

02109500 WACCAMAW RIVER AT FREELAND, NC

LOCATION.--Lat 34°05'42", long 78°32'54", Brunswick County, Hydrologic Unit 03040206, on left bank 150 ft downstream of New Britton bridge on State Highway 130, 1 mi southwest of Freeland, 7 mi downstream of Juniper Creek, and 117 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--680 mi².

PERIOD OF RECORD.--July 1939 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above NGVD of 1929. Prior to July 15, 1943, nonrecording gage 150 ft upstream at same datum. Auxiliary nonrecording gage 3.3 mi downstream of base gage Oct. 7, 1949, to July 14, 1952. Since July 15, 1952, auxiliary water-stage recorder at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 9, 19, 28, and Oct. 4-14, 1954.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452	1,520	379	907	694	2,170	275	206	56	11	32	2,820
2	405	1,630	357	818	701	2,140	261	222	48	12	30	2,850
3	355	1,670	333	757	712	2,100	243	271	39	11	77	2,720
4	308	1,640	315	706	733	2,070	228	376	37	15	114	2,600
5	263	1,600	323	661	761	2,030	212	457	33	57	114	2,430
6	227	1,540	340	623	777	e1,990	196	502	31	83	122	2,250
7	196	1,480	361	587	779	e1,900	182	497	30	65	139	2,120
8	213	e1,400	371	549	776	e1,800	166	452	52	41	122	e2,000
9	405	e1,300	375	516	763	e1,650	151	403	57	30	96	e2,020
10	527	e1,280	384	493	747	1,560	138	364	50	24	73	e2,100
11	e600	1,190	446	477	731	1,450	124	331	46	19	53	e2,600
12	e700	1,100	528	459	735	1,330	114	306	39	17	44	e3,200
13	e720	1,020	592	438	794	1,210	116	284	33	18	341	e3,400
14	e640	931	677	421	909	1,080	144	265	28	16	700	3,240
15	492	828	830	402	1,180	957	165	246	24	14	1,290	2,980
16	440	748	1,050	381	1,470	870	173	228	20	12	2,070	2,800
17	389	677	e1,250	361	1,780	815	165	212	18	9.6	2,610	2,610
18	359	615	1,510	342	2,180	784	152	195	17	8.6	3,030	2,460
19	345	568	1,640	326	2,450	750	138	175	16	8.3	3,420	2,260
20	329	557	1,750	310	2,610	711	133	152	14	8.1	3,600	2,030
21	308	553	1,800	295	2,680	677	161	131	13	7.8	3,560	1,810
22	282	546	1,780	280	2,650	638	207	118	12	8.0	3,350	1,630
23	256	534	1,720	266	2,560	597	242	103	12	7.5	3,080	1,500
24	232	520	1,660	253	2,410	549	264	89	10	7.5	2,810	1,380
25	219	497	1,590	242	2,240	501	275	75	8.8	31	2,600	1,260
26	217	471	1,520	251	2,110	449	271	63	8.2	69	2,480	1,100
27	222	445	1,430	356	2,080	405	262	52	8.1	48	2,480	1,010
28	238	429	1,340	488	2,090	373	258	45	9.9	37	2,410	932
29	562	413	1,240	579	2,150	341	244	38	10	29	2,510	864
30	932	397	1,110	632	---	312	218	35	10	26	2,650	819
31	1,290	---	1,000	677	---	291	---	53	---	24	2,660	---
TOTAL	13,123	28,099	30,001	14,853	43,252	34,500	5,878	6,946	790.0	774.4	48,667	63,795
MEAN	423	937	968	479	1,491	1,113	196	224	26.3	25.0	1,570	2,126
MAX	1,290	1,670	1,800	907	2,680	2,170	275	502	57	83	3,600	3,400
MIN	196	397	315	242	694	291	114	35	8.1	7.5	30	819
CFSM	0.62	1.38	1.42	0.70	2.19	1.64	0.29	0.33	0.04	0.04	2.31	3.13
IN.	0.72	1.54	1.64	0.81	2.37	1.89	0.32	0.38	0.04	0.04	2.66	3.49

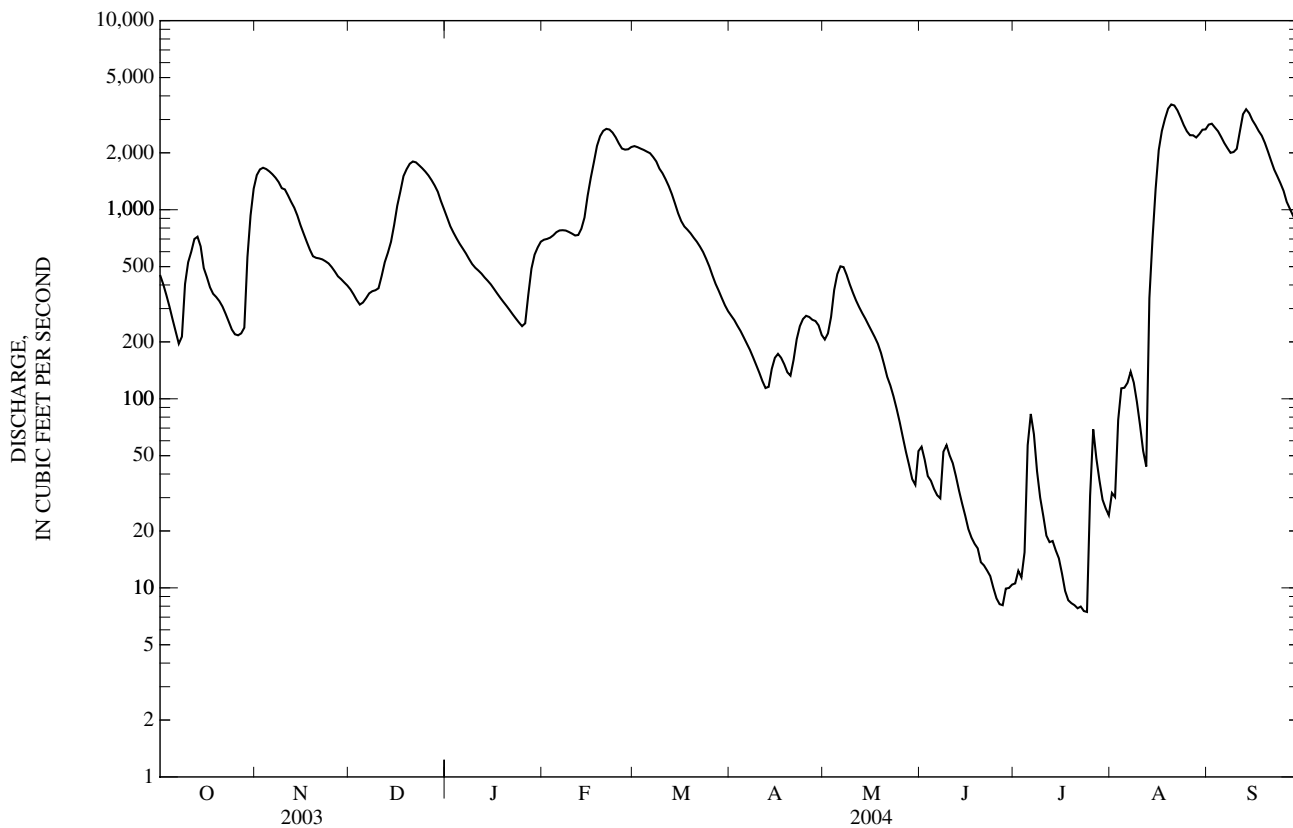
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	516	353	485	1,015	1,360	1,425	966	374	307	500	657	848
MAX	5,778	2,332	3,080	3,722	5,574	5,319	2,895	3,586	1,474	3,040	2,740	8,449
(WY)	(2000)	(1978)	(1949)	(1993)	(1998)	(1983)	(1973)	(1999)	(1969)	(1961)	(1981)	(1999)
MIN	1.14	0.54	3.53	20.6	44.6	219	108	16.2	5.51	2.27	7.59	0.31
(WY)	(1941)	(1955)	(1955)	(1955)	(1941)	(1955)	(2002)	(2002)	(1952)	(2002)	(1954)	(1954)

02109500 WACCAMAW RIVER AT FREELAND, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	364,036		290,678.4		731	
ANNUAL MEAN	997		794		86.2	
HIGHEST ANNUAL MEAN					1,572	1999
LOWEST ANNUAL MEAN					86.2	2002
HIGHEST DAILY MEAN	4,310	Apr 14	3,600	Aug 20	30,600	Sep 21, 1999
LOWEST DAILY MEAN	153	Sep 17	7.5	Jul 23	0.10	Aug 30, 1954
ANNUAL SEVEN-DAY MINIMUM	213	Sep 12	8.0	Jul 18	0.10	Oct 4, 1954
MAXIMUM PEAK FLOW			3,640	Aug 20	31,200	Sep 21, 1999
MAXIMUM PEAK STAGE			14.53	Aug 20	19.30	Sep 21, 1999
INSTANTANEOUS LOW FLOW			7.0	Jul 23	0.10*	Aug 30, 1954
ANNUAL RUNOFF (CFSM)	1.47		1.17		1.08	
ANNUAL RUNOFF (INCHES)	19.91		15.90		14.61	
10 PERCENT EXCEEDS	1,880		2,240		1,910	
50 PERCENT EXCEEDS	667		434		356	
90 PERCENT EXCEEDS	308		25		27	

* See REMARKS.
e Estimated.



02111000 YADKIN RIVER AT PATTERSON, NC

LOCATION.--Lat 35°59'27", long 81°33'30", Caldwell County, Hydrologic Unit 03040101, on left bank 200 ft upstream from bridge on State Highway 268, 0.4 mi upstream from Warrior Creek, 0.5 mi south of Patterson, 2.0 mi downstream of Walnut Branch, and at mile 416.

DRAINAGE AREA.--28.8 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1303: 1940(m), 1947-48(M). WSP 1553: 1948(P). WDR NC-80-1: 1975(P), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,211.47 ft above NGVD of 1929. Prior to Feb. 9, 1940, nonrecording gage at present site, at datum 1,212.47 ft. Feb. 9, 1940, to Oct. 20, 1970, recording gage at present site, at datum 1,212.47 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge, for period of record, from rating curve extended above 1,400 ft³/s on basis of computation of peak flow over dam 1 mi upstream at gage heights 4.58, 6.60, 7.70, and 12.70 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	36	64	54	39	47	50	43	37	56	30	38
2	40	36	59	53	39	47	45	47	34	76	29	210
3	40	36	57	53	74	46	42	44	32	65	29	112
4	40	35	62	52	59	45	41	41	63	59	27	66
5	39	40	66	55	52	44	39	39	43	55	26	50
6	38	56	62	51	182	49	38	38	37	47	26	45
7	38	47	58	48	170	45	38	36	35	44	24	231
8	39	42	56	48	102	44	38	34	35	42	24	1,400
9	45	39	54	48	80	43	37	44	34	39	23	444
10	46	38	115	47	71	42	36	36	47	38	23	219
11	41	38	137	45	66	41	36	34	45	39	33	146
12	39	37	97	45	67	41	78	34	37	41	42	111
13	38	36	83	45	63	40	178	40	43	36	33	91
14	40	35	87	44	60	40	130	37	41	34	27	83
15	40	36	79	44	61	41	85	34	126	33	26	75
16	37	35	75	43	58	51	69	39	370	32	25	69
17	37	35	99	43	54	44	61	66	159	33	24	205
18	37	36	89	50	53	47	55	58	108	41	30	217
19	36	509	81	44	52	45	52	46	80	34	26	136
20	35	192	73	42	51	42	50	46	66	31	49	104
21	36	116	67	42	51	42	48	40	86	30	28	88
22	35	89	64	41	49	40	45	51	253	29	26	78
23	35	76	63	40	48	39	44	88	111	29	26	71
24	35	78	75	40	48	39	43	78	82	28	111	67
25	35	68	65	43	46	38	42	53	82	65	57	63
26	39	62	63	43	47	38	62	47	89	41	41	60
27	81	59	60	42	49	38	50	44	69	39	37	62
28	44	81	58	40	49	38	43	40	64	40	49	265
29	40	76	58	41	48	37	41	38	58	32	44	127
30	38	69	61	41	---	41	41	37	53	34	38	95
31	37	---	55	40	---	59	---	44	---	33	38	---
TOTAL	1,242	2,168	2,242	1,407	1,888	1,333	1,657	1,396	2,419	1,275	1,071	5,028
MEAN	40.1	72.3	72.3	45.4	65.1	43.0	55.2	45.0	80.6	41.1	34.5	168
MAX	81	509	137	55	182	59	178	88	370	76	111	1,400
MIN	35	35	54	40	39	37	36	34	32	28	23	38
CFSM	1.39	2.51	2.51	1.58	2.26	1.49	1.92	1.56	2.80	1.43	1.20	5.82
IN.	1.60	2.80	2.90	1.82	2.44	1.72	2.14	1.80	3.12	1.65	1.38	6.49

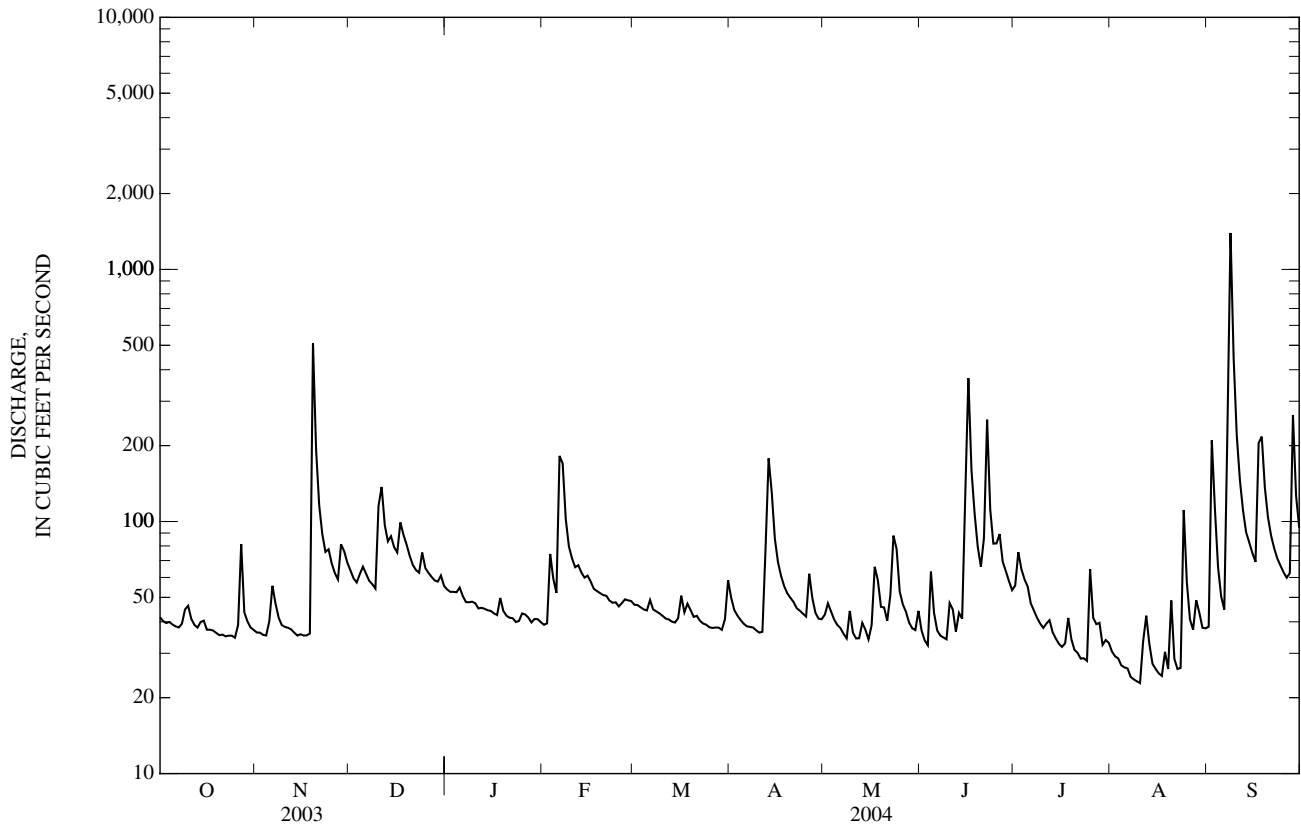
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	35.5	40.9	45.3	50.6	60.7	72.1	69.0	53.7	48.9	40.0	44.2	37.4
MAX	149	140	98.8	132	143	160	164	125	132	122	194	168
(WY)	(1991)	(1978)	(1974)	(1946)	(1960)	(1993)	(1980)	(1973)	(2003)	(2003)	(1940)	(2004)
MIN	8.45	9.07	11.8	11.4	17.4	23.7	26.5	16.5	13.0	9.04	6.69	6.95
(WY)	(1955)	(1982)	(1956)	(1956)	(2001)	(1988)	(1981)	(2001)	(2002)	(1988)	(2002)	(1954)

02111000 YADKIN RIVER AT PATTERSON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	30,113		23,126		49.8	
ANNUAL MEAN	82.5		63.2		78.6	
HIGHEST ANNUAL MEAN					21.0	2003
LOWEST ANNUAL MEAN					21.0	2001
HIGHEST DAILY MEAN	509	Nov 19	1,400	Sep 8	2,130	Aug 13, 1940
LOWEST DAILY MEAN	28	Jan 27	23	Aug 9	3.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	29	Jan 22	25	Aug 4	4.1	Sep 7, 2002
MAXIMUM PEAK FLOW			2,660	Sep 8	16200*	Aug 13, 1940
MAXIMUM PEAK STAGE			6.90	Sep 8	12.70	Aug 13, 1940
INSTANTANEOUS LOW FLOW			21	Aug 11	3.0	May 15, 1940
ANNUAL RUNOFF (CFSM)	2.86		2.19		1.73	
ANNUAL RUNOFF (INCHES)	38.90		29.87		23.49	
10 PERCENT EXCEEDS	150		89		88	
50 PERCENT EXCEEDS	64		44		37	
90 PERCENT EXCEEDS	35		34		16	

* See REMARKS.



02111000 YADKIN RIVER AT PATTERSON, NC—Continued

PRECIPITATION RECORDS

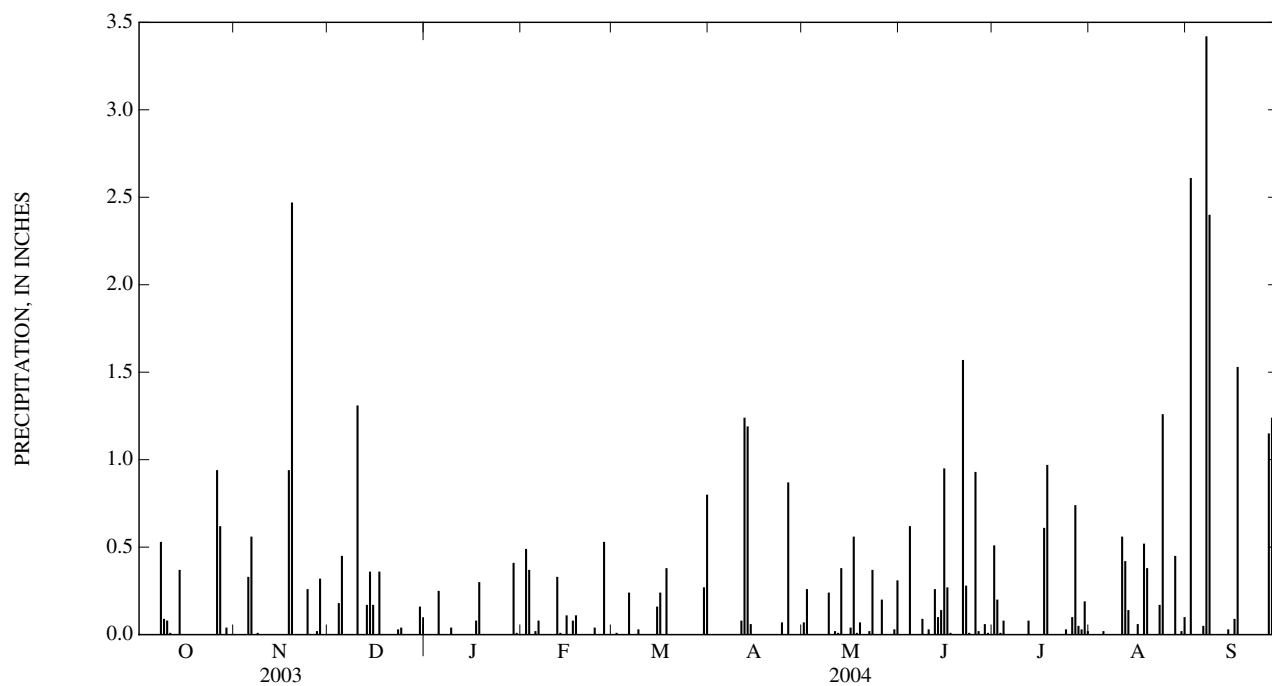
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.51	0.00	0.00
2	0.00	0.00	0.00	0.00	0.49	0.01	0.00	0.26	0.00	0.20	0.00	2.61
3	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.01	0.00	0.00
4	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.62	0.08	0.00	0.00
5	0.00	0.33	0.45	0.25	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00
6	0.00	0.56	0.00	0.00	0.08	0.24	0.00	0.00	0.00	0.00	0.00	0.05
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42
8	0.53	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	2.40
9	0.09	0.00	0.00	0.04	0.00	0.03	0.00	0.24	0.00	0.00	0.00	0.00
10	0.08	0.00	1.31	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
11	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.02	0.00	0.00	0.56	0.00
12	0.00	0.00	0.00	0.00	0.33	0.00	1.24	0.01	0.26	0.08	0.42	0.00
13	0.00	0.00	0.17	0.00	0.01	0.00	1.19	0.38	0.10	0.00	0.14	0.00
14	0.37	0.00	0.36	0.00	0.00	0.00	0.06	0.00	0.14	0.00	0.00	0.03
15	0.00	0.00	0.17	0.00	0.11	0.16	0.00	0.00	0.95	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.04	0.27	0.00	0.06	0.09
17	0.00	0.00	0.36	0.08	0.08	0.00	0.00	0.56	0.01	0.61	0.00	1.53
18	0.00	0.94	0.00	0.30	0.11	0.38	0.00	0.01	0.00	0.97	0.52	0.00
19	0.00	2.47	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.38	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.28	0.00	0.00	0.00
23	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.37	0.01	0.00	0.17	0.00
24	0.00	0.26	0.04	0.00	0.04	0.00	0.07	0.00	0.00	0.03	1.26	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00
26	0.94	0.00	0.00	0.00	0.00	0.00	0.87	0.20	0.02	0.10	0.00	0.00
27	0.62	0.02	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.74	0.00	1.15
28	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.45	1.24
29	0.04	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00
30	0.00	0.00	0.16	0.01	---	0.27	0.00	0.03	0.00	0.19	0.02	0.00
31	0.00	---	0.00	0.00	---	0.80	---	0.31	---	0.02	0.10	---
TOTAL	2.68	4.91	3.23	1.09	2.17	2.13	3.51	2.59	5.35	3.62	4.10	12.52



361210081333001 TRIPLETT RAINGAGE

LOCATION.--Lat 36°12'28", long 81°33'34", Watauga County, Hydrologic Unit 03040101, 60 ft west of Secondary Road 1570, 0.3 mi north of Triplett, and 1.7 mi south of Blue Ridge Parkway.

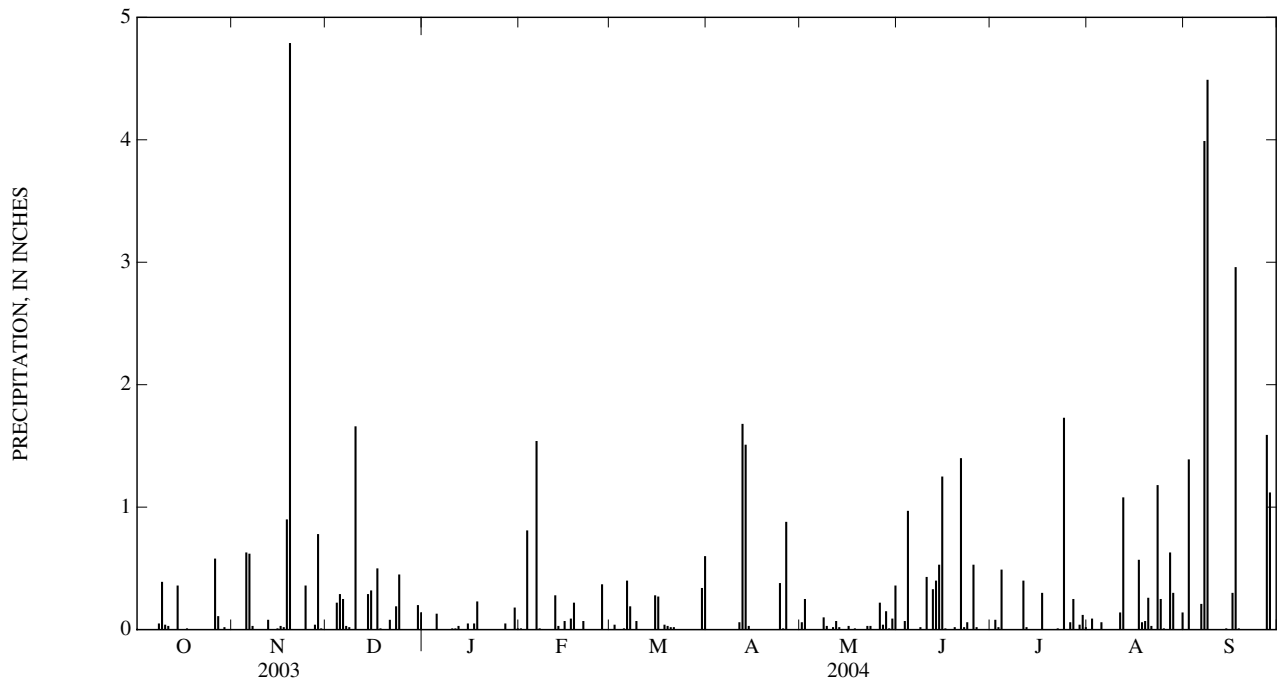
PERIOD OF RECORD.--October 1998 to current year.

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PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.25	0.00	0.08	0.09	1.39
3	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.07	0.02	0.00	0.00
4	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.97	0.49	0.00	0.00
5	0.00	0.63	0.29	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00
6	0.00	0.62	0.25	0.00	1.54	0.40	0.00	0.00	0.00	0.00	0.00	0.21
7	0.00	0.03	0.03	0.00	0.01	0.19	0.00	0.00	0.00	0.00	0.00	3.99
8	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.10	0.02	0.00	0.00	4.49
9	0.39	0.00	0.00	0.00	0.00	0.07	0.00	0.03	0.00	0.00	0.00	0.00
10	0.04	0.00	1.66	0.01	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00
11	0.03	0.00	0.00	0.01	0.00	0.00	0.06	0.02	0.00	0.40	0.14	0.00
12	0.00	0.08	0.00	0.03	0.28	0.00	1.68	0.07	0.33	0.02	1.08	0.00
13	0.00	0.00	0.00	0.00	0.03	0.00	1.51	0.02	0.40	0.00	0.00	0.00
14	0.36	0.00	0.29	0.00	0.00	0.00	0.03	0.00	0.53	0.00	0.00	0.01
15	0.00	0.01	0.32	0.05	0.07	0.28	0.00	0.00	1.25	0.00	0.00	0.00
16	0.00	0.03	0.00	0.00	0.00	0.27	0.00	0.03	0.01	0.00	0.00	0.30
17	0.01	0.02	0.50	0.05	0.09	0.00	0.00	0.00	0.00	0.30	0.57	2.96
18	0.00	0.90	0.01	0.23	0.22	0.04	0.00	0.01	0.00	0.00	0.06	0.01
19	0.00	4.79	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.07	0.00
20	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.26	0.00
21	0.00	0.00	0.08	0.00	0.07	0.02	0.00	0.00	1.40	0.00	0.03	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.01	0.00	0.00
23	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.03	0.06	0.00	1.18	0.00
24	0.00	0.36	0.45	0.00	0.00	0.00	0.38	0.00	0.00	1.73	0.25	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.53	0.00	0.01	0.00
26	0.58	0.00	0.00	0.00	0.00	0.00	0.88	0.22	0.02	0.06	0.00	0.00
27	0.11	0.04	0.00	0.05	0.37	0.00	0.00	0.04	0.00	0.25	0.63	1.59
28	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.30	1.12
29	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	0.00	0.00
30	0.00	0.00	0.20	0.18	---	0.34	0.00	0.09	0.00	0.12	0.00	0.00
31	0.00	---	0.00	0.01	---	0.60	---	0.36	---	0.02	0.14	---
TOTAL	1.59	8.30	4.51	0.75	3.50	2.31	4.55	1.52	6.06	3.54	4.87	16.07



0211180 ELK CREEK AT ELKVILLE, NC

LOCATION.--Lat 36°04'17", long 81°24'11", Wilkes County, Hydrologic Unit 03040101, on left bank 700 ft upstream from bridge on State Highway 268 in Elkville, and 3,400 ft upstream from mouth.

DRAINAGE AREA.--48.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

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

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,082.40 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS --Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 3,200 ft³/s on basis of contracted-opening computation. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Aug. 8-11.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 13, 1940, reached a stage of about 22 ft; discharge, about 70,000 ft³/s, on basis of several contracted-opening and slope-area measurements. A discharge of 6.0 ft³/s was measured Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	60	113	86	e58	83	88	78	51	59	33	47
2	75	60	104	84	e60	82	77	84	45	57	35	104
3	73	60	97	83	e112	81	73	82	42	64	33	90
4	73	60	101	83	e90	79	70	75	94	56	30	61
5	71	64	117	82	e78	78	68	72	66	58	29	52
6	68	88	108	76	e380	88	66	70	51	48	29	52
7	68	83	102	73	359	82	66	65	51	45	27	319
8	68	73	97	73	207	83	66	64	49	43	26	2,950
9	80	69	93	76	158	79	65	78	50	40	26	838
10	80	66	219	75	137	77	64	65	52	39	26	320
11	73	66	324	71	126	73	65	62	73	40	41	215
12	70	65	200	71	125	71	130	62	50	51	e62	165
13	68	66	159	71	120	68	415	69	61	40	e45	138
14	69	62	158	70	115	66	299	65	58	37	35	125
15	76	62	140	71	115	68	181	60	156	34	33	114
16	67	62	130	69	109	84	140	59	269	33	31	106
17	66	62	166	68	100	75	120	61	162	33	30	436
18	66	62	160	78	99	72	109	67	111	40	48	420
19	63	1,510	145	71	98	69	104	60	79	36	52	236
20	62	384	129	66	96	65	97	65	67	34	84	177
21	61	210	115	63	97	66	94	61	101	31	42	147
22	62	156	108	65	92	63	87	60	352	29	37	128
23	60	127	103	64	88	61	83	76	135	30	64	115
24	60	128	126	e61	87	60	81	75	99	30	97	105
25	59	116	116	e65	87	60	83	57	97	53	69	100
26	63	108	107	e64	87	61	111	53	118	42	48	95
27	109	103	101	e62	90	62	100	54	85	54	42	98
28	73	136	96	e60	88	62	82	50	75	41	45	566
29	66	146	93	e62	87	60	77	49	66	35	47	282
30	63	126	99	e62	---	65	76	48	61	44	39	198
31	61	---	89	e60	---	95	---	56	---	37	42	---
TOTAL	2,150	4,440	4,015	2,185	3,545	2,238	3,237	2,002	2,826	1,313	1,327	8,799
MEAN	69.4	148	130	70.5	122	72.2	108	64.6	94.2	42.4	42.8	293
MAX	109	1,510	324	86	380	95	415	84	352	64	97	2,950
MIN	59	60	89	60	58	60	64	48	42	29	26	47
CFSM	1.44	3.08	2.69	1.47	2.54	1.50	2.24	1.34	1.96	0.88	0.89	6.10
IN.	1.66	3.43	3.11	1.69	2.74	1.73	2.50	1.55	2.19	1.02	1.03	6.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

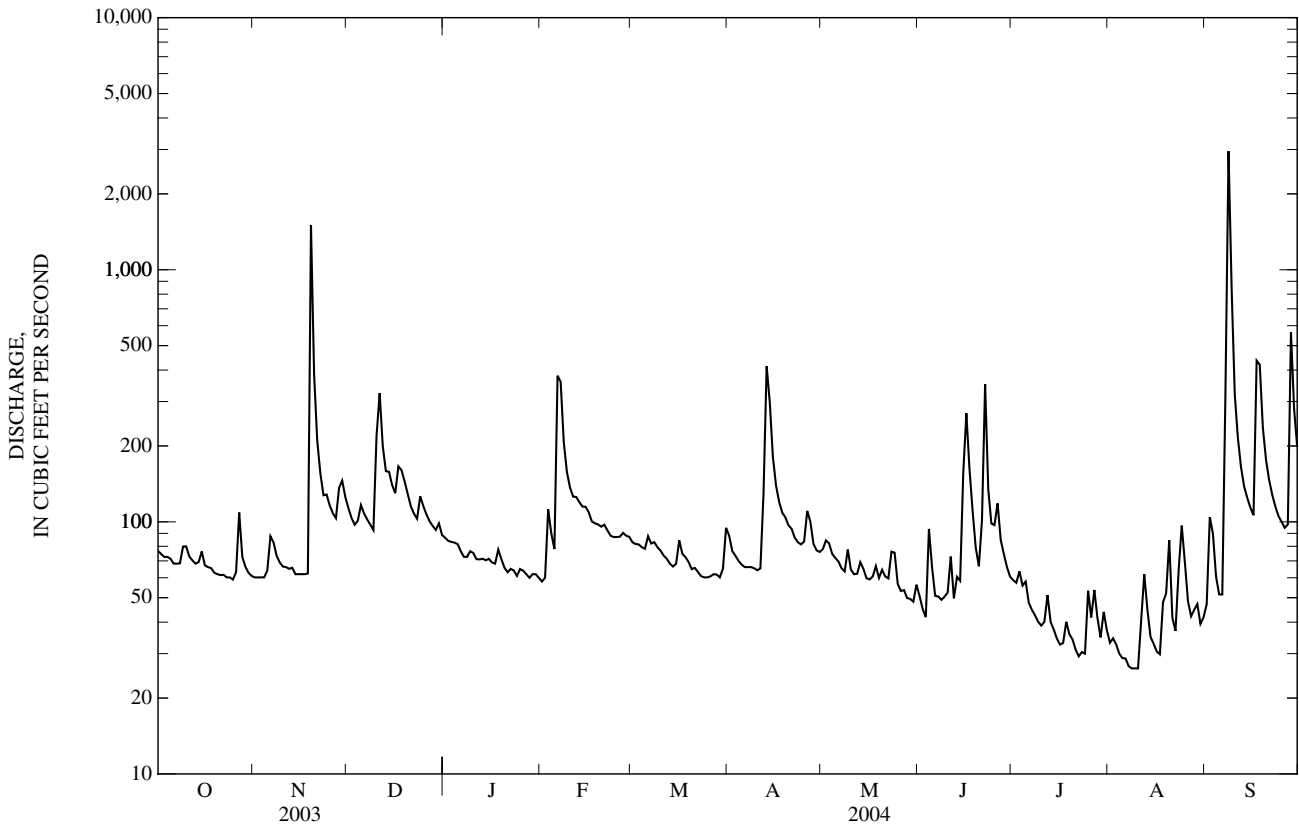
MEAN	72.5	88.5	87.3	102	119	146	141	108	102	70.6	80.0	69.2
MAX	298	365	193	323	250	317	379	291	300	211	384	293
(WY)	(1991)	(1978)	(1974)	(1995)	(1966)	(1993)	(1980)	(1973)	(2003)	(2003)	(1994)	(2004)
MIN	13.7	19.8	19.1	22.5	25.0	47.9	49.9	31.0	21.7	17.6	15.3	21.0
(WY)	(2001)	(1982)	(2001)	(1981)	(2001)	(1988)	(2001)	(2002)	(1988)	(1988)	(2002)	(2000)

02111180 ELK CREEK AT ELKVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	59,352		38,077		98.6	
ANNUAL MEAN	163		104		157	
HIGHEST ANNUAL MEAN					35.7	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,510	Nov 19	2,950	Sep 8	5,890	Aug 17, 1994
LOWEST DAILY MEAN	59	Jan 28	26	Aug 8	7.0	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	61	Oct 19	28	Aug 4	8.0	Sep 8, 2002
MAXIMUM PEAK FLOW			5,170	Nov 19	18,700*	Aug 17, 1994
MAXIMUM PEAK STAGE			6.56	Nov 19	12.02	Aug 17, 1994
INSTANTANEOUS LOW FLOW			26*	Aug 7	6.8*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	3.38		2.16		2.05	
ANNUAL RUNOFF (INCHES)	45.90		29.45		27.85	
10 PERCENT EXCEEDS	277		146		170	
50 PERCENT EXCEEDS	119		71		68	
90 PERCENT EXCEEDS	64		42		27	

* See REMARKS.

e Estimated.



02111180 ELK CREEK AT ELKVILLE, NC—Continued

PRECIPITATION RECORDS

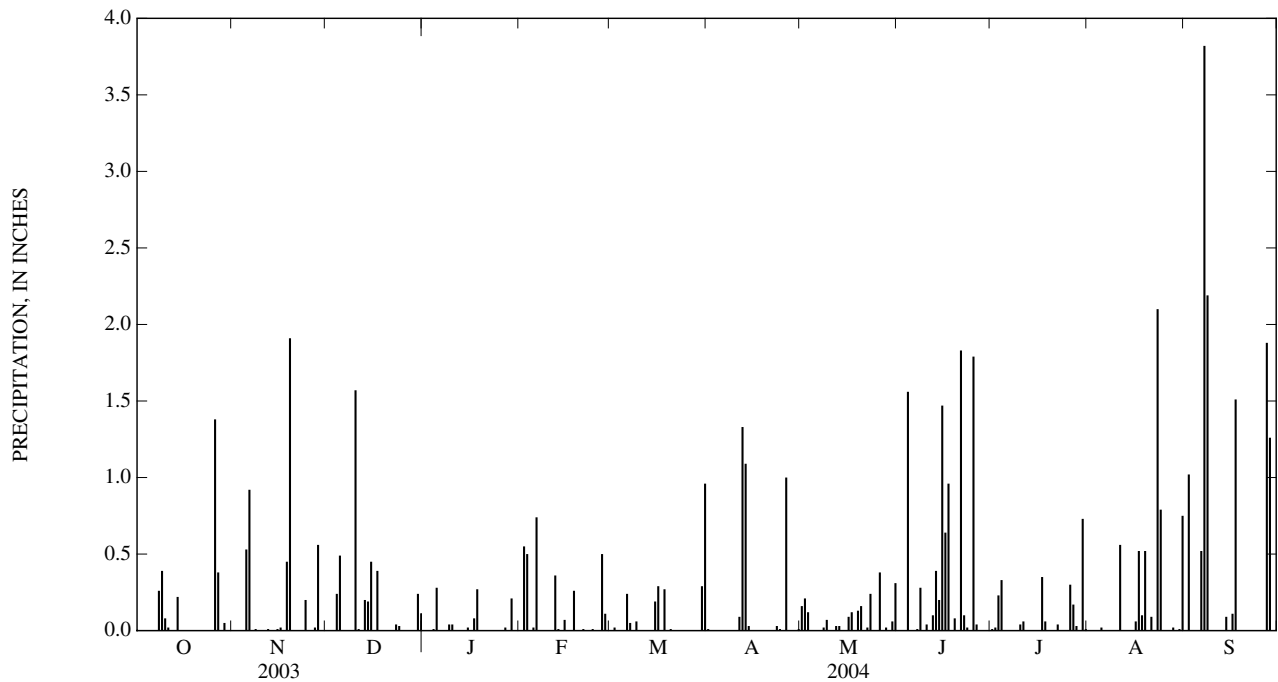
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.16	0.00	0.01	0.00	0.00
2	0.00	0.00	0.00	0.00	0.55	0.02	0.00	0.21	0.00	0.02	0.00	1.02
3	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.12	0.00	0.23	0.00	0.00
4	0.00	0.00	0.24	0.01	0.00	0.00	0.00	0.00	1.56	0.33	0.00	0.00
5	0.00	0.53	0.49	0.28	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00
6	0.00	0.92	0.00	0.00	0.74	0.24	0.00	0.00	0.00	0.00	0.00	0.52
7	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.01	0.00	0.00	3.82
8	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.28	0.00	0.00	2.19
9	0.39	0.00	0.00	0.04	0.00	0.06	0.00	0.07	0.00	0.00	0.00	0.00
10	0.08	0.00	1.57	0.04	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00
11	0.02	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.00	0.06	0.56	0.00
12	0.00	0.01	0.00	0.00	0.36	0.00	1.33	0.03	0.10	0.00	---	0.00
13	0.00	0.00	0.20	0.00	0.01	0.00	1.09	0.03	0.39	0.00	---	0.00
14	0.22	0.00	0.19	0.00	0.00	0.00	0.03	0.00	0.20	0.00	0.00	0.09
15	0.00	0.01	0.45	0.02	0.07	0.19	0.00	0.00	1.47	0.00	0.00	0.00
16	0.00	0.02	0.00	0.00	0.00	0.29	0.00	0.09	0.64	0.00	0.06	0.11
17	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.12	0.96	0.35	0.52	1.51
18	0.00	0.45	0.00	0.27	0.26	0.27	0.00	0.00	0.00	0.06	0.10	0.00
19	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.13	0.08	0.00	0.52	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.16	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.83	0.00	0.09	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.04	0.00	0.00
23	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.24	0.02	0.00	2.10	0.00
24	0.00	0.20	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.79	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.00	0.00
26	1.38	0.00	0.00	0.00	0.00	0.00	1.00	0.38	0.04	0.30	0.00	0.00
27	0.38	0.02	0.00	0.02	0.50	0.00	0.00	0.00	0.00	0.17	0.00	1.88
28	0.00	0.56	0.00	0.00	0.11	0.00	0.00	0.02	0.00	0.03	0.02	1.26
29	0.05	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.24	0.00	---	0.29	0.01	0.06	0.00	0.73	0.01	0.00
31	0.00	---	0.00	0.00	---	0.96	---	0.31	---	0.01	0.75	---
TOTAL	2.78	4.64	3.85	0.97	3.14	2.38	3.60	2.17	9.51	2.38	---	12.40



02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC

LOCATION.--Lat 36°08'01", long 81°13'36", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--367 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 1,000 ft above NGVD of 1929. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

REMARKS.--No estimated daily gage-heights. Records good. Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1,075.0 ft is 6,664,680,000 ft³ of which 4,878,720,000 ft³ is controlled flood storage.

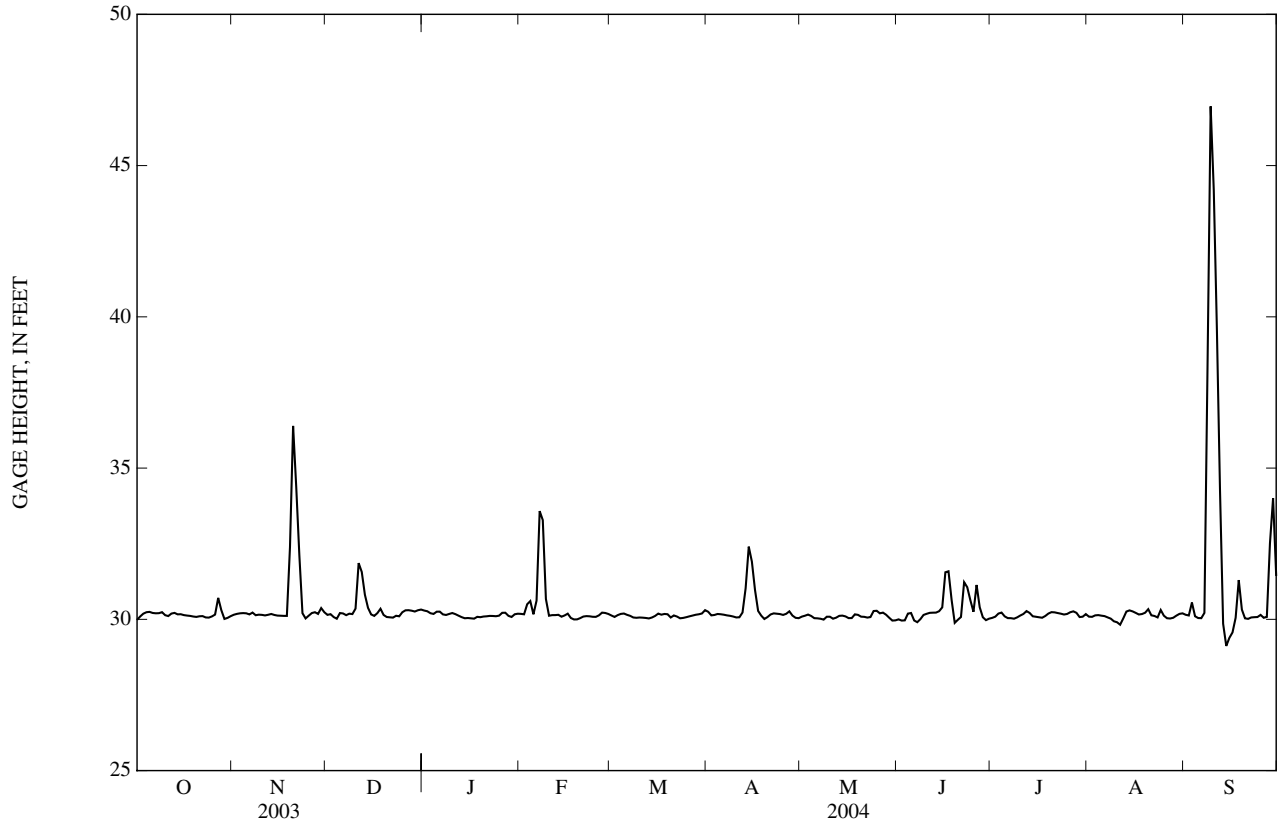
EXTREMES FOR PERIOD OF RECORD.--Maximum, 61.20 ft, Nov. 7, 1977; minimum, 19.85 ft, Nov. 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum, 47.91 ft, Sept. 9; minimum, 29.01 ft, Sept. 14.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.98	30.15	30.15	30.29	30.18	30.13	30.25	30.09	30.00	30.05	30.09	30.15
2	30.09	30.18	30.17	30.27	30.17	30.08	30.13	30.12	29.96	30.09	30.08	30.13
3	30.19	30.20	30.08	30.20	30.50	30.14	30.14	30.16	29.97	30.19	30.13	30.56
4	30.24	30.21	30.02	30.18	30.60	30.18	30.18	30.11	30.19	30.22	30.14	30.10
5	30.25	30.20	30.21	30.25	30.17	30.19	30.17	30.04	30.21	30.10	30.12	30.04
6	30.21	30.16	30.20	30.25	30.62	30.15	30.15	30.03	29.96	30.04	30.11	30.04
7	30.20	30.22	30.14	30.16	33.58	30.12	30.13	30.02	29.91	30.04	30.06	30.21
8	30.20	30.14	30.19	30.14	33.28	30.06	30.12	29.99	30.01	30.02	30.02	38.37
9	30.24	30.15	30.17	30.18	30.67	30.05	30.09	30.09	30.15	30.06	29.94	46.96
10	30.14	30.15	30.35	30.21	30.12	30.06	30.06	30.09	30.18	30.13	29.90	44.19
11	30.11	30.13	31.86	30.17	30.14	30.06	30.07	30.02	30.22	30.18	29.82	39.59
12	30.19	30.15	31.57	30.12	30.14	30.05	30.23	30.06	30.22	30.27	30.03	34.25
13	30.21	30.18	30.81	30.07	30.15	30.03	31.03	30.12	30.22	30.21	30.26	29.85
14	30.16	30.14	30.38	30.04	30.09	30.06	32.40	30.12	30.27	30.10	30.30	29.12
15	30.17	30.12	30.16	30.04	30.13	30.11	31.91	30.10	30.40	30.09	30.26	29.39
16	30.14	30.12	30.11	30.03	30.19	30.19	30.97	30.04	31.56	30.07	30.21	29.57
17	30.12	30.11	30.21	30.02	30.05	30.15	30.28	30.04	31.59	30.05	30.16	30.05
18	30.11	30.11	30.35	30.08	30.00	30.18	30.12	30.16	30.64	30.11	30.18	31.30
19	30.09	32.39	30.14	30.07	30.00	30.17	30.01	30.15	29.88	30.19	30.22	30.32
20	30.08	36.40	30.08	30.09	30.04	30.06	30.07	30.09	29.99	30.24	30.34	30.03
21	30.10	34.38	30.07	30.10	30.09	30.13	30.16	30.08	30.08	30.23	30.13	30.02
22	30.11	32.12	30.06	30.11	30.11	30.09	30.20	30.06	31.23	30.21	30.11	30.06
23	30.06	30.20	30.12	30.11	30.10	30.03	30.19	30.08	31.06	30.19	30.06	30.07
24	30.06	30.03	30.10	30.10	30.08	30.05	30.17	30.27	30.63	30.16	30.31	30.08
25	30.10	30.12	30.24	30.12	30.08	30.07	30.15	30.28	30.25	30.18	30.12	30.15
26	30.16	30.21	30.30	30.22	30.13	30.10	30.18	30.20	31.14	30.23	30.04	30.05
27	30.71	30.24	30.30	30.22	30.22	30.13	30.26	30.22	30.40	30.26	30.03	30.08
28	30.30	30.18	30.29	30.12	30.21	30.15	30.12	30.15	30.07	30.21	30.05	32.51
29	30.01	30.37	30.26	30.08	30.18	30.17	30.05	30.05	29.97	30.08	30.12	34.01
30	30.05	30.24	30.30	30.17	---	30.19	30.04	29.96	30.02	30.09	30.18	31.43
31	30.10	---	30.32	30.19	---	30.30	---	29.97	---	30.17	30.20	---
MEAN	30.16	30.66	30.31	30.14	30.41	30.12	30.33	30.10	30.35	30.14	30.12	32.09
MAX	30.71	36.40	31.86	30.29	33.58	30.30	32.40	30.28	31.59	30.27	30.34	46.96
MIN	29.98	30.03	30.02	30.02	30.00	30.03	30.01	29.96	29.88	30.02	29.82	29.12

02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC—Continued



02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC—Continued

PRECIPITATION RECORDS

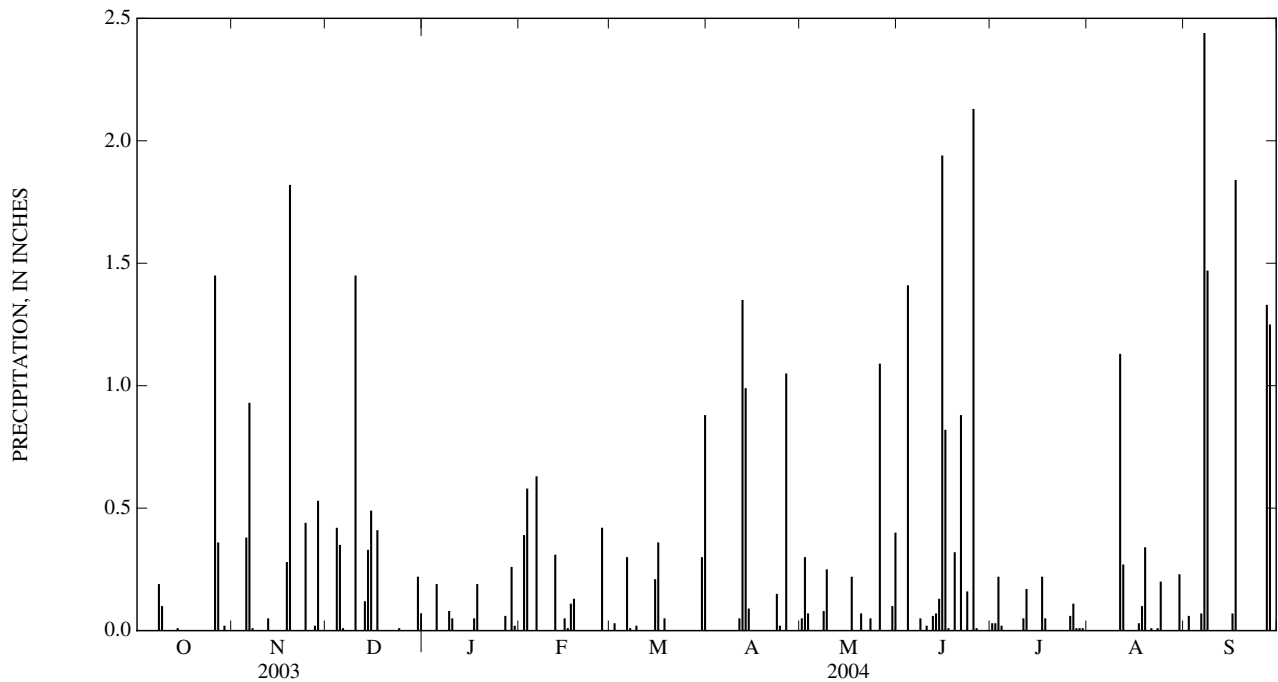
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.03	0.00	0.00
2	0.00	0.00	0.00	0.00	0.39	0.03	0.00	0.30	0.00	0.03	0.00	0.06
3	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.07	0.00	0.22	0.00	0.00
4	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	1.41	0.02	0.00	0.00
5	0.00	0.38	0.35	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.93	0.01	0.00	0.63	0.30	0.00	0.00	0.00	0.00	0.00	0.07
7	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	2.44
8	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.00	0.00	1.47
9	0.10	0.00	0.00	0.08	0.00	0.02	0.00	0.25	0.00	0.00	0.00	0.00
10	0.00	0.00	1.45	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	1.13	0.00
12	0.00	0.05	0.00	0.00	0.31	0.00	1.35	0.00	0.06	0.17	0.27	0.00
13	0.00	0.00	0.12	0.00	0.00	0.00	0.99	0.00	0.07	0.00	0.00	0.00
14	0.01	0.00	0.33	0.00	0.00	0.00	0.09	0.00	0.13	0.00	0.00	0.00
15	0.00	0.00	0.49	0.00	0.05	0.21	0.00	0.00	1.94	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.36	0.00	0.00	0.82	0.00	0.00	0.07
17	0.00	0.00	0.41	0.05	0.11	0.00	0.00	0.22	0.01	0.22	0.03	1.84
18	0.00	0.28	0.00	0.19	0.13	0.05	0.00	0.00	0.00	0.05	0.10	0.00
19	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.34	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.05	0.16	0.00	0.01	0.00
24	0.00	0.44	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.20	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13	0.00	0.00	0.00
26	1.45	0.00	0.00	0.00	0.00	0.00	1.05	1.09	0.01	0.06	0.00	0.00
27	0.36	0.02	0.00	0.06	0.42	0.00	0.00	0.00	0.00	0.11	0.00	1.33
28	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.25
29	0.02	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
30	0.00	0.00	0.22	0.02	---	0.30	0.00	0.10	0.00	0.01	0.23	0.00
31	0.00	---	0.00	0.00	---	0.88	---	0.40	---	0.00	0.00	---
TOTAL	2.13	4.46	3.81	0.90	2.63	2.16	3.70	2.68	8.01	0.99	2.32	8.53



361554081191701 WILBAR RAINGAGE

LOCATION.--Lat 36°17'27", long 81°20'07", Wilkes County, Hydrologic Unit 03040101, 300 ft northeast of NC Hwy 16, 2.0 mi northwest of Wilbar, and 4.0 mi southwest of Horse Gap.

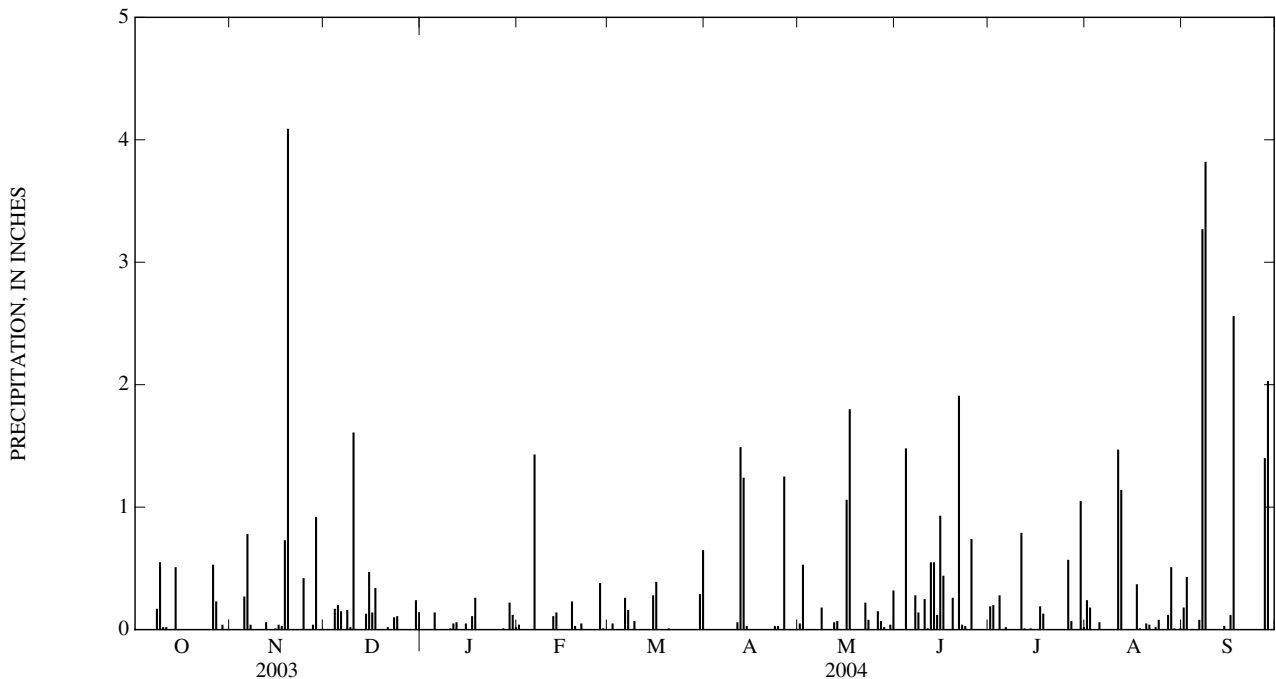
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.05	0.00	0.19	0.24	0.18
2	0.00	0.00	0.00	0.00	---	0.05	0.00	0.53	0.00	0.20	0.18	0.43
3	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	1.48	0.28	0.00	0.00
5	0.00	0.27	0.20	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
6	0.00	0.78	0.15	0.00	1.43	0.26	0.00	0.00	0.00	0.02	0.00	0.08
7	0.00	0.04	0.00	0.00	0.00	0.16	0.00	0.00	0.28	0.00	0.00	3.27
8	0.17	0.00	0.16	0.00	0.00	0.00	0.00	0.18	0.14	0.00	0.00	3.82
9	0.55	0.00	0.02	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
10	0.02	0.00	1.61	0.01	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
11	0.02	0.00	0.00	0.05	0.00	0.00	0.06	0.00	0.01	0.79	1.47	0.00
12	0.00	0.06	0.00	0.06	0.11	0.00	1.49	0.06	0.55	0.01	1.14	0.00
13	0.00	0.00	0.00	0.00	0.14	0.00	1.24	0.07	0.55	0.00	0.00	0.00
14	0.51	0.00	0.13	0.00	0.00	0.00	0.03	0.00	0.12	0.01	0.00	0.03
15	0.00	0.01	0.47	0.05	0.00	0.28	0.00	0.00	0.93	0.00	0.00	0.00
16	0.00	0.04	0.14	0.00	0.00	0.39	0.00	1.06	0.44	0.00	0.00	0.12
17	0.00	0.03	0.34	0.11	0.00	0.00	0.00	1.80	0.00	0.19	0.37	2.56
18	0.00	0.73	0.00	0.26	0.23	0.00	0.00	0.00	0.00	0.13	0.01	0.00
19	0.00	4.09	0.00	0.00	0.03	0.00	0.00	0.00	0.26	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.05	0.00
21	0.00	0.00	0.02	0.00	0.05	0.00	0.00	0.00	1.91	0.00	0.04	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.04	0.00	0.00	0.00
23	0.00	0.00	0.10	0.00	0.00	0.00	0.03	0.08	0.03	0.00	0.02	0.00
24	0.00	0.42	0.11	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.08	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00
26	0.53	0.00	0.00	0.00	0.00	0.00	1.25	0.15	0.00	0.57	0.00	0.00
27	0.23	0.04	0.00	0.01	0.38	0.00	0.00	0.07	0.00	0.07	0.12	1.40
28	0.00	0.92	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.51	2.03
29	0.04	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
30	0.00	0.00	0.24	0.12	---	0.29	0.00	0.04	0.00	1.05	0.00	0.00
31	0.00	---	0.00	0.02	---	0.65	---	0.32	---	0.02	0.01	---
TOTAL	2.07	7.43	3.86	1.05	---	2.16	4.13	4.65	7.73	3.53	4.31	13.92



02111500 REDDIES RIVER AT NORTH WILKESBORO, NC

LOCATION.--Lat 36°10'30", long 81°10'08", Wilkes County, Hydrologic Unit 03040101, on left bank 550 ft upstream from bridge on Secondary Road 1517, 1.4 mi upstream from North Wilkesboro municipal dam, 1.2 mi northwest of North Wilkesboro, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--89.2 mi².

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

REVISED RECORDS.--WSP 1433: 1944. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 978.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Slight diurnal fluctuation at low flow during growing season. Maximum discharge for period of record, from rating curve extended above 5,600 ft³/s on basis of computation of peak flow over dam; gage height: 22.02 ft. Minimum discharge for period of record also occurred Aug. 15, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	124	181	146	e120	137	139	120	93	113	83	84
2	145	122	171	144	120	137	125	123	82	123	110	74
3	141	122	165	144	222	135	120	124	79	126	91	80
4	143	120	175	144	175	134	116	112	195	118	78	69
5	140	134	210	146	149	132	112	109	133	116	75	65
6	137	172	190	141	574	144	110	106	100	99	76	64
7	135	161	178	135	431	134	111	103	103	94	70	163
8	136	137	171	134	243	132	111	100	113	90	68	e2,210
9	154	127	166	138	199	129	109	115	110	87	66	634
10	159	124	385	135	183	129	106	101	94	85	65	277
11	143	124	422	131	174	126	107	97	96	112	65	194
12	137	124	254	133	173	126	196	111	98	144	147	158
13	134	121	214	132	167	126	411	108	180	106	121	139
14	139	113	240	130	161	125	296	102	136	88	84	130
15	148	115	221	131	160	126	195	96	149	82	79	124
16	131	116	208	126	158	155	167	96	378	79	75	117
17	128	117	255	126	149	137	153	102	196	79	73	626
18	128	115	227	145	150	128	144	120	140	94	81	465
19	126	e1,360	207	132	149	128	138	101	129	119	70	244
20	124	438	189	126	148	126	134	105	120	84	67	187
21	124	271	177	126	148	127	131	95	195	78	65	163
22	122	222	173	126	142	126	125	96	361	80	65	146
23	120	198	170	125	139	123	122	119	189	79	65	135
24	119	199	177	126	140	124	122	106	152	74	77	127
25	118	187	164	e126	136	123	118	92	270	72	75	122
26	123	175	158	e124	137	122	169	90	269	75	68	117
27	269	169	155	e124	145	120	154	94	157	91	64	118
28	149	231	152	e122	143	120	128	89	139	99	76	1,070
29	138	222	151	e122	140	116	120	87	126	77	91	352
30	129	193	159	e122	---	119	118	88	118	118	73	238
31	125	---	148	e120	---	158	---	109	---	95	71	---
TOTAL	4,316	6,153	6,213	4,082	5,275	4,024	4,407	3,216	4,700	2,976	2,434	8,692
MEAN	139	205	200	132	182	130	147	104	157	96.0	78.5	290
MAX	269	1,360	422	146	574	158	411	124	378	144	147	2,210
MIN	118	113	148	120	120	116	106	87	79	72	64	64
CFSM	1.56	2.30	2.25	1.48	2.04	1.46	1.65	1.16	1.76	1.08	0.88	3.25
IN.	1.80	2.57	2.59	1.70	2.20	1.68	1.84	1.34	1.96	1.24	1.02	3.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

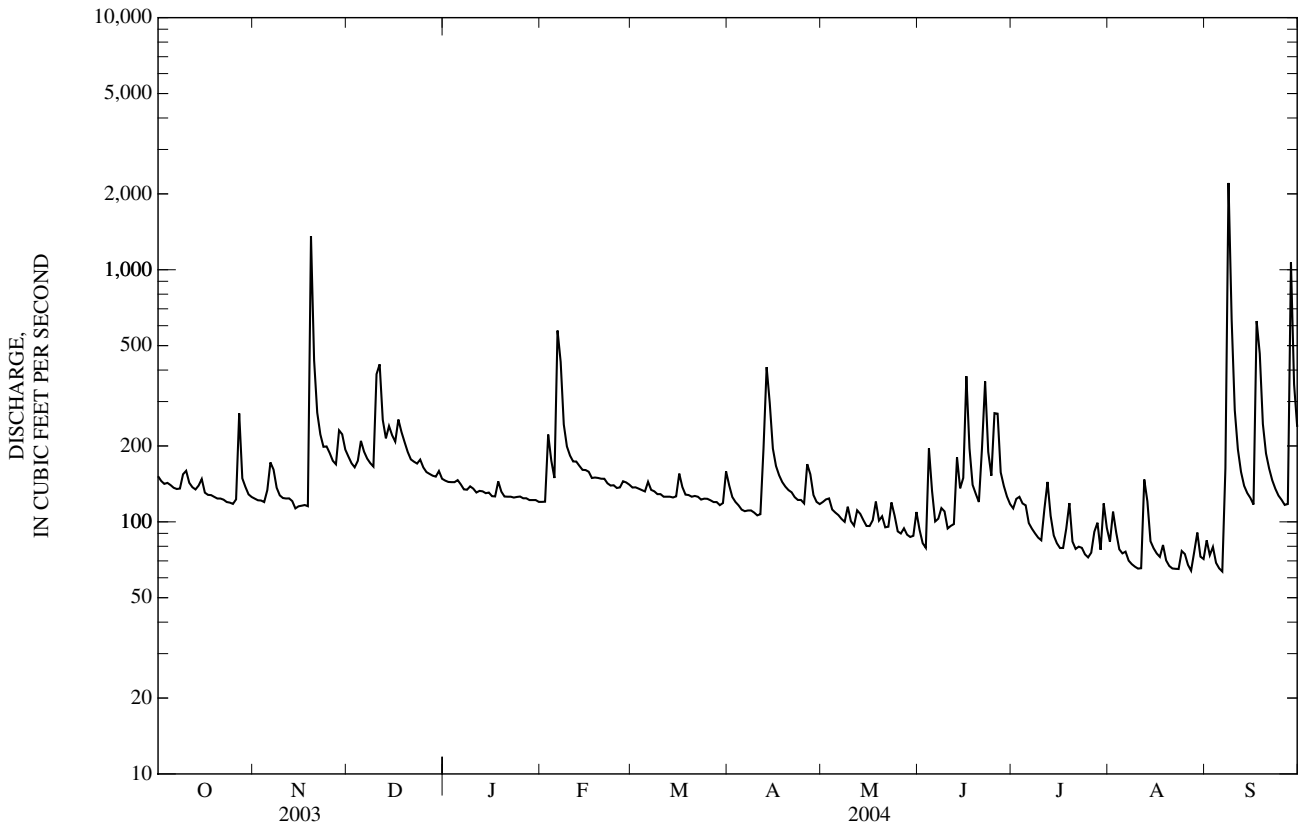
MEAN	107	118	128	141	162	190	191	156	145	121	122	115
MAX	309	379	273	374	386	405	536	353	412	335	587	479
(WY)	(1977)	(1978)	(1974)	(1996)	(1960)	(1975)	(1980)	(1973)	(1976)	(1941)	(1940)	(1945)
MIN	33.1	35.1	44.3	44.5	50.6	77.3	68.1	47.8	32.8	31.8	22.1	30.8
(WY)	(2001)	(2002)	(2001)	(1956)	(2001)	(1940)	(2001)	(2002)	(2002)	(2002)	(2002)	(1954)

02111500 REDDIES RIVER AT NORTH WILKESBORO, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	80,614		56,488		141	
ANNUAL MEAN	221		154		51.0	
HIGHEST ANNUAL MEAN					218	1973
LOWEST ANNUAL MEAN					51.0	2002
HIGHEST DAILY MEAN	1,690	Apr 10	2,210	Sep 8	7,600	Aug 14, 1940
LOWEST DAILY MEAN	77	Feb 13	64	Aug 27	13	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	80	Feb 8	68	Aug 21	14	Aug 8, 2002
MAXIMUM PEAK FLOW			4,010	Nov 19	27,000*	Aug 14, 1940
MAXIMUM PEAK STAGE			8.74	Nov 19	22.02	Aug 14, 1940
INSTANTANEOUS LOW FLOW			60	Sep 6	12*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	2.48		1.73		1.58	
ANNUAL RUNOFF (INCHES)	33.62		23.56		21.51	
10 PERCENT EXCEEDS	355		207		229	
50 PERCENT EXCEEDS	175		126		110	
90 PERCENT EXCEEDS	107		80		57	

* See REMARKS.

e Estimated.



02112000 YADKIN RIVER AT WILKESBORO, NC

LOCATION.--Lat 36°09'09", long 81°08'44", Wilkes County, Hydrologic Unit 03040101, on right bank 150 ft upstream from bridge on State Highways 18 and 268 between North Wilkesboro and Wilkesboro, 150 ft downstream of Reddies River, 0.5 mi northeast of Wilkesboro, and 382 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--504 mi².

PERIOD OF RECORD.--April 1903 to June 1909, October 1920 to current year. Prior to October 1928, published as "Yadkin River at North Wilkesboro".

REVISED RECORDS.--WSP 1433: 1903-09, 1922, 1925-26(M), 1930, 1932, 1934, 1946-48(M), drainage area at former site. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft above NGVD of 1929. Apr. 10, 1903, to June 30, 1909, and Oct. 17, 1920, to Apr. 10, 1929, nonrecording gage at site 1.2 mi downstream at different datum. Apr. 11, 1929, to Jan. 9, 1930, nonrecording gage at present site and datum. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1962 by W. Kerr Scott Reservoir (station 02111391) 5.5 mi upstream. Prior to regulation maximum discharge: 160,000 ft³/s, Aug. 14, 1940, from rating curve extended above 20,000 ft³/s on basis of slope-area measurement of peak flow; gage height: 37.6 ft, from floodmarks. Minimum discharge for current water year also occurred Sept. 27.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 34.5 ft present site and datum, from floodmark; discharge, 116,000 ft³/s, from rating curve extended as explained above.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	699	672	912	851	649	858	964	650	534	746	576	629
2	681	674	897	837	644	802	792	721	476	766	503	618
3	677	669	909	864	958	747	667	712	400	776	451	944
4	732	672	895	790	1,170	741	660	698	835	865	431	853
5	749	784	959	802	1,130	769	651	645	888	832	425	563
6	751	925	1,040	846	1,650	860	645	612	682	682	426	482
7	727	946	898	818	1,570	840	645	611	559	629	403	656
8	728	829	844	736	2,900	777	646	595	517	597	430	3,140
9	904	692	884	745	2,750	732	642	605	512	513	415	3,620
10	922	736	1,290	756	1,150	724	622	631	515	516	391	5,920
11	808	681	1,830	775	1,000	735	607	581	535	551	521	5,950
12	677	678	2,000	775	1,000	717	851	523	531	680	581	5,580
13	757	672	1,760	755	996	664	1,370	563	629	687	551	3,330
14	770	659	1,620	718	971	637	1,790	585	616	589	494	959
15	784	659	1,340	709	903	645	1,880	575	757	491	486	699
16	731	660	1,190	710	949	802	1,720	574	1,820	481	475	753
17	707	656	1,310	701	960	797	1,270	593	2,140	488	471	1,710
18	709	651	1,380	748	868	682	909	639	2,130	524	494	2,560
19	706	2,230	1,290	744	840	772	846	634	1,110	586	469	2,210
20	677	2,490	1,080	672	825	707	719	627	748	501	660	1,170
21	659	3,510	999	670	814	646	711	582	812	483	574	982
22	685	3,040	927	668	811	701	717	580	1,730	483	450	879
23	676	1,990	937	663	802	651	727	595	1,810	483	465	858
24	644	1,010	932	671	817	620	725	600	1,360	476	856	792
25	608	958	868	674	784	620	717	630	1,480	486	953	749
26	661	837	865	669	758	615	834	656	1,820	526	609	811
27	1,420	911	873	712	820	621	930	614	1,580	568	467	651
28	1,320	1,050	874	732	864	622	794	586	1,060	667	463	1,960
29	854	1,100	864	616	862	616	710	588	841	602	505	2,620
30	673	1,110	869	624	---	634	644	568	742	539	512	3,150
31	668	---	855	653	---	853	---	575	---	567	568	---
TOTAL	23,764	33,151	34,191	22,704	31,215	22,207	26,405	18,948	30,169	18,380	16,075	55,798
MEAN	767	1,105	1,103	732	1,076	716	880	611	1,006	593	519	1,860
MAX	1,420	3,510	2,000	864	2,900	860	1,880	721	2,140	865	953	5,950
MIN	608	651	844	616	644	615	607	523	400	476	391	482
†	+5	+1	+5	-4	-1	+5	-9	-2	+1	+4	0	+22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004,* BY WATER YEAR (WY)

	659	713	751	865	963	1,158	1,129	922	877	675	707	620
MEAN	659	713	751	865	963	1,158	1,129	922	877	675	707	620
MAX	1,834	2,571	1,619	1,965	1,832	2,346	2,868	1,954	2,075	1,720	2,239	1,948
(WY)	(1991)	(1978)	(1974)	(1995)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(1994)	(1979)
MIN	191	209	249	302	335	441	435	300	248	234	194	209
(WY)	(1989)	(2002)	(2001)	(2001)	(2001)	(1988)	(1986)	(2001)	(2002)	(1988)	(1988)	(1988)

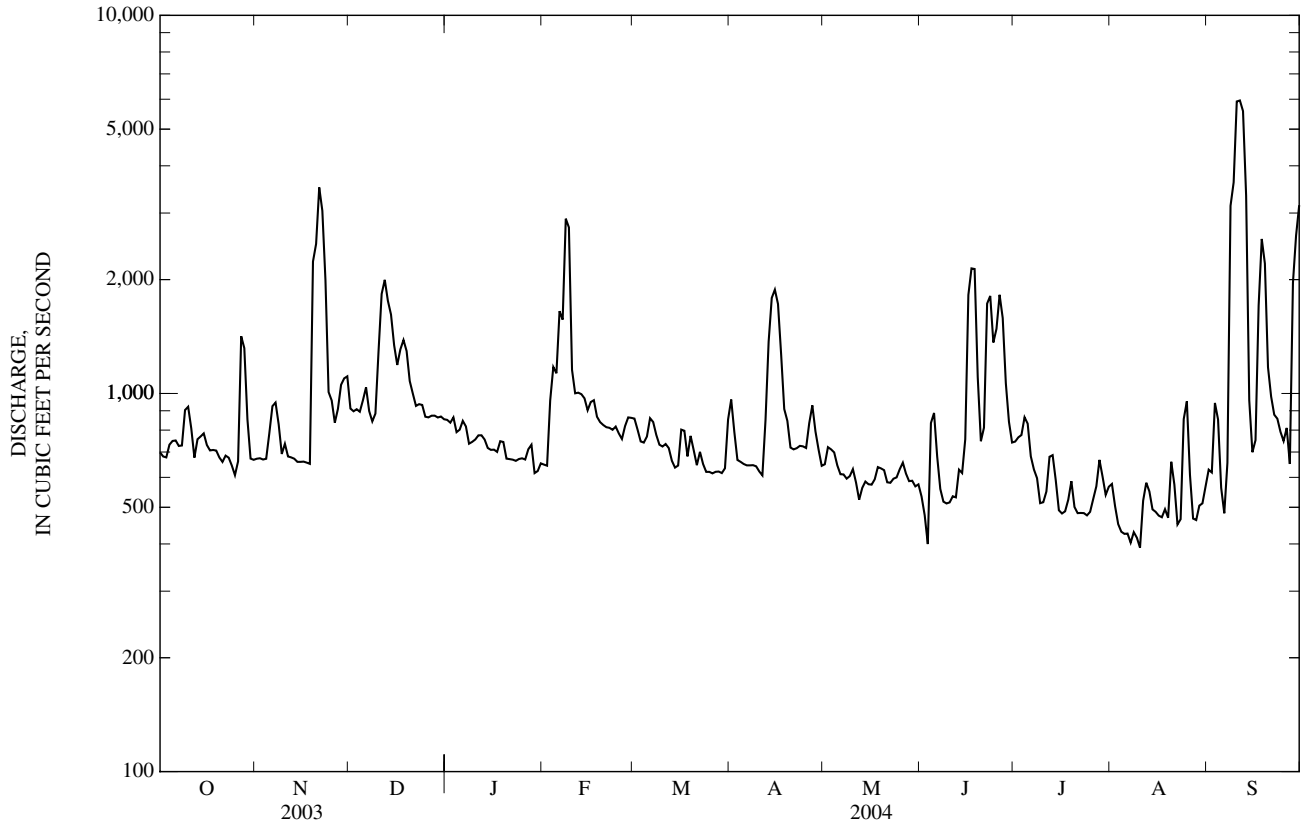
02112000 YADKIN RIVER AT WILKESBORO, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004*	
ANNUAL TOTAL	467,185		333,007		836 (UNADJUSTED)	
ANNUAL MEAN	1,280		910		1,220 1973	
HIGHEST ANNUAL MEAN					336 2002	
LOWEST ANNUAL MEAN					7,990 Aug 10, 1970	
HIGHEST DAILY MEAN	5,320	Jun 19	5,950	Sep 11	114 Dec 8, 1970	
LOWEST DAILY MEAN	403	Feb 3	391	Aug 10	141 Sep 8, 2002	
ANNUAL SEVEN-DAY MINIMUM	433	Jan 29	417	Aug 4	12,800 Apr 10, 1983	
MAXIMUM PEAK FLOW			6,050	Sep 9	16.22 Apr 10, 1983	
MAXIMUM PEAK STAGE			8.35	Sep 9	54 Oct 21, 1997	
INSTANTANEOUS LOW FLOW			348*	Jun 4		
10 PERCENT EXCEEDS	2,400		1,440		1,420	
50 PERCENT EXCEEDS	999		724		641	
90 PERCENT EXCEEDS	611		516		333	

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers.

* Regulated period only (1963-2004). See REMARKS.

‡ Adjusted for change in contents in W. Kerr Scott Reservoir.



02112120 ROARING RIVER NEAR ROARING RIVER, NC

LOCATION.--Lat 36°15'01", long 81°02'40", Wilkes County, Hydrologic Unit 03040101, on left bank at downstream end of old bridge pier, 800 ft upstream from bridge on Secondary Road 1990, 3.8 mi northwest of Roaring River, and 4.1 mi upstream from mouth.

DRAINAGE AREA.--128 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements water years 1925, 1947, 1949-56, 1963. April 1964 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 964.85 ft above NGVD of 1929. Prior to May 1, 1964, nonrecording gage on downstream side of bridge at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from rating curve extended above 2,400 ft³/s on basis of slope-area measurement of peak flow at gage heights 22.54, 14.40, and 10.83 ft. Minimum discharge for period of record also occurred Aug. 15, 24, 25, Sept. 11, 12, 13, 14, 2002. Minimum discharge for current water year also occurred Sept. 6.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 28 ft; estimated discharge, 45,000 ft³/s. The flood of August 1940 reached a stage of about 24 ft; estimated discharge, 31,000 ft³/s, from information by local residents and rating curve extended as explained above. A discharge of 24 ft³/s was measured Sept. 18, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	135	235	185	144	167	192	157	114	134	110	101
2	147	132	216	183	142	168	163	158	98	158	289	91
3	141	129	205	181	335	165	155	160	92	214	147	102
4	143	129	221	179	248	161	148	145	244	223	115	89
5	143	168	289	187	201	160	142	141	163	172	106	85
6	137	274	255	181	828	181	140	136	118	144	103	83
7	136	253	233	169	634	166	140	130	113	130	90	205
8	137	183	218	167	358	166	140	125	118	120	87	3,050
9	154	162	208	e167	285	161	137	133	154	112	85	1,020
10	158	153	454	e164	255	160	132	122	132	108	84	448
11	141	149	569	e164	236	154	134	118	137	106	159	308
12	137	147	362	e160	233	153	278	140	148	152	215	245
13	135	141	304	e160	221	147	502	128	228	154	181	209
14	141	128	356	e160	209	147	414	128	171	108	122	196
15	165	132	331	e157	207	150	274	121	169	97	112	185
16	134	134	307	154	203	215	227	117	261	91	104	173
17	132	135	374	154	191	182	204	125	223	96	99	1,320
18	132	132	328	182	191	167	190	137	160	198	128	873
19	129	1,930	294	164	189	162	179	122	135	223	100	449
20	127	656	266	152	186	154	173	116	129	146	92	331
21	127	403	245	150	186	155	168	116	201	112	93	277
22	124	316	237	150	178	148	160	113	394	104	88	239
23	121	271	230	147	175	146	155	134	203	103	86	213
24	121	268	230	147	175	144	153	126	166	95	105	195
25	121	260	213	e144	171	144	147	109	252	90	126	184
26	130	228	203	e144	170	143	235	108	444	92	96	173
27	394	214	199	e144	178	141	217	115	210	117	90	170
28	185	301	196	e144	173	141	169	108	176	150	93	1,590
29	159	311	192	150	168	138	158	105	155	101	105	517
30	144	259	205	154	---	147	153	102	142	143	93	355
31	138	---	189	150	---	204	---	135	---	141	105	---
TOTAL	4,588	8,233	8,364	4,994	7,070	4,937	5,779	3,930	5,450	4,134	3,608	13,476
MEAN	148	274	270	161	244	159	193	127	182	133	116	449
MAX	394	1,930	569	187	828	215	502	160	444	223	289	3,050
MIN	121	128	189	144	142	138	132	102	92	90	84	83
CFSM	1.16	2.14	2.11	1.26	1.90	1.24	1.50	0.99	1.42	1.04	0.91	3.51
IN.	1.33	2.39	2.43	1.45	2.05	1.43	1.68	1.14	1.58	1.20	1.05	3.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

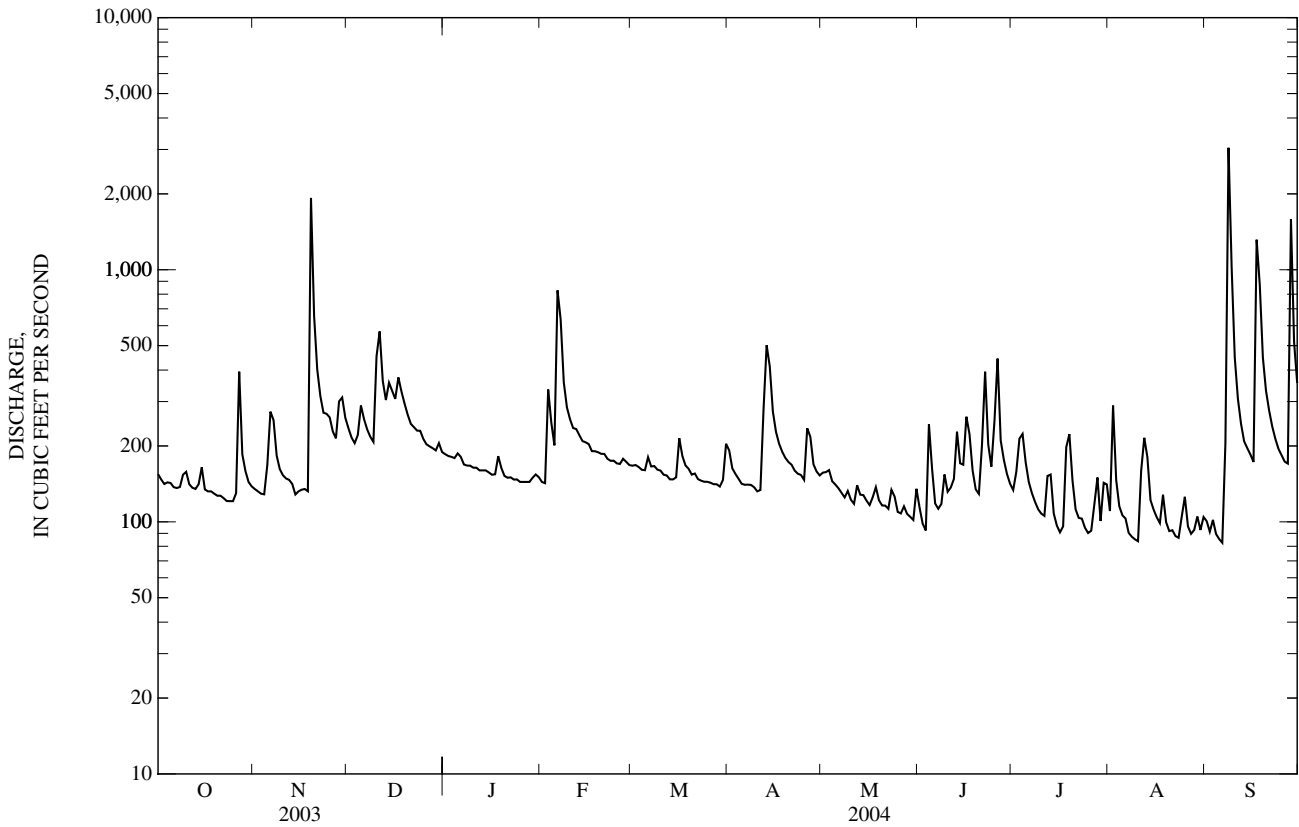
MEAN	146	157	170	197	217	255	250	205	190	153	146	145
MAX	422	426	389	406	413	610	637	430	453	349	461	449
(WY)	(1977)	(1978)	(1997)	(1996)	(1990)	(1993)	(1980)	(1991)	(2003)	(1989)	(1994)	(2004)
MIN	42.0	46.9	59.2	70.2	67.4	97.4	100	66.2	39.5	48.3	23.6	48.2
(WY)	(2001)	(2002)	(2001)	(2001)	(2001)	(1988)	(1986)	(2002)	(2002)	(2002)	(2002)	(2001)

02112120 ROARING RIVER NEAR ROARING RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	96,532		74,563		186	
ANNUAL MEAN	264		204		69.8	
HIGHEST ANNUAL MEAN					269	1993
LOWEST ANNUAL MEAN					69.8	2002
HIGHEST DAILY MEAN	2,120	Apr 10	3,050	Sep 8	7,460	Aug 17, 1994
LOWEST DAILY MEAN	95	Feb 3	83	Sep 6	14	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	100	Jan 28	94	Aug 31	16	Aug 9, 2002
MAXIMUM PEAK FLOW			6,180	Nov 19	26,600*	Oct 17, 1975
MAXIMUM PEAK STAGE			10.17	Nov 19	22.54*	Oct 17, 1975
INSTANTANEOUS LOW FLOW			79*	Aug 11	14*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	2.07		1.59		1.46	
ANNUAL RUNOFF (INCHES)	28.05		21.67		19.78	
10 PERCENT EXCEEDS	394		290		307	
50 PERCENT EXCEEDS	213		155		141	
90 PERCENT EXCEEDS	124		105		74	

* See REMARKS.

e Estimated.



02112120 ROARING RIVER NEAR ROARING RIVER, NC—Continued

PRECIPITATION RECORDS

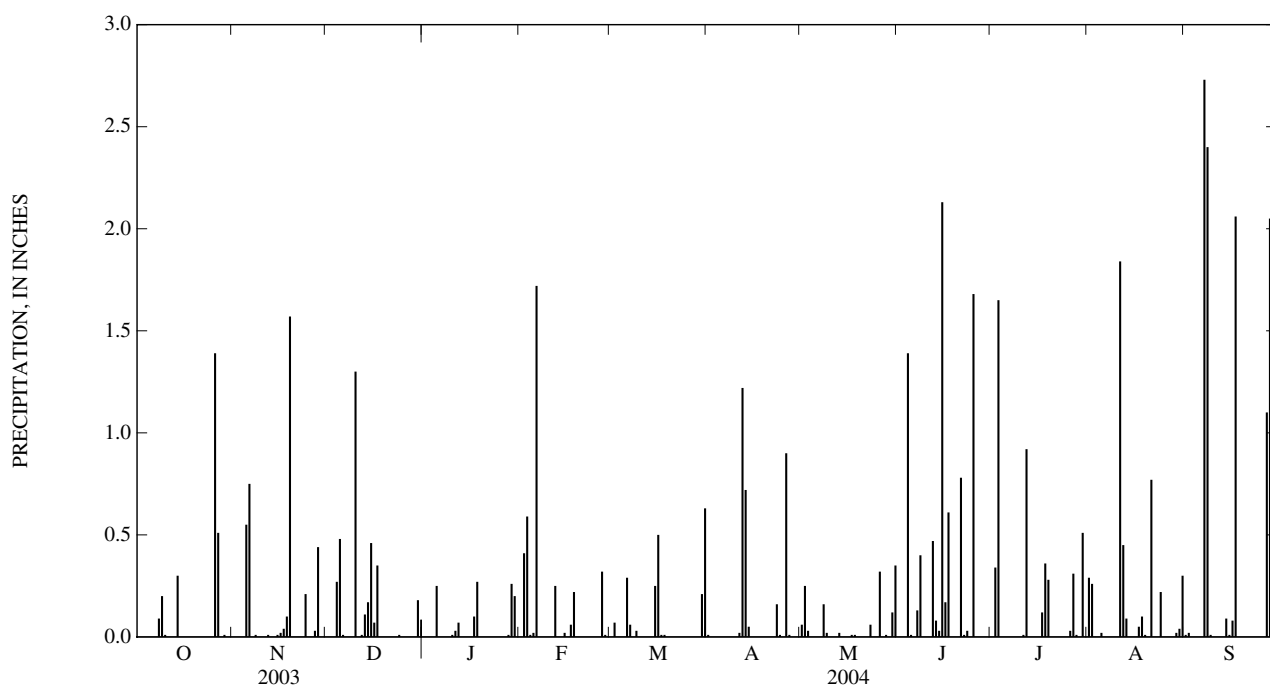
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Yadkin, Inc., the North Carolina Department of Environment and Natural Resources, and the U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

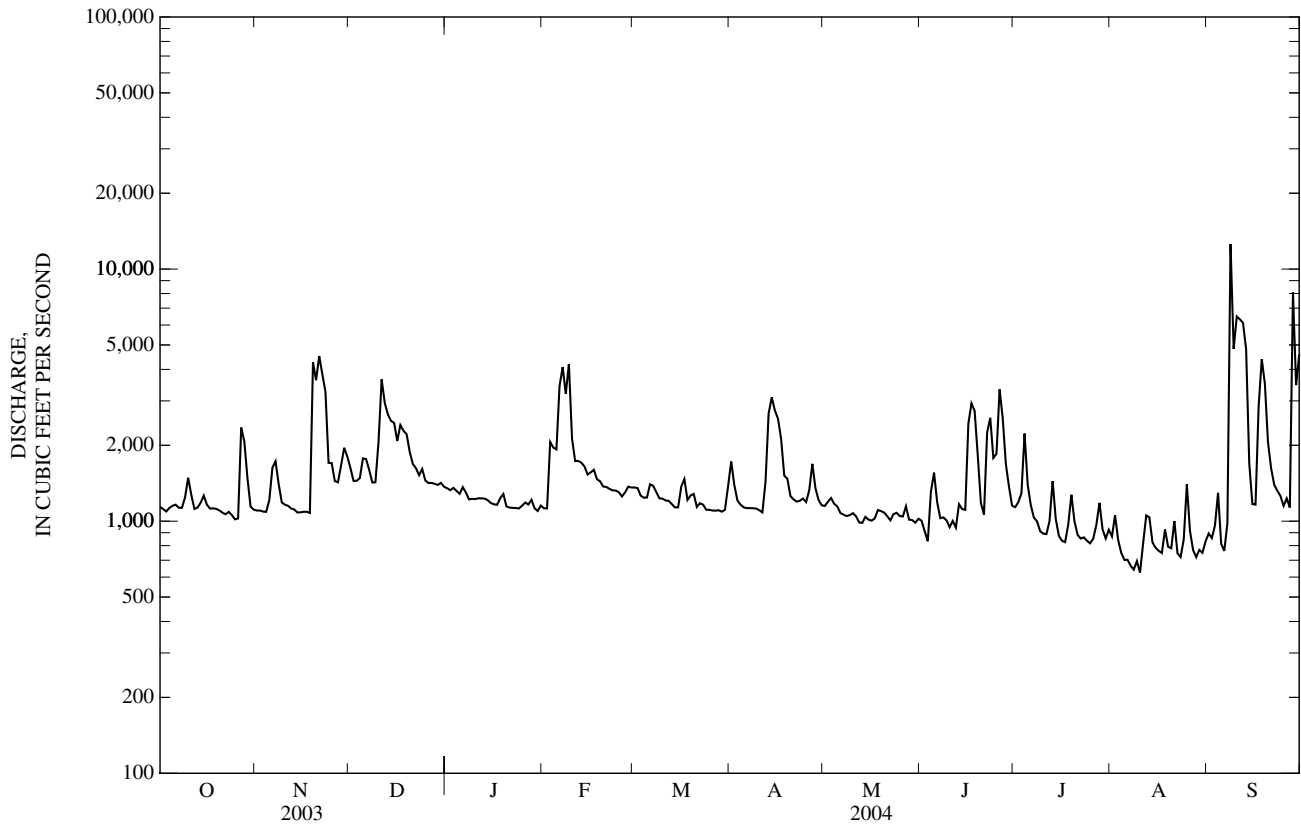
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.29	0.01
2	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.25	0.00	0.34	0.26	0.02
3	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.03	0.00	1.65	0.00	0.00
4	0.00	0.00	0.27	0.00	0.01	0.00	0.00	0.00	1.39	0.00	0.00	0.00
5	0.00	0.55	0.48	0.25	0.02	0.00	0.00	0.00	0.01	0.00	0.02	0.00
6	0.00	0.75	0.01	0.00	1.72	0.29	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.13	0.00	0.00	2.73
8	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.16	0.40	0.00	0.00	2.40
9	0.20	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.01
10	0.01	0.00	1.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.00	0.01	1.84	0.00
12	0.00	0.01	0.01	0.07	0.25	0.00	1.22	0.00	0.47	0.92	0.45	0.00
13	0.00	0.00	0.11	0.00	0.00	0.00	0.72	0.02	0.08	0.00	0.09	0.00
14	0.30	0.00	0.17	0.00	0.00	0.00	0.05	0.00	0.03	0.00	0.00	0.09
15	0.00	0.01	0.46	0.00	0.02	0.25	0.00	0.00	2.13	0.00	0.00	0.01
16	0.00	0.02	0.07	0.00	0.00	0.50	0.00	0.00	0.17	0.00	0.00	0.08
17	0.00	0.04	0.35	0.10	0.06	0.01	0.00	0.01	0.61	0.12	0.05	2.06
18	0.00	0.10	0.00	0.27	0.22	0.01	0.00	0.01	0.00	0.36	0.10	0.00
19	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.01	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.77	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.06	0.03	0.00	0.00	0.00
24	0.00	0.21	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.22	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	0.00	0.00	0.00
26	1.39	0.00	0.00	0.00	0.00	0.00	0.90	0.32	0.00	0.03	0.00	0.00
27	0.51	0.03	0.00	0.00	0.32	0.00	0.01	0.00	0.00	0.31	0.00	1.10
28	0.00	0.44	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00	2.05
29	0.01	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
30	0.00	0.00	0.18	0.20	---	0.21	0.00	0.12	0.00	0.51	0.04	0.00
31	0.00	---	0.00	0.00	---	0.63	---	0.35	---	0.00	0.30	---
TOTAL	2.51	3.74	3.42	1.20	3.63	2.06	3.10	1.42	7.92	4.54	4.46	10.56



02112250 YADKIN RIVER AT ELKIN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	731,405		549,236		1,358	
ANNUAL MEAN	2,004		1,501		1,951	
HIGHEST ANNUAL MEAN					508	1973
LOWEST ANNUAL MEAN					211	2002
HIGHEST DAILY MEAN	8,430	Apr 10	12,600	Sep 8	21,500	Aug 10, 1970
LOWEST DAILY MEAN	686	Feb 3	625	Aug 10	193	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	731	Jan 28	683	Aug 4	211	Sep 8, 2002
MAXIMUM PEAK FLOW			20,800	Sep 8	29,100	Aug 17, 1994
MAXIMUM PEAK STAGE			19.89	Sep 8	24.88*	Apr 10, 1983
INSTANTANEOUS LOW FLOW			620*	Aug 10	187*	Aug 9, 2002
10 PERCENT EXCEEDS	3,670		2,420		2,300	
50 PERCENT EXCEEDS	1,620		1,180		1,050	
90 PERCENT EXCEEDS	950		873		566	

* See REMARKS.
e Estimated.



02112360 MITCHELL RIVER NEAR STATE ROAD, NC

LOCATION.--Lat 36°18'42", long 80°48'25", Surry County, Hydrologic Unit 03040101, on right bank 280 ft upstream from bridge on Secondary Road 1001, 1.8 mi upstream from Grass Creek, and 3.3 mi east of State Road.

DRAINAGE AREA.--78.8 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-58, 1963. April 1964 to current year.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 927.12 ft above NGVD of 1929. Prior to Aug. 29, 1964, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900, about 18 ft in August 1940, from information by local resident; estimated discharge, 9,000 ft³/s. A discharge of 16 ft³/s was measured on Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	112	144	129	108	98	105	101	83	e102	78	63
2	115	108	135	129	107	99	96	106	e72	e110	222	61
3	112	107	131	128	235	97	94	100	71	e150	114	62
4	114	107	142	128	166	95	92	93	105	e160	89	60
5	113	126	202	132	138	95	89	91	99	e118	83	58
6	112	233	170	129	428	108	88	88	81	e100	80	57
7	110	175	153	121	330	99	89	86	152	e90	73	105
8	110	135	144	121	186	100	89	82	150	81	68	2,420
9	120	124	138	124	154	97	88	85	147	78	66	563
10	127	119	302	122	142	97	86	88	319	78	65	277
11	115	117	372	118	134	95	87	81	252	102	87	196
12	112	116	222	119	134	94	164	79	127	84	88	158
13	110	114	190	119	128	92	320	81	135	86	102	130
14	112	107	220	117	122	92	232	83	121	76	79	123
15	128	109	211	117	121	94	156	78	115	70	74	117
16	110	111	193	113	119	128	135	85	284	67	70	124
17	109	110	234	113	113	110	124	91	153	86	70	282
18	109	108	203	126	113	99	117	86	124	249	82	257
19	107	674	183	118	113	97	112	77	119	242	69	156
20	105	318	170	112	110	95	109	86	122	123	65	132
21	106	204	160	111	108	95	106	e88	127	97	62	120
22	104	171	156	111	104	92	102	e85	266	88	61	111
23	102	156	153	110	102	91	100	e100	141	86	61	117
24	102	159	152	110	103	91	101	e85	120	80	65	110
25	102	157	144	e114	100	91	96	e78	195	76	64	100
26	105	142	140	e113	100	90	133	e79	410	78	61	97
27	260	137	137	e113	106	90	130	e85	161	108	59	117
28	145	174	135	110	103	90	104	77	134	101	75	1,300
29	127	169	134	109	99	89	98	e75	118	79	112	325
30	118	149	140	114	---	93	96	72	107	85	75	208
31	114	---	132	112	---	119	---	88	---	92	71	---
TOTAL	3,657	4,848	5,442	3,662	4,126	3,012	3,538	2,659	4,610	3,222	2,490	8,006
MEAN	118	162	176	118	142	97.2	118	85.8	154	104	80.3	267
MAX	260	674	372	132	428	128	320	106	410	249	222	2,420
MIN	102	107	131	109	99	89	86	72	71	67	59	57
CFSM	1.50	2.05	2.23	1.50	1.81	1.23	1.50	1.09	1.95	1.32	1.02	3.39
IN.	1.73	2.29	2.57	1.73	1.95	1.42	1.67	1.26	2.18	1.52	1.18	3.78

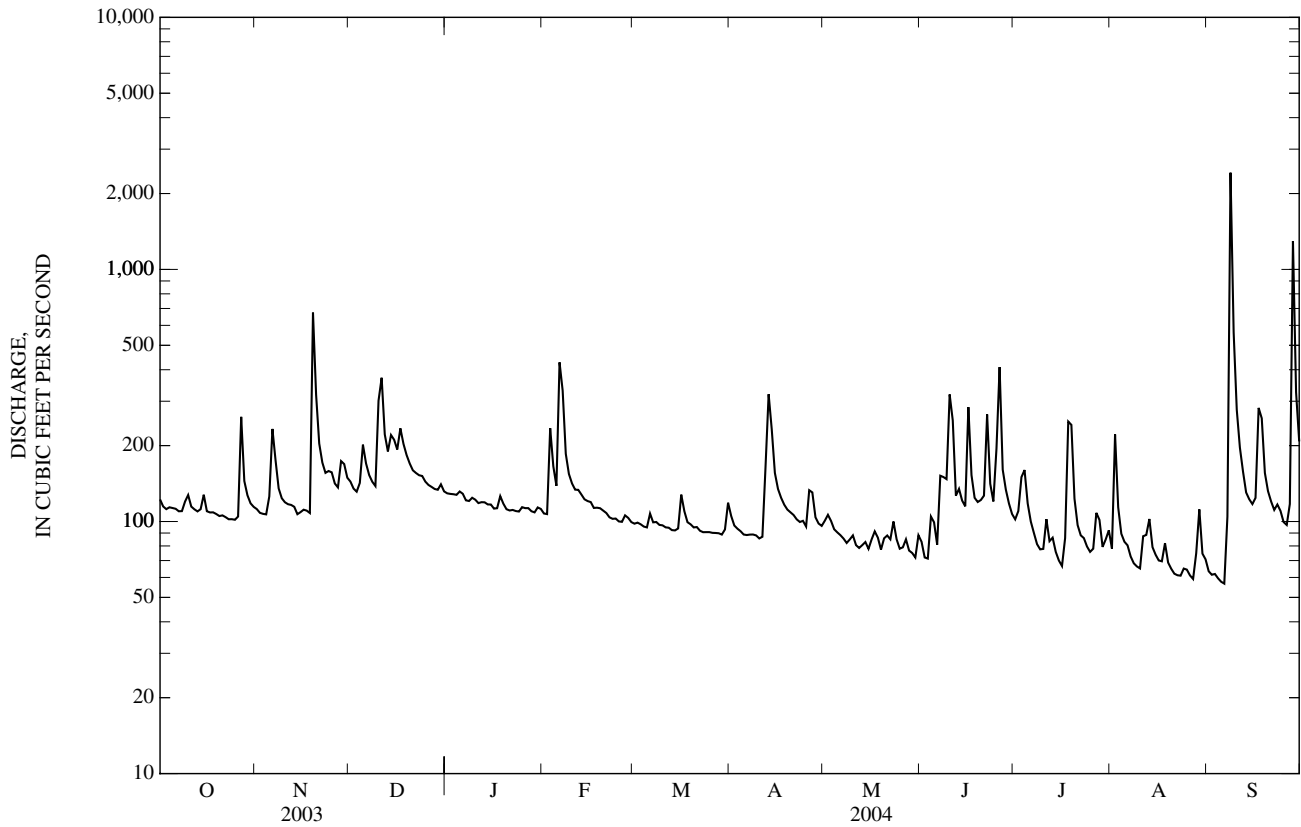
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	105	105	115	128	143	169	169	143	127	108	105	107
MAX	248	211	230	232	258	373	426	264	280	260	247	313
(WY)	(1991)	(1980)	(1974)	(1998)	(1966)	(1993)	(1983)	(1973)	(2003)	(2003)	(1970)	(1979)
MIN	32.7	32.0	47.0	48.3	54.2	72.8	69.1	52.0	31.0	35.9	24.6	38.6
(WY)	(2002)	(2002)	(1989)	(1981)	(2002)	(1981)	(1981)	(2002)	(2002)	(1986)	(2002)	(2001)

02112360 MITCHELL RIVER NEAR STATE ROAD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	70,003		49,272		127	
ANNUAL MEAN	192		135		51.5	
HIGHEST ANNUAL MEAN					182	2003
LOWEST ANNUAL MEAN					51.5	2002
HIGHEST DAILY MEAN	1,290	Apr 10	2,420	Sep 8	3,260	Aug 10, 1970
LOWEST DAILY MEAN	88	Feb 13	57	Sep 6	15	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	91	Feb 8	62	Aug 31	17	Sep 7, 2002
MAXIMUM PEAK FLOW			5,630	Sep 8	7,470	Sep 22, 1979
MAXIMUM PEAK STAGE			12.11	Sep 8	16.42	Sep 22, 1979
INSTANTANEOUS LOW FLOW			54	Sep 6	12	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.43		1.71		1.61	
ANNUAL RUNOFF (INCHES)	33.05		23.26		21.87	
10 PERCENT EXCEEDS	280		194		202	
50 PERCENT EXCEEDS	160		110		101	
90 PERCENT EXCEEDS	107		78		54	

e Estimated.



02113000 FISHER RIVER NEAR COPELAND, NC

LOCATION.--Lat 36°21'26", long 80°41'09", Surry County, Hydrologic Unit 03040101, on left bank 500 ft upstream from bridge on State Highway 268, 1 mi upstream from Cody Creek, and 2 mi northwest of Copeland.

DRAINAGE AREA.--128 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 1303: 1933(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 913 ft above NGVD of 1929, by barometer. Prior to Sept. 5, 1936, twice daily readings at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some irrigation diversions at times in the growing season. Maximum discharge for period of record, from rating curve extended above 7,500 ft³/s on basis of slope-area measurement of peak flow; gage height: 18.4 ft. Minimum discharge for period of record also occurred Sept. 13, 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	148	203	178	143	155	165	159	113	e135	111	67
2	160	147	188	177	140	156	146	166	92	136	340	64
3	155	145	181	177	482	155	141	154	86	141	194	64
4	157	143	192	177	287	154	138	139	181	160	133	63
5	157	154	359	182	208	152	130	134	180	152	116	62
6	152	384	283	189	974	169	127	129	117	117	112	59
7	149	309	231	172	719	160	130	125	107	106	96	71
8	149	202	210	170	317	153	130	120	222	99	90	4,230
9	157	176	199	175	251	148	130	152	333	93	86	866
10	175	166	654	174	230	149	125	159	159	92	82	347
11	157	161	820	166	214	144	127	124	150	208	85	242
12	152	159	335	166	208	144	215	115	126	184	103	198
13	148	155	277	160	202	142	778	114	139	135	122	173
14	150	144	342	154	193	141	469	113	138	106	96	166
15	186	149	365	154	191	142	263	111	128	93	91	162
16	150	156	313	148	192	201	212	173	820	86	88	148
17	146	154	387	148	180	184	193	173	403	88	89	651
18	146	149	313	173	180	159	181	167	198	358	137	640
19	144	1,360	269	164	178	153	171	129	157	319	100	284
20	142	598	244	153	175	146	164	126	148	144	86	216
21	140	318	226	144	178	148	159	116	135	114	79	188
22	140	255	218	144	169	141	153	111	232	102	78	171
23	134	227	214	142	165	137	149	158	155	106	74	158
24	135	216	220	142	165	138	155	155	137	94	79	149
25	136	228	210	e144	162	136	145	114	173	89	80	142
26	139	199	201	e143	158	136	183	113	836	137	74	137
27	346	190	198	e141	166	137	213	131	210	230	72	136
28	205	246	192	e139	163	138	156	106	173	258	69	2,530
29	173	284	178	e138	157	134	145	103	e151	133	74	592
30	157	219	186	e150	---	139	142	98	e140	137	75	329
31	152	---	176	150	---	180	---	122	---	124	70	---
TOTAL	4,955	7,541	8,584	4,934	7,147	4,671	5,735	4,109	6,339	4,476	3,181	13,305
MEAN	160	251	277	159	246	151	191	133	211	144	103	444
MAX	346	1,360	820	189	974	201	778	173	836	358	340	4,230
MIN	134	143	176	138	140	134	125	98	86	86	69	59
CFSM	1.25	1.96	2.16	1.24	1.93	1.18	1.49	1.04	1.65	1.13	0.80	3.46
IN.	1.44	2.19	2.49	1.43	2.08	1.36	1.67	1.19	1.84	1.30	0.92	3.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004, BY WATER YEAR (WY)

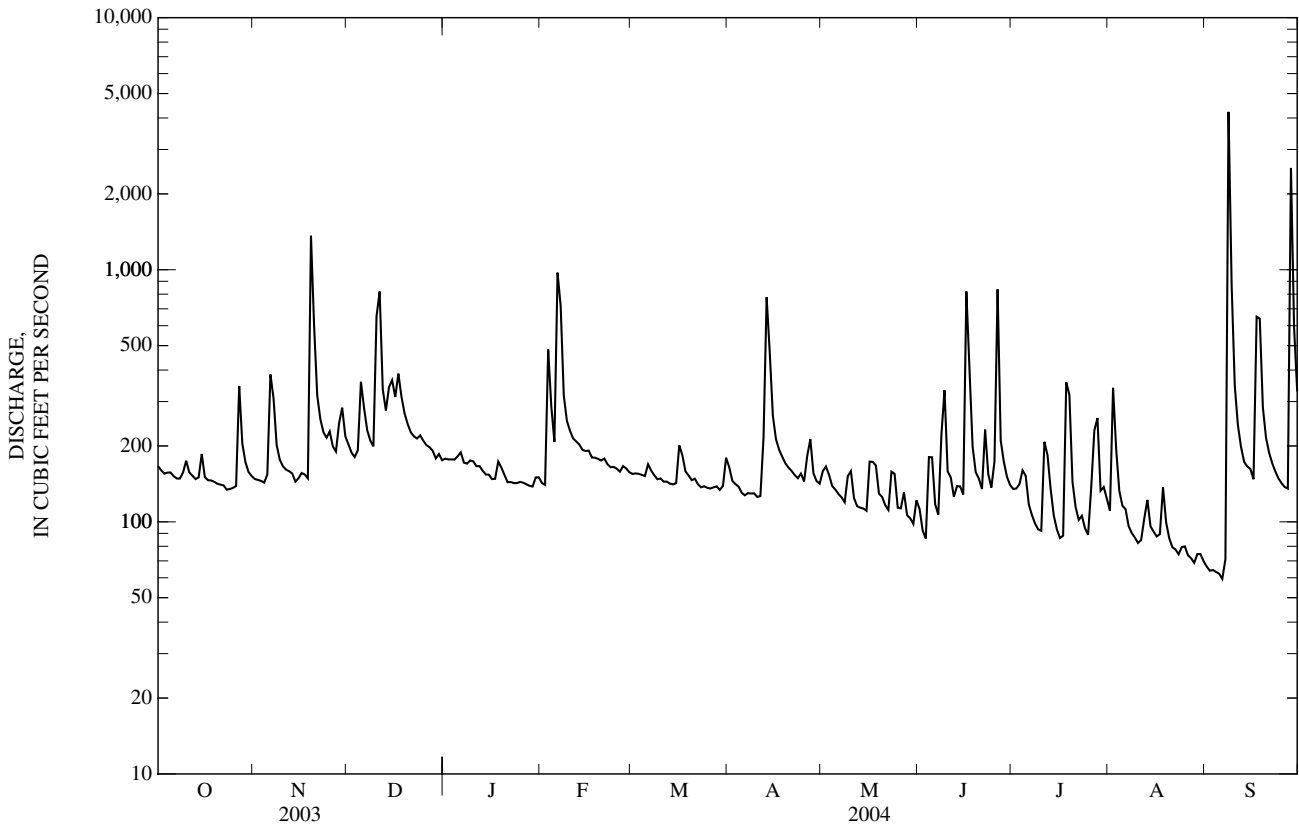
MEAN	144	149	168	199	215	246	243	194	177	148	152	144
MAX	580	344	365	526	539	667	746	387	491	397	510	735
(WY)	(1938)	(1935)	(1974)	(1936)	(1960)	(1993)	(1983)	(1950)	(1947)	(1943)	(1940)	(1979)
MIN	40.2	48.1	58.1	54.4	68.8	103	102	61.7	29.7	31.3	24.1	27.9
(WY)	(1942)	(2002)	(1956)	(1956)	(1934)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(1954)

02113000 FISHER RIVER NEAR COPELAND, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004	
ANNUAL TOTAL	109,017		74,977		181	
ANNUAL MEAN	299		205		281	
HIGHEST ANNUAL MEAN					281	1979
LOWEST ANNUAL MEAN					73.6	2002
HIGHEST DAILY MEAN	2,590	Apr 10	4,230	Sep 8	12,100	Sep 22, 1979
LOWEST DAILY MEAN	100	Jan 27	59	Sep 6	11	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	102	Jan 23	64	Aug 31	14	Sep 8, 2002
MAXIMUM PEAK FLOW			7,160	Sep 8	34,200*	Sep 22, 1979
MAXIMUM PEAK STAGE			11.38	Sep 8	19.61	Sep 22, 1979
INSTANTANEOUS LOW FLOW			57	Sep 6	10*	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	2.33		1.60		1.42	
ANNUAL RUNOFF (INCHES)	31.68		21.79		19.25	
10 PERCENT EXCEEDS	502		294		290	
50 PERCENT EXCEEDS	222		154		135	
90 PERCENT EXCEEDS	136		96		65	

* See REMARKS.

e Estimated.



02113000 FISHER RIVER NEAR COPELAND, NC—Continued

PRECIPITATION RECORDS

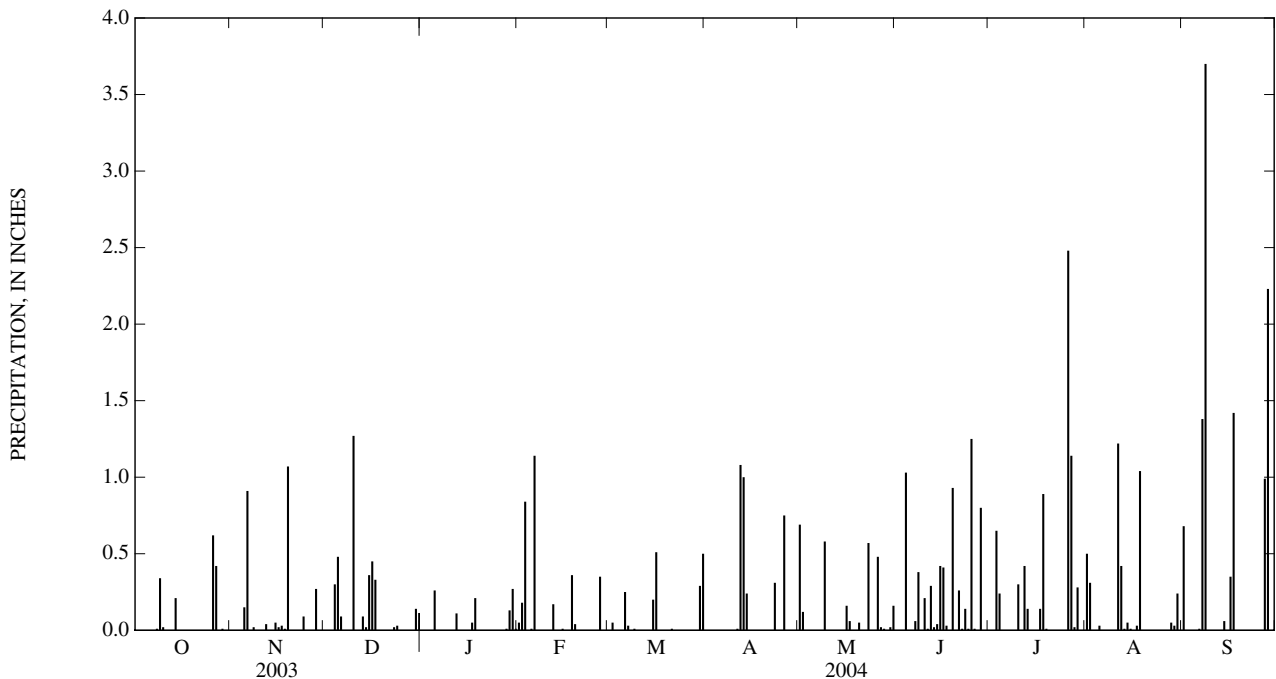
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.69	0.00	0.00	0.50	0.68
2	0.00	0.00	0.00	0.00	0.18	0.05	0.00	0.12	0.00	0.00	0.31	0.00
3	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.65	0.00	0.00
4	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	1.03	0.24	0.00	0.00
5	0.00	0.15	0.48	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.00
6	0.00	0.91	0.09	0.00	1.14	0.25	0.00	0.00	0.00	0.00	0.00	0.01
7	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.06	0.00	0.00	1.38
8	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	3.70
9	0.34	0.00	0.00	0.00	0.00	0.01	0.00	0.58	0.00	0.00	0.00	0.00
10	0.02	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.21	0.30	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	1.22	0.00
12	0.00	0.04	0.00	0.11	0.17	0.00	1.08	0.00	0.29	0.42	0.42	0.00
13	0.00	0.00	0.09	0.00	0.00	0.00	1.00	0.00	0.02	0.14	0.01	0.00
14	0.21	0.00	0.02	0.00	0.00	0.00	0.24	0.00	0.04	0.00	0.05	0.06
15	0.00	0.05	0.36	0.00	0.01	0.20	0.00	0.00	0.42	0.00	0.01	0.00
16	0.00	0.02	0.45	0.00	0.00	0.51	0.00	0.16	0.41	0.00	0.00	0.35
17	0.00	0.03	0.33	0.05	0.00	0.00	0.00	0.06	0.03	0.14	0.03	1.42
18	0.00	0.01	0.00	0.21	0.36	0.00	0.00	0.00	0.00	0.89	1.04	0.00
19	0.00	1.07	0.00	0.00	0.04	0.00	0.00	0.00	0.93	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.26	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
23	0.00	0.00	0.02	0.00	0.00	0.00	0.31	0.57	0.14	0.00	0.00	0.00
24	0.00	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00
26	0.62	0.00	0.00	0.00	0.00	0.00	0.75	0.48	0.01	2.48	0.00	0.00
27	0.42	0.00	0.00	0.00	0.35	0.00	0.00	0.02	0.00	1.14	0.00	0.99
28	0.00	0.27	0.00	0.01	0.00	0.00	0.00	0.01	0.80	0.02	0.05	2.23
29	0.01	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.28	0.03	0.00
30	0.00	0.00	0.14	0.27	---	0.29	0.00	0.02	0.00	0.00	0.24	0.00
31	0.00	---	0.00	0.01	---	0.50	---	0.16	---	0.00	0.00	---
TOTAL	1.63	2.66	3.58	1.05	3.15	1.85	3.39	2.92	6.31	6.71	3.94	10.82



02113850 ARARAT RIVER AT ARARAT, NC

LOCATION.--Lat 36°24'16", long 80°33'42", Surry County, Hydrologic Unit 03040101, on right bank 265 ft upstream from bridge on Secondary Road 2019 at Ararat, and 300 ft downstream of Flat Shoal Creek.

DRAINAGE AREA.--231 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 880.97 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 20, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 14, 1947, reached a stage of 21.4 ft, result of failure of dams upstream; discharge, 26,000 ft³/s, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	297	404	362	301	283	305	476	204	197	198	159
2	339	294	381	361	297	288	268	397	173	205	422	154
3	324	291	370	359	798	289	261	316	161	270	374	158
4	322	290	399	358	550	279	253	277	315	688	242	150
5	320	305	626	379	434	275	241	265	314	473	204	145
6	313	749	517	391	1,230	320	236	254	214	292	204	143
7	304	572	453	349	1,090	290	240	244	192	242	180	160
8	303	396	426	340	536	288	240	231	256	219	170	3,640
9	314	343	407	348	452	281	238	271	361	203	169	1,390
10	365	325	706	347	419	284	227	269	222	210	168	681
11	315	318	1,040	335	397	276	231	231	198	305	196	404
12	308	313	557	336	389	274	376	222	185	281	311	311
13	298	309	493	333	375	269	1,090	218	198	306	309	275
14	308	281	602	330	360	268	833	219	211	218	212	273
15	404	294	598	330	353	270	481	214	204	192	197	267
16	311	316	535	319	362	379	391	213	682	178	184	244
17	301	307	620	319	339	342	e350	266	420	179	282	635
18	303	296	550	359	338	289	e320	254	302	294	310	805
19	296	1,510	497	339	331	280	e300	218	224	273	213	383
20	292	1,040	466	316	327	268	e290	262	203	213	193	299
21	293	572	444	312	327	272	e284	244	195	182	179	266
22	289	489	434	313	314	260	e280	218	254	181	182	250
23	278	452	425	309	308	255	271	213	212	191	181	234
24	280	437	429	308	311	255	284	225	315	174	209	218
25	277	465	410	e286	301	250	263	203	284	164	174	209
26	286	417	394	e286	296	248	349	194	1,030	196	170	202
27	637	402	386	e284	300	247	387	209	336	604	165	206
28	414	477	381	e282	293	247	283	191	257	421	160	3,800
29	346	517	377	303	289	240	265	189	238	239	190	925
30	315	430	388	319	---	255	260	178	227	239	174	531
31	301	---	367	316	---	336	---	228	---	217	168	---
TOTAL	10,106	13,504	15,082	10,228	12,417	8,657	10,097	7,609	8,587	8,246	6,690	17,517
MEAN	326	450	487	330	428	279	337	245	286	266	216	584
MAX	637	1,510	1,040	391	1,230	379	1,090	476	1,030	688	422	3,800
MIN	277	281	367	282	289	240	227	178	161	164	160	143
CFSM	1.41	1.95	2.11	1.43	1.85	1.21	1.46	1.06	1.24	1.15	0.93	2.53
IN.	1.63	2.17	2.43	1.65	2.00	1.39	1.63	1.23	1.38	1.33	1.08	2.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

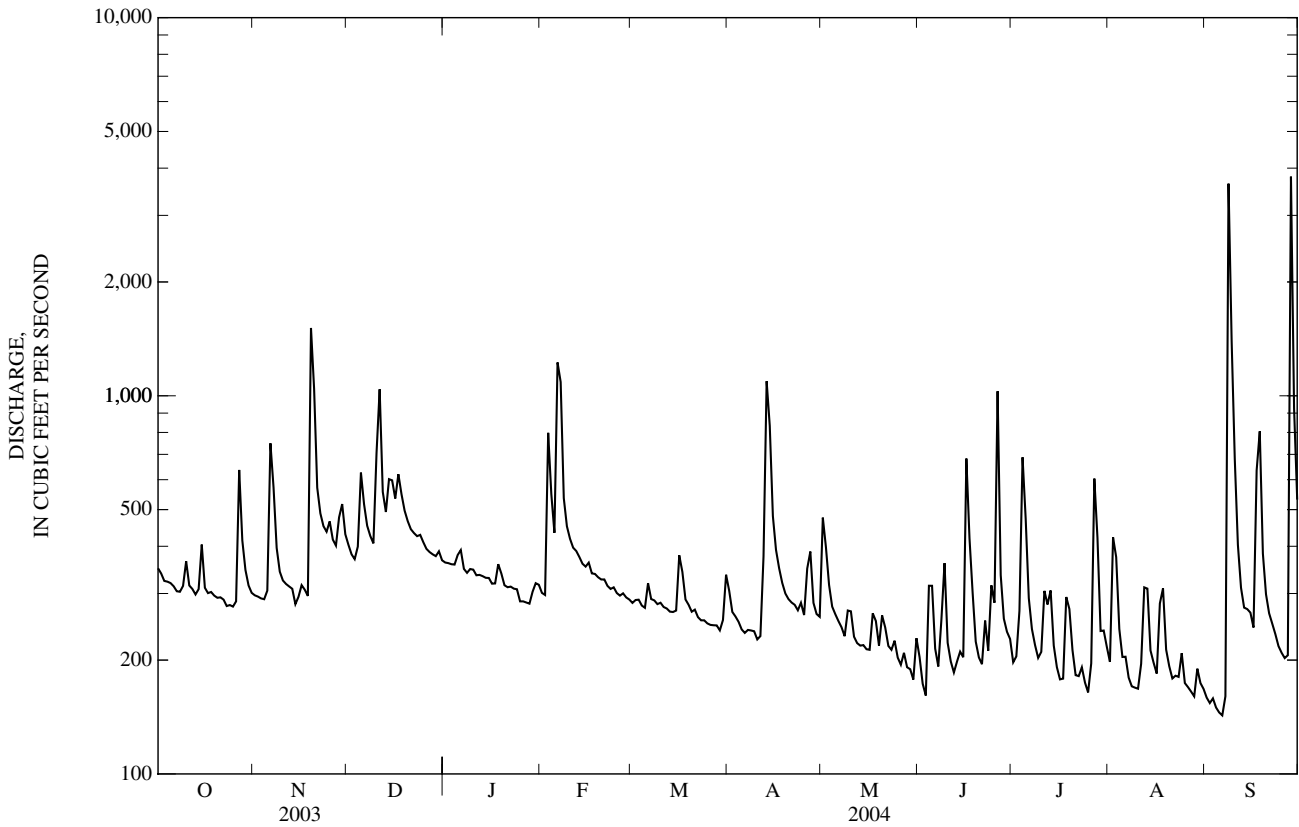
	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004											
MEAN	232	249	283	331	364	427	428	353	321	256	250	235	235	232	249	283	331	364	427	428	353	321	256	250	235	235	232	249	283	331	364	427	428	353	321	256	250	235	235	232	249	283	331	364	427	428	353	321	256	250	235	235
MAX	587	537	584	743	691	992	1,048	591	855	658	930	879	879	587	537	584	743	691	992	1,048	591	855	658	930	879	879	587	537	584	743	691	992	1,048	591	855	658	930	879	879	587	537	584	743	691	992	1,048	591	855	658	930	879	879
(WY)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)
MIN	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2
(WY)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(1986)	(1986)	(2002)	(1998)	(1998)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(1986)	(1986)	(2002)	(1998)	(1998)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(1986)	(1986)	(2002)	(1998)	(1998)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(1986)	(1986)	(2002)	(1998)	(1998)

02113850 ARARAT RIVER AT ARARAT, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	196,038		128,740		311	
ANNUAL MEAN	537		352		493	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	3,730	Feb 22	3,800	Sep 28	13,600	Sep 22, 1979
LOWEST DAILY MEAN	173	Jan 28	143	Sep 6	13	Aug 19, 1999
ANNUAL SEVEN-DAY MINIMUM	179	Jan 22	153	Sep 1	23	Aug 24, 1981
MAXIMUM PEAK FLOW			7,110	Sep 28	35,000	Sep 22, 1979
MAXIMUM PEAK STAGE			11.41	Sep 28	24.46	Sep 22, 1979
INSTANTANEOUS LOW FLOW			138	Sep 6	12*	Aug 19, 1999
ANNUAL RUNOFF (CFSM)	2.33		1.52		1.34	
ANNUAL RUNOFF (INCHES)	31.57		20.73		18.27	
10 PERCENT EXCEEDS	953		503		509	
50 PERCENT EXCEEDS	427		296		238	
90 PERCENT EXCEEDS	238		192		118	

* See REMARKS.

e Estimated.



02113850 ARARAT RIVER AT ARARAT, NC—Continued

PRECIPITATION RECORDS

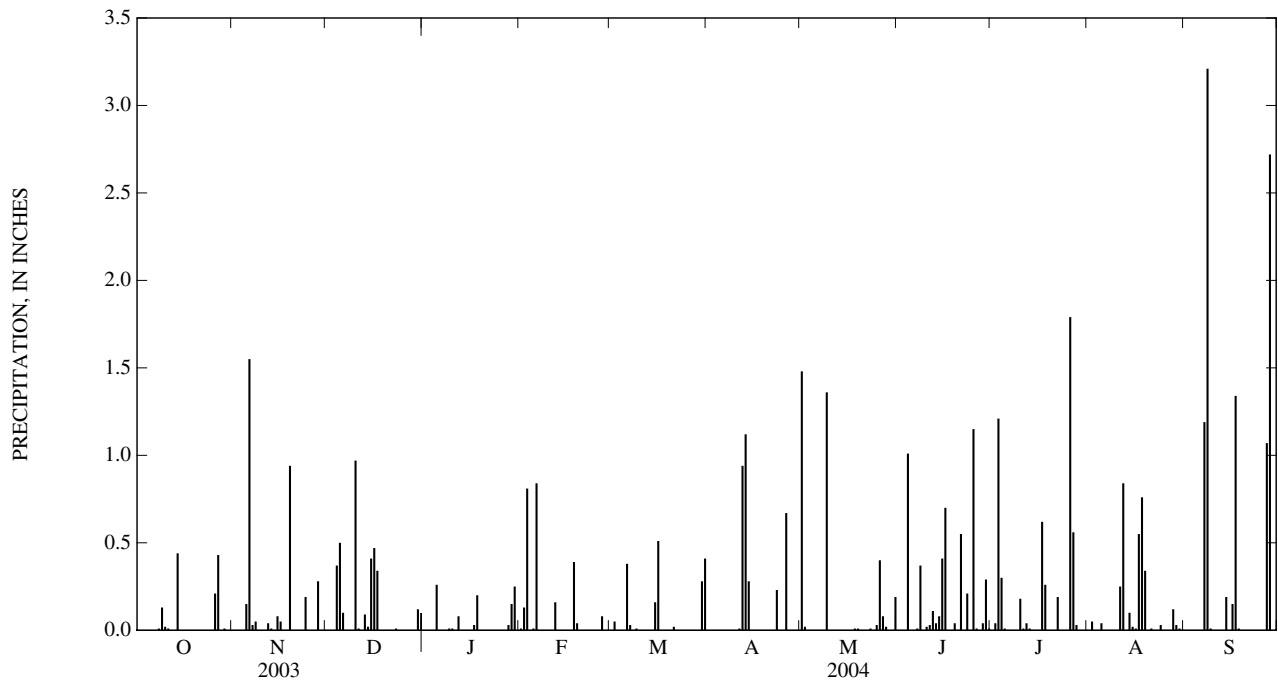
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.48	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.13	0.05	0.00	0.02	0.00	0.04	0.05	0.00
3	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	1.21	0.00	0.00
4	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	1.01	0.30	0.00	0.00
5	0.00	0.15	0.50	0.26	0.01	0.00	0.00	0.00	0.00	0.01	0.04	0.00
6	0.00	1.55	0.10	0.00	0.84	0.38	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.00	1.19
8	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	3.21
9	0.13	0.00	0.00	0.01	0.00	0.01	0.00	1.36	0.00	0.00	0.00	0.01
10	0.02	0.00	0.97	0.01	0.00	0.00	0.00	0.00	0.02	0.18	0.00	0.00
11	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.03	0.01	0.25	0.00
12	0.00	0.04	0.00	0.08	0.16	0.00	0.94	0.00	0.11	0.04	0.84	0.00
13	0.00	0.01	0.09	0.00	0.00	0.00	1.12	0.00	0.04	0.01	0.00	0.00
14	0.44	0.00	0.02	0.00	0.00	0.00	0.28	0.00	0.08	0.00	0.10	0.19
15	0.00	0.08	0.41	0.00	0.00	0.16	0.00	0.00	0.41	0.00	0.02	0.00
16	0.00	0.05	0.47	0.00	0.00	0.51	0.00	0.00	0.70	0.00	0.01	0.15
17	0.00	0.00	0.34	0.03	0.00	0.00	0.00	0.00	0.00	0.62	0.55	1.34
18	0.00	0.00	0.00	0.20	0.39	0.00	0.00	0.01	0.00	0.26	0.76	0.01
19	0.00	0.94	0.00	0.00	0.04	0.00	0.00	0.01	0.04	0.00	0.34	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.55	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00
23	0.00	0.00	0.01	0.00	0.00	0.00	0.23	0.01	0.21	0.00	0.00	0.00
24	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.15	0.00	0.00	0.00
26	0.21	0.00	0.00	0.00	0.00	0.00	0.67	0.40	0.01	1.79	0.00	0.00
27	0.43	0.00	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.56	0.00	1.07
28	0.00	0.28	0.00	0.03	0.00	0.00	0.00	0.02	0.04	0.03	0.12	2.72
29	0.01	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.29	0.00	0.03	0.00
30	0.00	0.00	0.12	0.25	---	0.28	0.00	0.00	0.01	0.00	0.01	0.00
31	0.00	---	0.00	0.00	---	0.41	---	0.19	---	0.00	0.00	---
TOTAL	1.26	3.37	3.41	1.02	2.47	1.85	3.25	3.61	5.08	5.25	3.16	9.89



02114450 LITTLE YADKIN RIVER AT DALTON, NC

LOCATION.--Lat 36°17'56", long 80°25'52", Stokes County, Hydrologic Unit 03040101, on left bank 1,200 ft downstream of bridge on U.S. Highway 52, 1.0 mi southwest of Dalton, 1.3 mi downstream of Southern Railway bridge, and 2.0 mi downstream of Danbury Creek.

DRAINAGE AREA.--42.8 mi².

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft above NGVD of 1929 (North Carolina State Highway Commission bench mark). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A Natural Resources Conservation Service flood-control dam on upstream tributary, drainage area 4.7 mi² with flood storage of 695 acre-ft, was completed on June 21, 1977. Maximum discharge for period of record, from rating curve extended above 7,700 ft³/s on basis of slope-area measurement at gage height 17.86 ft. Minimum discharge for period of record also occurred Aug. 25, 26, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	32	33	34	35	34	37	91	24	15	16	13
2	33	32	31	34	33	35	34	77	20	15	16	12
3	31	32	30	34	205	35	32	49	18	19	42	12
4	32	32	35	34	102	34	32	38	28	34	19	11
5	31	32	79	42	63	33	31	36	28	21	15	11
6	31	129	67	43	395	38	30	33	23	17	14	10
7	30	88	47	35	271	36	30	32	21	16	12	16
8	30	45	40	34	98	37	30	29	24	15	12	439
9	34	36	37	36	66	36	29	28	23	15	11	102
10	38	33	125	35	56	37	29	33	21	14	11	39
11	33	33	164	33	49	37	29	27	20	17	25	26
12	32	33	69	33	48	37	43	26	18	21	94	23
13	32	31	51	33	45	36	178	26	19	18	51	20
14	32	29	77	32	42	36	226	25	21	16	23	21
15	39	31	105	32	43	37	98	24	23	13	20	20
16	32	32	96	31	46	63	61	24	22	12	18	19
17	32	32	154	31	42	52	48	82	19	12	19	71
18	32	31	95	39	43	41	42	68	18	21	22	90
19	32	55	65	35	47	38	39	33	16	16	18	33
20	31	49	52	32	45	36	36	31	18	14	16	23
21	32	37	45	31	42	35	35	28	16	13	15	21
22	31	34	43	32	39	33	33	46	18	12	14	20
23	30	32	42	31	38	31	33	101	23	13	13	19
24	30	33	42	e31	38	31	36	67	22	12	13	18
25	31	34	38	e31	36	31	32	32	18	11	12	17
26	33	31	37	e31	35	31	38	26	25	16	12	16
27	48	31	36	e30	36	31	40	42	18	81	12	20
28	38	40	36	e35	36	31	32	27	17	48	20	2,470
29	35	43	36	37	34	30	30	25	17	21	23	348
30	32	34	38	35	---	32	30	23	16	29	16	191
31	32	---	35	37	---	44	---	28	---	19	16	---
TOTAL	1,023	1,196	1,880	1,053	2,108	1,128	1,453	1,257	614	616	640	4,151
MEAN	33.0	39.9	60.6	34.0	72.7	36.4	48.4	40.5	20.5	19.9	20.6	138
MAX	48	129	164	43	395	63	226	101	28	81	94	2,470
MIN	30	29	30	30	33	30	29	23	16	11	11	10
CFSM	0.77	0.93	1.42	0.79	1.70	0.85	1.13	0.95	0.48	0.46	0.48	3.23
IN.	0.89	1.04	1.63	0.92	1.83	0.98	1.26	1.09	0.53	0.54	0.56	3.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

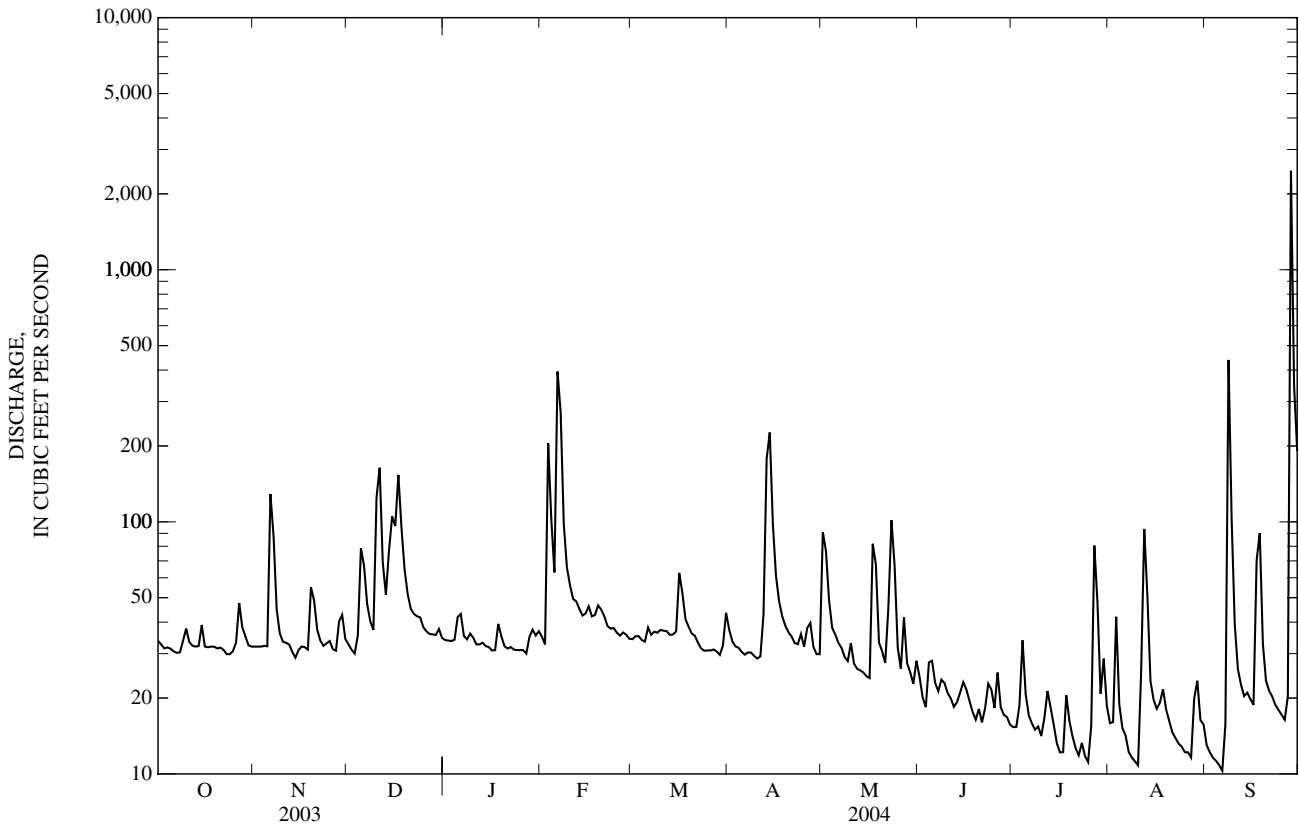
MEAN	35.3	32.4	46.3	58.1	64.6	81.6	61.0	44.7	38.9	31.5	30.6	32.5
MAX	171	102	113	136	163	250	217	154	155	128	120	172
(WY)	(1991)	(1993)	(1974)	(1978)	(1990)	(1975)	(1987)	(1984)	(1962)	(1978)	(1970)	(1979)
MIN	7.47	9.14	15.1	17.2	24.9	20.1	18.0	13.1	7.15	4.27	3.51	5.08
(WY)	(1987)	(2002)	(2001)	(1981)	(2001)	(1967)	(1967)	(2002)	(1986)	(1986)	(2002)	(1968)

02114450 LITTLE YADKIN RIVER AT DALTON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL TOTAL	30,060		17,119		46.3	
ANNUAL MEAN	82.4		46.8		84.9	
HIGHEST ANNUAL MEAN					19.9	2003
LOWEST ANNUAL MEAN					19.9	2002
HIGHEST DAILY MEAN	2,780	Mar 20	2,470	Sep 28	3,350	Jun 21, 1972
LOWEST DAILY MEAN	19	Jan 28	10	Sep 6	1.4	Aug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	21	Jan 22	12	Aug 31	1.6	Aug 19, 2002
MAXIMUM PEAK FLOW			6,840	Sep 28	9,400*	Sep 22, 1979
MAXIMUM PEAK STAGE			15.82	Sep 28	20.29	Sep 22, 1979
INSTANTANEOUS LOW FLOW			9.8	Sep 6	1.2*	Aug 24, 2002
ANNUAL RUNOFF (CFSM)	1.92		1.09		1.08	
ANNUAL RUNOFF (INCHES)	26.13		14.88		14.69	
10 PERCENT EXCEEDS	125		65		74	
50 PERCENT EXCEEDS	42		32		26	
90 PERCENT EXCEEDS	30		16		12	

* See REMARKS.

e Estimated.



02115360 YADKIN RIVER AT ENON, NC

LOCATION.--Lat 36°07'54", long 80°26'38", Forsyth County, Hydrologic Unit 03040101, on left bank 70 ft upstream from bridge on Secondary Road 1525, 1.5 mi east of Enon, 4 mi upstream from Forbush Creek, and 324 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,694 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year.

REVISED RECORDS.--WDR NC-72-1: 1970 (M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 701.71 ft above NGVD of 1929. Prior to Nov. 6, 1968, nonrecording gage on downstream side of bridge at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation by W. Kerr Scott Reservoir (station 02111391). Minimum discharge for current water year also occurred Aug. 11.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 15, 1940, reached a stage of 737.5 ft (35.8 ft above gage datum), from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,410	e2,020	2,780	2,370	2,040	2,360	2,680	2,430	1,770	1,800	1,530	1,350
2	2,260	e2,000	2,490	2,350	2,000	2,360	2,480	2,840	1,550	1,770	1,560	1,370
3	2,200	e2,000	2,420	2,350	3,990	2,310	2,210	2,260	1,440	2,020	2,430	1,330
4	2,190	e1,980	2,450	2,360	4,190	2,230	2,060	2,080	1,410	2,990	1,590	1,610
5	2,250	e2,100	3,190	2,310	3,240	2,220	1,980	2,000	2,670	2,570	1,370	1,570
6	2,240	2,840	3,310	2,490	4,510	2,300	1,950	1,960	2,090	2,030	1,300	1,240
7	2,210	4,140	2,960	2,330	11,200	2,500	1,950	1,880	1,730	1,710	1,260	1,210
8	2,180	e2,900	2,650	2,240	4,750	2,310	1,960	1,800	1,810	1,550	1,180	17,900
9	2,240	e2,500	2,510	2,200	5,260	2,210	1,960	1,800	2,130	1,480	1,160	18,000
10	2,580	e2,100	2,720	2,230	4,120	2,180	1,920	2,150	1,850	1,370	1,170	7,530
11	2,480	2,110	7,330	2,190	3,110	2,150	1,890	1,860	1,930	1,540	1,170	7,150
12	2,300	2,050	4,650	2,190	2,930	2,140	2,010	1,710	1,690	1,610	2,450	6,770
13	2,160	2,040	4,050	2,200	2,940	2,110	4,460	1,660	1,680	2,000	2,240	6,130
14	2,190	1,950	4,020	2,180	2,800	2,070	6,640	1,680	1,950	1,720	1,730	3,800
15	2,340	1,920	4,500	2,140	2,730	2,040	4,420	1,720	1,800	1,470	1,470	2,410
16	2,310	1,970	4,070	2,100	2,720	2,210	3,760	1,670	2,840	1,270	1,400	2,090
17	2,170	1,970	4,100	2,070	2,690	2,760	3,350	1,920	4,380	1,240	1,360	2,580
18	2,150	1,950	4,320	2,170	2,640	2,390	2,850	2,100	3,480	1,560	1,870	7,190
19	2,140	3,170	3,700	2,310	2,560	2,210	2,490	1,890	3,150	2,270	1,720	5,020
20	2,120	8,390	3,330	2,150	2,510	2,240	2,340	1,820	2,300	1,880	1,490	3,690
21	2,090	5,260	2,990	2,040	2,460	2,170	2,180	1,880	1,780	1,480	1,400	2,790
22	2,080	4,980	2,850	2,030	2,420	2,050	2,120	1,830	2,310	1,320	1,480	2,450
23	2,040	4,500	2,720	2,030	2,360	2,060	2,080	1,720	3,150	1,330	1,240	2,240
24	2,030	3,300	2,750	2,010	2,350	2,020	2,120	2,100	2,950	1,290	1,290	2,150
25	2,000	2,850	2,680	2,040	2,340	1,990	2,060	1,760	2,530	1,250	1,630	2,010
26	1,980	2,610	2,540	2,120	2,270	1,980	2,060	1,730	5,070	1,240	1,730	1,970
27	2,880	2,420	2,490	2,090	2,330	1,980	2,780	1,930	3,710	2,510	1,360	1,970
28	3,560	2,530	2,480	2,110	2,410	1,990	2,370	1,740	2,810	2,880	1,250	24,600
29	2,760	3,270	2,450	2,080	2,390	1,960	2,100	1,650	2,400	1,890	1,330	10,800
30	2,190	2,900	2,470	2,020	---	1,960	2,020	1,610	2,000	1,680	1,350	5,960
31	e2,050	---	2,460	2,080	---	2,200	---	1,630	---	1,590	1,320	---
TOTAL	70,780	86,720	100,430	67,580	94,260	67,660	77,250	58,810	72,360	54,310	46,830	156,880
MEAN	2,283	2,891	3,240	2,180	3,250	2,183	2,575	1,897	2,412	1,752	1,511	5,229
MAX	3,560	8,390	7,330	2,490	11,200	2,760	6,640	2,840	5,070	2,990	2,450	24,600
MIN	1,980	1,920	2,420	2,010	2,000	1,960	1,890	1,610	1,410	1,240	1,160	1,210

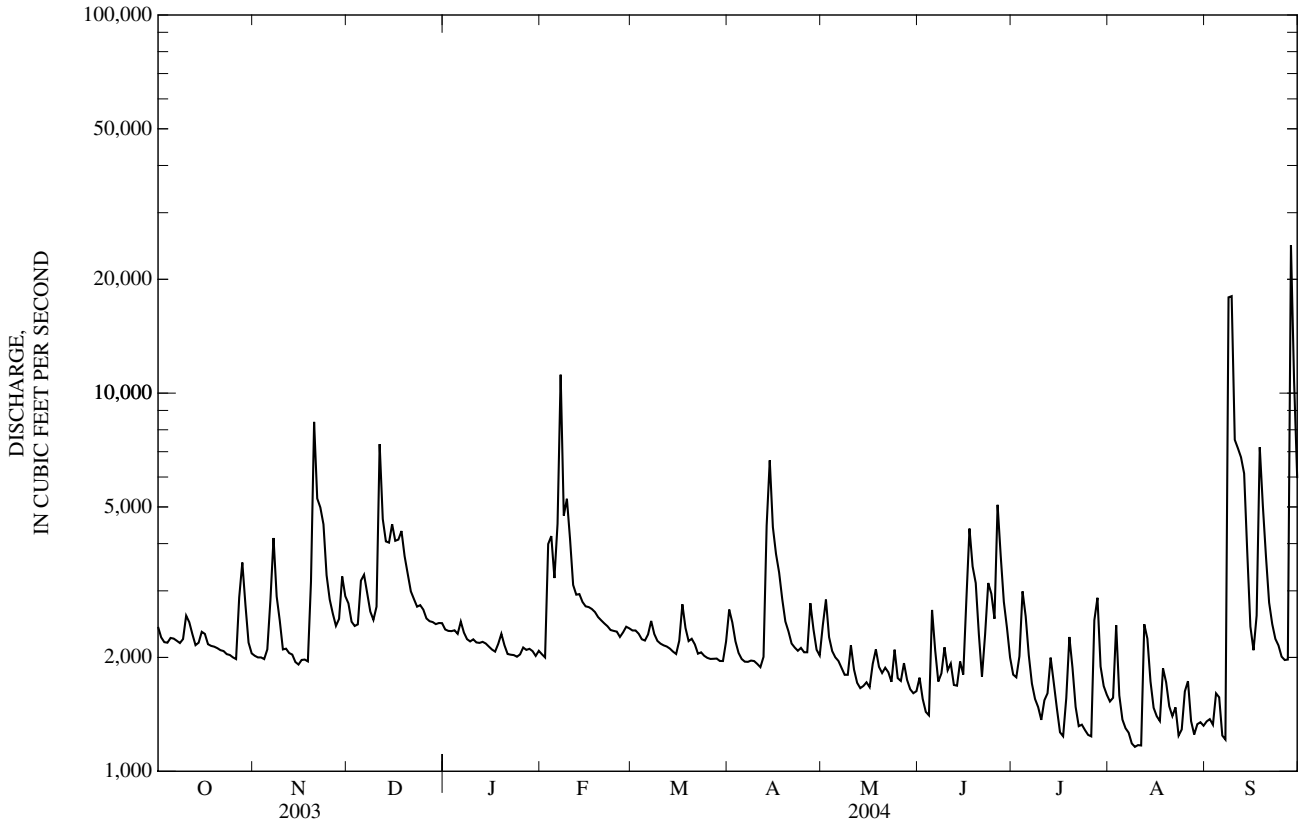
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	1,953	2,012	2,272	2,706	2,907	3,464	3,309	2,732	2,459	1,931	1,978	1,846
MAX	5,371	5,128	4,814	5,725	5,645	7,862	7,337	4,989	5,435	4,419	5,611	5,810
(WY)	(1991)	(1978)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(1972)	(2003)	(1970)	(1979)
MIN	635	620	841	1,051	1,023	1,443	1,350	925	540	654	405	815
(WY)	(2002)	(2002)	(2001)	(1981)	(2001)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(1988)

02115360 YADKIN RIVER AT ENON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	1,352,200		953,870		2,459	
ANNUAL MEAN	3,705		2,606		3,605	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	28,300	Mar 20	24,600	Sep 28	48,400	Sep 22, 1979
LOWEST DAILY MEAN	1,250	Jan 29	1,160	Aug 9	264	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	1,300	Jan 23	1,230	Aug 5	303	Aug 9, 2002
MAXIMUM PEAK FLOW			39,600	Sep 9	73,300	Jun 21, 1972
MAXIMUM PEAK STAGE			24.58	Sep 9	29.52	Sep 22, 1979
INSTANTANEOUS LOW FLOW			1090*	Aug 10	247	Sep 14, 2002
10 PERCENT EXCEEDS	6,160		3,860		4,170	
50 PERCENT EXCEEDS	3,030		2,170		1,890	
90 PERCENT EXCEEDS	1,810		1,480		982	

* See REMARKS.
e Estimated.



02115360 YADKIN RIVER AT ENON, NC—Continued

PRECIPITATION RECORDS

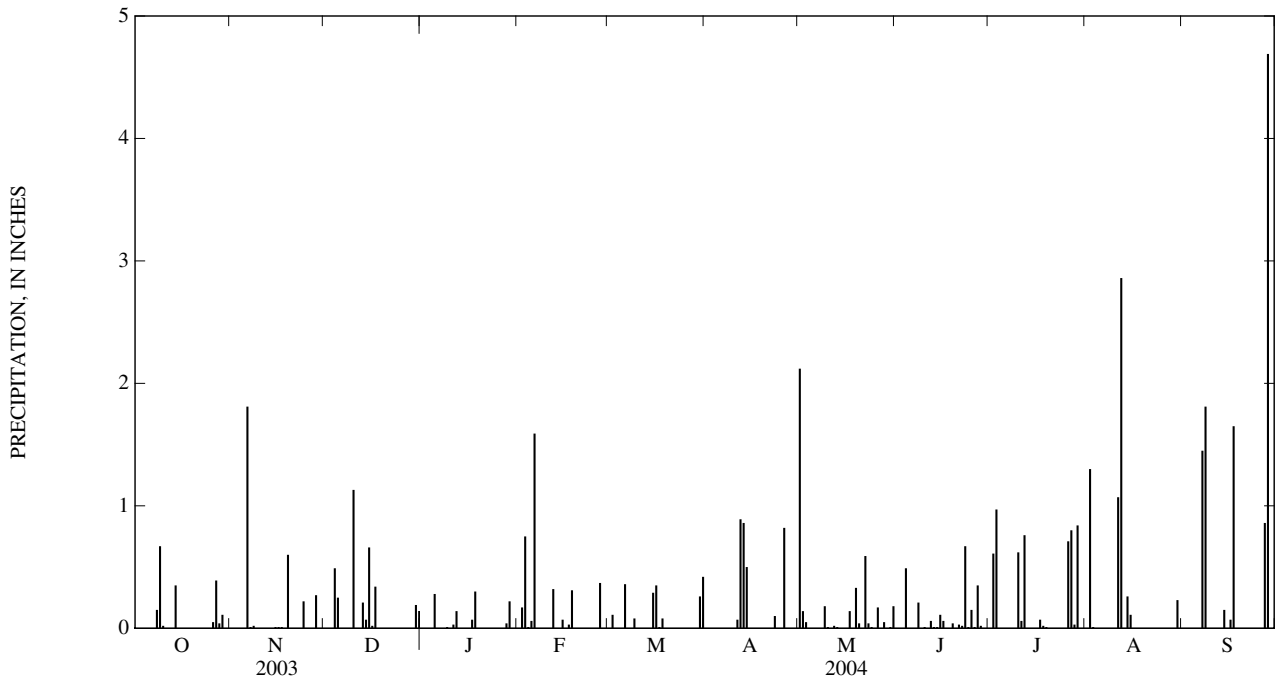
PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.17	0.11	0.00	0.14	0.00	0.61	1.30	0.00
3	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.05	0.00	0.97	0.01	0.00
4	0.00	0.00	0.49	0.00	0.01	0.00	0.00	0.00	0.49	0.00	0.00	0.00
5	0.00	0.00	0.25	0.28	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	1.81	0.00	0.00	1.59	0.36	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45
8	0.15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	1.81
9	0.67	0.00	0.00	0.01	0.00	0.08	0.00	0.18	0.00	0.00	0.00	0.00
10	0.02	0.00	1.13	0.00	0.00	0.00	0.00	0.01	0.01	0.62	0.00	0.00
11	0.00	0.00	0.00	0.03	0.00	0.00	0.07	0.00	0.00	0.06	1.07	0.00
12	0.00	0.00	0.00	0.14	0.32	0.00	0.89	0.02	0.06	0.76	2.86	0.00
13	0.00	0.00	0.21	0.00	0.00	0.00	0.86	0.01	0.01	0.00	0.00	0.00
14	0.35	0.00	0.07	0.00	0.00	0.00	0.50	0.00	0.01	0.00	0.26	0.15
15	0.00	0.01	0.66	0.00	0.07	0.29	0.00	0.00	0.11	0.00	0.11	0.00
16	0.00	0.01	0.02	0.00	0.00	0.35	0.00	0.00	0.06	0.00	0.00	0.07
17	0.00	0.01	0.34	0.07	0.03	0.01	0.00	0.14	0.00	0.07	0.00	1.65
18	0.00	0.00	0.00	0.30	0.31	0.08	0.00	0.00	0.00	0.02	0.00	0.00
19	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.33	0.04	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.02	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.67	0.00	0.00	0.00
24	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
26	0.05	0.00	0.00	0.00	0.00	0.00	0.82	0.17	0.01	0.71	0.00	0.00
27	0.39	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.35	0.80	0.00	0.86
28	0.04	0.27	0.00	0.04	0.00	0.00	0.00	0.05	0.02	0.03	0.00	4.69
29	0.11	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00
30	0.00	0.00	0.19	0.00	---	0.26	0.00	0.01	0.00	0.00	0.23	0.00
31	0.00	---	0.00	0.00	---	0.42	---	0.18	---	0.00	0.00	---
TOTAL	1.78	2.96	3.36	1.09	3.68	1.96	3.24	4.09	2.26	5.50	5.84	10.68



02116500 YADKIN RIVER AT YADKIN COLLEGE, NC

LOCATION.--Lat 35°51'24", long 80°23'13", North American Datum of 1983, Davie County, Hydrologic Unit 03040101, on right bank on downstream side of bridge on U.S. Highway 64, 1.5 mi south of Yadkin College, 6.2 mi downstream of Reedy Creek, and 295 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.45 ft above NGVD of 1929. Prior to July 26, 1957, at site on left bank 100 ft downstream at same datum. July 27, 1957, to Sept. 19, 1984, at site 20 ft downstream on bridge pier near left bank, at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuation and occasional regulation during low flow caused by small hydroelectric plant 10 mi upstream with little storage capacity. Since August 1962, some regulation by W. Kerr Scott Reservoir (station 02111391). Prior to regulation, maximum discharge: 80,200 ft³/s, Aug. 15, 1940; gage height: 33.75 ft; minimum observed discharge: 177 ft³/s, Oct. 12, 1954; gage height: -0.42 ft. Minimum discharge for period of record, result of regulation. Peak stage for current water year from crest-stage gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916, reached a stage of 36.3 ft, from floodmarks; discharge, 94,300 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,640	2,240	3,040	2,660	2,360	2,970	2,950	2,570	1,980	2,040	1,730	1,450
2	2,400	2,220	2,850	2,630	2,290	2,910	2,940	4,230	1,880	1,940	1,600	1,460
3	2,320	2,200	2,650	2,600	3,840	2,820	2,590	3,030	1,680	2,140	2,740	1,430
4	2,290	2,180	2,660	2,620	6,030	2,650	2,410	2,650	1,770	2,660	1,980	1,440
5	2,320	2,180	3,150	2,620	3,920	2,580	2,300	2,420	2,540	3,530	1,590	1,830
6	2,320	2,500	3,780	2,740	4,060	2,640	2,240	2,320	2,580	2,430	1,430	1,400
7	2,320	4,700	3,360	2,680	16,300	2,890	2,220	2,220	2,100	2,000	1,420	1,350
8	2,290	3,410	3,010	2,540	7,960	2,700	2,220	2,140	2,330	1,760	1,310	8,000
9	2,380	2,750	2,790	2,480	5,820	2,560	2,220	2,090	2,860	1,680	1,270	24,800
10	2,570	2,430	2,920	2,530	5,570	2,500	2,200	2,490	2,420	1,570	1,270	13,300
11	2,720	2,360	8,410	2,480	3,720	2,480	2,170	2,290	2,120	2,070	1,240	8,430
12	2,460	2,360	6,200	2,460	3,410	2,440	2,390	2,090	2,100	2,050	2,490	7,600
13	2,310	2,310	4,660	2,470	3,410	2,410	4,620	1,980	1,880	1,930	4,190	6,930
14	2,280	2,240	4,720	2,450	3,230	2,360	9,590	1,950	2,120	2,260	2,440	5,140
15	2,440	2,170	5,590	2,420	3,130	2,350	6,130	2,010	2,190	1,770	2,020	2,750
16	2,510	2,210	5,200	2,360	3,170	2,700	4,470	1,960	2,280	1,520	1,710	2,310
17	2,280	2,240	4,660	2,340	3,130	3,240	3,920	2,080	4,480	1,440	1,550	2,470
18	2,230	2,250	5,590	2,420	3,020	3,040	3,440	2,360	3,810	1,510	1,790	7,290
19	2,220	2,360	4,340	2,600	2,940	2,710	2,900	2,270	3,420	2,130	2,280	5,860
20	2,190	9,060	3,900	2,490	2,880	2,600	2,790	2,300	2,820	2,370	1,740	4,310
21	2,180	5,680	3,450	2,330	2,800	2,570	2,560	2,170	2,140	1,790	1,550	3,030
22	2,150	5,680	3,200	2,300	2,750	2,380	2,500	2,140	2,010	1,520	1,690	2,600
23	2,110	4,840	3,100	2,300	2,670	2,360	2,410	2,060	3,280	1,460	1,490	2,370
24	2,120	4,160	3,010	2,290	2,640	2,340	2,430	2,250	3,510	1,450	1,400	2,250
25	2,090	3,060	3,040	2,310	2,630	2,280	2,430	2,140	2,740	1,390	1,480	2,160
26	2,090	2,980	2,840	2,400	2,580	2,280	2,420	1,980	4,180	1,340	1,980	2,020
27	2,310	2,710	2,770	2,440	2,660	2,270	3,060	2,070	4,770	2,190	e1,500	2,130
28	4,120	2,680	2,770	2,360	2,780	2,270	2,980	2,140	3,420	3,030	e1,450	15,500
29	3,310	3,310	2,720	2,410	2,910	2,250	2,510	1,930	2,720	2,650	e1,520	31,600
30	2,690	3,310	2,750	2,370	---	2,240	2,360	1,910	2,310	1,900	e1,550	12,100
31	2,310	---	2,770	2,390	---	2,510	---	1,870	---	1,760	1,600	---
TOTAL	74,970	94,780	115,900	76,490	114,610	79,300	92,370	70,110	80,440	61,280	55,000	185,310
MEAN	2,418	3,159	3,739	2,467	3,952	2,558	3,079	2,262	2,681	1,977	1,774	6,177
MAX	4,120	9,060	8,410	2,740	16,300	3,240	9,590	4,230	4,770	3,530	4,190	31,600
MIN	2,090	2,170	2,650	2,290	2,290	2,240	2,170	1,870	1,680	1,340	1,240	1,350

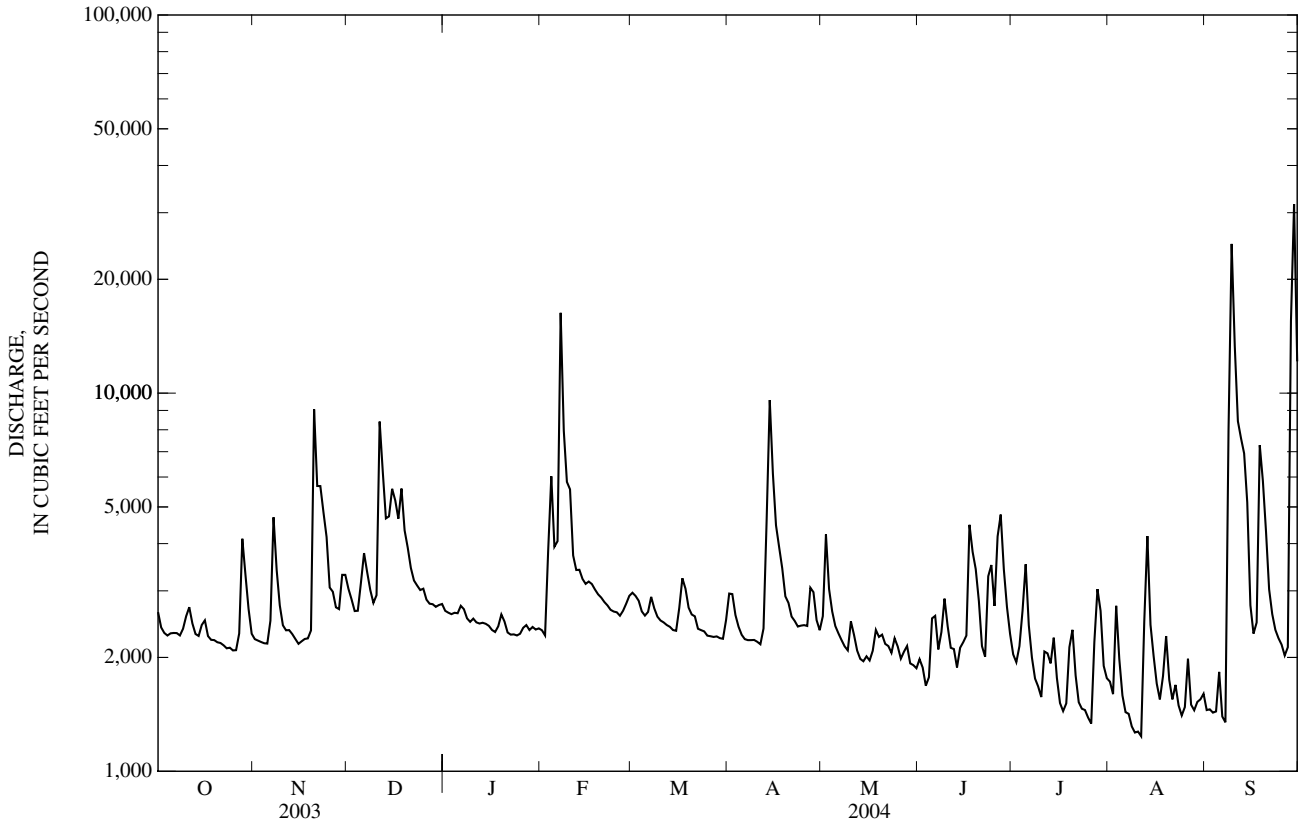
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004,* BY WATER YEAR (WY)

MEAN	2,405	2,462	2,839	3,450	3,712	4,506	4,045	3,324	2,934	2,321	2,294	2,192
MAX	7,491	5,844	5,784	7,580	7,632	10,380	9,419	6,277	7,755	5,158	7,191	7,314
(WY)	(1991)	(1993)	(1974)	(1978)	(1990)	(1975)	(1987)	(1984)	(1972)	(2003)	(1970)	(1979)
MIN	747	792	1,160	1,354	1,444	1,798	1,519	1,053	581	749	445	867
(WY)	(2002)	(2002)	(2001)	(1981)	(2001)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(2001)

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004*	
ANNUAL TOTAL	1,657,360		1,100,560		3,037	
ANNUAL MEAN	4,541		3,007		4,524	
HIGHEST ANNUAL MEAN					1,116	1973
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	42,600	Mar 21	31,600	Sep 29	66,000	Jun 22, 1972
LOWEST DAILY MEAN	1,500	Jan 29	1,240	Aug 11	236	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	1,560	Jan 23	1,360	Aug 5	261	Aug 9, 2002
MAXIMUM PEAK FLOW			35,100	Sep 29	75,200	Jun 22, 1972
MAXIMUM PEAK STAGE			22.50*	Sep 29	32.81*	Jun 22, 1972
INSTANTANEOUS LOW FLOW			1,190	Aug 11	110*	Aug 28, 1988
10 PERCENT EXCEEDS	7,930		4,380		5,250	
50 PERCENT EXCEEDS	3,440		2,420		2,270	
90 PERCENT EXCEEDS	2,120		1,700		1,190	

* Regulated period only (1963-2004). See REMARKS.
 e Estimated.



02116500 YADKIN RIVER AT YADKIN COLLEGE, NC—Continued

PRECIPITATION RECORDS

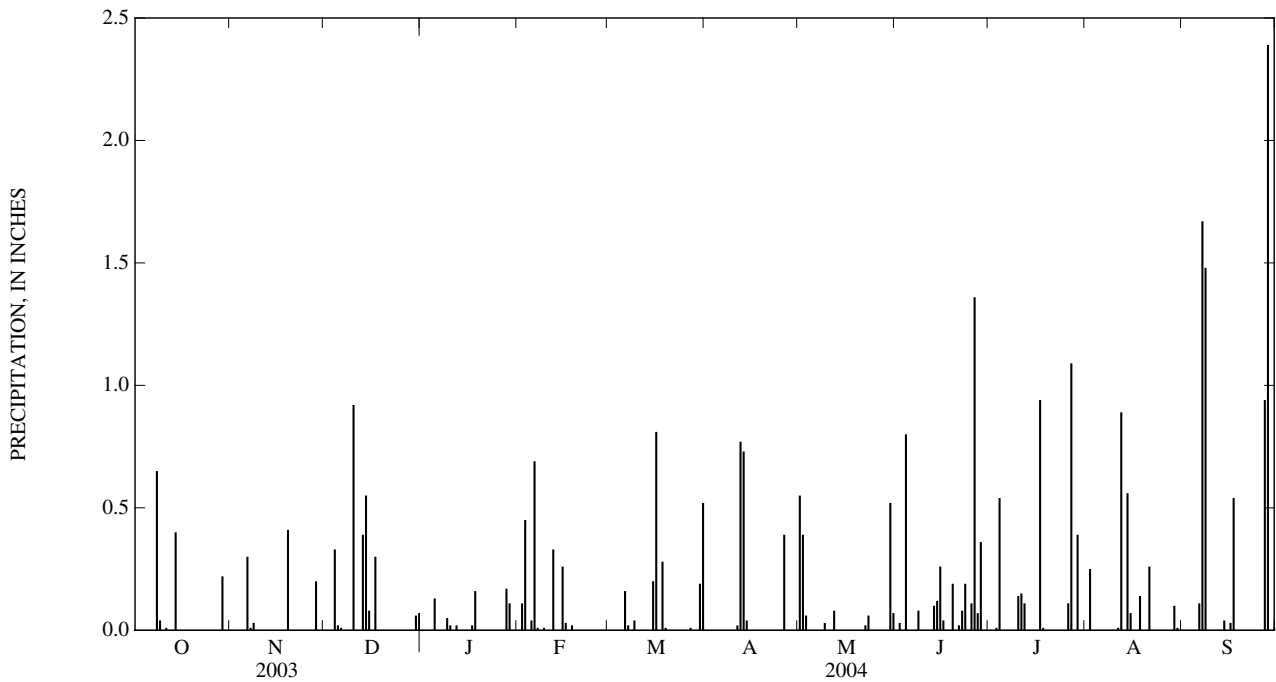
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	---	0.00	0.55	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.11	---	0.00	0.39	0.03	0.00	0.25	0.00
3	0.00	0.00	0.00	0.00	0.45	---	0.00	0.06	0.00	0.01	0.00	0.00
4	0.00	0.00	0.33	0.00	0.00	---	0.00	0.00	0.80	0.54	0.00	0.00
5	0.00	0.00	0.02	0.13	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.30	0.01	0.00	0.69	0.16	0.00	0.00	0.00	0.00	0.00	0.11
7	0.00	0.01	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	1.67
8	0.65	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	1.48
9	0.04	0.00	0.00	0.05	0.01	0.04	0.00	0.03	0.00	0.00	0.00	0.00
10	0.00	0.00	0.92	0.02	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
11	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.15	0.01	0.00
12	0.00	0.00	0.00	0.02	0.33	0.00	0.77	0.08	0.00	0.11	0.89	0.00
13	0.00	0.00	0.39	0.00	0.00	0.00	0.73	0.00	0.10	0.00	0.00	0.00
14	0.40	0.00	0.55	0.00	0.00	0.00	0.04	0.00	0.12	0.00	0.56	0.04
15	0.00	0.00	0.08	0.00	0.26	0.20	0.00	0.00	0.26	0.00	0.07	0.00
16	0.00	0.00	0.00	0.00	0.03	0.81	0.00	0.00	0.04	0.00	0.00	0.03
17	0.00	0.00	0.30	0.02	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.54
18	0.00	0.00	0.00	0.16	0.02	0.28	0.00	0.00	0.00	0.01	0.14	0.00
19	0.00	0.41	0.00	0.00	0.00	0.01	0.00	0.00	0.19	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.26	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.19	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.11	0.00	0.00	0.00
26	---	0.00	0.00	0.00	---	0.00	0.39	---	1.36	0.11	0.00	0.00
27	---	0.00	0.00	0.00	---	0.01	0.00	---	0.07	1.09	0.00	0.94
28	---	0.20	0.00	0.17	---	0.00	0.00	0.00	0.36	0.00	0.00	2.39
29	0.22	0.00	0.00	0.11	---	0.00	0.00	0.00	0.00	0.39	0.10	0.00
30	0.00	0.00	0.06	0.00	---	0.19	0.00	0.52	0.00	0.00	0.01	0.01
31	0.00	---	0.00	0.00	---	0.52	---	0.07	---	0.00	0.00	---
TOTAL	---	0.95	2.66	0.68	---	---	1.95	---	3.81	3.49	2.29	7.21

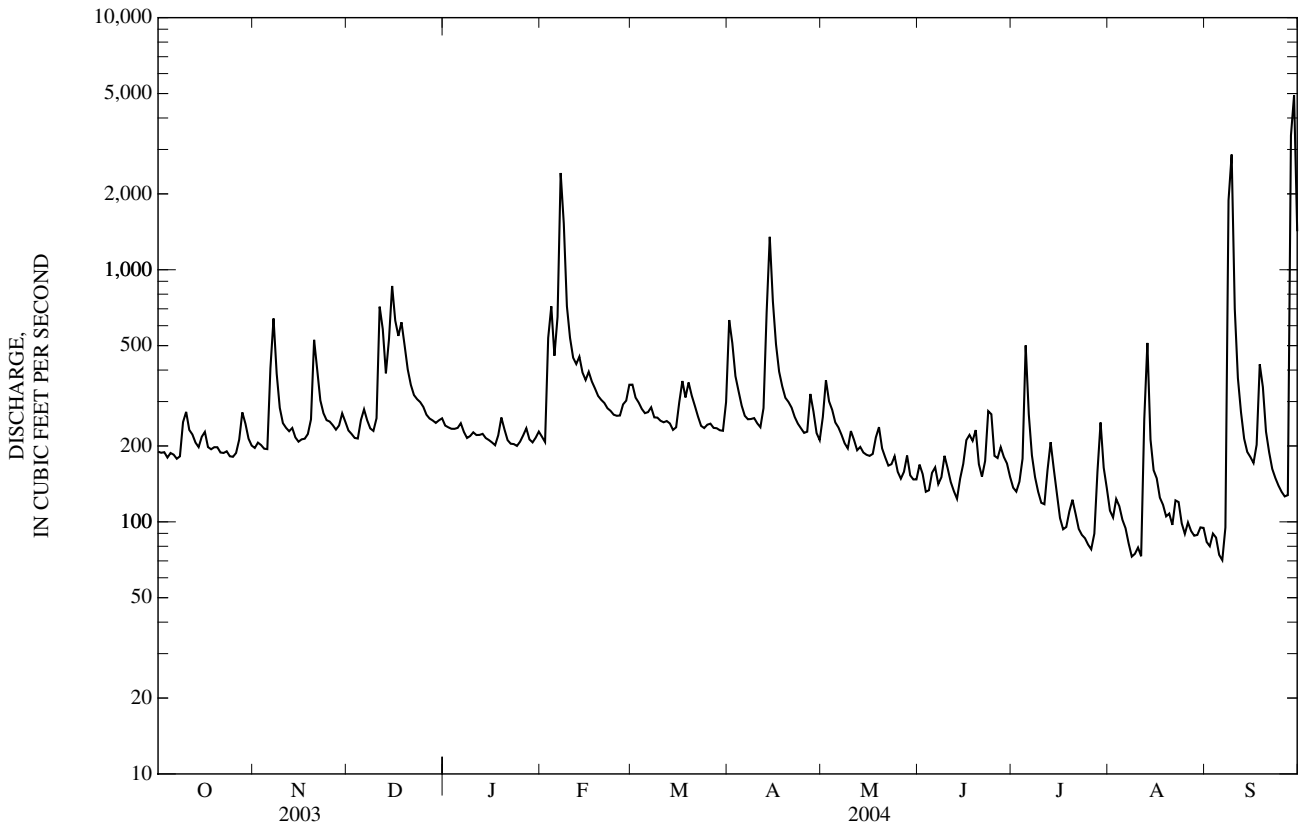


02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	193,477		105,986			
ANNUAL MEAN	530		290		340	
HIGHEST ANNUAL MEAN					592	1960
LOWEST ANNUAL MEAN					87.0	2002
HIGHEST DAILY MEAN	11,800	Mar 21	4,920	Sep 29	11,800	Mar 21, 2003
LOWEST DAILY MEAN	126	Jan 29	70	Sep 6	3.0	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	144	Jan 13	83	Aug 5	3.3	Aug 9, 2002
MAXIMUM PEAK FLOW			5,460	Sep 29	14,900	Mar 21, 2003
MAXIMUM PEAK STAGE			14.17	Sep 29	20.28	Mar 21, 2003
INSTANTANEOUS LOW FLOW			68	Sep 6	2.8*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.73		0.946		1.11	
ANNUAL RUNOFF (INCHES)	23.52		12.88		15.10	
10 PERCENT EXCEEDS	902		411		583	
50 PERCENT EXCEEDS	301		222		235	
90 PERCENT EXCEEDS	183		109		112	

* See REMARKS.

e Estimated.



02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC—Continued

PRECIPITATION RECORDS

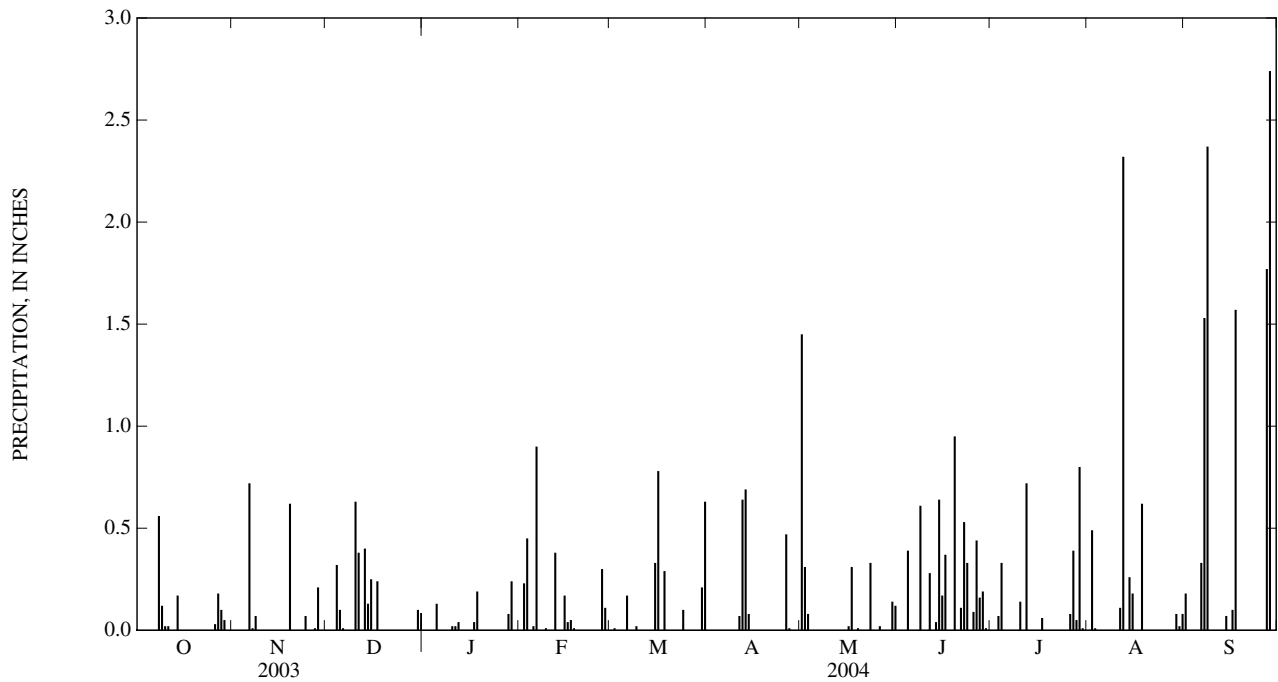
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

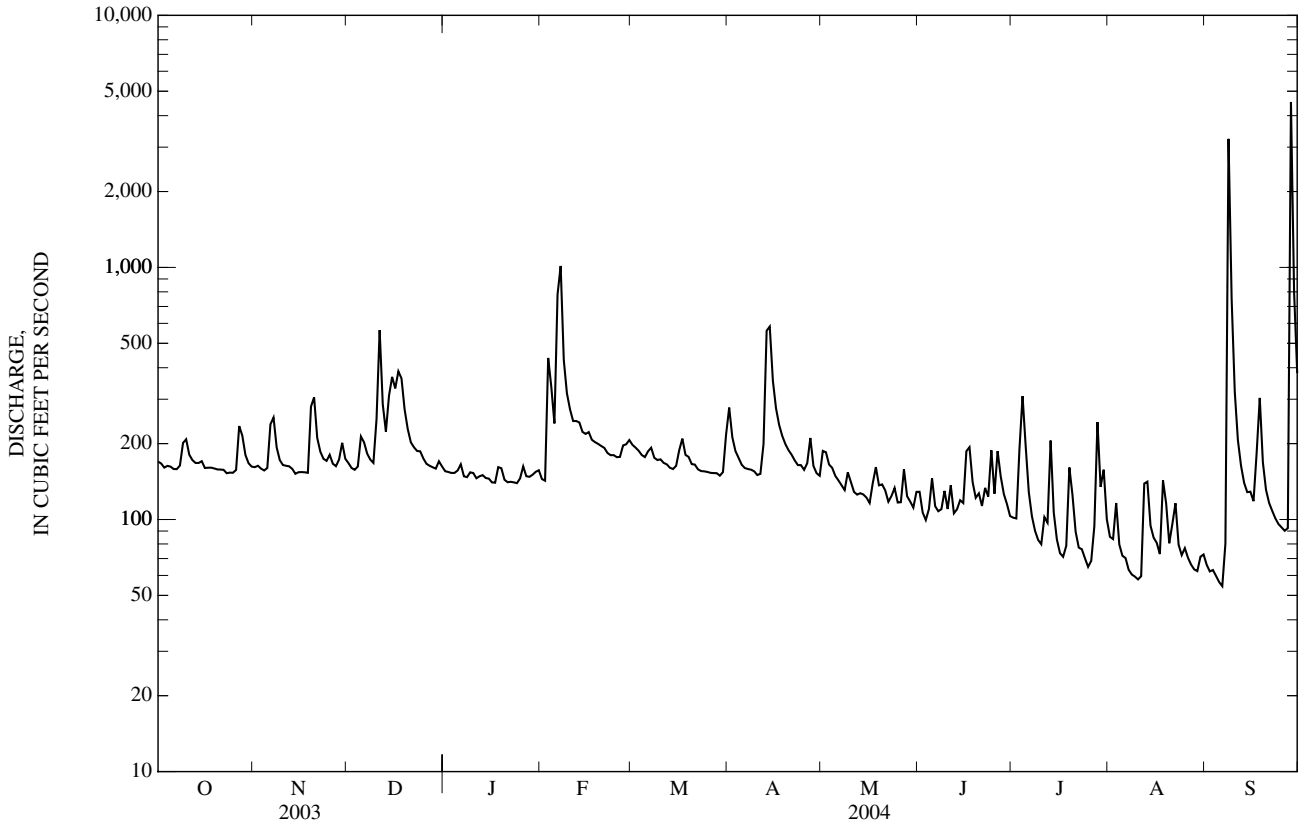
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.18
2	0.00	0.00	0.00	0.00	0.23	0.01	0.00	0.31	0.00	0.00	0.49	0.00
3	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.08	0.00	0.07	0.01	0.00
4	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.39	0.33	0.00	0.00
5	0.00	0.00	0.10	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.72	0.01	0.00	0.90	0.17	0.00	0.00	0.00	0.00	0.00	0.33
7	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53
8	0.56	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	2.37
9	0.12	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
10	0.02	0.00	0.63	0.02	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
11	0.02	0.00	0.38	0.02	0.00	0.00	0.07	0.00	0.28	0.00	0.11	0.00
12	0.00	0.00	0.00	0.04	0.38	0.00	0.64	0.00	0.00	0.72	2.32	0.00
13	0.00	0.00	0.40	0.00	0.00	0.00	0.69	0.00	0.04	0.00	0.00	0.00
14	0.17	0.00	0.13	0.00	0.00	0.00	0.08	0.00	0.64	0.00	0.26	0.07
15	0.00	0.00	0.25	0.00	0.17	0.33	0.00	0.00	0.17	0.00	0.18	0.00
16	0.00	0.00	0.00	0.00	0.04	0.78	0.00	0.02	0.37	0.00	0.00	0.10
17	0.00	0.00	0.24	0.04	0.05	0.00	0.00	0.31	0.00	0.06	0.00	1.57
18	0.00	0.00	0.00	0.19	0.01	0.29	0.00	0.00	0.00	0.00	0.62	0.00
19	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.01	0.95	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.00	0.00	0.00
24	0.00	0.07	0.00	0.00	0.00	0.10	0.00	---	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.09	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	0.00	0.00	0.47	0.02	0.44	0.08	0.00	0.00
27	0.18	0.01	0.00	0.00	0.30	0.00	0.01	0.00	0.16	0.39	0.00	1.77
28	0.10	0.21	0.00	0.08	0.11	0.00	0.00	0.00	0.19	0.05	0.00	2.74
29	0.05	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.01	0.80	0.08	0.00
30	0.00	0.00	0.10	0.00	---	0.21	0.00	0.14	0.00	0.01	0.02	0.00
31	0.00	---	0.00	0.00	---	0.63	---	0.12	---	0.00	0.08	---
TOTAL	1.25	1.71	2.56	0.76	2.67	2.54	1.96	---	5.31	2.65	4.17	10.66



02118500 HUNTING CREEK NEAR HARMONY, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	113,463		69,501		203	
ANNUAL MEAN	311		190		61.7	
HIGHEST ANNUAL MEAN					346	1960
LOWEST ANNUAL MEAN					61.7	2002
HIGHEST DAILY MEAN	6,600	Mar 20	4,530	Sep 28	10,400	Sep 22, 1979
LOWEST DAILY MEAN	100	Jan 18	54	Sep 6	5.4	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	101	Jan 17	62	Aug 31	7.0	Aug 8, 2002
MAXIMUM PEAK FLOW			6,650	Sep 28	14,800	Sep 22, 1979
MAXIMUM PEAK STAGE			17.25	Sep 28	25.05*	Sep 22, 1979
INSTANTANEOUS LOW FLOW			54*	Sep 5	5.0*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.01		1.23		1.31	
ANNUAL RUNOFF (INCHES)	27.23		16.68		17.76	
10 PERCENT EXCEEDS	458		242		333	
50 PERCENT EXCEEDS	221		158		141	
90 PERCENT EXCEEDS	132		82		67	

* See REMARKS.



02118500 HUNTING CREEK NEAR HARMONY, NC—Continued

PRECIPITATION RECORDS

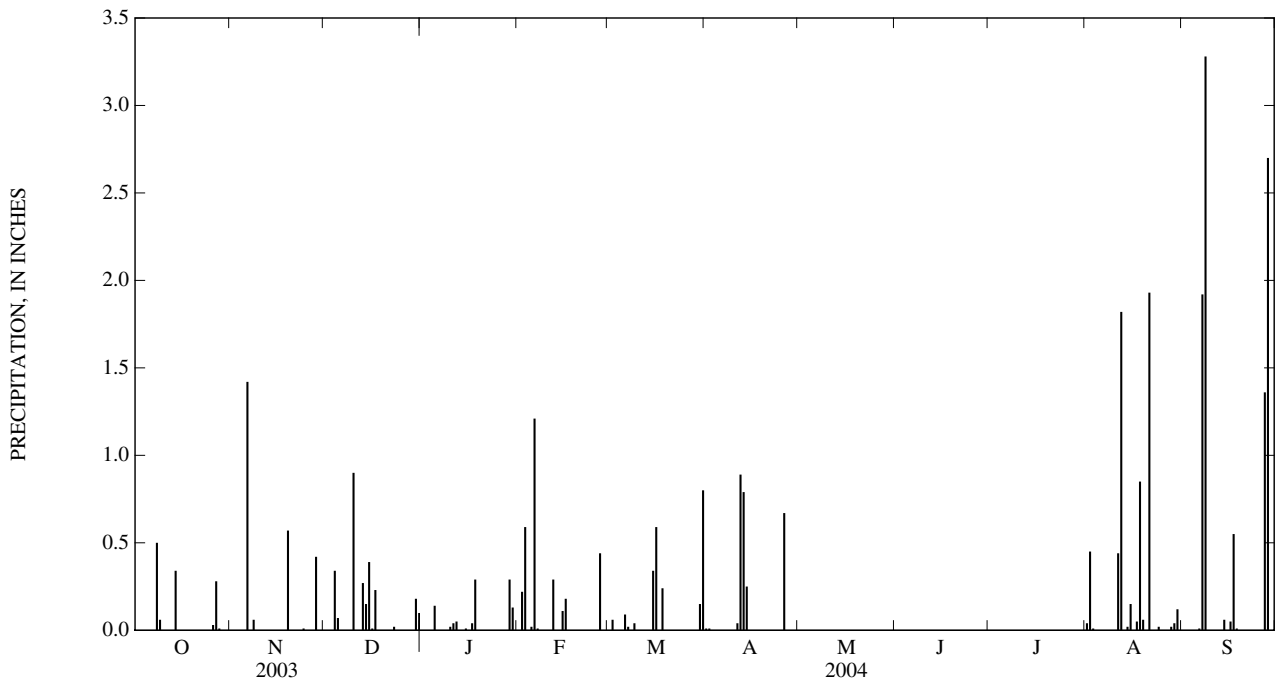
PERIOD OF RECORD.--October 2003 to September 2004.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

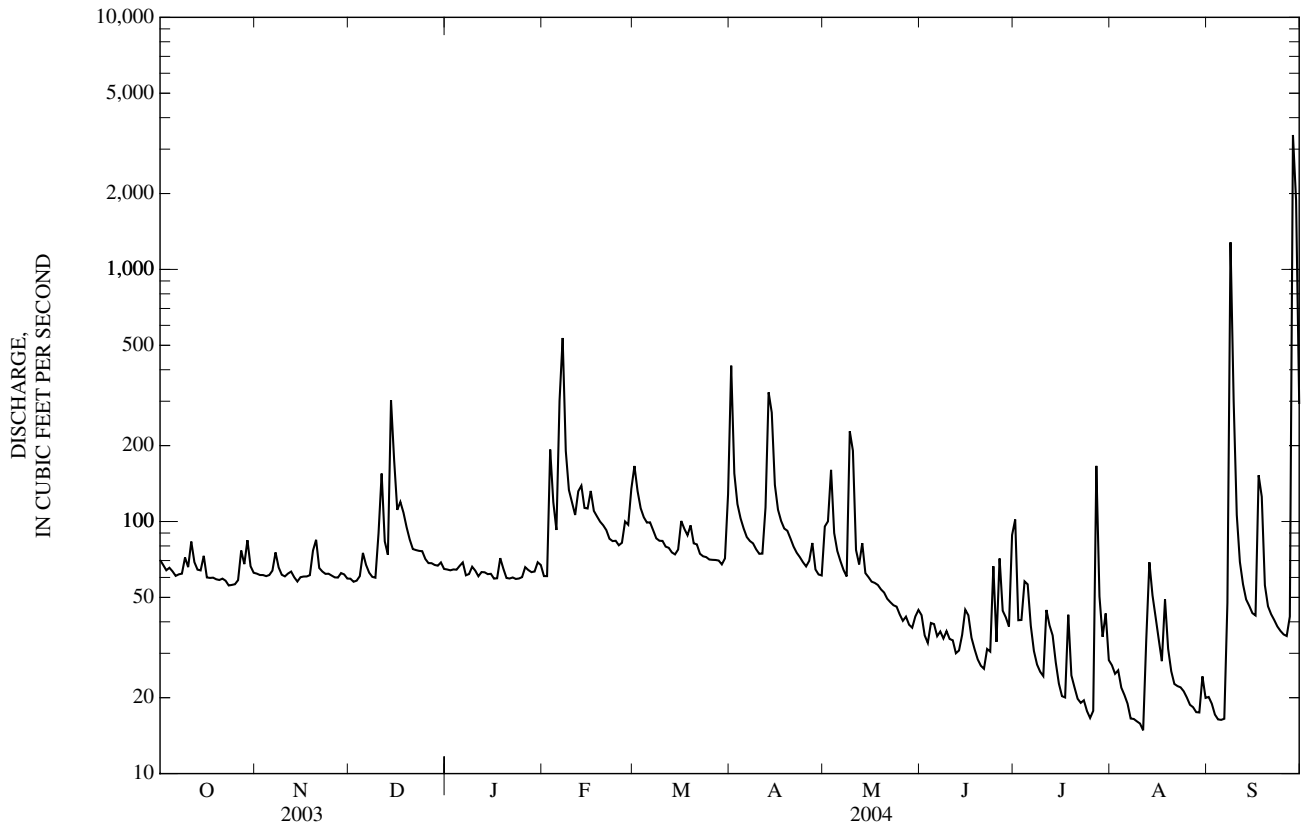
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	---	---	---	0.04	0.00
2	0.00	0.00	0.00	0.00	0.22	0.06	0.01	---	---	---	0.45	0.00
3	0.00	0.00	0.00	0.00	0.59	0.00	0.00	---	---	---	0.01	0.00
4	0.00	0.00	0.34	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
5	0.00	0.00	0.07	0.14	0.02	0.00	0.00	---	---	---	0.00	0.00
6	0.00	1.42	0.00	0.00	1.21	0.09	0.00	---	---	---	0.00	0.01
7	0.00	0.00	0.00	0.00	0.01	0.02	0.00	---	---	---	0.00	1.92
8	0.50	0.06	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	3.28
9	0.06	0.00	0.00	0.00	0.00	0.04	0.00	---	---	---	0.00	0.00
10	0.00	0.00	0.90	0.02	0.00	0.00	0.00	---	---	---	0.00	0.00
11	0.00	0.00	0.00	0.04	0.00	0.00	0.04	---	---	---	0.44	0.00
12	0.00	0.00	0.00	0.05	0.29	0.00	0.89	---	---	---	1.82	0.00
13	0.00	0.00	0.27	0.00	0.00	0.00	0.79	---	---	---	0.00	0.00
14	0.34	0.00	0.15	0.00	0.00	0.00	0.25	---	---	---	0.02	0.06
15	0.00	0.00	0.39	0.01	0.11	0.34	0.00	---	---	---	0.15	0.00
16	0.00	0.00	0.01	0.00	0.18	0.59	0.00	---	---	---	0.00	0.05
17	0.00	0.00	0.23	0.04	0.00	0.00	0.00	---	---	---	0.05	0.55
18	0.00	0.00	0.00	0.29	0.00	0.24	0.00	---	---	---	0.85	0.01
19	0.00	0.57	0.00	0.00	0.00	0.00	0.00	---	---	---	0.06	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	1.93	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
23	0.00	0.00	0.02	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	---	---	---	0.02	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
26	0.03	0.00	0.00	0.00	0.00	0.00	0.67	---	---	---	0.00	0.00
27	0.28	0.00	0.00	0.00	0.44	0.00	0.00	---	---	---	0.00	1.36
28	0.01	0.42	0.00	0.00	0.00	0.00	0.00	---	---	---	0.02	2.70
29	0.00	0.00	0.00	0.29	0.00	0.00	0.00	---	---	---	0.04	0.00
30	0.00	0.00	0.18	0.13	---	0.15	---	---	---	---	0.12	0.00
31	0.00	---	0.00	0.00	---	0.80	---	---	---	---	0.00	---
TOTAL	1.22	2.48	2.56	1.01	3.07	2.33	---	---	---	---	6.02	9.94



02120780 SECOND CREEK NEAR BARBER, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1979 - 2004	
ANNUAL TOTAL	76,345		32,328		104	
ANNUAL MEAN	209		88.3		216	
HIGHEST ANNUAL MEAN					21.0	2003
LOWEST ANNUAL MEAN					21.0	2002
HIGHEST DAILY MEAN	4,100	Apr 11	3,410	Sep 28	5,280	Aug 28, 1995
LOWEST DAILY MEAN	38	Jan 25	15	Aug 11	1.1	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	40	Jan 20	17	Aug 5	1.2	Sep 8, 2002
MAXIMUM PEAK FLOW			4,840	Sep 28	8,560	Aug 28, 1995
MAXIMUM PEAK STAGE			15.64	Sep 28	17.28	Aug 28, 1995
INSTANTANEOUS LOW FLOW			11	Aug 11	1.1*	Aug 10, 2002
ANNUAL RUNOFF (CFSM)	1.77		0.749		0.879	
ANNUAL RUNOFF (INCHES)	24.07		10.19		11.94	
10 PERCENT EXCEEDS	377		113		166	
50 PERCENT EXCEEDS	89		62		62	
90 PERCENT EXCEEDS	56		25		17	

* See REMARKS.



02120780 SECOND CREEK NEAR BARBER, NC—Continued

PRECIPITATION RECORDS

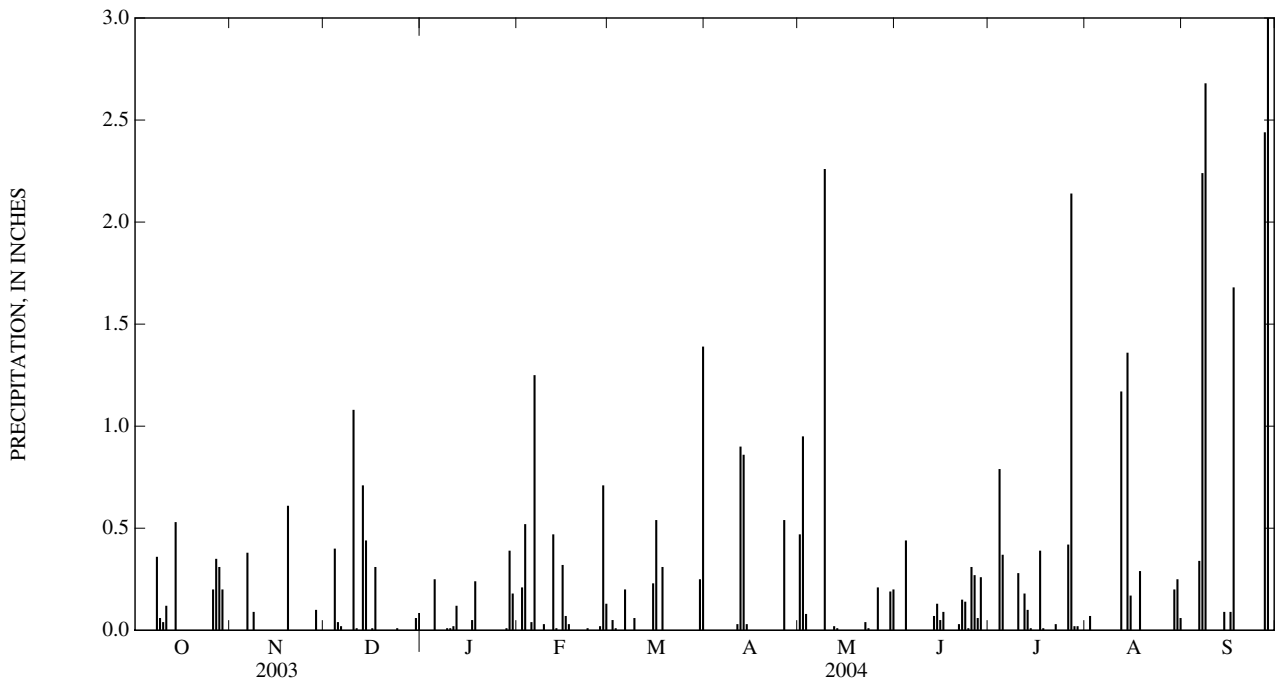
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.21	0.05	0.00	0.95	0.00	0.00	0.07	0.00
3	0.00	0.00	0.00	0.00	0.52	0.01	0.00	0.08	0.00	0.00	0.00	0.00
4	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.44	0.79	0.00	0.00
5	0.00	0.00	0.04	0.25	0.04	0.00	0.00	0.00	0.00	0.37	0.00	0.00
6	0.00	0.38	0.02	0.00	1.25	0.20	0.00	0.00	0.00	0.00	0.00	0.34
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24
8	0.36	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68
9	0.06	0.00	0.00	0.01	0.03	0.06	0.00	2.26	0.00	0.00	0.00	0.00
10	0.04	0.00	1.08	0.01	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00
11	0.12	0.00	0.01	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.12	0.47	0.00	0.90	0.02	0.00	0.18	1.17	0.00
13	0.00	0.00	0.71	0.00	0.01	0.00	0.86	0.01	0.07	0.10	0.00	0.00
14	0.53	0.00	0.44	0.00	0.00	0.00	0.03	0.00	0.13	0.01	1.36	0.09
15	0.00	0.00	0.00	0.00	0.32	0.23	0.00	0.00	0.05	0.00	0.17	0.00
16	0.00	0.00	0.01	0.00	0.07	0.54	0.00	0.00	0.09	0.00	0.00	0.09
17	0.00	0.00	0.31	0.05	0.03	0.00	0.00	0.00	0.00	0.39	0.00	1.68
18	0.00	0.00	0.00	0.24	0.00	0.31	0.00	0.00	0.00	0.01	0.29	0.00
19	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	0.03	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.14	0.00	0.00	0.00
24	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00
26	0.20	0.00	0.00	0.00	0.00	0.00	0.54	0.21	0.27	0.42	0.00	0.00
27	0.35	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.06	2.14	0.00	2.44
28	0.31	0.10	0.00	0.01	0.71	0.00	0.00	0.00	0.26	0.02	0.00	3.00
29	0.20	0.00	0.00	0.39	0.13	0.00	0.00	0.00	0.00	0.02	0.20	0.00
30	0.00	0.00	0.06	0.18	---	0.25	0.00	0.19	0.00	0.00	0.25	0.00
31	0.00	---	0.00	0.00	---	1.39	---	0.20	---	0.00	0.06	---
TOTAL	2.17	1.18	3.09	1.28	3.82	3.04	2.36	4.44	2.01	4.76	3.57	12.56



02121500 ABBOTTS CREEK AT LEXINGTON, NC

LOCATION.--Lat 35°48'25", long 80°14'05", Davidson County, Hydrologic Unit 03040103, on right bank 150 ft upstream from bridge on Secondary Road 1243, 1.5 mi southeast of Lexington, and 4.5 mi downstream of Rich Fork Creek.

DRAINAGE AREA.--174 mi².

PERIOD OF RECORD.--March 1940 to December 1957. October 1988 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 630 ft above NGVD of 1929, from topographic map. March 1940 to December 1957 at site 100 ft upstream at different datum. Satellite telemetry at station. Raingage located .5 mi upstream.

REMARKS.--No estimated daily discharges. Records fair. The City of Lexington diverted an average of 5.6 ft³/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 6.2 ft³/s of treated sewage effluent into Rich Fork Creek, upstream from station. Maximum discharge at former site, 14,800 ft³/s, from floodmark; minimum discharge at former site 0.4 ft³/s. Minimum discharge for period of record also occurred Sept. 5, 1990. Minimum discharge for current water year also occurred Sept. 6, 7.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	76	66	84	94	492	229	68	41	75	53	30
2	107	71	61	82	82	588	150	122	34	53	42	24
3	93	68	58	83	346	407	120	184	30	49	53	21
4	88	67	60	84	394	256	107	154	41	184	53	19
5	87	68	89	85	189	213	93	99	111	281	34	18
6	83	76	100	106	272	202	86	76	54	217	29	16
7	81	131	79	84	1,400	227	86	67	40	76	38	22
8	85	101	70	73	583	185	84	60	42	51	28	1,230
9	112	78	67	78	245	165	81	55	95	42	22	3,920
10	111	66	106	87	207	164	79	52	98	37	20	654
11	99	65	571	75	187	153	77	50	58	37	18	184
12	92	66	257	72	203	148	156	47	45	202	18	168
13	81	65	153	76	252	143	676	48	35	90	23	168
14	83	58	734	74	197	139	1,150	55	47	56	192	156
15	110	58	818	74	187	151	380	47	62	46	181	99
16	88	60	420	70	284	202	226	43	57	35	83	52
17	70	61	399	65	235	324	184	50	48	61	49	448
18	68	63	488	78	201	238	172	47	40	264	102	1,560
19	66	92	288	95	186	344	157	61	46	102	99	404
20	64	165	216	75	176	192	129	52	44	50	52	143
21	63	96	165	67	168	161	112	52	56	35	38	91
22	64	76	135	65	156	139	93	44	35	27	34	66
23	61	68	120	66	150	121	84	40	28	25	28	56
24	58	65	117	65	146	113	79	45	178	23	25	49
25	58	66	111	68	145	108	74	45	58	19	23	43
26	59	63	96	78	139	105	73	37	165	16	21	39
27	80	61	91	75	168	104	113	36	218	146	19	47
28	102	66	89	73	189	101	84	41	174	353	18	3,410
29	174	94	86	80	284	93	69	33	314	152	17	4,590
30	142	78	91	110	---	94	64	42	151	171	17	601
31	89	---	96	123	---	125	---	53	---	73	25	---
TOTAL	2,736	2,288	6,297	2,470	7,465	6,197	5,267	1,905	2,445	3,048	1,454	18,328
MEAN	88.3	76.3	203	79.7	257	200	176	61.5	81.5	98.3	46.9	611
MAX	174	165	818	123	1,400	588	1,150	184	314	353	192	4,590
MIN	58	58	58	65	82	93	64	33	28	16	17	16
CFSM	0.51	0.44	1.17	0.46	1.48	1.15	1.01	0.35	0.47	0.57	0.27	3.51
IN.	0.58	0.49	1.35	0.53	1.60	1.32	1.13	0.41	0.52	0.65	0.31	3.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004,® BY WATER YEAR (WY)

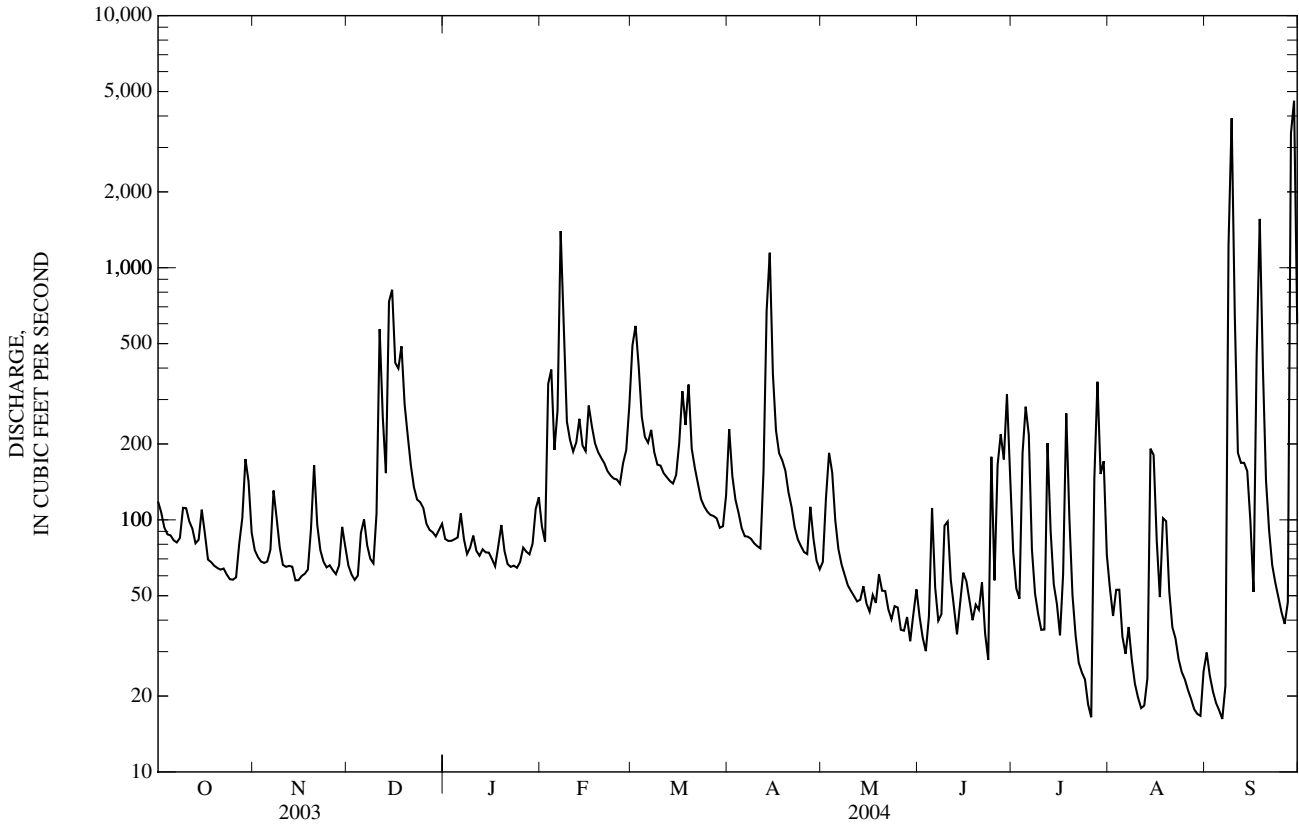
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	157	117	151	247	286	359	276	167	110	71.0	69.0	156					
MAX	731	375	542	554	753	810	810	515	615	290	352	835					
(WY)	(1990)	(2003)	(2003)	(1998)	(1990)	(2003)	(2003)	(1989)	(2003)	(2003)	(2003)	(2003)					
MIN	8.08	10.3	22.4	55.9	55.4	83.7	44.4	19.4	21.2	21.6	14.9	13.5					
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2002)	(1999)	(1996)	(1990)	(2001)					

02121500 ABBOTTS CREEK AT LEXINGTON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004 [@]	
ANNUAL TOTAL	152,064		59,900		180	
ANNUAL MEAN	417		164		45.8	
HIGHEST ANNUAL MEAN					487	2003
LOWEST ANNUAL MEAN					45.8	2002
HIGHEST DAILY MEAN	8,000	Sep 23	4,590	Sep 29	8,000	Sep 23, 2003
LOWEST DAILY MEAN	58	Oct 24	16	Jul 26	2.7	Sep 4, 1990
ANNUAL SEVEN-DAY MINIMUM	61	Oct 20	20	Aug 24	3.9	Sep 1, 1990
MAXIMUM PEAK FLOW			6,210	Sep 28	11,800*	Sep 23, 2003
MAXIMUM PEAK STAGE			18.07	Sep 28	23.48	Sep 23, 2003
INSTANTANEOUS LOW FLOW			16*	Jul 26	2.4*	Sep 4, 1990
ANNUAL RUNOFF (CFSM)	2.39		0.941		1.03	
ANNUAL RUNOFF (INCHES)	32.51		12.81		14.05	
10 PERCENT EXCEEDS	825		256		342	
50 PERCENT EXCEEDS	166		83		74	
90 PERCENT EXCEEDS	68		35		15	

[@] See PERIOD OF RECORD.

* See REMARKS.



354855080134201 ABBOTTS CREEK PRECIPITATION

LOCATION.--Lat 35°48'55", long 80°13'42", Davidson County, Hydrologic Unit 03040103, in North Carolina Department of Transportation maintenance yard on Raleigh Road, at Lexington.

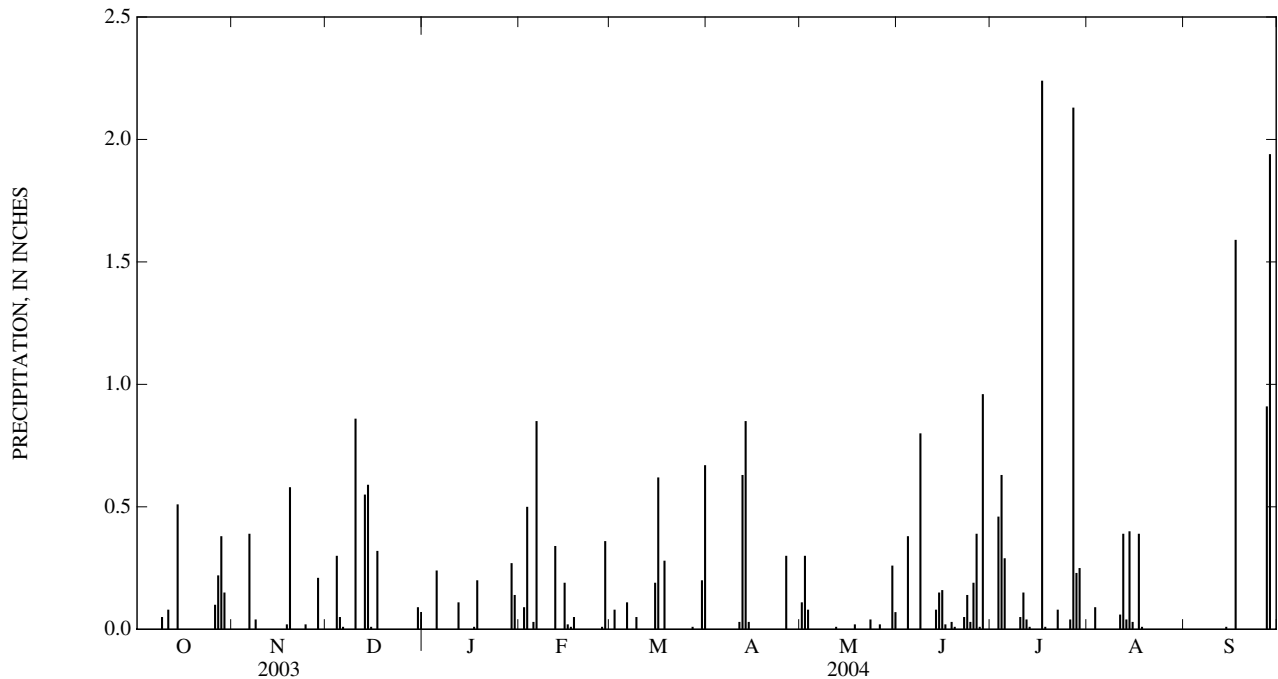
PERIOD OF RECORD.--October 2003 to September 2004

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	---
2	0.00	0.00	0.00	0.00	0.09	0.08	0.00	0.30	0.00	0.00	0.00	---
3	---	0.00	0.00	0.00	0.50	0.00	0.00	0.08	0.00	0.46	0.09	---
4	---	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.38	0.63	0.00	---
5	---	0.00	0.05	0.24	0.03	0.00	0.00	0.00	0.00	0.29	0.00	---
6	---	0.39	0.01	0.00	0.85	0.11	0.00	0.00	0.00	0.00	0.00	---
7	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
8	---	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	---
9	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	---
10	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	---
11	0.08	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.15	0.06	---
12	0.00	0.00	0.00	0.11	0.34	0.00	0.63	0.01	0.00	0.04	0.39	---
13	0.00	0.00	0.55	0.00	0.00	0.00	0.85	0.00	0.08	0.01	0.04	---
14	0.51	0.00	0.59	0.00	0.00	0.00	0.03	0.00	0.15	0.00	0.40	0.01
15	0.00	0.00	0.01	0.00	0.19	0.19	0.00	0.00	0.16	0.00	0.03	0.00
16	0.00	0.00	0.00	0.00	0.02	0.62	0.00	0.00	0.02	0.00	0.00	0.00
17	0.00	0.00	0.32	0.01	0.01	0.00	0.00	0.00	0.00	2.24	0.39	1.59
18	0.00	0.02	0.00	0.20	0.05	0.28	0.00	0.02	0.03	0.01	0.01	0.00
19	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14	0.00	---	0.00
24	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	---	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	---	0.00
26	0.10	0.00	0.00	0.00	0.00	0.00	0.30	0.02	0.39	0.04	---	0.00
27	0.22	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	2.13	---	0.91
28	0.38	0.21	0.00	0.00	0.36	0.00	0.00	0.00	0.96	0.23	---	1.94
29	0.15	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.25	---	0.00
30	0.00	0.00	0.09	0.14	---	0.20	0.00	0.26	0.00	0.00	---	0.00
31	0.00	---	0.00	0.00	---	0.67	---	0.07	---	0.00	---	---
TOTAL	---	1.26	2.78	0.97	2.45	2.21	1.84	0.91	3.40	6.61	---	---



02122400 HIGH ROCK LAKE AT HIGH ROCK, NC

LOCATION.--Lat 35°36'02", long 80°14'00", Davidson County, Hydrologic Unit 03040103, High Rock Lake Dam.

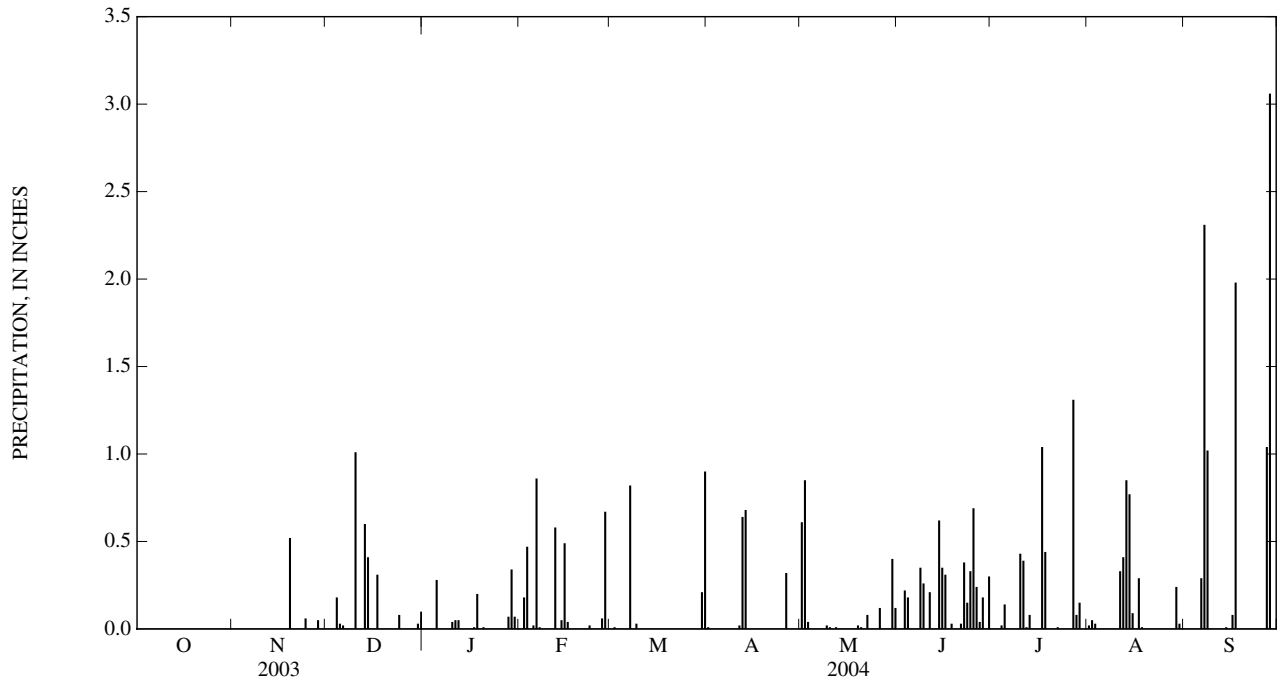
PERIOD OF RECORD.--September 1996 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	0.00	0.00	0.00	0.00	0.01	0.61	0.00	0.00	0.02	0.00
2	0.00	---	0.00	0.00	0.18	0.01	0.00	0.85	0.00	0.00	0.05	0.00
3	0.00	---	0.00	0.00	0.47	0.00	0.00	0.04	0.22	0.00	0.03	0.00
4	0.00	---	0.18	0.00	0.00	---	0.00	0.00	0.18	0.02	0.00	0.00
5	0.00	---	0.03	0.28	0.02	---	0.00	0.00	0.00	0.14	0.00	0.00
6	0.00	---	0.02	0.00	0.86	---	0.00	0.00	0.00	0.00	0.00	0.29
7	0.00	---	0.00	0.00	0.01	0.82	0.00	0.00	0.00	0.00	0.00	2.31
8	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	1.02
9	---	---	0.00	0.00	0.00	0.03	0.00	0.02	0.26	0.00	0.00	0.00
10	---	---	1.01	0.04	0.00	0.00	0.00	0.01	0.00	0.43	0.00	0.00
11	---	0.00	0.00	0.05	0.00	---	0.02	0.00	0.21	0.39	0.33	0.00
12	---	0.00	0.00	0.05	0.58	---	0.64	0.01	0.00	0.01	0.41	0.00
13	---	0.00	0.60	0.00	0.00	---	0.68	0.00	0.00	0.08	0.85	0.00
14	---	0.00	0.41	0.00	0.05	---	0.00	0.00	0.62	0.00	0.77	0.01
15	---	0.00	0.00	0.00	0.49	---	0.00	0.00	0.35	0.00	0.09	0.00
16	---	0.00	0.00	0.00	0.04	---	0.00	0.00	0.31	0.00	0.00	0.08
17	---	0.00	0.31	0.01	0.00	---	0.00	0.00	0.00	1.04	0.29	1.98
18	---	0.00	0.00	0.20	0.00	---	0.00	0.00	0.03	0.44	0.01	0.00
19	---	0.52	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
20	---	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
22	---	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.38	0.01	0.00	0.00
23	---	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.15	0.00	0.00	0.00
24	---	0.06	0.08	0.00	0.00	---	0.00	0.00	0.33	0.00	0.00	0.00
25	---	0.00	0.00	0.00	0.00	---	0.00	0.00	0.69	0.00	0.00	0.00
26	---	0.00	0.00	0.00	0.00	---	0.32	0.12	0.24	0.00	0.00	0.00
27	---	0.00	0.00	0.00	0.06	---	0.00	0.00	0.04	1.31	0.00	1.04
28	---	0.05	0.00	0.07	0.67	---	0.00	0.00	0.18	0.08	0.00	3.06
29	---	0.00	0.00	0.34	0.00	---	0.00	0.00	0.00	0.15	0.24	0.00
30	---	0.00	0.03	0.07	---	0.21	0.00	0.40	0.30	0.00	0.03	0.00
31	---	---	0.00	0.00	---	0.90	---	0.12	---	0.00	0.00	---
TOTAL	---	---	2.67	1.12	3.45	---	1.67	2.29	4.87	4.10	3.12	9.79



02122699 TUCKERTOWN RESERVOIR NEAR NEW LONDON, NC

LOCATION.--Lat 35°29'09", long 80°10'32", Montgomery County, Hydrologic Unit 03040103, Tuckertown Reservoir Dam.

PERIOD OF RECORD.-- October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

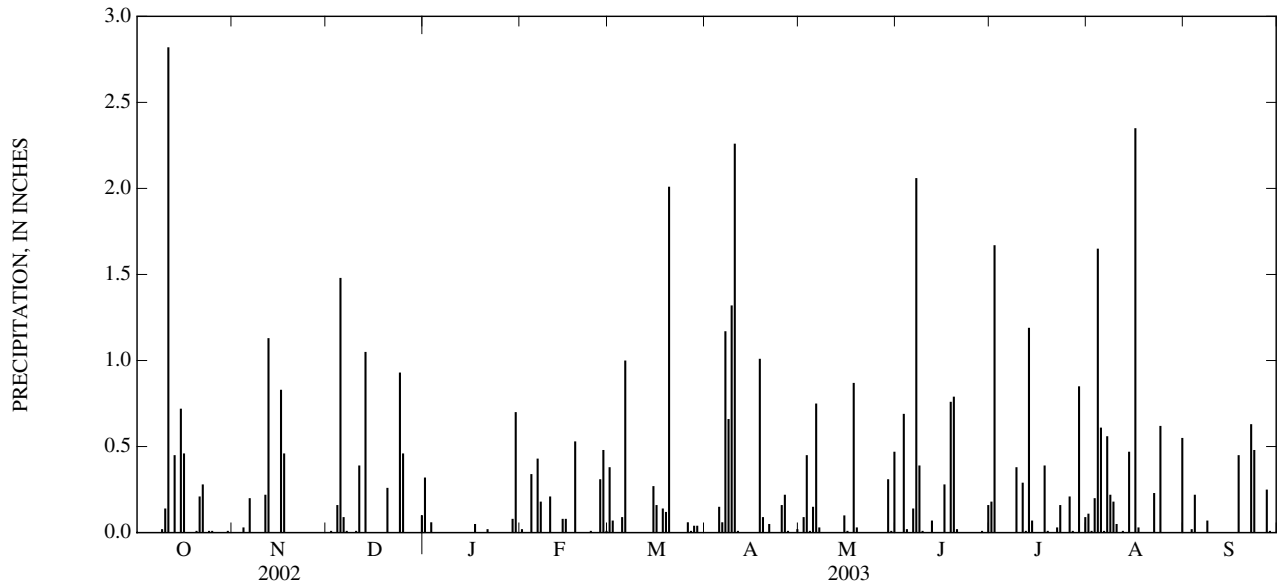
REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

REVISIONS.--Revised daily totals, in inches, for periods in September 2002 are given below. These figures supersede those published in the report for 2002. Revised figures of precipitation for the water year 2003, superseding those published in the report for 2003 are given below.

Date	Total	Date	Total	Date	Total
Sep 14	0.16	Sep 18	1.13	Sep 27	0.10
Sep 15	1.32	Sep 26	0.47		

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY SUM VALUES

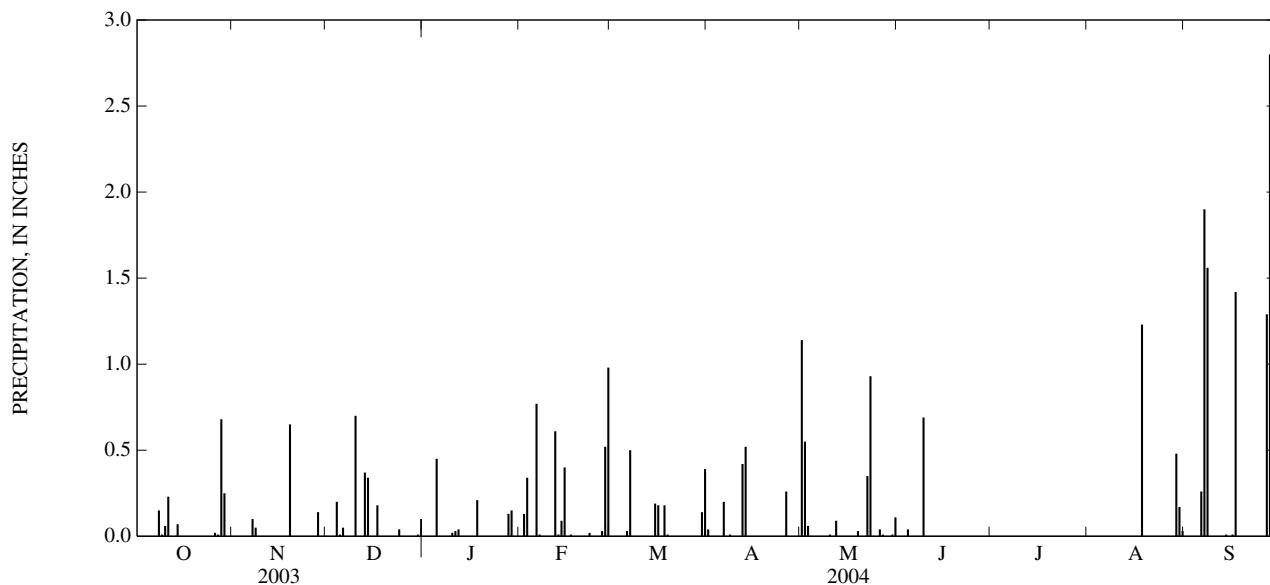
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.32	0.02	0.38	0.00	0.00	0.00	0.18	0.11	0.00
2	0.00	0.00	0.01	0.00	0.00	0.07	0.00	0.09	0.00	1.67	0.01	0.00
3	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.45	0.69	0.00	0.20	0.02
4	0.00	0.03	0.16	0.00	0.34	0.00	0.00	0.01	0.02	0.00	1.65	0.22
5	0.00	---	1.48	0.00	0.00	0.09	0.15	0.15	0.00	0.00	0.61	0.00
6	0.00	0.20	0.09	0.00	0.43	1.00	0.06	0.75	0.14	0.00	0.01	0.00
7	0.00	0.00	0.01	0.00	0.18	0.00	1.17	0.03	2.06	0.00	0.56	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.39	0.00	0.22	0.07
9	0.02	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.01	0.38	0.18	0.00
10	0.14	0.00	0.01	0.00	0.21	0.00	2.26	0.00	0.00	0.00	0.05	0.00
11	2.82	0.22	0.39	0.00	0.00	0.00	0.01	0.00	0.00	0.29	0.00	0.00
12	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.01	0.00
13	0.45	0.00	1.05	0.00	0.00	---	0.00	0.00	0.00	1.19	0.00	0.00
14	0.00	0.00	0.00	0.00	0.08	---	0.00	0.00	0.00	0.07	0.47	0.00
15	0.72	0.00	0.00	0.00	0.08	0.27	0.00	0.10	0.00	0.00	0.00	0.00
16	0.46	0.83	0.00	0.00	0.00	0.16	0.00	0.01	0.28	0.00	2.35	0.00
17	0.00	0.46	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
18	0.00	0.00	0.00	0.00	0.53	0.14	1.01	0.87	0.76	0.39	0.00	0.45
19	0.00	0.00	0.00	0.00	0.00	0.12	0.09	0.03	0.79	0.01	0.00	0.00
20	0.01	0.00	0.26	0.00	---	2.01	0.00	---	0.02	0.00	0.00	0.00
21	0.21	0.00	0.00	0.02	---	0.00	0.05	---	0.00	0.00	0.00	0.00
22	0.28	0.00	0.00	0.00	---	0.00	0.00	---	0.00	0.03	0.23	0.63
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	---	0.00	0.16	0.00	0.48
24	0.01	0.00	0.93	0.00	0.00	0.00	0.00	---	0.00	0.00	0.62	0.00
25	0.01	0.00	0.46	0.00	0.00	0.00	0.16	---	---	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.31	0.06	0.22	---	---	0.21	0.00	0.00
27	---	0.00	0.00	0.00	0.48	0.01	0.01	---	---	0.01	0.00	0.25
28	---	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.01	0.00	0.00	0.01
29	---	0.00	0.00	0.08	---	0.04	0.00	0.31	0.00	0.85	0.00	0.00
30	0.01	0.00	0.00	0.70	---	---	0.02	0.01	0.16	0.00	0.00	0.00
31	0.00	---	0.10	0.00	---	0.00	---	0.47	---	0.09	0.55	---
TOTAL	---	---	4.95	1.23	---	---	7.19	---	---	5.54	7.86	2.13



02122699 TUCKERTOWN RESERVOIR NEAR NEW LONDON, NC—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.14	0.00	---	---	0.00
2	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.55	0.00	---	---	0.00
3	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.06	0.00	---	---	0.00
4	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.04	---	---	0.00
5	0.00	0.00	0.01	0.45	0.00	0.00	0.00	0.00	0.00	---	---	0.00
6	0.00	0.00	0.05	0.00	0.77	0.03	0.20	0.00	0.00	---	---	0.26
7	0.00	0.10	0.00	0.00	0.01	0.50	0.00	0.00	0.00	---	---	1.90
8	0.15	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	---	---	1.56
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	---	---	0.00
10	0.06	0.00	0.70	0.02	0.00	0.00	0.00	0.01	---	---	---	0.00
11	0.23	0.00	0.00	0.03	0.00	0.00	0.00	0.00	---	---	---	0.00
12	0.00	0.00	0.00	0.04	0.61	0.00	0.42	0.09	---	---	---	0.00
13	0.00	0.00	0.37	0.00	0.01	0.00	0.52	0.00	---	---	---	0.00
14	0.07	0.00	0.34	0.00	0.09	0.00	0.00	0.00	---	---	---	0.01
15	0.00	0.00	0.00	0.00	0.40	0.19	0.00	0.00	---	---	---	0.00
16	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	---	---	---	0.01
17	0.00	0.00	0.18	0.00	0.01	0.00	0.00	0.00	---	---	---	1.42
18	0.00	0.00	0.00	0.21	0.00	0.18	0.00	0.00	---	---	1.23	0.00
19	0.00	0.65	0.00	0.00	0.00	0.01	0.00	0.03	---	---	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	---	---	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.93	---	---	0.00	0.00
24	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
26	0.02	0.00	0.00	0.00	0.00	0.00	0.26	0.04	---	---	0.00	0.00
27	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.01	---	---	0.00	1.29
28	0.68	0.14	0.00	0.13	0.52	0.00	0.00	0.00	---	---	0.00	2.80
29	0.25	0.00	0.00	0.15	0.98	0.00	0.00	0.00	---	---	0.48	0.00
30	0.00	0.00	0.01	0.00	---	0.14	0.00	0.01	---	---	0.17	0.00
31	0.00	---	0.00	0.00	---	0.39	---	0.11	---	---	0.03	---
TOTAL	1.48	0.94	1.90	1.03	3.92	1.62	1.45	3.33	---	---	---	9.25



02123567 DUTCHMANS CREEK NEAR UWHARRIE, NC

LOCATION.--Lat 35°22'45", long 80°01'49", Montgomery County, Hydrologic Unit 03040104, near midstream at upstream end of two 6-ft corrugated metal-pipe culverts on Secondary Road 1150, 1.0 mi upstream from mouth, and 3.0 mi southwest of Uwharrie.

DRAINAGE AREA.--3.44 mi².

PERIOD OF RECORD.--October 1981 to September 1983, October 1985 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 340 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmark. No flow also occurred June 23-25, July 8, 9, 19, Aug. 9-15, 2002. Minimum discharge for current water year also occurred Aug. 11, 12. Peak stage for current water year from floodmark inside stilling well.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.3	2.3	2.1	2.2	9.7	3.4	5.0	1.0	0.67	0.33	0.72
2	2.5	2.3	2.2	2.1	2.2	7.4	2.6	8.6	0.82	0.61	0.33	0.64
3	e2.4	2.3	2.1	2.1	3.6	4.7	2.4	6.2	0.70	0.59	0.29	0.56
4	2.3	2.3	2.4	2.2	2.7	4.0	2.2	3.3	1.3	0.60	0.21	0.56
5	2.3	2.4	3.6	2.3	2.4	3.6	2.1	2.7	1.2	0.49	0.14	0.56
6	2.2	2.5	2.8	2.3	14	3.6	2.1	2.4	0.96	0.41	0.12	0.59
7	2.3	2.7	2.4	2.0	16	3.3	2.2	2.3	1.0	0.37	0.10	10
8	2.3	2.7	2.3	2.0	5.9	3.3	2.3	2.1	0.88	0.33	0.08	e100
9	2.7	2.4	2.3	2.1	4.6	3.2	2.2	2.1	1.3	0.30	0.08	e20
10	2.3	2.3	7.3	2.1	4.2	3.2	2.2	2.0	1.4	0.28	0.06	e5.0
11	2.8	2.4	6.3	2.1	3.8	3.1	2.3	1.9	0.96	0.26	0.06	e2.0
12	2.4	2.5	3.2	2.2	8.4	3.0	3.1	1.9	0.76	0.61	0.29	e1.5
13	2.2	2.4	2.7	2.2	5.8	2.8	4.3	2.0	0.71	0.46	5.9	e1.5
14	2.6	2.2	6.6	2.2	4.7	2.8	3.6	2.0	0.85	0.69	42	1.4
15	2.6	2.3	4.1	2.2	5.2	3.2	3.0	1.9	1.2	0.34	2.1	1.3
16	2.2	2.3	3.1	2.1	6.0	3.8	2.7	1.8	1.2	0.24	1.2	1.4
17	2.2	2.3	3.4	2.0	4.6	3.4	2.5	1.8	2.9	0.22	0.90	7.9
18	2.2	2.4	2.9	2.8	e4.2	3.1	2.5	1.6	2.0	4.9	0.77	3.0
19	2.2	5.6	2.7	2.4	e3.8	3.3	2.3	1.5	1.0	0.81	0.70	1.6
20	2.2	3.8	2.5	2.1	3.6	2.9	2.2	1.6	0.80	0.52	0.61	1.3
21	2.2	2.8	2.3	2.1	3.4	2.9	2.2	1.4	0.78	0.37	0.56	1.2
22	2.2	2.6	2.3	2.1	3.1	2.6	2.0	1.5	0.90	0.31	0.56	1.1
23	2.1	2.4	2.3	2.1	3.0	2.5	2.0	2.0	0.79	0.28	0.51	1.1
24	2.1	2.4	2.5	2.1	3.1	2.5	1.9	2.3	0.94	0.23	0.51	1.1
25	2.1	2.3	2.3	2.2	2.9	2.5	1.9	1.5	1.2	0.17	0.53	1.1
26	2.5	2.2	2.2	2.4	2.9	2.5	2.1	1.3	1.5	0.19	0.53	1.1
27	2.6	2.2	2.2	2.3	3.5	2.4	2.6	1.3	0.95	0.21	0.53	2.0
28	3.0	2.8	2.2	2.3	4.0	2.4	2.0	1.1	0.82	0.37	0.51	6.5
29	4.6	2.8	2.1	2.7	6.9	2.3	1.8	1.0	0.80	1.6	0.59	2.5
30	2.7	2.4	2.2	2.8	---	2.3	1.8	1.0	0.62	0.97	2.4	1.7
31	2.4	---	2.1	2.5	---	3.0	---	1.1	---	0.41	0.87	---
TOTAL	76.0	77.3	91.9	69.2	140.7	105.3	72.5	70.2	32.24	18.81	64.37	180.93
MEAN	2.45	2.58	2.96	2.23	4.85	3.40	2.42	2.26	1.07	0.61	2.08	6.03
MAX	4.6	5.6	7.3	2.8	16	9.7	4.3	8.6	2.9	4.9	42	100
MIN	2.1	2.2	2.1	2.0	2.2	2.3	1.8	1.0	0.62	0.17	0.06	0.56
CFSM	0.71	0.75	0.86	0.65	1.41	0.99	0.70	0.66	0.31	0.18	0.60	1.75
IN.	0.82	0.84	0.99	0.75	1.52	1.14	0.78	0.76	0.35	0.20	0.70	1.96

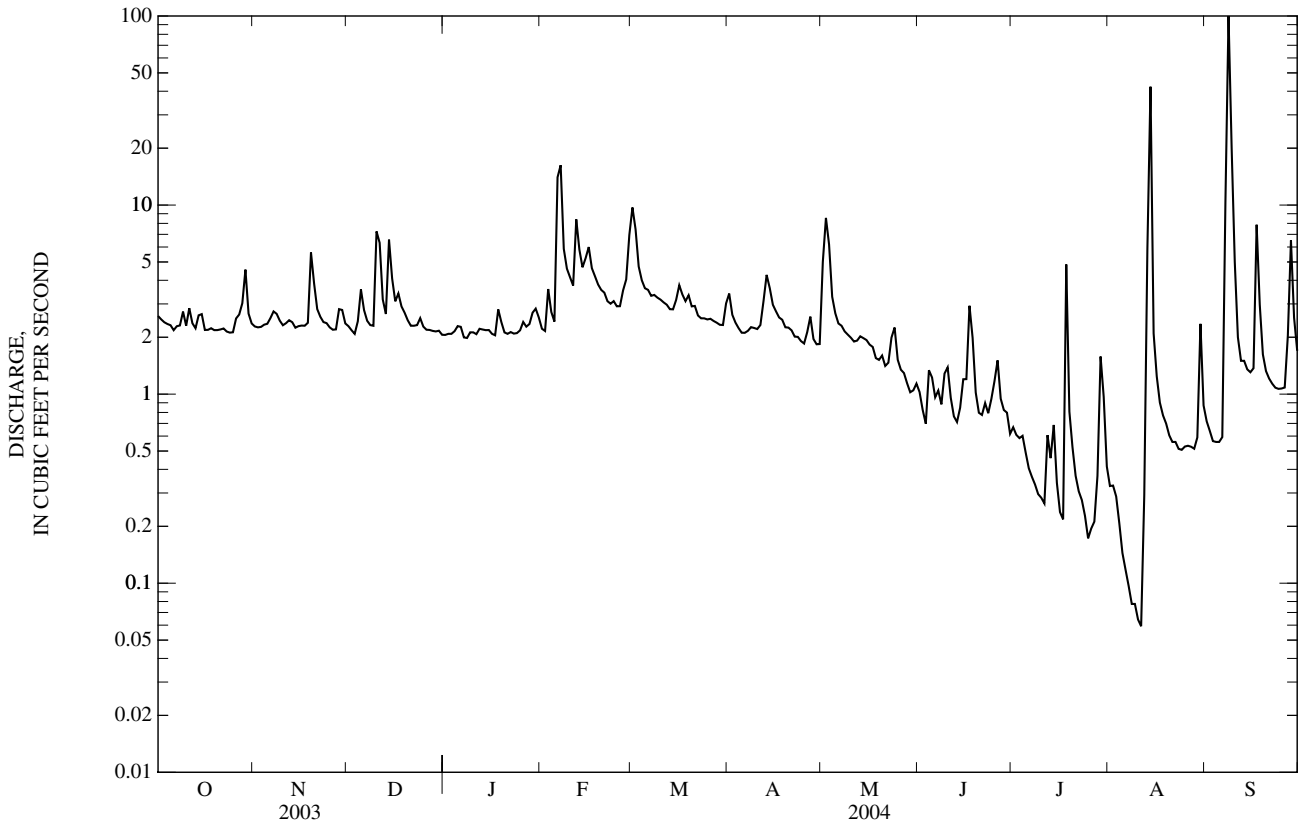
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, @ BY WATER YEAR (WY)

MEAN	2.87	2.56	2.71	5.12	5.83	7.12	5.10	2.92	2.05	1.56	2.22	1.83
MAX	11.9	8.69	5.52	17.5	15.9	22.5	10.5	7.86	9.84	8.80	13.0	7.81
(WY)	(1991)	(1986)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(1997)	(2003)	(1996)
MIN	0.12	0.20	0.34	1.23	1.56	2.24	1.41	0.70	0.08	0.07	0.10	0.14
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(2001)

02123567 DUTCHMANS CREEK NEAR UWHARRIE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1982 - 2004 [@]	
ANNUAL TOTAL	2,391.8		999.45		3.48	
ANNUAL MEAN	6.55		2.73		0.82	
HIGHEST ANNUAL MEAN					7.16	1998
LOWEST ANNUAL MEAN					0.82	2002
HIGHEST DAILY MEAN	126	Apr 10	100	Sep 8	206	Apr 21, 1992
LOWEST DAILY MEAN	1.1	Jan 24	0.06	Aug 10	0.00	Jun 22, 2002
ANNUAL SEVEN-DAY MINIMUM	1.3	Jan 23	0.09	Aug 5	0.00	Aug 9, 2002
MAXIMUM PEAK FLOW			526	Sep 8	1,560	Apr 21, 1992
MAXIMUM PEAK STAGE			8.98*	Sep 8	11.96*	Apr 21, 1992
INSTANTANEOUS LOW FLOW			0.06*	Aug 10	0.00*	Jun 19, 2002
ANNUAL RUNOFF (CFSM)	1.90		0.794		1.01	
ANNUAL RUNOFF (INCHES)	25.86		10.81		13.75	
10 PERCENT EXCEEDS	11		4.0		5.9	
50 PERCENT EXCEEDS	3.5		2.2		1.7	
90 PERCENT EXCEEDS	1.9		0.53		0.31	

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



0212393300 WEST BRANCH ROCKY RIVER BELOW MOUTH OF SOUTH PRONG RIVER NEAR CORNELIUS, NC

LOCATION.--Lat 35°28'04", long 80°47'25", Mecklenburg County, Hydrologic Unit 03040105, on downstream side of box culvert on River Ford Road, 30 ft downstream of mouth of South Prong River, and 4.0 mi southwest of Cornelius.

DRAINAGE AREA.--20.8 mi².

PERIOD OF RECORD.--July 2004 to September 2004.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.42 ft above NAVD 88. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred on Aug. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	13	3.6	2.3
2	---	---	---	---	---	---	---	---	---	8.4	4.1	2.0
3	---	---	---	---	---	---	---	---	---	7.5	3.7	2.0
4	---	---	---	---	---	---	---	---	---	16	2.9	1.9
5	---	---	---	---	---	---	---	---	---	17	2.5	1.7
6	---	---	---	---	---	---	---	---	---	9.0	2.1	7.7
7	---	---	---	---	---	---	---	---	---	e5.9	1.8	71
8	---	---	---	---	---	---	---	---	---	e4.1	1.7	283
9	---	---	---	---	---	---	---	---	---	4.1	1.6	14
10	---	---	---	---	---	---	---	---	---	3.8	1.5	6.8
11	---	---	---	---	---	---	---	---	---	5.1	1.4	5.1
12	---	---	---	---	---	---	---	---	---	4.3	16	4.2
13	---	---	---	---	---	---	---	---	---	3.6	5.9	3.5
14	---	---	---	---	---	---	---	---	---	3.2	7.2	3.3
15	---	---	---	---	---	---	---	---	---	2.9	3.8	3.1
16	---	---	---	---	---	---	---	---	---	2.6	3.0	2.9
17	---	---	---	---	---	---	---	---	---	3.1	2.7	28
18	---	---	---	---	---	---	---	---	---	4.9	3.2	7.4
19	---	---	---	---	---	---	---	---	---	6.9	2.4	4.5
20	---	---	---	---	---	---	---	---	---	3.1	2.2	4.0
21	---	---	---	---	---	---	---	---	---	2.8	2.1	3.4
22	---	---	---	---	---	---	---	---	---	2.7	2.2	3.2
23	---	---	---	---	---	---	---	---	---	2.7	2.1	3.1
24	---	---	---	---	---	---	---	---	---	2.4	1.9	3.0
25	---	---	---	---	---	---	---	---	---	2.3	1.8	2.8
26	---	---	---	---	---	---	---	---	---	2.7	1.7	2.6
27	---	---	---	---	---	---	---	---	---	33	1.6	30
28	---	---	---	---	---	---	---	---	---	4.7	1.6	1,040
29	---	---	---	---	---	---	---	---	---	15	1.9	38
30	---	---	---	---	---	---	---	---	---	9.0	2.5	18
31	---	---	---	---	---	---	---	---	---	4.3	4.1	---
TOTAL	---	---	---	---	---	---	---	---	---	210.1	96.8	1,602.5
MEAN	---	---	---	---	---	---	---	---	---	6.78	3.12	53.4
MAX	---	---	---	---	---	---	---	---	---	33	16	1,040
MIN	---	---	---	---	---	---	---	---	---	2.3	1.4	1.7
CFSM	---	---	---	---	---	---	---	---	---	0.33	0.15	2.57
IN.	---	---	---	---	---	---	---	---	---	0.38	0.17	2.87

SUMMARY STATISTICS

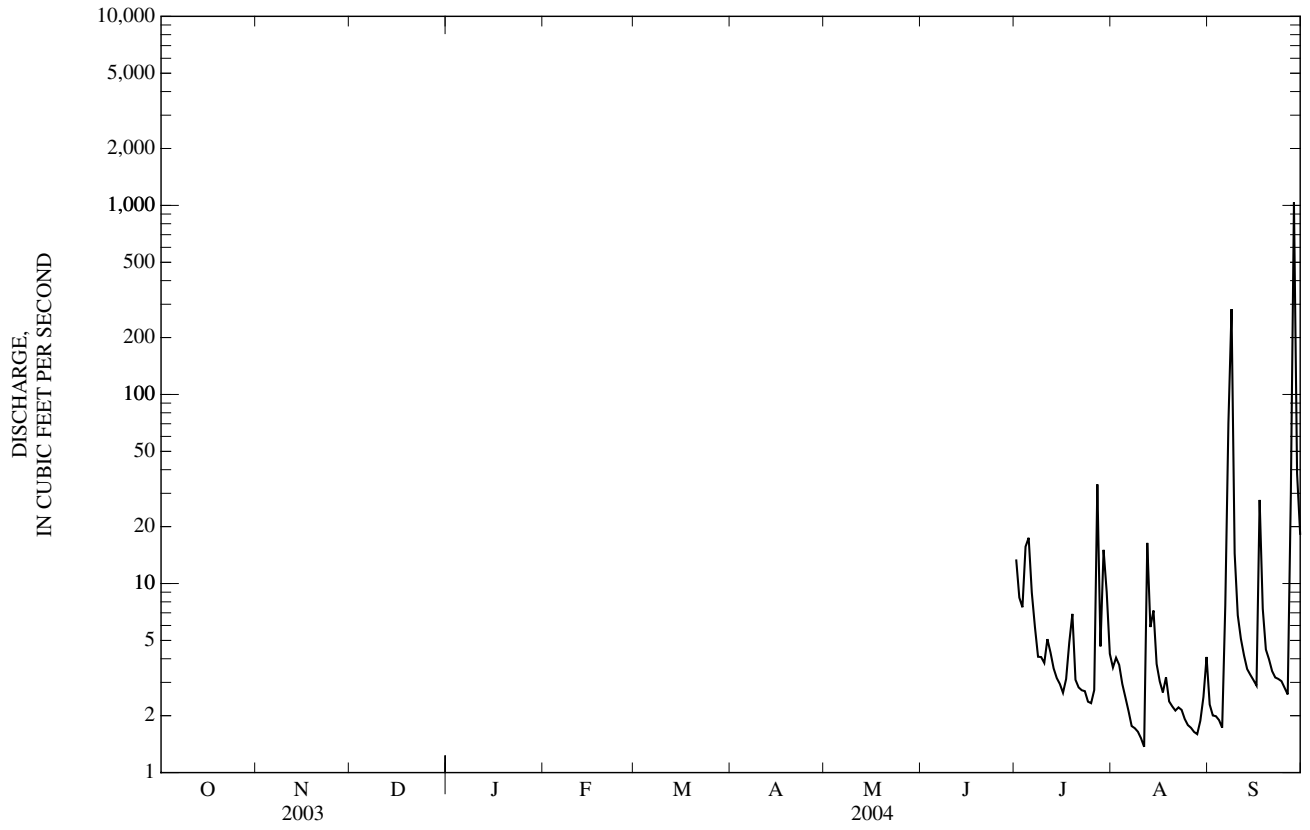
FOR 2004 WATER YEAR

HIGHEST DAILY MEAN	1,040	Sep 28
LOWEST DAILY MEAN	1.4	Aug 11
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 5
MAXIMUM PEAK FLOW	2,350	Sep 28
MAXIMUM PEAK STAGE	12.59	Sep 28
INSTANTANEOUS LOW FLOW	1.0*	Aug 11

* See REMARKS.

e Estimated.

0212393300 WEST BRANCH ROCKY RIVER BELOW MOUTH OF SOUTH PRONG RIVER NEAR CORNELIUS, NC—



02124080 CLARKE CREEK NEAR HARRISBURG, NC

LOCATION.--Lat 35°24'51", long 80°45'07", Cabarrus County, Hydrologic Unit 03040105, on left wingwall on upstream side of bridge on Secondary Road 1449, 3.0 mi upstream from mouth, and 8.5 mi northwest of Harrisburg.

DRAINAGE AREA.--21.9 mi².

PERIOD OF RECORD.--July 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 610 ft above NGVD of 1929 (from topographic map). Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year and period of record also occurred May 27, Aug. 8, 2004 and is affected by withdrawal from golf course upstream.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	7.7	4.4
2	---	---	---	---	---	---	---	---	---	---	6.6	3.9
3	---	---	---	---	---	---	---	---	---	---	6.2	3.2
4	---	---	---	---	---	---	---	---	---	---	13	4.3
5	---	---	---	---	---	---	---	---	---	---	18	5.1
6	---	---	---	---	---	---	---	---	---	---	7.4	3.6
7	---	---	---	---	---	---	---	---	---	---	22	3.5
8	---	---	---	---	---	---	---	---	---	---	21	3.8
9	---	---	---	---	---	---	---	---	---	---	13	4.5
10	---	---	---	---	---	---	---	---	---	---	14	3.4
11	---	---	---	---	---	---	---	---	---	---	18	3.1
12	---	---	---	---	---	---	---	---	---	---	7.7	2.6
13	---	---	---	---	---	---	---	---	---	---	7.1	2.3
14	---	---	---	---	---	---	---	---	---	---	6.2	2.5
15	---	---	---	---	---	---	---	---	---	---	6.3	2.3
16	---	---	---	---	---	---	---	---	---	---	5.7	1.2
17	---	---	---	---	---	---	---	---	---	---	13	1.6
18	---	---	---	---	---	---	---	---	---	---	7.2	2.4
19	---	---	---	---	---	---	---	---	---	---	5.0	2.4
20	---	---	---	---	---	---	---	---	---	---	4.7	1.5
21	---	---	---	---	---	---	---	---	---	e8.8	4.5	1.1
22	---	---	---	---	---	---	---	---	---	8.3	4.2	5.2
23	---	---	---	---	---	---	---	---	---	9.8	4.3	88
24	---	---	---	---	---	---	---	---	---	8.3	4.7	6.5
25	---	---	---	---	---	---	---	---	---	6.6	3.4	3.9
26	---	---	---	---	---	---	---	---	---	8.4	2.6	2.3
27	---	---	---	---	---	---	---	---	---	8.7	3.2	2.1
28	---	---	---	---	---	---	---	---	---	7.2	2.5	2.9
29	---	---	---	---	---	---	---	---	---	6.7	2.6	1.8
30	---	---	---	---	---	---	---	---	---	7.8	2.6	1.7
31	---	---	---	---	---	---	---	---	---	6.6	3.0	---
TOTAL	---	---	---	---	---	---	---	---	---	87.2	247.4	177.1
MEAN	---	---	---	---	---	---	---	---	---	7.93	7.98	5.90
MAX	---	---	---	---	---	---	---	---	---	9.8	22	88
MIN	---	---	---	---	---	---	---	---	---	6.6	2.5	1.1
CFSM	---	---	---	---	---	---	---	---	---	0.36	0.36	0.27
IN.	---	---	---	---	---	---	---	---	---	0.15	0.42	0.30

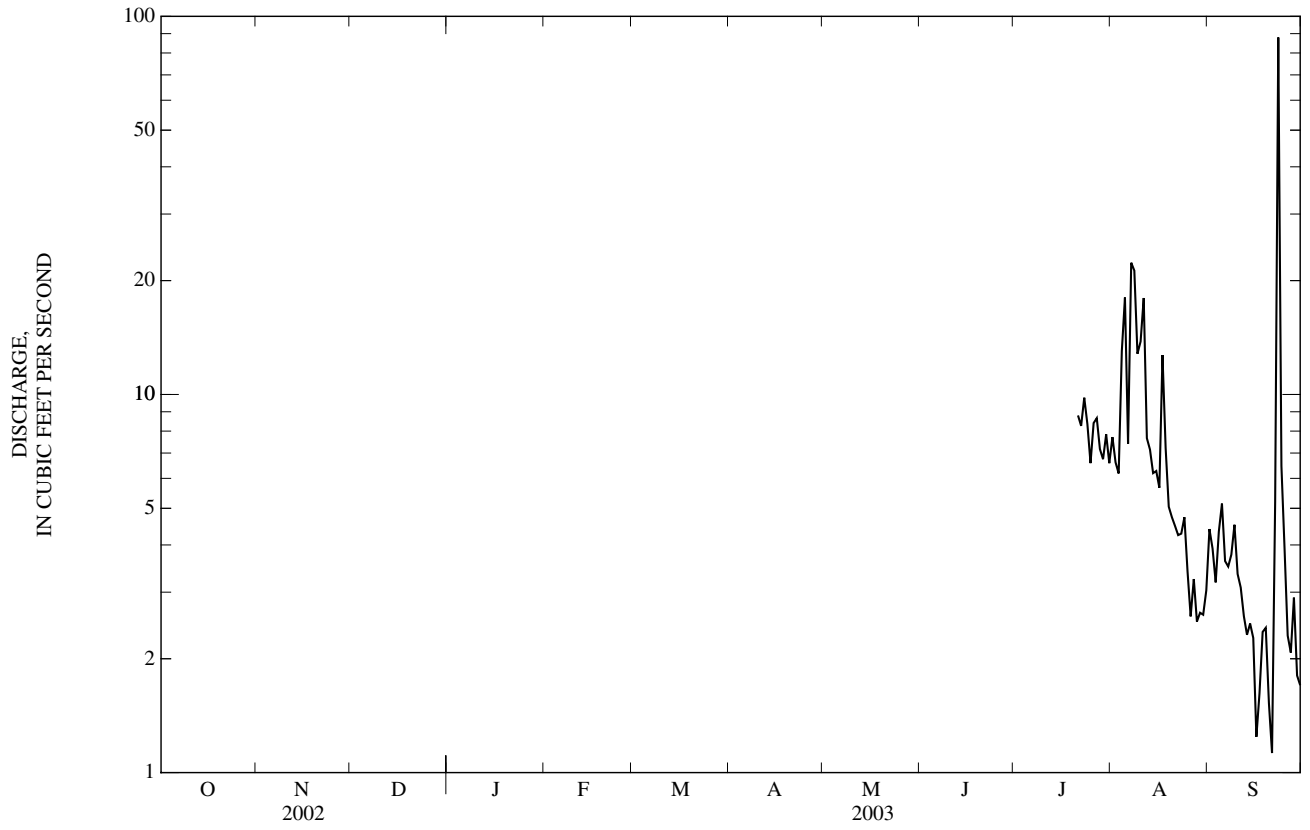
SUMMARY STATISTICS

FOR 2003 WATER YEAR

MAXIMUM PEAK FLOW	330	Sep 23
MAXIMUM PEAK STAGE	6.50	Sep 23
INSTANTANEOUS LOW FLOW	0.32	Sep 16

e Estimated.

02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued



DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.8	2.8	3.8	4.6	41	23	9.7	1.7	e3.5	2.7	3.5
2	0.94	2.9	2.6	3.7	4.3	33	10	11	1.4	e3.4	5.9	1.6
3	1.0	2.7	2.7	3.7	19	21	8.0	9.4	e1.2	e3.1	4.4	1.6
4	1.2	3.2	3.1	e4.0	9.6	16	7.3	6.3	e3.9	e4.0	2.7	1.2
5	1.5	4.2	4.6	8.4	7.6	14	6.8	5.8	2.6	e3.8	2.2	1.2
6	1.7	4.4	3.6	8.7	71	13	6.2	6.4	1.8	e3.5	1.5	2.7
7	1.7	3.2	2.9	4.9	77	11	6.2	4.8	2.2	e3.0	0.66	66
8	2.5	2.8	2.8	4.6	19	9.6	5.4	4.8	1.8	e2.7	0.13	368
9	3.2	2.6	2.8	5.3	14	9.1	4.9	5.1	1.4	3.6	0.28	52
10	1.9	2.5	15	4.5	11	8.8	4.7	8.0	1.7	1.9	0.03	16
11	5.0	2.3	12	4.0	9.6	8.4	4.9	5.9	1.4	1.6	0.16	12
12	e3.6	2.6	4.0	4.1	35	8.4	13	5.5	1.4	15	10	10
13	2.0	3.1	4.4	e4.1	24	8.4	53	3.9	1.5	3.1	5.6	9.2
14	2.5	3.5	54	e4.2	16	7.1	27	3.6	4.7	1.8	12	8.4
15	4.0	2.5	11	e4.0	19	7.2	14	2.9	9.5	0.77	5.8	6.7
16	2.3	2.6	6.0	3.7	23	9.1	11	2.9	7.1	1.2	3.5	6.5
17	2.2	2.7	8.3	4.3	15	8.1	9.0	3.1	3.3	4.8	4.5	39
18	2.2	2.5	6.1	6.2	12	7.7	8.4	3.1	4.5	19	3.5	17
19	1.9	5.5	6.9	5.4	11	7.8	8.2	3.2	4.6	6.8	1.8	6.7
20	1.8	3.9	6.4	4.7	9.4	7.2	6.8	3.4	3.7	3.3	1.3	5.0
21	1.7	2.9	6.0	4.6	8.6	7.3	5.3	2.2	6.6	2.4	1.4	4.4
22	1.8	e3.7	5.8	5.5	8.1	7.0	4.9	2.3	4.0	2.0	1.8	4.1
23	2.3	e3.6	5.6	4.8	7.6	6.7	5.2	1.7	4.7	2.0	1.5	3.0
24	1.7	3.7	5.5	4.6	8.2	6.8	4.7	1.2	3.4	1.3	e1.5	1.7
25	1.3	3.5	5.6	4.7	7.4	6.9	4.0	0.97	17	e1.2	0.97	3.7
26	1.5	4.1	5.5	5.1	8.0	6.1	4.5	0.69	27	e1.2	0.89	3.7
27	11	2.5	5.4	5.3	13	6.1	4.4	1.1	6.9	e50	1.0	19
28	3.7	3.1	5.2	5.7	18	6.4	3.8	1.0	4.2	5.6	0.92	1,070
29	9.2	3.2	5.9	6.3	34	6.1	3.6	0.96	e3.6	8.8	0.75	105
30	3.4	2.9	6.4	6.3	---	7.1	3.5	0.83	e3.5	6.9	2.2	29
31	3.2	---	4.1	5.3	---	12	---	2.1	---	3.8	5.9	---
TOTAL	85.64	95.7	223.0	154.5	524.0	334.4	281.7	123.85	142.3	175.07	87.49	1,877.9
MEAN	2.76	3.19	7.19	4.98	18.1	10.8	9.39	4.00	4.74	5.65	2.82	62.6
MAX	11	5.5	54	8.7	77	41	53	11	27	50	12	1,070
MIN	0.94	2.3	2.6	3.7	4.3	6.1	3.5	0.69	1.2	0.77	0.03	1.2
CFSM	0.13	0.15	0.33	0.23	0.83	0.49	0.43	0.18	0.22	0.26	0.13	2.86
IN.	0.15	0.16	0.38	0.26	0.89	0.57	0.48	0.21	0.24	0.30	0.15	3.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	2.76	3.19	7.19	4.98	18.1	10.8	9.39	4.00	4.74	5.65	5.40	34.2
MAX	2.76	3.19	7.19	4.98	18.1	10.8	9.39	4.00	4.74	5.65	7.98	62.6
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)
MIN	2.76	3.19	7.19	4.98	18.1	10.8	9.39	4.00	4.74	5.65	2.82	5.90
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

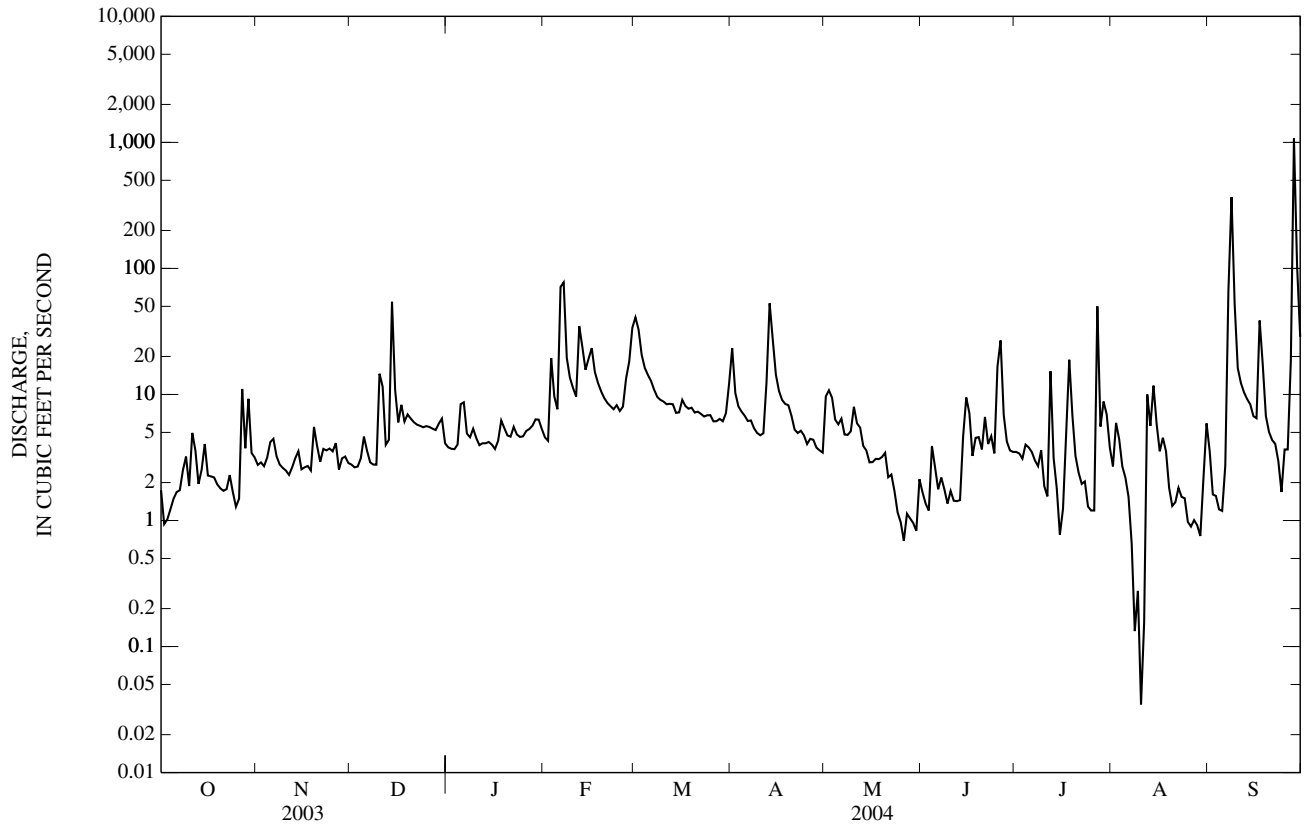
WATER YEARS 2003 - 2004

ANNUAL TOTAL							4,105.55					
ANNUAL MEAN							11.2				11.2	
HIGHEST ANNUAL MEAN											11.2	2004
LOWEST ANNUAL MEAN											11.2	2004
HIGHEST DAILY MEAN				88	Sep 23		1,070	Sep 28		1,070	Sep 28, 2004	
LOWEST DAILY MEAN	0.94				Oct 2		0.03	Aug 10		0.03	Aug 10, 2004	
ANNUAL SEVEN-DAY MINIMUM				1.4	Sep 30		0.71	Aug 5		0.71	Aug 5, 2004	
MAXIMUM PEAK FLOW							2,290	Sep 28		2,290	Sep 28, 2004	
MAXIMUM PEAK STAGE							11.51	Sep 28		11.51	Sep 28, 2004	
INSTANTANEOUS LOW FLOW							0.01*	May 26		0.01*	May 26, 2004	
ANNUAL RUNOFF (CFSM)							0.512			0.512		
ANNUAL RUNOFF (INCHES)							6.97			6.96		
10 PERCENT EXCEEDS							14			14		
50 PERCENT EXCEEDS							4.4			4.4		
90 PERCENT EXCEEDS							1.5			1.5		

* See REMARKS.

e Estimated.

02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued



0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC

LOCATION.--Lat 35°19'58", long 80°42'57", Mecklenburg County, Hydrologic Unit 03040105, on left bank on upstream side of bridge at Pavillion Blvd, 0.1 mi downstream of Stony Creek, and 3.8 mi northwest of Harrisburg.

DRAINAGE AREA.--34.6 mi².

PERIOD OF RECORD.--December 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 568.40 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from contracted opening measurement of peak flow; maximum gage height for period of record from floodmarks. No flow occurred for part of each day Aug. 8, 9, 10, 12, 13, 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	7.5	7.1	7.1	9.4	99	66	34	6.4	15	51	8.0
2	5.3	7.3	6.5	7.5	8.9	66	18	130	3.8	13	22	6.9
3	5.2	7.2	6.7	7.2	75	35	e14	67	3.1	11	e9.2	5.9
4	5.5	7.9	9.8	7.2	20	26	e12	23	9.7	20	7.2	5.6
5	5.5	14	18	63	14	21	e10	13	4.4	16	13	6.1
6	5.7	8.8	9.5	29	380	20	e12	11	3.3	12	9.0	6.8
7	6.2	8.4	7.7	13	134	e17	e12	9.3	4.0	8.6	5.5	541
8	19	8.1	7.0	10	36	e16	e9.4	8.4	19	7.4	5.3	1,270
9	22	7.3	6.8	13	25	e15	e8.8	e7.9	14	6.8	4.9	62
10	7.9	10	105	11	21	e15	e8.5	e10	11	6.3	4.3	31
11	75	8.2	39	9.3	18	e15	e13	7.3	5.3	26	7.9	22
12	12	6.8	13	9.1	104	15	e17	6.9	3.1	45	276	19
13	7.8	7.6	20	8.5	40	14	e275	7.2	6.0	9.7	380	17
14	9.0	9.0	220	8.8	30	14	42	6.7	602	7.2	284	16
15	11	9.9	31	8.3	53	17	22	6.1	240	5.7	39	15
16	6.7	10	17	7.9	49	23	17	5.7	42	5.0	21	15
17	5.9	10	37	8.2	e26	16	16	5.4	20	29	14	217
18	6.2	11	18	19	e23	17	13	6.8	15	209	14	40
19	6.2	43	12	12	e19	20	12	7.5	15	18	11	20
20	5.7	15	10	9.1	e17	e13	12	5.1	13	9.7	9.8	16
21	6.1	8.1	9.0	e8.1	e15	e11	11	4.9	357	7.6	10	14
22	6.6	7.3	8.9	e8.1	e13	e10	10	4.3	57	6.2	12	13
23	6.4	6.7	9.0	e8.9	e13	11	9.7	5.1	54	6.2	8.4	13
24	6.7	6.9	9.3	e7.8	14	e9.9	8.8	7.4	71	5.3	7.2	12
25	6.6	7.7	8.2	e8.0	13	9.8	8.3	4.4	490	4.7	6.7	13
26	8.8	6.9	7.8	e8.0	17	10	9.7	4.2	256	4.8	6.3	11
27	9.2	6.8	7.7	e8.0	49	10	13	4.9	45	282	6.5	177
28	25	9.4	7.5	e8.0	79	e9.8	8.5	4.1	27	28	5.8	2,170
29	58	9.2	7.5	e8.5	94	9.5	7.6	4.2	18	42	20	94
30	11	6.8	8.1	14	---	15	7.5	4.3	16	18	31	e46
31	8.0	---	7.7	11	---	54	---	18	---	9.1	19	---
TOTAL	385.3	292.8	691.8	366.6	1,409.3	654.0	703.8	444.1	2,431.1	894.3	1,321.0	4,903.3
MEAN	12.4	9.76	22.3	11.8	48.6	21.1	23.5	14.3	81.0	28.8	42.6	163
MAX	75	43	220	63	380	99	275	130	602	282	380	2,170
MIN	5.1	6.7	6.5	7.1	8.9	9.5	7.5	4.1	3.1	4.7	4.3	5.6
CFSM	0.36	0.28	0.64	0.34	1.40	0.61	0.68	0.41	2.34	0.83	1.23	4.72
IN.	0.41	0.31	0.74	0.39	1.52	0.70	0.76	0.48	2.61	0.96	1.42	5.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

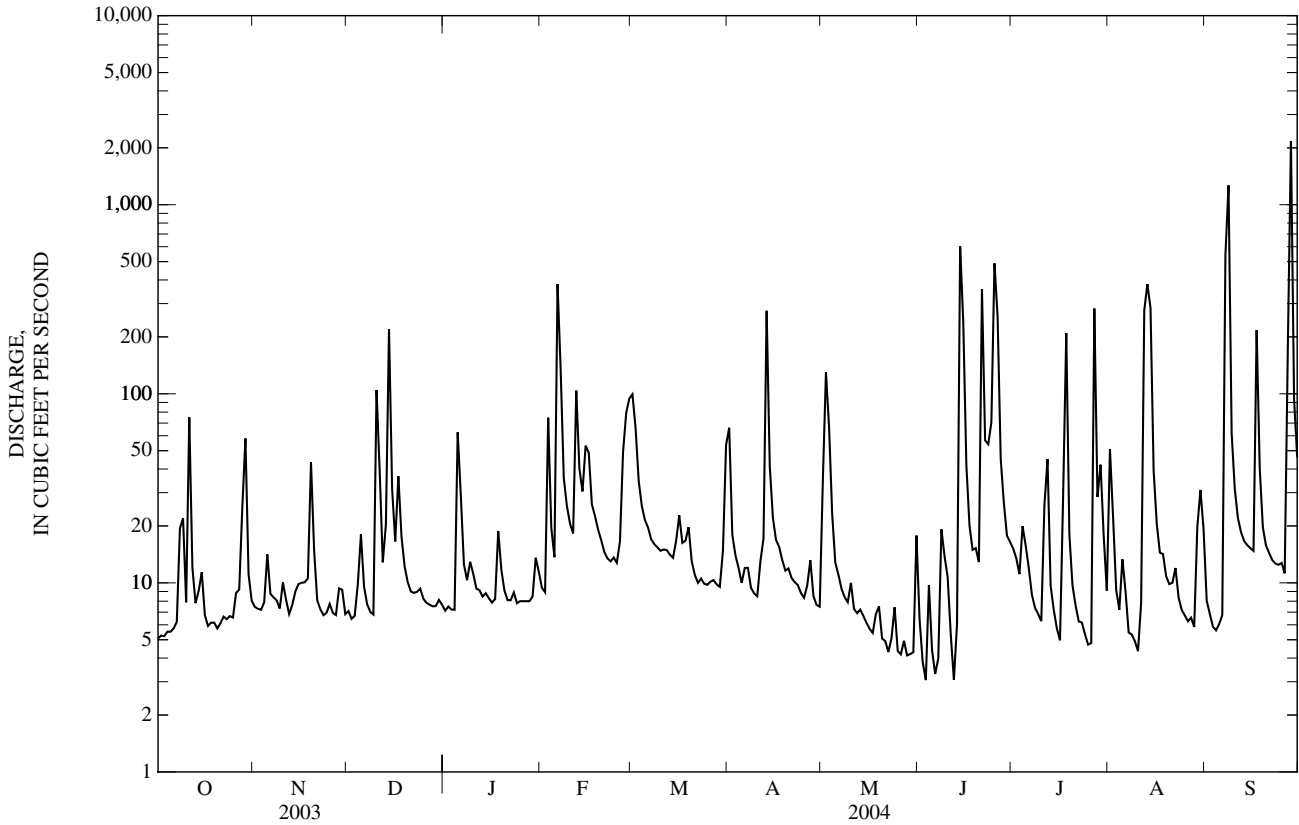
MEAN	25.6	28.9	31.4	51.4	54.0	60.8	54.2	31.5	33.6	30.2	32.3	36.7
MAX	53.7	90.4	93.3	147	95.0	165	195	161	132	92.9	105	163
(WY)	(1996)	(1996)	(2003)	(1998)	(1997)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	2.75	3.80	9.44	11.8	15.0	15.5	11.2	9.55	5.82	9.09	1.74	9.59
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(1995)	(2001)	(2002)	(2001)	(2001)	(2002)

0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	27,355.7		14,497.4		39.2	
ANNUAL MEAN	74.9		39.6		86.5	
HIGHEST ANNUAL MEAN					16.0	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	2,020	Mar 20	2,170	Sep 28	2,350	Aug 27, 1995
LOWEST DAILY MEAN	5.0	Sep 17	3.1	Jun 3	0.01	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	5.4	Sep 30	4.8	May 24	0.07	Aug 8, 2002
MAXIMUM PEAK FLOW			5,440	Sep 28	6,260*	Aug 27, 1995
MAXIMUM PEAK STAGE			16.76	Sep 28	17.34*	Aug 27, 1995
INSTANTANEOUS LOW FLOW			2.1	Jun 12	0.00*	Aug 8, 2002
ANNUAL RUNOFF (CFSM)	2.17		1.14		1.13	
ANNUAL RUNOFF (INCHES)	29.41		15.59		15.39	
10 PERCENT EXCEEDS	178		55		68	
50 PERCENT EXCEEDS	21		10		12	
90 PERCENT EXCEEDS	6.7		5.8		3.2	

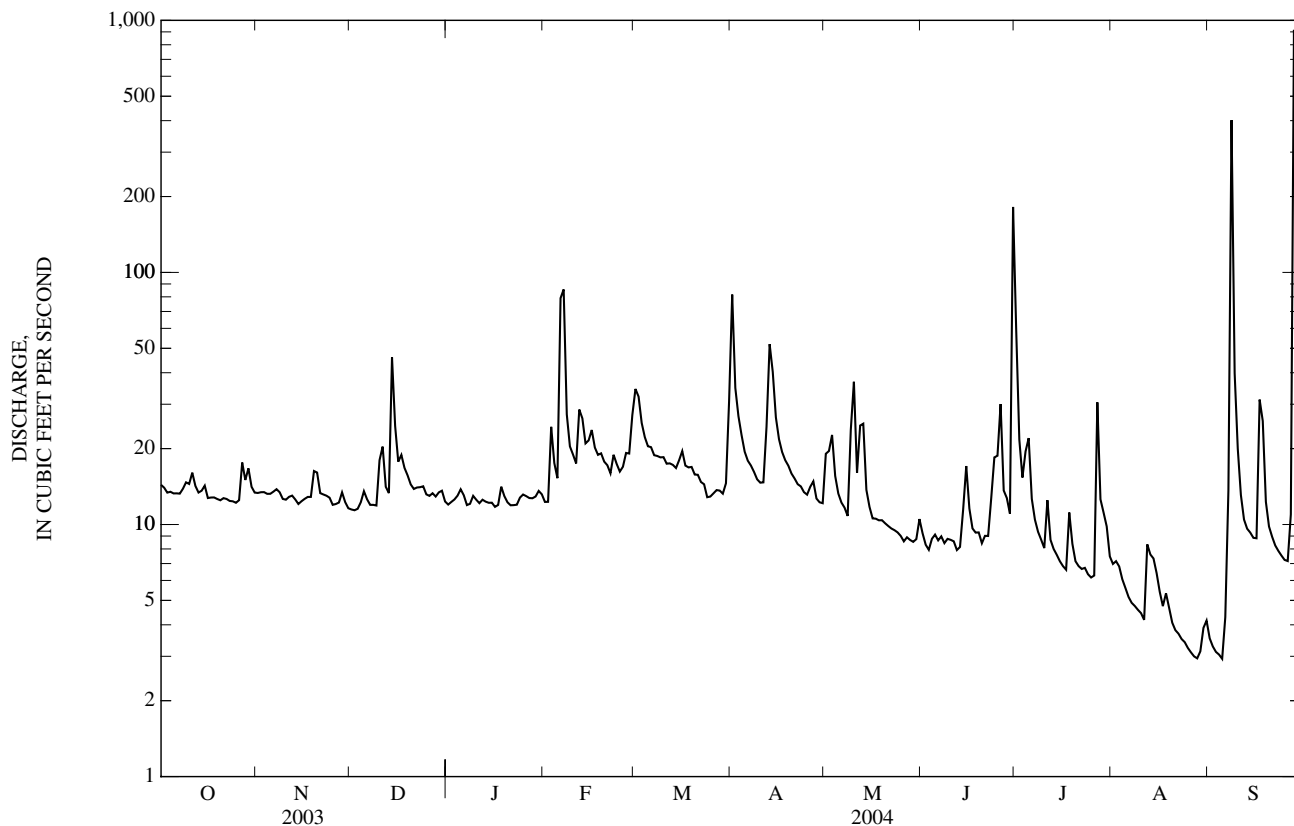
* See REMARKS.

e Estimated.



0212419274 CODDLE CREEK AT SECONDARY ROAD 1612 NEAR DAVIDSON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	15,764.2		6,770.9		31.1	
ANNUAL MEAN	43.2		18.5		18.5	
HIGHEST ANNUAL MEAN					43.7	2003
LOWEST ANNUAL MEAN					18.5	2004
HIGHEST DAILY MEAN	1,220	Apr 10	916	Sep 28	1,220	Apr 10, 2003
LOWEST DAILY MEAN	8.1	Jan 28	2.9	Aug 28	0.42	Oct 5, 2002
ANNUAL SEVEN-DAY MINIMUM	8.6	Jan 22	3.2	Aug 23	0.53	Oct 2, 2002
MAXIMUM PEAK FLOW			2,140	Sep 28	2,220	Apr 10, 2003
MAXIMUM PEAK STAGE			12.98	Sep 28	12.98	Sep 28, 2004
INSTANTANEOUS LOW FLOW			2.6	Aug 27	0.30	Oct 5, 2002
ANNUAL RUNOFF (CFSM)	1.90		0.815		1.37	
ANNUAL RUNOFF (INCHES)	25.83		11.10		18.60	
10 PERCENT EXCEEDS	76		23		49	
50 PERCENT EXCEEDS	18		13		14	
90 PERCENT EXCEEDS	11		6.7		5.6	



0212427947 REEDY CREEK AT SECONDARY ROAD 2803 NEAR CHARLOTTE, NC

LOCATION.--Lat 35°15'23", long 80°42'02", Mecklenburg County, Hydrologic Unit 03040105, on right downstream wingwall on Secondary Road 2803, 3.8 mi southeast of the University of North Carolina at Charlotte.

DRAINAGE AREA.--2.50 mi².

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 637.45 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. No flow also occurred July 31, Aug. 1, 7, 10, 11, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.63	0.86	0.79	1.0	1.0	7.6	3.6	1.5	0.59	0.51	0.54	0.73
2	0.56	0.83	0.74	1.00	1.0	6.9	1.9	3.5	0.57	0.53	1.8	0.59
3	0.54	0.79	0.72	0.96	2.6	4.1	1.3	2.4	0.54	0.45	0.94	0.54
4	0.56	0.79	0.93	0.97	1.4	3.2	1.1	1.2	0.57	0.40	0.25	0.49
5	0.53	0.74	1.2	1.4	e1.2	2.7	0.94	0.95	0.55	0.41	1.1	0.50
6	0.55	0.74	0.94	1.2	e14	2.4	0.86	0.83	0.52	0.39	0.55	e63
7	0.64	0.71	0.84	0.98	5.8	1.9	0.83	0.75	0.53	0.30	0.34	30
8	0.96	0.78	0.78	0.90	2.6	1.8	0.81	0.71	0.58	0.25	0.30	e60
9	0.92	0.72	0.72	1.1	1.9	1.7	0.76	0.66	0.67	0.22	0.24	4.0
10	0.83	0.73	3.8	0.95	1.6	1.7	0.75	0.62	0.45	0.21	0.19	1.6
11	3.2	0.73	2.3	0.92	1.4	1.7	0.72	0.61	0.35	0.76	0.25	1.0
12	1.1	0.77	1.4	0.98	3.6	1.6	0.96	0.68	0.31	0.77	9.3	0.76
13	0.85	0.72	1.9	0.97	2.4	1.6	2.4	0.72	0.84	0.28	13	0.63
14	0.84	0.67	7.4	1.0	1.9	1.7	1.6	0.74	5.4	0.26	13	0.56
15	0.74	0.66	2.5	1.1	2.4	1.9	1.1	0.73	2.2	0.23	2.9	0.50
16	0.69	0.69	1.9	1.0	2.0	2.0	1.0	0.68	1.2	0.23	2.0	0.51
17	0.70	0.68	2.6	0.93	1.5	1.4	0.91	0.66	0.85	6.6	1.3	4.7
18	0.69	0.69	1.8	1.3	1.5	1.2	0.75	0.67	0.76	12	0.97	1.3
19	0.75	1.5	1.6	1.1	1.3	1.6	0.68	0.68	0.69	1.2	0.79	0.68
20	0.71	0.97	1.5	0.92	1.2	1.3	0.65	0.65	0.52	0.84	0.68	0.54
21	0.71	0.77	1.7	0.97	1.2	1.5	0.64	0.62	3.7	0.61	0.59	0.49
22	0.69	0.77	1.3	1.2	1.0	1.2	0.60	0.61	1.7	0.48	0.57	0.44
23	0.69	0.75	1.3	1.00	1.4	1.2	0.59	0.57	3.1	0.44	0.51	0.40
24	0.65	0.82	1.4	0.98	1.2	1.1	0.57	0.54	2.1	0.41	0.48	0.37
25	0.66	0.74	1.1	1.2	0.98	1.2	0.53	0.42	3.1	0.39	0.47	0.37
26	0.75	0.72	1.0	1.2	1.2	1.2	0.61	0.40	3.2	0.43	0.45	0.35
27	0.77	0.74	1.0	1.1	2.4	1.2	0.65	0.56	1.1	7.0	0.41	e15
28	1.3	0.91	1.1	1.2	2.9	1.2	0.55	0.59	0.74	2.2	0.44	e75
29	2.5	0.89	1.1	1.2	5.1	1.1	0.50	0.64	0.45	3.2	1.1	4.9
30	1.2	0.84	1.1	1.2	---	1.1	0.48	0.66	0.35	1.4	1.3	2.5
31	0.90	---	1.0	1.0	---	2.8	---	1.1	---	0.74	1.8	---
TOTAL	27.81	23.72	49.46	32.93	69.68	64.8	29.34	26.65	38.23	44.14	58.56	210.08
MEAN	0.90	0.79	1.60	1.06	2.40	2.09	0.98	0.86	1.27	1.42	1.89	7.00
MAX	3.2	1.5	7.4	1.4	14	7.6	3.6	3.5	5.4	12	13	75
MIN	0.53	0.66	0.72	0.90	0.98	1.1	0.48	0.40	0.31	0.21	0.19	0.35
IN.	0.41	0.35	0.74	0.49	1.04	0.96	0.44	0.40	0.57	0.66	0.87	3.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	0.62	1.11	2.13	1.29	2.18	4.32	4.68	4.32	3.75	3.46	1.62	2.66
MAX	0.90	1.79	4.28	1.82	3.14	9.34	12.6	11.9	9.88	8.91	2.89	7.00
(WY)	(2004)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.23	0.77	0.52	1.01	0.97	1.52	0.48	0.19	0.08	0.04	0.07	0.04
(WY)	(2002)	(2002)	(2002)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

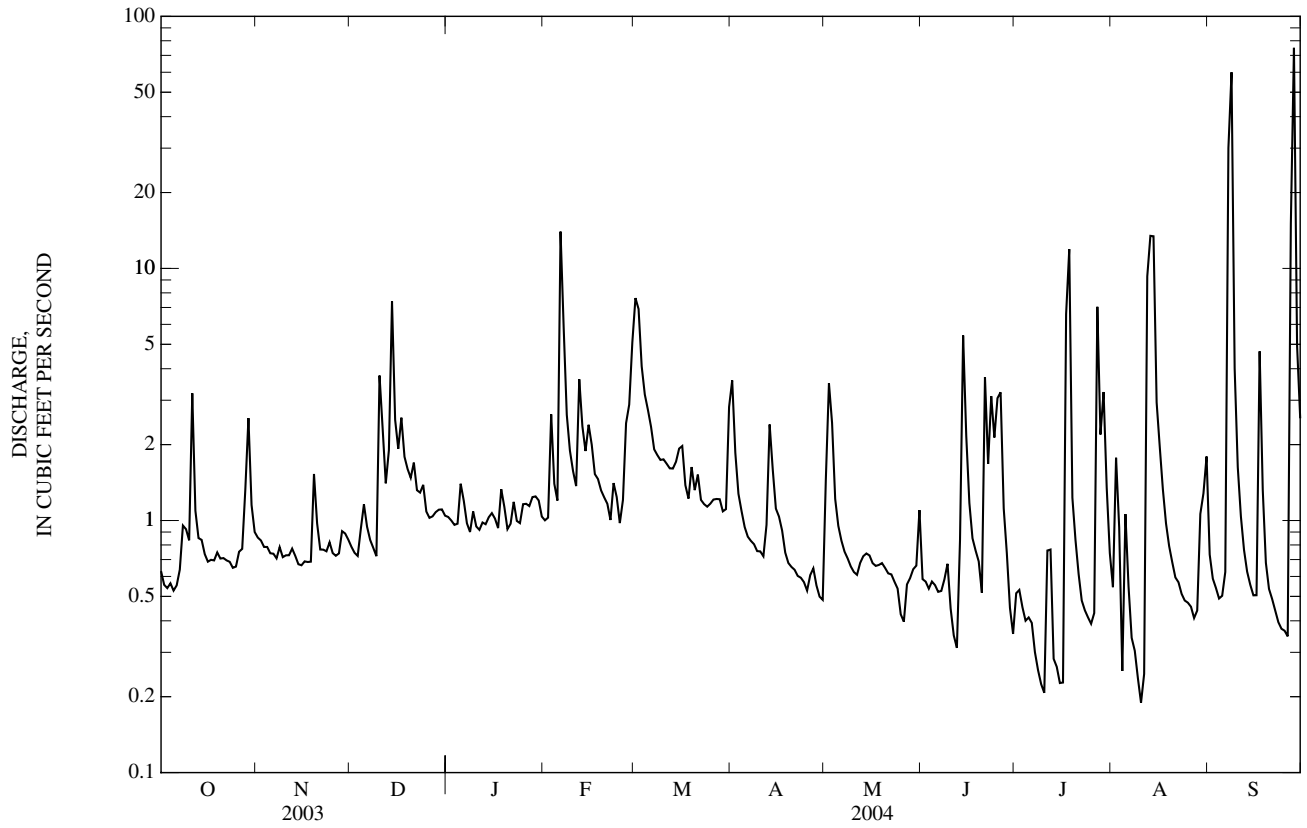
WATER YEARS 2002 - 2004

ANNUAL TOTAL	1,947.26		675.40			
ANNUAL MEAN	5.33		1.85			
HIGHEST ANNUAL MEAN					2.68	
LOWEST ANNUAL MEAN					5.63	2003
HIGHEST DAILY MEAN	150	Jul 17	75	Sep 28	0.56	2002
LOWEST DAILY MEAN	0.48	Jan 19	0.19	Aug 10	150	Jul 17, 2003
ANNUAL SEVEN-DAY MINIMUM	0.52	Jan 14	0.31	Jul 4	0.00	Jul 30, 2002
MAXIMUM PEAK FLOW			NOT DETERMINED		0.01	Jul 27, 2002
MAXIMUM PEAK STAGE			NOT DETERMINED		8.13	Jul 17, 2003
INSTANTANEOUS LOW FLOW					0.09	Aug 11
ANNUAL RUNOFF (INCHES)	28.98		10.05		0.00*	Jul 30, 2002
10 PERCENT EXCEEDS	8.7		2.6		14.55	
50 PERCENT EXCEEDS	1.8		0.90		4.4	
90 PERCENT EXCEEDS	0.66		0.45		0.83	
					0.08	

* See REMARKS.

e Estimated.

0212427947 REEDY CREEK AT SECONDARY ROAD 2803 NEAR CHARLOTTE, NC—Continued



0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC

LOCATION.--Lat 35°19'18", long 80°32'27", Cabarrus County, Hydrologic Unit 03040105, on left bank at end of maintenance road located within Rocky River Wastewater Treatment Facility, 0.40 mi above confluence with Irish Buffalo Creek, and 1.9 mi northeast of Rocky River.

DRAINAGE AREA.--278 mi².

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 500 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing discharge values on the daily values table are days when the flow exceeded the rating. A daily average of 12.1 ft³/s of treated effluent from the Mallard Creek Wastewater Treatment Plant was discharged into the river approximately 7 mi upstream of the gaging station. A daily average of 4.0 ft³/s of treated effluent from the Mooresville Wastewater Treatment Plant was discharged into the river approximately 15 mi upstream of the gaging station. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for period of record also occurred Aug. 14, 2002. Minimum discharge for current water year also occurred June 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	78	66	86	95	---	466	101	77	392	94	87
2	73	75	82	83	86	---	307	194	48	235	141	69
3	72	74	137	85	251	389	208	443	39	151	187	61
4	64	74	67	86	245	273	175	207	38	141	92	57
5	64	80	89	106	155	234	160	133	51	180	76	54
6	63	97	86	259	---	213	131	109	42	171	85	55
7	64	94	78	137	---	202	124	99	38	119	62	---
8	70	91	72	98	---	198	121	91	46	85	55	---
9	136	87	68	95	327	166	120	84	82	66	53	---
10	106	190	113	105	259	151	113	120	65	58	52	467
11	228	197	429	92	224	163	110	135	45	54	51	284
12	149	74	164	87	453	188	141	137	39	151	101	227
13	118	68	106	88	529	133	347	134	33	83	---	181
14	151	74	---	86	316	122	637	105	---	70	---	172
15	150	66	444	89	305	124	314	91	---	56	419	236
16	142	67	225	87	428	141	218	83	221	50	175	227
17	70	68	211	76	297	154	180	77	125	46	119	---
18	64	68	233	89	239	135	160	75	83	---	114	---
19	63	86	161	112	215	147	145	69	89	187	104	203
20	62	158	146	93	195	135	136	65	140	112	85	140
21	61	93	126	84	184	130	129	60	---	79	76	117
22	60	74	108	83	174	143	121	57	288	68	75	102
23	63	70	107	88	153	119	112	58	167	62	71	95
24	59	69	109	82	154	111	107	84	184	60	67	91
25	57	72	109	85	175	111	101	60	225	56	62	86
26	58	70	97	95	184	112	96	53	---	54	59	83
27	68	67	92	98	205	113	114	51	352	---	58	99
28	89	66	92	107	297	115	109	49	164	---	57	---
29	248	86	91	121	496	113	86	46	125	277	58	---
30	137	80	95	113	---	112	81	44	114	458	150	---
31	90	---	96	111	---	184	---	46	---	142	167	---
TOTAL	2,975	2,613	4,099	3,106	6,641	4,631	5,369	3,160	2,920	3,663	2,965	3,193
MEAN	96.0	87.1	137	100	255	160	179	102	112	131	102	145
MAX	248	197	444	259	529	389	637	443	352	458	419	467
MIN	57	66	66	76	86	111	81	44	33	46	51	54
CFSM	0.35	0.31	0.49	0.36	0.92	0.57	0.64	0.37	0.40	0.47	0.37	0.52
IN.	0.40	0.35	0.55	0.42	0.89	0.62	0.72	0.42	0.39	0.49	0.40	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

	2003	2003	2003	2002	2003	2003	2003	2003	2003	2003	2003	2000
MEAN	99.7	128	224	145	232	480	407	330	273	145	118	132
MAX	234	325	640	244	442	1,166	1,409	1,345	1,044	401	308	211
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	32.8	34.3	57.4	78.3	113	160	102	59.1	38.6	51.8	42.1	60.3
(WY)	(2002)	(2002)	(2001)	(2001)	(2001)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

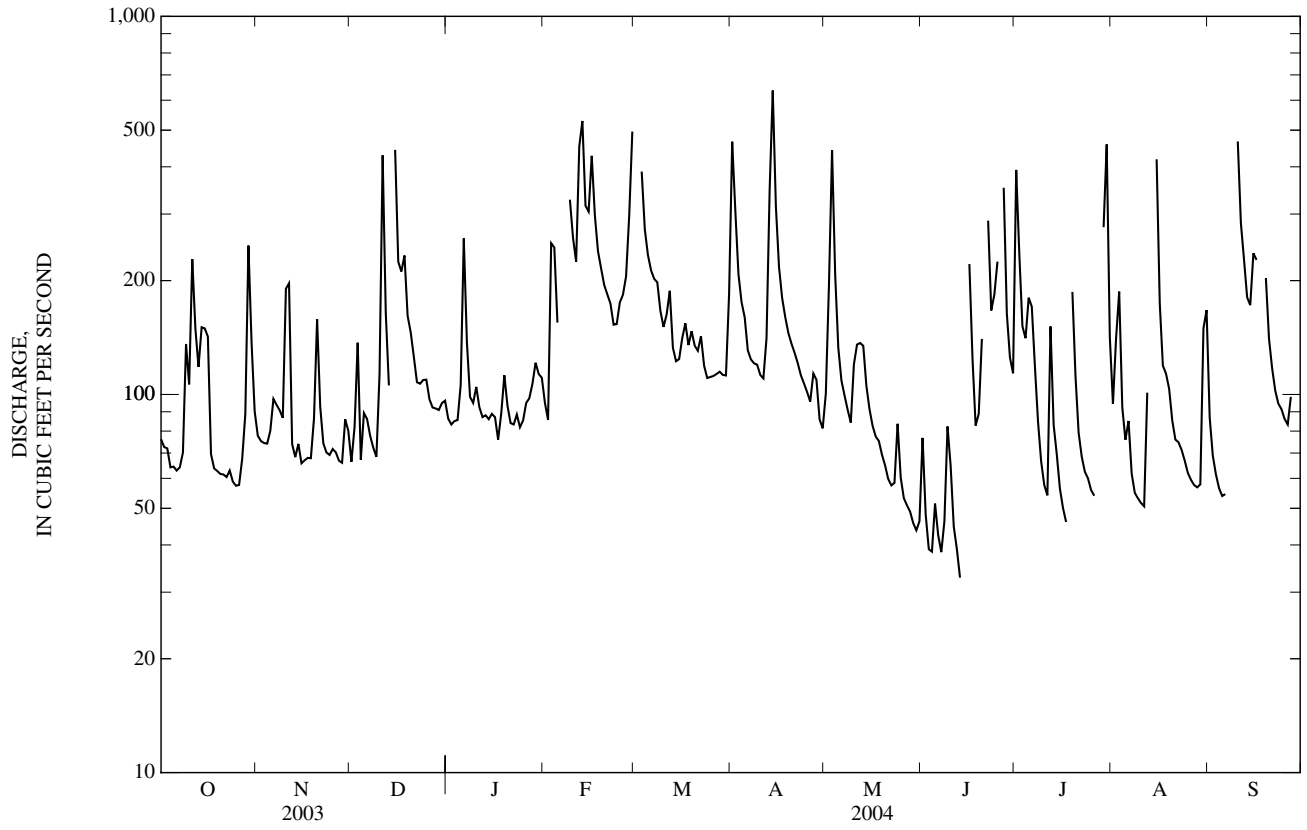
FOR 2004 WATER YEAR

WATER YEARS 2000 - 2004

LOWEST DAILY MEAN	57	Oct 25	33	Jun 13	13	Aug 13, 2002
MAXIMUM PEAK STAGE	22.36	Sep 28	23.21	Apr 11, 2003		
INSTANTANEOUS LOW FLOW	27*	Jun 13	11*	Aug 13, 2002		

* See REMARKS.

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC—Continued



0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC—Continued

PRECIPITATION RECORDS

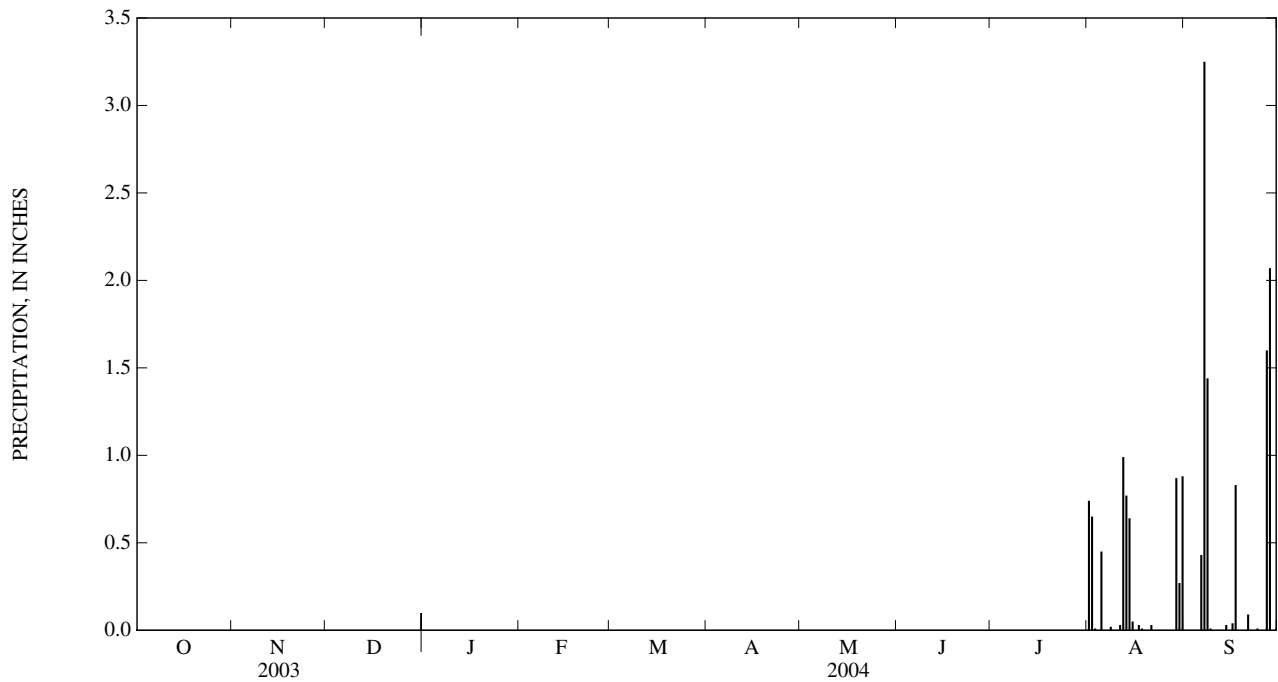
PERIOD OF RECORD.--August 2004 to September 2004.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	0.74	0.00
2	---	---	---	---	---	---	---	---	---	---	0.65	0.00
3	---	---	---	---	---	---	---	---	---	---	0.01	0.00
4	---	---	---	---	---	---	---	---	---	---	0.00	0.00
5	---	---	---	---	---	---	---	---	---	---	0.45	0.00
6	---	---	---	---	---	---	---	---	---	---	0.00	0.43
7	---	---	---	---	---	---	---	---	---	---	0.00	3.25
8	---	---	---	---	---	---	---	---	---	---	0.02	1.44
9	---	---	---	---	---	---	---	---	---	---	0.00	0.01
10	---	---	---	---	---	---	---	---	---	---	0.00	0.00
11	---	---	---	---	---	---	---	---	---	---	0.03	0.00
12	---	---	---	---	---	---	---	---	---	---	0.99	0.00
13	---	---	---	---	---	---	---	---	---	---	0.77	0.00
14	---	---	---	---	---	---	---	---	---	---	0.64	0.03
15	---	---	---	---	---	---	---	---	---	---	0.05	0.00
16	---	---	---	---	---	---	---	---	---	---	0.00	0.04
17	---	---	---	---	---	---	---	---	---	---	0.03	0.83
18	---	---	---	---	---	---	---	---	---	---	0.01	0.00
19	---	---	---	---	---	---	---	---	---	---	0.00	0.00
20	---	---	---	---	---	---	---	---	---	---	0.00	0.00
21	---	---	---	---	---	---	---	---	---	---	0.03	0.09
22	---	---	---	---	---	---	---	---	---	---	0.00	0.00
23	---	---	---	---	---	---	---	---	---	---	0.00	0.00
24	---	---	---	---	---	---	---	---	---	---	0.00	0.01
25	---	---	---	---	---	---	---	---	---	---	0.00	0.00
26	---	---	---	---	---	---	---	---	---	---	0.00	0.00
27	---	---	---	---	---	---	---	---	---	---	0.00	1.60
28	---	---	---	---	---	---	---	---	---	---	0.00	2.07
29	---	---	---	---	---	---	---	---	---	---	0.87	0.00
30	---	---	---	---	---	---	---	---	---	---	0.27	0.00
31	---	---	---	---	---	---	---	---	---	---	0.88	---
TOTAL	---	---	---	---	---	---	---	---	---	---	6.44	9.80



0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC

LOCATION.--Lat 35°12'30", long 80°34'48", Mecklenburg County, Hydrologic Unit 03040105, on right bank at wingwall on Secondary Road 3181, 4.25 mi northeast of Mint Hill.

DRAINAGE AREA.--12.6 mi².

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above NGVD of 1929, from topographic map. Radio telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred on Oct. 9, 2002, Sept. 22, 2003. Minimum discharge for current water year also occurred July 17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.5	3.9	3.5	3.7	63	8.3	2.7	e0.98	1.2	2.9	1.3
2	2.3	3.5	3.7	3.7	3.8	45	5.5	4.4	e0.71	1.0	2.9	1.0
3	2.1	3.3	3.7	3.6	11	18	4.8	3.2	0.70	1.2	3.2	0.85
4	2.2	3.4	4.0	3.5	6.1	12	4.4	2.6	0.76	1.2	1.8	0.76
5	2.3	3.5	5.3	3.8	4.8	10	3.9	2.4	1.0	1.6	3.1	0.69
6	2.3	3.7	4.4	4.4	54	9.0	3.7	2.2	0.83	5.7	2.4	0.75
7	2.9	3.6	4.1	3.4	31	7.7	3.7	2.1	0.86	1.3	1.3	e118
8	4.5	3.8	4.1	3.3	10	6.9	3.8	2.1	0.78	1.00	1.2	e252
9	4.4	3.7	4.1	3.8	7.3	6.6	3.5	2.0	2.7	0.90	1.1	14
10	3.4	3.5	14	3.8	6.3	6.4	3.5	1.9	2.6	0.78	1.0	6.0
11	12	3.7	11	3.3	5.7	5.7	3.7	1.8	0.92	1.8	1.00	4.0
12	4.4	3.7	4.9	3.5	16	5.4	4.2	1.9	0.69	3.0	2.8	3.2
13	3.7	3.5	4.3	3.4	11	4.8	10	1.8	0.80	1.2	15	2.7
14	3.8	3.6	21	3.4	8.9	4.6	6.8	1.6	1.2	0.90	24	2.5
15	4.0	3.8	8.7	3.6	11	4.7	4.6	1.6	1.8	0.73	5.9	2.4
16	3.5	3.9	6.0	3.4	9.9	5.9	3.8	1.5	1.4	0.59	3.3	2.9
17	3.2	4.4	7.3	3.4	7.5	5.0	3.5	1.4	0.91	1.1	2.4	26
18	3.1	5.0	6.0	4.4	6.8	4.5	3.3	1.4	0.74	90	1.8	9.3
19	3.3	8.7	5.0	3.9	6.2	4.8	3.2	1.4	0.67	3.7	1.5	4.4
20	3.2	5.8	4.5	3.3	5.7	4.3	3.2	1.4	0.82	2.3	1.4	3.3
21	3.1	e6.5	4.1	3.4	5.3	6.5	3.1	1.3	1.3	1.8	1.3	2.8
22	3.0	e5.3	4.1	3.4	4.8	4.6	3.0	1.3	1.5	1.5	1.4	2.5
23	3.2	e4.5	4.1	3.4	4.6	4.1	2.6	1.2	4.5	1.4	1.3	2.4
24	2.7	e3.9	4.8	3.4	4.6	3.9	2.5	1.2	6.7	1.2	1.2	2.3
25	2.9	3.7	4.0	3.6	4.3	3.9	2.3	1.1	5.9	1.0	1.1	2.2
26	4.4	3.7	3.8	3.9	4.9	3.9	2.4	0.89	8.0	1.0	1.0	2.2
27	4.0	3.7	3.7	3.7	8.2	3.9	2.6	0.81	2.4	4.5	0.84	e26
28	4.7	4.0	3.7	4.1	10	3.9	2.3	0.77	1.6	5.0	0.74	e348
29	13	4.1	3.7	4.4	22	3.7	2.2	0.86	1.3	33	1.0	22
30	3.8	4.0	3.7	4.7	---	4.2	2.2	0.74	1.2	8.2	3.7	11
31	3.0	---	3.5	4.2	---	6.8	---	0.85	---	3.2	2.0	---
TOTAL	120.8	125.0	173.2	114.6	295.4	283.7	116.6	52.42	56.27	183.00	95.58	877.45
MEAN	3.90	4.17	5.59	3.70	10.2	9.15	3.89	1.69	1.88	5.90	3.08	29.2
MAX	13	8.7	21	4.7	54	63	10	4.4	8.0	90	24	348
MIN	2.1	3.3	3.5	3.3	3.7	3.7	2.2	0.74	0.67	0.59	0.74	0.69
CFSM	0.31	0.33	0.44	0.29	0.81	0.73	0.31	0.13	0.15	0.47	0.24	2.32
IN.	0.36	0.37	0.51	0.34	0.87	0.84	0.34	0.15	0.17	0.54	0.28	2.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004
MEAN	5.33	7.80	14.4	5.21	15.0	25.6	31.3	20.4	29.4	13.3	7.49	16.3
MAX	6.77	11.4	23.2	6.72	19.9	41.9	58.7	39.2	56.9	20.8	11.9	29.2
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	3.90	4.17	5.59	3.70	10.2	9.15	3.89	1.69	1.88	5.90	3.08	3.39
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

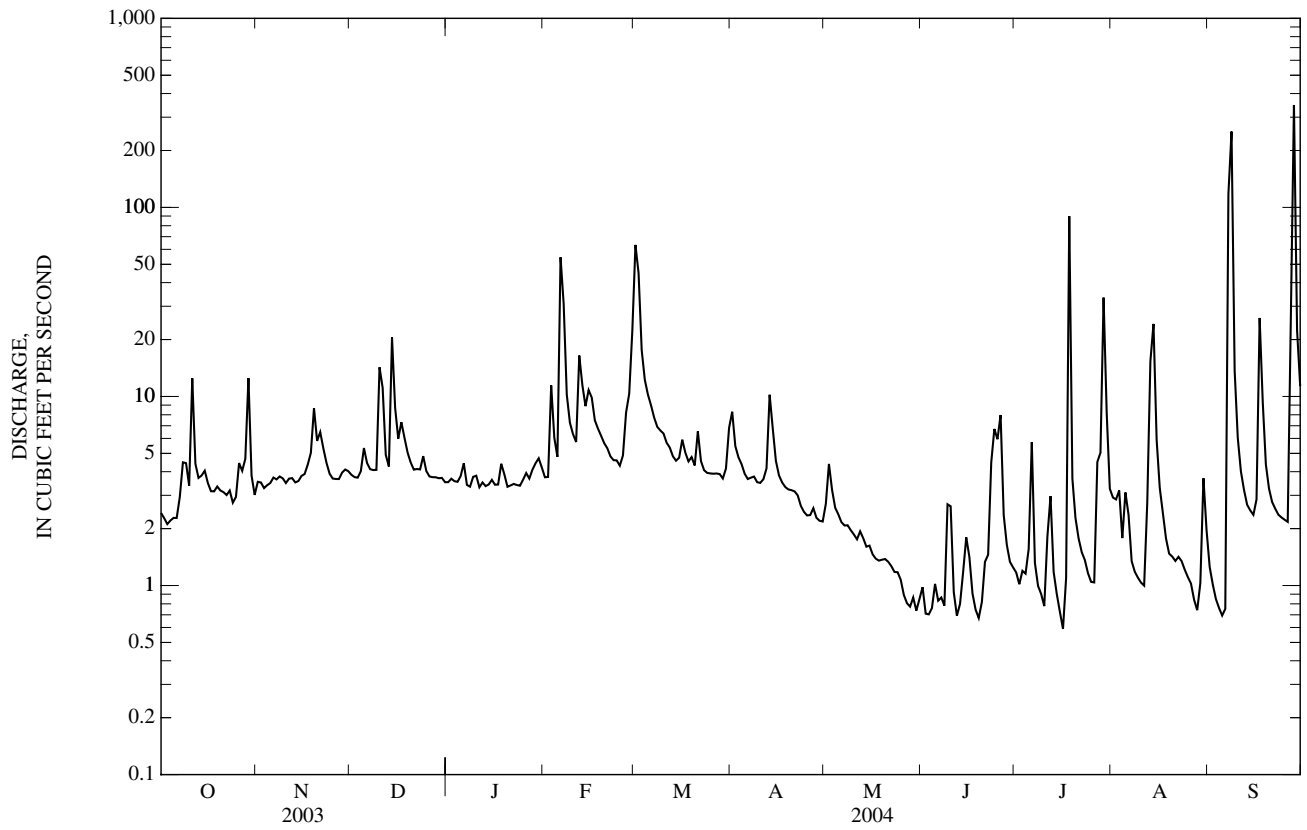
FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

ANNUAL TOTAL	8,282.0	2,494.02	
ANNUAL MEAN	22.7	6.81	15.9
HIGHEST ANNUAL MEAN			25.0
LOWEST ANNUAL MEAN			6.81
HIGHEST DAILY MEAN	646	Apr 10	348
LOWEST DAILY MEAN	2.1	Sep 21	0.59
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 30	0.80
MAXIMUM PEAK STAGE			10.92
INSTANTANEOUS LOW FLOW			0.49*
ANNUAL RUNOFF (CFSM)	1.80		0.541
ANNUAL RUNOFF (INCHES)	24.45		7.36
10 PERCENT EXCEEDS	47		8.8
50 PERCENT EXCEEDS	6.5		3.5
90 PERCENT EXCEEDS	3.2		1.0

* See REMARKS.
e Estimated.

0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC—Continued



0212467595 GOOSE CREEK NEAR INDIAN TRAIL, NC

LOCATION.--Lat 35°07'30", long 80°36'10", Union County, Hydrologic Unit 03040105, on left upstream wingwall on Secondary Road 1525, 4.9 mi northwest of Indian Trail.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--October 2003 to September 2004.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 550 ft above NGVD of 1929, from topographic map. Satellite telemetry at site.

REMARKS.--Records poor. Minimum discharge for current water year also occurred July 11, and is affected by regulation of unknown origin. Maximum discharge for current water year from rating curve extended above 1,480 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	3.3	2.7	3.4	3.3	58	13	3.5	1.4	6.5	1.7	2.2
2	1.8	3.1	2.6	3.5	3.4	48	6.3	4.8	1.2	2.6	1.7	2.0
3	1.9	3.0	2.5	3.5	11	18	5.3	3.8	0.84	2.0	2.6	1.7
4	2.1	2.8	2.8	3.5	4.0	12	4.9	3.0	0.95	2.0	1.3	1.7
5	2.2	2.5	3.5	3.7	3.4	9.2	4.4	2.9	1.2	2.1	5.3	1.6
6	2.3	2.4	3.0	3.9	93	7.3	4.2	2.7	0.93	5.5	4.0	1.5
7	3.0	2.5	2.8	3.3	24	5.8	4.1	2.6	1.1	1.8	1.7	232
8	4.3	2.6	2.8	3.3	7.3	5.1	4.1	2.5	1.6	1.3	1.4	301
9	4.1	2.7	2.7	4.1	5.8	5.2	4.0	2.5	5.0	0.83	1.4	17
10	3.4	2.7	15	3.7	5.1	4.8	3.9	2.4	3.4	0.72	1.0	9.7
11	11	2.6	8.0	3.5	4.6	5.1	3.9	2.2	1.8	1.4	1.1	7.8
12	4.8	2.6	3.7	3.5	17	4.8	4.4	3.3	1.4	5.3	8.3	7.1
13	e3.0	2.6	3.3	3.2	8.3	3.9	17	2.6	4.9	1.7	59	3.1
14	e2.8	2.6	21	3.2	8.1	4.1	7.6	2.3	2.9	1.2	71	2.6
15	e2.8	2.8	6.4	3.2	10	4.6	5.0	2.2	3.7	0.99	14	2.6
16	e2.9	2.9	4.2	3.1	7.2	5.5	4.5	2.2	5.0	0.94	4.7	6.5
17	2.6	3.0	5.7	3.2	5.7	4.8	4.3	2.2	2.5	1.9	3.2	47
18	2.4	2.9	4.7	4.1	4.7	4.8	4.1	2.1	1.7	22	2.7	10
19	2.4	6.6	4.0	3.7	4.2	4.8	8.0	2.0	1.5	2.7	2.4	4.0
20	2.3	3.9	3.7	3.2	3.7	4.6	4.1	2.0	1.2	1.9	2.2	3.1
21	2.2	5.8	3.5	3.4	3.6	6.5	3.6	1.5	2.2	1.5	2.0	2.8
22	2.2	5.5	3.5	4.8	3.3	4.6	3.4	1.4	2.3	0.99	1.8	2.5
23	2.0	2.6	3.6	4.6	3.2	4.2	3.3	1.7	31	1.0	1.7	2.3
24	1.9	2.5	4.2	3.5	3.2	4.1	3.2	1.7	24	0.89	1.5	1.7
25	2.1	2.5	3.8	3.6	3.2	4.1	3.1	1.3	15	0.82	1.4	1.7
26	2.9	2.5	3.5	3.6	3.7	4.1	3.3	1.5	11	0.93	1.3	1.7
27	2.4	2.6	3.5	3.5	7.1	4.2	3.4	1.4	3.9	4.3	1.3	93
28	5.4	2.6	3.5	3.8	12	4.1	3.0	1.4	3.2	5.8	1.3	484
29	13	2.9	3.5	3.7	24	4.0	2.9	1.1	2.7	11	4.2	18
30	4.0	2.8	3.5	3.6	---	4.5	2.9	1.1	6.3	3.3	6.4	9.8
31	3.6	---	3.4	3.4	---	8.5	---	1.4	---	2.0	2.4	---
TOTAL	105.6	92.4	144.6	111.3	297.1	273.3	149.2	69.3	145.82	97.91	216.0	1,281.7
MEAN	3.41	3.08	4.66	3.59	10.2	8.82	4.97	2.24	4.86	3.16	6.97	42.7
MAX	13	6.6	21	4.8	93	58	17	4.8	31	22	71	484
MIN	1.8	2.4	2.5	3.1	3.2	3.9	2.9	1.1	0.84	0.72	1.0	1.5
CFSM	0.31	0.28	0.42	0.33	0.93	0.80	0.45	0.20	0.44	0.29	0.63	3.88
IN.	0.36	0.31	0.49	0.38	1.00	0.92	0.50	0.23	0.49	0.33	0.73	4.33

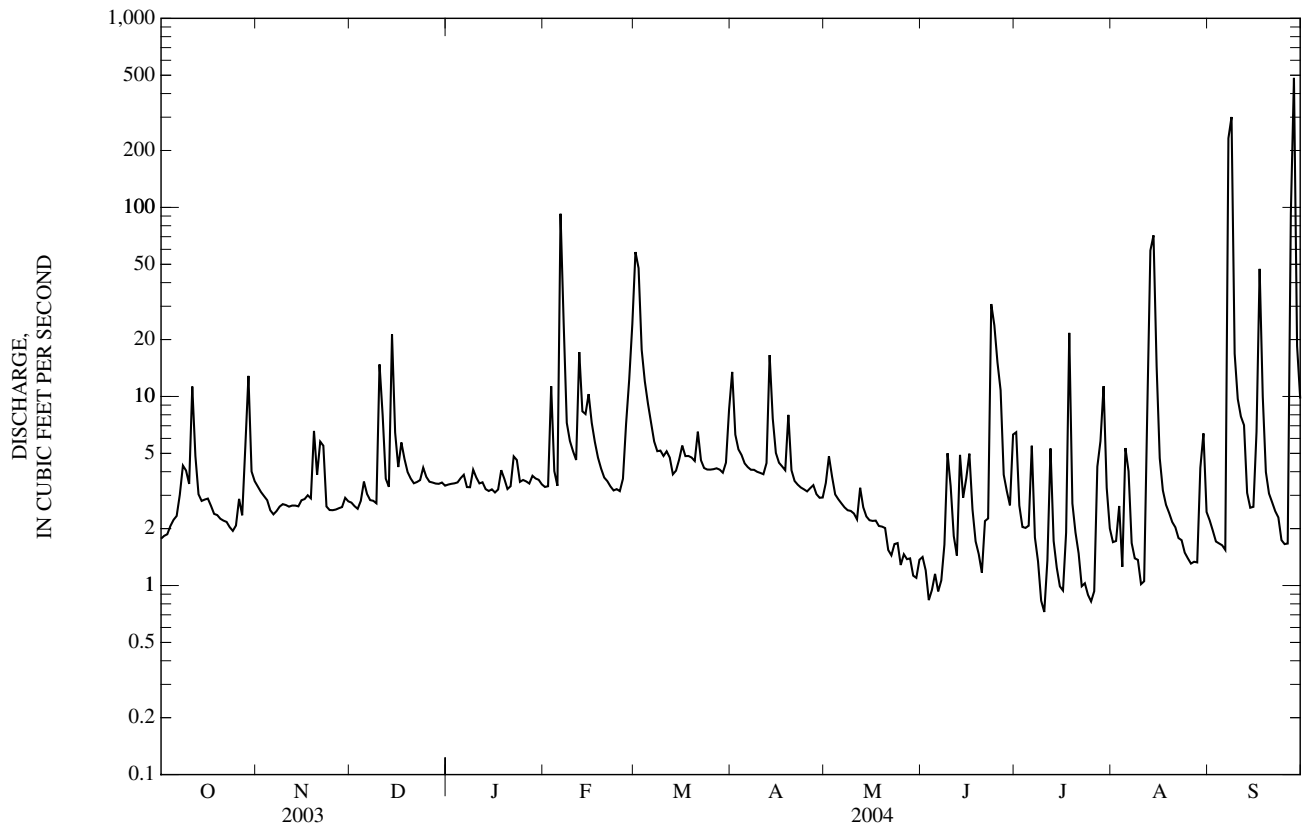
SUMMARY STATISTICS

FOR 2004 WATER YEAR

ANNUAL TOTAL	2,984.23
ANNUAL MEAN	8.15
HIGHEST DAILY MEAN	484 Sep 28
LOWEST DAILY MEAN	0.72 Jul 10
ANNUAL SEVEN-DAY MINIMUM	1.1 Jun 1
MAXIMUM PEAK FLOW	2,010* Sep 28
MAXIMUM PEAK STAGE	9.64 Sep 28
INSTANTANEOUS LOW FLOW	0.54* Jul 10
ANNUAL RUNOFF (CFSM)	0.741
ANNUAL RUNOFF (INCHES)	10.09
10 PERCENT EXCEEDS	9.3
50 PERCENT EXCEEDS	3.3
90 PERCENT EXCEEDS	1.4

* See REMARKS.

e Estimated.



02124692 GOOSE CREEK NEAR FAIRVIEW, NC

LOCATION.--Lat 35°09'13", long 80°32'07", Union County, Hydrologic Unit 03040105, on right bank at downstream side of culvert on U.S. Highway 601, 1.0 mi north of Fairview, and 2.0 mi above Duck Creek.

DRAINAGE AREA.--24.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1999 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m). WDR NC-03-1B: 2000(M), 2001(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 460 ft above NGVD of 1929 (revised), from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated discharges, which are poor. Maximum peak stage for current water year and period of record from crest-stage gage. Maximum peak flow for current water year and period of record from rating curve extended above 2,620 ft³/s. Minimum discharge for current water year affected by regulation of unknown origin. No flow also occurred Aug. 12, 13, 14, 15, 16, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	3.1	2.9	3.2	3.6	212	18	2.8	1.1	7.3	1.7	1.7
2	1.8	2.9	2.5	3.2	3.6	153	11	4.4	1.1	5.4	1.6	1.3
3	2.0	2.7	2.4	3.2	24	49	7.7	4.8	0.47	2.3	2.1	1.0
4	2.2	2.7	2.9	3.3	13	26	7.0	3.1	0.32	2.0	1.7	0.93
5	3.3	2.8	5.7	3.4	8.6	18	5.9	2.5	0.30	2.5	1.0	0.94
6	2.4	2.8	6.0	4.2	224	15	5.1	2.4	0.56	6.8	7.4	0.92
7	2.4	3.0	5.1	3.4	260	13	4.9	2.3	0.42	3.0	2.2	e150
8	3.0	2.9	3.1	3.1	27	10	4.7	2.1	0.22	1.5	1.2	e980
9	5.8	3.0	2.6	3.6	17	9.2	4.7	2.1	2.7	1.2	0.86	45
10	3.4	3.0	9.8	4.2	14	8.7	4.3	2.0	4.0	2.0	0.80	16
11	14	2.7	26	3.6	12	8.8	4.3	1.9	1.4	3.9	0.43	11
12	5.6	2.7	6.0	3.5	65	8.6	4.9	2.0	1.0	7.6	1.4	8.9
13	3.5	2.4	4.2	3.5	35	6.5	18	4.2	1.9	2.8	29	6.3
14	3.1	2.2	39	3.3	30	5.9	16	2.4	6.2	1.5	e180	3.4
15	3.1	2.3	16	3.3	53	6.3	8.0	2.1	3.6	1.2	29	6.1
16	3.1	2.7	7.3	3.2	36	8.5	6.0	1.9	6.0	0.95	10	8.3
17	2.8	3.1	7.5	3.1	19	8.2	5.5	2.0	5.4	1.1	4.5	75
18	2.8	3.4	8.5	4.0	15	6.5	5.2	2.0	2.2	20	2.7	33
19	2.9	7.5	5.6	4.8	12	7.0	6.8	1.8	1.6	3.8	2.3	8.8
20	3.0	7.9	4.7	3.6	10	6.1	6.8	1.7	1.3	1.8	1.9	5.0
21	2.9	5.3	4.0	3.3	8.6	8.9	4.0	1.7	1.4	1.2	1.5	4.0
22	2.7	6.7	4.0	4.3	7.5	6.7	3.6	1.2	3.1	1.0	1.5	3.7
23	2.6	5.0	3.9	5.1	6.8	5.6	3.4	1.1	4.4	0.78	1.3	3.2
24	2.7	2.9	4.3	4.1	6.7	5.6	3.1	1.3	42	0.68	1.2	2.7
25	2.8	2.8	4.4	3.8	6.3	5.4	2.9	1.5	23	0.63	1.1	2.3
26	2.9	2.8	3.6	4.0	6.8	5.2	2.9	1.3	15	0.54	0.98	2.2
27	4.3	2.9	3.5	3.5	14	5.1	3.4	1.5	6.2	1.8	0.93	5.8
28	3.1	4.2	3.4	4.1	29	5.1	3.0	1.4	3.3	8.7	1.0	e1,180
29	19	4.1	3.4	4.6	93	4.7	2.7	1.2	2.7	8.4	1.6	47
30	6.0	3.3	3.4	4.4	---	5.0	2.7	1.1	4.3	6.3	8.8	18
31	3.7	---	3.1	4.1	---	11	---	0.90	---	2.2	2.8	---
TOTAL	124.6	105.8	208.8	116.0	1,060.5	654.6	186.5	64.70	147.19	110.88	304.50	2,632.49
MEAN	4.02	3.53	6.74	3.74	36.6	21.1	6.22	2.09	4.91	3.58	9.82	87.7
MAX	19	7.9	39	5.1	260	212	18	4.8	42	20	180	1,180
MIN	1.7	2.2	2.4	3.1	3.6	4.7	2.7	0.90	0.22	0.54	0.43	0.92
CFSM	0.17	0.15	0.28	0.16	1.52	0.88	0.26	0.09	0.20	0.15	0.41	3.66
IN.	0.19	0.16	0.32	0.18	1.64	1.01	0.29	0.10	0.23	0.17	0.47	4.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

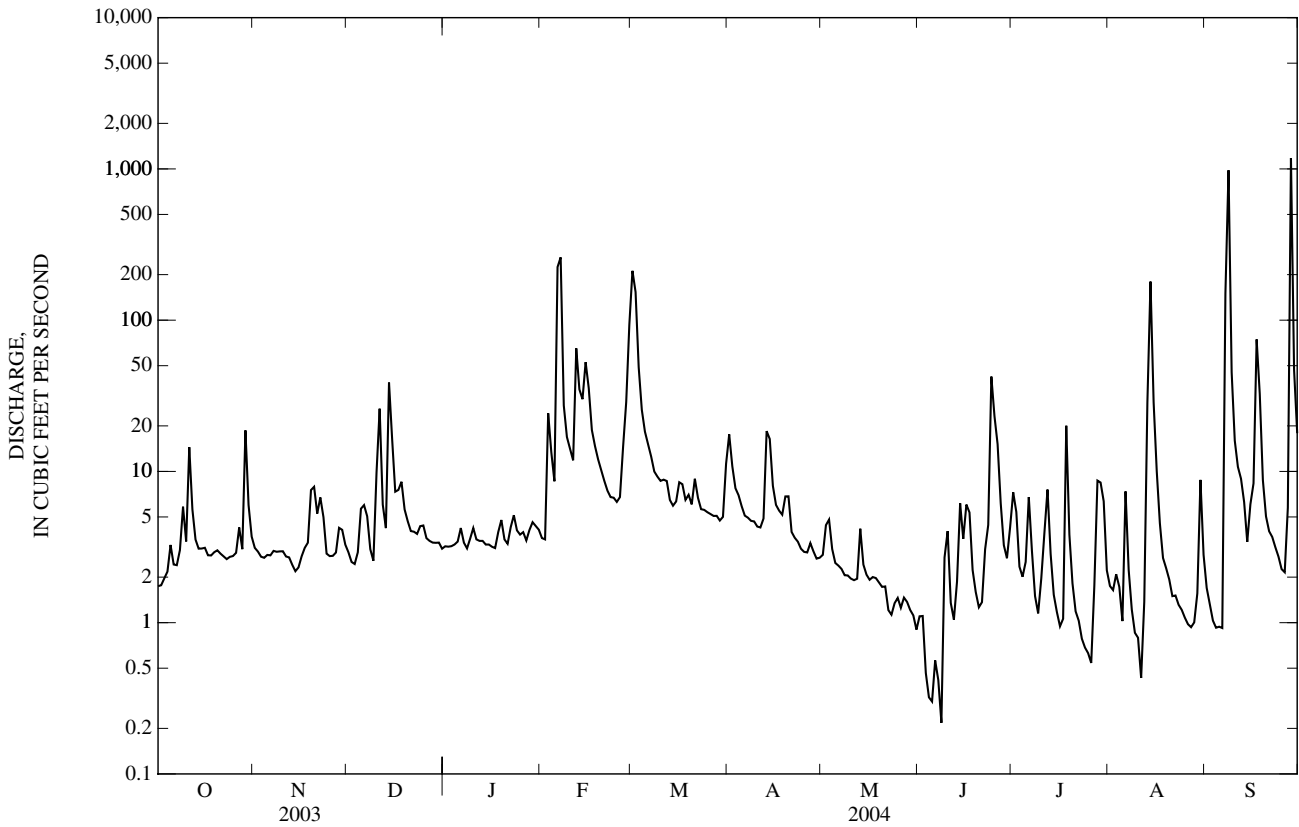
MEAN	4.90	9.22	16.5	16.4	33.0	40.7	33.0	14.2	15.6	13.2	10.1	21.5
MAX	12.3	33.6	59.1	33.1	60.4	111	133	59.2	55.4	57.8	31.0	87.7
(WY)	(2003)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.70	0.91	2.99	3.74	7.02	15.7	5.82	2.09	0.75	1.49	0.54	3.36
(WY)	(2001)	(2002)	(2001)	(2004)	(2001)	(2000)	(2001)	(2004)	(2002)	(2001)	(2001)	(2003)

02124692 GOOSE CREEK NEAR FAIRVIEW, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	16,341.3		5,716.56		20.5	
ANNUAL MEAN	44.8		15.6		52.4	
HIGHEST ANNUAL MEAN					6.25	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,510	Mar 20	1,180	Sep 28	1,510	Mar 20, 2003
LOWEST DAILY MEAN	1.7	Oct 1	0.22	Jun 8	0.00	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 30	0.48	Jun 2	0.01	Aug 10, 2002
MAXIMUM PEAK FLOW			3,090*	Sep 28	3,090*	Sep 28, 2004
MAXIMUM PEAK STAGE			10.40*	Sep 28	10.40*	Sep 28, 4007
INSTANTANEOUS LOW FLOW			0.15*	Jun 8	0.00*	Aug 11, 2002
ANNUAL RUNOFF (CFSM)	1.87		0.651		0.855	
ANNUAL RUNOFF (INCHES)	25.33		8.86		11.61	
10 PERCENT EXCEEDS	85		17		34	
50 PERCENT EXCEEDS	8.9		3.5		3.3	
90 PERCENT EXCEEDS	2.8		1.2		0.47	

* See REMARKS.

e Estimated.



02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1999 to current year.

pH: November 1999 to current year.

WATER TEMPERATURE: November 1999 to current year.

DISSOLVED OXYGEN: November 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: November 1999 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from November 1999 to current year, optical backscatterance sensor from April 2000 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Transportation to characterize water-quality and suspended sediment concentrations in the Goose Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 747 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	414, April 25, 2001	38, April 10, 2003
pH, standard units	9.1, March 24, 2004	4.7, March 1, 2004
WATER TEMPERATURE, °C	27.7, July 30, 2002	0.0, January 24, 25, 2003
DISSOLVED OXYGEN, mg/L	14.9, January 25, 28, 2003	2.5, August 24, 2002
DISSOLVED OXYGEN, PERCENT SATURATION,%	118, March 29, 2003	29, October 26, 2001

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	273, February 1	54, September 28
pH, standard units	9.1, March 24	4.7, March 1
WATER TEMPERATURE, °C	27.3, July 11	0.2, February 27, 28
DISSOLVED OXYGEN, mg/L	13.2, January 21, 22	4.1, November 7, 8, August 6
DISSOLVED OXYGEN, PERCENT SATURATION,%	116, March 19	44, November 8

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
NOV					AUG				
04...	1145	2.8	6	.05	14...	0900	241	477	310
20...	1415	6.1	8	.13	14...	0915	287	658	510
JUN					SEP				
24...	1345	15	108	4.4	28...	1145	2,090	118	666
25...	1115	18	114	5.5					
25...	1230	15	114	4.6					
25...	1415	13	115	4.0					
25...	1515	12	108	3.5					
25...	1530	12	110	3.6					

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	177	173	175	182	165	176	173	171	172	188	182	185
2	173	169	171	185	182	183	171	169	170	189	183	186
3	181	172	176	189	185	186	173	168	171	191	183	186
4	191	181	186	192	189	190	175	171	173	192	187	190
5	191	171	185	197	192	196	176	172	174	193	187	191
6	182	168	175	205	197	201	176	174	176	195	192	194
7	189	182	186	208	204	206	177	176	177	195	190	192
8	189	186	188	208	205	207	177	173	175	194	186	189
9	191	179	186	209	205	207	177	173	176	190	184	187
10	183	176	181	206	198	202	194	174	179	190	186	188
11	176	156	165	198	193	196	187	126	139	189	183	186
12	156	132	138	197	193	194	149	138	143	184	178	181
13	144	132	135	199	195	197	159	148	154	191	182	185
14	162	144	156	197	192	196	178	133	151	197	187	191
15	178	162	168	192	186	188	153	140	146	199	190	194
16	182	178	180	191	189	190	159	152	155	196	187	191
17	190	182	188	195	189	191	185	158	169	192	185	188
18	193	188	191	198	195	197	185	176	180	189	182	186
19	197	192	194	196	190	194	187	174	180	191	186	189
20	198	196	198	194	189	191	185	179	181	190	183	188
21	196	194	195	191	166	177	181	178	179	183	178	181
22	200	195	197	175	165	170	181	177	179	188	179	183
23	201	197	199	165	135	142	185	178	183	188	181	184
24	202	200	201	135	129	132	188	181	185	187	178	183
25	204	201	202	134	128	131	186	181	184	182	173	178
26	206	203	204	147	134	139	186	178	182	175	171	173
27	207	201	204	166	146	158	182	177	180	185	175	179
28	202	196	200	172	164	169	185	178	181	187	179	183
29	197	151	179	173	168	171	189	182	185	192	184	188
30	151	142	144	175	168	172	189	184	186	204	190	194
31	165	143	153	---	---	---	188	182	185	261	204	220
MONTH	207	132	181	209	128	182	194	126	173	261	171	188
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	273	221	249	141	88	119	181	156	169	195	191	192
2	221	200	209	95	88	92	157	152	155	200	195	197
3	257	180	204	116	94	107	159	151	155	198	189	195
4	221	180	200	130	116	125	164	158	160	192	181	189
5	193	180	187	138	130	134	170	160	163	181	174	177
6	213	95	174	145	138	142	170	163	166	---	---	---
7	133	91	117	150	143	145	177	170	173	191	179	186
8	150	133	142	151	148	150	180	175	177	201	190	197
9	161	148	153	157	150	154	179	175	177	206	200	202
10	164	159	161	163	157	161	181	176	178	207	205	205
11	164	161	162	164	159	161	182	177	180	209	206	208
12	200	129	156	164	157	160	182	178	180	212	207	209
13	151	133	144	161	157	159	192	169	179	218	210	214
14	200	150	164	163	157	160	170	138	142	221	218	220
15	194	157	167	172	163	166	151	140	146	222	218	220
16	165	160	162	180	171	174	164	151	157	218	210	214
17	167	159	162	180	169	174	169	162	164	216	210	213
18	168	163	166	173	168	170	174	168	170	221	215	219
19	172	166	169	173	169	171	179	172	174	222	220	221
20	174	170	172	173	165	169	182	165	177	224	221	222
21	175	170	173	175	168	170	165	151	155	227	222	224
22	175	170	173	173	168	170	159	152	154	230	224	227
23	179	171	174	172	164	167	175	159	169	231	215	227
24	183	175	178	172	166	170	182	175	178	235	227	230
25	183	177	180	173	168	170	186	182	184	240	235	237
26	183	164	175	175	170	172	187	183	185	249	240	244
27	169	157	162	178	175	176	188	184	186	256	248	251
28	203	162	176	182	175	179	192	186	188	256	254	255
29	196	121	159	186	180	183	195	190	193	255	251	253
30	---	---	---	188	183	187	197	191	194	252	248	250
31	---	---	---	193	180	186	---	---	---	251	246	249
MONTH	273	91	171	193	88	159	197	138	171	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	251	246	248	196	153	186	117	110	113	178	153	161
2	252	250	251	158	142	149	130	116	122	154	152	153
3	253	249	251	143	137	140	150	130	137	163	154	156
4	253	229	247	147	137	143	177	150	164	182	162	168
5	249	245	247	145	134	143	188	170	178	184	167	175
6	249	244	246	212	140	179	223	187	207	185	176	182
7	258	248	252	209	200	204	223	185	206	223	83	165
8	259	246	255	214	208	211	185	156	171	114	69	90
9	254	247	252	210	184	201	156	149	153	131	111	125
10	268	253	260	185	168	177	151	148	149	131	125	128
11	268	239	258	173	125	165	153	149	151	132	129	131
12	239	215	228	232	125	184	154	138	151	137	131	133
13	215	199	209	256	223	245	260	70	202	140	132	137
14	210	195	201	256	219	242	104	67	85	145	137	140
15	223	210	217	219	189	209	135	104	121	169	144	153
16	213	177	187	190	186	188	132	121	126	169	155	162
17	199	187	193	186	169	182	147	132	140	221	103	156
18	190	184	188	255	80	129	157	147	154	155	132	146
19	185	182	184	93	80	86	167	157	160	164	155	160
20	190	184	186	104	93	100	188	167	178	177	164	169
21	193	185	190	115	104	110	197	188	192	181	177	179
22	205	192	198	137	115	124	204	197	201	195	180	185
23	215	178	206	154	137	142	207	195	203	201	195	199
24	216	99	111	166	154	158	206	198	201	208	201	206
25	125	86	102	179	166	171	210	204	206	210	205	207
26	129	100	118	189	179	184	211	209	210	213	210	211
27	131	117	124	195	181	190	216	209	211	230	197	209
28	146	131	138	240	191	227	224	215	217	258	54	94
29	158	146	152	237	135	198	225	211	222	132	108	122
30	179	158	165	151	103	121	250	211	237	133	123	129
31	---	---	---	110	103	107	248	178	212	---	---	---
MONTH	268	86	202	256	80	168	260	67	174	258	54	158

PEE DEE RIVER BASIN

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.3	7.4	7.1	7.0	7.0	7.5	7.3	7.4	7.4	7.2	7.3
2	7.5	7.4	7.5	7.0	6.8	6.9	7.4	7.2	7.3	7.4	7.3	7.3
3	7.5	7.4	7.4	7.0	6.8	6.9	7.3	7.2	7.2	7.4	7.2	7.3
4	7.5	7.4	7.4	7.3	6.9	7.1	7.3	7.2	7.2	7.4	7.2	7.3
5	7.5	7.3	7.4	7.2	6.9	7.1	7.3	7.1	7.2	7.3	7.1	7.2
6	7.3	7.3	7.3	6.9	6.8	6.9	7.2	7.1	7.2	7.3	7.2	7.3
7	7.3	7.1	7.2	6.9	6.9	6.9	7.3	7.1	7.2	7.5	7.2	7.4
8	7.1	7.0	7.0	7.0	6.9	7.0	7.2	7.1	7.2	7.6	7.4	7.5
9	7.1	7.0	7.0	7.2	7.0	7.1	7.5	7.2	7.3	7.5	7.4	7.5
10	7.0	7.0	7.0	7.2	7.2	7.2	7.6	7.3	7.5	7.6	7.4	7.5
11	7.1	6.9	7.0	7.3	7.2	7.3	7.4	7.2	7.3	7.7	7.5	7.6
12	7.0	6.9	7.0	7.4	7.2	7.3	7.3	7.2	7.3	7.7	7.5	7.6
13	7.0	6.9	6.9	7.4	7.3	7.3	7.4	7.3	7.4	7.7	7.5	7.6
14	7.0	6.9	7.0	7.3	7.2	7.3	7.4	7.2	7.3	7.9	7.5	7.7
15	7.0	6.9	7.0	7.2	7.2	7.2	7.3	7.2	7.3	8.0	7.8	7.9
16	7.1	7.0	7.0	7.2	7.1	7.2	7.3	7.2	7.2	8.0	7.7	7.8
17	7.1	7.1	7.1	7.2	7.0	7.1	7.5	7.2	7.3	7.9	7.7	7.8
18	7.1	7.1	7.1	7.1	7.0	7.0	7.5	7.3	7.4	7.8	7.6	7.7
19	7.2	7.1	7.1	7.1	6.9	7.0	7.4	7.2	7.3	7.7	7.4	7.6
20	7.2	7.1	7.2	7.1	6.9	7.0	7.3	7.2	7.3	7.6	7.3	7.5
21	7.4	7.1	7.2	7.0	6.9	6.9	7.3	7.2	7.2	7.8	7.3	7.5
22	7.3	7.2	7.3	7.1	6.9	7.0	7.3	7.1	7.2	7.8	7.5	7.7
23	7.3	7.3	7.3	7.0	7.0	7.0	7.1	7.0	7.1	7.8	7.5	7.7
24	7.3	7.3	7.3	7.0	7.0	7.0	7.2	6.9	7.1	7.7	7.4	7.6
25	7.4	7.3	7.3	7.1	7.0	7.0	7.3	7.2	7.2	7.6	7.3	7.5
26	7.3	7.3	7.3	7.2	7.1	7.1	7.3	7.2	7.3	7.5	7.3	7.4
27	7.4	7.2	7.3	7.2	7.2	7.2	7.4	7.3	7.3	7.4	7.3	7.4
28	7.4	7.3	7.3	7.2	7.2	7.2	7.4	7.3	7.3	7.9	7.2	7.5
29	7.4	7.2	7.3	7.3	7.2	7.2	7.4	7.3	7.3	8.0	7.7	7.8
30	7.2	7.1	7.1	7.3	7.3	7.3	7.3	7.2	7.3	8.0	7.6	7.8
31	7.2	7.0	7.1	---	---	---	7.3	7.2	7.3	7.9	7.6	7.8
MONTH	7.5	6.9	7.2	7.4	6.8	7.1	7.6	6.9	7.3	8.0	7.1	7.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.5	7.7	7.1	4.7	6.2	7.5	7.2	7.3	7.4	7.3	7.4
2	8.0	7.6	7.8	5.7	5.0	5.6	7.6	7.1	7.3	7.5	7.3	7.4
3	8.0	7.2	7.5	5.8	5.6	5.7	7.7	7.3	7.5	7.5	7.3	7.4
4	7.3	7.1	7.2	6.0	5.6	5.8	7.8	7.3	7.5	7.5	7.4	7.4
5	7.4	7.2	7.3	6.3	5.8	6.0	7.8	7.3	7.5	7.5	7.4	7.4
6	7.2	6.6	7.0	6.5	6.1	6.3	7.9	7.3	7.5	---	---	---
7	6.8	6.5	6.7	6.7	6.2	6.5	7.7	7.2	7.4	7.6	7.4	7.5
8	6.8	6.7	6.8	6.8	6.5	6.6	7.6	7.1	7.3	7.5	7.4	7.4
9	7.1	6.8	6.9	7.3	6.7	6.9	7.7	7.1	7.3	7.5	7.2	7.3
10	7.0	6.9	6.9	7.6	7.1	7.3	7.6	7.1	7.3	7.2	7.0	7.1
11	6.9	6.8	6.9	7.6	7.3	7.4	7.5	7.1	7.3	7.2	6.9	7.0
12	6.9	6.7	6.8	7.7	7.4	7.5	7.2	7.1	7.2	7.5	7.0	7.1
13	6.7	6.5	6.6	8.0	7.4	7.6	7.3	7.2	7.2	7.3	7.1	7.2
14	6.8	6.6	6.7	8.1	7.4	7.6	7.2	7.1	7.1	7.3	7.2	7.3
15	6.8	6.7	6.8	7.7	7.3	7.4	7.3	7.1	7.2	7.3	7.2	7.2
16	6.8	6.8	6.8	7.7	7.2	7.3	7.3	7.1	7.2	7.4	7.3	7.3
17	6.9	6.7	6.8	8.3	7.2	7.6	7.3	7.1	7.2	7.4	7.3	7.3
18	7.2	6.8	7.0	8.2	7.6	7.8	7.3	7.1	7.2	7.3	7.2	7.3
19	7.2	7.0	7.1	8.7	7.6	7.9	7.3	7.0	7.2	7.3	7.1	7.2
20	7.2	7.0	7.1	8.9	7.7	8.1	7.4	7.1	7.2	7.5	7.2	7.3
21	7.2	7.0	7.1	8.8	7.7	8.1	7.3	7.1	7.2	7.5	7.2	7.3
22	7.2	7.0	7.1	9.0	7.9	8.3	7.3	7.1	7.2	7.6	7.4	7.5
23	7.2	7.0	7.1	9.0	7.8	8.3	7.2	7.0	7.1	7.8	7.5	7.7
24	7.3	7.1	7.1	9.1	7.8	8.4	7.2	7.0	7.1	7.6	7.5	7.6
25	7.3	7.0	7.1	9.0	7.8	8.4	7.2	7.0	7.1	7.6	7.4	7.5
26	7.3	7.1	7.2	8.9	7.6	8.2	7.1	7.0	7.1	7.7	7.4	7.5
27	7.2	7.1	7.1	8.7	7.5	8.0	7.2	7.0	7.1	7.6	7.4	7.5
28	7.1	6.9	7.0	8.1	7.4	7.7	7.4	7.0	7.2	7.6	7.2	7.4
29	6.9	6.5	6.7	7.9	7.3	7.5	7.5	7.3	7.4	7.5	7.2	7.3
30	---	---	---	7.5	7.2	7.3	7.5	7.4	7.4	7.3	7.2	7.3
31	---	---	---	7.4	7.2	7.3	---	---	---	7.3	7.0	7.2
MONTH	8.0	6.5	7.0	9.1	4.7	7.3	7.9	7.0	7.3	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.0	7.0	7.8	7.6	7.7	7.7	7.6	7.6	7.5	7.2	7.4
2	7.3	7.0	7.2	7.6	6.8	7.1	7.6	7.5	7.5	7.8	7.5	7.6
3	7.6	7.2	7.4	6.9	6.7	6.8	7.8	7.5	7.6	8.0	7.8	7.9
4	7.6	7.3	7.4	6.9	6.7	6.8	7.9	7.7	7.8	8.0	7.8	7.9
5	7.7	7.4	7.6	6.9	6.7	6.8	7.8	7.6	7.8	8.0	7.8	7.9
6	7.8	7.5	7.6	6.9	6.6	6.8	7.8	7.5	7.7	8.0	7.9	7.9
7	8.1	7.6	7.8	7.1	6.8	7.0	7.7	7.5	7.7	8.0	7.6	7.9
8	8.0	7.6	7.7	7.3	7.1	7.2	7.6	7.5	7.5	7.6	6.7	7.0
9	7.6	7.5	7.5	7.2	7.0	7.1	7.5	7.4	7.4	7.1	7.0	7.0
10	7.5	7.2	7.4	7.0	6.8	6.9	7.5	7.3	7.4	7.2	7.0	7.1
11	7.2	6.8	7.1	7.2	6.7	7.0	7.5	7.3	7.4	7.2	7.1	7.2
12	7.2	6.8	6.9	7.0	6.5	6.7	7.5	7.2	7.3	7.2	7.1	7.2
13	7.1	7.0	7.0	7.2	6.9	7.0	7.8	6.7	7.3	7.2	7.0	7.2
14	7.3	7.1	7.2	7.4	6.7	7.1	7.6	7.1	7.3	7.0	6.6	6.9
15	7.2	7.0	7.0	7.2	7.1	7.2	7.4	7.0	7.2	7.1	6.8	6.9
16	7.1	7.0	7.0	7.2	7.0	7.1	7.2	7.0	7.1	7.2	7.0	7.1
17	7.2	7.0	7.1	7.2	7.0	7.1	7.2	7.1	7.1	7.3	6.8	7.0
18	7.2	7.0	7.0	7.1	6.5	6.7	7.2	7.0	7.0	7.1	6.9	7.0
19	7.1	6.9	7.0	6.6	6.5	6.6	7.1	7.0	7.0	7.1	7.0	7.0
20	7.0	6.9	7.0	6.8	6.6	6.7	7.1	6.9	7.0	7.2	7.0	7.1
21	7.0	6.9	6.9	7.3	6.7	6.9	7.1	6.9	7.0	7.2	7.0	7.1
22	7.2	6.9	7.0	7.1	6.9	7.0	7.0	6.9	6.9	7.1	7.1	7.1
23	7.8	7.0	7.3	7.1	6.6	6.9	6.9	6.8	6.9	7.2	7.1	7.1
24	7.5	6.9	7.2	6.9	6.5	6.7	6.9	6.8	6.9	7.2	7.1	7.2
25	7.2	6.9	7.1	7.1	6.8	6.9	7.0	6.9	6.9	7.2	7.2	7.2
26	7.4	7.0	7.2	7.4	6.9	7.2	7.0	6.9	7.0	7.3	7.2	7.2
27	7.6	7.3	7.5	7.4	7.1	7.2	7.0	6.9	6.9	7.3	7.1	7.2
28	7.7	7.5	7.6	7.4	7.2	7.3	7.0	6.9	6.9	7.2	5.9	6.7
29	7.8	7.6	7.7	7.6	7.2	7.4	7.0	6.9	6.9	7.0	6.8	6.9
30	7.8	7.6	7.7	7.6	7.5	7.6	7.0	6.7	6.9	7.0	6.9	7.0
31	---	---	---	7.7	7.6	7.6	7.3	6.8	7.0	---	---	---
MONTH	8.1	6.8	7.3	7.8	6.5	7.0	7.9	6.7	7.2	8.0	5.9	7.2

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.1	14.9	14.4	12.6	13.6	7.6	6.1	6.8	4.9	3.3	4.3
2	15.9	13.9	14.9	14.8	12.9	13.9	7.2	5.6	6.5	6.1	4.6	5.3
3	14.3	12.6	13.4	15.1	13.3	14.3	5.7	4.9	5.3	8.8	5.6	7.0
4	14.6	12.4	13.5	15.8	14.3	15.0	4.9	4.4	4.7	11.3	8.8	10.1
5	15.4	13.6	14.5	17.3	15.7	16.5	5.1	4.4	4.6	13.4	11.3	12.4
6	16.0	15.1	15.5	18.9	17.1	18.0	6.0	4.7	5.2	13.3	8.7	11.1
7	16.9	16.0	16.4	19.4	18.5	18.9	5.3	4.2	4.8	8.7	4.9	6.4
8	16.9	16.5	16.7	18.6	15.7	17.1	4.6	3.4	4.0	4.9	3.5	4.1
9	17.9	16.9	17.3	15.7	12.3	14.3	4.6	3.3	3.9	4.3	3.5	3.8
10	18.2	17.7	17.9	12.3	10.6	11.4	7.4	4.0	5.3	3.7	2.7	3.3
11	18.0	17.7	17.9	11.5	10.1	10.8	8.4	7.1	8.0	2.7	1.4	2.0
12	18.7	17.6	18.1	14.1	11.0	12.6	7.1	5.2	5.8	3.5	1.3	2.4
13	18.7	17.5	18.2	14.2	11.6	13.4	5.2	4.2	4.8	4.6	2.4	3.6
14	18.6	17.9	18.4	11.6	9.2	10.5	5.2	4.4	4.8	4.8	3.0	4.0
15	17.9	15.6	16.8	10.2	9.2	9.8	5.5	4.3	5.0	5.9	4.0	4.9
16	15.6	14.0	14.8	11.5	9.5	10.4	5.8	3.9	4.9	5.1	3.5	4.4
17	14.9	13.3	14.2	12.8	11.1	12.1	7.0	5.7	6.3	4.8	3.1	4.0
18	15.4	14.2	14.7	13.8	12.5	13.1	5.8	4.7	5.3	6.5	4.7	5.4
19	14.6	13.1	13.9	15.0	13.8	14.7	5.7	5.0	5.4	6.8	5.4	6.1
20	14.8	13.2	14.0	14.6	12.5	13.5	5.0	2.9	3.9	5.4	3.3	4.1
21	15.6	14.0	14.8	12.5	10.9	11.7	2.9	1.6	2.2	3.4	2.0	2.7
22	16.1	14.4	15.4	11.4	10.2	10.9	3.3	1.6	2.5	3.3	1.4	2.5
23	14.4	13.0	13.6	11.4	10.2	10.9	5.5	2.6	3.8	3.6	2.1	2.9
24	13.7	12.4	12.9	11.9	10.3	11.2	7.8	5.5	6.9	4.9	2.4	3.6
25	13.6	12.4	12.9	11.1	8.6	9.8	7.3	4.6	5.8	4.9	1.7	3.4
26	14.3	13.0	13.6	8.8	7.7	8.3	4.6	3.0	3.6	1.7	0.5	0.9
27	15.7	14.3	15.1	9.9	8.2	8.8	3.5	1.9	2.8	1.1	0.5	0.8
28	15.7	14.3	15.1	11.7	9.9	10.9	3.8	2.0	2.9	1.9	0.4	1.1
29	14.4	13.4	14.0	10.3	7.2	8.8	5.2	2.5	3.7	2.3	0.3	1.5
30	13.8	12.5	13.3	7.3	6.0	6.7	7.5	5.2	6.4	3.7	1.3	2.5
31	14.1	12.6	13.4	---	---	---	6.2	4.5	5.2	3.7	1.8	2.8
MONTH	18.7	12.4	15.2	19.4	6.0	12.4	8.4	1.6	4.9	13.4	0.3	4.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.1	1.2	2.3	7.6	3.6	5.4	13.0	11.1	12.1	18.3	16.8	17.5
2	2.9	1.2	2.1	10.6	6.4	8.4	13.2	11.4	12.1	20.0	17.9	18.9
3	4.9	2.6	3.7	12.8	9.6	11.2	14.5	10.4	12.3	19.4	16.7	18.2
4	4.8	3.0	4.0	14.6	11.3	12.9	15.2	11.8	13.2	16.7	14.4	15.4
5	4.1	3.2	3.8	16.0	13.3	14.6	14.5	10.7	12.5	16.5	14.4	15.4
6	5.9	3.9	4.5	16.8	15.2	15.8	14.8	10.3	12.5	---	---	---
7	7.6	5.9	6.6	16.0	13.4	14.7	16.1	11.3	13.7	19.3	16.7	18.1
8	6.3	4.3	5.3	13.8	11.2	12.3	16.2	13.7	15.0	20.3	18.0	19.3
9	5.1	3.6	4.2	11.2	8.8	9.4	18.4	13.8	16.0	21.3	19.3	20.4
10	5.8	3.8	4.8	10.2	8.0	8.9	18.7	14.5	16.5	21.7	19.6	20.6
11	6.8	5.3	6.1	10.1	6.2	8.3	17.9	15.8	16.9	21.2	19.5	20.3
12	6.7	5.4	6.1	11.8	7.9	9.9	16.6	13.7	14.8	20.9	19.8	20.3
13	7.5	4.6	6.1	11.6	8.4	10.0	15.2	12.9	13.9	21.1	19.6	20.4
14	7.6	6.7	7.2	12.4	8.9	10.6	14.5	11.8	13.0	21.6	19.7	20.6
15	7.6	6.4	7.3	12.7	11.6	12.2	15.1	10.1	12.4	21.5	19.8	20.7
16	6.5	5.0	5.8	14.7	12.4	13.4	16.8	12.0	14.2	21.5	19.8	20.6
17	5.4	4.1	4.5	14.1	12.2	13.3	18.6	13.6	15.9	21.8	20.0	20.9
18	6.0	3.3	4.7	12.2	10.6	11.2	19.9	15.5	17.6	22.0	20.5	21.2
19	6.8	3.8	5.5	14.0	9.9	11.8	20.9	17.2	18.9	22.4	20.8	21.5
20	9.0	5.5	7.3	13.5	10.7	12.2	21.5	18.3	19.8	23.1	21.0	22.0
21	12.0	9.0	10.4	15.8	12.7	13.8	20.5	18.2	19.5	23.4	21.7	22.5
22	10.4	7.8	9.1	12.8	9.7	11.6	20.7	17.6	19.3	24.6	22.1	23.2
23	8.5	6.7	7.4	11.3	7.9	9.6	21.3	18.2	19.9	25.2	22.6	23.6
24	9.2	7.2	8.1	12.3	7.8	10.0	21.8	19.0	20.6	24.5	22.4	23.3
25	9.5	8.0	8.8	14.6	9.7	12.1	21.8	20.0	21.0	25.1	22.4	23.6
26	8.2	0.7	5.1	16.6	11.9	14.3	21.2	19.2	20.1	25.2	23.0	23.8
27	1.9	0.2	1.0	17.5	14.0	15.9	19.2	17.2	18.0	24.8	22.4	23.3
28	4.5	0.2	2.2	19.0	15.8	17.3	17.3	14.7	16.0	24.9	22.6	23.4
29	6.0	2.1	3.8	18.3	15.0	16.7	16.6	14.3	15.7	24.5	21.9	22.9
30	---	---	---	16.4	12.9	14.2	17.2	15.3	16.3	24.5	22.2	23.1
31	---	---	---	13.1	12.0	12.5	---	---	---	24.4	22.4	23.2
MONTH	12.0	0.2	5.4	19.0	3.6	12.1	21.8	10.1	16.0	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.1	21.4	22.6	23.8	22.2	22.9	25.4	24.0	24.5	23.5	22.7	23.0
2	24.0	20.4	22.0	23.7	22.7	23.2	25.9	24.3	24.8	23.5	22.1	22.9
3	24.5	19.7	21.9	24.1	22.9	23.3	25.7	24.3	24.9	22.9	21.3	22.0
4	23.3	21.4	22.1	25.2	23.0	23.9	25.9	23.8	24.8	22.4	20.9	21.5
5	23.7	19.8	21.6	25.7	23.1	24.3	26.1	23.7	24.7	22.7	20.9	21.7
6	21.9	20.0	20.9	25.1	23.1	24.2	24.0	22.2	23.1	23.0	21.5	22.1
7	23.4	20.1	21.5	26.2	23.8	24.9	22.2	19.9	21.0	23.3	22.1	22.4
8	24.2	21.0	22.2	26.4	23.8	25.0	22.0	19.3	20.5	23.7	22.7	23.2
9	22.6	21.2	21.9	27.1	23.9	25.3	22.2	19.2	20.6	23.4	22.6	23.0
10	23.2	21.4	22.3	26.2	24.2	25.2	22.6	20.0	21.2	23.0	21.7	22.2
11	25.4	22.3	23.7	27.3	24.0	25.3	23.4	20.4	21.9	22.2	21.3	21.8
12	25.6	23.0	23.9	25.4	23.4	24.4	22.0	21.0	21.5	21.6	20.5	21.1
13	23.3	21.9	22.5	26.0	24.1	25.0	22.4	21.4	21.7	21.2	20.2	20.8
14	23.2	21.7	22.3	26.7	24.5	25.4	22.4	19.6	20.9	21.4	20.6	21.0
15	23.3	22.4	22.8	26.1	23.5	24.8	20.9	20.3	20.6	20.8	20.2	20.5
16	24.3	22.8	23.5	25.2	21.8	23.3	21.8	20.4	21.0	21.4	20.3	20.7
17	25.4	23.6	24.5	23.7	21.4	22.5	22.1	20.7	21.4	22.9	21.4	22.1
18	27.0	24.3	25.4	23.1	22.2	22.6	22.9	21.4	22.1	22.1	20.1	20.9
19	27.0	24.2	25.3	23.7	21.9	22.9	23.6	21.8	22.6	20.1	18.0	19.0
20	25.7	23.4	24.3	24.1	22.2	23.2	24.0	22.1	23.1	18.0	16.6	17.2
21	23.5	22.3	22.9	25.1	22.1	23.5	24.4	22.8	23.5	17.2	15.8	16.6
22	24.3	22.1	23.0	24.7	22.4	23.4	23.5	22.7	23.1	17.7	15.8	16.8
23	24.4	22.8	23.6	26.0	22.9	24.2	24.0	22.2	22.9	18.6	16.9	17.8
24	24.5	23.3	24.0	26.4	23.3	24.6	23.9	22.0	22.7	19.2	17.8	18.5
25	24.2	23.2	23.6	25.9	23.3	24.3	23.3	21.3	22.2	19.2	17.8	18.4
26	23.8	22.9	23.3	25.8	23.1	24.2	23.4	21.0	22.0	19.2	17.7	18.4
27	23.3	22.5	22.8	25.2	23.4	24.0	23.8	21.2	22.2	20.2	18.8	19.2
28	23.0	22.0	22.5	24.5	23.3	23.9	24.1	21.7	22.7	22.0	20.2	21.6
29	23.7	21.7	22.8	24.7	23.6	24.0	22.5	21.9	22.2	21.4	19.9	20.5
30	23.2	22.3	22.8	25.0	23.5	24.2	23.5	22.0	22.7	20.4	19.2	19.8
31	---	---	---	25.0	23.7	24.2	23.2	22.8	23.0	---	---	---
MONTH	27.0	19.7	22.9	27.3	21.4	24.1	26.1	19.2	22.5	23.7	15.8	20.6

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.5	6.8	6.5	6.1	6.3	9.4	8.6	9.0	10.7	9.6	10.1
2	7.3	6.6	6.9	6.4	6.0	6.2	9.1	8.6	8.9	10.4	9.8	10.0
3	7.7	7.0	7.3	6.4	6.0	6.1	9.5	8.8	9.2	10.0	9.1	9.5
4	8.0	7.5	7.7	6.2	5.7	5.9	9.7	9.2	9.6	9.1	8.2	8.6
5	8.0	7.1	7.5	5.8	5.0	5.4	10.0	9.6	9.8	8.3	7.0	7.5
6	7.3	6.8	7.0	5.2	4.4	4.8	10.0	9.4	9.7	8.5	6.6	7.6
7	7.2	6.4	6.7	4.8	4.1	4.4	9.9	9.6	9.7	10.3	8.2	9.2
8	6.8	6.4	6.6	4.8	4.1	4.5	10.4	9.9	10.1	11.5	10.0	10.7
9	7.0	6.3	6.7	6.1	4.8	5.4	10.6	10.0	10.3	11.4	10.5	11.0
10	6.4	5.8	6.1	7.2	6.1	6.6	10.2	8.8	9.7	12.1	10.8	11.5
11	7.3	5.8	6.5	7.5	7.1	7.3	8.8	8.3	8.4	12.7	11.6	12.2
12	6.9	5.9	6.4	7.5	6.7	7.2	9.3	8.4	9.0	12.7	11.9	12.3
13	6.1	5.6	5.9	6.7	5.7	6.2	9.8	9.1	9.5	12.2	11.5	11.9
14	5.7	5.2	5.5	6.9	5.9	6.4	10.1	9.6	9.9	12.0	11.0	11.6
15	5.8	5.2	5.5	7.1	6.6	6.9	10.2	9.7	10	11.8	10.7	11.3
16	6.4	5.8	6.2	7.4	6.9	7.1	10.4	9.7	10.0	12.2	10.6	11.5
17	6.7	6.3	6.5	7.0	6.2	6.6	9.8	9.2	9.4	12.6	11.3	12.0
18	6.7	6.3	6.5	6.3	5.7	6.0	10.3	9.4	9.8	12.2	10.9	11.4
19	7.1	6.4	6.8	6.7	5.2	5.7	10.1	9.3	9.6	11.9	10.1	11.1
20	7.3	6.8	7.1	7.1	6.6	7.0	10.5	9.4	10	12.7	10.8	11.8
21	7.3	6.5	6.9	7.6	6.5	7.0	11.3	10.3	10.8	13.2	12.0	12.7
22	6.7	6.1	6.4	8.3	7.5	7.9	11.1	10.5	10.8	13.2	11.8	12.6
23	6.9	6.2	6.5	8.0	7.6	7.8	10.6	9.8	10.3	12.5	11.4	12.0
24	7.3	6.7	6.9	7.6	6.9	7.1	9.8	8.5	9.0	12.0	10.9	11.5
25	7.6	6.9	7.2	7.6	6.6	7.1	9.5	8.3	9.0	11.5	9.8	10.7
26	7.1	6.4	6.8	8.3	7.6	8.0	10.5	9.3	9.9	12.1	10.4	11.3
27	6.8	6.0	6.4	8.4	8.0	8.2	10.8	10.2	10.5	12.2	11.0	11.7
28	6.2	5.7	6.0	8.1	6.9	7.4	10.8	10.3	10.6	12.1	10.8	11.6
29	7.9	6.2	7.1	8.3	6.9	7.5	10.6	10.1	10.4	11.9	10.8	11.4
30	6.8	6.3	6.6	9.1	8.3	8.8	10.2	9.1	9.5	11.6	10.6	11.2
31	6.6	6.2	6.4	---	---	---	9.9	8.8	9.4	11.3	10.1	10.8
MONTH	8.0	5.2	6.6	9.1	4.1	6.6	11.3	8.3	9.7	13.2	6.6	11.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.8	10.3	11.1	11.3	10.1	10.9	10.1	8.5	9.2	7.0	5.9	6.3
2	12.0	10.8	11.5	10.5	9.2	10.0	10.0	8.2	9.0	6.7	5.7	6.1
3	12.0	9.7	10.6	9.9	8.7	9.4	9.9	8.3	9.0	6.7	5.7	6.2
4	11.0	9.6	10.3	9.7	8.4	9.0	9.5	7.8	8.5	7.5	6.3	6.9
5	11.0	9.9	10.4	9.6	8.1	8.8	9.8	8.0	8.7	7.7	6.8	7.2
6	10.6	9.6	10.0	9.1	7.8	8.3	10.2	8.1	9.0	---	---	---
7	9.9	9.4	9.7	9.4	7.8	8.5	10.1	7.8	8.7	7.3	6.2	6.7
8	10.6	9.6	10.2	9.8	7.9	8.8	9.4	7.1	8.1	7.0	5.8	6.3
9	10.8	10.1	10.5	11.0	8.7	10	9.5	6.8	7.8	6.7	5.5	6.0
10	10.6	9.7	10.3	11.5	9.7	10.4	9.2	6.6	7.5	6.4	5.3	5.7
11	10.3	9.5	9.9	11.9	10.1	10.8	8.4	6.3	7.1	6.2	5.2	5.6
12	10.4	9.4	9.9	11.5	9.6	10.4	7.2	6.2	6.7	6.4	5.2	5.5
13	10.5	9.4	10.1	12.0	9.3	10.4	8.2	6.8	7.4	6.4	5.2	5.7
14	9.9	9.4	9.6	12.0	9.3	10.4	8.4	7.6	8.0	6.4	5.4	5.7
15	10.1	9.6	9.8	10.7	8.5	9.5	9.2	7.9	8.5	6.3	5.3	5.7
16	10.8	10.0	10.4	10.7	8.1	9.1	9.0	7.6	8.1	6.2	5.3	5.6
17	11.1	10.3	10.7	11.2	8.0	9.4	8.6	6.8	7.7	6.2	5.2	5.5
18	11.1	9.8	10.6	11.2	8.4	9.5	8.2	6.3	7.2	6.1	5.3	5.6
19	10.6	9.6	10.1	11.8	8.8	10.0	7.5	6.1	6.7	6.7	5.5	6.0
20	10.0	8.8	9.6	11.7	8.5	9.9	7.1	5.3	6.3	6.6	5.6	6.0
21	9.2	8.2	8.7	10.7	7.9	9.1	6.8	5.2	5.8	6.4	5.3	5.8
22	9.8	8.2	9.0	11.4	8.0	9.5	6.9	5.1	5.8	6.3	5.2	5.6
23	10.2	8.8	9.5	11.9	8.9	10.2	6.6	4.8	5.6	6.5	5.1	5.6
24	10.1	8.8	9.4	12.0	9.1	10.3	6.5	4.6	5.4	5.8	4.8	5.2
25	10.1	8.5	9.2	11.5	8.4	9.8	6.2	4.5	5.2	5.9	4.8	5.2
26	10.9	8.8	9.7	10.9	7.9	9.1	5.5	4.2	4.8	6.1	4.8	5.3
27	12.4	10.9	11.7	10.4	7.2	8.6	6.2	4.4	5.3	6.1	4.9	5.4
28	12.3	10.9	11.7	9.7	6.8	8.0	7.6	5.5	6.4	6.4	5.1	5.5
29	11.8	10.9	11.3	9.8	6.8	8.2	7.6	6.1	6.7	6.4	5.2	5.6
30	---	---	---	8.7	7.3	8.0	7.3	6.2	6.7	6.6	5.2	5.7
31	---	---	---	9.7	7.9	8.9	---	---	---	7.0	5.2	5.9
MONTH	12.4	8.2	10.2	12.0	6.8	9.5	10.2	4.2	7.2	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	5.2	5.9	6.7	6.0	6.3	5.5	4.9	5.1	5.5	5.0	5.2
2	6.8	5.3	5.9	6.6	5.7	6.0	5.4	4.6	5.0	5.6	4.8	5.1
3	7.4	5.4	6.2	6.6	5.6	5.9	5.4	4.9	5.1	5.3	4.8	5.0
4	7.1	5.3	6.0	6.4	5.3	5.7	6.1	4.9	5.3	5.3	4.8	5.0
5	7.3	5.2	5.9	6.2	5.2	5.6	6.2	4.6	5.3	6.0	5.0	5.5
6	7.2	5.2	5.9	5.6	5.0	5.3	6.2	4.1	5.5	5.9	4.7	5.2
7	7.8	5.0	6.3	5.6	4.8	5.2	5.8	5.3	5.5	6.8	4.5	5.1
8	7.9	5.0	6.1	5.7	4.8	5.2	5.7	5.2	5.4	6.8	5.6	6.1
9	6.1	5.2	5.6	5.9	4.9	5.3	5.9	5.1	5.4	6.2	5.2	5.7
10	6.6	5.4	6.0	6.1	4.9	5.4	5.9	5.1	5.5	6.4	5.2	6.1
11	6.6	5.1	5.8	7.0	5.5	6.1	6.9	5.3	6.0	6.8	6.1	6.5
12	6.5	4.9	5.4	6.4	5.2	5.8	6.2	4.8	5.4	6.8	6.3	6.6
13	6.1	5.0	5.4	6.7	5.8	6.2	6.3	5.1	6.0	7.0	6.0	6.6
14	6.4	5.1	5.9	6.7	5.5	6.1	8.0	6.2	7.4	6.4	5.7	6.1
15	6.0	5.3	5.6	6.6	5.5	5.9	7.6	7.2	7.4	6.6	5.9	6.3
16	6.0	5.3	5.6	7.4	5.6	6.3	7.2	6.3	6.8	6.5	6.2	6.4
17	6.2	5.3	5.6	7.4	6.0	6.5	6.6	6.1	6.4	6.2	5.3	5.9
18	6.1	4.8	5.3	7.1	5.4	6.6	6.2	5.8	6.1	6.4	5.6	6.2
19	6.0	4.8	5.1	6.8	6.2	6.6	6.0	5.5	5.8	6.5	6.2	6.4
20	6.2	4.8	5.3	6.8	6.1	6.4	6.0	5.3	5.6	6.8	6.4	6.6
21	6.4	4.9	5.4	6.7	5.7	6.1	5.9	5.1	5.5	7.6	6.4	7.0
22	6.6	5.1	5.7	6.2	5.0	5.6	5.4	4.7	5.0	7.6	7.2	7.4
23	6.3	5.5	5.9	---	---	---	5.3	4.7	5.0	7.5	7.0	7.2
24	6.2	5.6	6.0	6.6	5.2	5.7	5.6	5.0	5.2	7.4	6.9	7.1
25	6.7	5.8	6.3	6.5	5.0	5.6	5.9	5.1	5.5	7.4	6.8	7.1
26	6.5	5.9	6.2	6.6	4.7	5.5	6.1	5.4	5.6	7.4	6.9	7.1
27	6.2	5.7	6.0	6.1	4.7	5.2	6.2	5.5	5.7	7.1	6.6	6.9
28	6.0	5.5	5.8	6.0	4.8	5.4	6.2	5.5	5.8	7.5	6.4	7.1
29	6.0	5.4	5.7	6.0	4.9	5.5	5.8	5.4	5.6	7.8	7.0	7.5
30	6.1	5.3	5.7	6.0	5.2	5.7	6.0	5.0	5.6	7.4	6.6	6.9
31	---	---	---	5.5	5.1	5.3	5.7	5.1	5.4	---	---	---
MONTH	7.9	4.8	5.8	---	---	---	8.0	4.1	5.7	7.8	4.5	6.3

PEE DEE RIVER BASIN

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	73	66	68	64	59	62	80	72	76	85	74	79
2	75	66	69	64	58	61	77	71	73	84	77	81
3	77	68	72	65	58	61	76	71	74	86	75	80
4	80	72	75	64	58	60	77	73	76	84	72	77
5	81	72	76	60	53	57	80	75	77	77	68	72
6	75	69	72	57	48	51	80	75	78	77	62	70
7	76	67	70	53	45	48	80	75	77	84	68	76
8	71	67	69	51	44	48	82	76	79	90	77	84
9	75	67	71	58	49	54	84	78	80	88	81	85
10	69	62	66	66	58	62	80	74	78	93	82	88
11	79	62	70	70	64	67	75	70	72	95	84	90
12	74	64	70	71	65	69	76	70	73	97	86	92
13	66	61	63	66	54	61	78	72	75	96	86	92
14	62	56	60	64	55	59	80	76	78	95	84	90
15	60	55	58	64	58	62	82	78	80	96	83	90
16	65	58	62	69	62	65	84	76	80	98	82	91
17	68	62	65	65	60	62	80	76	77	99	86	93
18	68	63	65	61	56	58	84	76	79	97	86	92
19	70	63	67	67	53	57	82	74	78	99	82	91
20	74	67	70	70	65	68	82	73	77	100	83	92
21	74	66	70	72	61	66	84	76	80	101	88	95
22	69	61	65	77	69	73	85	78	81	99	86	94
23	68	61	64	75	70	72	83	76	79	95	84	91
24	72	64	67	70	64	66	79	72	75	95	81	88
25	74	66	69	67	59	64	78	68	73	91	76	82
26	69	64	67	73	65	69	81	71	76	86	75	81
27	69	61	65	74	70	72	83	75	79	88	78	83
28	62	58	60	73	64	68	84	76	80	87	76	84
29	77	62	70	70	61	66	84	75	80	88	76	83
30	67	62	64	77	70	73	82	75	78	89	77	84
31	65	60	62	---	---	---	81	70	75	86	74	82
MONTH	81	55	67	77	44	63	85	68	77	101	62	86
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	88	74	83	91	85	88	98	79	87	75	62	67
2	91	78	85	90	84	87	97	77	85	75	63	67
3	91	76	82	93	83	87	99	78	86	73	63	67
4	87	74	80	96	82	87	96	73	83	78	64	70
5	86	75	80	98	82	88	98	74	84	80	68	73
6	84	76	79	96	79	85	103	75	86	---	---	---
7	83	78	81	97	78	86	104	73	86	81	67	72
8	86	79	82	95	76	84	98	70	82	79	64	69
9	84	80	82	98	80	89	103	67	81	77	61	67
10	85	79	81	104	84	92	100	66	79	74	60	65
11	86	77	81	107	84	94	90	65	75	71	58	63
12	84	78	81	108	83	94	72	63	67	73	58	63
13	87	80	83	112	81	94	83	66	73	73	58	65
14	84	79	81	114	82	96	81	73	77	74	61	65
15	84	81	83	103	80	90	92	74	81	73	60	64
16	89	82	85	107	77	89	93	73	81	72	59	64
17	88	82	85	111	77	91	92	72	79	72	59	63
18	88	79	84	105	77	88	91	67	77	71	60	64
19	89	77	82	116	79	95	85	65	73	79	63	69
20	88	77	81	113	78	94	81	60	70	79	66	70
21	87	75	79	110	76	90	77	56	65	77	63	68
22	89	73	80	110	73	89	78	56	64	77	62	67
23	87	75	80	111	78	91	76	54	62	80	61	68
24	89	76	81	113	79	93	76	52	61	71	57	63
25	90	73	81	114	76	93	72	51	59	73	56	63
26	82	74	77	113	75	91	62	47	54	76	57	64
27	91	77	84	110	71	89	67	47	58	75	58	64
28	94	83	87	106	70	85	78	58	66	78	60	66
29	94	83	87	106	70	86	79	61	69	78	61	66
30	---	---	---	86	73	80	77	63	69	81	61	68
31	---	---	---	94	76	85	---	---	---	85	62	70
MONTH	94	73	82	116	70	89	104	47	74	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	83	61	70	81	71	75	68	59	62	66	59	61
2	82	60	68	80	68	72	68	56	61	67	57	61
3	90	64	73	80	67	71	67	60	63	63	55	58
4	85	61	70	79	64	70	77	60	66	62	55	58
5	88	60	69	78	62	68	78	56	65	71	57	64
6	84	59	67	69	60	64	74	50	66	70	55	61
7	93	58	73	70	60	64	68	60	63	80	53	61
8	96	57	71	72	58	64	67	58	61	80	66	73
9	72	60	65	76	61	65	69	57	61	74	62	68
10	79	62	70	77	60	67	70	58	63	76	62	71
11	82	62	70	89	67	75	82	62	70	79	71	75
12	81	58	66	78	63	71	72	56	63	77	72	75
13	72	59	63	84	72	76	73	59	69	80	69	75
14	76	59	69	84	69	75	89	73	85	74	65	70
15	72	62	67	83	67	73	87	82	84	75	67	72
16	73	63	67	92	65	76	82	73	78	74	71	72
17	77	64	69	89	69	77	77	71	74	72	63	69
18	78	60	66	83	64	78	74	68	71	73	65	70
19	77	58	64	82	74	78	72	65	68	72	68	70
20	78	58	64	83	72	76	73	62	67	73	68	70
21	77	58	64	82	68	73	72	61	66	80	67	73
22	80	60	68	76	60	68	65	56	59	81	76	78
23	76	65	71	---	---	---	64	55	59	81	75	77
24	76	68	73	84	62	70	68	58	62	82	74	77
25	80	70	75	81	61	68	71	59	64	82	74	77
26	77	71	74	83	57	66	73	62	66	82	74	77
27	74	67	71	76	57	63	75	63	67	79	73	76
28	71	65	68	73	58	65	75	64	68	88	73	83
29	72	64	67	73	60	67	68	63	66	88	79	84
30	73	63	68	73	64	69	71	58	66	83	74	77
31	---	---	---	68	62	64	68	61	64	---	---	---
MONTH	96	57	69	---	---	---	89	50	67	88	53	71

02124742 ROCKY RIVER NEAR STANFIELD, NC

LOCATION.--Lat 35°10'10", long 80°28'23", Union County, Hydrologic Unit 03040105, on right bank at bridge on Secondary Road 1606, 1.3 mi upstream from Crooked Creek, and 5.0 mi southwest of Stanfield

DRAINAGE AREA.--628 mi².

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 440 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. WSACC Rocky River waste water treatment plant discharged an average of 18.2 ft³/s as treated effluent 16.5 mi upstream from station. Minimum discharge for period of record and current water year affected by regulation. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing discharge values on the daily values table are days when the flow exceeded the rating. Minimum discharge for current water year also occurred Sept. 5-7.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	203	183	229	279	---	751	205	127	531	198	203
2	162	187	173	225	244	---	752	311	126	514	221	120
3	159	184	267	224	495	1,060	491	693	98	306	279	95
4	152	179	189	227	724	707	410	493	87	255	182	84
5	145	182	195	233	451	596	376	320	96	350	137	77
6	145	207	237	533	---	534	326	253	98	310	130	74
7	144	221	207	392	---	499	297	227	88	251	120	---
8	153	217	195	288	---	455	298	209	86	177	88	---
9	227	211	187	257	753	426	294	197	146	136	79	---
10	256	196	208	273	595	380	283	189	163	e90	76	---
11	304	418	797	260	513	368	272	277	139	e85	74	515
12	415	202	478	242	795	419	288	231	93	e200	83	355
13	239	177	296	240	1,410	340	498	301	85	e250	---	277
14	280	168	---	238	796	316	1,260	233	87	142	---	235
15	250	171	1,120	238	766	316	698	201	---	109	---	219
16	280	165	581	243	984	347	474	182	505	90	381	387
17	180	169	456	218	758	384	389	171	293	80	231	---
18	154	173	574	225	594	361	344	165	179	---	182	---
19	149	189	429	284	521	351	315	167	143	500	259	508
20	148	355	364	266	470	357	298	167	200	221	170	294
21	146	280	320	235	433	338	281	144	286	153	131	223
22	144	216	280	224	409	348	265	134	818	119	116	187
23	139	195	270	231	366	309	252	129	306	105	112	165
24	144	186	275	233	356	286	243	204	317	95	106	151
25	137	184	281	227	357	279	232	165	305	86	96	140
26	138	187	257	237	420	279	225	129	---	79	89	131
27	156	178	244	258	423	282	240	116	828	360	84	153
28	181	177	238	254	632	283	258	113	325	1,140	83	---
29	427	182	236	297	1,160	283	221	104	223	559	81	---
30	419	211	239	299	---	279	206	101	185	924	170	---
31	253	---	245	300	---	353	---	94	---	348	247	---
TOTAL	6,401	6,170	10,021	8,130	15,704	11,535	11,537	6,625	6,432	8,565	4,205	4,593
MEAN	206	206	334	262	604	398	385	214	230	286	150	219
MAX	427	418	1,120	533	1,410	1,060	1,260	693	828	1,140	381	515
MIN	137	165	173	218	244	279	206	94	85	79	74	74
CFSM	0.33	0.33	0.53	0.42	0.96	0.63	0.61	0.34	0.37	0.45	0.24	0.35
IN.	0.38	0.37	0.59	0.48	0.93	0.68	0.68	0.39	0.38	0.51	0.25	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	211	299	493	343	588	1,195	993	751	659	357	242	228
MAX	490	793	1,402	601	1,176	2,972	3,532	3,079	2,619	1,136	712	314
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	70.6	79.6	112	150	226	398	246	133	78.8	96.4	93.6	147
(WY)	(2001)	(2002)	(2001)	(2001)	(2001)	(2004)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

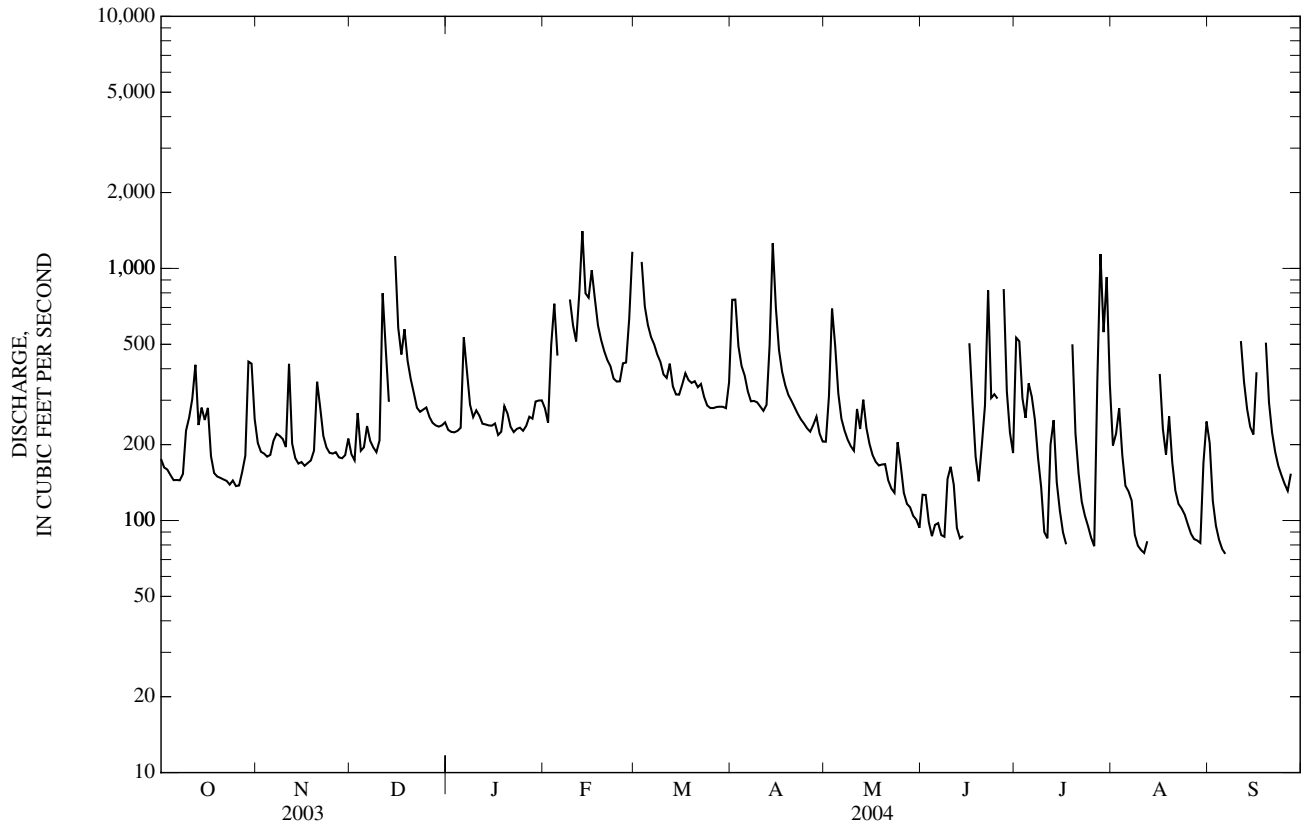
WATER YEARS 2000 - 2004

LOWEST DAILY MEAN	132	Sep 22	74	Aug 11	35	Sep 18, 2000
MAXIMUM PEAK STAGE			13.56	Sep 29	14.50	Apr 11, 2003
INSTANTANEOUS LOW FLOW			68*	Aug 12	29*	Aug 12, 2002

* See REMARKS.

e Estimated.

02124742 ROCKY RIVER NEAR STANFIELD, NC—Continued



02125000 BIG BEAR CREEK NEAR RICHFIELD, NC

LOCATION.--Lat 35°20'05", long 80°20'08", Stanly County, Hydrologic Unit 03040105, on left bank 300 ft downstream of Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 mi southwest of Richfield.

DRAINAGE AREA.--55.6 mi².

PERIOD OF RECORD.--May 1954 to current year.

REVISED RECORDS.--WSP 1503: 1955, 1956(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 426.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurs several days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1921 reached a stage of about 19 ft, information from State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.5	3.2	6.4	11	206	25	4.9	0.23	2.1	3.1	2.4
2	2.8	3.6	3.0	6.1	9.4	128	22	29	0.16	1.7	4.9	1.4
3	2.3	3.1	2.8	6.1	84	68	16	17	0.10	1.3	5.6	0.93
4	2.2	2.9	2.9	6.3	50	47	13	11	0.21	1.2	2.8	0.64
5	1.9	3.0	3.6	6.7	28	37	11	8.1	0.33	0.96	1.6	0.47
6	1.8	2.9	3.6	27	119	31	10	6.2	0.28	0.93	0.84	0.32
7	1.9	4.9	3.6	14	249	27	9.6	5.0	0.16	0.63	0.58	7.3
8	2.2	4.0	3.4	11	66	22	9.2	4.1	1.2	0.37	0.46	2,170
9	3.2	3.5	3.2	10	39	20	8.8	3.7	4.2	0.21	0.36	146
10	2.8	3.4	7.6	10	31	18	8.2	3.1	2.3	0.07	0.25	40
11	5.3	3.4	30	9.2	26	16	7.8	2.6	1.2	0.00	0.18	22
12	4.6	3.2	12	8.5	120	15	9.3	2.3	0.57	0.00	0.30	15
13	4.2	3.1	8.5	8.5	106	14	43	2.0	0.34	0.00	0.57	12
14	3.6	2.8	64	8.3	56	13	67	1.9	0.54	0.00	41	9.6
15	3.0	2.8	43	8.1	90	14	27	1.9	8.0	0.00	20	8.3
16	2.7	2.8	22	7.6	164	16	17	1.7	13	0.00	9.3	7.8
17	2.6	2.8	21	7.1	73	17	14	1.5	8.0	0.00	5.4	e90
18	2.6	2.8	24	8.3	50	15	11	1.3	4.1	1.2	22	e150
19	2.4	4.3	17	9.7	38	15	9.8	1.1	2.4	5.6	47	e30
20	2.3	7.7	13	8.4	31	14	9.0	0.99	1.3	2.4	10	e18
21	2.2	6.5	11	7.5	27	17	8.0	0.86	1.4	0.93	5.2	e13
22	2.1	5.4	9.5	7.3	22	30	7.0	0.75	2.0	0.41	3.0	e10
23	1.8	4.6	9.0	7.2	19	12	6.4	0.69	1.7	0.15	1.9	e8.0
24	1.8	4.1	9.6	6.9	19	10	5.9	0.60	1.3	0.03	1.4	e7.0
25	1.7	3.8	10	7.2	18	9.8	5.5	0.49	1.3	0.00	1.1	e6.0
26	1.9	3.5	8.7	6.8	17	9.6	5.1	0.41	9.3	0.00	0.80	e6.0
27	2.1	3.6	7.9	6.3	23	9.5	5.5	0.50	15	98	0.57	e50
28	2.6	3.6	7.5	6.6	34	9.4	5.4	0.39	6.5	20	0.42	4,260
29	7.9	3.5	7.1	8.0	147	8.9	4.8	0.27	4.0	9.7	0.56	259
30	8.4	3.3	7.1	13	---	9.1	4.3	0.23	2.8	10	1.5	103
31	5.8	---	6.8	14	---	13	---	0.26	---	5.5	1.8	---
TOTAL	96.0	113.4	385.6	278.1	1,766.4	891.3	405.6	114.84	93.92	163.39	194.49	7,454.16
MEAN	3.10	3.78	12.4	8.97	60.9	28.8	13.5	3.70	3.13	5.27	6.27	248
MAX	8.4	7.7	64	27	249	206	67	29	15	98	47	4,260
MIN	1.7	2.8	2.8	6.1	9.4	8.9	4.3	0.23	0.10	0.00	0.18	0.32
CFSM	0.06	0.07	0.22	0.16	1.10	0.52	0.24	0.07	0.06	0.09	0.11	4.47
IN.	0.06	0.08	0.26	0.19	1.18	0.60	0.27	0.08	0.06	0.11	0.13	4.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

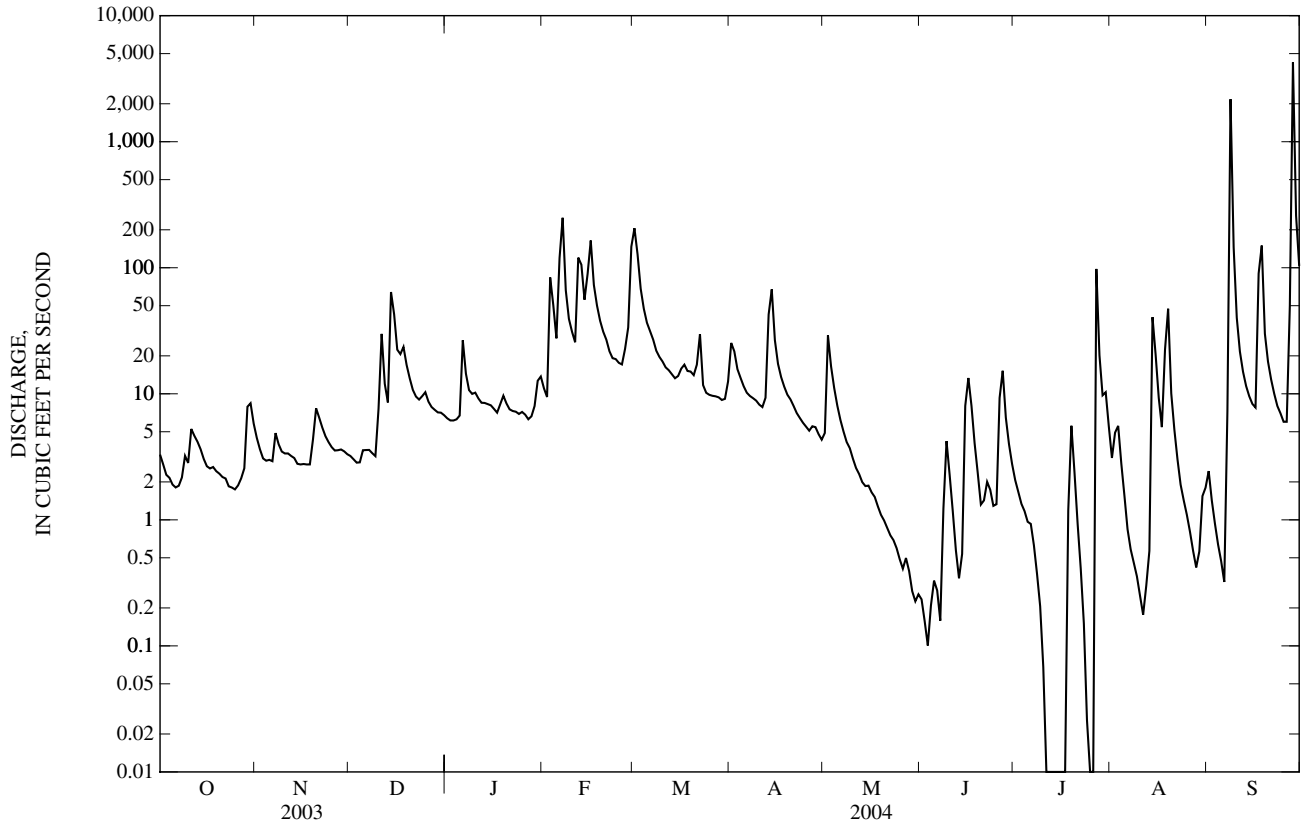
MEAN	41.6	32.4	55.5	106	130	123	75.1	39.2	32.2	32.3	23.5	24.0
MAX	355	212	186	357	284	345	335	240	296	220	223	248
(WY)	(1991)	(1986)	(1977)	(1998)	(1984)	(1993)	(2003)	(2003)	(2003)	(1984)	(1967)	(2004)
MIN	0.01	0.34	2.12	4.38	16.2	13.2	6.87	1.32	0.24	0.01	0.00	0.00
(WY)	(1962)	(1962)	(1966)	(1981)	(1986)	(1981)	(1967)	(1986)	(1986)	(2002)	(1980)	(1993)

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	49,554.4		11,957.20		59.4	
ANNUAL MEAN	136		32.7		174	
HIGHEST ANNUAL MEAN					18.2	2003
LOWEST ANNUAL MEAN					18.2	2001
HIGHEST DAILY MEAN	4,040	Apr 10	4,260	Sep 28	5,240	Oct 11, 1990
LOWEST DAILY MEAN	1.7	Sep 21	0.00	Jul 11	0.00	Sep 12, 1954
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 21	0.00	Jul 11	0.00	Sep 12, 1954
MAXIMUM PEAK FLOW			9,640	Sep 28	11,400	Jul 23, 1997
MAXIMUM PEAK STAGE			15.14	Sep 28	16.54	Jul 23, 1997
INSTANTANEOUS LOW FLOW			0.00*	Jul 10	0.00*	Sep 12, 1954
ANNUAL RUNOFF (CFSM)	2.44		0.588		1.07	
ANNUAL RUNOFF (INCHES)	33.16		8.00		14.51	
10 PERCENT EXCEEDS	252		35		120	
50 PERCENT EXCEEDS	30		6.1		11	
90 PERCENT EXCEEDS	2.9		0.48		0.40	

* See REMARKS.

e Estimated.



02126000 ROCKY RIVER NEAR NORWOOD, NC

LOCATION.--Lat 35°08'56", long 80°10'33", Stanly County, Hydrologic Unit 03040105, on left bank 1,000 ft downstream of Lanes Creek, 1.5 mi upstream from bridge on Secondary Road 1935, 6 mi southwest of Norwood, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--1,372 mi².

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 852: 1937. WSP 1052: 1936(M). WSP 1503: 1935, 1945. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 212.91 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1908 reached a stage of 35 ft, from information by local residents; discharge, 67,600 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	307	237	306	378	5,210	664	246	106	267	290	812
2	221	254	212	287	337	5,190	1,070	346	124	633	208	454
3	199	229	201	288	501	2,520	698	842	142	393	246	319
4	195	223	294	286	1,220	1,500	557	881	117	294	317	208
5	184	219	258	294	775	1,160	477	525	113	296	206	163
6	175	224	292	397	1,060	989	435	374	111	337	159	145
7	180	248	293	603	9,080	876	389	306	120	308	152	642
8	182	262	252	405	3,430	761	370	268	107	236	143	39,700
9	210	245	236	345	1,400	693	368	240	152	179	109	25,700
10	333	232	260	332	1,010	632	349	218	212	144	96	3,480
11	405	293	1,120	336	840	583	334	217	205	135	93	1,540
12	629	368	959	312	1,560	571	340	281	172	304	94	1,100
13	410	226	555	304	3,600	570	428	269	121	408	679	874
14	308	200	1,160	305	1,740	486	1,270	298	108	284	5,640	749
15	347	192	2,490	297	2,440	472	1,020	244	884	180	4,600	671
16	314	192	1,140	291	3,620	548	656	211	912	142	1,380	723
17	320	185	774	289	1,940	605	514	190	433	116	566	3,840
18	222	192	801	281	1,290	581	440	179	272	526	350	6,130
19	195	216	724	e305	1,030	543	395	172	182	995	334	2,050
20	188	379	553	e355	893	526	366	467	149	335	335	1,220
21	186	485	477	e320	793	509	346	218	194	215	220	887
22	183	333	417	e295	744	504	328	171	719	164	185	748
23	179	265	380	e280	629	480	305	153	410	134	154	664
24	172	237	382	e285	584	425	290	156	1,160	130	142	599
25	177	223	382	275	565	398	274	220	669	114	133	561
26	169	217	363	283	588	387	262	174	1,130	100	127	527
27	171	217	330	287	711	379	268	143	1,290	92	117	668
28	192	209	318	297	1,020	377	278	131	527	1,070	110	34,500
29	377	216	309	325	3,030	364	282	124	375	684	114	29,300
30	731	218	307	389	---	362	252	116	291	933	692	8,530
31	432	---	307	396	---	409	---	110	---	583	1,520	---
TOTAL	8,444	7,506	16,783	10,050	46,808	29,610	14,025	8,490	11,507	10,731	19,511	167,504
MEAN	272	250	541	324	1,614	955	468	274	384	346	629	5,583
MAX	731	485	2,490	603	9,080	5,210	1,270	881	1,290	1,070	5,640	39,700
MIN	169	185	201	275	337	362	252	110	106	92	93	145
CFSM	0.20	0.18	0.39	0.24	1.18	0.70	0.34	0.20	0.28	0.25	0.46	4.07
IN.	0.23	0.20	0.46	0.27	1.27	0.80	0.38	0.23	0.31	0.29	0.53	4.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

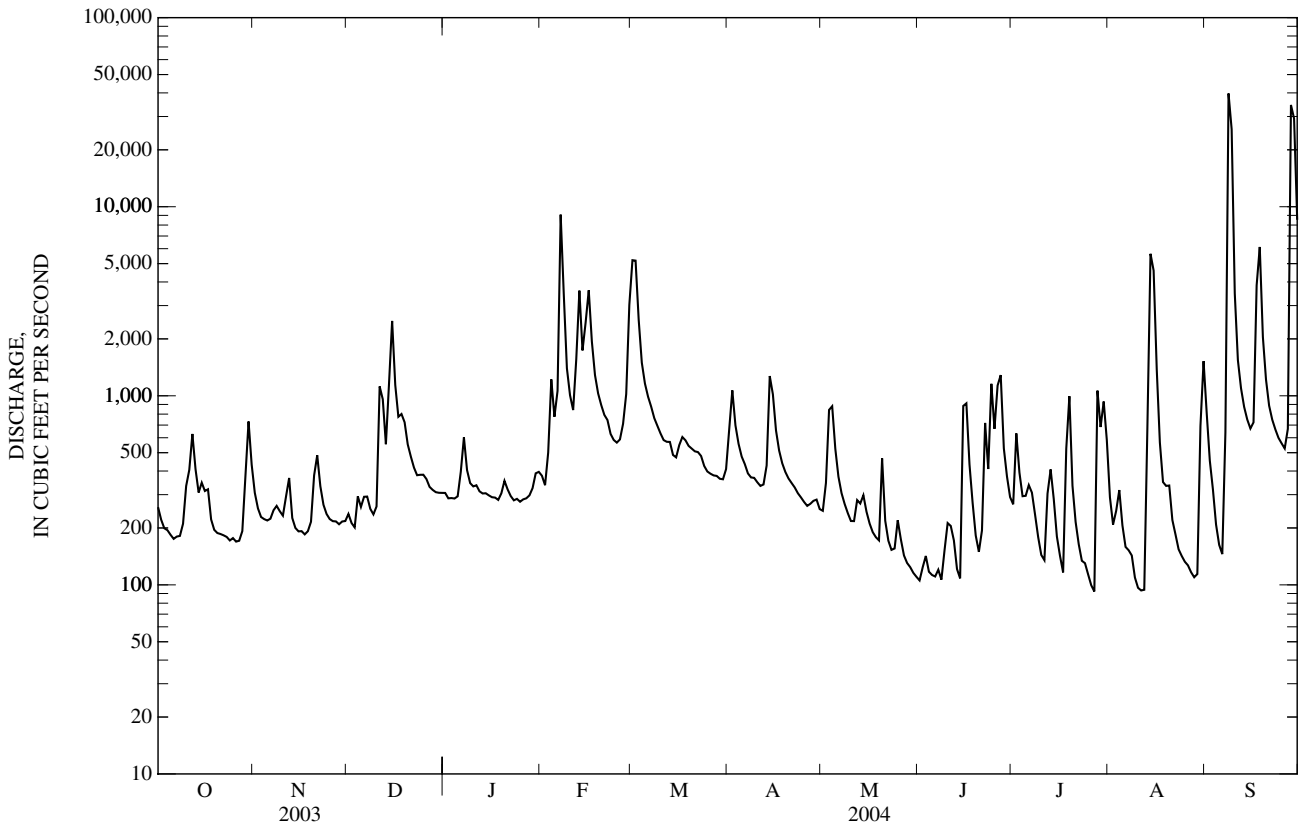
MEAN	881	784	1,276	2,405	2,724	2,718	1,766	852	711	767	738	728
MAX	6,837	4,763	4,564	7,458	7,922	7,674	7,097	4,606	4,519	3,479	2,917	8,262
(WY)	(1991)	(1949)	(1933)	(1998)	(1960)	(1993)	(1936)	(2003)	(2003)	(1997)	(1967)	(1945)
MIN	45.9	54.1	105	152	321	412	234	140	88.5	95.6	82.4	41.0
(WY)	(1931)	(1942)	(1934)	(1934)	(1938)	(1981)	(1967)	(2002)	(1986)	(1986)	(1957)	(1954)

02126000 ROCKY RIVER NEAR NORWOOD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL TOTAL	979,196		350,969			
ANNUAL MEAN	2,683		959		1,356	
HIGHEST ANNUAL MEAN					3,127	2003
LOWEST ANNUAL MEAN					406	2002
HIGHEST DAILY MEAN	46,100	Apr 11	39,700	Sep 8	85,600	Sep 18, 1945
LOWEST DAILY MEAN	169	Oct 26	92	Jul 27	19	Oct 28, 1931
ANNUAL SEVEN-DAY MINIMUM	177	Oct 21	118	May 31	26	Oct 7, 1954
MAXIMUM PEAK FLOW			52,500	Sep 8	105,000	Sep 18, 1945
MAXIMUM PEAK STAGE			29.30	Sep 8	46.37*	Sep 18, 1945
INSTANTANEOUS LOW FLOW			86	Aug 12	17	Oct 8, 1954
ANNUAL RUNOFF (CFSM)	1.96		0.699		0.989	
ANNUAL RUNOFF (INCHES)	26.55		9.52		13.43	
10 PERCENT EXCEEDS	6,660		1,160		2,950	
50 PERCENT EXCEEDS	936		329		400	
90 PERCENT EXCEEDS	222		148		105	

* See REMARKS.

e Estimated.



02128000 LITTLE RIVER NEAR STAR, NC

LOCATION.--Lat 35°23'14", long 79°49'53", Montgomery County, Hydrologic Unit 03040104, on left bank 9 ft downstream from bridge on Secondary Road 1340, 50 ft upstream from Black Rock Branch, 0.2 mi upstream from Norfolk Southern Railway bridge, 0.3 mi downstream from West Fork Little River, and 3 mi west of Star.

DRAINAGE AREA.--106 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54. April 1954 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 409.00 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. No flow also occurred Aug. 13-15, 25-26, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1945 reached a stage of about 20 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	60	58	59	83	267	129	58	38	98	20	53
2	64	57	53	59	65	181	133	616	29	46	17	30
3	61	54	50	59	153	135	94	693	25	33	17	20
4	62	54	51	60	189	116	83	182	30	27	17	17
5	61	55	71	61	97	107	76	111	32	23	14	15
6	59	58	73	140	130	103	72	89	32	20	9.3	13
7	60	63	65	92	683	102	72	77	31	18	6.9	21
8	62	76	59	67	213	95	72	69	27	15	5.8	3,200
9	65	68	55	64	130	91	71	64	32	12	5.1	1,380
10	67	60	73	65	110	88	69	61	75	10	4.4	145
11	80	57	263	62	100	85	68	57	46	22	3.7	73
12	75	57	124	61	181	83	74	54	35	14	6.1	51
13	68	57	82	63	327	81	176	53	29	39	133	40
14	66	53	175	62	164	77	274	52	27	25	734	34
15	73	51	251	61	158	92	133	50	52	17	250	32
16	71	53	127	57	238	127	96	48	52	10	61	31
17	61	54	110	55	165	185	84	45	40	7.8	35	62
18	58	54	130	65	132	136	78	43	33	43	34	185
19	56	67	102	84	117	147	73	41	28	30	35	73
20	55	121	84	71	107	129	71	41	28	17	24	43
21	54	83	74	60	100	104	68	39	21	13	17	33
22	54	64	71	57	94	93	65	39	22	10	15	30
23	53	59	69	57	88	84	61	43	21	8.4	14	27
24	51	57	71	56	88	81	60	50	30	6.9	14	25
25	51	55	71	56	87	80	57	41	36	5.7	13	23
26	55	53	67	59	85	79	57	35	71	5.2	11	23
27	62	53	64	58	102	79	68	32	72	8.4	9.7	122
28	68	56	63	58	117	80	64	30	48	15	9.0	2,120
29	150	72	63	61	230	77	57	28	110	81	8.8	502
30	119	69	63	78	---	76	54	29	136	53	19	142
31	70	---	61	101	---	84	---	36	---	38	161	---
TOTAL	2,078	1,850	2,793	2,068	4,533	3,344	2,609	2,906	1,288	771.4	1,723.8	8,565
MEAN	67.0	61.7	90.1	66.7	156	108	87.0	93.7	42.9	24.9	55.6	286
MAX	150	121	263	140	683	267	274	693	136	98	734	3,200
MIN	51	51	50	55	65	76	54	28	21	5.2	3.7	13
CFSM	0.63	0.58	0.85	0.63	1.47	1.02	0.82	0.88	0.41	0.23	0.52	2.69
IN.	0.73	0.65	0.98	0.73	1.59	1.17	0.92	1.02	0.45	0.27	0.60	3.01

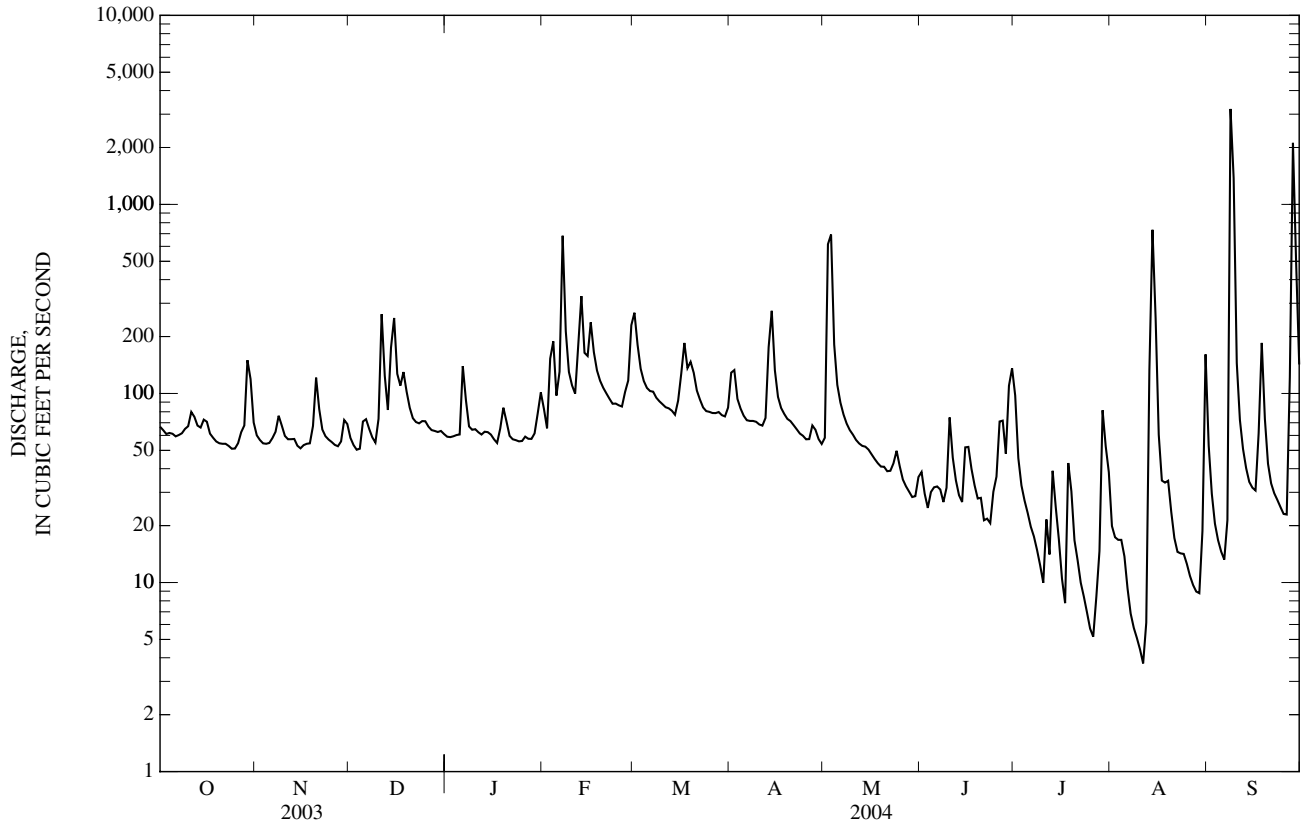
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	69.9	66.1	96.1	166	208	219	172	98.8	70.6	66.1	57.8	55.6
MAX	337	366	361	511	467	678	430	296	273	578	474	286
(WY)	(1991)	(1986)	(1973)	(1998)	(1960)	(1998)	(1958)	(1990)	(1972)	(1997)	(2003)	(2004)
MIN	4.03	7.77	11.0	23.5	38.6	47.0	38.0	13.7	2.55	1.20	0.50	0.76
(WY)	(1987)	(2002)	(2002)	(2001)	(2002)	(1967)	(1967)	(2002)	(2002)	(2002)	(2002)	(1968)

02128000 LITTLE RIVER NEAR STAR, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	78,906		34,529.2		112	
ANNUAL MEAN	216		94.3		27.4	
HIGHEST ANNUAL MEAN					243	2003
LOWEST ANNUAL MEAN					27.4	2002
HIGHEST DAILY MEAN	5,510	Aug 10	3,200	Sep 8	9,800	Jul 23, 1997
LOWEST DAILY MEAN	44	Jan 29	3.7	Aug 11	0.00	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	46	Jan 23	5.9	Aug 6	0.00	Aug 10, 2002
MAXIMUM PEAK FLOW			5,790	Sep 8	15,400	Jul 23, 1997
MAXIMUM PEAK STAGE			11.49	Sep 8	18.60	Jul 23, 1997
INSTANTANEOUS LOW FLOW			3.3	Aug 12	0.00*	Aug 12, 2002
ANNUAL RUNOFF (CFSM)	2.04		0.890		1.06	
ANNUAL RUNOFF (INCHES)	27.69		12.12		14.36	
10 PERCENT EXCEEDS	379		136		194	
50 PERCENT EXCEEDS	99		61		50	
90 PERCENT EXCEEDS	55		17		9.0	

* See REMARKS.



02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC

LOCATION.--Lat 34°56'45", long 79°52'11", Richmond County, Hydrologic Unit 03040201, on left bank at bridge on U.S. Highway 74, 2.5 mi upstream from Falling Creek, 3.3 mi downstream of Blewett Falls hydroelectric plant, 6 mi west of Rockingham, and 192 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,863 mi².

PERIOD OF RECORD.--August 1906 to January 1912, October 1927 to current year. August 1906 to January 1912 published as "Yadkin River near Pee Dee".

REVISED RECORDS.--WSP 1203: 1928-37. WSP 1303: 1928-42 (monthly and yearly runoff), 1943-46 (adjusted monthly runoff). WSP 1503: 1906-12, 1928-32(m). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 120.68 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). August 1906 to January 1912 nonrecording gage at site 3.3 mi upstream at different datum. Sept. 1927 to Sept. 30, 1931, water-stage recorder at present site at 121.68 ft. Telephone and satellite telemetry at station.

REMARKS.--Records good except those below 1000 ft³/s, which are fair. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. Prior to regulation, maximum discharge: 276,000 ft³/s, Aug. 27, 1908; gage height: 31.28 ft, present site and datum, from records of State Highway Commission. Prior to regulation, minimum discharge: 2,210 ft³/s, Sept. 3, 1907. Minimum discharge for period of record also occurred Dec. 2, 3, 1951; minimum daily discharge for period of record: 58 ft³/s, Dec 2, 1951, a result of abnormally low flow during shutdown of Blewett Falls hydroelectric plant to produce steady flow for current-meter measurements at this gaging station. Minimum discharge from normal regulations: 96 ft³/s, Oct. 25, 1943; minimum daily discharge: 120 ft³/s, Oct. 8, 1961.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,710	227	6,680	8,090	2,290	9,050	7,730	4,710	2,700	3,520	3,430	7,290
2	4,870	240	7,810	7,200	2,260	12,800	3,820	2,960	2,640	4,410	2,370	3,420
3	750	2,100	8,130	3,520	3,040	13,100	1,480	9,170	2,620	6,230	934	4,510
4	391	3,110	9,430	988	5,880	11,000	919	9,630	3,110	2,680	5,280	414
5	285	4,180	8,110	5,890	8,860	10,200	5,880	6,060	580	2,930	6,160	435
6	3,840	4,630	9,120	8,720	9,420	8,630	4,820	7,250	331	5,010	2,870	1,030
7	4,190	4,620	9,600	7,500	9,800	4,740	4,250	7,150	3,400	5,840	302	8,040
8	4,670	1,520	8,300	7,390	15,200	6,950	5,850	2,870	4,870	5,800	279	38,400
9	7,590	500	6,180	7,170	11,500	7,070	5,510	7,280	3,750	3,800	3,870	81,400
10	6,320	4,170	6,190	7,310	13,100	7,320	1,930	7,990	3,310	653	7,410	59,500
11	3,410	5,200	4,290	4,770	11,200	6,780	3,110	7,680	3,770	363	2,080	34,100
12	987	5,770	7,580	6,180	11,800	7,030	5,810	7,700	1,460	3,800	5,140	14,900
13	5,230	5,630	8,400	5,870	13,600	6,920	6,610	4,860	469	4,260	9,050	10,900
14	7,910	8,330	8,070	5,840	12,000	1,750	7,440	914	1,140	4,980	8,980	12,700
15	7,450	1,470	9,470	7,110	10,300	6,670	9,540	366	3,340	5,560	9,780	17,700
16	6,560	681	10,700	7,010	10,600	6,080	9,490	284	5,150	4,600	8,530	14,400
17	6,070	4,970	9,750	3,650	11,600	6,070	9,470	3,290	5,160	840	5,020	10,100
18	2,420	7,980	7,900	1,030	10,400	7,240	4,590	3,530	5,900	360	5,610	16,100
19	1,600	8,730	5,830	5,480	9,860	7,280	4,700	6,070	4,110	2,520	5,560	9,850
20	5,110	10,900	6,010	7,450	9,700	3,490	6,030	5,940	611	2,730	5,840	6,380
21	4,700	10,900	6,410	5,780	9,510	1,720	6,350	6,020	4,520	4,220	2,570	4,720
22	6,450	9,810	5,730	6,740	5,260	5,850	6,780	969	5,330	3,990	917	5,920
23	5,550	3,870	6,900	8,790	8,080	5,480	6,980	2,430	7,490	5,200	961	6,310
24	4,500	5,170	7,170	6,660	6,750	7,150	4,560	3,940	9,230	919	1,390	5,430
25	2,520	5,700	5,810	5,960	8,200	7,590	3,360	4,370	8,220	290	2,630	3,860
26	3,730	5,800	5,980	6,680	8,330	4,130	4,450	3,350	3,390	2,410	3,800	6,400
27	4,760	6,340	6,960	7,590	8,070	1,390	7,160	2,130	3,460	2,780	4,090	5,280
28	6,060	6,680	4,930	6,460	8,020	1,400	6,830	2,590	7,860	2,930	558	25,300
29	7,130	7,040	7,930	5,730	8,070	4,280	5,400	456	5,220	8,570	3,310	79,000
30	6,990	3,140	6,870	5,460	---	6,200	5,490	322	4,690	4,750	5,260	76,300
31	5,360	---	8,250	2,780	---	6,080	---	1,460	---	3,590	4,100	---
TOTAL	144,113	149,408	230,490	186,798	262,700	201,440	166,339	133,741	117,831	110,535	128,081	570,089
MEAN	4,649	4,980	7,435	6,026	9,059	6,498	5,545	4,314	3,928	3,566	4,132	19,000
MAX	7,910	10,900	10,700	8,790	15,200	13,100	9,540	9,630	9,230	8,570	9,780	81,400
MIN	285	227	4,290	988	2,260	1,390	919	284	331	290	279	414
†	-540	+52	-169	-1,646	+1,846	+78	+706	+69	+340	-211	-619	+1,208

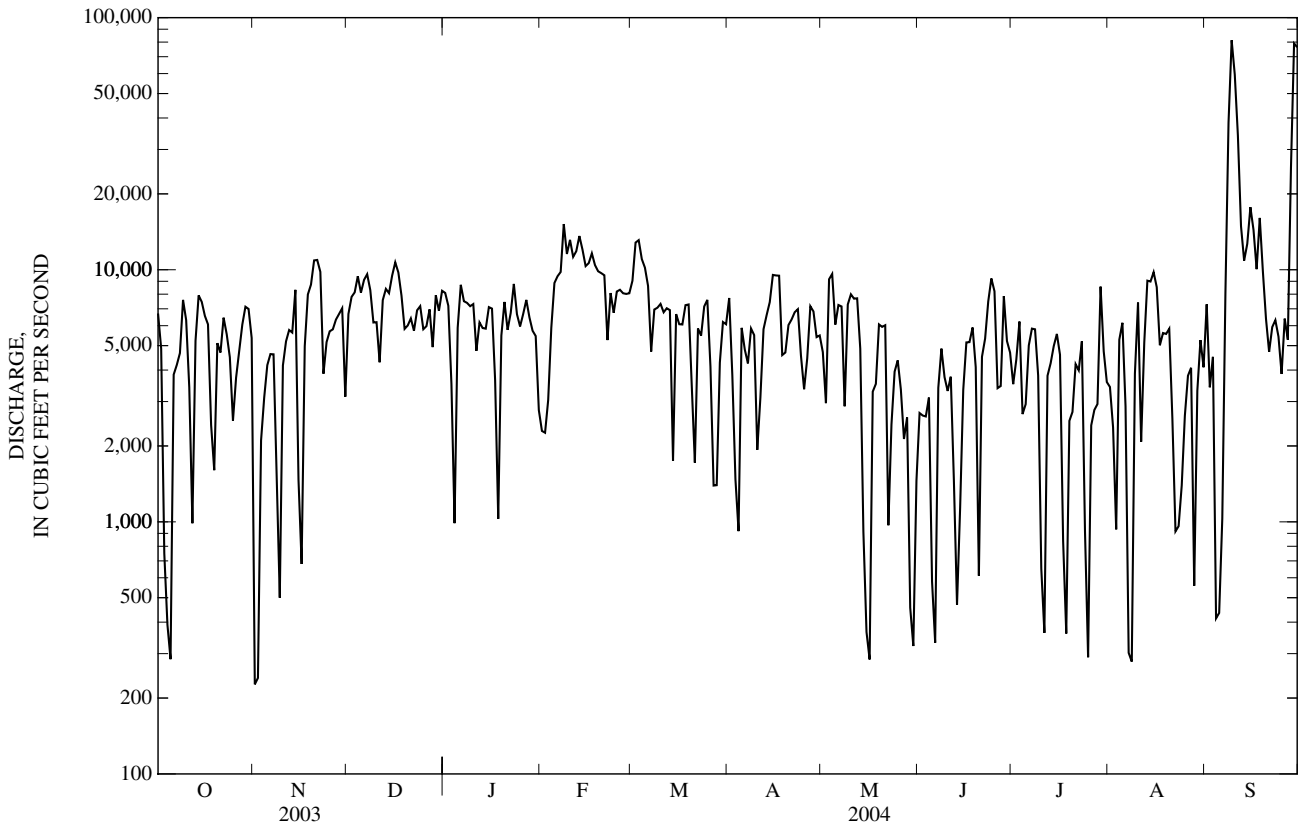
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004,* BY WATER YEAR (WY)

MEAN	5,843	5,510	7,465	10,860	12,420	13,430	10,850	7,251	5,986	5,278	5,420	5,541
MAX	25,850	16,120	20,300	31,270	36,040	34,480	31,340	17,410	20,260	16,790	19,180	35,690
(WY)	(1991)	(1958)	(1933)	(1937)	(1960)	(1993)	(1936)	(2003)	(2003)	(1975)	(1928)	(1928)
MIN	503	419	1,598	2,475	3,032	4,117	2,692	1,955	1,853	1,668	979	1,008
(WY)	(2002)	(2002)	(2002)	(1956)	(2001)	(1981)	(1981)	(2002)	(1986)	(2002)	(2002)	(1954)

02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004*	
ANNUAL TOTAL	5,135,046		2,401,565		7,966 (UNADJUSTED)	
ANNUAL MEAN	14,070		6,562		2,310	
HIGHEST ANNUAL MEAN			‡6640		14,980 2003	
LOWEST ANNUAL MEAN					2,310 2002	
HIGHEST DAILY MEAN	140,000	Apr 11	81,400	Sep 9	242,000	Sep 18, 1945
LOWEST DAILY MEAN	227	Nov 1	227	Nov 1	58*	Dec 2, 1951
ANNUAL SEVEN-DAY MINIMUM	2,710	Oct 2	1,760	May 27	185	Sep 28, 1985
MAXIMUM PEAK FLOW			85,300	Sep 9	27,000*	Sep 18, 1945
MAXIMUM PEAK STAGE			13.71	Sep 9	30.80*	Sep 18, 1945
INSTANTANEOUS LOW FLOW			199	Nov 1	50*	Dec 2, 1951
10 PERCENT EXCEEDS	28,300		9,790		14,400	
50 PERCENT EXCEEDS	9,600		5,750		5,580	
90 PERCENT EXCEEDS	3,910		1,110		1,530	

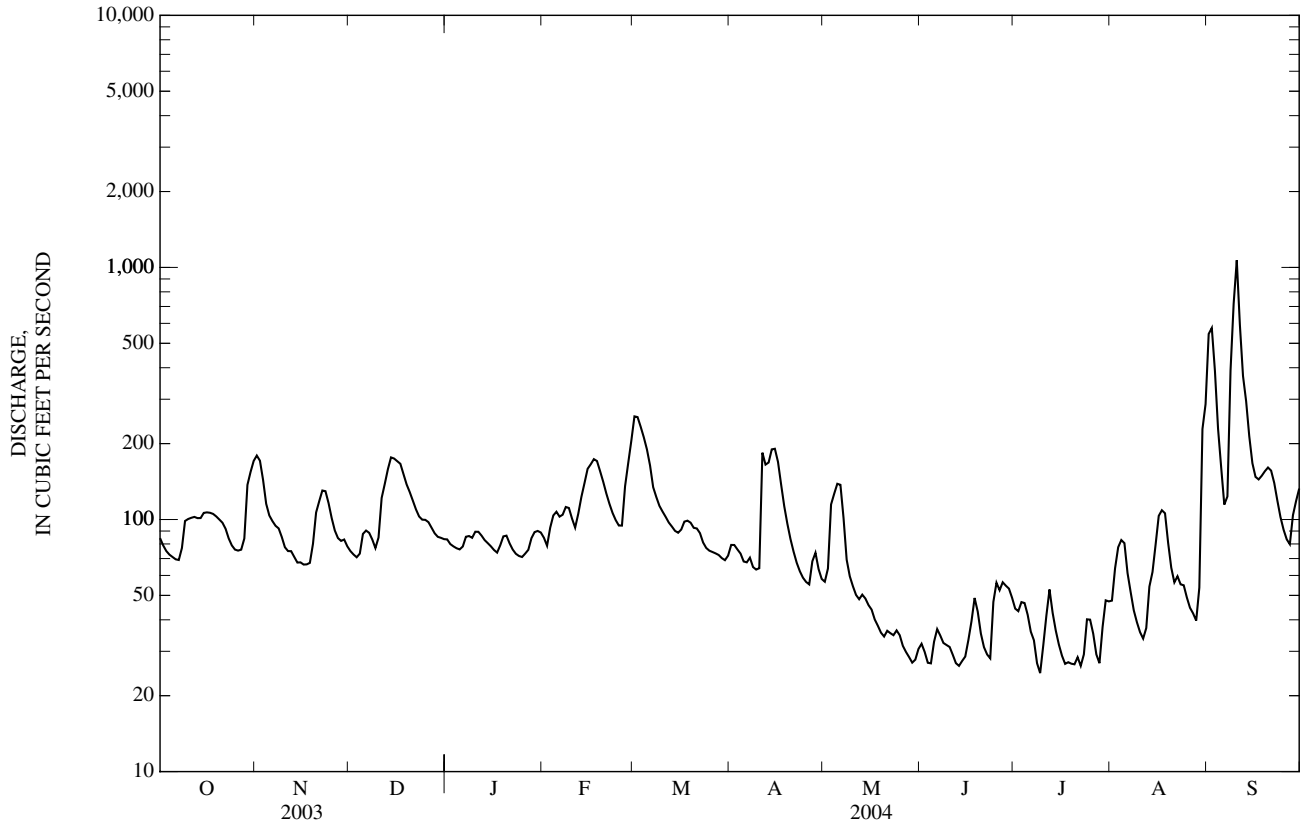
† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers; High Rock Lake, Tuckertown Reservoir, and Badin Lake, provided by Yadkin, Inc.; Lake Tillery and Blewett Falls Lake, provided by Carolina Power and Light Company.
 * Regulated period only (1928-2004). See REMARKS.
 ‡ Adjusted for change in contents.



02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	46,479		35,807			
ANNUAL MEAN	127		97.8		93.7	
HIGHEST ANNUAL MEAN					146	2000
LOWEST ANNUAL MEAN					34.6	2002
HIGHEST DAILY MEAN	568	Jul 4	1,070	Sep 10	1,150	Oct 20, 1999
LOWEST DAILY MEAN	51	Jun 28	25	Jul 9	1.0	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	60	Jun 24	27	Jul 16	2.3	Aug 10, 2002
MAXIMUM PEAK FLOW			1200*	Sep 10	1200*	Sep 10, 2004
MAXIMUM PEAK STAGE			5.52	Sep 10	5.52	Sep 10, 2004
INSTANTANEOUS LOW FLOW			22	Jul 9	0.50*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	1.53		1.17		1.13	
ANNUAL RUNOFF (INCHES)	20.76		15.99		15.29	
10 PERCENT EXCEEDS	198		165		175	
50 PERCENT EXCEEDS	109		80		73	
90 PERCENT EXCEEDS	69		33		27	

* See REMARKS.



02133500 DROWNING CREEK NEAR HOFFMAN, NC

LOCATION.--Lat 35°03'40", long 79°29'38", Richmond County, Hydrologic Unit 03040203, on right bank 10 ft downstream of bridge on U.S. Highway 1, 1 mi upstream from Seaboard Coast Line Railroad bridge, 0.8 mi downstream of Deep Creek, and 4 mi northeast of Hoffman.

DRAINAGE AREA.--183 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 972: 1941(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage. These withdrawals cause some diurnal fluctuation at low to medium flow and may affect yearly minimums. A daily average of 4.3 ft³/s was diverted during the year. No flow for period of record also occurred on Aug. 15, 2002. Minimum discharge for current water year also occurred July 17.

REVISIONS.--Maximum discharge for water year 1999 to 1,070 ft³/s, Jan. 26, 1999, gage height 6.35 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	422	252	202	218	458	187	95	58	63	106	408
2	224	351	231	207	206	438	208	169	56	62	126	435
3	212	290	207	204	207	414	205	328	52	61	141	386
4	195	256	196	193	261	387	177	495	54	80	145	327
5	187	247	216	203	290	348	164	478	54	71	151	210
6	190	252	237	221	278	305	152	355	82	57	126	160
7	186	250	256	221	253	279	145	228	79	50	101	188
8	205	232	242	211	281	266	142	158	75	44	100	749
9	251	240	217	199	291	245	132	132	93	43	107	913
10	279	251	226	201	254	229	129	123	168	52	121	673
11	291	246	307	212	217	223	132	107	167	66	131	569
12	293	229	403	212	241	212	148	98	94	68	138	450
13	291	227	423	203	307	201	216	93	73	51	151	352
14	290	218	425	206	358	194	265	92	73	58	166	279
15	301	201	408	208	385	195	e250	81	84	57	180	241
16	345	195	408	192	397	221	220	75	84	45	241	254
17	337	197	403	177	382	270	175	79	93	42	217	240
18	326	204	378	195	362	322	152	73	78	48	177	262
19	288	239	335	236	339	326	143	72	64	54	173	332
20	274	323	302	252	300	276	e140	76	58	53	169	320
21	248	400	286	226	265	244	e128	74	55	60	174	262
22	226	381	266	200	243	232	121	67	56	63	151	182
23	212	330	254	187	230	214	117	73	55	73	143	154
24	201	268	253	178	215	195	104	81	68	73	138	136
25	195	237	248	183	210	183	100	92	71	69	128	120
26	193	224	264	186	215	174	102	75	81	74	125	119
27	204	207	246	191	250	161	118	65	93	82	130	130
28	248	215	230	196	344	162	139	60	88	83	130	201
29	357	215	226	209	431	162	122	53	78	85	131	339
30	447	232	223	215	---	154	102	54	66	90	316	444
31	472	---	219	215	---	162	---	61	---	98	417	---
TOTAL	8,214	7,779	8,787	6,341	8,230	7,852	4,635	4,162	2,350	1,975	4,950	9,835
MEAN	265	259	283	205	284	253	154	134	78.3	63.7	160	328
MAX	472	422	425	252	431	458	265	495	168	98	417	913
MIN	186	195	196	177	206	154	100	53	52	42	100	119
CFSM	1.45	1.42	1.55	1.12	1.55	1.38	0.84	0.73	0.43	0.35	0.87	1.79
IN.	1.67	1.58	1.79	1.29	1.67	1.60	0.94	0.85	0.48	0.40	1.01	2.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

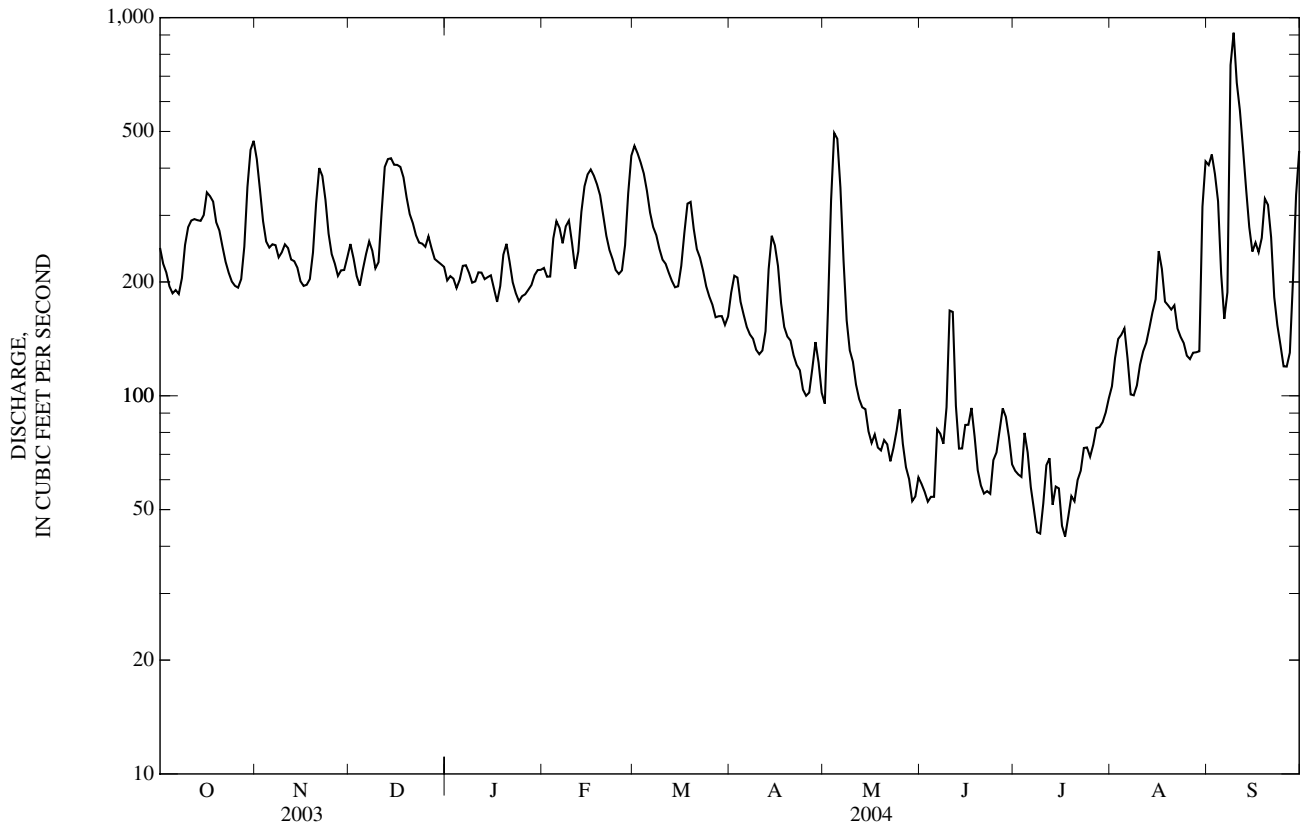
MEAN	199	228	260	321	357	377	321	224	170	188	185	184
MAX	595	499	530	561	687	729	842	465	421	624	591	932
(WY)	(1965)	(1980)	(1973)	(1998)	(1960)	(1998)	(1973)	(1958)	(1976)	(1944)	(2003)	(1945)
MIN	48.5	76.5	107	145	147	157	111	49.2	11.0	11.2	12.8	28.8
(WY)	(1941)	(2002)	(2002)	(2001)	(1992)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1968)

02133500 DROWNING CREEK NEAR HOFFMAN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	138,298		75,110		251	
ANNUAL MEAN	379		205		397	
HIGHEST ANNUAL MEAN					94.8	1984
LOWEST ANNUAL MEAN					8,530	Sep 18, 1945
HIGHEST DAILY MEAN	1,890	Aug 11	913	Sep 9	0.00	Aug 14, 2002
LOWEST DAILY MEAN	142	Jul 11	42	Jul 17	0.10	Aug 10, 2002
ANNUAL SEVEN-DAY MINIMUM	159	Jan 24	51	Jul 13	10,900	Sep 18, 1945
MAXIMUM PEAK FLOW			1,160	Sep 8	10.29	Sep 18, 1945
MAXIMUM PEAK STAGE			6.53	Sep 8	0.00*	Aug 14, 2002
INSTANTANEOUS LOW FLOW			29*	Jul 16	1.37	
ANNUAL RUNOFF (CFSM)	2.07		1.12		18.62	
ANNUAL RUNOFF (INCHES)	28.11		15.27		477	
10 PERCENT EXCEEDS	632		353		203	
50 PERCENT EXCEEDS	328		202		76	
90 PERCENT EXCEEDS	189		68			

* See REMARKS.

e Estimated.



02133624 LUMBER RIVER NEAR MAXTON, NC

LOCATION.--Lat 34°46'22", long 79°19'55", Robeson County, Hydrologic Unit 03040203, at downstream side of bridge, near right center of span, on State Highway 71, 2.6 mi north of Maxton, and 7.5 mi upstream from Gum Swamp.

DRAINAGE AREA.--365 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1974, 1980-85. June 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 180 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred on Aug. 14, 2002. Minimum discharge for current water year also occurred July 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	867	1,090	589	592	555	1,010	423	289	144	234	242	1,490
2	772	1,160	574	587	559	1,110	440	285	141	267	275	1,670
3	711	1,130	571	581	576	1,200	467	393	135	289	307	1,610
4	668	1,030	593	573	583	1,180	487	559	131	267	378	1,420
5	629	907	611	567	616	1,100	502	799	142	257	438	1,300
6	597	797	601	562	630	1,010	e480	1,010	170	250	391	1,180
7	569	732	612	580	657	933	e440	1,140	173	208	252	1,060
8	569	704	630	630	702	834	395	1,020	190	175	200	1,330
9	598	707	634	645	701	754	369	803	198	153	168	1,570
10	625	716	655	636	669	695	444	579	209	141	149	2,160
11	676	687	707	625	652	650	782	334	256	146	139	2,250
12	721	654	763	613	688	622	570	254	295	146	140	2,070
13	749	636	894	590	700	577	648	228	338	159	167	1,740
14	774	623	972	578	728	550	684	214	293	164	215	1,450
15	785	607	1,080	573	797	530	710	208	216	150	332	1,200
16	788	593	1,140	551	856	507	713	208	213	135	481	1,010
17	795	582	1,120	540	951	514	709	196	234	129	620	921
18	785	562	1,050	548	e1,020	553	676	182	281	125	701	881
19	778	581	1,020	533	e1,000	598	591	175	304	116	683	897
20	788	629	979	534	926	633	484	175	250	133	552	937
21	774	718	921	562	861	688	406	190	196	163	303	900
22	743	825	832	588	794	695	361	191	167	167	261	869
23	692	880	766	601	736	660	327	196	157	173	294	847
24	645	935	735	574	665	600	301	218	179	199	349	789
25	592	916	699	528	611	555	285	220	185	213	263	657
26	553	821	684	511	603	521	268	216	208	180	207	519
27	536	742	669	501	683	492	281	197	294	159	185	440
28	543	679	648	510	766	473	282	173	370	147	172	453
29	688	637	640	517	897	448	294	157	348	153	176	490
30	788	604	629	534	---	424	302	150	275	192	590	616
31	989	---	605	544	---	418	---	145	---	228	859	---
TOTAL	21,787	22,884	23,623	17,608	21,182	21,534	14,121	11,104	6,692	5,618	10,489	34,726
MEAN	703	763	762	568	730	695	471	358	223	181	338	1,158
MAX	989	1,160	1,140	645	1,020	1,200	782	1,140	370	289	859	2,250
MIN	536	562	571	501	555	418	268	145	131	116	139	440
CFSM	1.93	2.09	2.09	1.56	2.00	1.90	1.29	0.98	0.61	0.50	0.93	3.17
IN.	2.22	2.33	2.41	1.79	2.16	2.19	1.44	1.13	0.68	0.57	1.07	3.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

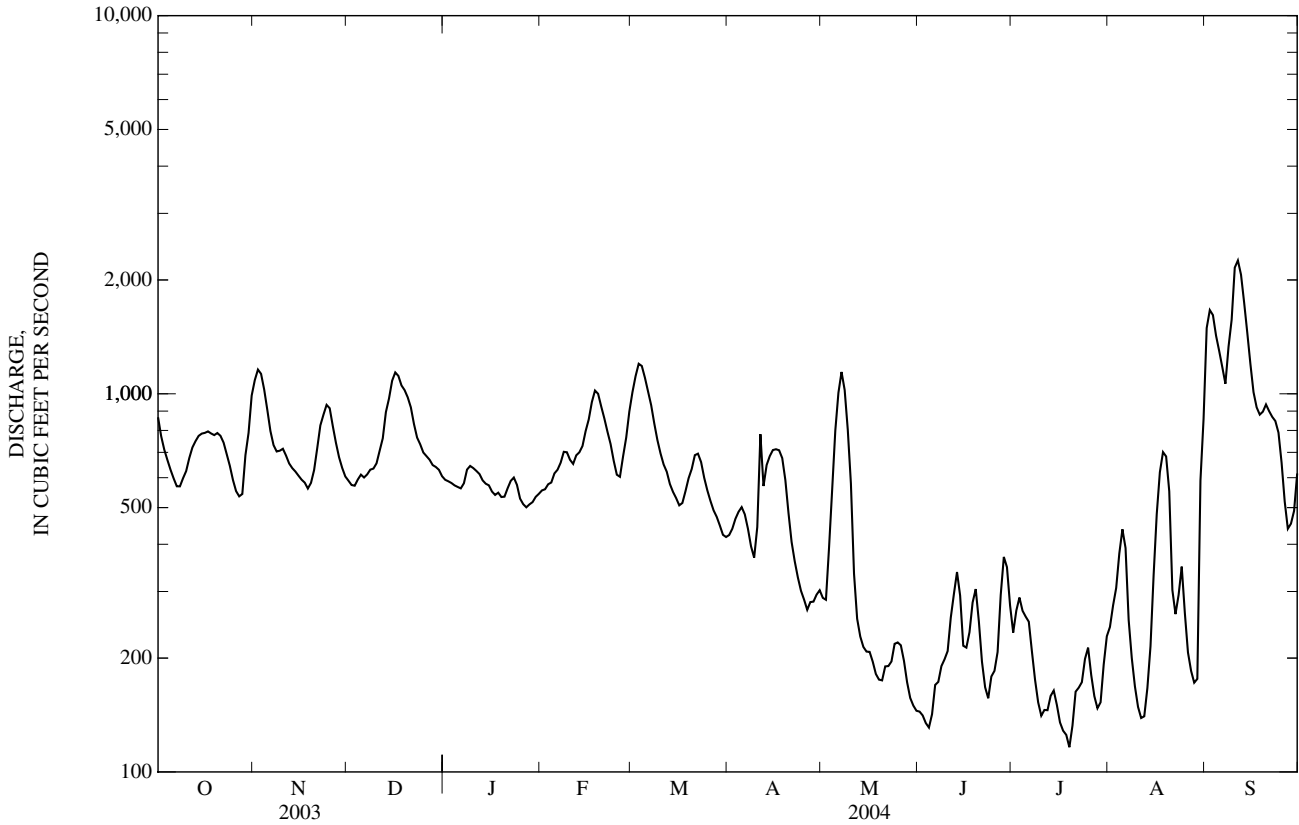
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	409	439	480	607	645	695	588	392	327	299	330	413						
MAX	827	763	762	926	1,205	1,267	1,144	932	1,022	710	1,356	1,158						
(WY)	(2000)	(2004)	(2004)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)						
MIN	184	166	220	364	300	363	303	135	67.6	63.2	51.5	130						
(WY)	(1988)	(2002)	(2002)	(1992)	(1992)	(1992)	(1992)	(2002)	(2002)	(2002)	(2002)	(1990)						

02133624 LUMBER RIVER NEAR MAXTON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	333,437		211,368		469	
ANNUAL MEAN	914		578		243	
HIGHEST ANNUAL MEAN					875	2003
LOWEST ANNUAL MEAN					243	2002
HIGHEST DAILY MEAN	2,780	Aug 13	2,250	Sep 11	3,070	Mar 22, 1998
LOWEST DAILY MEAN	364	Jan 29	116	Jul 19	28	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	391	Jan 25	136	Jul 15	32	Aug 10, 2002
MAXIMUM PEAK FLOW			2,280	Sep 11	3,380	Mar 22, 1998
MAXIMUM PEAK STAGE			12.30	Sep 11	13.52	Mar 22, 1998
INSTANTANEOUS LOW FLOW			113*	Jul 19	27*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	2.50		1.58		1.28	
ANNUAL RUNOFF (INCHES)	33.98		21.54		17.45	
10 PERCENT EXCEEDS	1,370		992		880	
50 PERCENT EXCEEDS	849		580		410	
90 PERCENT EXCEEDS	536		173		155	

* See REMARKS.

e Estimated.



02134170 LUMBER RIVER AT LUMBERTON, NC

LOCATION.--Lat 34°37'13", long 79°00'40", Robeson County, Hydrologic Unit 03040203, on right bank at upstream side of bridge on Fifth Street in Lumberton and 1.0 mi below Saddletree Swamp.

DRAINAGE AREA.--708 mi².

PERIOD OF RECORD.--Occasional measurements water years 1954, 1959, 1967. July 2000 to current year.

REVISED RECORDS.--WRD NC-03-1B:(M)

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred Aug. 14, 2002.

REVISIONS.--The maximum discharge for the water year 2003 has been revised to 3,250 ft³/s, Aug. 16, 2003, gage height, 15.32 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	1,480	790	821	723	2,570	625	545	238	403	262	2,740
2	1,190	1,450	734	795	714	2,430	611	574	232	394	314	3,010
3	1,130	1,420	691	773	732	2,280	598	812	218	371	363	3,140
4	1,060	1,400	680	755	765	2,150	590	1,020	223	370	380	3,120
5	964	1,380	720	739	797	2,040	579	1,100	278	390	401	2,980
6	873	1,330	733	726	817	1,970	575	1,050	240	373	413	2,650
7	794	1,270	742	705	833	1,860	573	978	242	343	410	2,330
8	775	1,180	745	687	839	1,710	578	994	258	309	413	2,510
9	792	1,070	732	695	847	1,530	582	1,090	282	285	392	4,400
10	796	960	761	713	849	1,380	559	1,150	285	262	330	6,900
11	822	878	994	728	859	1,280	554	1,120	297	299	270	7,030
12	837	828	1,120	751	953	1,170	717	998	348	311	250	6,090
13	825	797	1,150	758	1,060	1,080	1,230	843	354	346	354	5,240
14	836	767	1,230	753	1,130	999	1,960	676	363	384	457	4,420
15	881	739	1,400	745	1,280	939	2,110	531	395	343	595	3,750
16	889	708	1,550	728	1,370	897	1,970	444	426	287	755	3,240
17	893	678	1,620	707	1,460	867	1,770	398	416	245	998	2,810
18	913	655	1,660	700	1,600	835	1,560	367	397	219	1,210	2,520
19	919	687	1,650	692	1,640	803	1,390	345	380	204	1,190	2,340
20	922	784	1,560	682	1,610	779	1,260	328	364	195	1,060	2,130
21	903	831	1,430	684	1,540	782	1,140	328	357	187	952	1,930
22	868	853	1,320	680	1,440	787	1,010	311	347	181	934	1,780
23	832	856	1,260	667	1,350	792	887	322	313	209	848	1,660
24	803	851	1,220	663	1,260	804	776	355	294	219	701	1,540
25	772	871	1,160	672	1,180	814	684	312	291	224	549	1,420
26	735	908	1,080	709	1,180	802	620	305	387	232	475	1,330
27	695	932	1,000	736	1,740	768	622	298	361	239	452	1,240
28	700	940	945	747	2,420	727	592	286	411	236	412	1,190
29	1,200	911	899	755	2,620	686	571	269	381	232	406	1,060
30	1,510	853	871	751	---	653	555	254	390	224	987	942
31	1,520	---	844	739	---	638	---	247	---	233	1,990	---
TOTAL	28,929	29,267	33,291	22,456	35,608	37,822	27,848	18,650	9,768	8,749	19,523	87,442
MEAN	933	976	1,074	724	1,228	1,220	928	602	326	282	630	2,915
MAX	1,520	1,480	1,660	821	2,620	2,570	2,110	1,150	426	403	1,990	7,030
MIN	695	655	680	663	714	638	554	247	218	181	250	942
CFSM	1.32	1.38	1.52	1.02	1.73	1.72	1.31	0.85	0.46	0.40	0.89	4.12
IN.	1.52	1.54	1.75	1.18	1.87	1.99	1.46	0.98	0.51	0.46	1.03	4.59

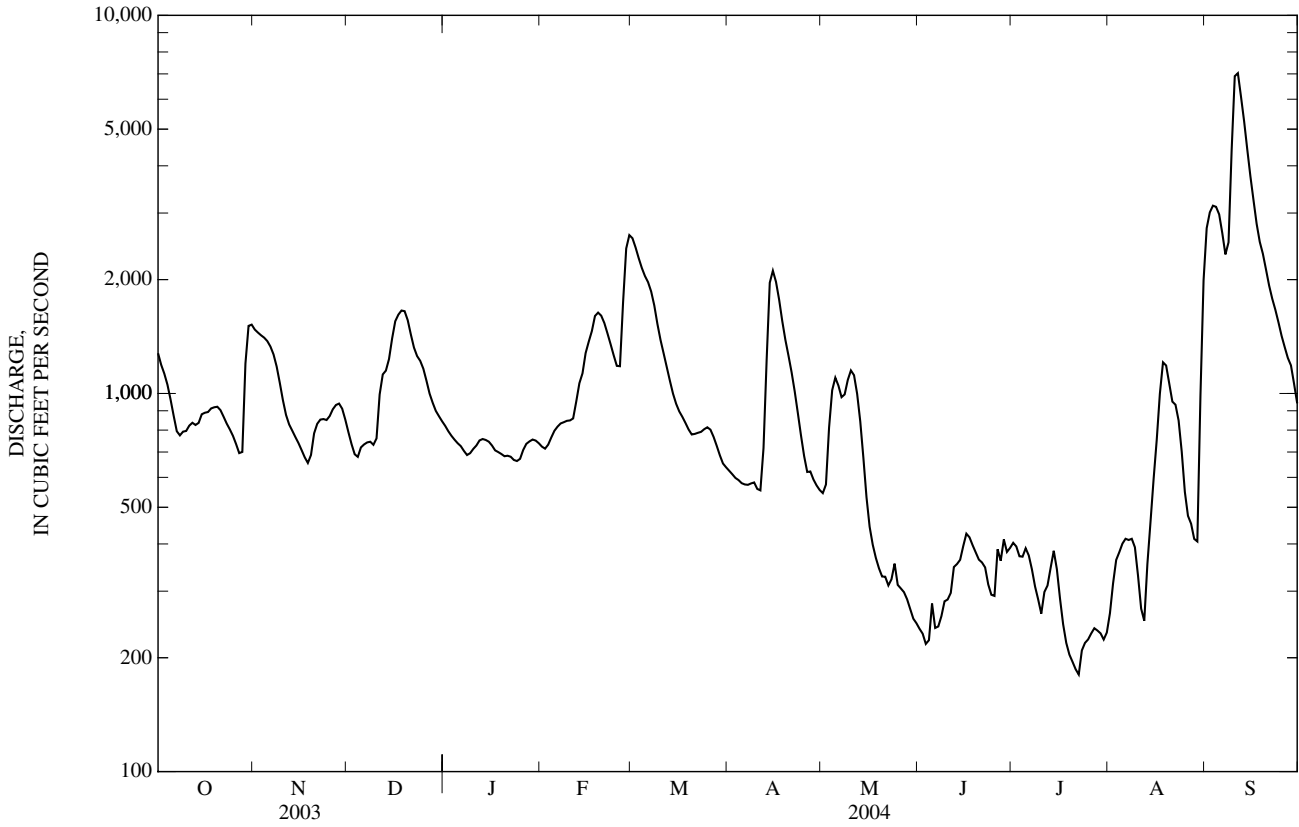
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004
MEAN	543	595	720	652	887
MAX	933	976	1,074	769	1,228
(WY)	(2004)	(2004)	(2004)	(2003)	(2004)
MIN	255	222	286	551	681
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)
	1,139	949	572	601	505
	1,905	1,638	1,207	1,292	1,311
	(2003)	(2003)	(2003)	(2003)	(2003)
	499	550	179	89.7	79.0
	(2002)	(2002)	(2002)	(2002)	(2002)
	1,139	949	572	601	505
	1,905	1,638	1,207	1,292	1,311
	(2003)	(2003)	(2003)	(2003)	(2003)
	499	550	179	89.7	79.0
	(2002)	(2002)	(2002)	(2002)	(2002)
	1,139	949	572	601	505
	1,905	1,638	1,207	1,292	1,311
	(2003)	(2003)	(2003)	(2003)	(2003)
	499	550	179	89.7	79.0
	(2002)	(2002)	(2002)	(2002)	(2002)

02134170 LUMBER RIVER AT LUMBERTON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	453,981		359,353		742	
ANNUAL MEAN	1,244		982		301	
HIGHEST ANNUAL MEAN					1,153	2003
LOWEST ANNUAL MEAN					301	2002
HIGHEST DAILY MEAN	2,690	Aug 16	7,030	Sep 11	7,030	Sep 11, 2004
LOWEST DAILY MEAN	553	Jan 29	181	Jul 22	51	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	565	Jan 25	202	Jul 18	55	Aug 11, 2002
MAXIMUM PEAK FLOW			7,420	Sep 11	7,420	Sep 11, 2004
MAXIMUM PEAK STAGE			18.29	Sep 11	18.29	Sep 11, 2004
INSTANTANEOUS LOW FLOW			176	Jul 22	51*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	1.76		1.39		1.05	
ANNUAL RUNOFF (INCHES)	23.85		18.88		14.25	
10 PERCENT EXCEEDS	1,960		1,750		1,530	
50 PERCENT EXCEEDS	1,140		786		598	
90 PERCENT EXCEEDS	694		293		166	

* See REMARKS.



02134480 BIG SWAMP NEAR TARHEEL, NC

LOCATION.--Lat 34°42'38", long 78°50'11", Robeson County, Hydrologic Unit 03040203, on left bank at downstream side of bridge on Secondary Road 1004, and 2.8 mi southwest of Tarheel.

DRAINAGE AREA.--229 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54, 1957-58, 1962-68. October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 105 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow, also occurred Sept. 1-4, 1993, June 12-13, July 3-27, Aug. 7-28, 2002.

REVISED RECORDS.--The maximum discharge for the water year 1998 has been revised to 2,560 ft³/s, Mar. 11, 1998, gage height 13.34 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	773	222	235	171	1,050	161	163	47	76	78	244
2	266	870	210	224	175	1,060	156	175	47	78	114	420
3	246	793	198	215	183	1,020	152	280	40	89	140	661
4	228	667	195	208	186	928	151	393	34	90	128	827
5	213	574	206	201	183	814	146	538	37	80	112	887
6	198	479	209	192	185	701	142	565	35	70	109	788
7	183	402	207	181	191	600	139	484	37	57	97	645
8	174	336	210	173	192	497	132	402	36	41	88	583
9	174	289	220	172	192	431	125	343	42	30	75	525
10	168	277	239	172	193	391	117	289	41	23	62	466
11	165	257	286	e178	190	356	170	248	52	20	43	767
12	164	240	306	174	197	332	216	212	59	24	37	1,520
13	171	210	367	172	212	299	334	190	69	21	66	1,580
14	188	201	519	170	228	279	572	164	78	17	82	1,370
15	209	190	609	172	289	266	747	135	78	14	121	1,090
16	215	182	641	167	355	256	746	112	75	14	171	816
17	214	175	668	164	427	249	668	94	77	13	191	682
18	220	167	657	165	507	248	e573	80	85	16	216	643
19	217	165	611	159	537	249	485	68	87	19	252	545
20	213	182	542	151	539	241	412	67	86	20	282	512
21	211	192	486	146	514	237	392	61	70	19	290	541
22	205	201	440	144	421	225	349	56	47	18	287	585
23	195	246	397	142	366	216	297	62	33	19	263	557
24	189	326	374	139	328	207	258	126	33	19	228	495
25	180	340	333	136	292	200	225	105	39	19	197	431
26	167	320	307	136	297	194	202	88	64	19	175	385
27	150	293	290	139	436	189	190	73	82	18	159	345
28	145	279	284	144	759	182	174	59	104	16	141	339
29	239	256	272	152	1,050	174	161	49	101	18	117	303
30	345	240	269	161	---	166	157	44	83	27	161	270
31	607	---	250	165	---	164	---	43	---	45	187	---
TOTAL	6,748	10,122	11,024	5,249	9,795	12,421	8,749	5,768	1,798	1,049	4,669	19,822
MEAN	218	337	356	169	338	401	292	186	59.9	33.8	151	661
MAX	607	870	668	235	1,050	1,060	747	565	104	90	290	1,580
MIN	145	165	195	136	171	164	117	43	33	13	37	244
CFSM	0.95	1.47	1.55	0.74	1.47	1.75	1.27	0.81	0.26	0.15	0.66	2.89
IN.	1.10	1.64	1.79	0.85	1.59	2.02	1.42	0.94	0.29	0.17	0.76	3.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

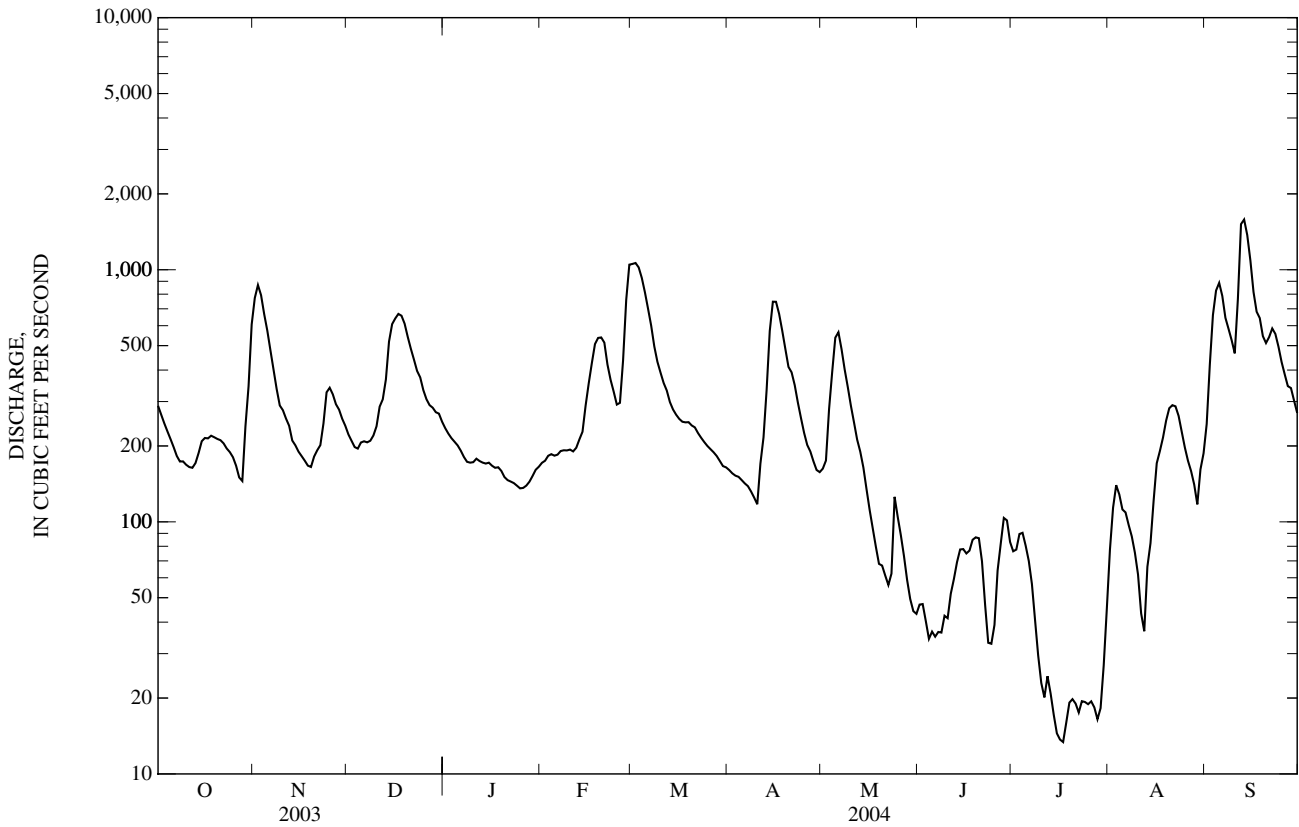
MEAN	181	167	222	392	383	415	269	124	107	103	140	232
MAX	1,094	382	396	1,001	1,418	1,194	571	362	474	469	551	923
(WY)	(2000)	(1993)	(1990)	(1993)	(1998)	(1998)	(1993)	(1999)	(1995)	(2003)	(2003)	(1999)
MIN	3.43	15.3	30.1	92.9	127	121	66.8	11.5	2.05	0.07	8.42	6.98
(WY)	(1999)	(1999)	(2002)	(1986)	(1986)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1997)

02134480 BIG SWAMP NEAR TARHEEL, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1986 - 2004	
ANNUAL TOTAL	130,566		97,214		227	
ANNUAL MEAN	358		266		395	
HIGHEST ANNUAL MEAN					62.9	1998
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	1,280	Aug 6	1,580	Sep 13	3,900	Feb 6, 1998
LOWEST DAILY MEAN	58	Jul 1	13	Jul 17	0.00	Aug 31, 1993
ANNUAL SEVEN-DAY MINIMUM	85	May 16	16	Jul 14	0.00	Jul 3, 2002
MAXIMUM PEAK FLOW			1,650	Sep 12	3,510	Sep 17, 1999
MAXIMUM PEAK STAGE			12.26	Sep 12	14.34	Sep 17, 1999
INSTANTANEOUS LOW FLOW			11	Jul 17	0.00*	Aug 31, 1993
ANNUAL RUNOFF (CFSM)	1.56		1.16		0.992	
ANNUAL RUNOFF (INCHES)	21.21		15.79		13.48	
10 PERCENT EXCEEDS	659		584		507	
50 PERCENT EXCEEDS	302		194		142	
90 PERCENT EXCEEDS	150		43		12	

* See REMARKS.

e Estimated.



02134500 LUMBER RIVER AT BOARDMAN, NC

LOCATION.--Lat 34°26'33", long 78°57'37". Robeson County, Hydrologic Unit 03040203, on right bank 150 ft downstream of bridge on U.S. Highway 74, 1 mi downstream of Seaboard Coast Line Railroad bridge at Boardman, 1.5 mi downstream of Big Swamp, and 40.5 mi upstream from mouth.

DRAINAGE AREA.--1,228 mi².

PERIOD OF RECORD.--September 1929 to current year.

REVISED RECORDS.--WSP 1303: 1932(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Sept. 30, 1936, nonrecording gage at site 100 ft downstream at same datum. Sept. 30, 1936, to June 8, 1943, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record also occurred Sept. 19, 1999. Minimum discharge for period of record also occurred Aug. 15, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 11.8 ft, from floodmark witnessed by local resident; discharge, 25,000 ft³/s. Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft, from observations by Butters Lumber Co.; discharge, 14,800 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,200	2,160	1,230	1,400	1,040	3,450	914	867	430	444	307	1,050
2	2,080	2,240	1,240	1,350	1,030	3,610	873	872	399	444	328	1,590
3	1,910	2,200	1,220	1,300	1,030	3,640	838	1,060	369	458	356	2,280
4	1,760	2,160	1,220	1,260	1,040	3,600	810	1,170	351	482	382	2,560
5	1,630	2,130	1,240	1,220	1,040	3,510	778	1,330	375	470	405	2,800
6	1,520	2,140	1,220	1,180	1,050	3,370	751	1,490	413	453	418	2,960
7	1,430	2,170	1,200	1,140	1,080	3,210	731	1,600	424	442	427	3,080
8	1,400	2,150	1,180	1,100	1,090	3,040	714	1,670	413	434	434	3,250
9	1,420	2,080	1,170	1,090	1,100	2,840	698	1,710	395	424	438	3,520
10	1,340	1,980	1,190	1,080	1,110	2,640	683	1,640	382	403	439	3,970
11	1,280	1,840	1,270	1,050	1,110	2,410	683	1,600	386	384	436	5,300
12	1,240	1,710	1,320	1,040	1,190	2,190	800	1,590	380	366	422	6,920
13	1,210	1,570	1,440	1,030	1,300	1,990	922	1,560	383	378	413	7,000
14	1,210	1,440	1,630	1,030	1,410	1,820	1,060	1,460	400	367	418	6,790
15	1,220	1,350	1,790	1,030	1,610	1,670	1,540	1,320	413	371	502	5,980
16	1,190	1,280	1,930	1,020	1,770	1,560	2,020	1,160	429	382	537	5,380
17	1,170	1,220	2,100	1,000	1,930	1,460	2,190	1,000	459	370	585	5,250
18	1,190	1,160	2,240	990	2,100	1,370	2,250	855	484	346	667	4,990
19	1,200	1,140	2,340	967	2,210	1,300	2,200	729	498	319	777	4,260
20	1,190	1,140	2,400	940	2,310	1,230	2,100	634	498	303	904	3,690
21	1,180	1,120	2,420	920	2,340	1,170	1,980	573	485	268	1,010	3,290
22	1,170	1,140	2,380	906	2,330	1,120	1,830	528	465	247	1,040	2,990
23	1,150	1,170	2,310	892	2,280	1,080	1,680	502	448	233	1,040	2,690
24	1,130	1,180	2,210	881	2,200	1,060	1,530	523	446	236	1,020	2,510
25	1,110	1,170	2,090	870	2,090	1,040	1,380	506	432	245	988	2,400
26	1,080	1,160	1,980	893	2,050	1,030	1,250	485	409	251	939	2,200
27	1,060	1,150	1,870	951	2,270	1,030	1,180	459	394	253	889	2,040
28	1,080	1,170	1,760	993	2,590	1,020	1,090	436	413	256	832	1,950
29	1,320	1,190	1,650	1,010	3,070	990	996	419	427	272	819	1,820
30	1,600	1,210	1,550	1,030	---	953	926	428	440	279	927	1,720
31	1,920	---	1,470	1,040	---	946	---	451	---	292	919	---
TOTAL	42,590	46,920	52,260	32,603	48,770	61,349	37,397	30,627	12,640	10,872	20,018	106,230
MEAN	1,374	1,564	1,686	1,052	1,682	1,979	1,247	988	421	351	646	3,541
MAX	2,200	2,240	2,420	1,400	3,070	3,640	2,250	1,710	498	482	1,040	7,000
MIN	1,060	1,120	1,170	870	1,030	946	683	419	351	233	307	1,050
CFSM	1.12	1.27	1.37	0.86	1.37	1.61	1.02	0.80	0.34	0.29	0.53	2.88
IN.	1.29	1.42	1.58	0.99	1.48	1.86	1.13	0.93	0.38	0.33	0.61	3.22

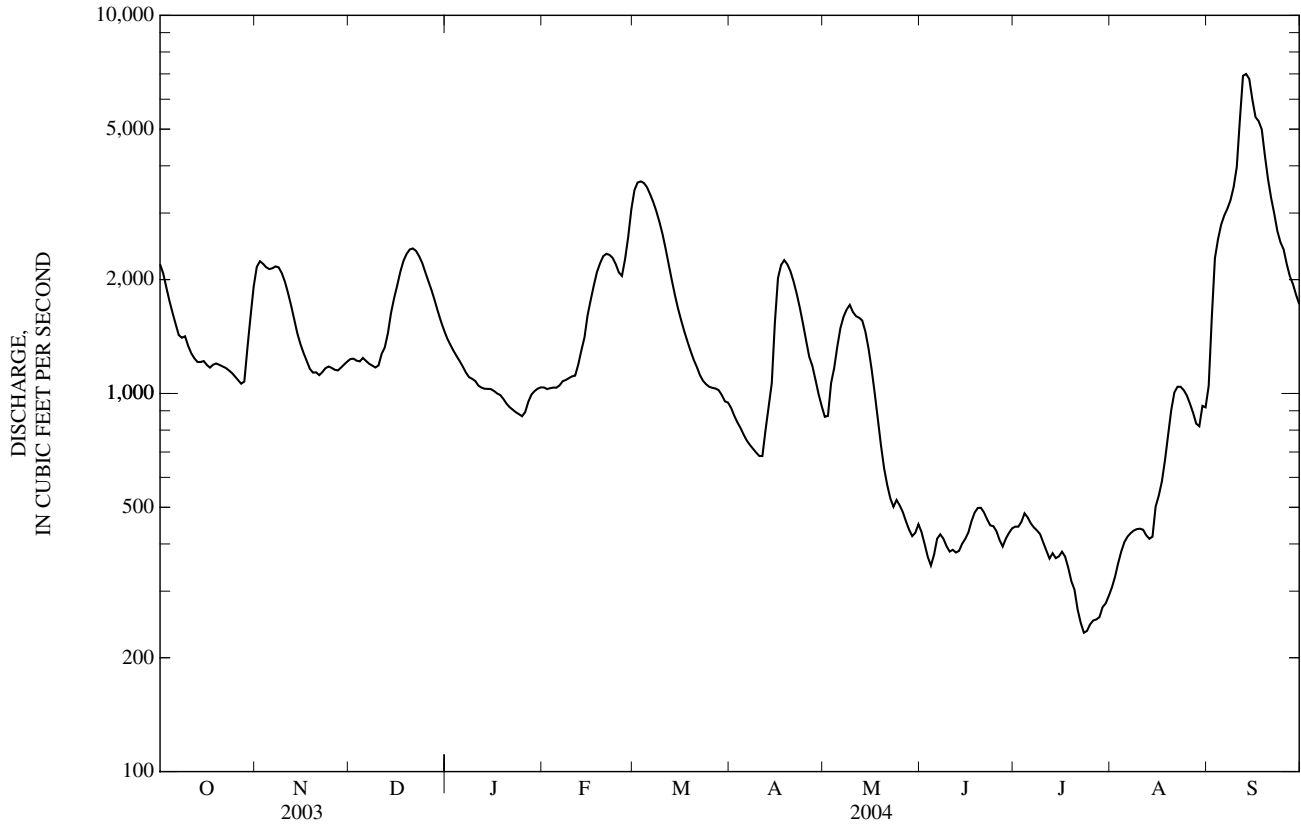
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

MEAN	892	891	1,294	1,844	2,209	2,334	1,844	991	761	809	929	1,091
MAX	5,496	4,142	3,977	4,575	5,944	5,259	5,688	3,430	2,587	2,897	3,741	4,930
(WY)	(2000)	(1948)	(1949)	(1993)	(1998)	(1983)	(1936)	(1978)	(1969)	(2003)	(1974)	(1999)
MIN	141	211	237	262	429	611	420	249	110	80.8	84.5	92.2
(WY)	(1941)	(1934)	(1934)	(1934)	(1934)	(1934)	(1981)	(2002)	(2002)	(2002)	(2002)	(1968)

02134500 LUMBER RIVER AT BOARDMAN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL TOTAL	719,292		502,276		1,319	
ANNUAL MEAN	1,971		1,372		2,391	
HIGHEST ANNUAL MEAN					405	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	5,370	Jul 19	7,000	Sep 13	13,400	Sep 24, 1945
LOWEST DAILY MEAN	677	Jan 29	233	Jul 23	42	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	688	Jan 28	246	Jul 22	48	Aug 18, 2002
MAXIMUM PEAK FLOW			7,090	Sep 13	13,400*	Sep 24, 1945
MAXIMUM PEAK STAGE			9.18	Sep 13	10.70	Sep 19, 1999
INSTANTANEOUS LOW FLOW			230	Jul 23	40*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.60		1.12		1.07	
ANNUAL RUNOFF (INCHES)	21.79		15.22		14.60	
10 PERCENT EXCEEDS	3,430		2,400		2,810	
50 PERCENT EXCEEDS	1,710		1,140		962	
90 PERCENT EXCEEDS	1,040		402		293	

* See REMARKS.



351812080445545 CRN01

LOCATION.--Lat 35°18'11", long 80°45'00", Mecklenburg County, Hydrologic Unit 03040105, Fire Station 27, Ken Hoffman Drive, Charlotte, NC.

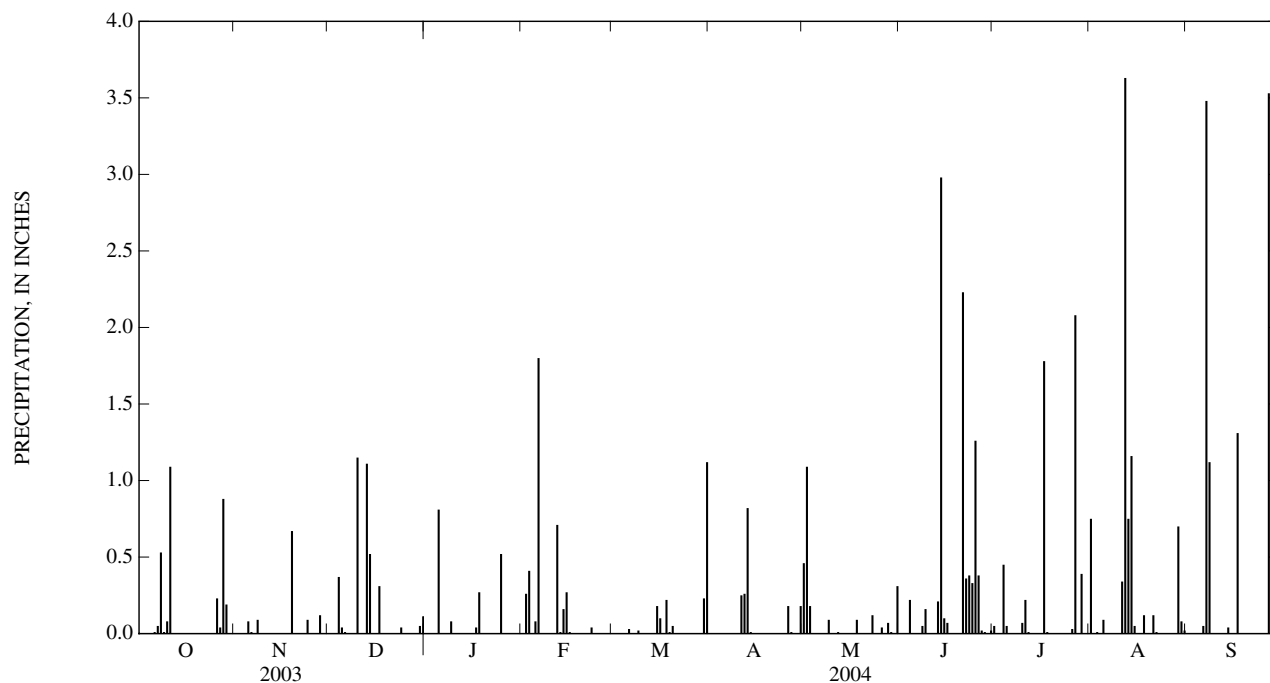
PERIOD OF RECORD.--September 1992 to current year. Records for period September 1992 to September 1998 published in USGS OFR 96-150, 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.05	0.75	0.00
2	0.00	0.00	0.00	0.00	0.26	0.00	0.00	1.09	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.18	0.00	0.00	0.01	0.00
4	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.22	0.45	0.00	0.00
5	0.00	0.08	0.04	0.81	0.08	0.00	0.00	0.00	0.00	0.05	0.09	0.00
6	0.01	0.01	0.01	0.00	1.80	0.03	0.00	0.00	0.00	0.00	0.00	0.05
7	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48
8	0.53	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	1.12
9	0.01	0.00	0.00	0.08	0.00	0.02	0.00	0.09	0.16	0.00	0.00	0.00
10	0.08	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
11	1.09	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.22	0.34	0.00
12	0.00	0.00	0.00	0.00	0.71	0.00	0.26	0.01	0.00	0.01	3.63	0.00
13	0.00	0.00	1.11	0.00	0.01	0.00	0.82	0.00	0.21	0.00	0.75	0.00
14	0.00	0.00	0.52	0.00	0.16	0.00	0.01	0.00	2.98	0.00	1.16	0.04
15	0.00	0.00	0.00	0.00	0.27	0.18	0.00	0.00	0.10	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.01	0.10	0.00	0.00	0.07	0.00	0.00	0.00
17	0.00	0.00	0.31	0.04	0.00	0.00	0.00	0.00	0.00	1.78	0.00	1.31
18	0.00	0.00	0.00	0.27	0.00	0.22	0.00	0.09	0.00	0.01	0.12	0.00
19	0.00	0.67	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23	0.00	0.12	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.01	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.12	0.38	0.00	0.00	0.00
24	0.00	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00
25	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00
26	0.23	0.00	0.00	0.00	---	0.00	0.18	0.04	0.38	0.03	0.00	0.00
27	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	2.08	0.00	3.53
28	0.88	0.12	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.00	1.68
29	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.39	0.70	0.00
30	0.00	0.00	0.05	0.00	---	0.23	0.18	0.00	0.02	0.00	0.08	0.00
31	0.00	---	0.00	0.00	---	1.12	---	0.31	---	0.00	0.02	---
TOTAL	3.11	1.06	3.60	1.72	---	1.96	1.71	2.47	8.78	5.14	7.83	11.21



351540080430045 CRN16

LOCATION.--Lat 35°15'42", long 80°43'08", Mecklenburg County, Hydrologic Unit 03040105, Reedy Creek Park Environmental Center, Rocky River Road, Charlotte, NC.

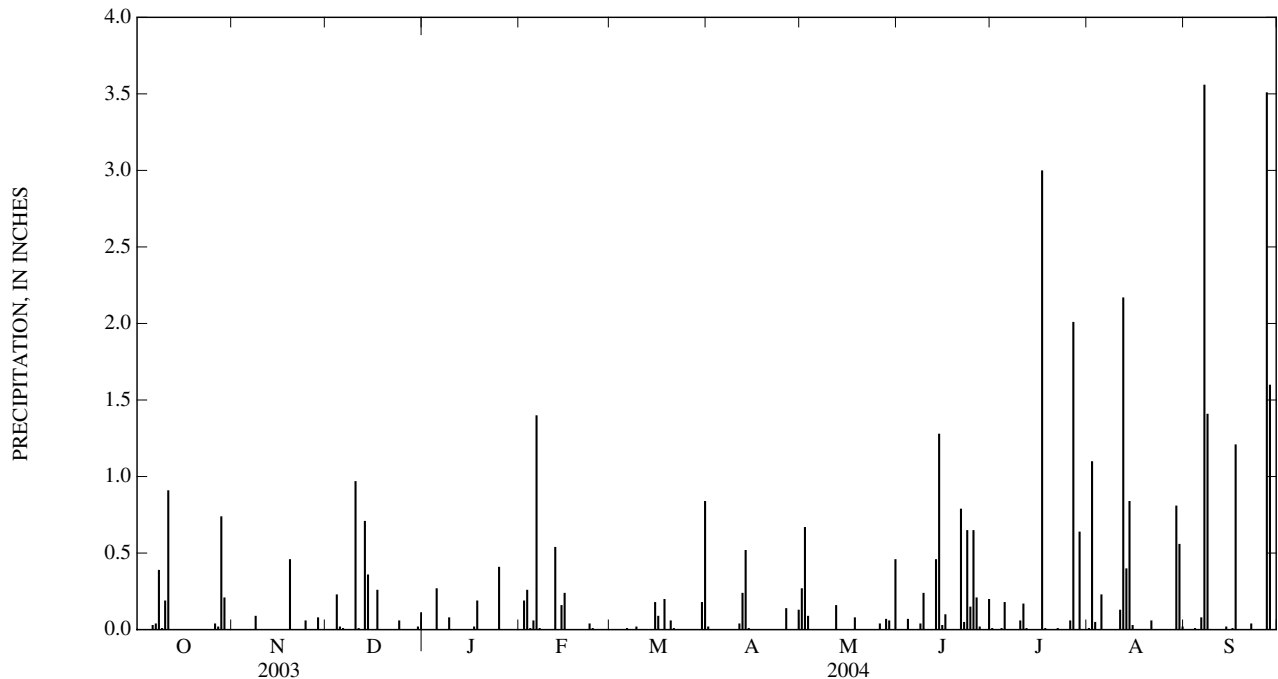
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.27	0.00	0.01	0.01	0.00
2	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.67	0.00	0.00	1.10	0.00
3	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.09	0.00	0.00	0.05	0.00
4	0.00	0.00	0.23	0.00	0.01	0.00	0.00	0.00	0.07	0.01	0.00	0.01
5	0.00	0.00	0.02	0.27	0.06	0.00	0.00	0.00	0.00	0.18	0.23	0.00
6	0.03	0.00	0.01	0.00	1.40	0.01	0.00	0.00	0.00	0.00	0.00	0.08
7	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	3.56
8	0.39	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.41
9	0.01	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.24	0.00	0.00	0.00
10	0.19	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
11	0.91	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.17	0.13	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	0.24	0.16	0.00	0.01	2.17	0.00
13	0.00	0.00	0.71	0.00	0.00	0.00	0.52	0.00	0.46	0.00	0.40	0.00
14	0.00	0.00	0.36	0.00	0.16	0.00	0.01	0.00	1.28	0.00	0.84	0.02
15	0.00	0.00	0.00	0.00	0.24	0.18	0.00	0.00	0.03	0.00	0.03	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.10	0.00	0.00	0.01
17	0.00	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.21
18	0.00	0.00	0.00	0.19	0.00	0.20	0.00	0.08	0.00	0.01	0.00	0.00
19	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.79	0.00	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.04
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.65	0.00	0.00	0.00
24	0.00	0.06	0.06	0.00	0.01	0.00	0.00	0.00	0.15	0.00	0.00	0.00
25	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.14	0.04	0.21	0.06	0.00	0.00
27	0.02	0.00	---	0.00	0.00	0.00	0.00	0.00	0.02	2.01	0.00	3.51
28	0.74	0.08	---	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	1.60
29	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.64	0.81	0.00
30	0.00	0.00	0.02	0.00	---	0.18	0.13	0.00	0.20	0.00	0.56	0.00
31	0.00	---	0.00	0.00	---	0.84	---	0.46	---	0.00	0.02	---
TOTAL	2.58	0.69	---	0.97	---	1.59	1.10	1.90	4.94	6.17	6.41	11.45



351302080412701 CRN23

LOCATION.--Lat 35°13'01", long 80°41'27", Mecklenburg County, Hydrologic Unit 03040105, Charles T. Myers golf course, Harrisburg Road, Charlotte, NC.

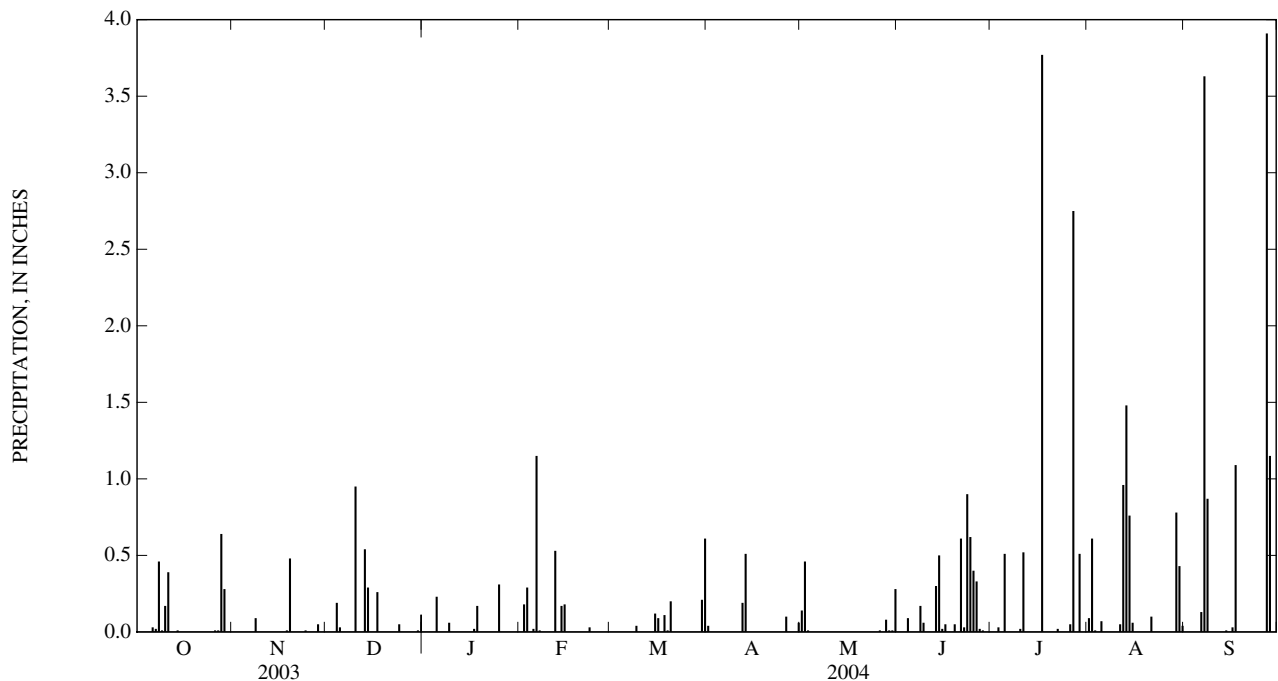
PERIOD OF RECORD.--October 1988 to current year. Records for period October 1988 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14	0.00	0.00	0.09	0.00
2	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.46	0.00	0.00	0.61	0.00
3	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.01	0.00	0.03	0.01	0.00
4	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
5	0.00	0.00	0.03	0.23	0.02	0.00	0.00	0.00	0.00	0.51	0.07	0.00
6	0.03	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.13
7	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	3.63
8	0.46	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.87
9	0.01	0.00	0.00	0.06	0.00	0.04	0.00	0.00	0.06	0.00	0.00	0.00
10	0.17	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
11	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.05	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.19	0.00	0.00	0.00	0.96	0.00
13	0.00	0.00	0.54	0.00	0.00	0.00	0.51	0.00	0.30	0.00	1.48	0.00
14	0.01	0.00	0.29	0.00	0.17	0.00	0.00	0.00	0.50	0.00	0.76	0.01
15	0.00	0.00	0.00	0.00	0.18	0.12	0.00	0.00	0.02	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.05	0.00	0.00	0.03
17	0.00	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.00	3.77	0.00	1.09
18	0.00	0.01	0.00	0.17	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.48	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.10	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00
23	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.90	0.00	0.00	0.00
24	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00
25	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	---	0.00	0.10	0.01	0.33	0.05	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.75	0.00	3.91
28	0.64	0.05	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.00	1.15
29	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.51	0.78	0.00
30	0.00	0.00	0.01	0.00	---	0.21	0.06	0.01	0.00	0.00	0.43	0.00
31	0.00	---	0.00	0.00	---	0.61	---	0.28	---	0.00	0.04	---
TOTAL	2.03	0.64	2.32	0.79	---	1.39	0.90	1.00	4.16	8.18	5.44	10.82



352432080473745 CRN26

LOCATION.--Lat 35°24'33", long 80°47'38", Mecklenburg County, Hydrologic Unit 03040105, Bradford Airfield, Huntersville-Concord Road, Huntersville, NC.

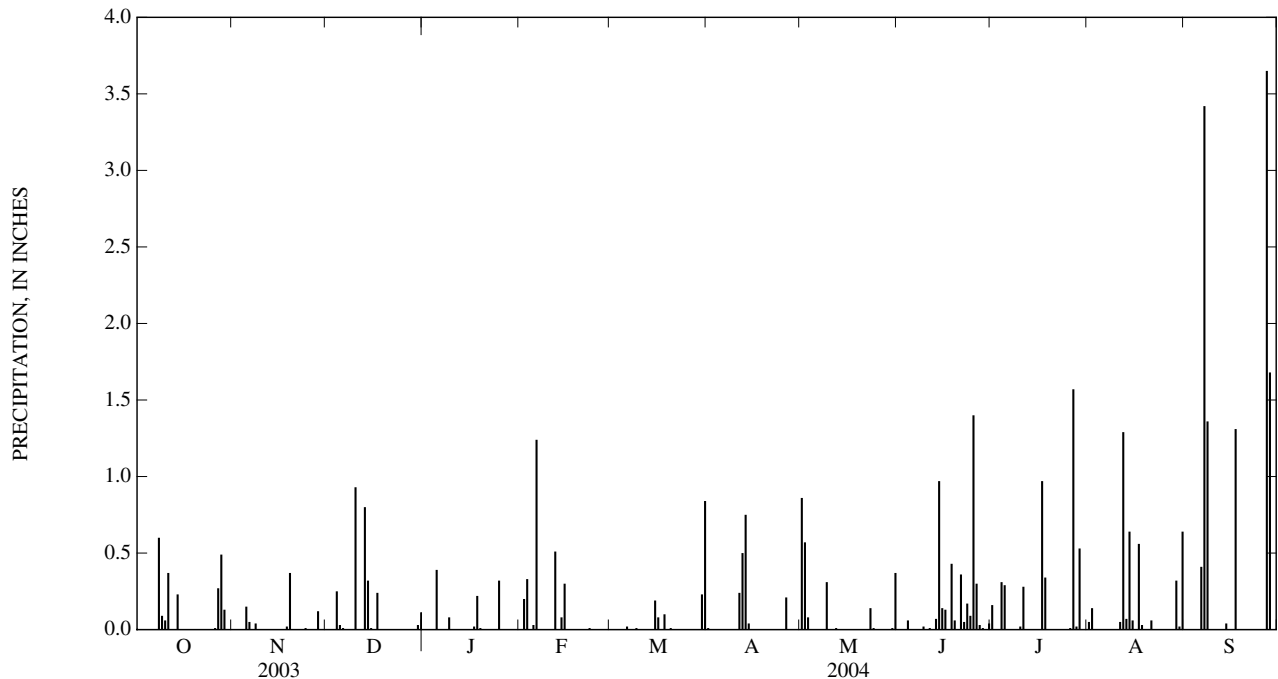
PERIOD OF RECORD.--June 1994 to current year. Records for period June 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.86	0.00	0.16	0.05	0.00
2	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.57	0.00	0.00	0.14	0.00
3	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.08	0.00	0.00	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.06	0.31	0.00	0.00
5	0.00	0.15	0.03	0.39	0.03	0.00	0.00	0.00	0.00	0.29	0.00	0.00
6	0.00	0.05	0.01	0.00	1.24	0.02	0.00	0.00	0.00	0.00	0.00	0.41
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42
8	0.60	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36
9	0.09	0.00	0.00	0.08	0.00	0.01	0.00	0.31	0.02	0.00	0.00	0.00
10	0.06	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
11	0.37	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.01	0.28	0.05	0.00
12	0.00	0.00	0.00	0.00	0.51	0.00	0.50	0.01	0.00	0.00	1.29	0.00
13	0.00	0.00	0.80	0.00	0.00	0.00	0.75	0.00	0.07	0.00	0.07	0.00
14	0.23	0.00	0.32	0.00	0.08	0.00	0.04	0.00	0.97	0.00	0.64	0.04
15	0.00	0.00	0.01	0.00	0.30	0.19	0.00	0.00	0.14	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.13	0.00	0.00	0.00
17	0.00	0.00	0.24	0.02	0.00	0.00	0.00	0.00	0.00	0.97	0.56	1.31
18	0.00	0.02	0.00	0.22	0.00	0.10	0.00	0.00	0.43	0.34	0.03	0.00
19	0.00	0.37	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.14	0.17	0.00	0.00	0.00
24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.00	0.00	0.00
25	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	---	0.00	0.21	0.00	0.30	0.01	0.00	0.00
27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.57	0.00	3.65
28	0.49	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	1.68
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.32	0.00
30	0.00	0.00	0.03	0.00	---	0.23	0.00	0.01	0.04	0.00	0.02	0.00
31	0.00	---	0.00	0.00	---	0.84	---	0.37	---	0.00	0.64	---
TOTAL	2.25	0.76	2.62	1.04	---	1.48	1.75	2.36	4.34	4.50	3.93	11.87



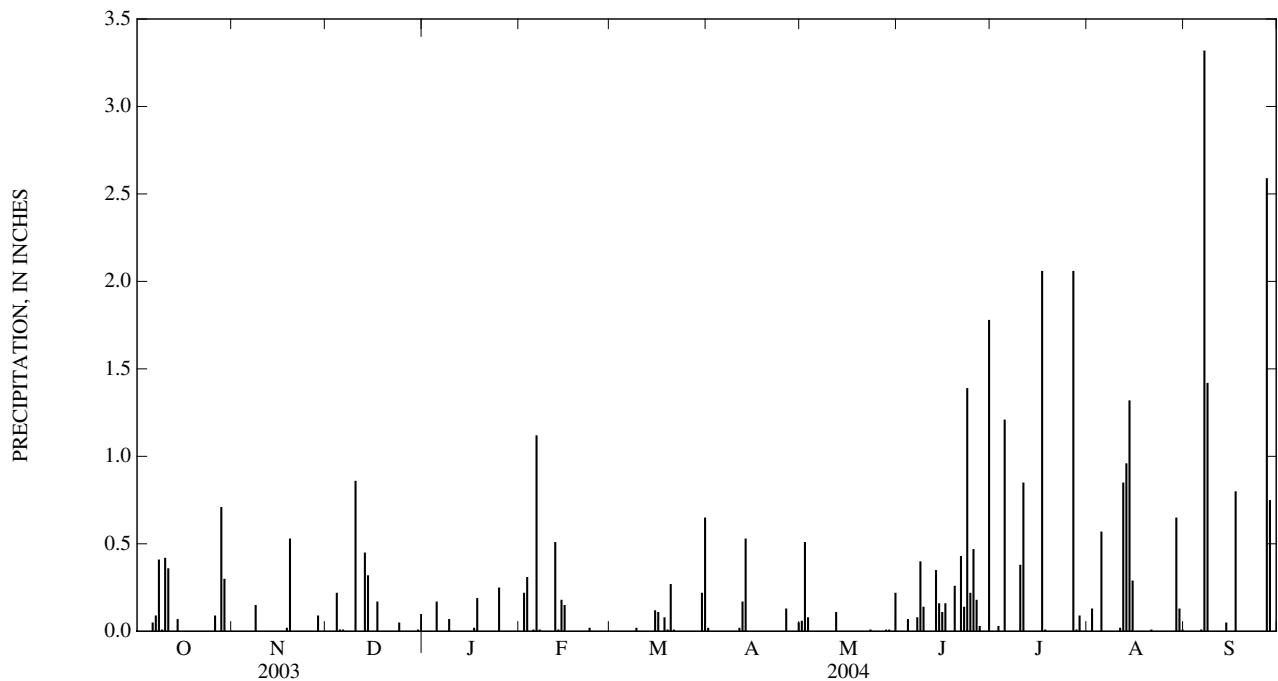
351218080331345 CRN29

LOCATION.--Lat 35°12'20", long 80°33'08", Mecklenburg County, Hydrologic Unit 03040105, Clear Creek Boy Scout Camp, Belt Road, Midland, NC.
 PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.
 GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.51	0.00	0.00	0.13	0.00
3	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.08	0.00	0.03	0.00	0.00
4	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
5	0.00	0.00	0.01	0.17	0.01	0.00	0.00	0.00	0.00	1.21	0.57	0.00
6	0.05	0.00	0.01	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.01
7	0.09	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.08	0.00	0.00	3.32
8	0.41	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	1.42
9	0.01	0.00	0.00	0.07	0.00	0.02	0.00	0.00	0.14	0.00	0.00	0.00
10	0.42	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00
11	0.36	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.85	0.02	0.00
12	0.00	0.00	0.00	0.00	0.51	0.00	0.17	0.11	0.00	0.00	0.85	0.00
13	0.00	0.00	0.45	0.00	0.01	0.00	0.53	0.00	0.35	0.00	0.96	0.00
14	0.07	0.00	0.32	0.00	0.18	0.00	0.00	0.00	0.16	0.00	1.32	0.05
15	0.00	0.00	0.00	0.00	0.15	0.12	0.00	0.00	0.11	0.00	0.29	0.00
16	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.16	0.00	0.00	0.00
17	0.00	0.00	0.17	0.02	0.00	0.00	0.00	0.00	0.00	2.06	0.00	0.80
18	0.00	0.02	0.00	0.19	0.00	0.08	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	0.53	0.00	0.00	0.00	0.01	0.00	0.00	0.26	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.43	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	1.39	0.00	0.00	0.00
24	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00
25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00
26	0.09	0.00	0.00	0.00	---	0.00	0.13	0.00	0.18	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.06	0.00	2.59
28	0.71	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.75
29	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.09	0.65	0.00
30	0.00	0.00	0.01	0.00	---	0.22	0.05	0.00	1.78	0.00	0.13	0.00
31	0.00	---	0.00	0.00	---	0.65	---	0.22	---	0.00	0.01	---
TOTAL	2.51	0.79	2.10	0.70	---	1.49	0.92	1.01	6.37	6.70	4.94	8.94



351455080374445 CRN30

LOCATION.--Lat 35°14'56", long 80°37'43", Mecklenburg County, Hydrologic Unit 03040105, private residence, Peach Orchard Road, Mint Hill, NC.

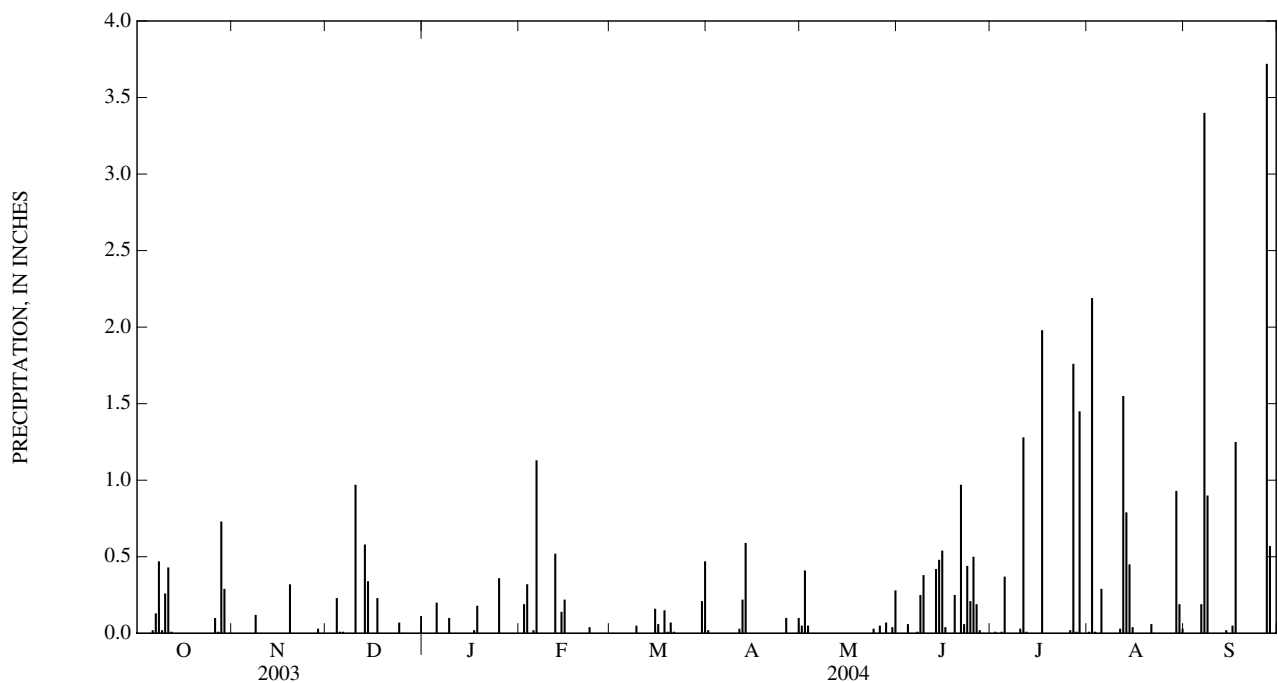
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.00	0.00	0.01	---
2	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.41	0.00	0.01	2.19	---
3	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.05	0.00	0.00	0.01	---
4	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00
5	0.00	0.00	0.01	0.20	0.02	0.00	0.00	0.00	0.00	0.37	0.29	0.00
6	0.02	0.00	0.01	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.19
7	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	3.40
8	0.47	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.90
9	0.02	0.00	0.00	0.10	0.00	0.05	0.00	0.00	0.38	0.00	0.00	0.00
10	0.26	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
11	0.43	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.28	0.03	0.00
12	0.01	0.00	0.00	0.00	0.52	0.00	0.22	---	0.00	0.01	1.55	0.00
13	0.00	0.00	0.58	0.00	0.00	0.00	0.59	---	0.42	0.00	0.79	0.00
14	0.00	0.00	0.34	0.00	0.14	0.00	0.00	---	0.48	0.00	0.45	0.02
15	0.00	0.00	0.00	0.00	0.22	0.16	0.00	---	0.54	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	---	0.04	0.00	0.00	0.05
17	0.00	0.00	0.23	0.02	0.00	0.00	0.00	---	0.00	1.98	0.00	1.25
18	0.00	0.00	0.00	0.18	0.00	0.15	0.00	---	0.00	0.00	0.00	0.00
19	0.00	0.32	0.00	0.00	0.00	0.01	0.00	---	0.25	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.97	0.00	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.44	0.00	0.00	0.00
24	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.03	0.21	0.00	0.00	0.00
25	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00
26	0.10	0.00	0.00	0.00	---	0.00	0.10	0.05	0.19	0.02	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.76	0.00	3.72
28	0.73	0.03	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.01	0.00	0.57
29	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.93	0.00
30	0.00	0.00	0.00	0.00	---	0.21	0.10	0.04	0.00	0.00	0.19	0.00
31	0.00	---	0.00	0.00	---	0.47	---	0.28	---	0.00	0.03	---
TOTAL	2.47	0.47	2.44	0.86	---	1.19	1.06	---	4.82	6.93	6.57	---



351028080385545 CRN32

LOCATION.--Lat 35°10'29", long 80°38'54", Mecklenburg County, Hydrologic Unit 03040105, Bain Elementary School, Bain School Road, Mint Hill, NC.

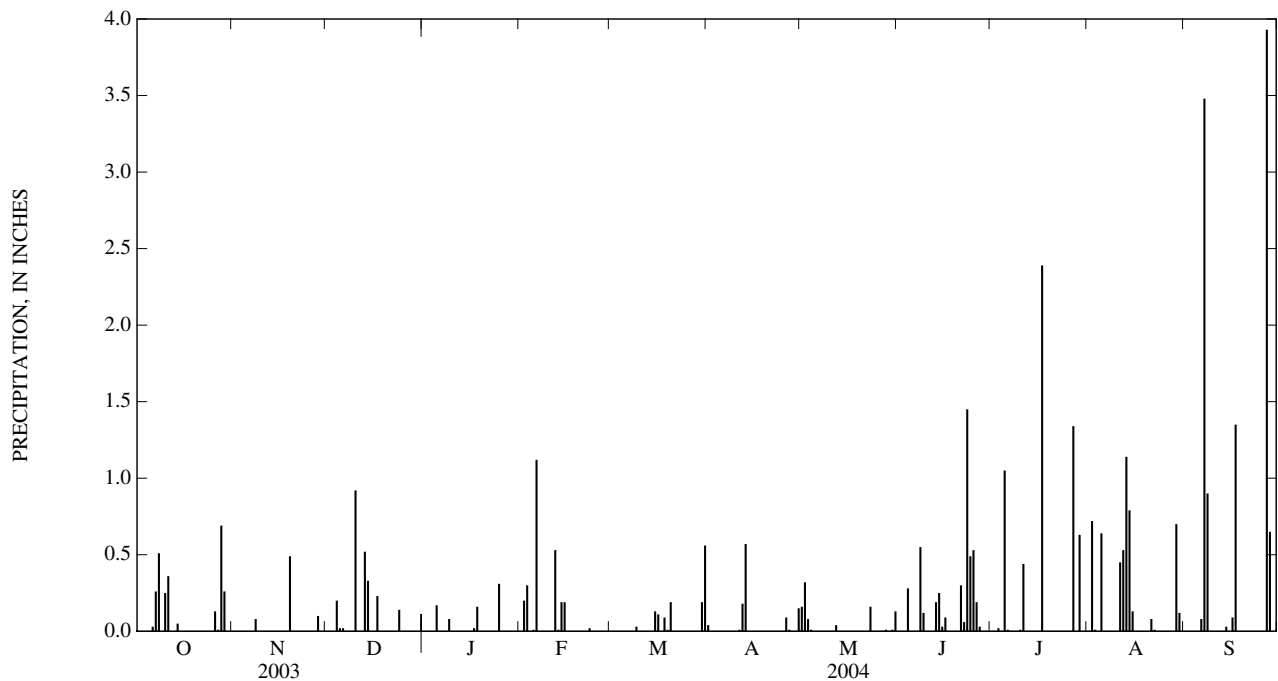
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.16	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.32	0.00	0.00	0.72	0.00
3	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.08	0.00	0.02	0.01	0.00
4	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.01	0.28	0.00	0.00	0.00
5	0.00	0.00	0.02	0.17	0.01	0.00	0.00	0.00	0.00	1.05	0.64	0.00
6	0.03	0.00	0.02	0.00	1.12	0.00	0.00	0.00	0.00	0.01	0.00	0.08
7	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.48
8	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.90
9	0.00	0.00	0.00	0.08	0.00	0.03	0.00	0.00	0.12	0.00	0.00	0.00
10	0.25	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.36	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.44	0.45	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.18	0.04	0.00	0.00	0.53	0.00
13	0.00	0.00	0.52	0.00	0.01	0.00	0.57	0.00	0.19	0.00	1.14	0.00
14	0.05	0.00	0.33	0.00	0.19	0.00	0.00	0.00	0.25	0.00	0.79	0.03
15	0.00	0.00	0.00	0.00	0.19	0.13	0.00	0.00	0.03	0.00	0.13	0.00
16	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.09	0.00	0.00	0.09
17	0.00	0.00	0.23	0.02	0.00	0.00	0.00	0.00	0.00	2.39	0.00	1.35
18	0.00	0.00	0.00	0.16	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.49	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.08	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.16	1.45	0.00	0.00	0.00
24	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00
25	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00
26	0.13	0.00	0.00	0.00	---	0.00	0.09	0.00	0.19	0.00	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	1.34	0.00	3.93
28	0.69	0.10	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.65
29	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.70	0.00
30	0.00	0.00	0.00	0.00	---	0.19	0.15	0.01	0.00	0.00	0.12	0.00
31	0.00	---	0.00	0.00	---	0.56	---	0.13	---	0.00	0.00	---
TOTAL	2.55	0.67	2.38	0.74	---	1.31	1.05	0.92	4.56	5.89	5.32	10.51



352000080414645 CRN33

LOCATION.--Lat 35°20'07", long 80°41'51", Mecklenburg County, Hydrologic Unit 03040105, Mallard Creek WWTP, U.S. Highway 29 North, Charlotte, NC.

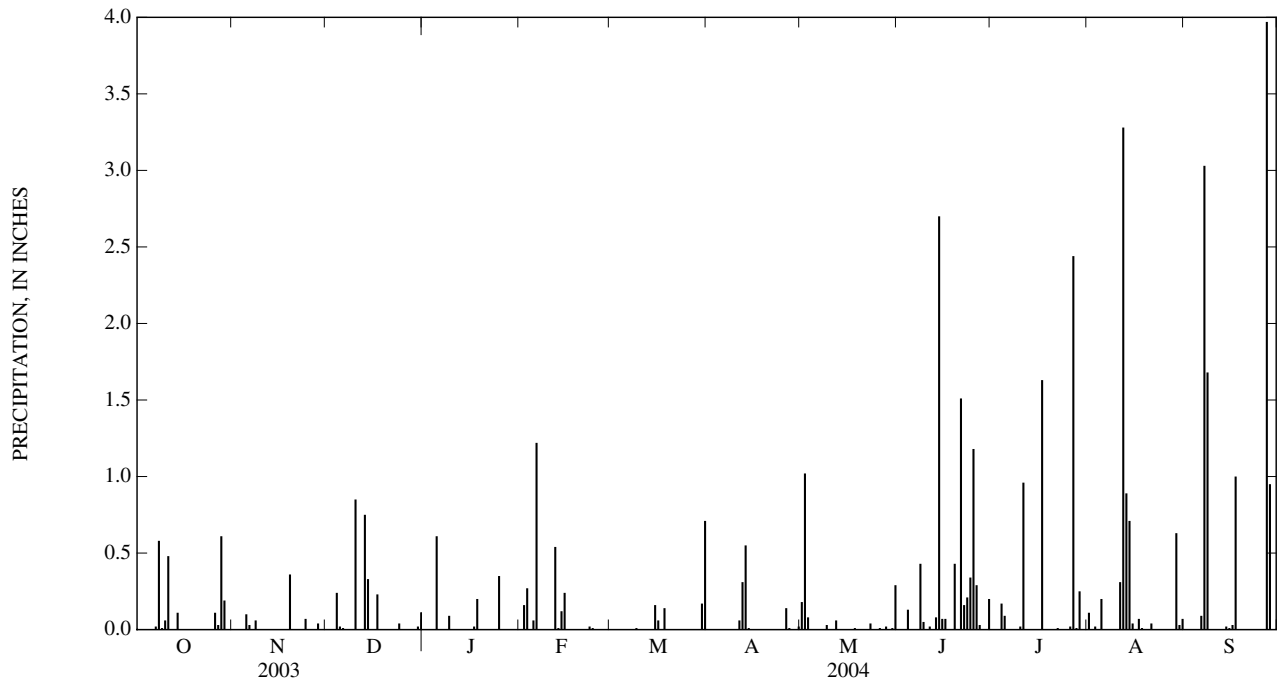
PERIOD OF RECORD.--December 1995 to current year. Records for period December 1995 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.11	0.00
2	0.00	0.00	0.00	0.00	0.16	0.00	0.00	1.02	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.08	0.00	0.00	0.02	0.00
4	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.13	0.17	0.00	0.00
5	0.00	0.10	0.02	0.61	0.06	0.00	0.00	0.00	0.00	0.09	0.20	0.00
6	0.00	0.03	0.01	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.09
7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03
8	0.58	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	1.68
9	0.01	0.00	0.00	0.09	0.00	0.01	0.00	0.03	0.05	0.00	0.00	0.00
10	0.06	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
11	0.48	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.02	0.96	0.31	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	0.31	0.06	0.00	0.00	3.28	0.00
13	0.00	0.00	0.75	0.00	0.01	0.00	0.55	0.00	0.08	0.00	0.89	0.00
14	0.11	0.00	0.33	0.00	0.12	0.00	0.01	0.00	2.70	0.00	0.71	0.02
15	0.00	0.00	0.00	0.00	0.24	0.16	0.00	0.00	0.07	0.00	0.04	0.01
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.07	0.00	0.00	0.03
17	0.00	0.00	0.23	0.02	0.00	0.00	0.00	0.00	0.00	1.63	0.07	1.00
18	0.00	0.00	0.00	0.20	0.00	0.14	0.00	0.01	0.00	0.00	0.01	0.00
19	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	0.00	0.04	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.04	0.21	0.00	0.00	0.00
24	0.00	0.07	0.04	0.00	0.01	0.00	0.00	0.00	0.34	0.00	0.00	0.00
25	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00
26	0.11	0.00	0.00	0.00	---	0.00	0.14	0.01	0.29	0.02	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	2.44	0.00	3.97
28	0.61	0.04	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.95
29	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.63	0.00
30	0.00	0.00	0.02	0.00	---	0.17	0.02	0.01	0.20	0.00	0.03	0.00
31	0.00	---	0.00	0.00	---	0.71	---	0.29	---	0.00	0.07	---
TOTAL	2.20	0.66	2.49	1.27	---	1.25	1.10	1.75	7.90	5.60	6.41	10.78



352921080473245 CRN36

LOCATION.--Lat 35°29'22", long 80°47'32", Mecklenburg County, Hydrologic Unit 03040105, Westfork Substation, Shearer Road, Davidson, NC.

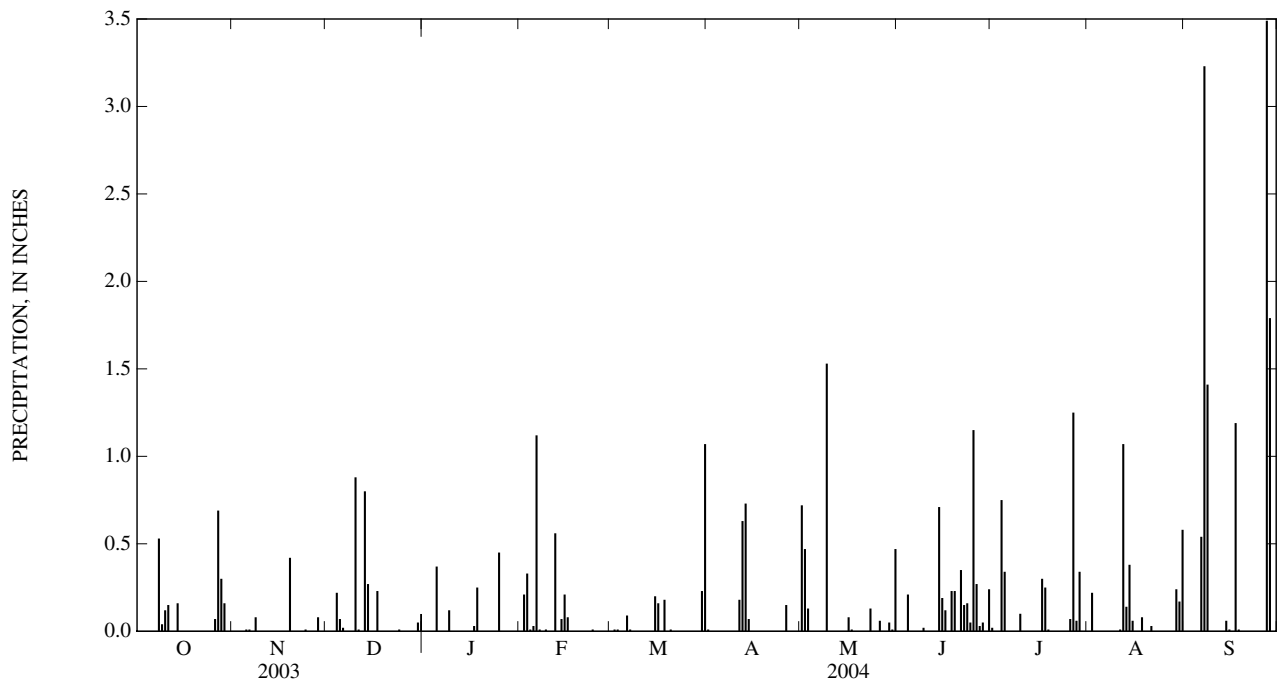
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.72	0.00	0.02	0.00	0.00
2	0.00	0.00	0.00	0.00	0.21	0.01	0.00	0.47	0.00	0.00	0.22	0.00
3	0.00	0.00	0.00	0.00	0.33	0.01	0.00	0.13	0.00	0.00	0.00	0.00
4	0.00	0.00	0.22	0.00	0.01	0.00	0.00	0.00	0.21	0.75	0.00	0.00
5	0.00	0.01	0.07	0.37	0.03	0.00	0.00	0.00	0.00	0.34	0.00	0.00
6	0.00	0.01	0.02	0.00	1.12	0.09	0.00	0.00	0.00	0.00	0.00	0.54
7	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	3.23
8	0.53	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41
9	0.04	0.00	0.00	0.12	0.01	0.00	0.00	1.53	0.02	0.00	0.00	0.00
10	0.12	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
11	0.15	0.00	0.01	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.01	0.00
12	0.00	0.00	0.00	0.00	0.56	0.00	0.63	0.00	0.00	0.00	1.07	0.00
13	0.00	0.00	0.80	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.14	0.00
14	0.16	0.00	0.27	0.00	0.07	0.00	0.07	0.00	0.71	0.00	0.38	0.06
15	0.00	0.00	0.00	0.00	0.21	0.20	0.00	0.00	0.19	0.00	0.06	0.01
16	0.00	0.00	0.00	0.00	0.08	0.16	0.00	0.08	0.12	0.00	0.00	0.00
17	0.00	0.00	0.23	0.03	0.00	0.00	0.00	0.01	0.00	0.30	0.00	1.19
18	0.00	0.00	0.00	0.25	0.00	0.18	0.00	0.00	0.23	0.25	0.08	0.01
19	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.03	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.16	0.00	0.00	0.00
24	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.05	0.00	0.00	0.00
25	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00
26	0.07	0.00	0.00	0.00	---	0.00	0.15	0.06	0.27	0.07	0.00	0.00
27	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.25	0.00	3.49
28	0.30	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.00	1.79
29	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.34	0.24	0.00
30	0.00	0.00	0.05	0.00	---	0.23	0.00	0.01	0.24	0.00	0.17	0.00
31	0.00	---	0.00	0.00	---	1.07	---	0.47	---	0.00	0.58	---
TOTAL	2.22	0.61	2.56	1.22	---	1.97	1.77	3.66	4.16	3.49	2.98	11.73



350634080405245 CRN39

LOCATION.--Lat 35°06'35", long 80°40'52", Mecklenburg County, Hydrologic Unit 03040105, private residence, Mount Harmony Church Road, Matthews, NC.

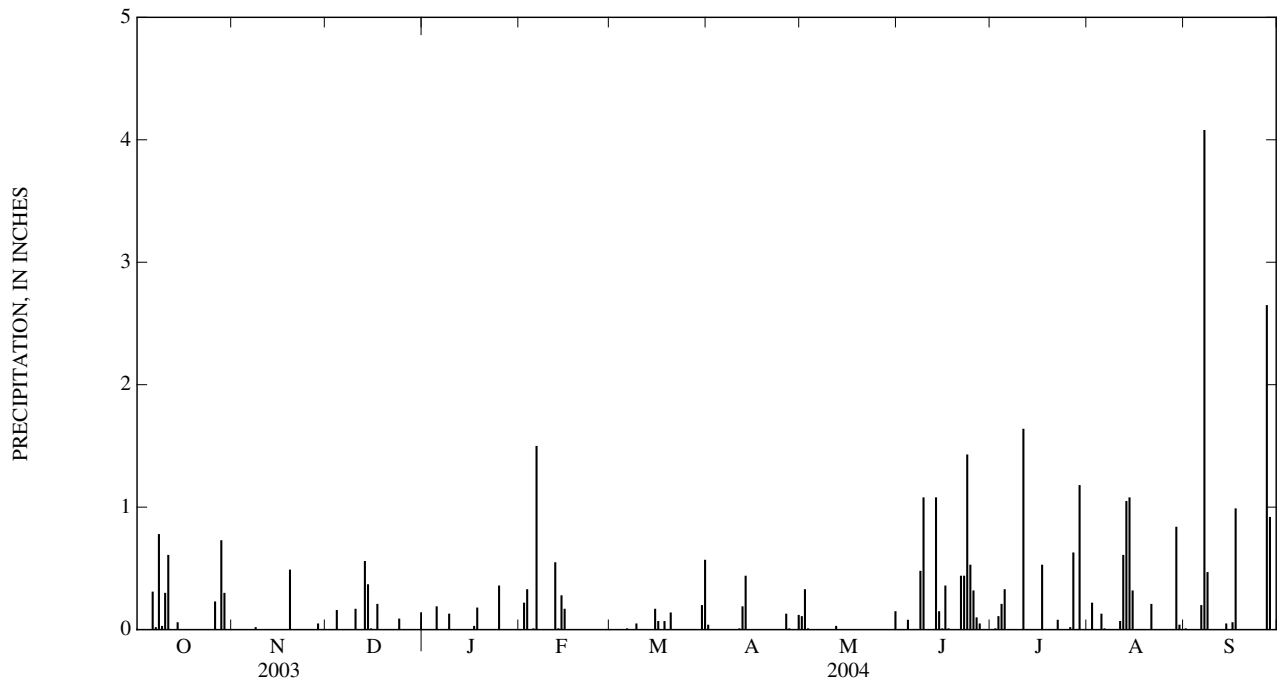
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11	0.00	0.00	0.00	0.01
2	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.33	0.00	0.01	0.22	0.00
3	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.01	0.00	0.11	0.00	0.00
4	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.08	0.21	0.00	0.00
5	0.00	0.00	0.00	0.19	0.01	0.00	0.00	0.00	0.00	0.33	0.13	0.00
6	0.31	0.00	0.00	0.00	1.50	0.01	0.00	0.00	0.00	0.00	0.01	0.20
7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.08
8	0.78	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.47
9	0.03	0.00	0.00	0.13	0.00	0.05	0.00	0.00	1.08	0.00	0.00	0.00
10	0.30	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.61	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.64	0.07	0.00
12	0.00	0.00	0.00	0.00	0.55	0.00	0.19	0.03	0.00	0.00	0.61	0.00
13	0.00	0.00	0.56	0.00	0.01	0.00	0.44	0.00	1.08	0.00	1.05	0.00
14	0.06	0.00	0.37	0.00	0.28	0.00	0.00	0.00	0.15	0.00	1.08	0.05
15	0.00	0.00	0.01	0.00	0.17	0.17	0.00	0.00	0.01	0.00	0.32	0.00
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.36	0.00	0.00	0.06
17	0.00	0.00	0.21	0.03	0.00	0.00	0.00	0.00	0.01	0.53	0.00	0.99
18	0.00	0.00	0.00	0.18	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.21	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.08	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	0.00	0.00	0.00
24	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00
25	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00
26	0.23	0.00	0.00	0.00	---	0.00	0.13	0.00	0.10	0.02	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.63	0.00	2.65
28	0.73	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
29	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.84	0.00
30	0.00	0.00	0.00	0.00	---	0.20	0.12	0.00	0.00	0.00	0.04	0.00
31	0.00	---	0.00	0.00	---	0.57	---	0.15	---	0.00	0.00	---
TOTAL	3.37	0.56	1.57	0.89	---	1.28	0.94	0.63	6.56	4.74	4.58	9.43



352718080484345 CRN44

LOCATION.--Lat 35°27'19", long 80°48'43", Mecklenburg County, Hydrologic Unit 03040105, private residence, Mayes Road, Huntersville, NC.

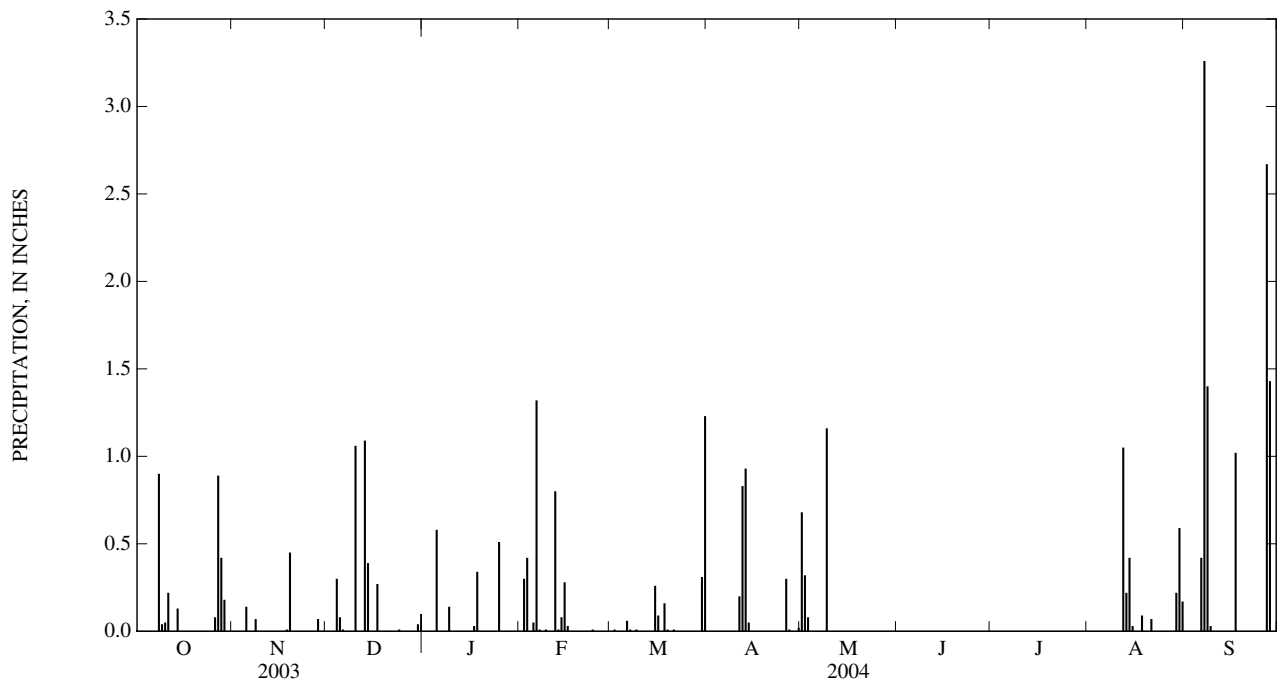
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	---	---	---	0.00
2	0.00	0.00	0.00	0.00	0.30	0.01	0.00	0.32	---	---	---	0.00
3	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.08	---	---	0.00	0.00
4	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
5	0.00	0.14	0.08	0.58	0.05	0.00	0.00	0.00	---	---	0.00	0.00
6	0.00	0.00	0.01	0.00	1.32	0.06	0.00	0.00	---	---	0.00	0.42
7	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	---	---	0.00	3.26
8	0.90	0.07	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	1.40
9	0.04	0.00	0.00	0.14	0.01	0.01	0.00	1.16	---	---	0.00	0.03
10	0.05	0.00	1.06	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
11	0.22	0.00	0.00	0.00	0.00	0.00	0.20	0.00	---	---	0.00	0.00
12	0.00	0.00	0.00	0.00	0.80	0.00	0.83	0.00	---	---	1.05	0.00
13	0.00	0.00	1.09	0.00	0.01	0.00	0.93	---	---	---	0.22	0.00
14	0.13	0.00	0.39	0.00	0.08	0.00	0.05	---	---	---	0.42	0.00
15	0.00	0.00	0.00	0.00	0.28	0.26	0.00	---	---	---	0.03	0.00
16	0.00	0.00	0.00	0.00	0.03	0.09	0.00	---	---	---	0.00	0.00
17	0.00	0.00	0.27	0.03	0.00	0.00	0.00	---	---	---	0.00	1.02
18	0.00	0.01	0.00	0.34	0.00	0.16	0.00	---	---	---	0.09	0.00
19	0.00	0.45	0.00	0.00	0.00	0.01	0.00	---	---	---	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	---	---	---	0.07	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00
24	0.00	0.00	0.01	0.00	0.01	0.00	0.00	---	---	---	0.00	0.00
25	0.00	0.00	0.00	0.51	0.00	0.00	0.00	---	---	---	0.00	0.00
26	0.08	0.00	0.00	0.00	---	0.00	0.30	---	---	---	0.00	0.00
27	0.89	0.00	0.00	0.00	0.00	0.00	0.01	---	---	---	0.00	2.67
28	0.42	0.07	0.00	0.00	0.00	0.00	0.00	---	---	---	0.00	1.43
29	0.18	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	0.22	0.00
30	0.00	0.00	0.04	0.00	---	0.31	0.02	---	---	---	0.59	0.00
31	0.00	---	0.00	0.00	---	1.23	---	---	---	---	0.17	---
TOTAL	2.91	0.74	3.25	1.60	---	2.16	2.34	---	---	---	---	10.23



352135080462045 CRN46

LOCATION.--Lat 35°21'35", long 80°46'20", Mecklenburg County, Hydrologic Unit 03040105, private residence, Johnston-Oehler Road, Charlotte, NC.

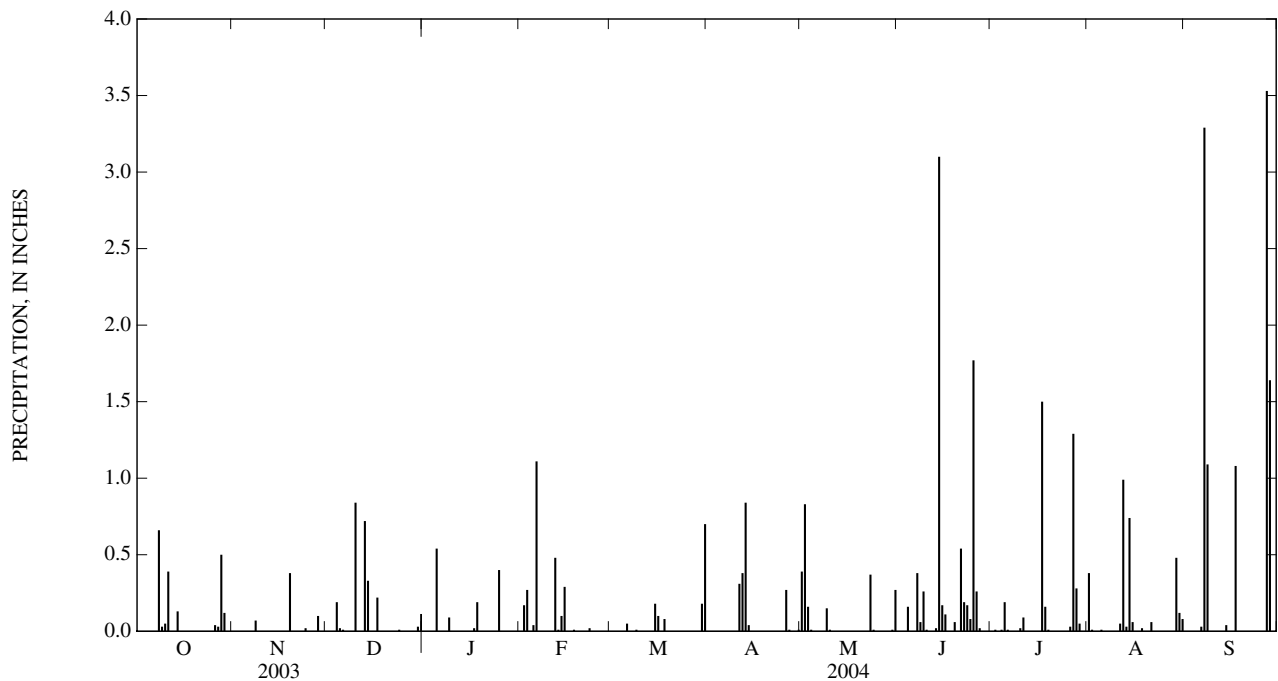
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.38	0.00
2	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.83	0.00	0.01	0.01	0.00
3	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.16	0.00	0.00	0.00	0.00
4	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.01	0.16	0.01	0.00	0.00
5	0.00	0.00	0.02	0.54	0.04	0.00	0.00	0.00	0.00	0.19	0.01	0.00
6	0.00	0.00	0.01	0.00	1.11	0.05	0.00	0.00	0.00	0.01	0.00	0.03
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	3.29
8	0.66	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	1.09
9	0.03	0.00	0.00	0.09	0.00	0.01	0.00	0.15	0.26	0.00	0.00	0.00
10	0.05	0.00	0.84	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.00
11	0.39	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.09	0.05	0.00
12	0.00	0.00	0.00	0.00	0.48	0.00	0.38	0.00	0.00	0.00	0.99	0.00
13	0.00	0.00	0.72	0.00	0.01	0.00	0.84	0.00	0.02	0.00	0.03	0.00
14	0.13	0.00	0.33	0.00	0.10	0.00	0.04	0.00	3.10	0.00	0.74	0.04
15	0.00	0.00	0.00	0.00	0.29	0.18	0.00	0.00	0.17	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.11	0.00	0.00	0.00
17	0.00	0.00	0.22	0.02	0.00	0.00	0.00	0.00	0.00	1.50	0.00	1.08
18	0.00	0.00	0.00	0.19	0.01	0.08	0.00	0.00	0.00	0.16	0.02	0.00
19	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.37	0.17	0.00	0.00	0.00
24	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.00
25	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	1.77	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.27	0.00	0.26	0.03	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.29	0.00	3.53
28	0.50	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	1.64
29	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.48	0.00
30	0.00	0.00	0.03	0.00	---	0.18	0.01	0.01	0.00	0.00	0.12	0.00
31	0.00	---	0.00	0.00	---	0.70	---	0.27	---	0.00	0.08	---
TOTAL	1.95	0.57	2.37	1.24	---	1.30	1.86	2.21	7.36	3.65	3.03	10.70



352623080434145 CRN63

LOCATION.--Lat 35°26'23", long 80°43'41", Mecklenburg County, Hydrologic Unit 03040105, Odell Elementary School, Odell School Road, Concord, NC.

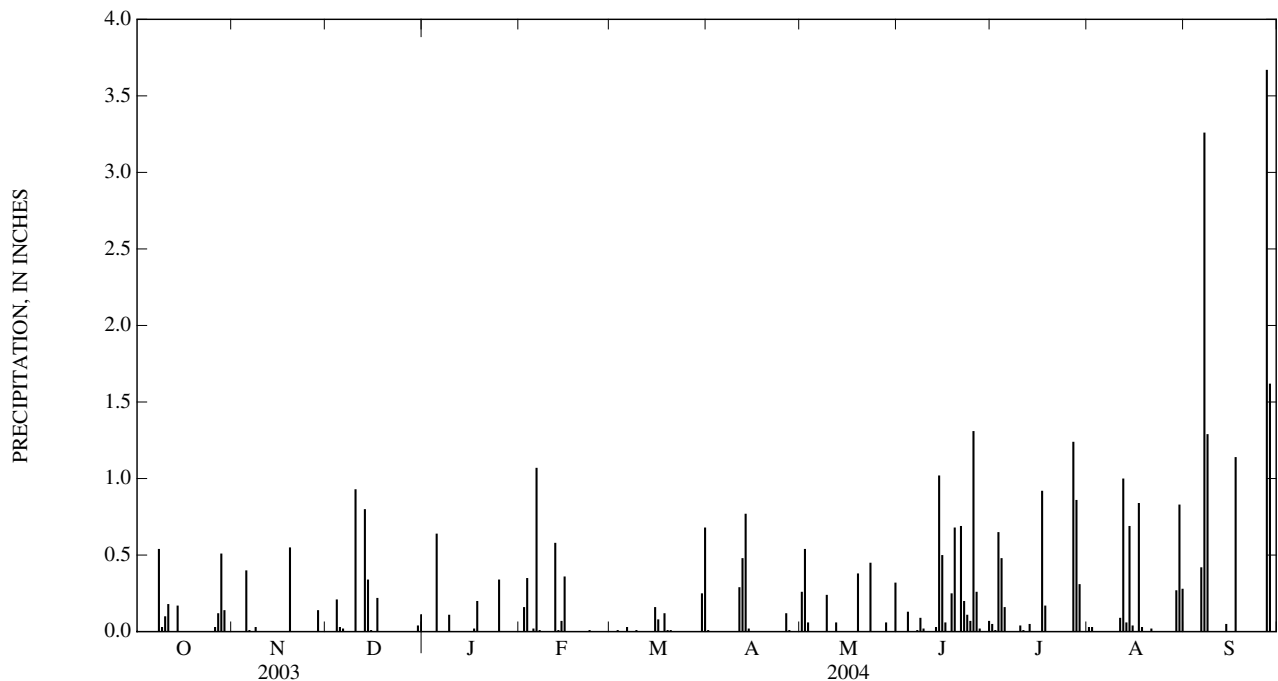
PERIOD OF RECORD.--October 2002 to September 2003. Records for October 2001 to September 2002 at site Odell Volunteer Fire Department, Concord, NC (station 352624080434645).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.26	0.00	0.05	0.03	0.00
2	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.54	0.00	0.01	0.03	0.00
3	0.00	0.00	0.00	0.00	0.35	0.01	0.00	0.06	0.00	0.65	0.00	0.00
4	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.13	0.48	0.00	0.00
5	0.00	0.40	0.03	0.64	0.02	0.00	0.00	0.00	0.00	0.16	0.00	0.00
6	0.00	0.01	0.02	0.00	1.07	0.03	0.00	0.00	0.00	0.00	0.00	0.42
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	3.26
8	0.54	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	1.29
9	0.03	0.00	0.00	0.11	0.00	0.01	0.00	0.24	0.02	0.00	0.00	0.00
10	0.10	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
11	0.18	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.01	0.09	0.00
12	0.00	0.00	0.00	0.00	0.58	0.00	0.48	0.06	0.00	0.00	1.00	0.00
13	0.00	0.00	0.80	0.00	0.01	0.00	0.77	0.00	0.03	0.05	0.06	0.00
14	0.17	0.00	0.34	0.00	0.07	0.00	0.02	0.00	1.02	0.00	0.69	0.05
15	0.00	0.00	0.01	0.00	0.36	0.16	0.00	0.00	0.50	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.06	0.00	0.00	0.00
17	0.00	0.00	0.22	0.02	0.00	0.00	0.00	0.00	0.00	0.92	0.84	1.14
18	0.00	0.00	0.00	0.20	0.00	0.12	0.00	0.00	0.25	0.17	0.03	0.00
19	0.00	0.55	0.00	0.00	0.00	0.01	0.00	0.38	0.68	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.02	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.45	0.11	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
25	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	---	0.00	0.12	0.00	0.26	0.00	0.00	0.00
27	0.12	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.24	0.00	3.67
28	0.51	0.14	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.86	0.00	1.62
29	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.27	0.00
30	0.00	0.00	0.04	0.00	---	0.25	0.00	0.00	0.07	0.00	0.83	0.00
31	0.00	---	0.00	0.00	---	0.68	---	0.32	---	0.00	0.28	---
TOTAL	1.82	1.13	2.60	1.31	---	1.36	1.70	2.37	5.52	4.95	4.21	11.45



351536080410645 CRN65

LOCATION.--Lat 35°15'36", long 80°41'06", Mecklenburg County, Hydrologic Unit 03040105, Reedy Creek Elementary School, Plaza Road Extension, Charlotte, NC.

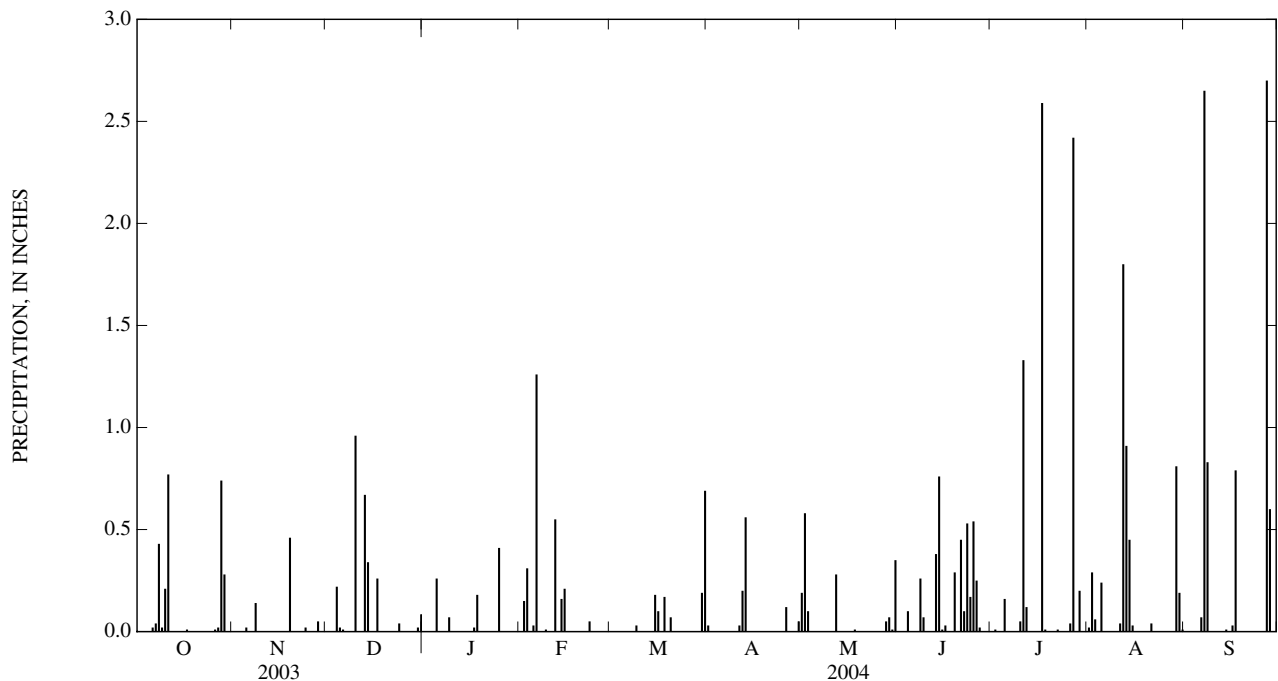
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.19	0.00	0.00	0.02	0.00
2	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.58	0.00	0.01	0.29	0.00
3	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.10	0.00	0.00	0.06	0.00
4	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
5	0.00	0.02	0.02	0.26	0.03	0.00	0.00	0.00	0.00	0.16	0.24	0.00
6	0.02	0.00	0.01	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.07
7	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.65
8	0.43	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.83
9	0.02	0.00	0.00	0.07	0.01	0.03	0.00	0.00	0.07	0.00	0.00	0.00
10	0.21	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
11	0.77	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.33	0.04	0.00
12	0.00	0.00	0.00	0.00	0.55	0.00	0.20	0.28	0.00	0.12	1.80	0.00
13	0.00	0.00	0.67	0.00	0.00	0.00	0.56	0.00	0.38	0.00	0.91	0.00
14	0.00	0.00	0.34	0.00	0.16	0.00	0.00	0.00	0.76	0.00	0.45	0.01
15	0.00	0.00	0.00	0.00	0.21	0.18	0.00	0.00	0.01	0.00	0.03	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.03	0.00	0.00	0.03
17	0.01	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.00	2.59	0.00	0.79
18	0.00	0.00	0.00	0.18	0.00	0.17	0.00	0.01	0.00	0.01	0.00	0.00
19	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.04	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.53	0.00	0.00	0.00
24	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
25	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	---	0.00	0.12	0.00	0.25	0.04	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.42	0.00	2.70
28	0.74	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.60
29	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.20	0.81	0.00
30	0.00	0.00	0.02	0.00	---	0.19	0.05	0.01	0.00	0.00	0.19	0.00
31	0.00	---	0.00	0.00	---	0.69	---	0.35	---	0.00	0.01	---
TOTAL	2.55	0.69	2.54	0.94	---	1.43	0.99	1.64	3.96	6.94	4.89	7.68



350857080383245 CRN67

LOCATION.--Lat 35°08'57", long 80°38'32", Mecklenburg County, Hydrologic Unit 03040105, Thompson Road, Mint Hill, NC.

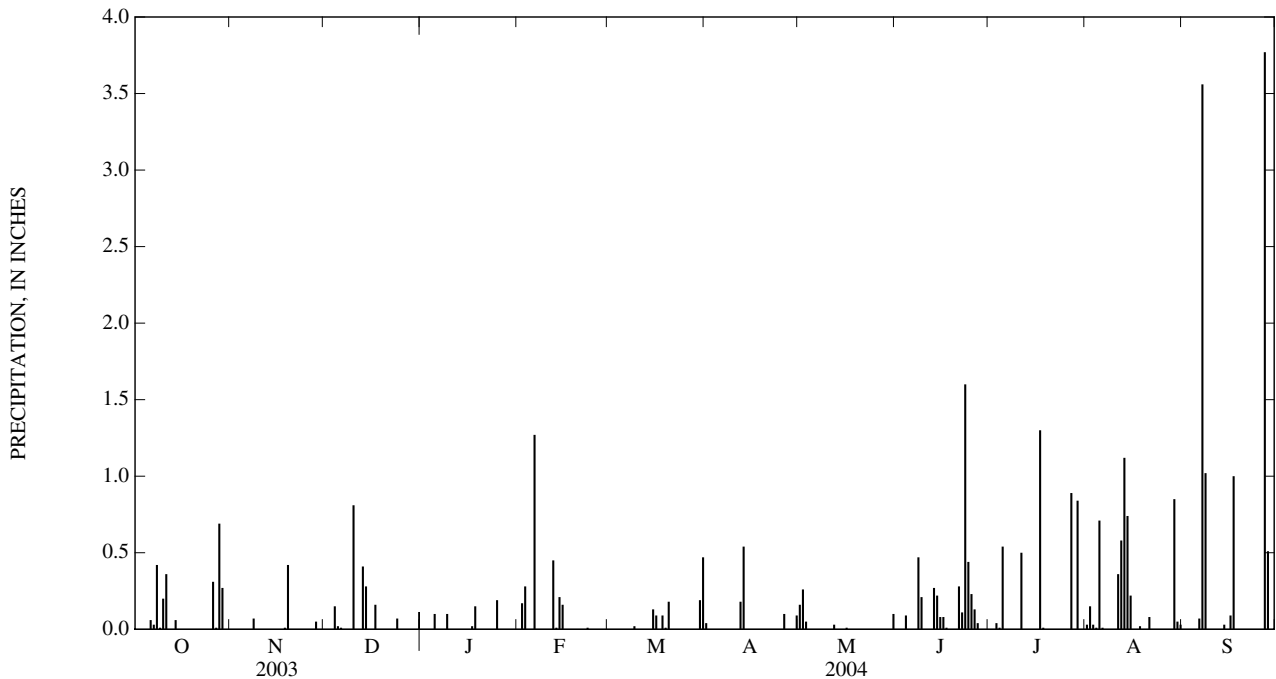
PERIOD OF RECORD.--November 2002 to September 2003

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.16	0.00	0.00	0.03	0.00
2	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.26	0.00	0.00	0.15	0.00
3	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.05	0.00	0.04	0.03	0.00
4	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.01	0.00
5	0.00	0.00	0.02	0.10	0.00	0.00	0.00	0.00	0.00	0.54	0.71	0.00
6	0.06	0.00	0.01	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.01	0.07
7	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.56
8	0.42	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	1.02
9	0.01	0.00	0.00	0.10	0.00	0.02	0.00	0.00	0.21	0.00	0.00	0.00
10	0.20	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.36	0.00
12	0.00	0.00	0.00	0.00	0.45	0.00	0.18	0.03	0.00	0.00	0.58	0.00
13	0.00	0.00	0.41	0.00	0.01	0.00	0.54	0.00	0.27	0.00	1.12	0.00
14	0.06	0.00	0.28	0.00	0.21	0.00	0.00	0.00	0.22	0.00	0.74	0.03
15	0.00	0.00	0.00	0.00	0.16	0.13	0.00	0.00	0.08	0.00	0.22	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.01	0.08	0.00	0.00	0.09
17	0.00	0.00	0.16	0.02	0.00	0.00	0.00	0.00	0.01	1.30	0.00	1.00
18	0.00	0.01	0.00	0.15	0.00	0.09	0.00	0.00	0.00	0.01	0.02	0.00
19	0.00	0.42	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.28	0.00	0.08	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.11	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	---	1.60	0.00	0.00	0.00
24	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
25	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00
26	0.31	0.00	0.00	0.00	---	0.00	0.10	0.00	0.13	0.00	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.89	0.00	3.77
28	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
29	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.85	0.00
30	0.00	0.00	0.00	0.00	---	0.19	0.09	0.00	0.00	0.00	0.05	0.00
31	0.00	---	0.00	0.00	---	0.47	---	0.10	---	0.00	0.03	---
TOTAL	2.42	0.55	1.91	0.56	---	1.18	0.95	---	4.26	4.13	4.99	10.05



351145080371945 CRN68

LOCATION.--Lat 35°11'45", long 80°37'20", Mecklenburg County, Hydrologic Unit 03040105, White Farm, Bartlett Road, Mint Hill, NC.

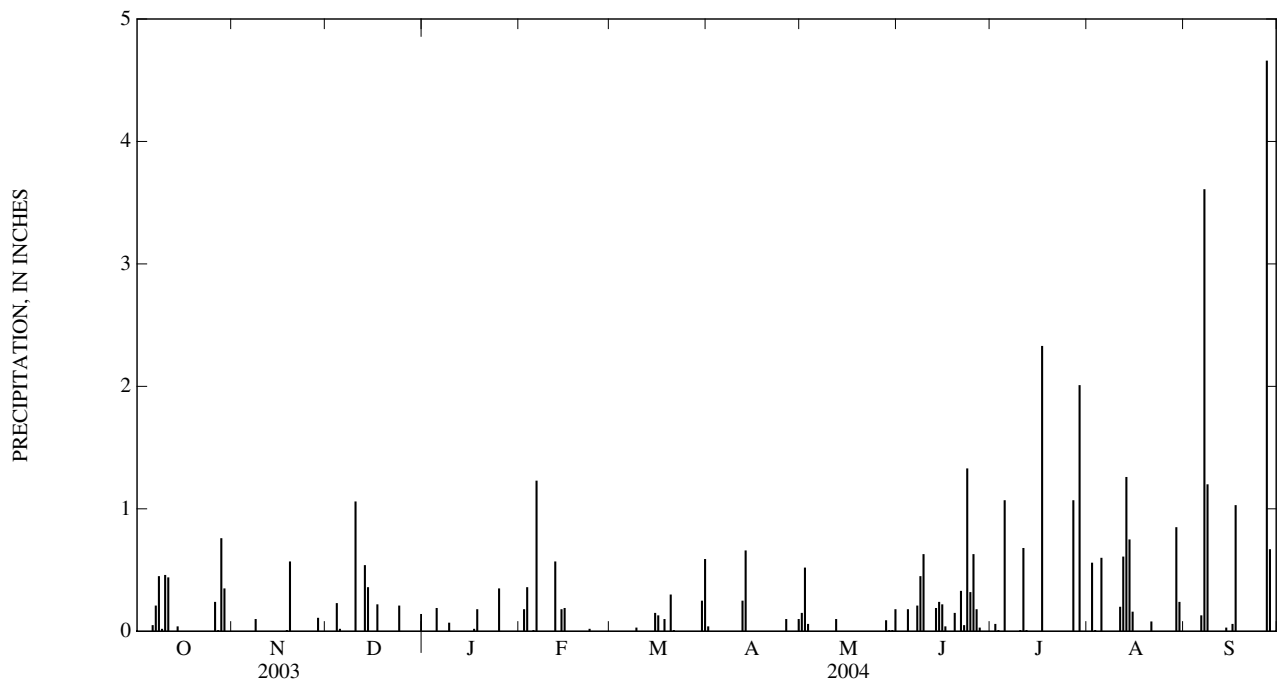
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.52	0.00	0.06	0.56	0.00
3	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.06	0.00	0.01	0.01	0.00
4	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00
5	0.00	0.00	0.02	0.19	0.01	0.00	0.00	0.00	0.00	1.07	0.60	0.00
6	0.05	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.13
7	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	3.61
8	0.45	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	1.20
9	0.02	0.00	0.00	0.07	0.00	0.03	0.00	0.00	0.63	0.00	0.00	0.00
10	0.46	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.20	0.00
12	0.00	0.00	0.00	0.00	0.57	0.00	0.25	0.10	0.00	0.01	0.61	0.00
13	0.00	0.00	0.54	0.00	0.00	0.00	0.66	0.00	0.19	0.00	1.26	0.00
14	0.04	0.00	0.36	0.00	0.18	0.00	0.00	0.00	0.24	0.00	0.75	0.03
15	0.00	0.00	0.00	0.00	0.19	0.15	0.00	0.00	0.22	0.00	0.16	0.00
16	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.04	0.00	0.00	0.06
17	0.00	0.00	0.22	0.02	0.00	0.00	0.00	0.00	0.00	2.33	0.00	1.03
18	0.00	0.01	0.00	0.18	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	---	0.33	0.00	0.08	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.05	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	---	1.33	0.00	0.00	0.00
24	0.00	0.00	0.21	0.00	0.00	0.00	0.00	---	0.32	0.00	0.00	0.00
25	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00
26	0.24	0.00	0.00	0.00	---	0.00	0.10	0.00	0.18	0.00	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.07	0.00	4.66
28	0.76	0.11	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.67
29	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	2.01	0.85	0.00
30	0.00	0.00	0.00	0.00	---	0.25	0.10	0.01	0.00	0.00	0.24	0.00
31	0.00	---	0.00	0.00	---	0.59	---	0.18	---	0.00	0.00	---
TOTAL	3.03	0.79	2.64	0.81	---	1.56	1.15	---	5.18	7.25	5.32	11.39



354822080521501 PRECIPITATION AT STATESVILLE, NC

LOCATION.--Lat 35°48'37", long 80°52'51", Iredell County, Hydrologic Unit 03040102, Statesville WWTP, Sunset Hill Road, Statesville, NC.

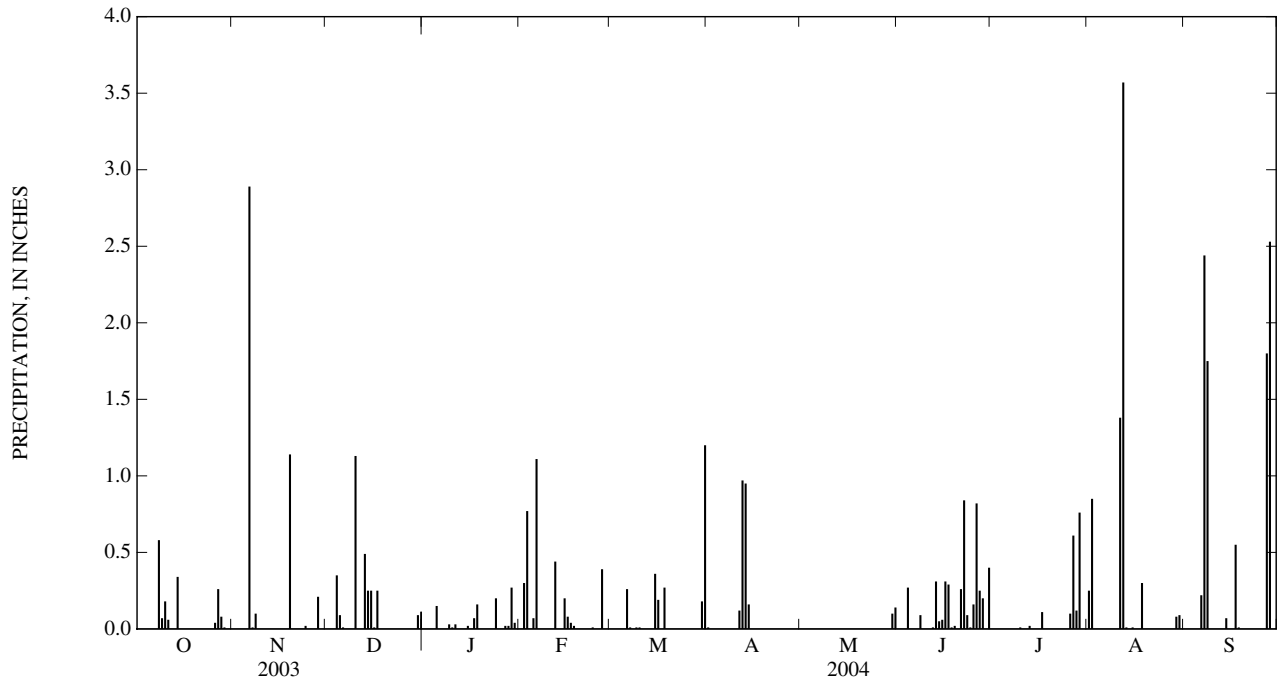
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	---	0.00	0.00	0.25	0.00
2	0.00	0.00	0.00	0.00	0.30	0.00	0.00	---	0.00	0.00	0.85	0.00
3	0.00	0.00	0.00	0.00	0.77	0.00	0.00	---	0.00	0.00	0.00	0.00
4	0.00	0.00	0.35	0.00	0.00	0.00	0.00	---	0.27	0.00	0.00	0.00
5	0.00	0.00	0.09	0.15	0.07	0.00	0.00	---	0.00	0.00	0.00	0.00
6	0.00	2.89	0.01	0.00	1.11	0.26	0.00	---	0.00	0.00	0.00	0.22
7	0.00	0.01	0.00	0.00	0.00	0.01	0.00	---	0.00	0.00	0.00	2.44
8	0.58	0.10	0.00	0.00	0.00	0.00	0.00	---	0.09	0.00	0.00	1.75
9	0.07	0.00	0.00	0.03	0.00	0.01	0.00	---	0.00	0.00	0.00	0.00
10	0.18	0.00	1.13	0.01	0.00	0.01	0.00	---	0.00	0.01	0.00	0.00
11	0.06	0.00	0.00	0.03	0.00	0.00	0.12	---	0.00	0.00	1.38	0.00
12	0.00	0.00	0.00	0.00	0.44	0.00	0.97	---	0.01	0.00	3.57	0.00
13	0.00	0.00	0.49	0.00	0.00	0.00	0.95	---	0.31	0.02	0.01	0.00
14	0.34	0.00	0.25	0.00	0.00	0.00	0.16	---	0.05	0.00	0.00	0.07
15	0.00	0.00	0.25	0.02	0.20	0.36	0.00	---	0.06	0.00	0.01	0.00
16	0.00	0.00	0.01	0.00	0.08	0.19	0.00	---	0.31	0.00	0.00	0.00
17	0.00	0.00	0.25	0.07	0.04	0.00	0.00	---	0.29	0.11	0.00	0.55
18	0.00	0.00	0.00	0.16	0.02	0.27	0.00	---	0.01	0.00	0.30	0.01
19	0.00	1.14	0.00	0.00	0.00	0.00	0.00	---	0.02	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.26	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.84	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.09	0.00	0.00	0.00
24	0.00	0.02	0.00	0.20	0.01	0.00	---	---	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.16	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	0.00	0.00	---	---	0.82	0.10	0.00	0.00
27	0.26	0.00	0.00	0.02	0.39	0.00	---	---	0.25	0.61	0.00	1.80
28	0.08	0.21	0.00	0.02	0.00	0.00	---	0.00	0.20	0.12	0.00	2.53
29	0.01	0.00	0.00	0.27	0.00	0.00	---	0.00	0.00	0.76	0.08	0.00
30	0.00	0.00	0.09	0.04	---	0.18	---	0.10	0.40	0.00	0.09	0.00
31	0.00	---	0.00	0.00	---	1.20	---	0.14	---	0.00	0.00	---
TOTAL	1.62	4.37	2.92	1.02	3.43	2.49	---	---	4.45	1.73	6.54	9.37



02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC

LOCATION.--Lat 35°41'09", long 82°03'39", McDowell County, Hydrologic Unit 03050101, on right bank 18 ft downstream of bridge on Secondary Road 1221, 0.8 mi upstream from Buck Creek, 0.8 mi southeast of Pleasant Gardens, and at mile 297.

DRAINAGE AREA.--126 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1963, 1970-73, 1975. October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,230 ft above NGVD of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for current water year and period of record from rating curve extended above 10,000 ft³/s on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0330	23,000	17.55	Sep 17	0945	11,700	13.64

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	182	215	184	146	199	195	157	115	141	216	412
2	178	178	206	182	149	197	174	169	101	141	229	757
3	175	176	200	180	263	193	168	158	97	155	207	426
4	174	174	217	180	216	187	162	145	125	158	164	273
5	170	202	237	182	190	183	156	142	113	140	146	216
6	169	291	222	176	939	201	154	137	100	127	154	232
7	168	241	208	167	751	188	154	131	99	120	126	3,130
8	181	216	200	167	412	185	152	127	109	113	118	15,100
9	276	201	195	170	325	179	150	158	105	110	113	2,370
10	261	192	512	168	289	178	144	149	98	109	111	975
11	270	188	465	163	269	172	144	129	105	215	134	651
12	251	184	320	163	288	170	206	125	104	187	191	498
13	222	177	280	161	270	165	569	130	224	149	149	407
14	213	172	331	160	254	162	407	136	137	124	122	359
15	212	171	292	160	254	171	287	123	538	112	115	321
16	197	170	271	156	245	189	244	129	348	105	113	313
17	192	170	300	155	228	173	221	142	267	119	108	6,300
18	188	175	271	186	222	200	205	135	205	189	159	1,970
19	184	3,590	259	166	217	201	193	155	170	135	118	944
20	178	844	243	157	212	182	184	142	152	120	130	686
21	177	495	230	156	209	182	179	123	154	110	107	562
22	174	383	226	154	198	172	171	118	175	105	103	477
23	171	328	223	151	192	167	165	129	148	102	104	422
24	170	308	235	150	190	164	161	122	146	121	112	386
25	168	275	217	160	186	163	156	111	155	348	137	362
26	189	256	207	156	191	162	195	108	225	164	108	339
27	364	245	203	153	203	160	177	112	161	171	101	364
28	232	253	198	150	201	158	155	105	158	185	121	1,970
29	209	234	196	149	205	155	150	104	152	148	144	759
30	194	222	199	153	---	164	149	108	140	198	113	567
31	186	---	188	150	---	220	---	132	---	303	183	---
TOTAL	6,277	10,893	7,766	5,065	7,914	5,542	5,927	4,091	4,926	4,724	4,256	42,548
MEAN	202	363	251	163	273	179	198	132	164	152	137	1,418
MAX	364	3,590	512	186	939	220	569	169	538	348	229	15,100
MIN	168	170	188	149	146	155	144	104	97	102	101	216
CFSM	1.61	2.88	1.99	1.30	2.17	1.42	1.57	1.05	1.30	1.21	1.09	11.3
IN.	1.85	3.22	2.29	1.50	2.34	1.64	1.75	1.21	1.45	1.39	1.26	12.56

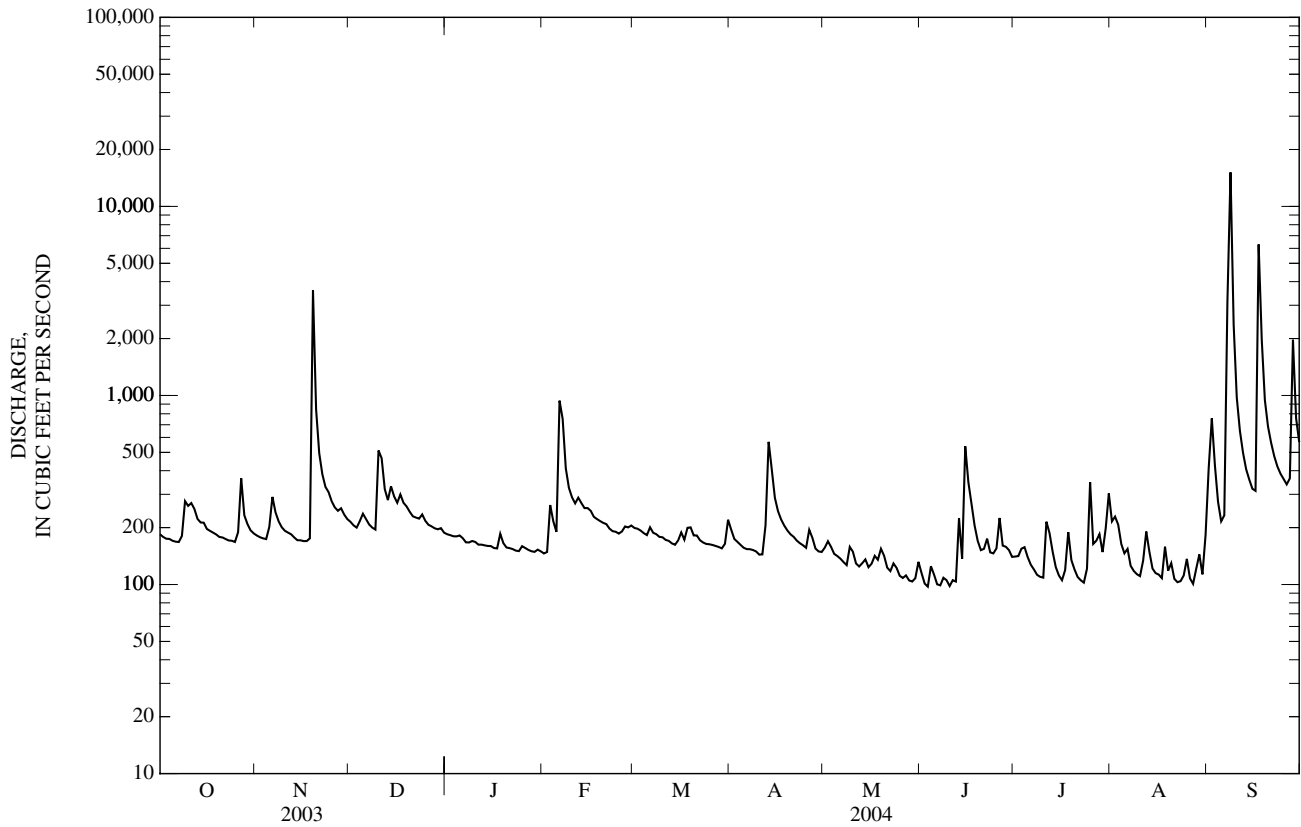
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	178	206	222	266	321	337	314	242	204	168	197	214
MAX	550	606	573	620	739	622	688	524	652	468	543	1,418
(WY)	(1996)	(1986)	(1984)	(1995)	(1998)	(1990)	(1983)	(2003)	(1992)	(2003)	(2003)	(2004)
MIN	52.4	63.8	77.6	107	110	130	138	76.2	65.1	49.8	32.3	43.3
(WY)	(2001)	(2002)	(1989)	(1981)	(2001)	(1988)	(1986)	(2001)	(2001)	(2002)	(2002)	(1999)

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL TOTAL	134,825		109,929			
ANNUAL MEAN	369		300		239	
HIGHEST ANNUAL MEAN					351	1984
LOWEST ANNUAL MEAN					103	2002
HIGHEST DAILY MEAN	3,590	Nov 19	15,100	Sep 8	15,100	Sep 8, 2004
LOWEST DAILY MEAN	118	Jan 28	97	Jun 3	14	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	125	Jan 23	103	Jun 6	17	Aug 9, 2002
MAXIMUM PEAK FLOW			23,000*	Sep 8	23,000*	Sep 8, 2004
MAXIMUM PEAK STAGE			17.55	Sep 8	17.55	Sep 8, 2004
INSTANTANEOUS LOW FLOW			92	Jun 12	11	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	2.93		2.38		1.89	
ANNUAL RUNOFF (INCHES)	39.81		32.46		25.72	
10 PERCENT EXCEEDS	648		360		416	
50 PERCENT EXCEEDS	273		178		171	
90 PERCENT EXCEEDS	169		115		73	

* See REMARKS.



02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC—Continued

PRECIPITATION RECORDS

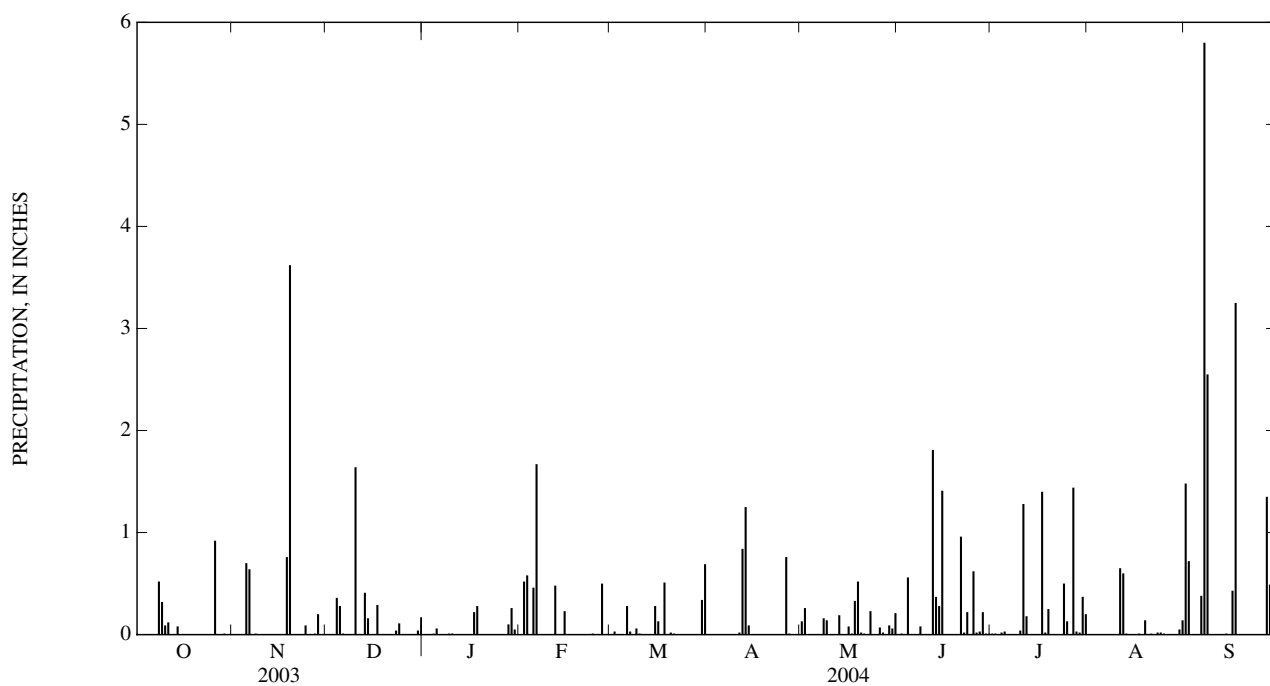
PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Duke Energy and the North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.00	1.48
2	0.00	0.00	0.00	0.00	0.52	0.03	0.00	0.26	0.01	0.01	0.00	0.72
3	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.36	0.01	0.00	0.00	0.00	0.00	0.56	0.02	0.00	0.00
5	0.00	0.70	0.28	0.06	0.46	0.00	0.00	0.00	0.00	0.03	0.00	0.00
6	0.00	0.64	0.01	0.00	1.67	0.28	0.00	0.00	0.00	0.00	0.00	0.38
7	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	5.80
8	0.52	0.01	0.00	0.00	0.00	0.00	0.00	0.16	0.08	0.00	0.00	2.55
9	0.32	0.00	0.00	0.01	0.00	0.06	0.00	0.14	0.00	0.00	0.00	0.00
10	0.09	0.00	1.64	0.01	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00
11	0.12	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.28	0.65	0.00
12	0.00	0.00	0.00	0.00	0.48	0.00	0.84	0.00	1.81	0.18	0.60	0.00
13	0.00	0.00	0.41	0.00	0.00	0.00	1.25	0.19	0.37	0.00	0.01	0.00
14	0.08	0.00	0.16	0.00	0.00	0.00	0.09	0.00	0.28	0.00	0.00	0.01
15	0.00	0.00	0.00	0.00	0.23	0.28	0.00	0.00	1.41	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.08	---	0.00	0.00	0.43
17	0.00	0.00	0.29	0.22	0.00	0.00	0.00	0.01	---	1.40	0.01	3.25
18	0.00	0.76	0.00	0.28	0.00	0.51	0.00	0.33	0.00	0.02	0.00	0.00
19	0.00	3.62	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.25	0.14	0.00
20	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.96	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
23	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.23	0.22	0.00	0.02	0.00
24	0.00	0.09	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.50	0.02	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.13	0.01	0.00
26	0.92	0.00	0.00	0.00	0.00	0.00	0.76	0.07	0.02	0.00	0.00	0.00
27	---	0.01	0.00	0.00	0.50	0.00	0.01	0.02	0.03	1.44	0.00	1.35
28	---	0.20	0.00	0.10	0.00	0.00	0.00	0.00	0.22	0.03	0.00	0.49
29	0.01	0.00	0.00	0.26	0.00	0.00	0.00	0.09	0.01	0.02	0.00	0.00
30	0.00	0.00	0.04	0.05	---	0.34	0.00	0.06	0.01	0.37	0.05	0.00
31	0.00	---	0.00	0.00	---	0.69	---	0.21	---	0.20	0.14	---
TOTAL	---	6.03	3.34	1.00	4.45	2.39	2.97	2.53	---	5.93	1.66	16.46



02138500 LINVILLE RIVER NEAR NEBO, NC

LOCATION.--Lat 35°47'41", long 81°53'24", Burke County, Hydrologic Unit 03050101, in Pisgah National Forest on right bank 370 ft upstream from bridge on State Highway 126, 0.2 mi downstream of Shooks Creek, 0.5 mi upstream from Lake James, 2.0 mi northeast of Longtown, and 6.0 mi northeast of Nebo.

DRAINAGE AREA.--66.7 mi².

PERIOD OF RECORD.--May 1907 to August 1908 (fragmentary). June 1922 to current year. Prior to 1908 published as "Linville River at Fonta Flora" and as "Linville River at Branch" 1923-70. Records for October to December 1908 "Linville River at Fonta Flora" published in WSP 242 have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 892: 1929, 1935, 1937. WSP 1503: 1923(M), 1924-28, 1930, 1932-33(M), 1938(M), 1939(P). WDR NC-80-1: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,203.87 ft above NGVD of 1929. May 1907 to August 1908, nonrecording gage about 1.2 mi downstream at different datum. June 1922 to Aug. 27, 1937, nonrecording gage and Aug. 28, 1937, to Sept. 30, 1970, water-stage recorder at site on right bank 20 ft downstream of bridge on State Highway 126 at 1,204.87 ft. Oct. 1, 1970, to Sept. 30, 1973, at present site at 1,204.87 ft. Oct. 1, 1973, to Aug. 25, 1981, at present site at 1,204.87 ft. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for current water year and period of record, from rating curve extended above 12,000 ft³/s on basis of slope area measurement. Maximum gage-height for current water year and period of record from high-water mark at gage. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Aug. 22.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of about 11 ft at former site and datum; discharge, 34,600 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	unknown	42,400	13.68	Sep 17	0945	23,500	11.26

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	75	133	e122	e83	139	147	100	145	103	77	75
2	76	73	124	e120	e80	151	136	101	110	104	87	3,160
3	70	70	116	e118	e108	201	124	98	96	109	103	812
4	67	69	119	e117	e140	202	116	91	195	109	84	326
5	66	79	134	e125	e110	187	100	86	226	119	66	214
6	64	118	140	e119	e270	187	95	82	147	106	56	171
7	62	140	124	e108	589	215	91	78	123	91	52	3,350
8	63	117	113	e104	285	177	89	74	122	80	47	e16,600
9	103	104	109	e107	213	162	86	110	126	73	45	e1,810
10	208	92	185	e106	185	154	83	112	134	68	43	e832
11	185	85	531	e93	168	145	81	98	122	76	43	e567
12	144	83	271	e90	162	136	116	94	105	92	66	416
13	120	82	213	91	154	128	508	157	288	80	84	322
14	110	76	203	88	148	123	519	156	212	70	67	272
15	111	71	187	87	146	123	283	127	174	61	55	222
16	98	68	167	85	142	136	229	112	197	55	47	275
17	92	69	205	82	131	141	184	113	207	54	46	9,750
18	86	70	206	96	124	142	151	112	158	157	44	2,380
19	82	5,420	180	101	122	158	141	290	138	88	42	812
20	78	1,010	165	e91	124	144	134	144	124	72	39	497
21	75	475	e152	e88	142	137	130	117	123	61	34	359
22	75	314	e145	e86	162	131	115	230	156	56	35	253
23	72	240	137	e86	154	124	107	150	133	53	38	228
24	69	208	179	e83	152	120	103	239	114	51	46	182
25	67	187	184	e88	152	116	100	150	117	66	45	154
26	70	159	155	e91	149	112	122	128	199	65	43	179
27	120	146	144	e93	150	109	162	133	158	90	39	199
28	115	157	137	e85	140	107	124	122	133	107	46	1,620
29	101	165	131	e80	137	104	110	109	119	84	47	671
30	89	145	135	e87	---	105	102	109	109	69	46	398
31	82	---	e135	e85	---	130	---	127	---	79	46	---
TOTAL	2,902	10,167	5,259	3,002	4,822	4,446	4,588	3,949	4,510	2,548	1,658	47,106
MEAN	93.6	339	170	96.8	166	143	153	127	150	82.2	53.5	1,570
MAX	208	5,420	531	125	589	215	519	290	288	157	103	16,600
MIN	62	68	109	80	80	104	81	74	96	51	34	75
CFSM	1.40	5.08	2.54	1.45	2.49	2.15	2.29	1.91	2.25	1.23	0.80	23.5
IN.	1.62	5.67	2.93	1.67	2.69	2.48	2.56	2.20	2.52	1.42	0.92	26.27

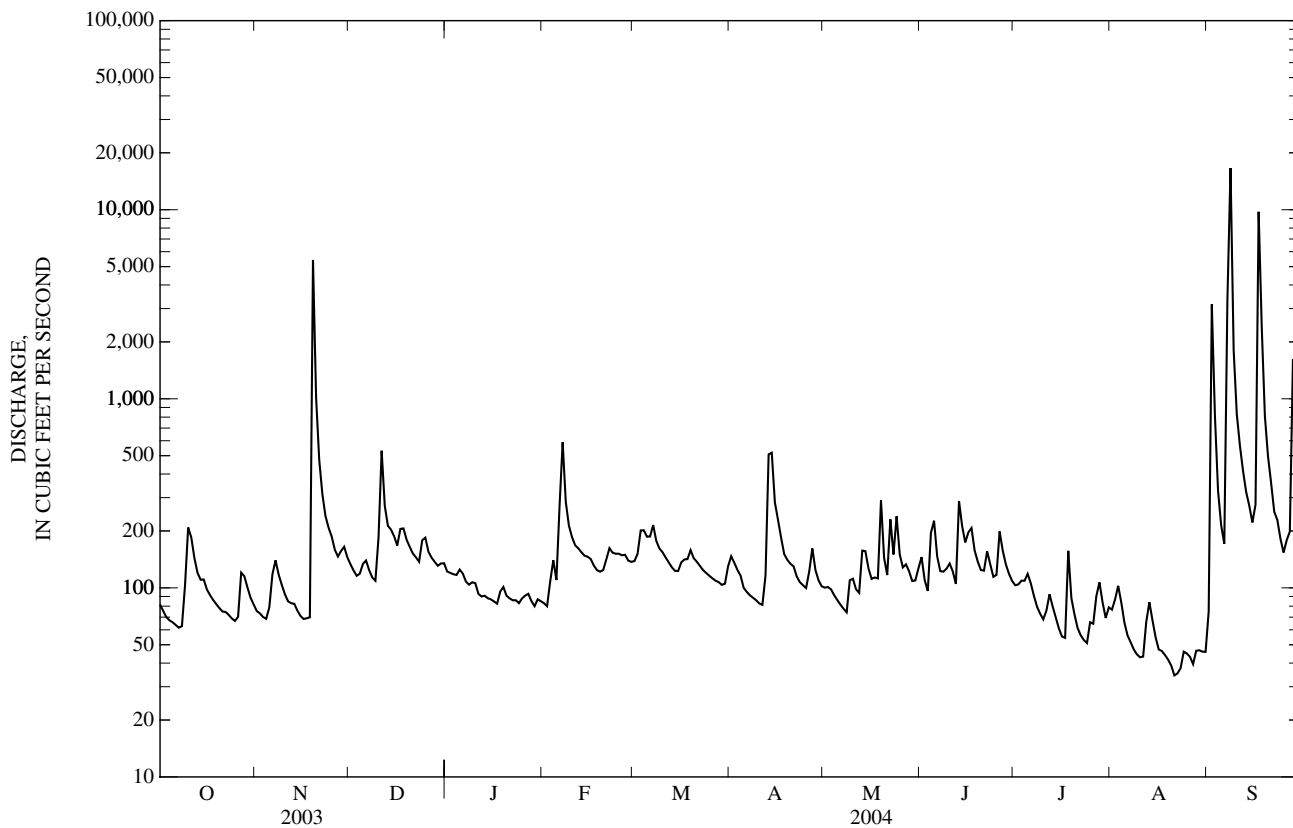
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2004, BY WATER YEAR (WY)

MEAN	122	138	138	174	191	230	201	148	129	98.4	118	128
MAX	433	678	349	664	569	632	479	369	598	449	1,084	1,570
(WY)	(1937)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(1989)	(1940)	(2004)
MIN	18.9	27.8	30.9	31.8	60.8	74.3	62.0	48.9	33.7	23.0	15.5	13.8
(WY)	(1955)	(1932)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1941)	(1930)	(1925)	(1925)

02138500 LINVILLE RIVER NEAR NEBO, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1922 - 2004	
ANNUAL TOTAL	75,341		94,957		151	
ANNUAL MEAN	206		259		77.6	
HIGHEST ANNUAL MEAN					259	2004
LOWEST ANNUAL MEAN					77.6	1988
HIGHEST DAILY MEAN	5,420	Nov 19	16,600	Sep 8	16,600	Sep 8, 2004
LOWEST DAILY MEAN	51	Sep 21	34	Aug 21	8.0	Sep 7, 1925
ANNUAL SEVEN-DAY MINIMUM	59	Sep 15	40	Aug 17	10	Aug 22, 1925
MAXIMUM PEAK FLOW			42,400*	Sep 8	42,400*	Sep 8, 2004
MAXIMUM PEAK STAGE			13.68*	Sep 8	13.68*	Sep 8, 2004
INSTANTANEOUS LOW FLOW			34*	Aug 21	2.0*	Jan 9, 1956
ANNUAL RUNOFF (CFSM)	3.09		3.89		2.26	
ANNUAL RUNOFF (INCHES)	42.02		52.96		30.76	
10 PERCENT EXCEEDS	319		239		267	
50 PERCENT EXCEEDS	138		118		99	
90 PERCENT EXCEEDS	74		66		38	

* See REMARKS.
e Estimated.



0213903612 CATAWBA RIVER AT CALVIN, NC

LOCATION.--Lat 35°44'23", long 81°43'43", Burke County, Hydrologic Unit 03050101, on right bank at City of Morganton's water intake, 0.5 mi upstream from Canoe Creek, and 0.5 mi north of Calvin.

DRAINAGE AREA.--508 mi².

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,002.40 ft above NGVD of 1929 (levels by City of Morganton). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. City of Morganton diverted about 11.4 ft³/s from Catawba River for municipal water supply. Considerable regulation, at times, caused by Lake James (station 02138519), 6.5 mi upstream. Maximum discharge for current water year and period of record from rating curve extended above 26,000 ft³/s, by logarithmic plotting, maximum gage-height, 26.30 ft, from high-water mark at gage. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for current water year also occurred Aug. 21.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 9	unknown	52,600	26.30	Sep 18	0445	14,300	14.86

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in the reports for 1994, 1995, 1996, and 2003.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
1994	Aug. 18, 1994	16,200	16.40	1996	Oct. 5, 1995	8,280	8.50
1995	Jan. 15, 1995	11,300	11.72	2003	Apr. 18, 2003	7,770	8.02

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	938	499	1,290	987	489	762	896	727	596	747	449	413
2	927	493	1,300	1,050	911	759	857	753	587	792	434	1,510
3	942	487	1,320	1,000	1,060	894	833	884	582	763	457	2,310
4	952	571	1,340	1,000	1,010	688	836	641	594	730	620	1,740
5	932	605	1,720	994	957	918	992	622	606	737	620	1,710
6	934	786	1,720	999	1,570	909	256	617	580	662	605	1,760
7	947	777	1,700	985	1,090	891	640	605	586	637	360	834
8	970	733	1,920	1,010	623	880	639	534	582	630	359	e29,900
9	985	746	2,340	1,030	881	666	640	583	586	622	360	e34,700
10	963	765	1,410	753	1,150	662	641	640	579	616	579	e9,910
11	880	733	1,620	754	1,030	658	641	609	577	613	598	5,740
12	738	1,060	2,500	720	979	864	761	593	581	615	311	4,060
13	930	761	2,430	730	1,020	565	1,460	605	660	644	648	3,260
14	967	740	2,510	716	1,080	564	831	627	627	567	608	2,770
15	933	748	2,450	729	1,090	575	735	639	658	760	601	2,490
16	925	746	2,410	740	742	679	833	616	1,470	595	609	2,410
17	943	759	2,430	724	722	667	626	524	726	379	594	6,370
18	965	756	2,390	757	714	640	596	537	905	470	606	12,800
19	668	1,000	2,060	760	699	1,050	754	525	909	993	591	7,710
20	928	2,480	1,670	1,050	722	1,030	747	578	857	938	587	4,960
21	637	2,290	1,690	1,040	611	1,010	740	629	894	541	461	3,720
22	639	1,720	1,480	991	605	1,000	347	792	1,480	1,610	461	3,080
23	651	1,620	1,020	1,000	606	1,000	348	526	1,040	989	594	2,650
24	648	1,500	1,040	727	598	998	556	740	960	430	632	2,470
25	650	1,450	1,040	732	592	394	552	622	939	476	638	2,410
26	635	1,380	1,010	1,030	616	645	571	569	973	441	614	2,400
27	1,020	1,320	1,010	1,030	600	566	773	573	676	457	705	2,420
28	782	1,320	1,010	684	787	557	728	587	659	854	422	3,310
29	649	1,390	1,010	424	761	560	715	601	636	737	431	2,760
30	600	1,340	1,040	1,030	---	651	716	608	638	469	418	2,570
31	589	---	1,000	485	---	694	---	605	---	463	409	---
TOTAL	25,867	31,575	50,880	26,661	24,315	23,396	21,260	19,311	22,743	20,977	16,381	165,147
MEAN	834	1,052	1,641	860	838	755	709	623	758	677	528	5,505
MAX	1,020	2,480	2,510	1,050	1,570	1,050	1,460	884	1,480	1,610	705	34,700
MIN	589	487	1,000	424	489	394	256	524	577	379	311	413
†	-100	+348	-483	-162	+351	+20	+157	+21	+10	-92	-81	+318

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

MEAN	580	657	850	1,131	1,124	1,146	1,080	834	669	801	922
MAX	1,943	1,615	1,700	2,438	2,659	2,093	2,259	1,627	1,716	2,078	5,505
(WY)	(1996)	(1993)	(1993)	(1995)	(1998)	(1993)	(2003)	(2003)	(1992)	(2003)	(1994)
MIN	227	294	298	327	291	409	437	322	355	380	200
(WY)	(2003)	(2001)	(1999)	(2002)	(2002)	(1999)	(1999)	(2002)	(2001)	(2001)	(2002)

0213903612 CATAWBA RIVER AT CALVIN, NC—Continued

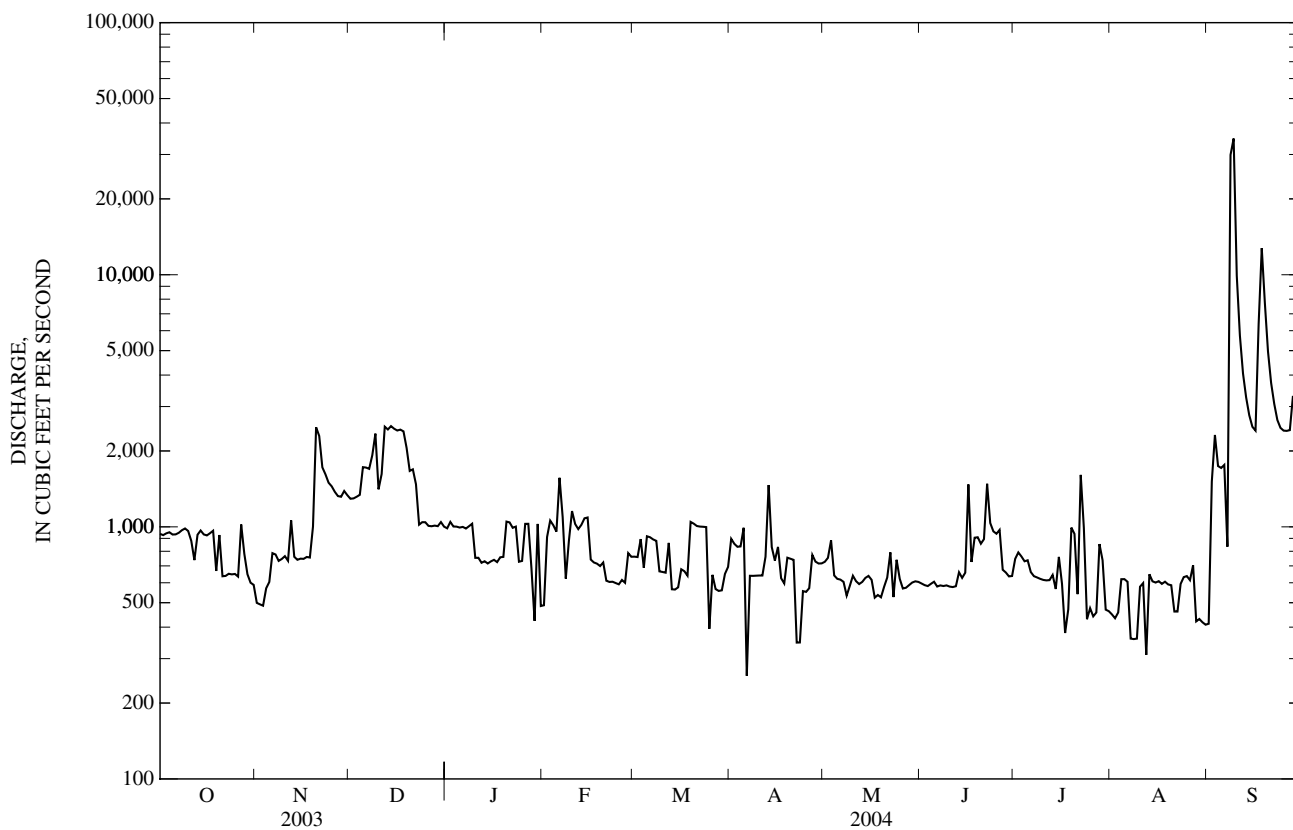
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1991 - 2004	
ANNUAL TOTAL	493,317		448,513 ‡1247		885 (UNADJUSTED)	
ANNUAL MEAN	1,352		1,225		1,230 1993	
HIGHEST ANNUAL MEAN					376 2002	
LOWEST ANNUAL MEAN					34,700 Sep 9, 2004	
HIGHEST DAILY MEAN	5,490	Apr 19	34,700	Sep 9		
LOWEST DAILY MEAN	249	Jan 1	256	Apr 6	36 Sep 12, 2002	
ANNUAL SEVEN-DAY MINIMUM	317	Jan 27	453	Aug 6	112 Oct 10, 1993	
MAXIMUM PEAK FLOW			52,600*	Sep 9	52,600* Sep 9, 2004	
MAXIMUM PEAK STAGE			26.30*	Sep 9	26.30* Sep 9, 2004	
INSTANTANEOUS LOW FLOW			121*	Aug 9	2.1* Sep 12, 2002	
10 PERCENT EXCEEDS	2,370		1,810		1,740	
50 PERCENT EXCEEDS	1,320		746		624	
90 PERCENT EXCEEDS	528		536		270	

† Change in contents, equivalent in cubic feet per second, in Lake James, provided by Duke Power Company.

‡ Adjusted for change in contents.

* See REMARKS.

e Estimated.



02140991 JOHNS RIVER AT ARNEYS STORE, NC

LOCATION.--Lat 35°50'01", long 81°42'42", Burke County, Hydrologic Unit 03050101, on right bank 12 ft downstream of bridge on Secondary Road 1438, 0.2 mi downstream of Sims Branch, and 0.8 mi northeast of Arneys Store.

DRAINAGE AREA.--201 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1974-84. May 1985 to current year.

REVISED RECORDS.--WDR NC-87-1: 1985-86 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,001.74 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 12,500 ft³/s on basis of slope-area measurement; maximum gage height from high-water mark. Minimum discharge for period of record also occurred Sept. 14, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	unknown	39,000	28.60	Sep 17	1445	12,000	16.53

REVISIONS.--The maximum discharge for the water years 1994 and 1995 have been revised to 29,000 ft³/s, Aug. 17, 1994, gage height, 25.23 ft and 25,700 ft³/s, Jan. 15, 1995, gage height, 23.98 ft superseding figures published in reports for 1994 and 1995.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304	235	522	370	237	348	382	288	301	276	275	188
2	285	229	482	361	234	347	323	303	242	290	330	2,840
3	273	225	449	356	412	362	302	295	230	320	234	1,560
4	269	224	433	352	390	351	290	273	312	338	197	654
5	264	263	476	357	326	347	278	267	371	420	179	466
6	254	427	453	349	1,060	373	270	255	265	288	177	379
7	249	415	420	319	1,410	367	267	241	255	254	158	1,330
8	250	313	393	311	733	345	266	231	249	236	150	e19,400
9	318	273	374	314	568	326	264	297	252	219	145	e6,210
10	339	259	551	310	501	322	254	372	241	207	141	2,310
11	303	253	1,250	296	466	310	254	267	234	e225	140	1,350
12	285	249	752	294	457	307	509	260	212	e270	272	988
13	263	243	609	294	452	297	1,260	395	444	e240	299	798
14	262	226	592	289	425	289	1,090	338	411	e210	189	697
15	292	228	573	287	422	292	681	285	480	e180	169	630
16	257	229	532	278	427	356	549	282	1,070	176	162	572
17	249	226	617	273	390	335	482	454	865	e160	158	6,750
18	245	226	590	322	383	331	443	381	557	e520	168	4,280
19	240	7,520	547	295	378	356	412	410	436	e240	153	1,700
20	235	2,390	502	267	374	313	387	378	376	e200	184	1,120
21	233	1,170	463	258	377	313	369	342	364	176	155	896
22	230	1,000	442	257	372	297	348	451	722	166	142	760
23	221	895	429	254	358	288	332	593	461	165	151	668
24	220	817	543	251	358	283	321	667	376	157	350	601
25	217	763	484	263	354	279	304	444	365	194	250	556
26	230	686	445	274	351	274	366	366	541	213	189	516
27	530	629	427	256	364	272	402	362	388	236	169	504
28	326	610	413	248	358	272	314	308	350	375	282	2,030
29	272	644	399	236	355	267	294	280	329	237	299	1,070
30	250	572	413	255	---	278	281	264	297	262	218	791
31	239	---	386	249	---	389	---	305	---	445	195	---
TOTAL	8,404	22,439	15,961	9,095	13,292	9,886	12,294	10,654	11,996	7,895	6,280	62,614
MEAN	271	748	515	293	458	319	410	344	400	255	203	2,087
MAX	530	7,520	1,250	370	1,410	389	1,260	667	1,070	520	350	19,400
MIN	217	224	374	236	234	267	254	231	212	157	140	188
CFSM	1.35	3.72	2.56	1.46	2.28	1.59	2.04	1.71	1.99	1.27	1.01	10.4
IN.	1.56	4.15	2.95	1.68	2.46	1.83	2.28	1.97	2.22	1.46	1.16	11.59

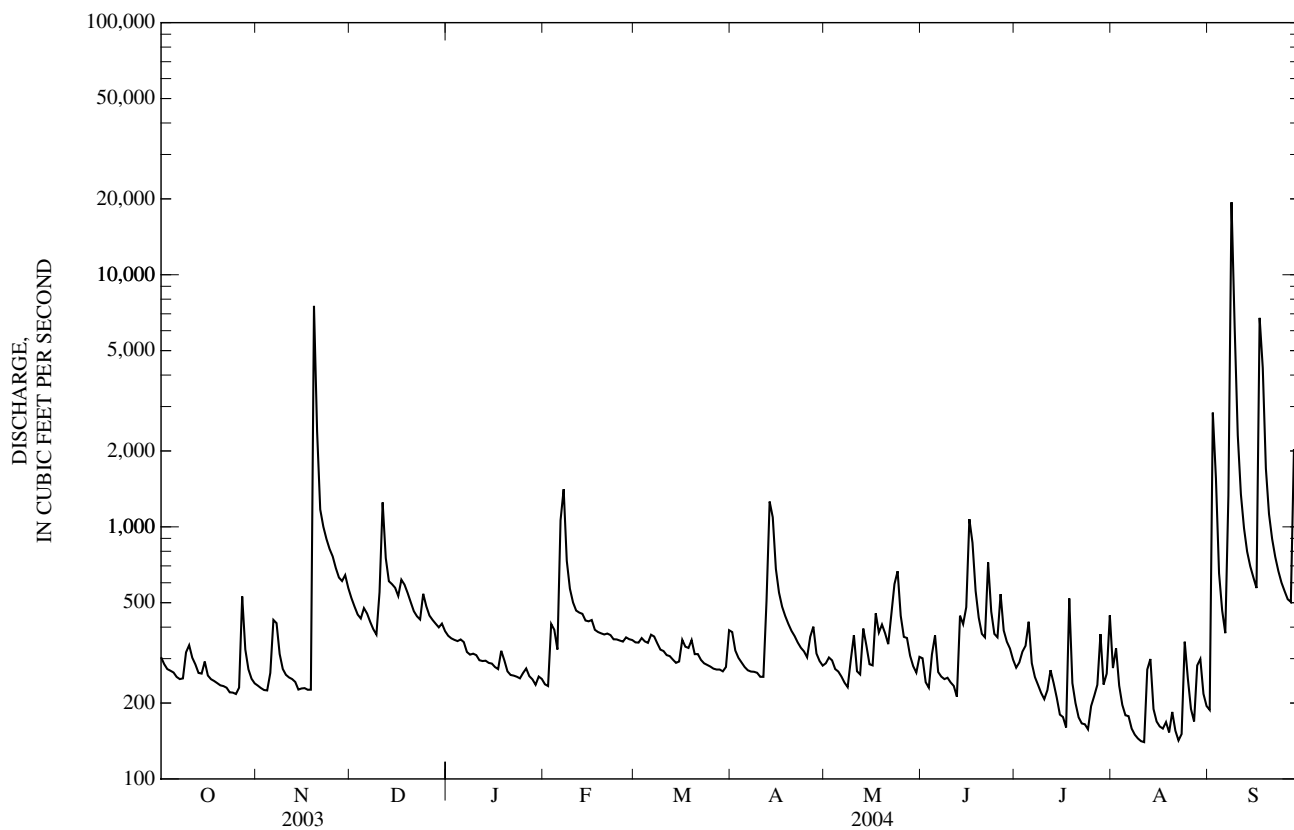
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2004, BY WATER YEAR (WY)

MEAN	255	335	319	419	408	529	465	340	330	255	294	324
MAX	890	938	602	1,388	838	1,151	883	595	963	662	1,070	2,087
(WY)	(1991)	(1993)	(1997)	(1995)	(1990)	(1993)	(1987)	(1993)	(1992)	(2003)	(1994)	(2004)
MIN	79.1	104	113	170	138	179	206	128	94.5	75.5	42.6	88.7
(WY)	(2001)	(2002)	(1989)	(2001)	(2001)	(1988)	(1986)	(2001)	(2002)	(1988)	(2002)	(1999)

02140991 JOHNS RIVER AT ARNEYS STORE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1985 - 2004	
ANNUAL TOTAL	196,842		190,810		357	
ANNUAL MEAN	539		521		521	
HIGHEST ANNUAL MEAN					164	2004
LOWEST ANNUAL MEAN					19,400	2002
HIGHEST DAILY MEAN	7,520	Nov 19	19,400	Sep 8	19,400	Sep 8, 2004
LOWEST DAILY MEAN	168	Jan 27	140	Aug 11	19	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	178	Jan 23	156	Aug 5	24	Sep 8, 2002
MAXIMUM PEAK FLOW			39000*	Sep 8	39000*	Sep 8, 2004
MAXIMUM PEAK STAGE			28.60*	Sep 8	28.60*	Sep 8, 2004
INSTANTANEOUS LOW FLOW			136	Aug 11	19*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.68		2.59		1.78	
ANNUAL RUNOFF (INCHES)	36.43		35.31		24.12	
10 PERCENT EXCEEDS	842		689		624	
50 PERCENT EXCEEDS	440		320		254	
90 PERCENT EXCEEDS	226		218		102	

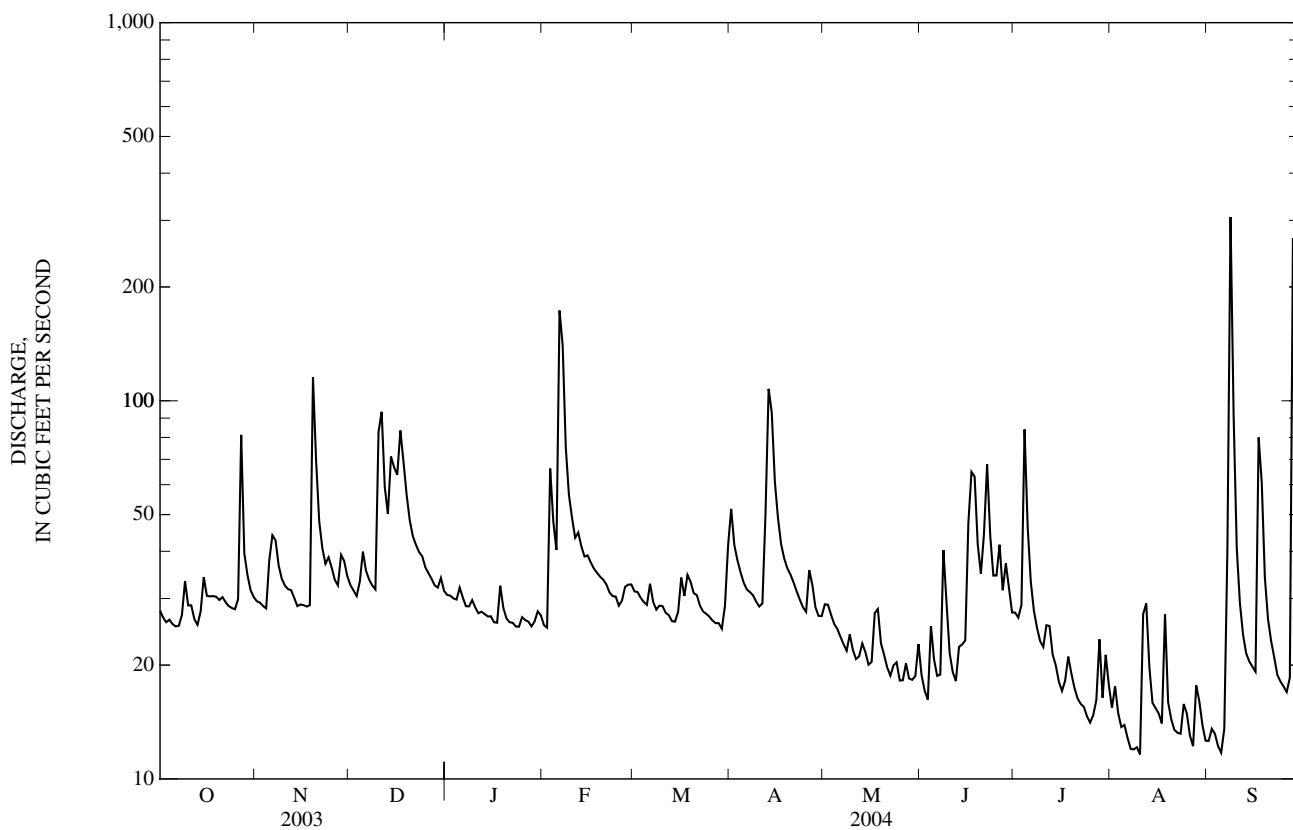
* See REMARKS.
e Estimated.



02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004 [@]	
ANNUAL TOTAL	20,425		12,185		38.0	
ANNUAL MEAN	56.0		33.3		65.2	
HIGHEST ANNUAL MEAN					13.7	1993
LOWEST ANNUAL MEAN					2.0	2002
HIGHEST DAILY MEAN	724	Apr 10	306	Sep 8	2,270	Aug 10, 1970
LOWEST DAILY MEAN	16	Jan 24	12	Aug 7	1.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	16	Jan 22	13	Aug 4	2.0	Sep 8, 2002
MAXIMUM PEAK FLOW			631	Sep 28	4,850	Aug 10, 1970
MAXIMUM PEAK STAGE			5.44	Sep 28	15.68	Aug 10, 1970
INSTANTANEOUS LOW FLOW			10	Aug 11	0.32*	Jan 3, 2001
ANNUAL RUNOFF (CFSM)	1.98		1.18		1.35	
ANNUAL RUNOFF (INCHES)	26.94		16.07		18.33	
10 PERCENT EXCEEDS	87		48		66	
50 PERCENT EXCEEDS	40		29		26	
90 PERCENT EXCEEDS	23		16		11	

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



02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC—Continued

PRECIPITATION RECORDS

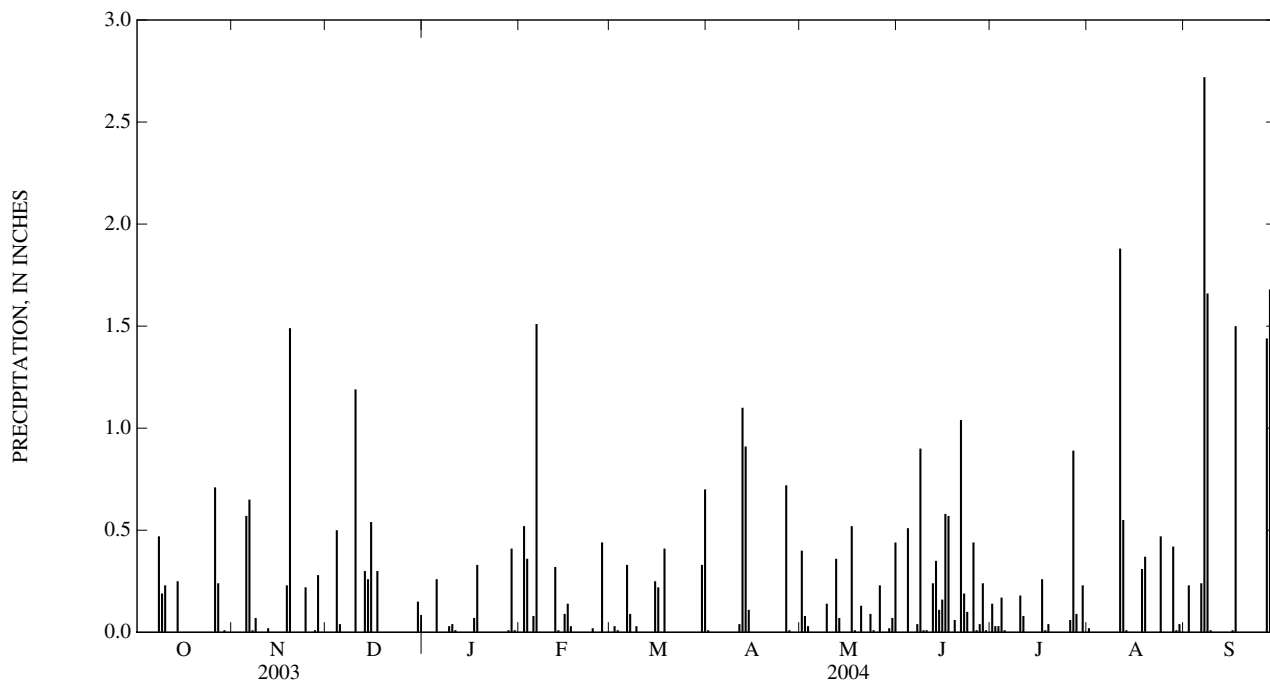
PERIOD OF RECORD.--August 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.40	0.00	0.14	0.02	0.00
2	0.00	0.00	0.00	0.00	0.52	0.03	0.00	0.08	0.00	0.03	0.00	0.23
3	0.00	0.00	0.00	0.00	0.36	0.01	0.00	0.03	0.00	0.03	0.00	0.00
4	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.51	0.17	0.00	0.00
5	0.00	0.57	0.04	0.26	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.00
6	0.00	0.65	0.00	0.00	1.51	0.33	0.00	0.00	0.00	0.00	0.00	0.24
7	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.00	0.04	0.00	0.00	2.72
8	0.47	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	1.66
9	0.19	0.00	0.00	0.03	0.00	0.03	0.00	0.14	0.01	0.00	0.00	0.01
10	0.23	0.00	1.19	0.04	0.00	0.00	0.00	0.00	0.01	0.18	0.00	0.00
11	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.08	1.88	0.00
12	0.00	0.02	0.00	0.00	0.32	0.00	1.10	0.36	0.24	0.00	0.55	0.00
13	0.00	0.00	0.30	0.00	0.01	0.00	0.91	0.07	0.35	0.00	0.01	0.00
14	0.25	0.00	0.26	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.00
15	0.00	0.00	0.54	0.00	0.09	0.25	0.00	0.00	0.16	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.14	0.22	0.00	0.00	0.58	0.00	0.00	0.01
17	0.00	0.00	0.30	0.07	0.03	0.00	0.00	0.52	0.57	0.26	0.00	1.50
18	0.00	0.23	0.00	0.33	0.00	0.41	0.00	0.01	0.00	0.01	0.31	0.00
19	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.04	0.37	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.00	0.00	0.00
24	0.00	0.22	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.47	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
26	0.71	0.00	0.00	0.00	0.00	0.00	0.72	0.23	0.01	0.06	0.00	0.00
27	0.24	0.01	0.00	0.00	0.44	0.00	0.01	0.00	0.04	0.89	0.00	1.44
28	0.00	0.28	0.00	0.01	0.00	0.00	0.00	0.00	0.24	0.09	0.42	1.68
29	0.01	0.00	0.00	0.41	0.00	0.00	0.00	0.02	0.01	0.00	0.01	0.00
30	0.00	0.00	0.15	0.01	---	0.33	0.00	0.07	0.00	0.23	0.04	0.00
31	0.00	---	0.00	0.00	---	0.70	---	0.44	---	0.00	0.00	---
TOTAL	2.10	3.55	3.28	1.17	3.52	2.40	2.90	2.60	5.61	2.22	4.08	9.49



0214253830 NORWOOD CREEK NEAR TROUTMAN, NC

LOCATION.--Lat 35°40'50", long 80°56'43", Iredell County, Hydrologic Unit 03050101, on left upstream wingwall of culvert on Secondary Road 1328, 0.4 mi upstream from Lake Norman, 0.7 mi downstream of Powder Spring Branch, 1.0 mi northeast of East Monbo, and 3.7 mi southwest of Troutman.

DRAINAGE AREA.--7.18 mi².

PERIOD OF RECORD.--December 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 761.09 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Peak stage for current water year from crest-stage gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	5.1	4.9	5.4	5.7	6.3	24	7.1	4.7	3.6	1.8	3.1
2	4.6	5.1	4.9	5.3	5.6	6.2	9.3	7.6	4.5	3.3	1.8	3.2
3	4.5	5.1	4.6	5.3	14	6.1	7.8	7.2	4.5	3.2	1.8	3.2
4	4.7	5.1	4.9	5.4	7.8	5.9	7.1	6.9	4.8	3.2	1.7	2.8
5	4.7	5.2	5.4	5.8	6.6	5.8	6.7	6.5	4.5	3.4	1.7	2.8
6	4.8	12	5.1	5.6	49	6.1	6.6	5.8	4.4	3.5	1.7	2.8
7	4.7	5.9	4.9	5.3	29	5.8	6.5	5.5	5.2	3.5	1.7	4.3
8	5.1	5.1	4.9	5.3	8.8	5.7	6.4	5.3	6.1	3.7	1.8	39
9	5.3	4.7	4.9	5.5	7.1	5.6	6.3	5.3	5.5	3.8	1.8	6.2
10	5.0	4.6	10	5.5	6.6	5.6	6.2	5.3	5.2	4.2	1.8	3.8
11	5.3	4.6	8.8	5.5	6.2	5.6	6.3	5.2	5.1	3.4	1.7	3.1
12	5.0	4.6	5.8	5.5	6.9	5.7	8.3	5.2	5.2	4.0	31	2.6
13	4.9	4.5	5.5	5.5	6.7	5.6	36	5.3	5.2	3.5	5.2	2.3
14	5.0	4.6	13	5.5	6.2	5.6	14	5.2	6.0	3.0	2.8	2.4
15	5.1	4.7	8.7	5.5	6.4	5.9	8.8	5.2	5.7	2.6	2.9	2.3
16	4.9	4.7	6.4	5.6	6.5	6.5	7.6	5.2	6.0	2.4	2.9	2.0
17	5.0	4.7	6.6	5.6	6.2	6.1	7.1	5.3	4.8	2.4	2.8	3.5
18	5.0	4.8	6.0	6.0	5.9	6.3	6.7	5.2	4.2	2.5	3.2	2.9
19	5.0	6.5	5.8	5.6	5.8	6.2	6.5	5.2	3.7	2.2	2.8	1.9
20	4.9	5.6	5.5	5.5	5.7	6.1	6.4	5.2	3.5	1.9	2.5	1.8
21	5.0	5.2	5.4	5.5	5.7	6.0	6.3	5.2	3.4	1.8	2.6	1.7
22	5.0	5.0	5.4	5.4	5.5	5.9	6.1	5.2	3.4	1.7	2.6	1.7
23	4.9	4.9	5.3	5.4	5.5	5.8	6.1	5.3	3.4	1.7	2.4	1.7
24	4.9	4.9	5.3	5.5	5.5	5.8	6.0	5.3	3.6	1.6	2.5	1.7
25	4.9	4.9	5.2	5.7	5.4	5.8	5.8	5.1	3.4	1.6	2.5	1.7
26	5.0	5.1	5.2	5.9	5.5	5.8	6.7	5.2	4.2	1.6	2.7	1.6
27	5.6	5.1	5.2	5.8	6.0	6.2	6.3	5.2	3.4	2.2	2.7	1.9
28	5.3	5.3	5.2	5.5	6.0	6.2	5.8	5.0	4.0	2.1	2.9	281
29	5.3	5.0	5.3	5.6	6.2	5.9	5.8	5.0	3.7	2.1	3.4	15
30	5.1	5.0	5.4	5.7	---	6.1	5.9	5.5	3.6	2.1	3.4	7.1
31	5.1	---	5.3	6.0	---	16	---	5.5	---	1.9	3.2	---
TOTAL	154.4	157.6	184.8	172.2	254.0	194.2	255.4	172.2	134.9	83.7	106.3	411.1
MEAN	4.98	5.25	5.96	5.55	8.76	6.26	8.51	5.55	4.50	2.70	3.43	13.7
MAX	5.6	12	13	6.0	49	16	36	7.6	6.1	4.2	31	281
MIN	4.5	4.5	4.6	5.3	5.4	5.6	5.8	5.0	3.4	1.6	1.7	1.6
CFSM	0.69	0.73	0.83	0.77	1.22	0.87	1.19	0.77	0.63	0.38	0.48	1.91
IN.	0.80	0.82	0.96	0.89	1.32	1.01	1.32	0.89	0.70	0.43	0.55	2.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

	7.75	6.91	8.01	9.88	12.2	13.6	11.5	6.95	6.71	5.25	5.06	4.76
MEAN	7.75	6.91	8.01	9.88	12.2	13.6	11.5	6.95	6.71	5.25	5.06	4.76
MAX	36.1	16.9	15.8	21.0	25.1	35.2	29.7	15.2	24.4	22.1	13.0	13.7
(WY)	(1991)	(1993)	(1984)	(1993)	(1990)	(1993)	(2003)	(1990)	(1992)	(1989)	(1994)	(2004)
MIN	1.01	1.38	1.97	2.81	3.54	4.49	3.60	2.39	1.61	1.41	0.85	1.53
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(1986)	(2001)	(1986)	(2000)	(2000)	(2001)

SUMMARY STATISTICS

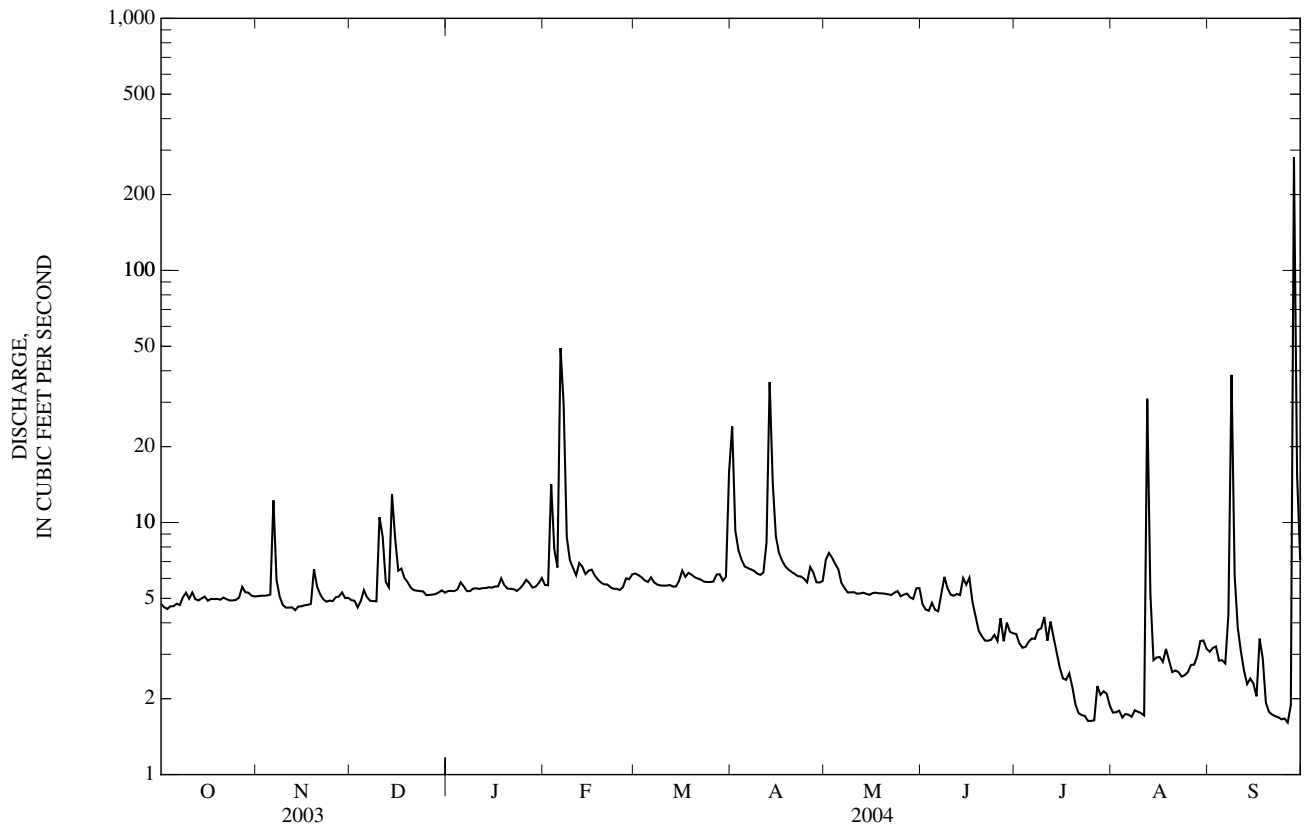
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1984 - 2004

ANNUAL TOTAL	4,679.8	2,280.8	
ANNUAL MEAN	12.8	6.23	8.03
HIGHEST ANNUAL MEAN			13.5
LOWEST ANNUAL MEAN			2.77
HIGHEST DAILY MEAN	550	Mar 20	281
LOWEST DAILY MEAN	4.0	Jun 2	1.6
ANNUAL SEVEN-DAY MINIMUM	4.6	Nov 9	1.7
MAXIMUM PEAK FLOW			875
MAXIMUM PEAK STAGE			8.08*
INSTANTANEOUS LOW FLOW			1.4
ANNUAL RUNOFF (CFSM)	1.79		0.868
ANNUAL RUNOFF (INCHES)	24.25		11.82
10 PERCENT EXCEEDS	14		6.6
50 PERCENT EXCEEDS	7.0		5.2
90 PERCENT EXCEEDS	4.9		2.4

* See REMARKS.



02142651 CRN24

LOCATION.--Lat 35°27'50", long 80°52'35", Mecklenburg County, Hydrologic Unit 03050101, McDowell Creek at Westmoreland Road near Cornelius, NC.

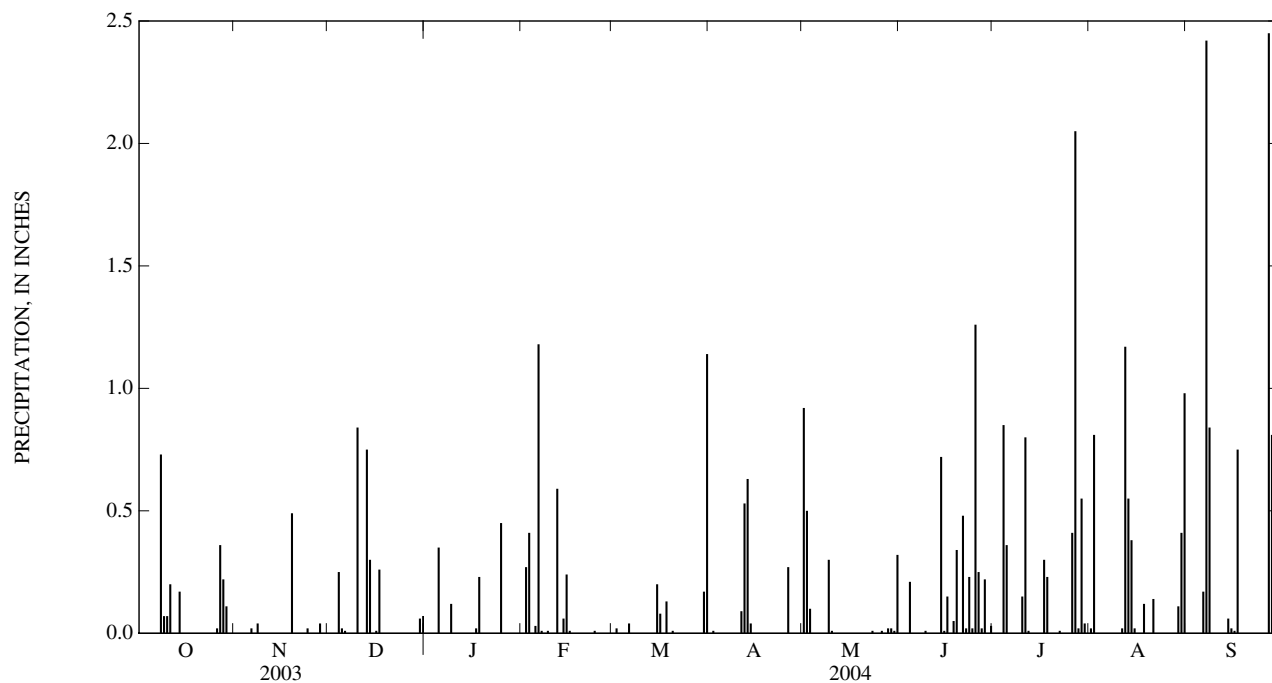
PERIOD OF RECORD.-- May 1994 to current year. Records for period May 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.02	0.00
2	0.00	0.00	0.00	0.00	0.27	0.02	0.01	0.50	0.00	0.00	0.81	0.00
3	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.10	0.00	0.00	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.21	0.85	0.00	0.00
5	0.00	0.00	0.02	0.35	0.03	0.00	0.00	0.00	0.00	0.36	0.00	0.00
6	0.00	0.02	0.01	0.00	1.18	0.04	0.00	0.00	0.00	0.00	0.00	0.17
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.42
8	0.73	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84
9	0.07	0.00	0.00	0.12	0.01	0.00	0.00	0.30	0.01	0.00	0.00	0.00
10	0.07	0.00	0.84	0.00	0.00	0.00	0.00	0.01	0.00	0.15	0.00	0.00
11	0.20	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.80	0.02	0.00
12	0.00	0.00	0.00	0.00	0.59	0.00	0.53	0.00	0.00	0.01	1.17	0.00
13	0.00	0.00	0.75	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.55	0.00
14	0.17	0.00	0.30	0.00	0.06	0.00	0.04	0.00	0.72	0.00	0.38	0.06
15	0.00	0.00	0.00	0.00	0.24	0.20	0.00	0.00	0.01	0.00	0.02	0.02
16	0.00	0.00	0.01	0.00	0.01	0.08	0.00	0.00	0.15	0.00	0.00	0.01
17	0.00	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.75
18	0.00	0.00	0.00	0.23	0.00	0.13	0.00	0.00	0.05	0.23	0.12	0.00
19	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.14	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.23	0.00	0.00	0.00
24	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00
25	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00
26	0.02	0.00	0.00	0.00	---	0.00	0.27	0.01	0.25	0.41	0.00	0.00
27	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.05	0.00	2.45
28	0.22	0.04	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.02	0.00	0.81
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.55	0.11	0.00
30	0.00	0.00	0.06	0.00	---	0.17	0.00	0.01	0.03	0.04	0.41	0.00
31	0.00	---	0.00	0.00	---	1.14	---	0.32	---	0.00	0.98	---
TOTAL	1.95	0.61	2.50	1.17	---	1.79	1.57	2.22	4.02	5.78	4.73	7.53



0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°23'23", long 80°55'16", Mecklenburg County, Hydrologic Unit 03050101, on right bank at downstream side of bridge on Secondary Road 2074, 2.1 mi downstream of Torrence Creek, 2.8 mi south of Hicks Crossroads, 12.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.-26.3-mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1996 to current year. Streamflow data for November 1996 to September 1997 previously published in U.S. Geological Survey Open-File Report 98-67.

GAGE.--Water-stage recorder. Datum of gage is 644.87 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, and those below 20 ft³/s which are poor. Minimum discharge for current water year not determined and may have occurred during period of missing record.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11	9.9	8.4	9.1	9.2	41	103	39	7.1	6.4	8.3	13
2	e10	9.8	8.2	8.8	10	27	24	32	6.2	5.9	25	7.9
3	10	9.6	8.3	8.8	84	19	18	27	6.9	5.5	e15	5.9
4	9.7	9.4	9.1	8.9	20	16	15	16	9.8	25	e11	5.3
5	9.5	11	15	29	16	15	15	11	7.7	39	8.3	5.0
6	9.1	11	9.8	19	194	15	13	11	6.7	21	7.2	7.2
7	9.4	9.6	8.4	11	131	13	13	10	6.2	7.2	6.2	70
8	20	9.6	9.4	10	34	13	12	9.9	6.4	5.4	5.5	275
9	25	9.2	9.2	12	25	13	12	11	6.3	4.3	5.4	71
10	11	9.0	64	11	22	12	12	21	5.9	4.0	e4.8	225
11	31	9.0	32	11	20	12	12	11	5.4	11	e4.8	36
12	13	9.0	13	9.9	88	12	51	9.5	5.3	100	76	e30
13	11	9.2	12	9.7	30	11	160	8.7	5.3	10	31	e28
14	11	8.6	167	9.5	21	11	50	9.5	59	9.3	e31	e26
15	19	8.8	28	9.3	27	13	26	9.7	38	8.9	e19	e23
16	9.8	8.9	18	9.0	31	19	22	8.6	14	7.9	e17	e20
17	9.4	8.9	30	8.8	19	13	20	8.9	7.3	15	e17	e120
18	9.3	8.9	18	15	20	13	17	8.5	8.7	72	e9.2	21
19	9.3	28	14	11	18	13	16	8.1	8.6	17	7.1	8.5
20	9.4	13	12	9.3	17	11	15	7.7	11	9.1	6.4	7.0
21	8.9	10	12	9.2	15	11	14	6.9	41	8.4	6.1	6.5
22	9.0	9.7	12	9.1	13	10	11	7.1	11	8.8	6.5	5.4
23	8.3	9.2	11	8.9	13	10	12	8.6	8.0	8.3	5.4	e4.6
24	8.8	9.2	11	8.9	13	10	12	8.8	10	7.3	4.5	e4.4
25	8.5	9.1	10	9.9	13	9.9	12	7.2	88	6.7	5.4	e25
26	9.1	8.9	9.9	10	15	9.9	15	6.1	79	7.4	5.1	e17
27	44	8.6	9.5	11	32	10	15	6.3	15	183	5.0	e47
28	15	9.2	9.6	13	44	9.9	11	5.6	13	18	4.7	444
29	30	8.9	9.3	14	52	10	11	5.6	9.2	122	4.7	e40
30	12	8.4	10	13	---	12	9.4	5.2	7.9	40	6.6	e21
31	9.8	---	8.9	10	---	64	---	14	---	13	67	---
TOTAL	420.3	301.6	607.0	347.1	1,046.2	478.7	748.4	359.5	513.9	806.8	436.2	1,619.7
MEAN	13.6	10.1	19.6	11.2	36.1	15.4	24.9	11.6	17.1	26.0	14.1	54.0
MAX	44	28	167	29	194	64	160	39	88	183	76	444
MIN	8.3	8.4	8.2	8.8	9.2	9.9	9.4	5.2	5.3	4.0	4.5	4.4
CFSM	0.52	0.38	0.74	0.43	1.37	0.59	0.95	0.44	0.65	0.99	0.54	2.05
IN.	0.59	0.43	0.86	0.49	1.48	0.68	1.06	0.51	0.73	1.14	0.62	2.29

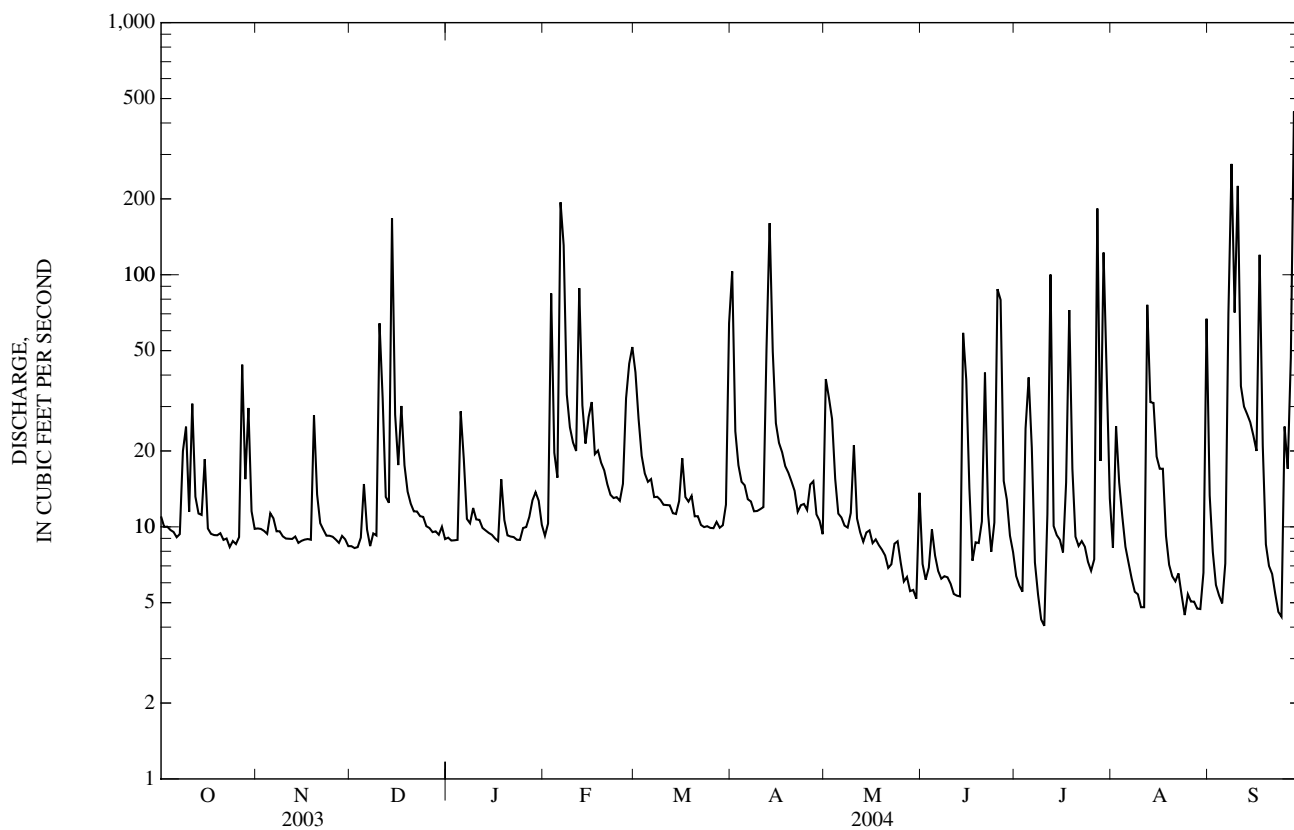
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	14.9	16.6	25.5	31.5	38.7	41.7	38.4	28.4	18.4	18.6	8.85	19.3
MAX	36.3	41.6	66.9	94.0	73.3	106	154	125	69.0	42.7	18.5	54.0
(WY)	(1998)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	3.63	3.21	6.40	10.2	15.4	12.1	8.61	8.96	5.20	4.68	2.50	5.35
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(1999)	(2002)	(1999)	(2000)	(1999)	(1999)	(1999)

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	19,968.5		7,685.4		24.6	
ANNUAL MEAN	54.7		21.0		62.4	
HIGHEST ANNUAL MEAN					10.6	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	1,270	Apr 10	444	Sep 28	1,270	Apr 10, 2003
LOWEST DAILY MEAN	5.8	Sep 17	4.0	Jul 10	0.59	Sep 25, 1999
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 15	5.0	Aug 23	0.99	Sep 20, 1999
MAXIMUM PEAK FLOW			1,250	Sep 8	2,690	May 22, 2003
MAXIMUM PEAK STAGE			11.81	Sep 8	13.55	May 22, 2003
INSTANTANEOUS LOW FLOW			NOT DETERMINED*		0.29	Sep 23, 1999
ANNUAL RUNOFF (CFSM)	2.08		0.798		0.937	
ANNUAL RUNOFF (INCHES)	28.24		10.87		12.73	
10 PERCENT EXCEEDS	97		38		44	
50 PERCENT EXCEEDS	17		11		9.5	
90 PERCENT EXCEEDS	8.9		6.4		3.3	

* See REMARKS.
e Estimated.



0214266000 MCDOWELL CREEK NEAR CHARLOTTE—Continued

PRECIPITATION RECORDS

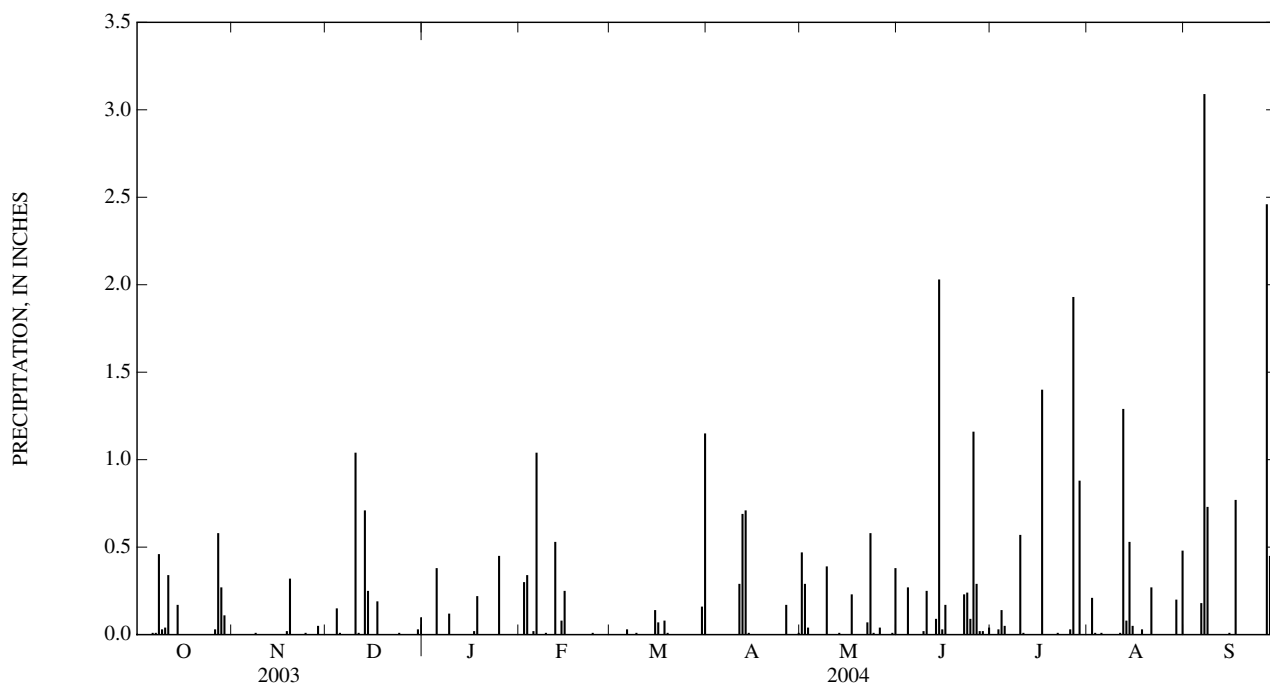
PERIOD OF RECORD.-- November 1996 to current year. Records for period November 1996 to September 1998 published in USGS OFR 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.29	0.00	0.00	0.21	0.00
3	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.04	0.00	0.03	0.01	0.00
4	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.27	0.14	0.00	0.00
5	0.00	0.00	0.01	0.38	0.02	0.00	0.00	0.00	0.00	0.05	0.01	0.00
6	0.01	0.00	0.00	0.00	1.04	0.03	0.00	0.00	0.00	0.00	0.00	0.18
7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.09
8	0.46	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
9	0.03	0.00	0.00	0.12	0.01	0.01	0.00	0.39	0.02	0.00	0.00	0.00
10	0.04	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.25	0.57	0.00	0.00
11	0.34	0.00	0.01	0.00	0.00	0.00	0.29	0.00	0.00	0.01	0.01	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.69	0.00	0.00	0.00	1.29	0.00
13	0.00	0.00	0.71	0.00	0.00	0.00	0.71	0.01	0.09	0.00	0.08	0.00
14	0.17	0.00	0.25	0.00	0.08	0.00	0.01	0.00	2.03	0.00	0.53	0.00
15	0.00	0.00	0.00	0.00	0.25	0.14	0.00	0.00	0.03	0.00	0.05	0.01
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.17	0.00	0.00	0.00
17	0.00	0.00	0.19	0.02	0.00	0.00	0.00	0.23	0.00	1.40	0.00	0.77
18	0.00	0.02	0.00	0.22	0.00	0.08	0.00	0.00	0.00	0.00	0.03	0.00
19	0.00	0.32	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.27	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.23	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.24	0.00	0.00	0.00
24	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.09	0.00	0.00	0.00
25	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	---	0.00	0.17	0.04	0.29	0.03	0.00	0.00
27	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.93	0.00	2.46
28	0.27	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.45
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.20	0.00
30	0.00	0.00	0.03	0.00	---	0.16	0.01	0.01	0.04	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	1.15	---	0.38	---	0.00	0.48	---
TOTAL	2.05	0.41	2.40	1.19	---	1.65	1.88	2.52	---	5.05	3.17	7.69



0214266075 CRN25

LOCATION.--Lat 35°21'55", long 80°53'11", Mecklenburg County, Hydrologic Unit 03050101, Gar Creek at McCoy Road near Oakdale, NC.

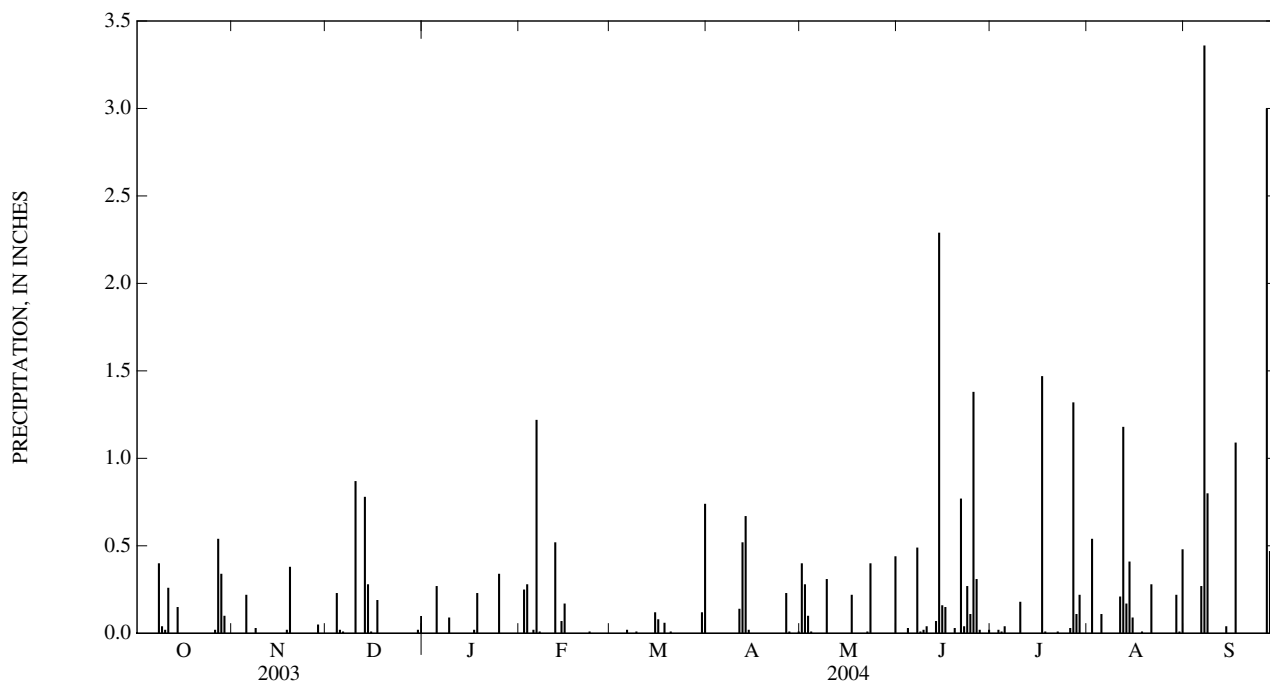
PERIOD OF RECORD.--April 1994 to current year. Records for period April 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.28	0.00	0.00	0.54	0.00
3	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00	0.02	0.00	0.00
4	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00
5	0.00	0.22	0.02	0.27	0.02	0.00	0.00	0.00	0.00	0.04	0.11	0.00
6	0.00	0.00	0.01	0.00	1.22	0.02	0.00	0.00	0.00	0.00	0.00	0.27
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.49	0.00	0.00	3.36
8	0.40	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.80
9	0.04	0.00	0.00	0.09	0.00	0.01	0.00	0.31	0.02	0.00	0.00	0.00
10	0.02	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.04	0.18	0.00	0.00
11	0.26	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.21	0.00
12	0.00	0.00	0.00	0.00	0.52	0.00	0.52	0.00	0.00	0.00	1.18	0.00
13	0.00	0.00	0.78	0.00	0.00	0.00	0.67	0.00	0.07	0.00	0.17	0.00
14	0.15	0.00	0.28	0.00	0.07	0.00	0.02	0.00	2.29	0.00	0.41	0.04
15	0.00	0.00	0.01	0.00	0.17	0.12	0.00	0.00	0.16	0.00	0.09	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.15	0.00	0.00	0.00
17	0.00	0.00	0.19	0.02	0.00	0.00	0.00	0.22	0.00	1.47	0.00	1.09
18	0.00	0.02	0.00	0.23	0.00	0.06	0.00	0.00	0.00	0.01	0.01	0.00
19	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.28	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.40	0.27	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
25	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00
26	0.02	0.00	0.00	0.00	---	0.00	0.23	0.00	0.31	0.03	0.00	0.00
27	0.54	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.32	0.00	3.00
28	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.47
29	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.00
30	0.00	0.00	0.02	0.00	---	0.12	0.01	0.00	0.02	0.00	0.01	0.00
31	0.00	---	0.00	0.00	---	0.74	---	0.44	---	0.00	0.48	---
TOTAL	1.87	0.70	2.41	0.95	---	1.16	1.60	2.17	6.21	3.42	3.71	9.03



0214267600 CRN35

LOCATION.--Lat 35°20'03", long 80°59'12", Gaston County, Hydrologic Unit 03050101, Catawba River at Mountain Island Dam, Mount Holly, NC.

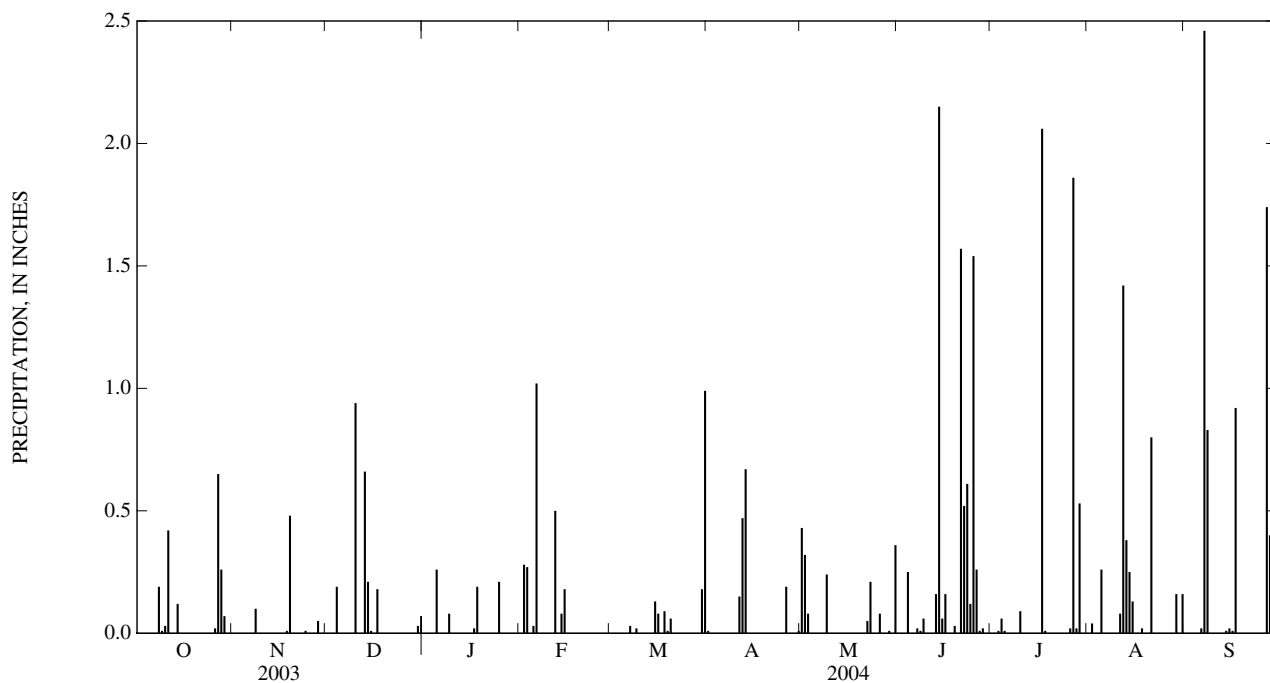
PERIOD OF RECORD.--January 1996 to current year. Records for period January 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.43	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.32	0.00	0.00	0.04	0.00
3	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.08	0.00	0.01	0.00	0.00
4	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.25	0.06	0.00	0.00
5	0.00	0.00	0.00	0.26	0.03	0.00	0.00	0.00	0.00	0.01	0.26	0.00
6	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02
7	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.00	2.46
8	0.19	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.83
9	0.01	0.00	0.00	0.08	0.00	0.02	0.00	0.24	0.06	0.00	0.00	0.00
10	0.03	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
11	0.42	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.08	0.00
12	0.00	0.00	0.00	0.00	0.50	0.00	0.47	0.00	0.00	0.00	1.42	0.00
13	0.00	0.00	0.66	0.00	0.00	0.00	0.67	0.00	0.16	0.00	0.38	0.00
14	0.12	0.00	0.21	0.00	0.08	0.00	0.00	0.00	2.15	0.00	0.25	0.01
15	0.00	0.00	0.01	0.00	0.18	0.13	0.00	0.00	0.06	0.00	0.13	0.02
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.16	0.00	0.00	0.01
17	0.00	0.00	0.18	0.02	0.00	0.00	0.00	0.00	0.00	2.06	0.00	0.92
18	0.00	0.01	0.00	0.19	0.00	0.09	0.00	0.00	0.00	0.01	0.02	0.00
19	0.00	0.48	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.00	0.80	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.52	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.61	0.00	0.00	0.00
24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00
25	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	1.54	0.00	0.00	0.00
26	0.02	0.00	0.00	0.00	---	0.00	0.19	0.08	0.26	0.02	0.00	0.00
27	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.86	0.00	1.74
28	0.26	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.40
29	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.53	0.16	0.00
30	0.00	0.00	0.03	0.00	---	0.18	0.01	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.99	---	0.36	---	0.00	0.16	---
TOTAL	1.77	0.65	2.22	0.76	---	1.59	1.50	1.78	7.55	4.67	3.70	6.41



0214269560 KILLIAN CREEK NEAR MARIPOSA, NC

LOCATION.--Lat 35°26'03", long 81°01'48", Lincoln County, Hydrologic Unit 03050101, on right bank, 1,000 ft upstream from Forney Creek, 1.5 mi northwest of Lowesville, 1.7 mi upstream from bridge on Secondary Road 1511, and 2.4 mi northeast of Mariposa.

DRAINAGE AREA.--36.4 mi².

PERIOD OF RECORD.-- October 1990 to June 1993, December 1994 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 643.085 ft above NGVD of 1929 (levels by Duke Power Co). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Station was established to study low-flow conditions for Duke Power Co., no structure exists near the site for measuring high-stage flow; therefore, a peak flow was not determined to coincide with the peak stage for the year. Missing values on the daily values table are days when the flow exceeded the rating. Minimum discharge for current water year also occurred July 26 and Aug. 11. Minimum discharges may be affected by diversions by Duke Power. No flow also occurred Aug. 14, Sept. 10-13, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	21	24	23	39	55	43	14	19	12	9.1
2	22	18	20	24	23	34	35	56	12	15	13	8.8
3	20	18	20	24	---	30	30	49	11	25	14	8.5
4	20	18	21	24	45	28	27	36	11	25	10	8.1
5	20	20	27	26	31	27	25	28	12	28	9.5	7.9
6	20	17	24	27	---	28	24	25	11	17	8.9	8.0
7	20	22	28	23	---	26	24	23	12	14	7.9	---
8	21	20	38	23	50	24	24	21	12	12	7.6	---
9	35	19	22	25	38	24	23	20	13	11	7.4	---
10	26	18	42	24	35	24	22	24	11	10	7.3	33
11	28	18	56	23	32	24	22	20	10	16	7.0	25
12	25	18	34	24	49	24	34	20	9.5	11	---	21
13	23	18	30	24	47	23	---	19	10	10	---	19
14	22	17	---	23	37	23	---	18	17	9.8	18	18
15	23	17	53	23	37	24	43	18	24	8.7	23	17
16	19	18	39	22	41	28	39	17	20	8.2	20	17
17	19	18	40	22	34	27	33	21	13	8.4	14	---
18	19	18	35	26	33	25	29	19	12	12	17	42
19	19	30	33	24	31	25	28	17	13	14	14	22
20	19	29	30	22	30	23	27	16	16	9.7	12	18
21	19	24	29	22	29	24	26	16	38	8.1	15	16
22	19	23	28	22	27	22	24	14	23	7.9	15	15
23	17	22	28	22	26	21	23	13	15	8.7	12	15
24	17	22	28	22	25	21	22	12	14	7.9	11	14
25	17	22	26	23	24	21	22	12	23	7.1	13	14
26	18	21	26	25	25	21	23	12	46	17	10	13
27	23	22	25	25	29	21	25	13	22	---	9.9	16
28	21	22	25	24	30	21	21	12	21	18	9.2	---
29	21	22	25	25	38	21	20	12	17	29	9.1	---
30	19	21	26	26	---	23	19	12	16	31	10	42
31	18	---	24	25	---	35	---	15	---	14	9.2	---

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1991 - 2004[@]

LOWEST DAILY MEAN
MAXIMUM PEAK STAGE
INSTANTANEOUS LOW FLOW

15 Sep 20

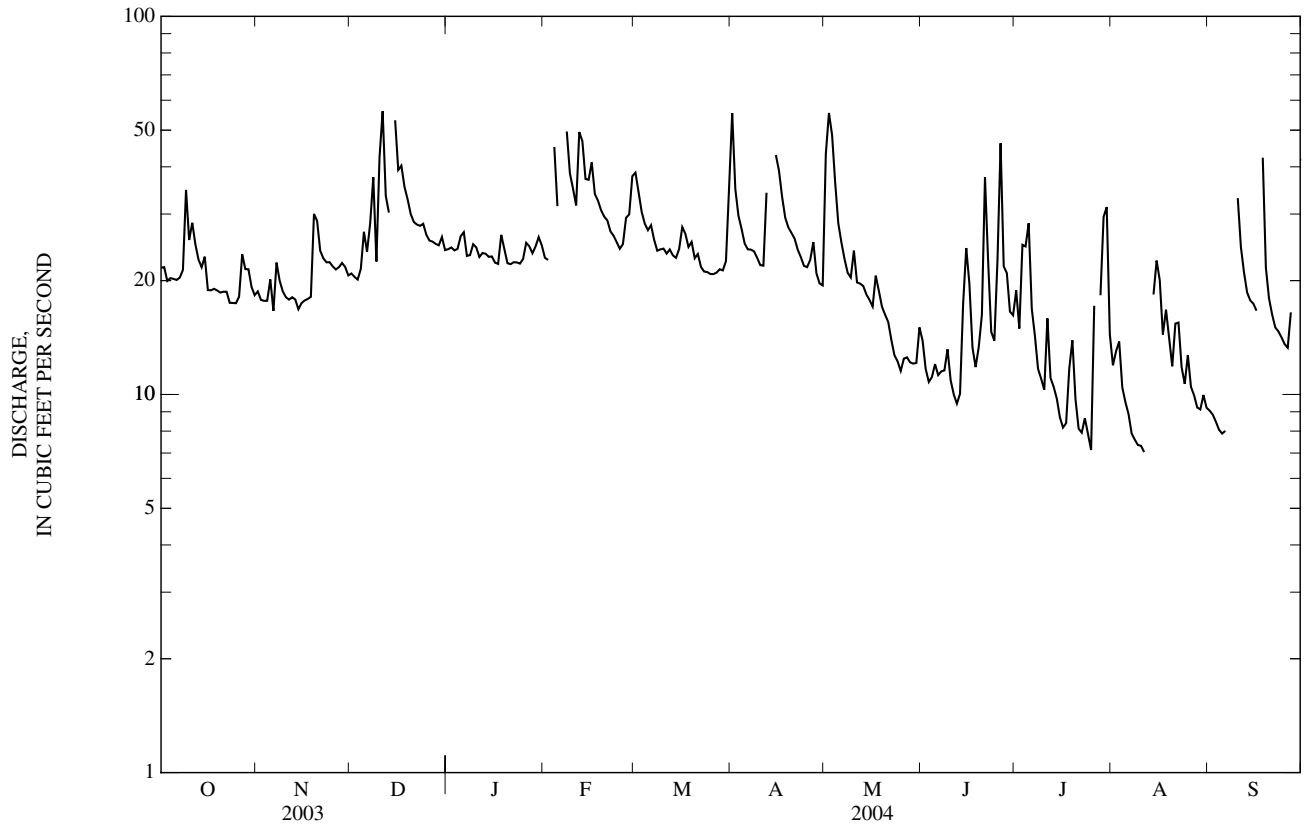
7.0 Aug 11
7.52 Sep 28
6.8* Jul 25

0.00 Aug 13, 2002
15.25 Apr 29, 1997
0.00* Aug 13, 2002

[@] See PERIOD OF RECORD.

* See REMARKS.

0214269560 KILLIAN CREEK NEAR MARIPOSA, NC—Continued



0214269560 KILLIAN CREEK NEAR MARIPOSA, NC—Continued

PRECIPITATION RECORDS

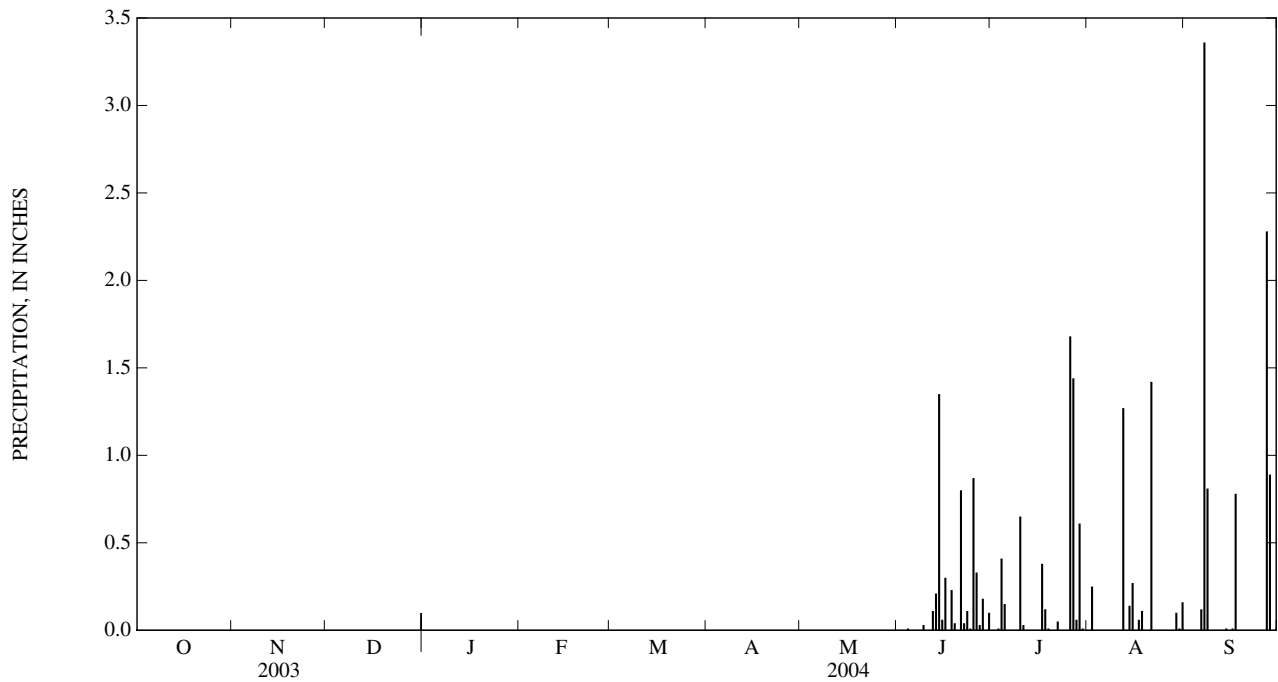
PERIOD OF RECORD.--June 2004 to September 2004.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00
2	---	---	---	---	---	---	---	---	0.00	0.00	0.25	0.00
3	---	---	---	---	---	---	---	---	0.00	0.01	0.00	0.00
4	---	---	---	---	---	---	---	---	0.01	0.41	0.00	0.00
5	---	---	---	---	---	---	---	---	0.00	0.15	0.00	0.00
6	---	---	---	---	---	---	---	---	0.00	0.00	0.00	0.12
7	---	---	---	---	---	---	---	---	0.00	0.00	0.00	3.36
8	---	---	---	---	---	---	---	---	0.00	0.00	0.00	0.81
9	---	---	---	---	---	---	---	---	0.03	0.00	0.00	0.00
10	---	---	---	---	---	---	---	---	0.00	0.65	0.00	0.00
11	---	---	---	---	---	---	---	---	0.00	0.03	0.00	0.00
12	---	---	---	---	---	---	---	---	0.11	0.00	1.27	0.00
13	---	---	---	---	---	---	---	---	0.21	0.00	0.00	0.00
14	---	---	---	---	---	---	---	---	1.35	0.00	0.14	0.01
15	---	---	---	---	---	---	---	---	0.06	0.00	0.27	0.00
16	---	---	---	---	---	---	---	---	0.30	0.00	0.00	0.01
17	---	---	---	---	---	---	---	---	0.00	0.38	0.06	0.78
18	---	---	---	---	---	---	---	---	0.23	0.12	0.11	0.00
19	---	---	---	---	---	---	---	---	0.04	0.01	0.00	0.00
20	---	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00
21	---	---	---	---	---	---	---	---	0.80	0.00	1.42	0.00
22	---	---	---	---	---	---	---	---	0.04	0.05	0.00	0.00
23	---	---	---	---	---	---	---	---	0.11	0.00	0.00	0.00
24	---	---	---	---	---	---	---	---	0.01	0.00	0.00	0.00
25	---	---	---	---	---	---	---	---	0.87	0.00	0.00	0.00
26	---	---	---	---	---	---	---	---	0.33	1.68	0.00	0.00
27	---	---	---	---	---	---	---	---	0.03	1.44	0.00	2.28
28	---	---	---	---	---	---	---	---	0.18	0.06	0.00	0.89
29	---	---	---	---	---	---	---	---	0.00	0.61	0.10	0.00
30	---	---	---	---	---	---	---	---	0.10	0.01	0.01	0.00
31	---	---	---	---	---	---	---	---	---	0.00	0.16	---
TOTAL	---	---	---	---	---	---	---	---	4.81	5.61	3.79	8.26



02142900 LONG CREEK NEAR PAW CREEK, NC

LOCATION.--Lat 35°19'43", long 80°54'35", Mecklenburg County, Hydrologic Unit 03050101, on right bank at upstream side of bridge on Secondary Road 2042, 600 ft downstream of McIntyre Creek, 1.2 mi upstream from Gutter Branch, and 3.6 mi north of Paw Creek.

DRAINAGE AREA.--16.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1965 to current year.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 647.69 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for period of record based on discharge measurement made Aug. 15, 2002, and may be lower.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.3	2.1	6.9	4.0	39	40	21	9.1	3.7	5.7	4.0
2	2.5	3.1	2.0	4.4	3.8	27	19	30	2.9	3.4	25	3.3
3	2.4	2.8	1.9	3.8	36	16	14	27	2.6	3.7	17	2.6
4	2.4	2.9	2.1	3.6	14	13	11	e14	2.9	3.3	3.4	2.2
5	2.2	2.9	7.8	22	9.3	10	9.2	6.8	2.3	3.2	16	1.9
6	2.2	2.6	3.0	18	171	9.5	8.7	5.1	1.9	8.7	e5.0	1.9
7	2.5	2.5	2.4	7.3	58	7.2	8.0	4.1	10	2.6	e3.0	336
8	6.6	2.5	2.2	5.5	17	5.6	7.4	3.9	6.3	2.1	e3.0	481
9	12	2.3	2.1	6.8	12	4.8	6.4	8.7	2.3	2.0	e2.8	24
10	3.6	2.1	37	6.2	10	4.3	6.2	17	1.9	1.9	e2.8	12
11	23	2.2	20	4.5	9.0	4.0	5.7	4.8	1.7	4.5	2.8	9.0
12	7.0	2.2	6.5	4.5	47	3.8	31	4.4	1.6	12	50	7.3
13	4.1	2.1	6.5	4.5	20	3.4	91	5.1	1.8	2.2	25	6.5
14	3.8	2.2	103	4.3	14	3.1	34	3.6	95	1.9	45	5.6
15	8.1	2.3	20	4.1	21	3.2	22	3.1	46	1.5	15	4.5
16	3.4	2.4	11	3.7	20	9.1	18	2.7	35	1.3	8.6	4.2
17	3.2	2.3	21	3.6	11	3.5	13	3.4	8.0	19	5.2	121
18	2.9	2.3	12	11	9.7	5.7	10	3.2	4.3	117	4.6	21
19	2.9	16	8.6	5.7	8.8	11	9.0	3.0	3.5	20	4.2	9.5
20	2.8	6.3	6.2	3.9	8.0	5.0	7.8	3.0	3.2	5.7	3.7	7.8
21	2.8	3.2	5.1	3.6	7.7	5.5	6.8	3.0	87	3.8	8.0	5.0
22	2.8	2.7	4.9	3.5	5.7	4.7	5.0	3.1	34	3.1	8.7	4.3
23	2.5	2.5	4.9	3.6	5.0	4.4	4.9	4.5	42	2.5	3.8	4.0
24	2.6	2.4	4.9	3.6	5.0	4.4	4.3	8.2	36	2.2	3.3	3.8
25	2.5	2.3	4.3	4.2	4.5	5.3	3.8	3.2	150	2.0	3.1	3.7
26	2.6	2.3	4.1	4.7	5.8	4.3	6.4	3.0	77	1.9	2.8	3.5
27	4.5	2.3	4.2	4.7	21	4.5	9.2	3.6	e42	113	3.0	89
28	5.7	3.4	4.1	9.6	37	4.7	3.8	3.5	e14	45	2.8	772
29	23	3.4	3.9	9.7	42	4.4	2.9	3.1	6.3	45	2.9	24
30	4.8	2.1	4.2	8.6	---	6.8	2.9	3.1	4.1	19	11	12
31	3.6	---	3.8	5.2	---	27	---	19	---	5.5	8.5	---
TOTAL	157.7	93.9	325.8	195.3	637.3	264.2	421.4	231.2	734.7	462.7	305.7	1,986.6
MEAN	5.09	3.13	10.5	6.30	22.0	8.52	14.0	7.46	24.5	14.9	9.86	66.2
MAX	23	16	103	22	171	39	91	30	150	117	50	772
MIN	2.2	2.1	1.9	3.5	3.8	3.1	2.9	2.7	1.6	1.3	2.8	1.9
CFSM	0.31	0.19	0.64	0.38	1.34	0.52	0.86	0.45	1.49	0.91	0.60	4.04
IN.	0.36	0.21	0.74	0.44	1.45	0.60	0.96	0.52	1.67	1.05	0.69	4.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

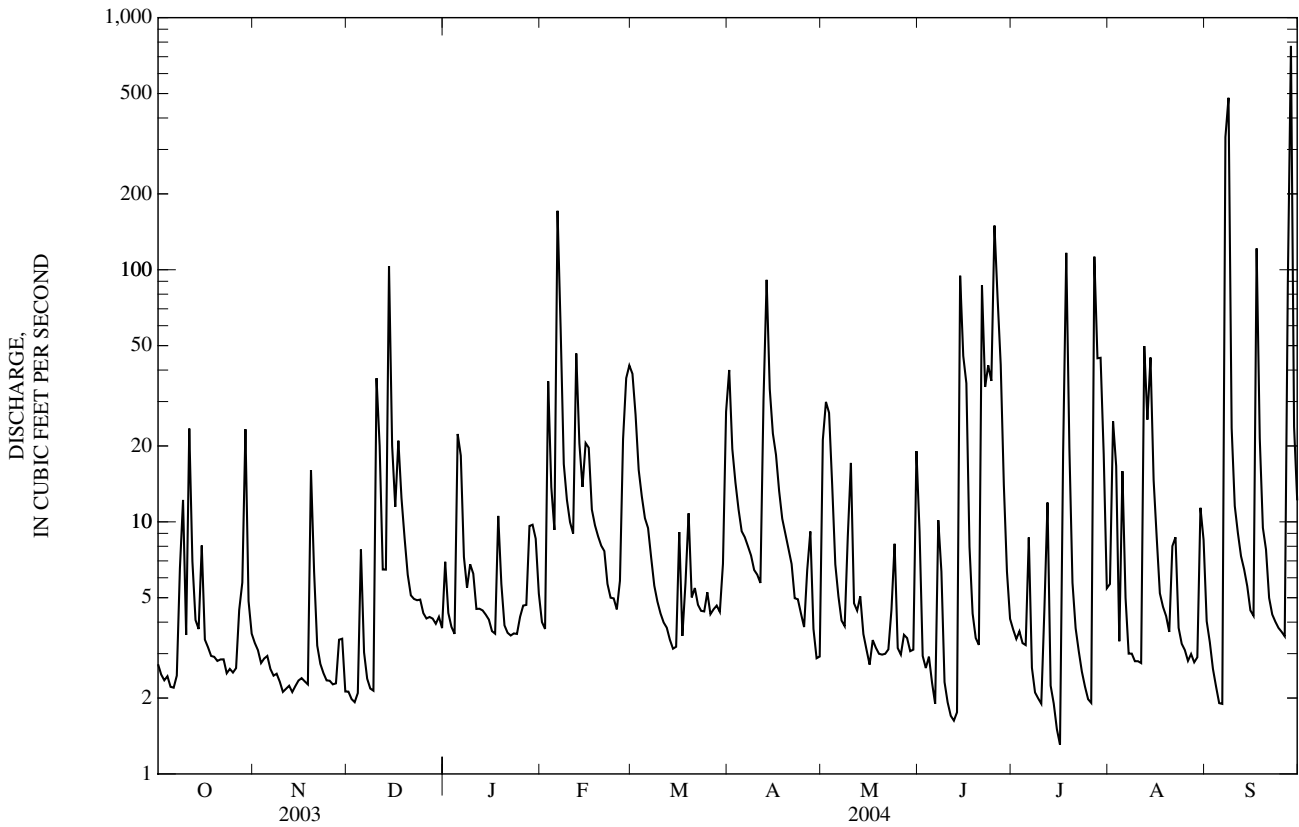
	13.7	14.1	18.9	28.5	32.7	34.7	20.9	16.7	12.7	9.13	9.65	9.71
MEAN	13.7	14.1	18.9	28.5	32.7	34.7	20.9	16.7	12.7	9.13	9.65	9.71
MAX	70.8	91.3	59.5	74.4	78.4	86.8	87.6	101	66.5	58.4	59.0	66.2
(WY)	(1991)	(1986)	(1984)	(1993)	(1979)	(1993)	(2003)	(1975)	(1982)	(1997)	(1967)	(2004)
MIN	1.16	1.39	2.53	4.04	6.42	8.31	4.38	3.60	1.68	1.08	1.07	1.27
(WY)	(2002)	(2002)	(1966)	(1981)	(2002)	(1999)	(1967)	(1981)	(1986)	(1986)	(2001)	(1986)

02142900 LONG CREEK NEAR PAW CREEK, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	12,729.6		5,816.5		18.5	
ANNUAL MEAN	34.9		15.9		40.8	
HIGHEST ANNUAL MEAN					6.45	2003
LOWEST ANNUAL MEAN					0.03	2002
HIGHEST DAILY MEAN	1,190	May 22	772	Sep 28	1,600	Oct 9, 1976
LOWEST DAILY MEAN	1.9	Dec 3	1.3	Jul 16	0.06	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	2.2	Nov 9	2.2	Nov 9	0.06	Aug 9, 2002
MAXIMUM PEAK FLOW			1,740	Sep 28	4,300	Jun 18, 1982
MAXIMUM PEAK STAGE			11.30	Sep 28	13.45	Jul 23, 1997
INSTANTANEOUS LOW FLOW			1.1	Jul 16	0.03*	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.13		0.969		1.13	
ANNUAL RUNOFF (INCHES)	28.87		13.19		15.32	
10 PERCENT EXCEEDS	55		27		30	
50 PERCENT EXCEEDS	11		4.6		6.5	
90 PERCENT EXCEEDS	2.6		2.3		1.8	

* See REMARKS.

e Estimated.



02142900 LONG CREEK NEAR PAW CREEK, NC—Continued

PRECIPITATION RECORDS

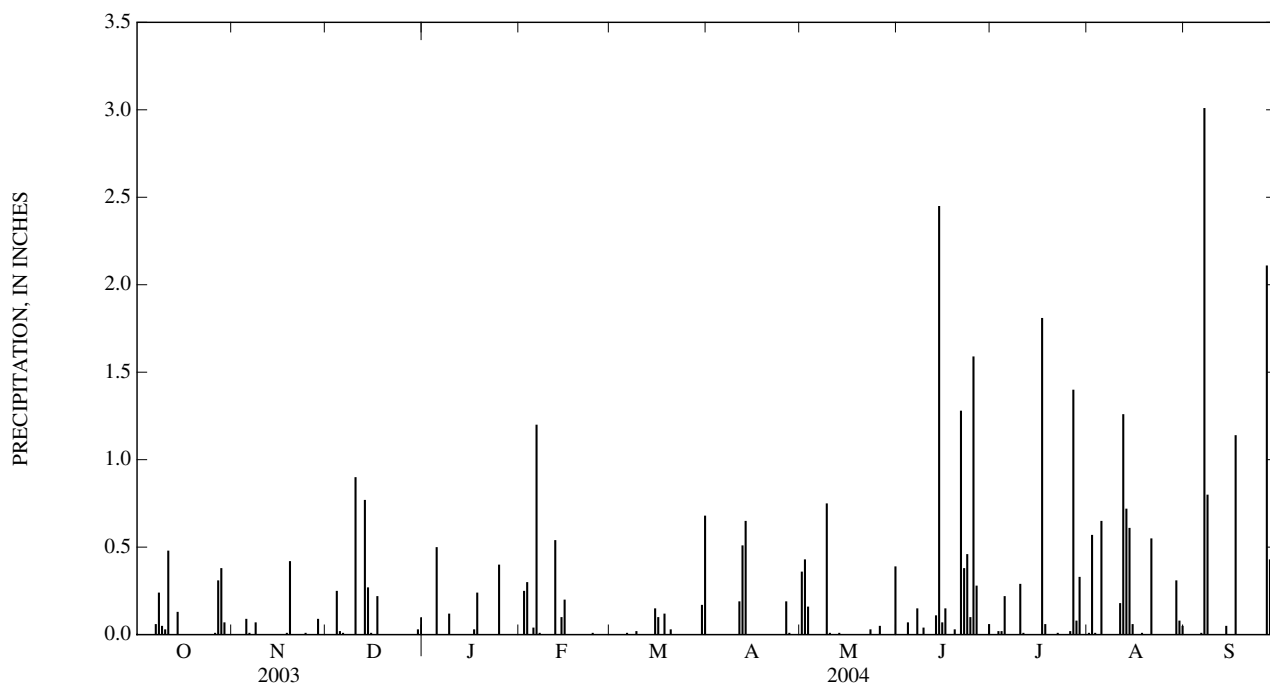
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.01	0.00
2	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.43	0.00	0.00	0.57	0.00
3	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.16	0.00	0.02	0.01	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.07	0.02	0.00	0.00
5	0.00	0.09	0.02	0.50	0.04	0.00	0.00	0.00	0.00	0.22	0.65	0.00
6	0.00	0.01	0.01	0.00	1.20	0.01	0.00	0.00	0.00	0.00	0.00	0.01
7	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.15	0.00	0.00	3.01
8	0.24	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
9	0.05	0.00	0.00	0.12	0.00	0.02	0.00	0.75	0.04	0.00	0.00	0.00
10	0.03	0.00	0.90	0.00	0.00	0.00	0.00	0.01	0.00	0.29	0.00	0.00
11	0.48	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.01	0.18	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	0.51	0.00	0.00	0.00	1.26	0.00
13	0.00	0.00	0.77	0.00	0.00	0.00	0.65	0.01	0.11	0.00	0.72	0.00
14	0.13	0.00	0.27	0.00	0.10	0.00	0.00	0.00	2.45	0.00	0.61	0.05
15	0.00	0.00	0.01	0.00	0.20	0.15	0.00	0.00	0.07	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.15	0.00	0.00	0.00
17	0.00	0.00	0.22	0.03	0.00	0.00	0.00	0.00	0.00	1.81	0.00	1.14
18	0.00	0.01	0.00	0.24	0.00	0.12	0.00	0.00	0.00	0.06	0.01	0.00
19	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.55	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.46	0.00	0.00	0.00
24	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.10	0.00	0.00	0.00
25	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	---	0.00	0.19	0.05	0.28	0.02	0.00	0.00
27	0.31	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.40	0.00	2.11
28	0.38	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.43
29	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.31	0.01
30	0.00	0.00	0.03	0.00	---	0.17	0.00	0.00	0.06	0.00	0.08	0.00
31	0.00	---	0.00	0.00	---	0.68	---	0.39	---	0.00	0.05	---
TOTAL	1.76	0.70	2.48	1.29	---	1.28	1.55	2.19	7.22	4.27	5.07	7.56



0214291555 LONG CREEK NEAR RHYNE, NC

LOCATION.--Lat 35°18'02", long 80°58'22", Mecklenburg County, Hydrologic Unit 03050101, on right bank 1.6 mi downstream of Gum Branch, .6 mi upstream from bridge on NC Highway 27 and 0.55 mi northwest of Rhyne.

DRAINAGE AREA.--31.49 mi².

PERIOD OF RECORD.-- October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage 610 ft above NGVD of 1929, from topographic map. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for current water year and period of record affected by regulation. Minimum discharge for period of record also occurred on Sept. 3, 2001.

REVISIONS.--The maximum discharge for the water year 2001 has been revised to 1,710 ft³/s, Mar. 29, 2001, gage height, 9.45 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.2	6.7	13	10	83	60	25	6.4	14	10	7.3
2	9.8	7.0	6.3	12	10	54	18	36	4.2	12	25	6.1
3	9.5	6.8	6.3	11	79	31	14	39	3.6	11	23	5.2
4	9.6	7.1	7.0	9.4	24	25	13	20	3.6	10	8.8	4.8
5	9.6	8.6	13	35	16	21	13	11	4.0	11	17	4.4
6	9.6	7.9	8.4	33	268	20	12	9.2	3.5	15	14	4.4
7	10	7.5	7.3	12	204	18	11	8.2	3.5	8.1	7.5	333
8	12	7.5	7.6	11	43	17	11	7.9	11	7.8	6.7	714
9	25	7.2	7.5	11	29	16	10	9.2	4.5	7.0	6.5	63
10	13	6.8	72	11	25	16	9.9	26	4.1	5.8	6.0	28
11	44	7.1	52	9.4	22	15	10	8.6	3.5	7.8	7.2	20
12	16	7.4	17	9.5	106	15	36	7.5	3.1	11	106	17
13	12	7.6	20	9.3	47	14	162	8.4	3.3	8.7	53	16
14	11	7.7	197	9.0	29	13	50	7.1	132	6.0	154	15
15	15	7.8	38	11	39	14	24	6.5	95	5.2	30	13
16	10	8.2	21	8.5	41	22	18	6.0	34	4.9	16	13
17	9.6	8.4	34	8.5	24	17	15	6.4	13	16	12	168
18	9.7	9.0	22	16	20	14	14	5.8	9.0	151	8.8	46
19	9.7	27	16	13	18	17	14	5.4	6.9	18	8.1	17
20	9.7	12	14	9.5	17	13	12	5.1	6.0	11	7.1	14
21	9.6	7.3	13	9.0	17	14	11	4.9	215	9.9	13	12
22	10	6.9	12	11	15	12	10	4.7	35	8.5	17	10
23	11	6.6	13	9.7	15	12	10	4.6	84	7.8	7.6	9.5
24	11	6.9	13	8.9	15	12	9.3	7.7	55	7.1	6.5	9.3
25	8.3	6.9	12	9.6	14	11	8.8	4.3	243	6.5	6.0	9.1
26	7.8	6.9	11	11	16	11	9.4	4.3	252	6.4	6.0	8.9
27	14	6.9	11	10	37	11	13	4.7	35	174	5.6	47
28	14	7.5	11	14	75	11	8.8	4.1	22	72	5.6	830
29	36	9.5	11	16	93	11	8.1	3.8	14	112	5.7	66
30	9.8	6.9	12	15	---	12	8.1	3.7	15	25	15	30
31	7.4	---	11	12	---	34	---	12	---	12	12	---
TOTAL	403.7	248.1	703.1	388.3	1,368	606	623.4	317.1	1,324.2	782.5	626.7	2,541.0
MEAN	13.0	8.27	22.7	12.5	47.2	19.5	20.8	10.2	44.1	25.2	20.2	84.7
MAX	44	27	197	35	268	83	162	39	252	174	154	830
MIN	7.4	6.6	6.3	8.5	10	11	8.1	3.7	3.1	4.9	5.6	4.4
CFSM	0.41	0.26	0.72	0.40	1.50	0.62	0.66	0.32	1.40	0.80	0.64	2.69
IN.	0.48	0.29	0.83	0.46	1.62	0.72	0.74	0.37	1.56	0.92	0.74	3.00

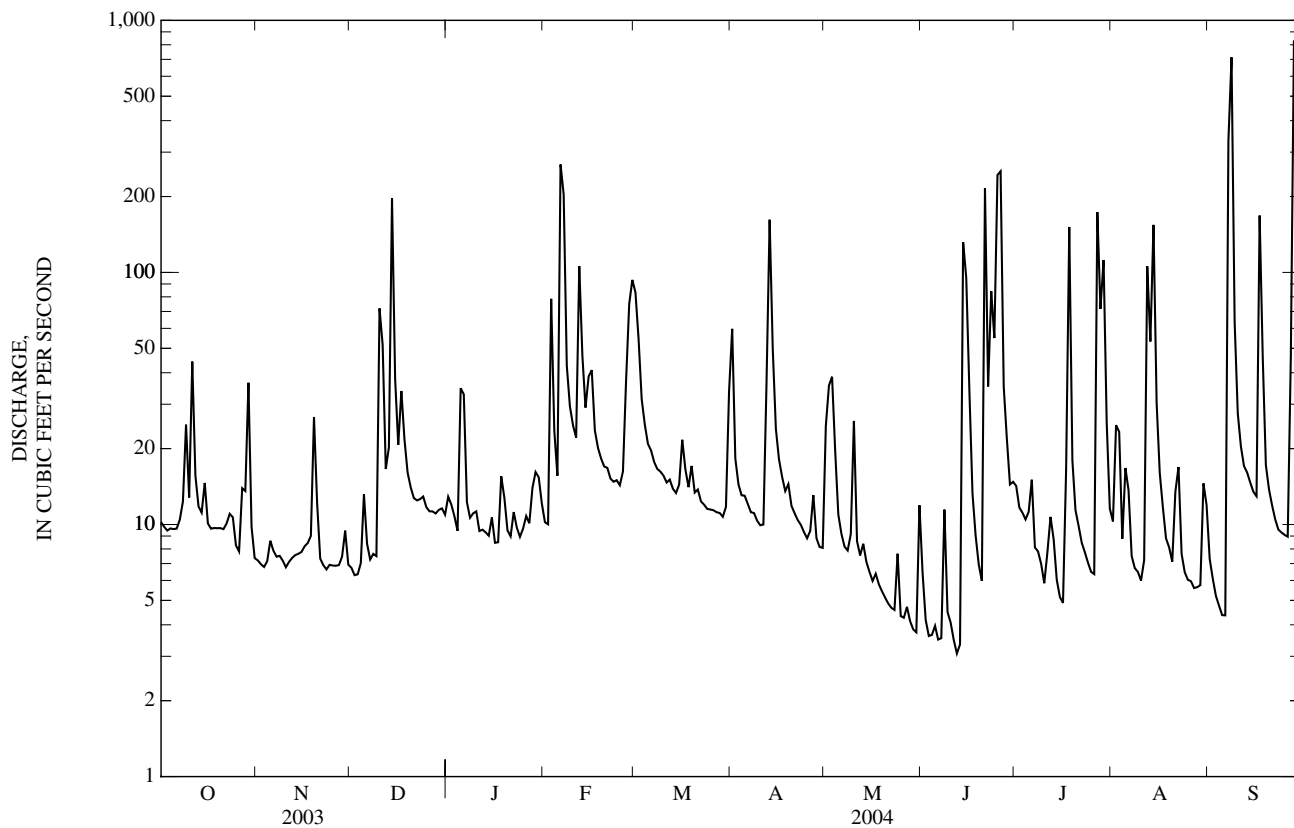
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	13.1	13.8	25.3	25.6	36.6	55.5	43.6	31.7	28.0	20.3	15.4	24.6
MAX	31.1	45.1	87.5	39.8	68.8	146	163	146	96.6	56.5	47.5	84.7
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	1.60	3.29	6.29	9.69	13.9	13.0	9.02	7.61	5.00	4.66	1.43	5.41
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2001)	(2002)	(2001)	(2001)	(1999)

0214291555 LONG CREEK NEAR RHYNE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	24,936.3		9,932.1		27.7	
ANNUAL MEAN	68.3		27.1		78.4	
HIGHEST ANNUAL MEAN					10.7	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	2,390	May 22	830	Sep 28	2,390	May 22, 2003
LOWEST DAILY MEAN	5.5	Sep 20	3.1	Jun 12	0.12	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	6.0	Sep 15	4.1	Jun 1	0.23	Aug 8, 2002
MAXIMUM PEAK FLOW			1,310	Sep 28	3,570	May 22, 2003
MAXIMUM PEAK STAGE			8.66	Sep 28	12.04	May 22, 2003
INSTANTANEOUS LOW FLOW			2.3*	Jul 12	0.02*	Sep 2, 2001
ANNUAL RUNOFF (CFSM)	2.17		0.862		0.880	
ANNUAL RUNOFF (INCHES)	29.46		11.73		11.96	
10 PERCENT EXCEEDS	131		46		47	
50 PERCENT EXCEEDS	23		11		8.6	
90 PERCENT EXCEEDS	7.5		6.0		2.3	

* See REMARKS.



0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'25", long 80°58'28", Mecklenburg County, Hydrologic Unit 03050101, on left bank on downstream side of culvert at U.S. Highway 74, 0.7 mi downstream of Interstate Highway 85, and 2.5 mi northwest of airport in Charlotte.

DRAINAGE AREA.--10.8 mi².

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 568.92 ft above NGVD of 1929 (Mecklenburg County benchmark). Prior to October 1, 1999 at same site at datum 570.92 ft. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 24, 2002. Minimum discharge for water year also occurred Aug. 11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.9	2.5	2.4	2.5	20	21	7.2	2.1	5.1	14	3.6
2	2.8	3.0	2.5	2.3	2.8	13	6.6	29	1.5	4.4	9.1	2.9
3	2.7	3.0	2.6	2.5	24	8.4	5.3	e10	1.3	3.6	4.0	2.1
4	2.4	3.0	2.8	2.6	8.9	6.8	4.6	4.9	1.5	3.5	1.5	2.0
5	2.2	3.2	4.9	13	6.7	6.0	4.1	3.7	1.4	3.0	1.3	1.9
6	2.2	3.2	2.8	6.4	93	6.0	3.8	3.2	1.2	6.3	1.6	4.4
7	3.5	3.0	2.3	3.3	32	5.3	3.7	2.8	5.9	3.6	0.97	122
8	4.9	3.0	2.4	2.6	10	4.8	3.9	2.8	4.0	3.3	0.91	135
9	4.9	3.0	2.3	3.2	7.8	4.8	3.6	2.8	2.9	3.1	0.82	15
10	2.6	3.0	31	3.1	6.3	4.6	3.4	4.5	e1.7	5.2	0.74	7.7
11	20	2.9	10	2.3	5.5	3.9	3.3	2.4	e1.4	e22	0.79	5.5
12	4.0	2.9	3.7	2.6	27	4.1	14	3.0	e5.0	e6.3	34	4.1
13	3.5	2.8	6.8	2.4	11	3.8	43	2.4	e20	3.5	25	3.4
14	3.2	2.6	55	2.4	9.3	3.5	11	2.2	e90	3.0	90	3.3
15	3.1	3.0	9.9	2.6	11	3.9	6.7	2.1	19	2.7	10	2.9
16	3.1	2.9	6.2	2.5	9.0	6.8	5.4	2.0	8.2	2.4	6.0	2.7
17	3.1	2.8	10	2.4	6.4	4.6	5.0	2.1	4.3	73	4.1	46
18	3.1	2.9	5.6	5.7	6.2	4.7	4.2	2.0	3.1	67	3.3	9.2
19	3.0	13	4.3	3.1	5.9	7.0	4.1	1.9	2.6	6.8	2.8	4.8
20	2.9	3.6	3.5	2.5	5.3	4.3	3.6	1.8	2.0	3.9	2.5	4.0
21	3.0	3.0	3.6	2.6	5.5	5.1	3.6	1.8	76	2.7	5.0	3.1
22	2.9	2.7	3.5	2.6	4.5	4.2	e3.7	1.8	8.2	2.1	4.7	2.6
23	2.4	2.4	3.2	2.4	4.9	3.4	3.2	1.8	31	1.8	2.4	2.4
24	2.5	2.4	3.8	2.4	4.8	3.5	3.2	1.8	16	1.4	3.1	2.3
25	2.5	2.3	2.9	2.8	4.3	3.5	2.9	1.6	103	1.3	2.0	2.1
26	2.7	2.4	2.8	2.9	4.9	3.6	3.9	1.6	56	1.2	1.8	2.1
27	4.5	2.4	2.5	3.1	14	3.6	4.3	1.6	11	56	1.8	27
28	4.7	3.1	2.4	5.3	22	3.6	2.7	1.6	7.9	5.9	1.7	102
29	12	3.4	2.4	4.2	24	3.7	2.7	1.9	5.7	23	2.3	11
30	3.5	3.0	2.9	3.5	---	4.9	2.7	1.4	4.5	6.4	8.5	5.4
31	3.2	---	2.4	3.0	---	15	---	9.8	---	2.4	15	---
TOTAL	124.0	96.8	203.5	104.7	379.5	180.4	193.2	119.5	498.4	335.9	261.73	542.5
MEAN	4.00	3.23	6.56	3.38	13.1	5.82	6.44	3.85	16.6	10.8	8.44	18.1
MAX	20	13	55	13	93	20	43	29	103	73	90	135
MIN	2.2	2.3	2.3	2.3	2.5	3.4	2.7	1.4	1.2	1.2	0.74	1.9
CFSM	0.37	0.30	0.61	0.31	1.21	0.54	0.60	0.36	1.54	1.00	0.78	1.67
IN.	0.43	0.33	0.70	0.36	1.31	0.62	0.67	0.41	1.72	1.16	0.90	1.87

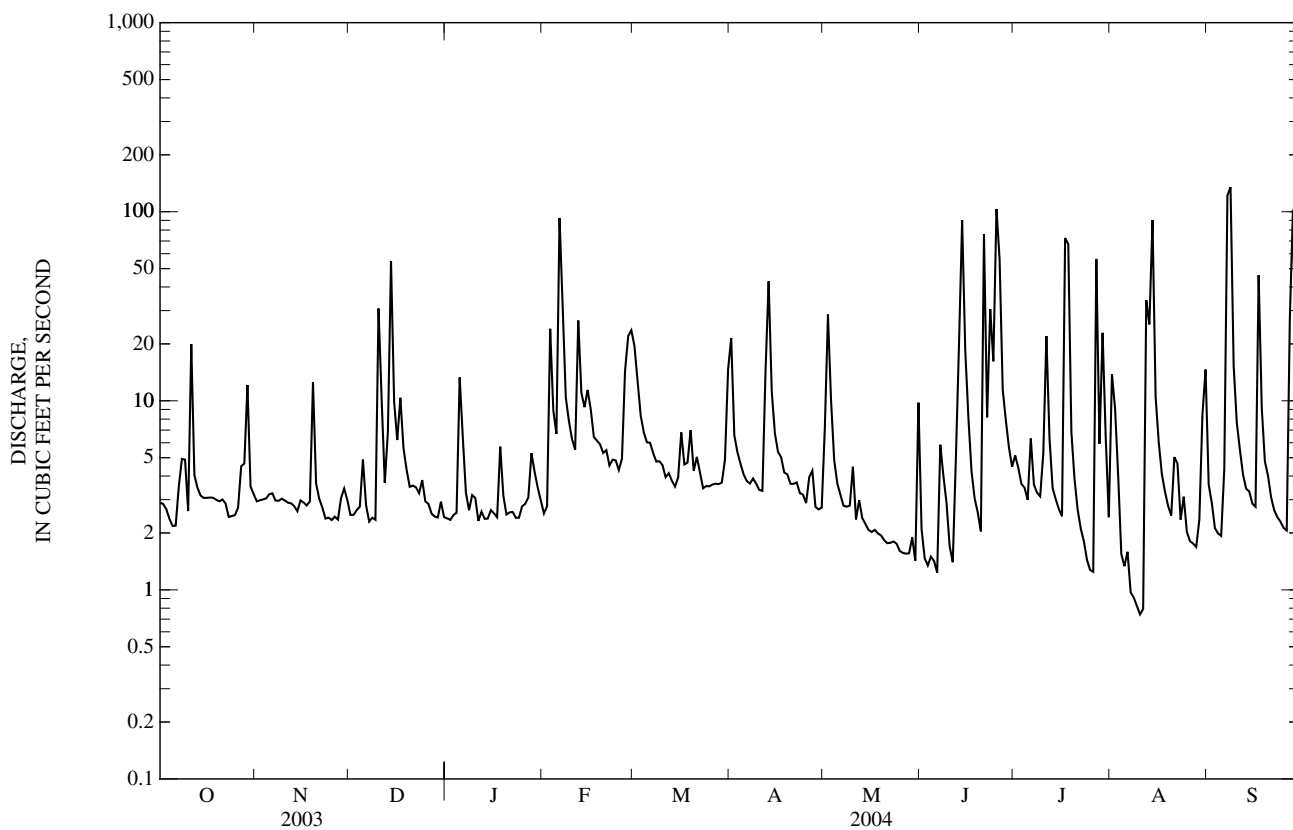
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

MEAN	7.36	7.80	8.15	12.6	16.2	16.2	14.7	10.8	9.24	8.39	6.66	6.61
MAX	23.0	26.1	23.7	28.9	33.4	39.7	44.9	55.8	29.6	35.2	24.2	18.1
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(2004)
MIN	0.73	0.59	2.27	2.79	3.27	4.54	3.29	3.21	1.59	1.35	0.33	2.22
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2001)	(2000)	(2001)	(2001)	(2001)	(1999)

0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	7,841.6		3,040.13			
ANNUAL MEAN	21.5		8.31		10.4	
HIGHEST ANNUAL MEAN					25.1	2003
LOWEST ANNUAL MEAN					3.93	2001
HIGHEST DAILY MEAN	800	May 22	135	Sep 8	835	Jul 23, 1997
LOWEST DAILY MEAN	1.7	Jan 16	0.74	Aug 10	0.06	Oct 30, 2001
ANNUAL SEVEN-DAY MINIMUM	1.9	Jan 14	1.0	Aug 5	0.11	Oct 29, 2001
MAXIMUM PEAK FLOW			960	Jul 17	2,740	Jul 23, 1997
MAXIMUM PEAK STAGE			9.53	Jul 17	10.21	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.64*	Aug 10	0.03*	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	1.99		0.769		0.960	
ANNUAL RUNOFF (INCHES)	27.01		10.47		13.04	
10 PERCENT EXCEEDS	51		15		19	
50 PERCENT EXCEEDS	6.6		3.5		3.4	
90 PERCENT EXCEEDS	2.6		2.0		0.86	

* See REMARKS.
e Estimated.



0214297160 BEAVERDAM CREEK ABOVE WINDY GAP ROAD NEAR SHOPTON, NC

LOCATION.--Lat 35°10'11", long 80°59'16", Mecklenburg County, Hydrologic Unit 03050101, on right bank 200 feet above Windy Gap Road, and 1.6 mi west of North Carolina Highway 160 and Shopton.

DRAINAGE AREA.--4.47 mi².

PERIOD OF RECORD.--January 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 560 ft above NGVD of 1929 (from topographic map). Radio telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred June 4. Peak discharge for period of record not determined due to variable backwater from Lake Wylie.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.88	0.67	0.54	0.88	0.79	9.4	6.1	1.1	0.20	0.66	0.60	0.49
2	0.81	0.70	0.54	1.0	0.77	9.1	2.6	4.1	0.12	0.80	0.52	0.46
3	0.75	0.69	0.61	0.97	2.4	4.6	2.1	1.6	0.11	6.1	0.50	0.44
4	0.83	0.71	0.79	1.0	1.2	3.0	1.8	0.73	0.14	2.4	0.44	0.43
5	0.76	0.80	0.85	1.3	0.92	2.5	1.5	0.61	0.13	e1.4	0.45	0.41
6	0.75	0.67	0.62	1.2	1.4	2.3	1.4	0.56	0.11	e0.91	0.45	0.60
7	0.75	0.62	0.59	1.1	1.1	2.0	1.3	0.50	0.13	e0.76	0.42	8.9
8	0.94	0.65	0.54	1.0	3.5	1.9	1.2	0.44	0.35	0.54	0.40	23
9	1.00	0.54	0.59	1.1	2.4	1.8	1.2	0.43	0.49	0.51	0.35	3.8
10	0.97	0.57	3.0	1.00	2.1	1.7	1.2	0.43	0.23	0.52	0.32	3.4
11	1.6	0.59	1.2	0.83	1.9	1.6	1.2	0.43	0.16	0.97	0.28	1.2
12	0.77	0.56	0.64	0.96	4.9	1.5	2.0	0.41	0.13	0.53	3.6	0.96
13	0.73	0.63	0.96	0.99	3.2	1.4	5.5	0.41	3.0	0.48	6.3	0.85
14	0.69	0.58	4.6	0.93	2.5	1.4	3.1	0.41	1.7	0.44	15	0.83
15	0.62	0.68	1.4	1.0	2.7	1.5	2.0	0.39	0.55	0.37	2.8	0.81
16	0.68	0.67	1.0	0.89	2.4	1.6	1.7	0.37	1.4	0.34	1.4	0.84
17	0.68	0.68	1.3	0.74	2.1	1.5	1.6	0.35	0.39	2.8	0.87	4.2
18	0.68	0.65	1.0	1.1	2.0	1.4	1.3	0.33	0.32	4.8	0.68	1.5
19	0.66	1.2	0.92	0.94	1.8	1.4	1.2	0.33	0.30	0.77	0.55	0.93
20	0.60	0.47	0.78	0.78	1.7	1.3	1.2	0.31	0.29	0.56	0.48	0.80
21	0.60	0.39	0.77	0.79	1.6	1.4	1.2	0.28	2.2	0.48	1.4	0.78
22	0.63	0.39	0.78	0.79	1.6	1.1	1.1	0.25	1.2	0.44	0.87	0.72
23	0.62	0.39	0.79	0.76	1.6	1.1	1.0	0.26	10	0.40	0.56	0.69
24	0.63	0.43	0.85	0.77	1.6	1.1	0.93	0.29	5.6	0.37	0.48	0.71
25	0.65	0.44	0.82	0.87	1.5	1.0	0.88	0.21	20	0.35	0.46	0.72
26	0.71	0.42	0.83	0.79	1.7	1.1	0.94	0.18	14	0.39	0.44	0.73
27	0.73	0.52	0.88	0.75	3.4	1.1	0.94	0.17	2.4	3.0	0.42	4.9
28	0.86	0.69	0.88	1.3	3.4	1.1	0.87	0.17	1.4	0.55	0.40	21
29	1.4	0.50	0.90	1.3	5.8	1.1	0.82	0.18	0.93	6.3	0.56	3.3
30	0.65	0.53	0.92	0.83	---	1.2	0.80	0.16	0.72	1.6	0.72	1.9
31	0.63	---	0.86	0.76	---	2.9	---	0.43	---	0.75	0.52	---
TOTAL	24.26	18.03	31.75	29.42	86.48	67.1	50.68	16.82	68.70	41.29	43.24	90.30
MEAN	0.78	0.60	1.02	0.95	2.98	2.16	1.69	0.54	2.29	1.33	1.39	3.01
MAX	1.6	1.2	4.6	1.3	14	9.4	6.1	4.1	20	6.3	15	23
MIN	0.60	0.39	0.54	0.74	0.77	1.0	0.80	0.16	0.11	0.34	0.28	0.41
CFSM	0.18	0.13	0.23	0.21	0.67	0.48	0.38	0.12	0.51	0.30	0.31	0.67
IN.	0.20	0.15	0.26	0.24	0.72	0.56	0.42	0.14	0.57	0.34	0.36	0.75

SUMMARY STATISTICS

FOR 2004 WATER YEAR

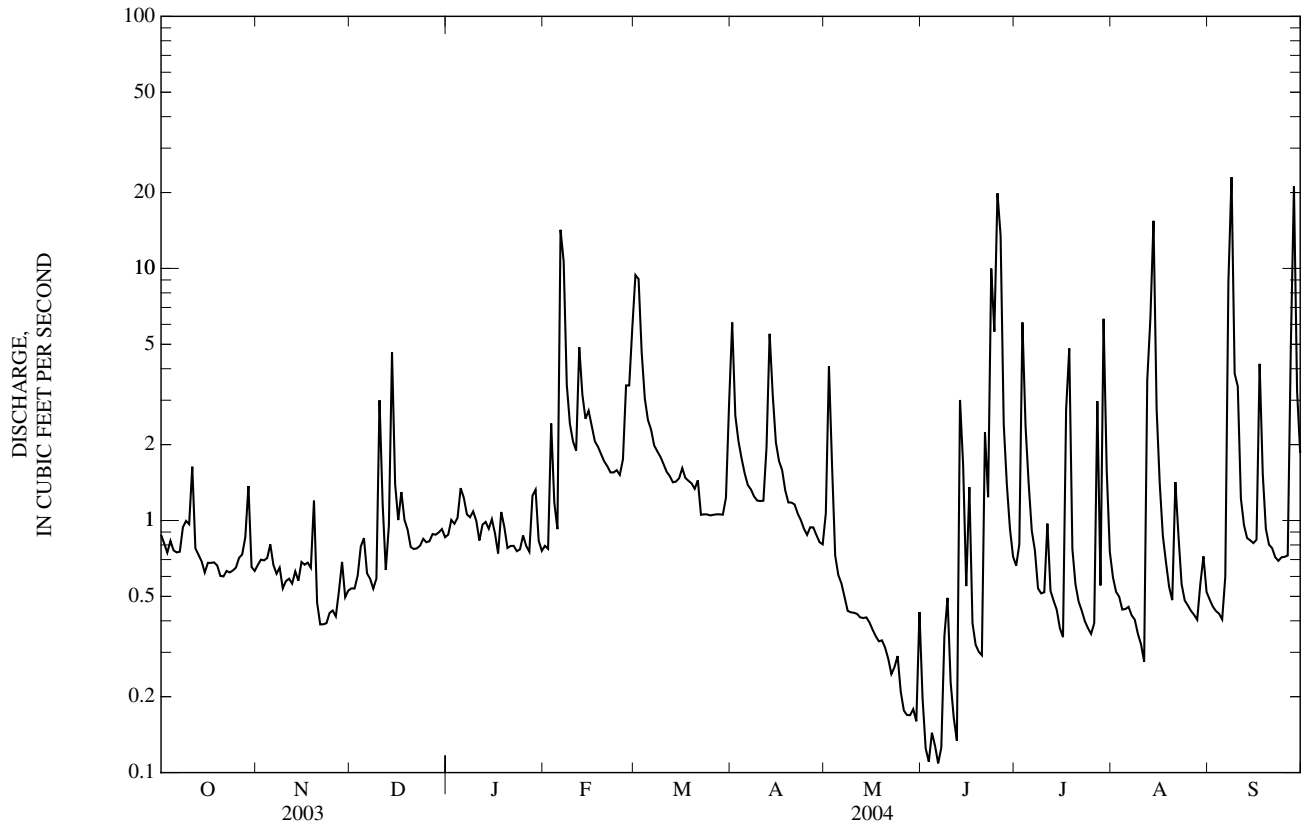
WATER YEARS 2003 - 2004

LOWEST DAILY MEAN	0.11	Jun 3	0.11	Jun 3, 2004
MAXIMUM PEAK FLOW	111	Jun 25	NOT DETERMINED*	
MAXIMUM PEAK STAGE	3.65	Jun 25	5.91	Jun 7, 2003
INSTANTANEOUS LOW FLOW	0.09*	Jun 2	0.09*	Jun 2, 2004

* See REMARKS.

e Estimated.

0214297160 BEAVERDAM CREEK ABOVE WINDY GAP ROAD NEAR SHOPTON, NC—Continued



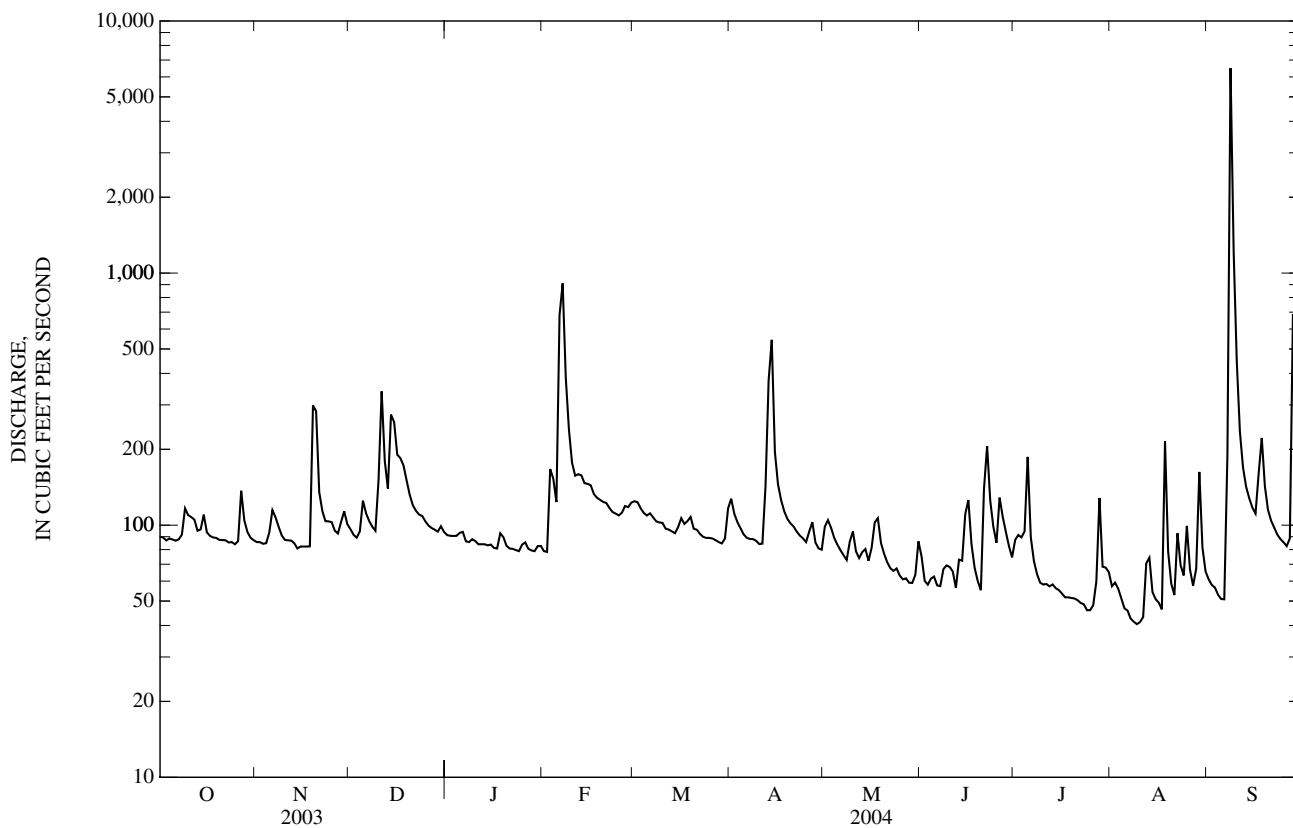
02143000 HENRY FORK NEAR HENRY RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1926 - 2004 [@]	
ANNUAL TOTAL	75,137		46,822		133	
ANNUAL MEAN	206		128		221	
HIGHEST ANNUAL MEAN					45.5	1993
LOWEST ANNUAL MEAN					202	2002
HIGHEST DAILY MEAN	1,920	Mar 20	6,500	Sep 8	10,100	Oct 2, 1929
LOWEST DAILY MEAN	75	Jan 28	40	Aug 9	4.0	Nov 15, 1942
ANNUAL SEVEN-DAY MINIMUM	82	Jan 22	43	Aug 5	5.8	Aug 8, 2002
MAXIMUM PEAK FLOW			11,600	Sep 8	15,300	Oct 2, 1929
MAXIMUM PEAK STAGE			18.04*	Sep 8	18.71	Oct 12, 1990
INSTANTANEOUS LOW FLOW			40*	Aug 8	3.0	Dec 20, 1942
ANNUAL RUNOFF (CFSM)	2.47		1.54		1.60	
ANNUAL RUNOFF (INCHES)	33.59		20.93		21.69	
10 PERCENT EXCEEDS	343		154		219	
50 PERCENT EXCEEDS	146		90		92	
90 PERCENT EXCEEDS	87		58		42	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.



02143040 JACOB FORK AT RAMSEY, NC

LOCATION.--Lat 35°35'26", long 81°34'01", Burke County, Hydrologic Unit 03050102, on left bank 16 ft downstream of bridge on Secondary Road 1924, 0.6 mi downstream of Queens Creek, and 0.6 mi north of Ramsey.

DRAINAGE AREA.--25.7 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-61. October 1961 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 1,103.00 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 3,400 ft³/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Aug. 11.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1940 reached a stage of about 39 ft, from information by local resident. Flood of July 1916 reached a stage of about 19 ft, from information by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	25	28	26	21	39	36	40	22	96	18	18
2	28	25	27	26	22	41	32	40	18	157	17	17
3	27	25	26	25	47	37	29	36	17	77	16	16
4	27	25	29	25	47	34	27	31	18	90	15	15
5	27	29	33	28	36	33	26	29	18	74	14	14
6	26	45	32	27	381	34	25	27	17	42	13	15
7	26	36	31	25	293	31	24	26	17	32	13	308
8	28	32	29	25	111	30	24	24	18	28	12	2,450
9	38	28	28	25	71	29	24	36	19	24	12	365
10	33	27	90	24	57	29	22	28	17	22	12	133
11	36	26	143	23	49	28	23	24	16	22	12	75
12	32	26	63	23	52	28	56	25	16	21	22	52
13	29	25	48	23	48	26	215	28	25	20	20	41
14	29	25	80	23	47	26	156	25	22	18	16	36
15	32	25	71	23	50	28	76	23	41	17	15	34
16	28	24	75	23	45	29	53	41	71	16	14	32
17	28	24	82	22	40	27	44	37	29	16	13	63
18	27	24	72	28	38	30	39	33	24	19	55	93
19	27	212	54	25	37	29	36	28	22	17	20	45
20	26	82	43	23	37	26	35	25	19	16	16	32
21	26	45	37	22	37	26	33	23	147	15	33	29
22	25	36	35	22	34	25	31	22	120	15	39	26
23	25	32	34	22	32	24	30	21	74	14	24	24
24	25	33	33	22	31	24	29	21	61	14	21	23
25	25	31	31	24	31	24	28	20	47	13	23	22
26	26	28	29	23	32	24	34	19	71	14	18	21
27	45	28	28	22	33	24	33	19	53	17	16	33
28	31	33	28	21	32	24	28	18	41	60	23	472
29	28	33	27	21	36	23	26	18	33	21	e37	136
30	27	30	29	22	---	25	26	21	36	21	e28	70
31	26	---	27	22	---	38	---	29	---	19	18	---
TOTAL	891	1,119	1,422	735	1,827	895	1,300	837	1,149	1,047	625	4,710
MEAN	28.7	37.3	45.9	23.7	63.0	28.9	43.3	27.0	38.3	33.8	20.2	157
MAX	45	212	143	28	381	41	215	41	147	157	55	2,450
MIN	25	24	26	21	21	23	22	18	16	13	12	14
CFSM	1.12	1.45	1.78	0.92	2.45	1.12	1.69	1.05	1.49	1.31	0.78	6.11
IN.	1.29	1.62	2.06	1.06	2.64	1.30	1.88	1.21	1.66	1.52	0.90	6.82

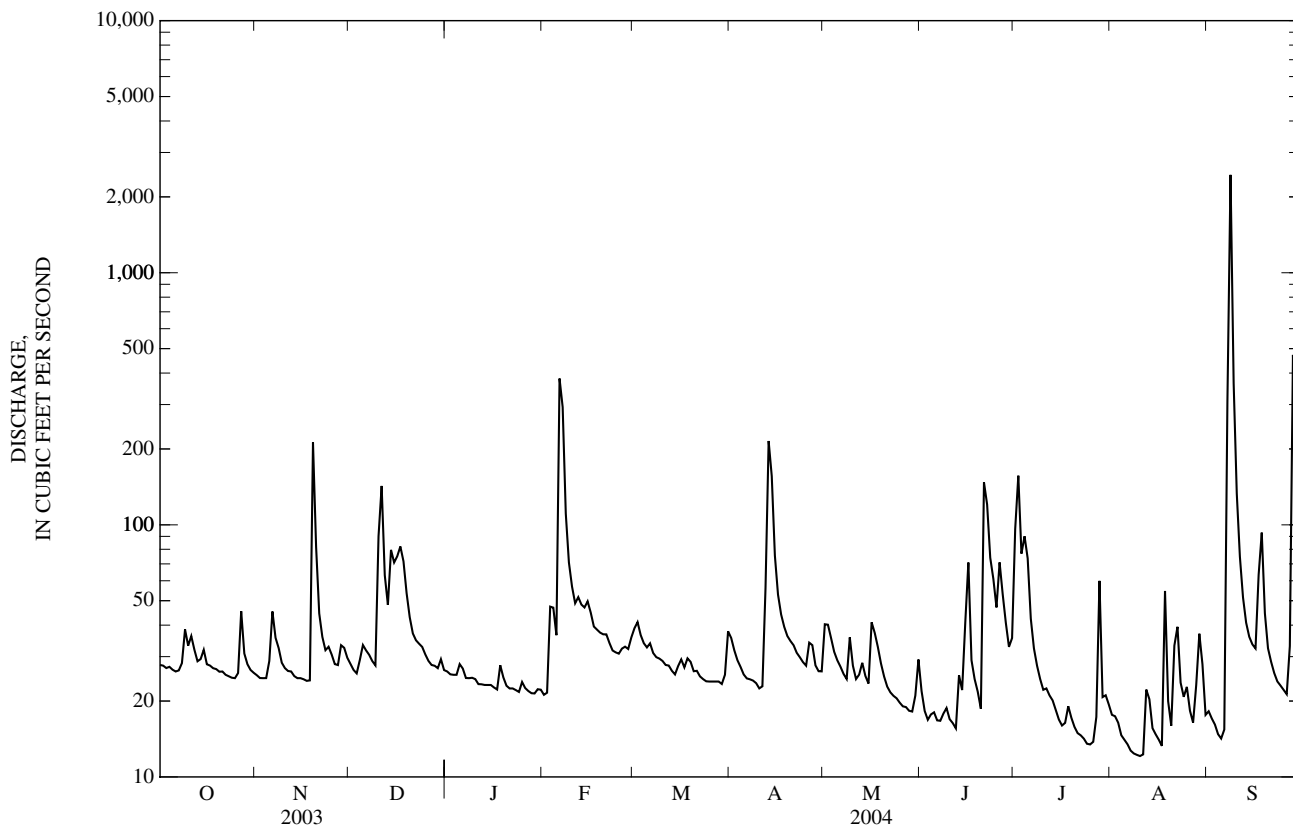
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

	(1965)	(1978)	(1984)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
MEAN	39.3	40.7	46.8	57.0	65.3	75.7	68.3	52.2	42.6	34.3	33.6	31.1
MAX	154	130	92.6	131	134	177	171	124	148	98.6	152	157
(WY)	(1965)	(1978)	(1984)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
MIN	7.83	8.49	14.5	15.6	19.3	27.4	19.4	9.93	4.98	2.87	4.48	7.94
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(1988)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)

02143040 JACOB FORK AT RAMSEY, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	31,175		16,557		48.8	
ANNUAL MEAN	85.4		45.2		90.9	
HIGHEST ANNUAL MEAN					16.6	2003
LOWEST ANNUAL MEAN					16.6	2002
HIGHEST DAILY MEAN	804	Apr 18	2,450	Sep 8	2,450	Sep 8, 2004
LOWEST DAILY MEAN	23	Jan 28	12	Aug 8	0.87	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	25	Jan 22	13	Aug 5	0.90	Aug 7, 2002
MAXIMUM PEAK FLOW			6,550	Sep 8	7,220*	Oct 17, 1975
MAXIMUM PEAK STAGE			18.93	Sep 8	19.74	Oct 17, 1975
INSTANTANEOUS LOW FLOW			11*	Aug 10	0.79	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	3.32		1.76		1.90	
ANNUAL RUNOFF (INCHES)	45.12		23.97		25.80	
10 PERCENT EXCEEDS	169		63		85	
50 PERCENT EXCEEDS	55		28		32	
90 PERCENT EXCEEDS	27		17		13	

* See REMARKS.
e Estimated.



02143040 JACOB FORK AT RAMSEY, NC—Continued

PRECIPITATION RECORDS

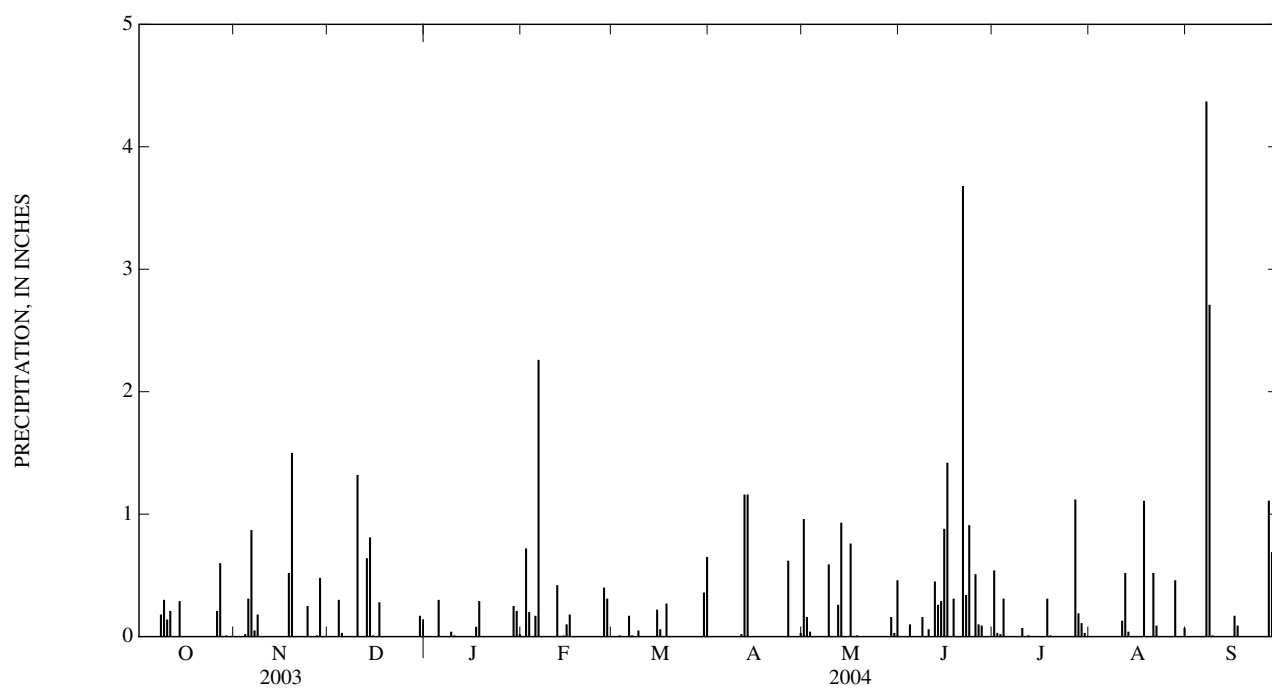
PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

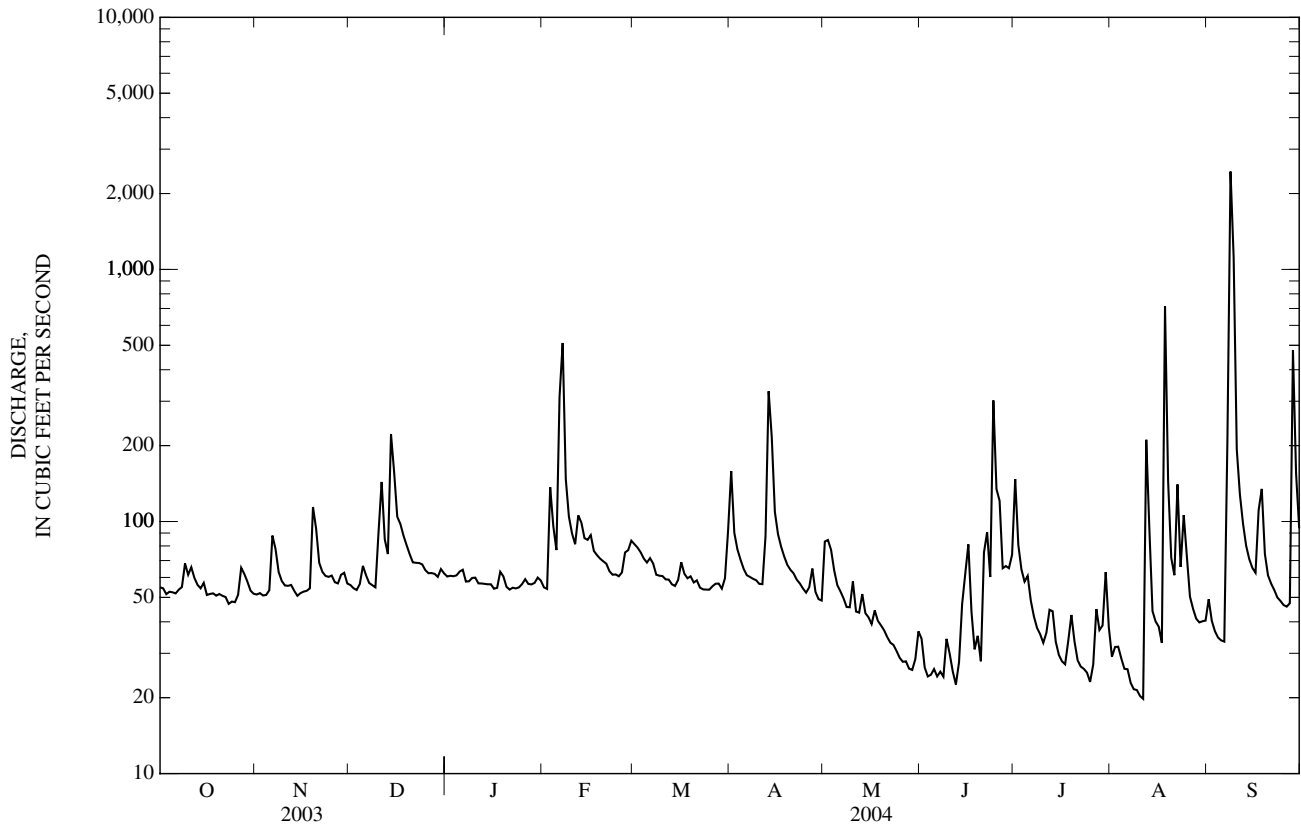
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.54	0.00	0.00
2	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.16	0.00	0.03	0.00	0.00
3	0.00	0.00	0.00	0.00	0.20	0.01	0.00	0.04	0.00	0.02	0.00	0.00
4	0.00	0.02	0.30	0.00	0.00	0.00	0.00	0.00	0.10	0.31	0.00	0.00
5	0.00	0.31	0.03	0.30	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.87	0.00	0.00	2.26	0.17	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	4.37
8	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	2.71
9	0.30	0.00	0.00	0.04	0.00	0.05	0.00	0.59	0.00	0.00	0.00	0.01
10	0.14	0.00	1.32	0.01	0.00	0.00	0.00	0.00	0.06	0.07	0.00	0.00
11	0.21	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.13	0.00
12	0.00	0.00	0.00	0.00	0.42	0.00	1.16	0.26	0.45	0.01	0.52	0.00
13	0.00	0.00	0.64	0.00	0.00	0.00	1.16	0.93	0.26	0.00	0.04	0.00
14	0.29	0.00	0.81	0.00	0.01	0.00	0.00	0.00	0.29	0.00	0.00	0.00
15	0.00	0.00	0.01	0.00	0.10	0.22	0.00	0.00	0.88	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.18	0.06	0.00	0.76	1.42	0.00	0.00	0.17
17	0.00	0.00	0.28	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
18	0.00	0.52	0.00	0.29	0.00	0.27	0.00	0.01	0.31	0.31	1.11	0.00
19	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.68	0.00	0.52	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.09	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00
24	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00
26	0.21	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.10	0.00	0.00	0.00
27	0.60	0.01	0.00	0.00	0.40	0.00	0.00	0.00	0.09	1.12	0.00	1.11
28	0.00	0.48	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.19	0.46	0.69
29	0.01	0.00	0.00	0.25	0.00	0.00	0.00	0.16	0.00	0.11	---	0.00
30	0.00	0.00	0.17	0.21	---	0.36	0.03	0.03	0.00	0.03	---	0.00
31	0.00	---	0.00	0.02	---	0.65	---	0.46	---	0.00	0.07	---
TOTAL	1.94	4.19	3.56	1.20	4.77	1.80	2.99	4.36	9.56	2.75	---	9.15



02143500 INDIAN CREEK NEAR LABORATORY, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	61,585		28,220			
ANNUAL MEAN	169		77.1		87.6	
HIGHEST ANNUAL MEAN					171	2003
LOWEST ANNUAL MEAN					21.8	2002
HIGHEST DAILY MEAN	3,590	Mar 20	2,450	Sep 8	4,350	Aug 10, 1970
LOWEST DAILY MEAN	41	Jan 27	20	Aug 10	0.32	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	43	Jan 16	23	Aug 5	0.45	Aug 9, 2002
MAXIMUM PEAK FLOW			3,540	Sep 8	8,450	Aug 10, 1970
MAXIMUM PEAK STAGE			6.87	Sep 8	10.61	Aug 10, 1970
INSTANTANEOUS LOW FLOW			17*	Aug 10	0.25*	Aug 12, 2002
ANNUAL RUNOFF (CFSM)	2.44		1.11		1.27	
ANNUAL RUNOFF (INCHES)	33.11		15.17		17.20	
10 PERCENT EXCEEDS	229		97		147	
50 PERCENT EXCEEDS	85		57		55	
90 PERCENT EXCEEDS	51		31		22	

* See REMARKS.



02144000 LONG CREEK NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'23", long 81°14'05", Gaston County, Hydrologic Unit 03050102, on right bank 700 ft upstream from bridge on Secondary Road 1456, 3.3 mi northeast of Bessemer City, and 8.2 mi upstream from mouth.

DRAINAGE AREA.--31.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1723.

REVISED RECORDS.--WSP 1723: 1959-60 (M). WSP 1904: 1959-60. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 706.1 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Bessemer City diverts water upstream from gaging station for water supply and returns treated effluent to South Fork Catawba River downstream of mouth of Long Creek causing some diurnal fluctuation; a daily average of 2.28 ft³/s was diverted during the year. Peak stage for current water year from crest-stage gage. Minimum discharge for current water year also occurred Aug. 8.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 26 ft, from high-water mark on left bank 1,500 ft upstream, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	18	21	20	36	38	28	7.8	22	8.5	7.5
2	21	18	17	21	19	32	26	26	5.1	24	8.7	5.3
3	20	19	17	21	68	29	25	22	5.5	28	9.6	4.9
4	20	19	19	21	35	26	23	19	5.7	21	7.1	6.4
5	20	19	23	26	29	25	22	17	5.7	19	6.8	6.5
6	20	19	21	27	132	25	19	13	4.4	16	5.2	8.2
7	20	19	20	21	100	25	21	13	4.6	15	4.5	156
8	20	19	19	20	42	23	21	15	12	13	4.6	1,140
9	24	18	19	21	34	22	20	15	6.9	12	4.6	121
10	21	18	37	21	31	23	18	14	6.8	11	5.2	44
11	30	19	37	20	29	21	20	13	3.6	14	3.6	32
12	25	19	25	21	46	22	27	15	4.5	18	40	26
13	22	18	25	20	39	22	105	14	9.5	18	22	23
14	21	17	72	19	34	22	50	13	77	11	12	22
15	20	16	38	18	34	22	33	12	68	10	18	20
16	18	17	29	19	35	24	27	6.7	32	10	13	19
17	18	18	30	19	31	21	25	6.8	18	12	8.5	33
18	18	18	27	23	e30	20	22	8.0	12	37	34	28
19	18	48	25	20	e26	23	22	11	10	14	12	20
20	18	30	23	16	25	19	22	11	9.2	10	8.4	16
21	18	23	22	18	26	22	21	7.7	18	9.2	7.8	14
22	17	22	23	18	24	20	21	9.1	16	8.8	11	14
23	16	21	24	16	23	18	19	8.7	190	9.9	9.6	13
24	17	21	24	18	22	20	15	8.8	113	9.3	18	12
25	17	20	23	20	24	20	17	7.5	127	9.0	15	11
26	18	20	22	21	26	19	18	4.3	181	9.4	8.1	11
27	25	18	22	20	32	18	20	3.9	49	24	6.6	16
28	21	19	22	18	35	20	15	3.6	40	8.3	5.6	162
29	22	18	22	21	38	18	17	4.8	31	7.9	5.4	43
30	19	17	22	22	---	22	17	6.3	25	13	7.3	30
31	18	---	21	19	---	36	---	12	---	9.7	8.5	---
TOTAL	623	605	788	626	1,089	715	766	369.2	1,098.3	453.5	339.2	2,064.8
MEAN	20.1	20.2	25.4	20.2	37.6	23.1	25.5	11.9	36.6	14.6	10.9	68.8
MAX	30	48	72	27	132	36	105	28	190	37	40	1,140
MIN	16	16	17	16	19	18	15	3.6	3.6	7.9	3.6	4.9
CFSM	0.63	0.63	0.80	0.64	1.18	0.73	0.80	0.37	1.15	0.46	0.34	2.16
IN.	0.73	0.71	0.92	0.73	1.27	0.84	0.90	0.43	1.28	0.53	0.40	2.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

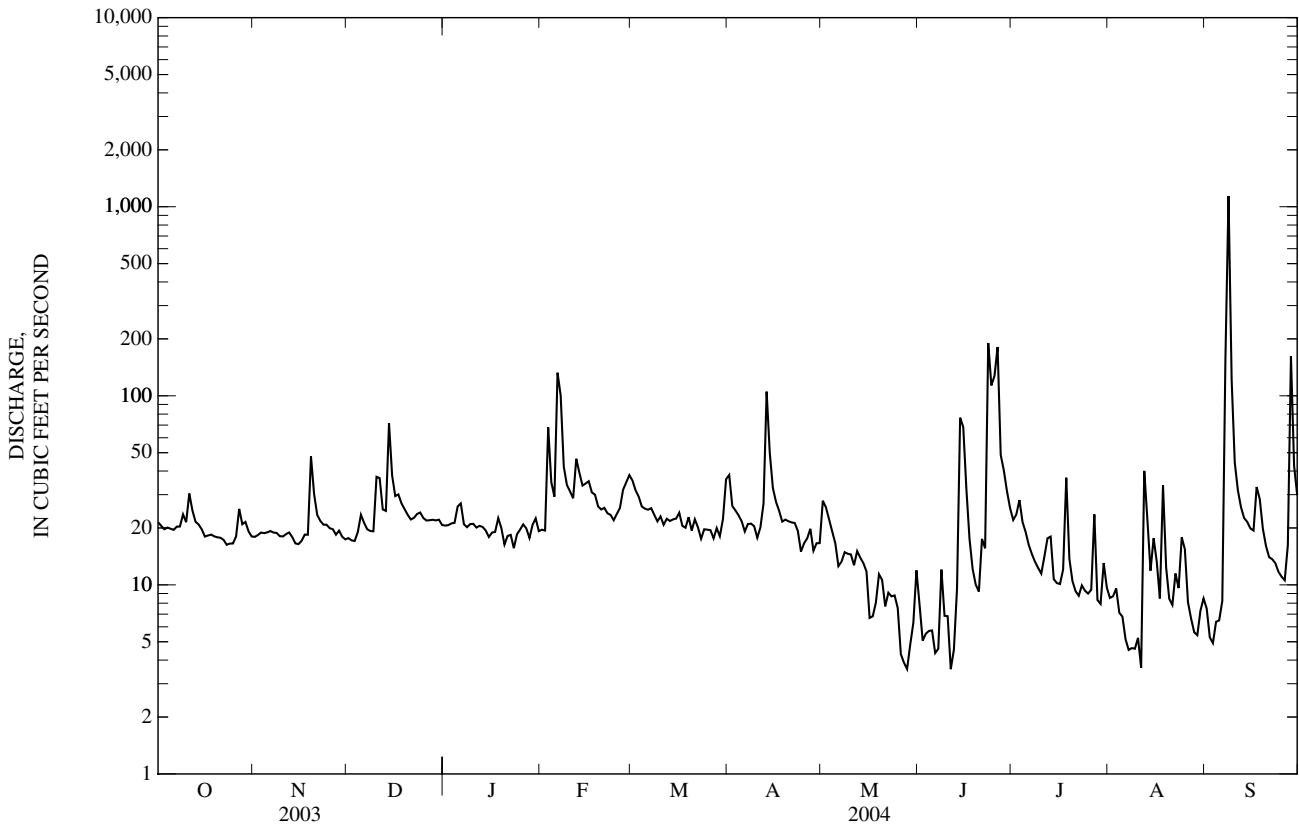
MEAN	24.3	25.2	32.8	47.7	56.7	60.7	47.9	32.8	25.7	18.7	20.1	16.3
MAX	147	128	85.2	135	137	146	142	134	79.5	84.8	81.7	68.8
(WY)	(1972)	(1958)	(1977)	(1993)	(1960)	(1993)	(1958)	(2003)	(2003)	(2003)	(1985)	(2004)
MIN	1.77	2.67	4.69	8.17	12.0	20.5	12.1	6.26	1.76	0.59	0.30	1.02
(WY)	(2002)	(2002)	(2002)	(1956)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

02144000 LONG CREEK NEAR BESSEMER CITY, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	23,207		9,537.0		34.0	
ANNUAL MEAN	63.6		26.1		64.0	
HIGHEST ANNUAL MEAN					6.67	2002
LOWEST ANNUAL MEAN					2,940	Oct 16, 1971
HIGHEST DAILY MEAN	1,600	May 22	1,140	Sep 8	0.05	Aug 14, 2002
LOWEST DAILY MEAN	10	Jan 23	3.6	May 28	0.10	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	10	Jan 21	4.9	Aug 5	6,500	Oct 16, 1971
MAXIMUM PEAK FLOW			1,640	Sep 8	9.10	Oct 16, 1971
MAXIMUM PEAK STAGE			6.72*	Sep 8	0.03	Aug 14, 2002
INSTANTANEOUS LOW FLOW			3.0*	Jun 12	1.07	
ANNUAL RUNOFF (CFSM)	2.00		0.819		14.54	
ANNUAL RUNOFF (INCHES)	27.15		11.16		55	
10 PERCENT EXCEEDS	100		34		20	
50 PERCENT EXCEEDS	33		20		6.0	
90 PERCENT EXCEEDS	17		7.8			

* See REMARKS.

e Estimated.



02144000 LONG CREEK NEAR BESSEMER CITY, NC—Continued

PRECIPITATION RECORDS

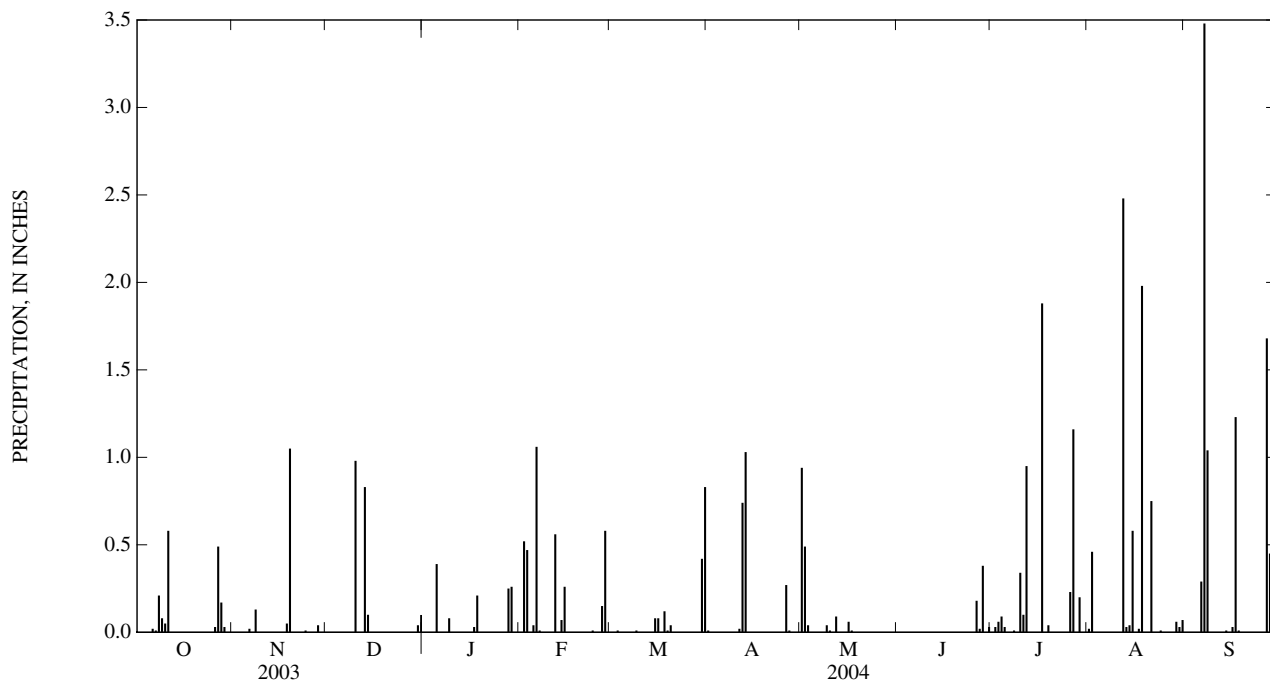
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

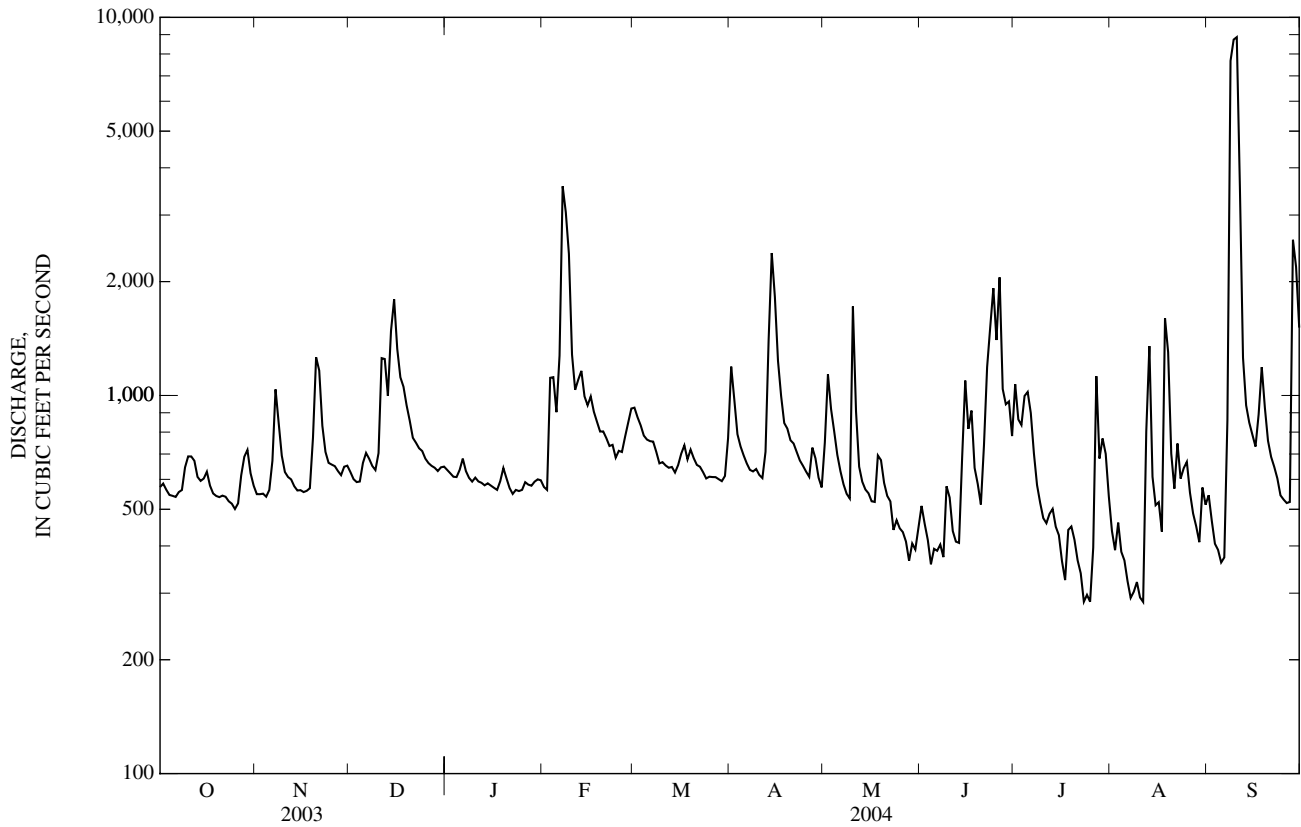
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.94	---	0.00	0.02	0.00
2	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.49	---	0.03	0.46	0.00
3	0.00	0.00	---	0.00	0.47	0.01	0.00	0.04	---	0.06	0.00	0.00
4	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	---	0.09	0.00	0.00
5	0.00	0.00	---	0.39	0.04	0.00	0.00	0.00	---	0.03	0.00	0.00
6	0.02	0.02	---	0.00	1.06	0.00	0.00	0.00	---	0.00	0.00	0.29
7	0.01	0.00	---	0.00	0.01	0.00	0.00	0.00	---	0.00	0.00	3.48
8	0.21	0.13	---	0.00	0.00	0.00	0.00	0.00	---	0.01	0.00	1.04
9	0.08	0.00	0.00	0.08	0.00	0.01	0.00	0.04	---	0.00	0.00	0.00
10	0.05	0.00	0.98	0.00	0.00	0.00	0.00	0.01	---	0.34	0.00	0.00
11	0.58	0.00	0.00	0.00	0.00	0.00	0.02	0.00	---	0.10	0.00	0.00
12	0.00	0.00	0.00	0.00	0.56	0.00	0.74	0.09	---	0.95	2.48	0.00
13	0.00	0.00	0.83	0.00	0.00	0.00	1.03	0.00	---	0.00	0.03	0.00
14	0.00	0.00	0.10	0.00	0.07	0.00	0.00	0.00	---	0.00	0.04	0.01
15	0.00	0.00	0.00	0.00	0.26	0.08	0.00	0.00	---	0.00	0.58	0.00
16	0.00	0.00	---	0.00	0.00	0.08	0.00	0.06	---	0.00	0.00	0.03
17	0.00	0.00	---	0.03	0.00	0.00	0.00	0.01	---	1.88	0.02	1.23
18	0.00	0.05	---	0.21	0.00	0.12	0.00	0.00	---	0.00	1.98	0.01
19	0.00	1.05	0.00	0.00	0.00	0.01	0.00	0.00	---	0.04	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	---	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.75	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00	0.00
24	0.00	0.01	0.00	0.00	0.01	0.00	0.00	---	---	0.00	0.01	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	0.00	0.00	0.27	---	0.18	0.23	0.00	0.00
27	0.49	0.00	0.00	0.00	0.15	0.00	0.01	---	0.02	1.16	0.00	1.68
28	0.17	0.04	0.00	0.25	0.58	0.00	0.00	---	0.38	0.00	0.00	0.45
29	0.03	0.00	0.00	0.26	0.00	0.00	0.00	---	0.00	0.20	0.06	0.00
30	0.00	0.00	0.04	0.00	---	0.42	0.00	---	0.03	0.00	0.03	0.00
31	0.00	---	0.00	0.00	---	0.83	---	---	---	0.00	0.07	---
TOTAL	1.67	1.30	---	1.22	3.73	1.60	2.08	---	---	5.12	6.53	8.22



02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	547,501		292,416		798	
ANNUAL MEAN	1,500		799		1,518	
HIGHEST ANNUAL MEAN					272	2003
LOWEST ANNUAL MEAN					272	2002
HIGHEST DAILY MEAN	17,800	Mar 21	8,860	Sep 10	21,700	Aug 11, 1970
LOWEST DAILY MEAN	430	Jan 28	284	Aug 11	25	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	447	Jan 22	312	Aug 5	54	Aug 9, 2002
MAXIMUM PEAK FLOW			10,200	Sep 9	24,800	Aug 11, 1970
MAXIMUM PEAK STAGE			11.46	Sep 9	17.38	Aug 11, 1970
INSTANTANEOUS LOW FLOW			134*	Aug 11	13*	Aug 22, 1988
ANNUAL RUNOFF (CFSM)	2.39		1.27		1.27	
ANNUAL RUNOFF (INCHES)	32.43		17.32		17.26	
10 PERCENT EXCEEDS	2,610		1,150		1,380	
50 PERCENT EXCEEDS	984		636		562	
90 PERCENT EXCEEDS	553		433		263	

* See REMARKS.



0214620760 CRN03

LOCATION.--Lat 35°16'33", long 80°49'34", Mecklenburg County, Hydrologic Unit 03050103, Irwin Creek at Starita Road at Charlotte, NC.

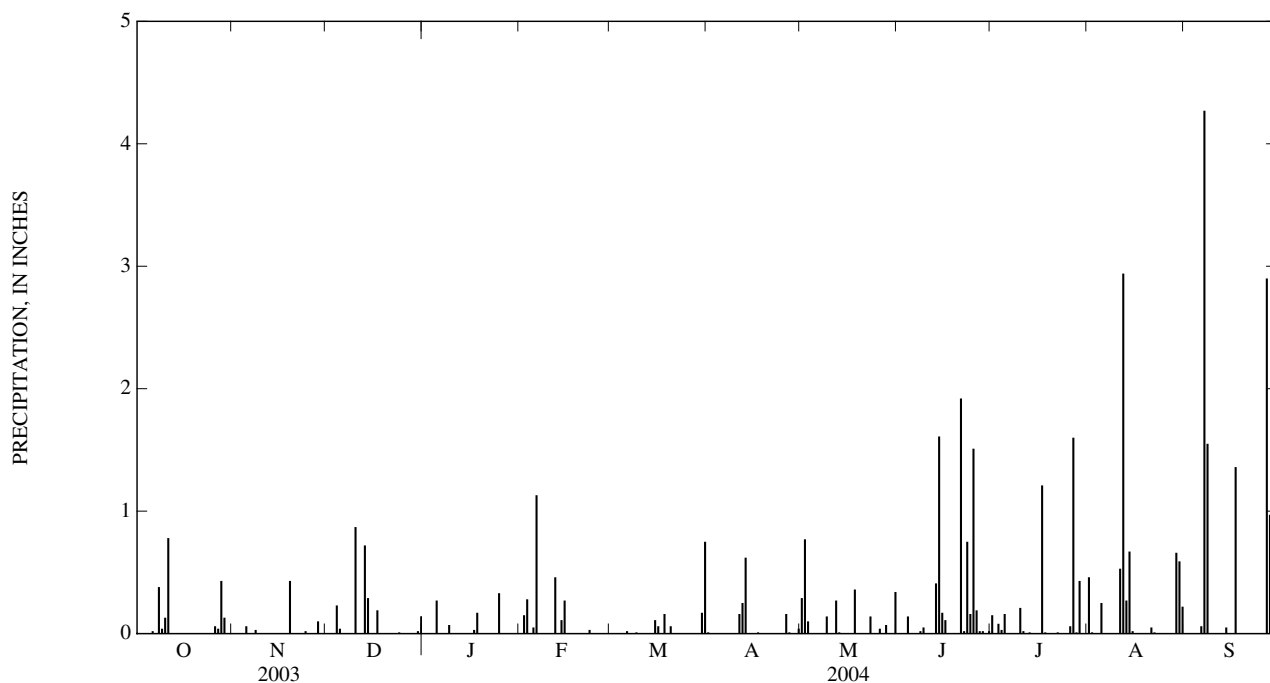
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.29	0.00	0.15	0.46	0.00
2	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.77	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00	0.08	0.00	0.00
4	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.14	0.03	0.00	0.00
5	0.00	0.06	0.04	0.27	0.05	0.00	0.00	0.00	0.00	0.16	0.25	0.00
6	0.02	0.00	0.00	0.00	1.13	0.02	0.00	0.00	0.00	0.00	0.00	0.06
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.27
8	0.38	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.55
9	0.04	0.00	0.00	0.07	0.00	0.01	0.00	0.14	0.05	0.00	0.00	0.00
10	0.13	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00
11	0.78	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.02	0.53	0.00
12	0.00	0.00	0.00	0.00	0.46	0.00	0.25	0.27	0.00	0.00	2.94	0.00
13	0.00	0.00	0.72	0.00	0.00	0.00	0.62	0.01	0.41	0.01	0.27	0.00
14	0.00	0.00	0.29	0.00	0.11	0.00	0.00	0.00	1.61	0.00	0.67	0.05
15	0.00	0.00	0.00	0.00	0.27	0.11	0.00	0.00	0.17	0.00	0.02	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.11	0.00	0.00	0.00
17	0.00	0.00	0.19	0.03	0.00	0.00	0.01	0.00	0.00	1.21	0.00	1.36
18	0.00	0.00	0.00	0.17	0.00	0.16	0.00	0.36	0.00	0.01	0.00	0.00
19	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	0.00	0.05	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.00
23	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.14	0.75	0.00	0.00	0.00
24	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
25	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	1.51	0.00	0.00	0.00
26	0.06	0.00	0.00	0.00	---	0.00	0.16	0.04	0.19	0.06	0.00	0.00
27	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.60	0.00	2.90
28	0.43	0.10	0.00	0.00	0.00	0.00	0.00	0.07	0.02	0.01	0.00	0.97
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.66	0.00
30	0.00	0.00	0.02	0.00	---	0.17	0.04	0.00	0.02	0.00	0.59	0.00
31	0.00	---	0.00	0.00	---	0.75	---	0.34	---	0.00	0.22	---
TOTAL	2.01	0.64	2.37	0.87	---	1.34	1.26	2.53	7.12	3.99	6.68	11.16



0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°14'25", long 80°52'06", Mecklenburg County, Hydrologic Unit 03050103, on right upstream side of culvert on State Street, 1.1 mi upstream of Irwin Creek, and 2.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.--9.27 mi².

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 630.54 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair except those for discharges above 500 ft³/s, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 500 ft³/s on basis of culvert computation of peak flow. Minimum discharge for period of record and current water year affected by regulation of unknown origin.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

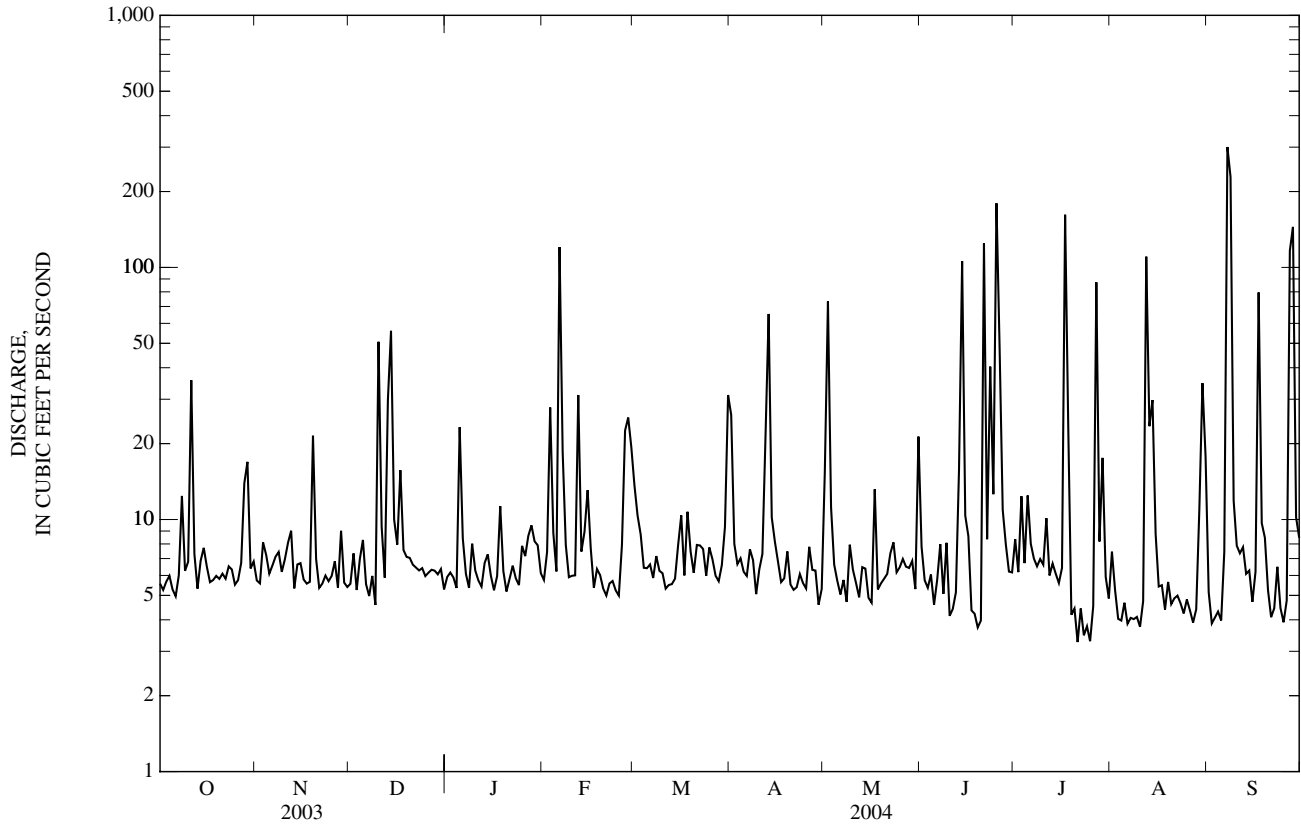
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.7	5.6	5.9	5.8	14	26	16	7.8	8.4	7.5	5.1
2	5.3	5.6	7.3	6.2	7.4	10	8.0	73	5.7	6.2	5.3	3.9
3	5.7	8.1	5.3	5.9	28	8.7	6.7	11	5.4	12	4.0	4.1
4	6.0	7.2	7.0	5.4	8.9	6.4	7.0	6.6	6.0	6.7	4.0	4.3
5	5.3	6.1	8.3	23	6.2	6.4	6.2	5.7	4.6	12	4.7	4.0
6	5.0	6.6	5.5	8.4	120	6.6	6.0	5.0	5.8	8.0	3.9	7.4
7	6.0	7.1	5.0	6.1	19	5.9	7.6	5.8	8.0	7.0	4.1	300
8	12	7.4	6.0	5.4	7.9	7.2	6.9	4.7	5.1	6.5	4.0	229
9	6.3	6.2	4.6	8.0	5.9	6.3	5.1	7.9	8.1	7.0	4.1	12
10	6.8	7.0	51	6.3	6.0	6.1	6.3	6.3	4.1	6.6	3.8	7.9
11	36	8.1	9.4	5.7	6.0	5.3	7.3	5.6	4.4	10	4.7	7.3
12	7.3	9.0	5.9	5.4	31	5.5	21	4.9	5.1	6.0	110	7.8
13	5.3	5.3	30	6.7	7.5	5.5	65	6.5	16	6.7	23	6.1
14	6.9	6.6	56	7.3	8.9	5.8	10	6.4	106	6.1	30	6.3
15	7.7	6.7	10	6.0	13	7.9	8.2	4.9	10	5.6	8.8	4.7
16	6.5	5.8	8.0	5.2	7.7	10	6.8	4.7	8.6	6.4	5.4	6.2
17	5.6	5.6	16	6.0	5.4	6.0	5.6	13	4.4	162	5.5	80
18	5.8	5.7	7.6	11	6.4	11	5.8	5.3	4.2	23	4.4	9.7
19	6.0	21	7.1	6.2	6.0	7.5	7.5	5.6	3.7	4.2	5.7	8.5
20	5.8	7.0	7.0	5.2	5.3	6.1	5.5	5.8	4.0	4.4	4.6	5.2
21	6.1	5.4	6.6	5.8	5.0	7.9	5.3	6.1	125	3.3	4.9	4.1
22	5.8	5.6	6.4	6.6	5.6	7.9	5.4	7.3	8.4	4.4	5.0	4.4
23	6.5	6.0	6.3	5.8	5.7	7.6	6.1	8.1	40	3.5	4.6	6.5
24	6.3	5.7	6.4	5.5	5.2	6.0	5.6	6.2	13	3.8	4.2	4.5
25	5.5	6.0	6.0	7.9	5.0	7.7	5.3	6.5	180	3.3	4.8	3.9
26	5.8	6.8	6.2	7.2	7.9	7.0	7.8	7.0	48	4.5	4.4	4.8
27	6.7	5.4	6.3	8.6	23	6.0	6.3	6.5	11	87	3.9	116
28	14	9.0	6.3	9.5	25	5.7	6.3	6.4	8.0	8.2	4.4	145
29	17	5.6	6.1	8.2	19	6.6	4.6	6.9	6.2	18	11	10
30	6.4	5.4	6.4	7.9	---	9.3	5.3	5.3	6.2	5.9	35	8.5
31	6.8	---	5.3	6.1	---	31	---	21	---	4.9	18	---
TOTAL	243.8	208.7	330.9	224.4	413.7	250.9	286.5	292.0	672.8	461.6	347.7	1,027.2
MEAN	7.86	6.96	10.7	7.24	14.3	8.09	9.55	9.42	22.4	14.9	11.2	34.2
MAX	36	21	56	23	120	31	65	73	180	162	110	300
MIN	5.0	5.3	4.6	5.2	5.0	5.3	4.6	4.7	3.7	3.3	3.8	3.9
CFSM	0.85	0.75	1.15	0.78	1.54	0.87	1.03	1.02	2.42	1.61	1.21	3.69
IN.	0.98	0.84	1.33	0.90	1.66	1.01	1.15	1.17	2.70	1.85	1.40	4.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	12.9	10.7	14.0	11.8	14.1	24.3	19.1	21.9	19.4	15.7	16.1	17.2
MAX	28.0	16.6	25.6	16.8	19.3	49.7	49.0	58.9	49.8	27.3	42.3	34.2
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	7.24	6.96	9.46	7.24	9.54	8.09	7.07	9.42	7.75	8.41	6.37	8.88
(WY)	(2001)	(2004)	(2001)	(2004)	(2002)	(2004)	(2002)	(2004)	(2000)	(2001)	(2001)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	10,511.0		4,760.2		16.9	
ANNUAL MEAN	28.8		13.0		10.6	
HIGHEST ANNUAL MEAN					32.6	2003
LOWEST ANNUAL MEAN					10.6	2002
HIGHEST DAILY MEAN	923	May 22	300	Sep 7	923	May 22, 2003
LOWEST DAILY MEAN	4.6	Dec 9	3.3	Jul 21	3.3	Jul 21, 2004
ANNUAL SEVEN-DAY MINIMUM	5.6	Oct 1	3.8	Jul 19	3.8	Jul 19, 2004
MAXIMUM PEAK FLOW			2,620*	Jul 17	3,100*	Jun 7, 2003
MAXIMUM PEAK STAGE			8.37	Jul 17	9.47	Jun 7, 2003
INSTANTANEOUS LOW FLOW			2.2*	Jul 23	1.6*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	3.11		1.40		1.82	
ANNUAL RUNOFF (INCHES)	42.18		19.10		24.72	
10 PERCENT EXCEEDS	51		18		23	
50 PERCENT EXCEEDS	10		6.3		8.0	
90 PERCENT EXCEEDS	6.0		4.6		5.4	

* See REMARKS.



02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°13'42", long 80°52'09", Mecklenburg County, Hydrologic Unit 03050103, on right bank at bridge on West Morehead Street (US 29), 0.5 mi upstream of Irwin Creek, and 1.8 mi northeast of city hall, Charlotte.

DRAINAGE AREA.--11.1 mi².

REVISED RECORDS.--WDR NC-03-1B: 2001. WDR NC-03-1B: 2002.

PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 617.43 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing values on the daily values table are days when flow exceeded rating. Minimum discharge for period of record and current water year affected by regulation of unknown origin. Minimum discharge for period of record also occurred Aug. 5, 6, 2002. Minimum discharge for current water year also occurred July 13-15, Aug. 4, 7, 10, 27-29.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	6.9	7.1	6.6	6.3	18	30	25	10	8.8	9.9	6.8
2	6.3	6.6	9.0	6.9	8.6	14	8.9	---	7.5	6.6	7.5	5.4
3	6.6	9.2	7.6	6.9	33	11	7.4	14	6.8	13	5.9	5.4
4	7.2	8.9	9.7	6.2	9.4	8.8	7.8	8.0	8.1	7.5	5.9	5.9
5	6.5	7.7	10	25	6.9	8.9	7.1	7.0	6.0	13	6.6	5.4
6	6.1	8.5	7.1	9.0	---	9.1	6.9	6.2	7.4	8.5	5.6	13
7	7.1	9.2	6.5	6.7	24	8.3	8.3	6.8	9.8	6.9	5.5	---
8	16	10	7.6	5.8	11	9.5	8.1	5.9	6.6	6.5	5.6	---
9	8.2	8.0	6.1	8.8	8.2	8.8	5.8	9.6	10	7.0	5.7	14
10	7.8	8.8	61	6.8	8.2	8.7	7.7	8.4	5.7	8.4	5.3	9.8
11	42	9.9	12	6.4	8.1	7.7	9.1	7.1	5.9	11	6.5	8.9
12	8.5	11	7.7	6.0	40	8.0	27	6.9	6.7	5.9	---	9.6
13	6.3	7.5	---	7.1	10	8.0	---	7.6	26	6.2	37	8.1
14	7.7	9.3	66	7.6	12	8.5	12	7.9	---	5.7	40	8.6
15	8.4	9.6	11	6.6	18	11	9.2	6.4	15	5.2	12	6.4
16	7.3	8.7	8.7	5.8	10	14	7.9	5.9	16	5.9	7.4	8.0
17	6.4	8.5	18	6.5	7.5	7.7	7.5	17	6.9	---	7.4	---
18	6.5	8.4	8.4	13	8.7	13	11	7.7	6.6	---	6.2	12
19	6.8	27	7.8	7.0	8.3	8.5	8.6	6.7	6.3	7.2	7.6	9.8
20	6.7	8.5	7.7	5.7	7.8	6.6	6.9	6.7	6.6	7.5	6.4	7.0
21	6.8	6.9	7.3	6.4	7.6	8.8	6.4	6.2	---	5.7	7.0	5.5
22	7.0	7.0	7.2	7.1	8.3	7.8	6.9	8.0	10	7.0	6.7	5.7
23	7.4	7.4	6.9	6.5	8.6	8.2	8.6	8.5	---	5.7	6.3	7.9
24	7.5	7.4	7.2	6.0	8.2	6.4	8.3	6.7	17	6.0	5.8	6.0
25	6.4	7.8	6.7	8.9	7.6	8.2	8.4	6.9	---	5.4	6.2	5.2
26	7.1	8.6	6.9	7.9	12	7.4	14	7.5	57	6.7	5.9	6.0
27	7.9	7.0	7.1	10	31	7.3	11	7.1	12	---	5.3	---
28	18	11	7.0	11	34	6.6	12	7.3	9.1	11	5.8	---
29	22	7.5	6.8	8.9	26	7.5	8.9	7.5	6.9	26	16	12
30	7.5	7.0	7.3	8.4	---	11	11	6.4	6.7	8.6	---	10
31	7.7	---	6.0	6.8	---	41	---	27	---	7.1	---	---

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

LOWEST DAILY MEAN
MAXIMUM PEAK STAGE
INSTANTANEOUS LOW FLOW

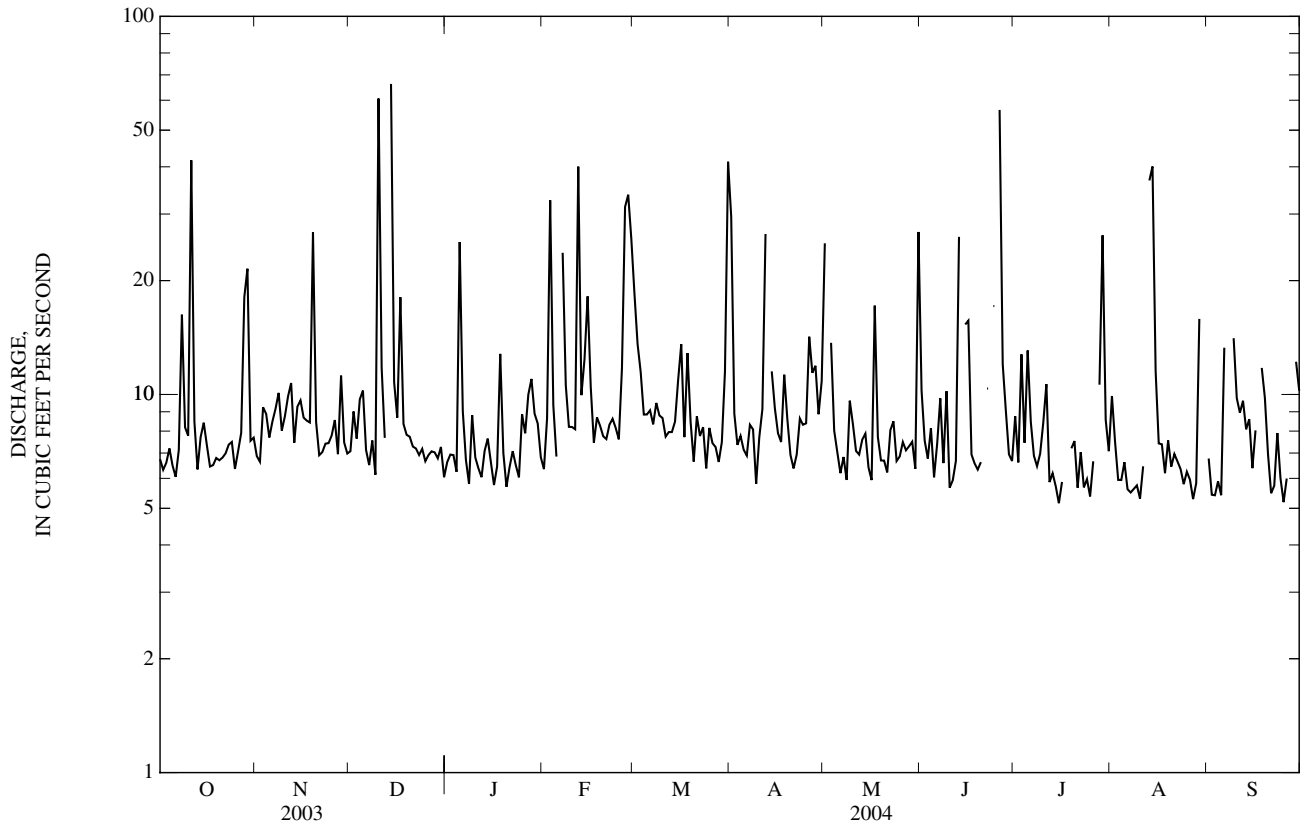
6.0 Dec 31

5.2 Jul 15
11.99 Jul 17
4.0* Jun 11

3.7 Sep 13, 2002
13.14 Jun 7, 2003
1.8* Aug 1, 2002

* See REMARKS.

02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC—Continued



02146300 IRWIN CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'52", long 80°54'16", Mecklenburg County, Hydrologic Unit 03050103, on left bank at sewage-disposal plant of city of Charlotte, 2,200 ft upstream from Southern Railway bridge, 0.7 mi upstream from Taggart Creek, and 4.2 mi southwest of city hall, Charlotte.

DRAINAGE AREA.--30.7 mi².

PERIOD OF RECORD.--May 1962 to current year. Prior to October 1963, published as "Sugar (Irwin) Creek at Charlotte".

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

GAGE.--Water-stage recorder. Datum of gage is 590.87 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges which are poor. Maximum discharge for period of record from rating curve extended above 7,500 ft³/s on basis of step-backwater computation. Minimum discharge for period of record also occurred July 14, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of about 17.3 ft at site 400 ft downstream, from information by plant employee. Peak may have been affected by failure of Lakewood Dam, 5 mi upstream. Flood of Jan. 6, 1962, reached a stage of 14.32 ft, from floodmarks; discharge, 4,120 ft³/s. Flood of April 11, 1962, reached a stage of 15.18 ft, from floodmarks; discharge, 4,740 ft³/s, on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	9.7	12	12	67	86	52	15	17	22	13
2	11	10	11	13	13	42	19	179	11	14	17	11
3	11	12	11	12	86	27	15	46	9.8	38	11	9.7
4	12	13	17	11	20	21	14	19	14	14	11	9.8
5	11	12	22	47	15	19	13	15	8.6	27	11	9.7
6	11	13	12	23	363	19	13	13	9.7	22	11	26
7	12	12	10	13	79	17	13	13	12	11	8.7	818
8	36	16	11	11	26	16	15	12	11	9.6	9.2	788
9	21	11	9.8	17	19	16	11	12	19	10	8.6	43
10	13	11	151	13	18	16	13	20	9.5	9.7	8.6	22
11	104	12	31	12	17	14	13	13	8.9	27	11	17
12	15	13	15	12	104	14	62	20	8.9	10	382	17
13	11	10	55	12	27	14	185	13	68	9.6	208	15
14	12	10	195	13	31	14	29	14	252	9.0	166	16
15	12	11	26	12	57	17	18	12	47	8.2	28	12
16	12	10	17	11	31	28	15	10	37	8.4	16	13
17	10	10	43	11	19	15	14	44	12	206	13	247
18	11	10	17	27	19	21	25	28	10	279	12	30
19	10	58	15	14	17	22	14	17	9.8	14	32	16
20	11	14	14	11	17	e13	13	12	9.8	13	13	13
21	10	11	13	11	15	22	12	10	341	10	16	9.9
22	11	10	16	12	15	13	12	13	28	11	14	10
23	10	10	13	12	15	15	12	14	201	9.9	11	12
24	11	10	13	11	e15	12	11	14	52	9.0	10	10
25	9.0	11	12	16	14	14	11	11	459	8.7	11	8.9
26	10	11	12	14	23	13	17	11	161	10	9.9	9.8
27	11	10	12	20	72	12	16	12	29	307	8.7	212
28	39	17	12	25	99	12	12	13	19	18	9.6	687
29	61	12	12	19	79	12	9.7	12	14	91	36	37
30	13	9.7	13	16	---	24	11	9.8	13	18	53	22
31	12	---	11	14	---	121	---	52	---	13	104	---
TOTAL	555.0	390.7	831.5	477	1,337	702	723.7	735.8	1,900.0	1,262.1	1,282.3	3,164.8
MEAN	17.9	13.0	26.8	15.4	46.1	22.6	24.1	23.7	63.3	40.7	41.4	105
MAX	104	58	195	47	363	121	185	179	459	307	382	818
MIN	9.0	9.7	9.7	11	12	12	9.7	9.8	8.6	8.2	8.6	8.9
CFSM	0.58	0.42	0.87	0.50	1.50	0.74	0.79	0.77	2.06	1.33	1.35	3.44
IN.	0.67	0.47	1.01	0.58	1.62	0.85	0.88	0.89	2.30	1.53	1.55	3.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	37.1	35.3	40.2	56.7	62.4	69.5	44.4	41.7	38.1	35.2	34.4	34.2
MAX	157	137	107	123	124	161	139	204	134	215	118	135
(WY)	(1991)	(1986)	(1984)	(1993)	(1979)	(1993)	(2003)	(1975)	(2003)	(1997)	(1995)	(1975)
MIN	7.35	9.32	10.2	13.4	20.1	18.5	14.9	14.0	6.95	6.67	7.97	6.00
(WY)	(2001)	(1982)	(1966)	(1981)	(2002)	(1985)	(1981)	(1986)	(1986)	(1986)	(1987)	(1983)

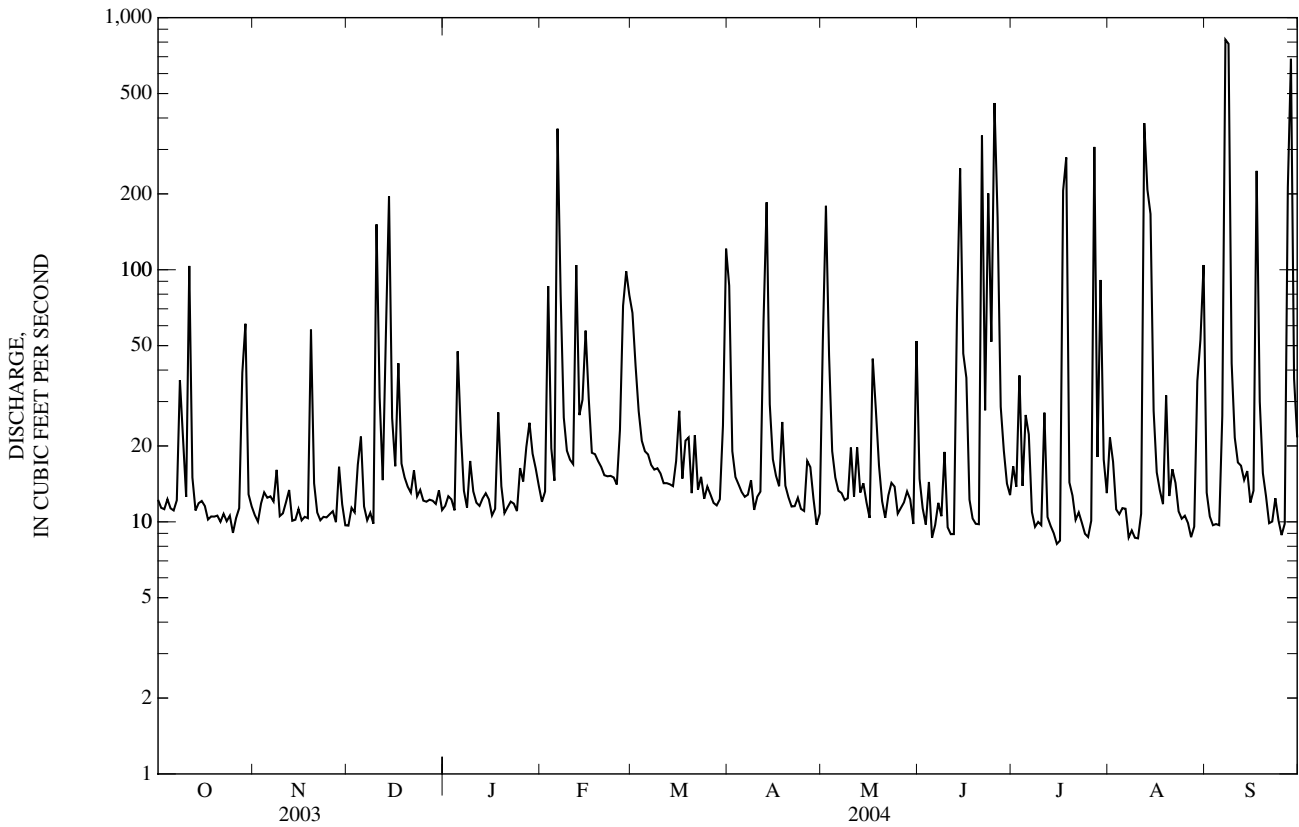
SANTEE RIVER BASIN

02146300 IRWIN CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	27,199.2		13,361.9		44.2	
ANNUAL MEAN	74.5		36.5		85.4	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	2,100	May 22	818	Sep 7	5,010	Jul 23, 1997
LOWEST DAILY MEAN	9.0	Oct 25	8.2	Jul 15	3.1	Sep 25, 1983
ANNUAL SEVEN-DAY MINIMUM	10	Oct 19	9.7	Aug 4	3.5	Oct 5, 1993
MAXIMUM PEAK FLOW			3,660	Jul 18	11,600*	Jul 23, 1997
MAXIMUM PEAK STAGE			12.44	Jul 18	20.38	Jul 23, 1997
INSTANTANEOUS LOW FLOW			6.5	Jul 15	2.8*	Jul 13, 1986
ANNUAL RUNOFF (CFSM)	2.43		1.19		1.44	
ANNUAL RUNOFF (INCHES)	32.96		16.19		19.56	
10 PERCENT EXCEEDS	147		59		80	
50 PERCENT EXCEEDS	26		13		18	
90 PERCENT EXCEEDS	11		10		8.6	

* See REMARKS.

e Estimated.



02146300 IRWIN CREEK NEAR CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 2003 to September 2004.

WATER TEMPERATURE: June 2003 to September 2004.

INSTRUMENTATION.--Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Land Use and Environmental Services Agency to characterize water-quality conditions in the Irwin Creek basin.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	3200, January 27, 2004	36, August 12, 2004
WATER TEMPERATURE, °C	32.2, July 10, 2004	0.0, February 26, 27, 2004

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	3200, January 27	36, August 12
WATER TEMPERATURE, °C	32.2, July 10	0.0, February 26, 27

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	287	244	261	267	245	253	273	255	262	287	273	277
2	287	267	277	275	267	272	276	243	261	274	248	259
3	293	279	286	280	264	272	259	214	232	254	242	249
4	287	259	270	272	229	247	296	250	267	278	252	261
5	280	265	272	282	250	259	280	238	255	281	131	243
6	283	266	276	305	266	285	255	232	241	200	128	159
7	292	282	288	276	260	265	259	249	254	237	200	223
8	285	160	240	277	235	255	267	258	263	254	233	242
9	208	170	189	264	242	254	272	263	267	782	254	468
10	267	208	247	270	260	265	286	83	191	671	435	527
11	257	82	124	273	262	269	223	108	167	440	305	360
12	225	149	195	269	231	243	246	223	233	305	289	297
13	265	225	244	262	240	248	257	73	237	305	273	290
14	280	263	272	278	261	271	214	68	146	282	266	273
15	285	269	276	268	250	258	263	187	218	288	269	275
16	279	261	268	277	256	263	259	247	253	291	272	280
17	285	268	276	277	264	271	715	215	295	292	268	277
18	285	273	279	278	272	276	251	223	232	301	240	266
19	280	271	275	289	146	209	280	251	266	252	236	241
20	280	257	264	227	155	191	270	262	266	271	248	260
21	282	264	271	260	227	241	273	260	266	274	253	265
22	282	257	269	275	259	264	271	226	252	267	253	261
23	287	272	281	267	259	263	281	240	266	260	252	255
24	287	262	272	279	260	266	281	268	272	264	254	258
25	285	264	271	285	268	276	272	266	270	865	244	358
26	291	273	280	272	254	263	270	266	268	2,120	660	888
27	293	277	287	276	246	257	273	269	271	3,200	2,080	2,500
28	288	144	251	281	242	267	273	267	269	2,900	1,440	2,130
29	167	92	129	246	236	241	275	266	271	1,450	722	948
30	232	167	208	257	245	250	297	261	276	722	480	586
31	263	232	252	---	---	---	275	268	272	481	422	443
MONTH	293	82	253	305	146	257	715	68	250	3,200	128	472

02146300 IRWIN CREEK NEAR CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.2	14.9	16.7	17.4	13.3	15.1	9.5	5.7	7.4	7.6	3.8	5.7
2	18.6	14.8	16.4	17.9	13.7	15.6	8.2	5.5	6.8	8.9	6.4	7.5
3	16.3	12.4	14.2	18.1	14.3	16.0	6.9	5.9	6.3	11.4	6.8	8.9
4	18.1	12.9	15.2	19.3	15.7	17.3	5.9	5.2	5.4	14.5	11.0	12.6
5	19.2	14.8	16.7	20.5	17.7	18.9	6.9	5.7	6.3	16.4	13.3	14.8
6	19.1	16.5	17.7	21.6	18.9	20.0	7.8	5.4	6.5	15.2	7.1	11.0
7	19.7	17.6	18.4	21.1	19.1	20.0	6.6	3.8	5.1	7.1	3.7	5.0
8	19.2	17.4	18.2	19.1	15.1	16.8	6.6	3.3	4.8	5.7	3.2	4.4
9	20.2	18.4	19.1	15.1	11.3	13.2	7.5	3.9	5.6	5.2	4.4	4.9
10	19.8	18.3	18.9	12.4	9.3	10.8	11.8	6.3	8.8	4.9	2.9	4.2
11	19.1	17.9	18.5	13.8	9.6	11.6	10.8	7.5	9.0	3.9	1.2	2.5
12	21.2	17.6	19.0	17.1	12.4	14.6	8.0	5.3	6.7	6.3	2.1	3.9
13	21.0	17.6	19.2	16.3	10.2	13.7	7.1	4.7	6.1	7.4	3.7	5.4
14	20.1	18.0	19.5	11.4	8.1	9.6	5.9	4.4	5.2	7.2	3.9	5.5
15	18.2	15.2	16.6	11.5	9.4	10.5	7.0	4.4	5.6	8.0	5.5	6.4
16	17.4	13.2	15.0	14.3	9.9	12.0	7.6	4.6	6.2	7.3	4.0	5.5
17	17.1	13.2	15.1	15.9	13.5	14.5	9.1	6.4	7.9	6.9	4.0	5.5
18	17.7	14.7	15.8	16.5	13.6	15.0	7.1	5.0	6.0	8.7	6.6	7.7
19	17.4	13.0	14.9	17.1	14.8	16.5	7.0	5.1	6.1	7.9	5.2	6.8
20	18.0	13.6	15.6	14.8	11.9	13.2	5.1	2.9	3.9	5.2	2.4	3.8
21	18.6	14.8	16.6	14.1	10.2	12.0	4.3	1.4	2.8	5.1	1.8	3.2
22	17.7	14.8	16.2	13.9	10.1	11.9	5.8	2.4	3.9	5.9	1.7	3.7
23	15.0	12.4	13.8	13.9	10.1	11.9	7.9	3.6	5.7	5.7	2.7	4.2
24	15.4	12.1	13.4	14.6	11.4	12.8	11.0	7.9	9.3	7.5	2.7	4.9
25	16.1	12.6	14.1	11.6	8.3	9.6	7.9	4.4	5.8	6.3	1.2	3.8
26	16.2	13.9	15.1	10.7	6.9	8.7	5.6	2.6	4.0	1.2	0.5	0.8
27	17.9	15.8	16.8	12.1	9.0	10.5	5.9	2.3	4.0	3.0	0.9	2.0
28	16.8	14.3	15.5	14.3	10.9	12.9	6.6	3.0	4.6	4.3	0.9	2.6
29	15.8	13.5	14.3	10.9	6.4	8.2	7.9	4.0	5.8	5.4	1.2	3.2
30	16.4	12.3	14.1	8.5	4.9	6.6	9.6	7.1	8.6	6.9	3.4	4.8
31	16.8	13.1	14.7	---	---	---	7.4	4.5	6.0	5.7	2.5	4.1
MONTH	21.2	12.1	16.3	21.6	4.9	13.3	11.8	1.4	6.0	16.4	0.5	5.5
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.4	1.6	3.3	9.6	5.3	7.5	14.8	9.7	11.8	21.5	18.7	20.0
2	4.5	2.3	3.5	12.7	9.2	10.8	14.4	10.5	11.9	22.3	19.4	20.6
3	5.9	4.0	4.8	15.6	10.8	12.9	16.5	9.1	12.5	20.7	16.1	18.6
4	7.0	3.0	4.8	18.0	12.6	15.0	18.1	10.9	13.6	20.3	13.4	16.2
5	5.2	3.9	4.6	18.5	14.5	16.3	17.4	9.1	12.6	22.3	14.7	17.8
6	5.5	4.5	4.9	18.8	15.7	16.8	18.5	9.5	13.3	24.7	16.7	20.1
7	7.6	5.5	6.3	18.3	13.0	15.1	19.2	11.2	14.9	26.8	18.4	21.8
8	6.8	3.5	5.0	15.1	10.0	12.1	17.8	14.2	15.8	27.1	19.5	22.7
9	5.4	3.8	4.6	11.0	8.6	9.7	22.2	12.9	16.7	27.6	21.1	23.6
10	7.0	4.0	5.5	11.9	7.9	9.4	21.1	14.3	17.3	27.1	20.3	23.0
11	8.4	5.6	6.9	13.5	6.0	9.3	18.9	15.6	17.1	26.3	20.2	22.7
12	7.5	5.4	6.1	15.4	8.2	11.2	15.7	12.0	13.2	24.4	21.1	22.4
13	8.6	4.2	6.2	14.5	8.3	10.9	15.4	11.7	13.4	24.5	20.8	22.3
14	8.5	7.2	7.7	15.8	9.2	12.0	14.0	11.4	12.8	25.4	20.5	22.5
15	8.4	6.9	8.0	14.5	12.9	13.6	18.2	9.5	13.3	26.3	20.4	22.8
16	8.0	5.2	6.4	16.6	13.3	14.5	19.8	12.2	15.6	26.4	20.6	23.0
17	5.9	4.3	4.9	15.9	12.2	13.6	22.4	13.6	17.3	26.4	21.2	23.4
18	8.5	3.2	5.5	12.2	10.3	11.3	23.9	15.7	19.1	26.9	21.0	23.5
19	9.8	3.9	6.6	17.4	9.7	12.9	24.3	16.9	20.0	26.8	21.5	23.6
20	11.2	5.7	8.4	---	---	---	24.3	17.8	20.5	29.1	21.7	24.7
21	14.1	10.0	11.5	18.4	11.8	14.8	23.2	17.8	20.1	29.9	22.5	25.6
22	12.2	7.5	9.6	14.7	8.6	11.0	24.4	17.3	20.1	29.6	23.3	25.9
23	9.2	6.9	8.2	14.5	6.7	9.9	25.0	17.9	20.8	29.1	23.5	25.6
24	---	---	---	16.2	7.6	11.3	26.7	18.9	22.0	29.1	22.8	25.4
25	10.8	7.8	9.2	18.6	10.2	13.9	25.2	20.4	22.5	30.2	23.2	26.1
26	8.3	0.0	4.2	20.9	12.5	16.1	21.7	18.0	20.0	27.8	24.0	25.5
27	4.1	0.0	2.4	21.3	14.4	17.5	20.6	15.9	17.7	28.5	22.3	24.8
28	7.0	1.5	4.1	21.9	16.0	18.5	21.4	13.4	16.7	27.5	23.0	24.7
29	8.8	3.1	5.8	20.6	14.4	17.0	23.0	14.3	18.0	28.6	22.4	24.9
30	---	---	---	16.3	12.1	13.5	21.7	16.5	18.9	27.5	23.4	25.1
31	---	---	---	13.8	11.2	12.0	---	---	---	24.8	22.5	23.7
MONTH	---	---	---	---	---	---	26.7	9.1	16.6	30.2	13.4	23.0

02146315 TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°12'24", long 80°55'19", Mecklenburg County, Hydrologic Unit 03050103, on right bank at northeast corner of intersection of Billy Graham Parkway and NC Highway 160 (West Blvd), 1.2 mi upstream of confluence with Irwin Creek, and 5.0 mi from city hall, Charlotte.

DRAINAGE AREA.--5.38 mi².

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage 604.27 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow for part of Aug. 8, 2002. Minimum discharge for current water year also occurred July 16, 17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.6	1.5	1.5	1.6	7.5	14	9.4	0.61	0.55	2.2	0.92
2	1.1	1.7	1.5	1.5	1.8	4.7	2.5	59	0.45	0.50	0.98	0.82
3	1.2	1.7	1.5	1.7	13	3.2	2.3	4.2	0.43	0.94	0.81	0.82
4	1.2	1.8	3.3	1.5	2.1	2.8	2.1	1.6	0.81	1.1	1.5	0.89
5	1.2	2.8	3.7	5.3	1.9	2.6	1.9	1.1	0.47	e0.77	0.69	1.1
6	1.0	1.7	2.4	2.2	e115	2.5	1.8	0.90	0.41	e0.44	e0.75	9.4
7	1.1	1.7	1.6	1.5	9.3	2.4	1.8	0.82	0.44	0.37	0.38	129
8	4.4	3.0	1.5	1.5	3.1	2.3	1.8	0.77	0.73	0.34	e0.65	e79
9	3.4	1.6	1.5	2.2	2.5	2.4	1.7	1.0	1.5	0.31	e0.51	e3.5
10	2.2	1.5	27	1.6	2.2	2.4	1.7	1.1	0.55	2.7	0.39	e1.9
11	13	1.6	3.2	1.5	2.1	2.2	1.8	0.63	0.45	2.2	0.40	e1.4
12	e1.8	1.7	1.7	1.5	20	2.2	8.3	0.69	0.34	0.33	71	e1.0
13	e1.5	1.6	17	1.6	3.3	2.1	32	0.64	19	0.31	e52	1.4
14	e1.6	1.5	26	1.5	4.2	2.2	3.3	0.61	53	0.26	e62	3.3
15	e1.7	1.5	3.0	1.6	5.5	2.6	2.1	0.59	2.6	0.25	e16	1.4
16	e1.5	1.5	2.2	1.5	3.0	3.7	1.8	0.57	8.6	0.24	e6.5	1.9
17	e1.6	1.5	6.0	1.5	2.3	2.2	1.7	1.5	0.71	157	e1.2	e23
18	e1.6	1.5	2.3	4.2	2.2	3.2	1.6	0.57	0.56	36	e0.70	e2.5
19	e1.7	9.8	2.0	1.8	2.3	2.7	1.6	0.54	0.54	1.4	5.6	e1.2
20	e1.6	1.9	1.8	1.5	2.1	2.1	1.6	0.52	0.49	0.92	1.2	e1.1
21	e1.7	1.5	1.8	1.5	2.2	3.4	1.6	0.50	35	0.71	e6.4	e1.1
22	e1.4	1.5	1.8	1.5	2.0	2.0	1.5	0.49	1.8	0.46	e1.9	e1.0
23	e1.3	1.5	1.8	1.5	2.1	2.0	1.4	0.73	57	0.48	0.74	e1.1
24	e1.3	1.6	1.7	1.6	2.1	2.0	1.4	0.52	5.1	0.44	0.72	e1.0
25	e1.3	1.6	1.5	2.4	2.0	2.0	1.4	0.42	80	0.43	0.67	e1.0
26	e1.4	1.6	1.6	e2.2	3.4	2.0	2.5	0.43	19	0.56	0.59	e1.2
27	e1.5	1.6	1.6	e3.2	13	2.0	2.0	0.61	1.5	38	0.58	67
28	7.0	2.8	1.5	e5.0	14	2.0	1.5	0.79	1.0	1.2	0.60	e27
29	8.9	1.9	1.5	2.2	11	1.9	e1.5	0.52	0.73	20	e6.6	e2.5
30	1.8	1.6	1.7	1.9	---	3.8	1.5	0.42	0.63	1.4	e2.2	e1.5
31	1.8	---	1.5	1.7	---	18	---	7.7	---	0.84	e9.4	---
TOTAL	74.9	60.4	128.7	63.4	251.3	99.1	103.7	99.88	294.45	271.45	275.66	369.95
MEAN	2.42	2.01	4.15	2.05	8.67	3.20	3.46	3.22	9.82	8.76	8.89	12.3
MAX	13	9.8	27	5.3	115	18	32	59	80	157	71	129
MIN	1.0	1.5	1.5	1.5	1.6	1.9	1.4	0.42	0.34	0.24	0.38	0.82
CFSM	0.45	0.37	0.77	0.38	1.61	0.59	0.64	0.60	1.82	1.63	1.65	2.29
IN.	0.52	0.42	0.89	0.44	1.74	0.69	0.72	0.69	2.04	1.88	1.91	2.56

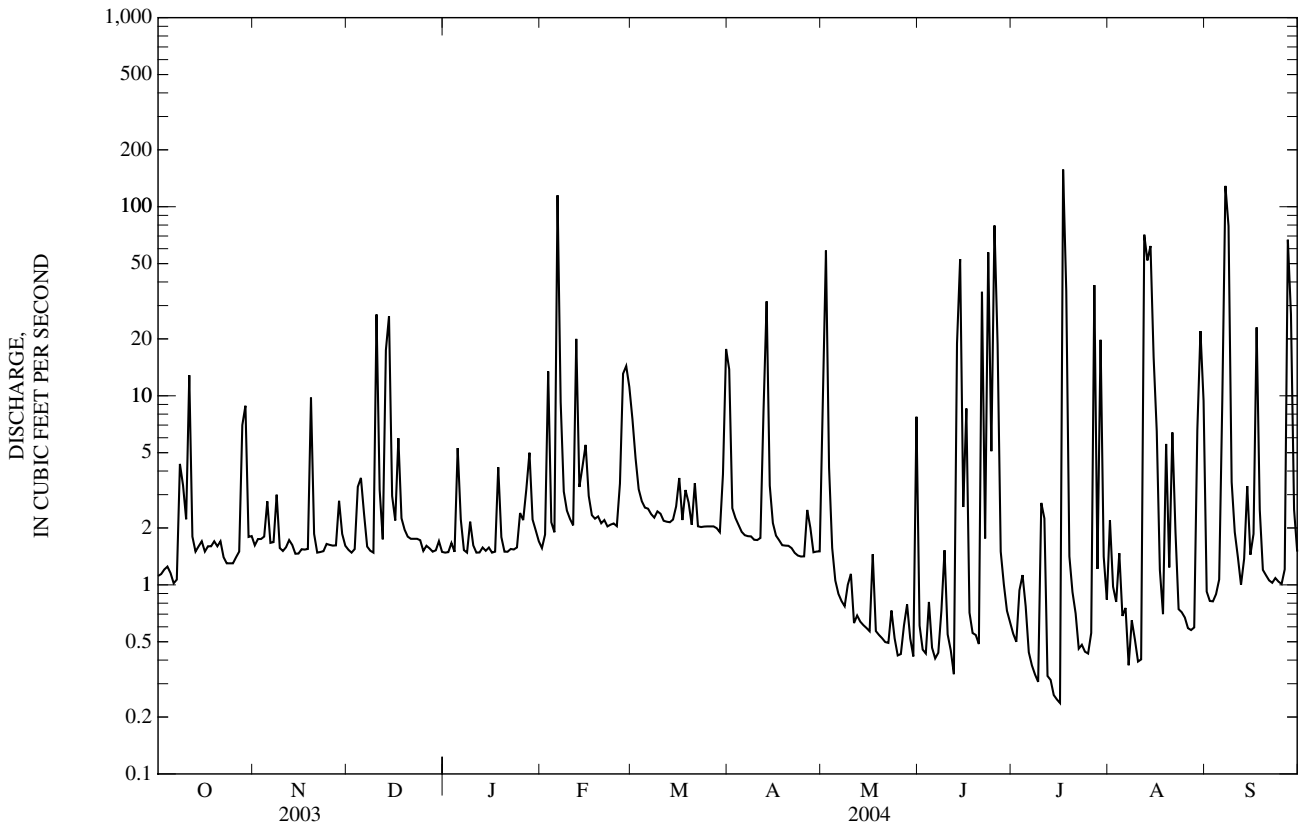
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	3.50	2.55	4.57	4.49	5.55	7.77	6.71	6.72	5.71	4.23	5.78	5.34
MAX	9.39	6.61	14.1	6.97	8.83	20.5	22.1	30.0	16.4	9.59	22.1	12.3
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.35	0.65	1.48	2.05	2.26	2.91	1.25	1.36	0.99	1.03	0.20	3.11
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2000)	(2002)	(2001)	(2001)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1998 - 2004	
ANNUAL TOTAL	4,491.67		2,092.89		5.30	
ANNUAL MEAN	12.3		5.72		2.35	
HIGHEST ANNUAL MEAN					14.1	2003
LOWEST ANNUAL MEAN					2.35	2001
HIGHEST DAILY MEAN	388	May 22	157	Jul 17	388	May 22, 2003
LOWEST DAILY MEAN	0.75	Sep 30	0.24	Jul 16	0.01	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 29	0.52	May 20	0.08	Aug 3, 2002
MAXIMUM PEAK FLOW			1,900	Jul 17	2,660	Jun 7, 2003
MAXIMUM PEAK STAGE			8.97	Jul 17	10.45	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.22*	Jul 15	0.00*	Aug 8, 2002
ANNUAL RUNOFF (CFSM)	2.29		1.06		0.985	
ANNUAL RUNOFF (INCHES)	31.06		14.47		13.38	
10 PERCENT EXCEEDS	24		9.4		9.4	
50 PERCENT EXCEEDS	3.6		1.6		1.3	
90 PERCENT EXCEEDS	1.5		0.55		0.24	

* See REMARKS.

e Estimated.



02146348 COFFEY CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'45", long 80°55'37", Mecklenburg County, Hydrologic Unit 03050103 on left bank at culvert on State Highway 49, 1.2 mi upstream from mouth, and 7.5 mi southwest of Charlotte.

DRAINAGE AREA.--9.14 mi².

PERIOD OF RECORD.-- October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 565.72 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 950 ft³/s. Minimum discharge for period of record also occurred July 13, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.6	1.5	1.5	1.5	18	38	11	1.4	4.9	2.0	1.4
2	1.5	1.6	1.5	1.5	1.7	15	11	62	0.88	4.6	1.8	1.1
3	1.5	1.6	1.5	1.5	19	7.5	9.3	11	0.78	13	2.0	0.94
4	1.4	1.6	2.6	1.6	3.0	5.4	8.4	4.9	1.8	6.6	1.3	0.90
5	1.5	1.6	e7.0	4.6	2.3	4.6	7.5	3.4	0.89	5.2	1.2	0.84
6	1.5	1.7	e2.9	3.0	119	4.2	6.7	2.8	0.72	3.0	1.1	3.6
7	1.6	1.7	e1.8	1.6	35	3.7	6.6	3.1	0.73	2.7	0.92	137
8	4.1	3.0	e1.7	1.5	8.0	3.4	6.5	2.2	11	2.4	0.78	144
9	e2.8	1.6	1.5	2.1	5.8	3.2	6.3	2.1	12	2.4	0.74	12
10	1.9	1.4	44	1.8	4.7	3.4	6.1	2.2	2.9	2.4	0.83	5.0
11	13	1.5	7.7	1.5	4.1	3.1	6.1	1.8	1.6	7.0	2.2	3.4
12	2.4	1.4	3.5	1.5	26	2.9	18	1.8	1.3	2.5	64	2.3
13	1.9	1.4	6.5	1.5	6.3	2.8	46	1.7	38	2.3	66	1.9
14	1.9	1.4	65	1.4	5.8	2.7	8.9	1.6	59	2.1	88	2.1
15	1.8	1.3	6.2	1.4	8.3	2.9	5.4	1.3	12	1.9	8.7	1.7
16	1.6	1.4	3.7	1.4	5.2	4.5	4.1	2.0	18	1.8	4.3	1.7
17	1.6	1.4	7.2	1.3	3.6	3.1	3.6	1.9	4.0	7.5	2.8	46
18	1.6	1.4	3.3	4.0	3.3	2.9	3.2	2.2	2.7	173	2.1	5.9
19	1.6	11	2.6	2.1	3.0	4.0	3.3	2.0	2.0	6.6	1.7	2.6
20	1.6	2.8	2.2	1.6	3.0	3.1	3.0	1.3	1.7	4.2	1.7	1.9
21	1.6	1.8	2.0	1.6	2.9	5.4	2.8	1.1	35	3.2	14	1.6
22	1.5	1.6	2.0	1.5	2.5	3.4	2.6	1.0	9.6	2.7	7.7	1.3
23	1.5	1.5	1.9	1.5	2.5	3.4	2.5	1.7	99	2.6	2.9	1.2
24	1.5	1.6	1.9	1.4	2.6	3.6	2.4	2.3	58	2.4	1.8	1.1
25	1.5	1.6	1.8	1.8	2.5	3.8	2.4	1.0	98	2.2	1.5	1.3
26	1.6	1.5	1.6	1.9	3.4	4.0	2.6	0.88	87	2.8	1.3	0.96
27	2.1	1.5	1.6	2.6	18	4.4	3.3	1.0	12	46	1.2	30
28	5.5	2.6	1.6	3.6	16	4.5	2.1	1.4	7.9	4.3	1.1	161
29	12	1.8	1.6	2.3	18	4.8	1.8	1.8	5.8	22	3.5	7.8
30	2.1	1.5	1.6	1.9	---	7.8	1.9	0.72	4.8	4.4	7.6	4.1
31	1.8	---	1.5	1.6	---	31	---	9.1	---	2.6	3.9	---
TOTAL	81.1	59.4	193.0	60.1	337.0	176.5	232.4	144.30	590.50	351.3	300.67	586.64
MEAN	2.62	1.98	6.23	1.94	11.6	5.69	7.75	4.65	19.7	11.3	9.70	19.6
MAX	13	11	65	4.6	119	31	46	62	99	173	88	161
MIN	1.4	1.3	1.5	1.3	1.5	2.7	1.8	0.72	0.72	1.8	0.74	0.84
CFSM	0.29	0.22	0.68	0.21	1.27	0.62	0.85	0.51	2.15	1.24	1.06	2.14
IN.	0.33	0.24	0.79	0.24	1.37	0.72	0.95	0.59	2.40	1.43	1.22	2.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

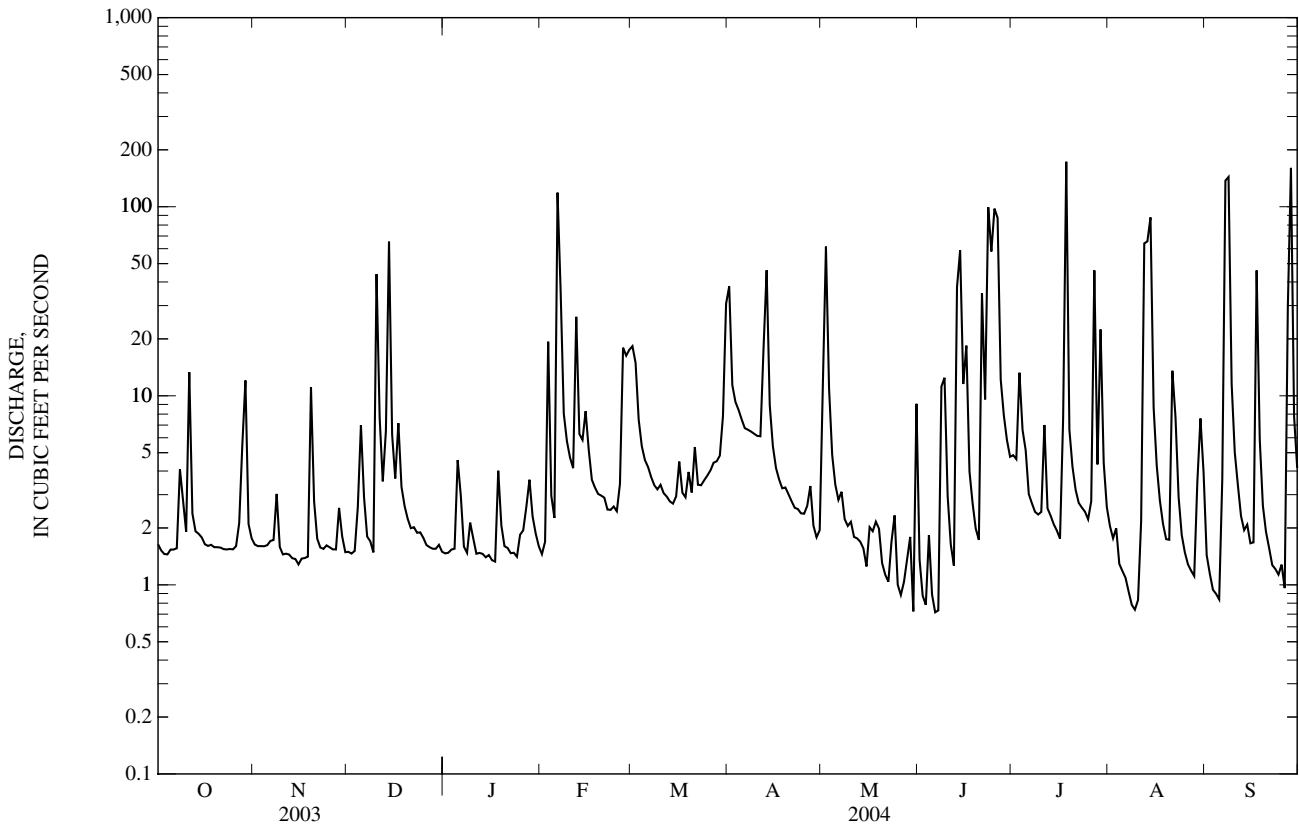
MEAN	5.70	4.68	7.56	8.35	9.98	14.9	14.4	11.9	10.1	6.31	8.67	9.10
MAX	15.0	14.7	23.8	12.4	14.4	35.5	45.7	51.6	27.9	12.9	30.8	19.6
(WY)	(2000)	(2003)	(2003)	(2002)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.88	1.81	2.74	1.94	3.93	5.17	2.85	2.97	1.63	2.51	0.44	4.01
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2000)	(2002)	(1999)	(2001)	(1999)

02146348 COFFEY CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	7,386.0		3,112.91		9.29	
ANNUAL MEAN	20.2		8.51		4.84	
HIGHEST ANNUAL MEAN					23.6	2003
LOWEST ANNUAL MEAN					4.84	2002
HIGHEST DAILY MEAN	626	May 22	173	Jul 18	626	May 22, 2003
LOWEST DAILY MEAN	1.3	Nov 15	0.72	May 30	0.05	Aug 28, 2001
ANNUAL SEVEN-DAY MINIMUM	1.4	Nov 12	0.98	Aug 4	0.09	Aug 23, 2001
MAXIMUM PEAK FLOW			844	Jul 18	1440*	Jun 8, 2003
MAXIMUM PEAK STAGE			10.33	Jul 18	11.75	Jun 8, 2003
INSTANTANEOUS LOW FLOW			0.59	Aug 8	0.02*	Sep 20, 2001
ANNUAL RUNOFF (CFSM)	2.21		0.931		1.02	
ANNUAL RUNOFF (INCHES)	30.06		12.67		13.81	
10 PERCENT EXCEEDS	43		13		17	
50 PERCENT EXCEEDS	5.5		2.5		2.5	
90 PERCENT EXCEEDS	1.6		1.4		0.66	

* See REMARKS.

e Estimated.



02146348 COFFEY CREEK NEAR CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	15.9	14.2	15.2	---	---	---	---	---	---	5.6	3.7	4.8
2	16.1	14.4	15.4	---	---	---	---	---	---	6.8	5.5	6.2
3	14.4	12.8	13.6	---	---	---	---	---	---	10.0	6.1	7.8
4	14.9	12.6	13.8	16.6	14.9	15.6	---	---	---	12.5	10.0	11.3
5	16.2	14.3	15.2	18.1	16.6	17.4	---	---	---	17.4	12.5	13.8
6	---	---	---	23.2	17.9	18.8	---	---	---	14.4	8.0	10.9
7	---	---	---	19.4	18.5	19.0	---	---	---	8.0	4.2	5.3
8	---	---	---	---	---	---	---	---	---	4.9	3.2	4.0
9	---	---	---	---	---	---	6.0	3.6	4.9	7.4	4.2	5.3
10	20.2	18.1	18.5	---	---	---	11.3	5.8	8.7	4.2	3.2	3.8
11	19.0	17.7	18.4	11.9	9.6	10.8	10.3	7.4	8.7	3.2	1.4	2.3
12	19.1	17.4	18.4	15.3	11.9	13.4	7.4	4.9	6.1	5.0	2.0	3.5
13	19.0	17.2	18.3	15.5	11.6	14.2	8.6	4.1	5.4	9.6	3.5	5.0
14	---	---	---	11.6	8.9	9.7	6.2	4.6	5.2	5.5	3.5	4.7
15	---	---	---	9.9	8.8	9.4	6.8	4.5	5.6	6.8	4.9	5.8
16	15.5	13.6	14.6	12.2	9.5	10.6	7.2	4.2	5.5	5.9	3.6	4.7
17	15.2	13.4	14.4	---	---	---	9.5	6.1	7.4	6.4	3.3	4.5
18	15.8	14.5	15.2	---	---	---	6.5	4.5	5.6	9.1	6.0	7.3
19	14.9	13.2	14.2	---	---	---	6.2	5.2	5.8	7.8	5.6	6.7
20	15.5	13.6	14.6	---	---	---	5.5	3.3	4.0	5.6	2.7	3.8
21	16.4	14.6	15.5	12.5	10.2	11.4	3.3	1.5	2.6	3.7	1.5	2.8
22	16.6	15.0	15.9	11.8	10.0	11.2	4.4	1.8	3.1	4.5	1.5	3.1
23	---	---	---	11.6	9.9	11.0	7.0	2.9	4.6	4.5	2.8	3.7
24	---	---	---	12.9	10.6	11.6	9.0	7.0	8.1	6.2	2.5	4.2
25	13.5	12.5	13.0	---	---	---	7.8	4.4	5.4	6.2	0.0	3.6
26	14.7	13.3	14.0	---	---	---	4.4	2.4	3.5	0.8	0.0	0.4
27	16.3	14.7	15.6	---	---	---	4.0	2.0	3.2	2.9	0.8	1.7
28	16.9	14.0	15.3	---	---	---	4.5	2.4	3.7	5.5	1.2	2.4
29	15.1	13.6	14.3	---	---	---	6.9	3.2	4.7	4.2	0.8	2.5
30	14.2	11.9	13.3	---	---	---	9.3	6.9	8.0	5.2	2.3	3.8
31	---	---	---	---	---	---	7.1	4.4	5.5	4.8	2.3	3.5
MONTH	---	---	---	---	---	---	---	---	---	17.4	0.0	4.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.5	1.2	2.6	8.4	4.3	6.2	14.1	10.2	12.0	22.3	16.9	19.1
2	6.0	1.8	2.8	10.7	7.1	8.7	12.8	10.3	11.5	---	---	---
3	5.4	3.4	4.5	14.1	9.2	11.3	15.2	8.8	12.0	---	---	---
4	5.6	2.5	4.1	16.0	10.9	13.2	15.0	10.3	12.7	16.0	13.2	14.8
5	6.1	3.0	4.0	16.6	13.0	14.7	13.8	8.8	11.6	---	---	---
6	6.6	3.9	4.9	16.6	14.8	15.6	14.3	8.9	11.9	---	---	---
7	7.3	5.1	5.9	16.4	11.9	14.2	16.0	10.4	13.4	---	---	---
8	6.1	3.4	4.8	13.8	9.7	11.8	15.5	13.0	14.3	20.6	17.9	19.5
9	4.9	3.1	4.0	11.2	7.9	9.0	17.7	12.3	15.1	21.4	19.5	20.6
10	6.3	3.5	4.8	10.5	7.6	8.9	17.4	13.3	15.6	---	---	---
11	7.2	4.9	6.0	10.9	5.4	8.5	17.0	14.9	16.1	20.6	19.1	20.0
12	7.1	5.3	6.0	12.2	7.5	10.1	16.1	12.2	13.2	24.7	19.8	20.4
13	8.2	4.2	6.1	11.7	7.6	10.0	15.6	11.8	13.7	20.8	19.5	20.1
14	8.2	6.2	6.9	12.9	8.2	10.8	14.2	11.9	13.1	---	---	---
15	8.1	6.8	7.5	14.0	11.6	12.4	16.1	9.5	12.8	20.8	19.3	19.9
16	7.4	5.2	6.3	15.6	12.4	13.7	17.3	11.3	14.4	24.1	19.0	20.0
17	5.3	3.9	4.5	14.4	11.7	13.0	18.5	12.8	15.9	22.1	20.2	21.0
18	7.1	3.0	5.1	12.6	9.7	10.7	19.6	14.5	17.2	---	---	---
19	8.0	3.1	5.8	15.2	9.3	12.1	20.2	15.9	18.3	---	---	---
20	10.1	4.7	7.4	15.0	9.9	12.1	---	---	---	22.7	20.3	21.4
21	12.5	9.4	10.8	16.5	12.6	14.2	19.6	17.0	18.5	22.8	21.0	21.8
22	10.6	6.5	8.6	12.6	8.3	10.3	19.7	16.5	18.3	---	---	---
23	8.9	6.0	7.2	11.0	6.3	8.9	---	---	---	---	---	---
24	9.7	7.4	8.4	12.3	6.9	9.6	---	---	---	---	---	---
25	9.4	7.7	8.7	14.8	9.2	12.0	---	---	---	24.5	21.9	23.0
26	8.2	0.1	4.1	16.7	11.4	14.2	---	---	---	24.3	22.1	23.1
27	4.0	0.2	1.7	18.0	13.3	15.7	---	---	---	---	---	---
28	6.5	1.6	3.9	18.4	15.3	17.1	---	---	---	24.6	21.5	22.6
29	8.2	2.8	5.2	17.6	14.2	16.0	16.4	13.7	15.3	23.3	21.2	22.1
30	---	---	---	16.3	11.7	13.2	20.2	15.5	16.4	---	---	---
31	---	---	---	13.6	11.3	12.2	---	---	---	---	---	---
MONTH	12.5	0.1	5.6	18.4	4.3	11.9	---	---	---	---	---	---

0214635212 CRN28

LOCATION.--Lat 35°06'57", long 80°54'49", Mecklenburg County, Hydrologic Unit 03050103, unnamed tributary to Sugar Creek at Crompton Street, Charlotte, NC.

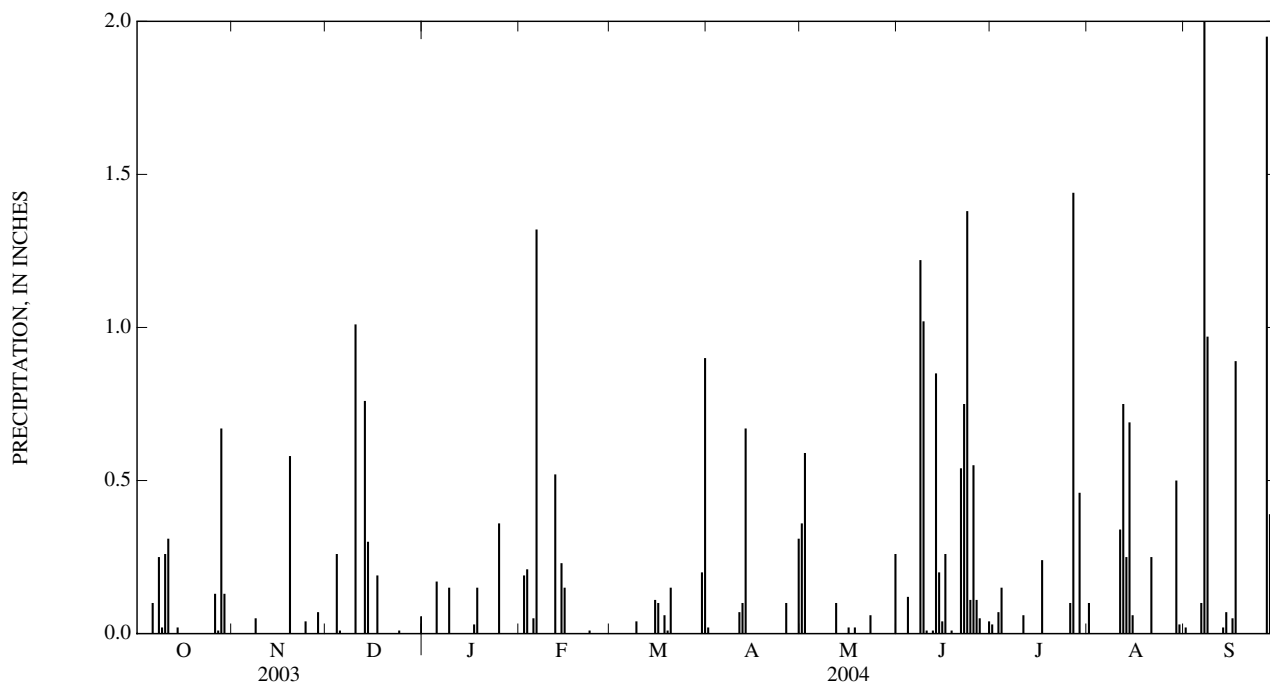
PERIOD OF RECORD.--April 1995 to current year. Records for period April 1995 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.36	0.00	0.03	0.10	0.02
2	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.59	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.07	0.00	0.00
4	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.00	0.00
5	0.00	0.00	0.01	0.17	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.10	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.10
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
8	0.25	0.05	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.97
9	0.02	0.00	0.00	0.15	0.00	0.04	0.00	0.00	1.02	0.00	0.00	0.00
10	0.26	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.31	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.06	0.34	0.00
12	0.00	0.00	0.00	0.00	0.52	0.00	0.10	0.10	0.01	0.00	0.75	0.00
13	0.00	0.00	0.76	0.00	0.00	0.00	0.67	0.00	0.85	0.00	0.25	0.02
14	0.02	0.00	0.30	0.00	0.23	0.00	0.00	0.00	0.20	0.00	0.69	0.07
15	0.00	0.00	0.00	0.00	0.15	0.11	0.00	0.00	0.04	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.02	0.26	0.00	0.00	0.05
17	0.00	0.00	0.19	0.03	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.89
18	0.00	0.00	0.00	0.15	0.00	0.06	0.00	0.02	0.01	0.00	0.00	0.00
19	0.00	0.58	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.25	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.06	1.38	0.00	0.00	0.00
24	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
25	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00
26	0.13	0.00	0.00	0.00	---	0.00	0.10	0.00	0.11	0.10	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.44	0.00	1.95
28	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.50	0.00
30	0.00	0.00	0.00	0.00	---	0.20	0.31	0.00	0.04	0.00	0.03	0.00
31	0.00	---	0.00	0.00	---	0.90	---	0.26	---	0.00	0.00	---
TOTAL	1.90	0.74	2.54	0.86	---	1.57	1.27	1.41	7.27	2.55	2.97	6.46



02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC

LOCATION.--Lat 35°05'27", long 80°53'58", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of bridge at N.C. Highway 51, 0.3 mi upstream from McCullough Branch, and 0.6 mi northwest of city hall, Pineville.

DRAINAGE AREA.--65.3 mi².

PERIOD OF RECORD.-- Occasional discharge measurements, water years 1978-94. October 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 520.95 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. A daily average of 15.4 ft³/s of treated effluent from Irwin Creek wastewater treatment plant was discharged into the stream above the gage. Maximum discharge for period of record from rating curve extended above 9,710 ft³/s. Maximum discharge and peak stage for current water year also occurred Sept. 28. Minimum discharge for period of record also occurred Aug. 31, 2001. Minimum discharge for current water year also occurred Aug. 28, 29, Sept. 5, 6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	34	34	34	34	195	247	105	46	46	39	37
2	32	33	35	35	35	162	69	269	35	46	53	30
3	31	33	35	35	150	88	53	193	31	78	36	27
4	32	36	36	35	56	62	47	61	36	70	33	27
5	32	35	63	42	43	53	45	45	31	46	31	26
6	31	37	38	87	444	50	44	43	29	61	32	34
7	33	35	34	39	552	47	42	40	31	36	29	761
8	45	41	34	36	88	44	43	40	59	35	28	2,160
9	65	37	34	41	60	46	41	37	103	35	27	145
10	36	33	199	41	53	48	40	44	56	34	27	74
11	155	33	160	36	50	44	39	37	34	59	29	57
12	46	36	52	35	184	42	96	39	32	35	254	51
13	36	33	45	35	92	42	289	40	170	32	661	45
14	35	31	426	36	66	40	114	38	213	31	366	43
15	34	32	99	35	105	41	59	35	260	29	85	37
16	34	32	54	33	92	59	50	35	114	30	49	35
17	32	34	83	35	53	48	46	74	49	30	39	380
18	32	35	58	52	49	40	53	35	38	674	32	110
19	31	98	44	45	47	56	44	59	35	62	32	49
20	32	58	41	35	44	40	43	36	32	46	46	42
21	32	37	39	34	42	59	41	34	379	39	44	37
22	32	35	42	34	40	41	40	34	120	37	86	35
23	31	35	38	35	40	42	40	33	311	36	32	35
24	31	35	39	33	41	40	38	41	492	33	29	34
25	31	35	36	35	39	40	38	32	277	32	29	31
26	31	34	35	41	43	40	38	31	785	32	28	30
27	34	36	36	39	112	39	49	32	100	393	27	84
28	45	35	36	54	177	38	38	31	63	101	27	1,600
29	161	42	36	52	182	37	36	36	52	221	31	121
30	43	33	37	41	---	46	35	30	45	72	115	68
31	35	---	36	38	---	172	---	79	---	41	153	---
TOTAL	1,342	1,133	2,014	1,238	3,013	1,841	1,897	1,718	4,058	2,552	2,529	6,245
MEAN	43.3	37.8	65.0	39.9	104	59.4	63.2	55.4	135	82.3	81.6	208
MAX	161	98	426	87	552	195	289	269	785	674	661	2,160
MIN	31	31	34	33	34	37	35	30	29	29	27	26
CFM	0.66	0.58	0.99	0.61	1.59	0.91	0.97	0.85	2.07	1.26	1.25	3.19
IN.	0.76	0.65	1.15	0.71	1.72	1.05	1.08	0.98	2.31	1.45	1.44	3.56

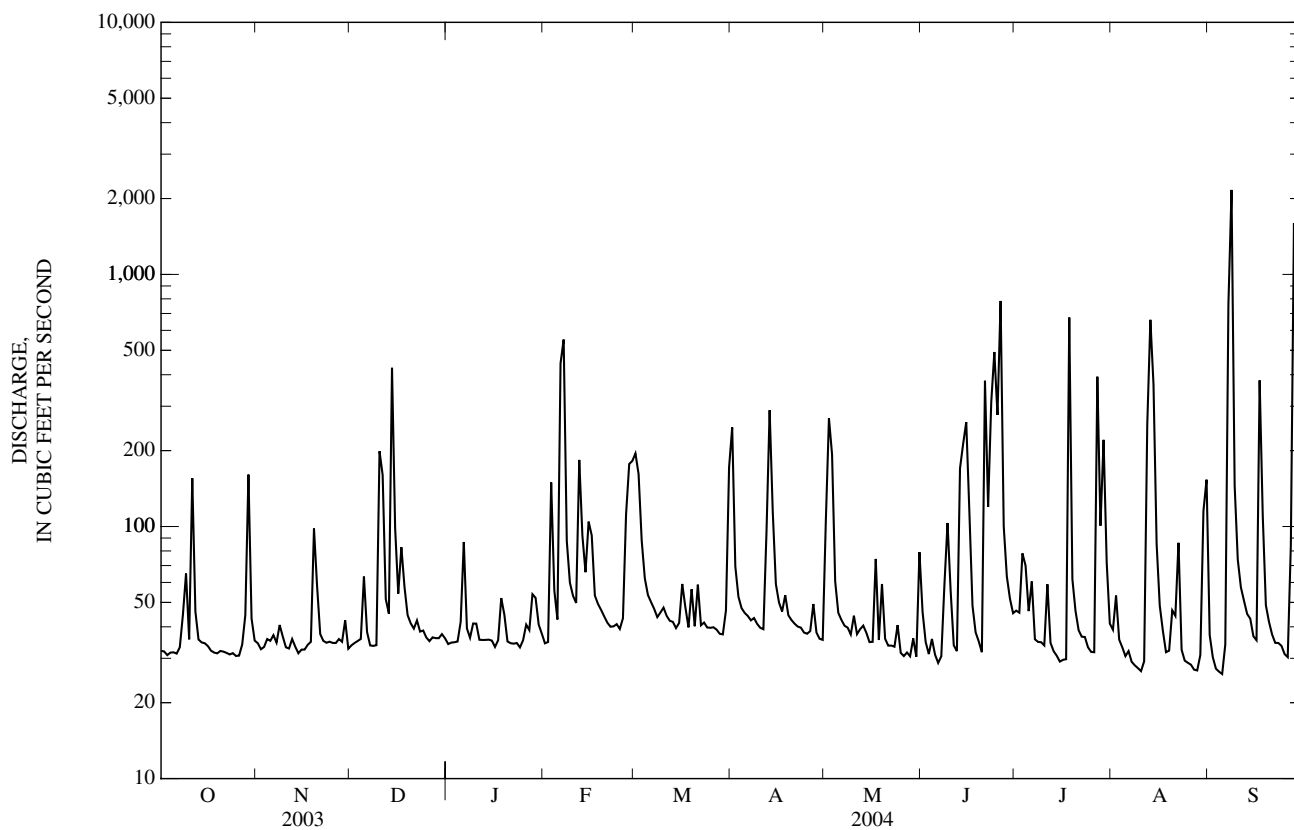
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

MEAN	79.9	70.8	78.5	113	123	127	120	92.1	95.5	101	78.3	83.5
MAX	154	182	174	237	232	296	321	380	271	315	171	208
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	25.7	33.5	40.6	39.9	49.7	55.7	41.0	34.2	32.7	43.0	24.8	51.5
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2000)	(2002)	(2001)	(2001)	(1997)

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	59,383		29,580		96.8	
ANNUAL MEAN	163		80.8		186	
HIGHEST ANNUAL MEAN					57.3	2003
LOWEST ANNUAL MEAN					186	2001
HIGHEST DAILY MEAN	3,520	May 22	2,160	Sep 8	4,790	Jul 23, 1997
LOWEST DAILY MEAN	31	Sep 21	26	Sep 5	18	Aug 1, 2001
ANNUAL SEVEN-DAY MINIMUM	31	Oct 19	29	Aug 5	21	Sep 7, 2002
MAXIMUM PEAK FLOW			2,780*	Sep 8	9,890*	Jul 23, 1997
MAXIMUM PEAK STAGE			11.65*	Sep 8	18.68	Jul 23, 1997
INSTANTANEOUS LOW FLOW			23*	Aug 11	15*	Aug 10, 1997
ANNUAL RUNOFF (CFSM)	2.49		1.24		1.48	
ANNUAL RUNOFF (INCHES)	33.83		16.85		20.14	
10 PERCENT EXCEEDS	302		151		161	
50 PERCENT EXCEEDS	60		40		44	
90 PERCENT EXCEEDS	34		31		27	

* See REMARKS.



02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°12'13", long 80°50'13", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge at Medical Center Drive, 3.3 mi upstream from Briar Creek, and 1.3 mi south of city hall in Charlotte.

DRAINAGE AREA.--11.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year. Fragmentary records 1964-1966, in files of Geological Survey as "Little Sugar Creek at Brunswick Avenue at Charlotte".

REVISED RECORDS.--WDR NC-96-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 612.82 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred on Aug. 8-14, 2002. Minimum discharge for current water year also occurred June 12, 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.3	5.1	4.6	4.3	33	37	18	3.7	6.6	7.5	5.2
2	4.0	4.1	4.5	4.7	6.0	15	7.8	79	3.0	6.6	6.5	4.4
3	4.0	4.0	3.8	4.7	44	8.6	6.2	12	3.1	33	e5.3	4.1
4	4.0	3.9	9.7	4.9	5.4	6.7	5.9	5.9	8.0	6.5	e5.2	4.1
5	3.9	5.3	8.6	23	5.2	6.1	5.6	4.5	3.2	27	4.7	4.1
6	3.9	5.4	4.5	6.5	225	5.8	5.4	4.5	2.9	9.7	4.9	14
7	4.1	4.4	4.2	4.8	20	5.6	5.4	4.2	3.2	5.6	3.7	498
8	19	7.3	4.1	4.5	6.6	6.3	5.5	4.0	6.4	5.2	3.7	385
9	7.1	4.2	4.0	7.0	5.5	6.5	5.3	4.1	6.4	5.1	3.8	14
10	4.5	4.2	88	e3.9	5.1	6.6	5.1	4.4	3.2	5.0	3.8	8.3
11	61	4.4	9.6	4.3	4.7	6.0	11	4.0	2.7	11	6.8	6.8
12	5.2	4.6	4.8	4.5	55	6.1	31	20	2.5	7.7	280	e6.5
13	4.6	4.1	49	4.6	7.2	5.7	92	4.9	32	5.0	113	e6.2
14	4.5	4.2	89	4.6	12	5.6	9.2	4.0	126	5.0	134	6.0
15	4.3	4.3	7.8	4.5	26	7.9	6.7	3.9	12	4.6	12	5.3
16	4.2	4.4	5.7	4.1	9.1	9.6	6.1	e3.4	11	4.6	7.5	5.3
17	4.2	4.7	23	4.2	5.7	5.1	6.3	e3.6	3.8	246	6.1	193
18	4.1	4.7	6.0	12	5.2	8.9	5.4	18	3.5	121	5.5	11
19	4.1	33	5.6	4.8	5.0	7.4	5.8	6.9	3.2	6.8	8.7	6.8
20	4.1	5.2	4.7	4.1	4.8	5.5	5.4	3.8	3.0	5.5	5.1	6.0
21	4.1	4.2	4.7	4.2	4.8	8.3	5.3	3.6	155	7.9	5.2	5.6
22	4.0	4.1	5.0	4.2	4.5	4.4	5.1	3.3	9.9	4.6	5.4	5.5
23	4.1	3.9	4.8	4.4	4.9	4.2	5.0	3.7	92	4.2	4.7	5.2
24	3.9	5.2	5.2	4.4	4.8	4.2	4.6	4.4	21	3.9	4.4	5.1
25	3.8	4.2	4.7	6.6	4.4	4.2	4.8	3.3	186	3.8	4.4	5.1
26	5.1	4.1	4.5	e4.9	9.7	4.2	7.8	3.3	50	4.8	4.0	5.1
27	5.2	3.9	4.5	e9.5	36	4.1	6.3	3.7	8.8	159	4.0	207
28	32	6.3	4.7	e9.1	58	4.1	4.5	5.7	7.4	7.4	3.9	392
29	34	4.8	4.7	6.6	39	4.2	4.6	3.7	6.6	67	37	13
30	5.0	3.9	5.1	5.3	---	11	4.6	3.3	6.1	7.0	36	8.6
31	4.3	---	4.9	4.6	---	101	---	27	---	5.3	44	---
TOTAL	264.6	165.3	394.5	184.1	627.9	321.9	320.7	278.1	785.6	802.4	780.8	1,846.3
MEAN	8.54	5.51	12.7	5.94	21.7	10.4	10.7	8.97	26.2	25.9	25.2	61.5
MAX	61	33	89	23	225	101	92	79	186	246	280	498
MIN	3.8	3.9	3.8	3.9	4.3	4.1	4.5	3.3	2.5	3.8	3.7	4.1
CFSM	0.72	0.47	1.08	0.50	1.83	0.88	0.91	0.76	2.22	2.19	2.13	5.22
IN.	0.83	0.52	1.24	0.58	1.98	1.01	1.01	0.88	2.48	2.53	2.46	5.82

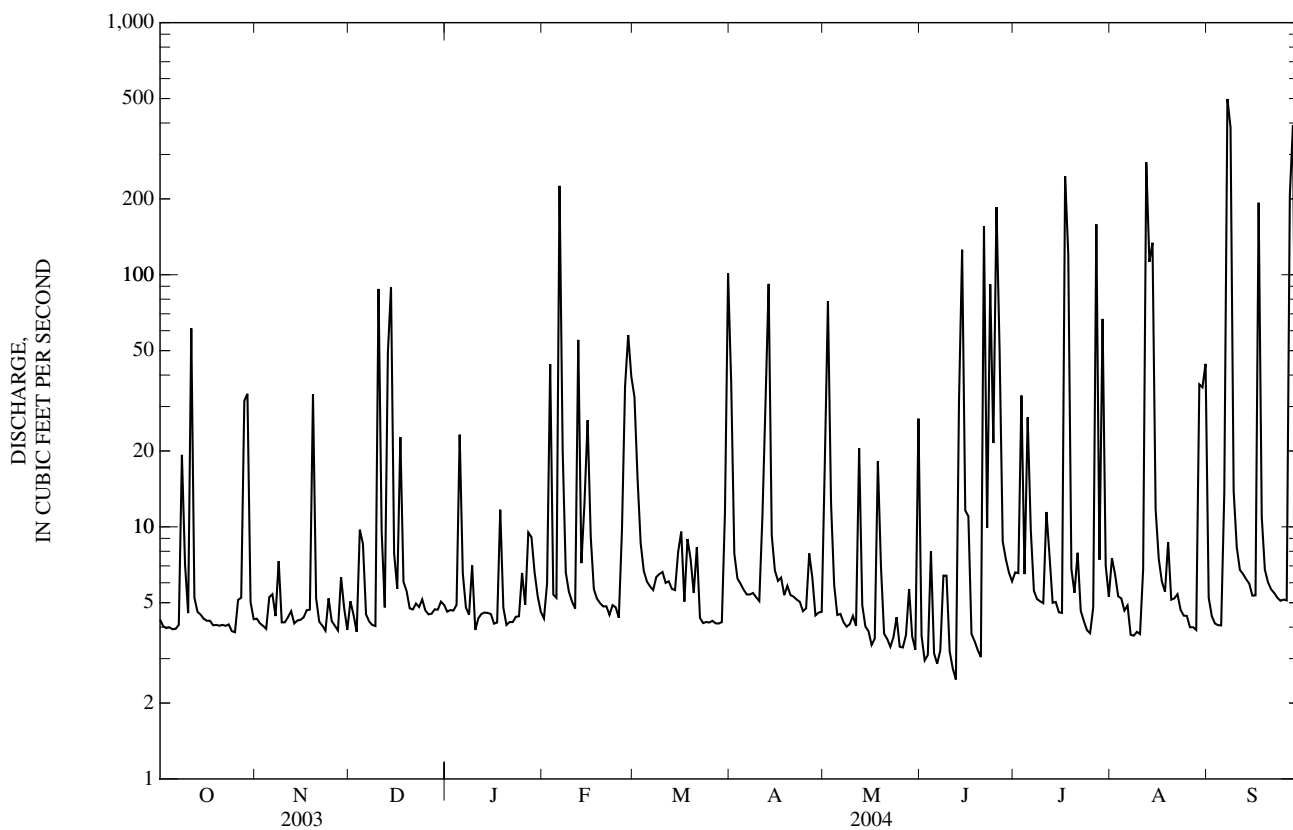
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

MEAN	15.2	12.3	13.4	21.6	22.6	22.1	22.0	17.5	18.7	24.2	19.1	20.9
MAX	28.9	30.3	35.0	48.5	36.9	54.8	57.3	70.8	57.3	81.8	50.0	61.5
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	3.88	3.85	6.02	5.94	6.73	8.45	4.67	4.37	3.38	9.61	4.65	8.52
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(1999)	(2002)	(1999)	(1997)	(2002)

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	11,767.8		6,772.2		19.1	
ANNUAL MEAN	32.2		18.5		37.0	
HIGHEST ANNUAL MEAN					10.3	2003
LOWEST ANNUAL MEAN					10.3	2002
HIGHEST DAILY MEAN	762	Jun 7	498	Sep 7	1,970	Jul 23, 1997
LOWEST DAILY MEAN	3.8	Oct 25	2.5	Jun 12	1.0	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	4.0	Oct 19	3.6	May 21	1.1	Aug 7, 2002
MAXIMUM PEAK FLOW			3,400	Jul 17	5,310	Jul 23, 1997
MAXIMUM PEAK STAGE			12.29	Jul 17	14.83	Jul 23, 1997
INSTANTANEOUS LOW FLOW			2.2*	Jun 11	1.0*	Aug 7, 2002
ANNUAL RUNOFF (CFSM)	2.73		1.57		1.62	
ANNUAL RUNOFF (INCHES)	37.10		21.35		22.00	
10 PERCENT EXCEEDS	76		33		36	
50 PERCENT EXCEEDS	9.1		5.2		5.5	
90 PERCENT EXCEEDS	4.3		3.9		2.7	

* See REMARKS.
e Estimated.



02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to September 2004.

pH: April 1999 to September 2002.

WATER TEMPERATURE: April 1999 to September 2004.

DISSOLVED OXYGEN: April 1999 to September 2002.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to September 2002.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Land Use and Environmental Services Agency to characterize water-quality conditions in Little Sugar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	7680, January 26, 2004	22, June 7, 2003
pH, standard units	10.6, March 16, 2000	5.9, April 23, 1999
WATER TEMPERATURE, °C	31.4, July 31, 1999	0.9, January 24, 2003
DISSOLVED OXYGEN, mg/L	≥ 20.0, September 3, 1999	2.2, August 18, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	184, May 20, 2000	24, September 5, 1999

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	7680, January 26	28, September 8
WATER TEMPERATURE, °C	29.9, August 1	1.8, February 27

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	294	274	283	279	245	266	267	250	263	270	262	266
2	304	282	291	281	259	274	260	215	230	270	263	266
3	290	283	287	290	263	282	272	229	250	266	260	263
4	292	281	287	296	276	284	556	270	348	288	255	264
5	305	276	287	310	290	297	389	242	266	264	111	218
6	300	280	294	306	256	275	262	248	255	216	141	183
7	300	277	292	303	277	285	286	222	265	259	178	220
8	292	97	221	330	186	262	320	249	282	262	228	256
9	217	126	179	267	208	261	320	261	283	2,400	252	1,060
10	271	163	245	275	251	266	283	81	181	---	---	---
11	165	59	107	284	237	270	206	101	164	480	392	427
12	236	164	208	293	282	286	259	206	235	401	341	370
13	271	236	257	299	256	281	274	53	240	349	308	326
14	286	269	276	298	288	292	302	56	165	316	295	305
15	298	279	285	308	289	294	252	200	224	295	279	287
16	291	278	285	291	270	285	342	252	296	279	269	274
17	292	262	280	289	258	283	413	167	239	319	268	276
18	283	272	278	292	277	286	256	198	227	379	244	292
19	286	247	278	290	120	190	270	140	252	255	248	252
20	284	266	278	234	163	203	275	267	270	264	252	258
21	290	276	284	267	234	250	275	267	270	310	259	267
22	321	290	298	286	265	273	268	253	262	287	258	266
23	304	270	294	283	277	279	273	240	263	269	241	258
24	296	285	292	280	234	267	289	256	275	257	229	249
25	302	287	294	314	235	279	274	268	271	2,840	248	1,060
26	306	261	286	280	273	276	272	262	268	---	---	---
27	303	267	277	280	272	276	270	262	267	---	---	---
28	278	92	218	283	222	261	270	247	261	---	---	---
29	176	62	118	288	260	267	261	247	254	1,840	991	1,210
30	243	176	212	263	251	259	285	252	263	1,240	786	979
31	269	241	255	---	---	---	271	253	259	786	578	674
MONTH	321	59	259	330	120	270	556	53	253	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	578	484	522	392	214	279	224	78	164	402	100	220
2	1,090	443	479	427	221	311	276	224	251	303	38	130
3	1,010	287	395	391	314	347	290	273	283	203	88	160
4	392	335	357	395	357	375	291	270	286	247	194	223
5	393	361	381	377	347	355	301	286	295	282	247	263
6	712	79	259	353	336	344	317	294	302	295	268	279
7	296	136	251	336	327	332	315	293	300	294	270	284
8	316	296	308	344	329	335	302	294	299	304	289	295
9	329	315	322	669	321	354	308	294	298	296	276	288
10	334	322	328	676	349	447	309	288	296	300	284	290
11	337	324	330	374	327	344	299	140	285	290	270	285
12	326	119	200	332	312	324	253	136	193	292	106	223
13	274	202	244	323	310	317	212	71	140	254	197	235
14	397	227	288	317	299	309	253	148	210	279	254	269
15	265	141	212	413	307	342	278	252	268	---	---	---
16	263	178	225	545	334	397	286	275	281	---	---	---
17	310	263	292	338	304	319	288	276	283	---	---	---
18	315	289	299	408	260	308	288	268	277	288	88	247
19	335	301	313	277	225	244	295	256	284	236	143	185
20	331	307	317	281	233	275	303	282	291	285	236	258
21	318	305	310	383	216	283	299	283	292	297	255	279
22	306	301	303	293	282	287	306	289	297	293	281	286
23	372	298	317	301	290	295	303	282	296	296	272	287
24	367	302	322	300	285	295	294	290	292	294	246	274
25	339	306	321	300	287	295	293	278	289	289	280	283
26	4,530	307	1,550	298	289	294	674	228	292	301	287	291
27	4,870	1,060	2,870	299	288	294	674	277	305	306	288	296
28	2,270	413	1,070	301	286	294	301	278	288	315	194	276
29	561	232	376	298	288	294	311	291	296	332	216	281
30	---	---	---	469	183	280	300	291	295	353	282	307
31	---	---	---	269	72	142	---	---	---	297	73	186
MONTH	4,870	79	475	676	72	313	674	71	274	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	235	164	209	321	297	308	320	80	263	251	200	228
2	269	235	258	297	268	278	283	209	233	291	248	273
3	278	241	267	303	57	230	---	---	---	299	291	296
4	304	176	233	286	210	248	---	---	---	320	298	303
5	258	232	247	274	94	221	316	282	298	322	301	312
6	268	254	262	245	127	198	317	292	297	313	95	257
7	281	243	271	288	245	270	307	288	299	240	37	124
8	281	126	254	305	287	294	304	290	297	232	28	137
9	310	139	203	308	295	301	310	293	302	284	229	263
10	291	263	272	308	270	301	315	295	306	318	284	303
11	288	273	283	292	121	243	320	226	301	325	315	319
12	293	269	285	290	178	237	280	29	121	---	---	---
13	292	81	186	277	238	255	167	44	114	---	---	---
14	200	60	136	291	276	282	177	42	110	323	299	314
15	217	83	161	300	291	296	261	177	222	320	312	316
16	220	142	176	308	297	302	290	241	270	325	310	315
17	262	193	228	310	32	274	303	281	293	326	40	157
18	296	262	272	238	44	170	310	297	301	261	151	214
19	479	296	390	277	237	253	315	86	272	290	261	277
20	370	282	319	299	274	285	303	234	290	305	290	296
21	299	51	165	293	185	257	308	232	294	307	301	304
22	227	140	192	301	244	287	299	275	288	309	289	305
23	252	47	179	328	277	301	305	265	293	317	289	307
24	219	103	159	309	296	303	312	278	298	317	304	310
25	200	38	140	314	302	308	312	259	295	316	304	310
26	205	61	143	309	266	299	314	290	302	315	290	305
27	271	205	244	267	48	114	319	295	306	310	31	219
28	318	271	291	234	126	208	321	292	306	197	32	110
29	323	286	305	259	55	157	317	85	255	275	197	243
30	315	300	305	244	153	206	187	58	131	---	---	---
31	---	---	---	316	244	263	200	64	138	---	---	---
MONTH	479	38	234	328	32	256	---	---	---	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	16.4	17.8	17.9	15.0	16.4	11.2	8.5	9.8	9.4	6.8	8.1
2	17.9	16.0	17.0	18.4	15.5	16.9	10.2	8.3	9.3	10.2	8.6	9.3
3	16.7	13.8	15.4	18.6	16.0	17.3	9.3	7.6	8.2	12.9	9.0	10.7
4	18.5	14.7	16.5	19.2	16.8	18.0	8.5	7.0	7.4	14.7	12.5	13.5
5	19.4	16.6	18.0	20.2	18.5	19.3	8.1	6.7	7.4	17.3	14.2	15.3
6	19.5	17.7	18.6	21.2	19.6	20.3	8.8	7.6	8.2	15.5	8.6	11.8
7	20.1	18.5	19.2	20.6	19.4	20.2	8.7	6.5	7.6	8.6	5.9	7.1
8	20.1	18.3	19.0	19.4	15.7	17.0	8.6	6.3	7.5	7.1	5.6	6.4
9	20.0	18.9	19.4	15.7	12.9	14.2	9.6	6.7	8.2	7.2	6.1	6.8
10	19.7	18.6	19.3	13.7	10.9	12.3	12.2	8.7	10.4	---	---	---
11	19.1	17.9	18.6	15.6	11.9	13.4	11.1	9.0	10.0	5.7	3.8	4.8
12	21.1	18.4	19.6	17.3	13.9	15.5	9.3	7.5	8.5	8.2	4.7	6.3
13	21.3	18.8	20.0	16.9	12.4	14.8	8.4	4.6	7.5	9.2	6.5	7.8
14	20.4	18.8	19.9	12.4	10.4	11.5	6.4	4.4	5.5	8.8	6.8	7.8
15	18.8	16.4	17.5	12.4	11.3	11.8	8.2	5.8	7.0	9.4	7.7	8.4
16	17.8	15.1	16.5	14.9	11.6	13.1	9.0	6.8	7.9	8.5	6.4	7.5
17	17.9	15.1	16.5	16.3	14.6	15.4	10.2	7.9	9.1	8.3	6.4	7.4
18	17.6	15.9	16.8	16.8	15.1	15.9	8.6	6.7	7.7	9.3	8.2	9.0
19	17.9	14.8	16.4	18.0	15.6	17.0	10.1	7.0	7.8	9.0	7.0	8.1
20	18.5	15.5	17.0	15.6	13.5	14.5	7.0	5.3	6.0	7.0	4.7	5.7
21	18.9	16.4	17.7	15.0	12.3	13.7	6.6	4.3	5.4	6.7	4.4	5.5
22	18.3	16.5	17.3	15.0	12.4	13.8	8.1	5.3	6.5	7.7	4.6	6.0
23	16.5	14.1	15.2	15.0	12.5	13.8	9.8	6.4	8.0	7.3	5.3	6.4
24	15.8	13.8	14.9	16.0	13.4	14.4	11.6	9.5	10.6	8.8	5.5	6.9
25	16.4	14.0	15.2	13.8	10.5	11.5	9.5	7.1	8.1	8.3	2.8	5.8
26	17.3	15.5	16.3	12.0	9.5	10.8	7.8	5.7	6.8	---	---	---
27	18.3	17.0	17.7	13.3	10.9	12.0	8.2	5.5	6.8	---	---	---
28	17.6	14.4	16.0	15.7	12.3	14.1	8.6	6.0	7.3	---	---	---
29	15.9	13.4	14.6	12.3	8.9	9.9	9.8	6.8	8.2	7.0	3.3	5.0
30	17.0	13.9	15.4	10.3	7.6	9.0	11.0	9.4	10.3	7.6	5.1	6.3
31	17.5	14.8	16.1	---	---	---	9.4	7.5	8.5	6.5	4.4	5.6
MONTH	21.3	13.4	17.3	21.2	7.6	14.6	12.2	4.3	8.0	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	4.1	5.3	9.8	6.0	7.9	13.7	10.0	11.7	22.3	19.1	20.2
2	5.8	4.2	5.0	12.1	9.3	10.6	13.6	11.2	12.2	22.0	19.3	20.7
3	6.3	4.0	5.2	14.2	11.3	12.7	15.4	10.5	12.8	20.7	16.6	18.6
4	7.6	4.9	6.2	16.6	13.2	14.7	15.6	12.1	13.6	18.8	14.4	16.5
5	6.6	5.8	6.1	17.1	14.7	15.8	14.8	10.6	12.5	20.6	15.5	17.8
6	6.2	4.9	5.4	17.1	15.7	16.3	15.7	11.0	13.2	22.5	17.5	19.8
7	8.1	5.8	7.0	16.9	13.5	15.2	17.3	12.6	14.8	23.8	19.0	21.2
8	7.2	4.9	6.1	13.6	11.1	12.3	16.7	14.6	15.6	24.2	19.8	21.9
9	6.5	5.5	6.1	11.2	9.7	10.3	18.8	14.2	16.3	24.7	20.9	22.7
10	7.9	5.8	6.8	11.0	8.9	9.8	18.7	14.9	16.6	24.3	20.3	22.2
11	8.8	7.2	8.0	12.1	7.9	10	17.7	14.7	16.5	23.6	20.1	21.9
12	8.3	5.2	6.5	13.7	9.8	11.5	14.8	12.3	13.3	23.9	20.8	22.3
13	8.9	5.5	7.1	12.9	9.4	11.2	15.9	12.2	13.9	23.3	20.9	22.0
14	9.6	8.4	8.8	14.2	10.4	12.1	14.5	12.2	13.0	23.6	20.5	22.0
15	9.0	7.3	8.5	14.4	13.2	13.8	16.0	10.8	13.3	---	---	---
16	7.9	5.8	6.8	15.9	13.8	14.7	17.6	13.4	15.3	---	---	---
17	6.3	5.3	5.8	14.9	12.7	13.8	19.5	14.5	16.8	---	---	---
18	8.5	5.0	6.6	12.7	11.4	12.0	20.7	16.2	18.3	24.3	21.0	22.6
19	9.8	6.0	7.8	15.2	10.9	12.9	21.5	17.1	19.1	24.3	21.6	22.9
20	11.3	7.7	9.4	15.1	11.7	13.3	21.5	17.7	19.5	25.5	21.6	23.4
21	13.3	10.6	11.8	16.4	12.0	14.7	20.8	17.9	19.2	26.1	22.2	24.1
22	11.8	9.2	10.6	12.6	9.8	11.1	21.0	17.4	19.1	26.8	22.8	24.8
23	10.2	8.7	9.4	12.3	8.1	10.1	22.5	17.9	20.0	26.1	23.0	24.4
24	11.0	9.2	10.0	14.0	9.2	11.4	23.1	18.9	21.0	26.4	22.7	24.4
25	10.4	8.8	9.6	16.4	11.3	13.6	22.7	19.9	21.3	26.7	23.0	24.8
26	8.8	1.9	5.8	17.9	13.5	15.6	21.0	18.1	19.4	25.5	23.4	24.6
27	4.1	1.8	3.2	18.9	14.9	16.8	19.2	16.3	17.5	25.7	22.0	23.8
28	6.5	2.6	4.4	19.4	16.3	17.7	18.9	14.4	16.6	25.9	22.4	23.9
29	8.7	3.9	6.2	17.8	14.6	16.2	20.1	15.2	17.6	25.6	22.4	24.0
30	---	---	---	16.1	12.5	13.7	20.5	16.9	18.7	25.1	23.0	24.1
31	---	---	---	13.5	10.2	11.9	---	---	---	24.5	22.5	23.5
MONTH	13.3	1.8	7.1	19.4	6.0	13.0	23.1	10.0	16.3	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	21.6	23.0	25.4	22.9	24.1	29.9	25.0	26.6	26.0	23.8	24.9
2	25.0	20.8	22.9	24.8	23.4	24.1	27.7	25.6	26.6	25.1	23.6	24.4
3	25.2	21.2	23.4	26.0	23.2	24.5	---	---	---	24.5	22.2	23.5
4	24.6	22.3	23.5	27.2	23.7	25.2	---	---	---	24.5	21.9	23.3
5	24.0	20.6	22.4	28.3	24.3	26.0	27.0	25.0	25.9	24.8	22.5	23.7
6	23.2	21.2	22.1	28.1	24.0	25.9	25.1	22.8	23.8	26.5	22.9	24.3
7	24.2	21.4	22.8	28.1	24.8	26.3	23.8	20.5	22.2	24.6	22.8	23.7
8	24.2	22.2	23.1	27.9	24.6	26.3	23.6	21.2	22.5	23.8	22.8	23.3
9	24.6	22.0	23.2	28.1	24.8	26.4	24.3	21.2	22.9	24.6	22.6	23.5
10	26.2	22.1	24.1	28.5	25.0	26.8	24.9	22.1	23.6	24.2	22.0	23.1
11	27.1	23.5	25.4	28.3	25.1	26.5	25.6	22.8	24.2	24.7	22.1	23.3
12	26.5	24.1	25.3	27.8	25.2	26.3	25.1	22.4	23.6	---	---	---
13	24.7	22.1	22.9	27.9	24.7	26.2	24.9	22.3	23.3	---	---	---
14	26.6	22.2	23.5	28.2	25.1	26.7	23.6	19.8	21.3	23.6	21.9	22.6
15	25.5	23.2	24.3	27.0	24.2	25.5	21.7	20.9	21.3	22.7	21.3	22.0
16	27.0	23.7	25.2	25.7	22.8	24.4	24.5	21.1	22.6	23.1	21.6	22.4
17	27.8	24.4	26.0	25.6	22.9	24.2	25.5	22.4	23.8	23.5	22.1	23.0
18	27.9	24.7	26.3	24.9	22.8	23.7	26.0	23.2	24.4	22.7	20.7	21.6
19	28.0	24.8	26.2	26.3	23.0	24.5	27.6	23.4	24.8	21.1	18.9	20.0
20	26.1	23.4	24.9	26.6	23.5	24.9	26.5	23.7	25.1	20.2	17.5	18.9
21	24.9	21.7	23.2	28.7	23.4	25.8	26.3	23.9	25.0	20.6	17.5	19.0
22	26.0	22.6	24.0	27.3	24.3	25.9	24.5	23.6	24.0	21.7	18.1	19.9
23	27.5	23.5	25.0	27.4	25.0	26.2	25.4	22.7	24.0	22.8	19.7	21.3
24	25.4	23.8	24.6	27.2	24.8	26.1	26.0	23.2	24.6	22.5	20.3	21.5
25	26.2	23.1	24.2	26.4	24.1	25.4	25.8	22.9	24.3	22.0	19.5	20.9
26	24.8	22.1	23.5	26.0	24.4	25.3	25.0	22.8	24.0	22.0	19.5	20.9
27	24.6	22.6	23.6	26.4	23.8	24.9	25.9	22.8	24.4	22.5	20.6	21.3
28	24.4	22.6	23.4	26.9	24.2	25.3	26.5	23.8	25.2	22.8	21.3	22.0
29	25.7	22.3	23.8	26.1	24.3	25.1	25.6	23.6	24.1	21.9	20.4	21.3
30	24.6	23.0	23.8	27.3	24.2	25.6	26.6	23.2	24.7	---	---	---
31	---	---	---	28.0	24.6	26.1	25.1	23.9	24.4	---	---	---
MONTH	28.0	20.6	24.0	28.7	22.8	25.5	---	---	---	---	---	---

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'10", long 80°46'16", Mecklenburg County, Hydrologic Unit 03050103, 400 ft upstream from bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1998 to current year.

REVISED RECORDS.--WDR NC-2003-1B: 1998-2002.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 672.00 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 800 ft³/s by culvert computation of peak flow. No flow occurs most years. Minimum discharge for current water year also occurred July 17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	0.89	1.1	1.8	1.3	14	8.3	5.0	0.71	2.2	1.1	0.61
2	1.4	0.77	1.1	1.4	1.4	7.7	1.6	13	0.44	0.88	1.6	0.50
3	1.2	e3.4	1.1	1.4	11	3.5	1.2	3.2	0.44	0.85	1.8	0.50
4	1.1	1.1	2.4	1.6	1.8	2.7	0.99	1.4	1.4	0.95	1.6	0.72
5	0.94	1.0	2.8	5.3	1.5	2.4	0.84	1.1	0.63	3.9	2.6	0.78
6	0.73	1.2	1.5	1.9	55	2.2	0.76	1.1	0.70	1.3	1.1	1.6
7	1.0	1.1	1.2	1.1	8.0	2.0	0.77	1.1	0.69	0.52	1.1	157
8	4.1	2.4	1.4	1.1	2.7	2.0	0.78	1.2	0.94	0.53	1.1	110
9	1.3	1.1	1.6	1.9	2.4	2.0	0.70	1.2	5.5	0.40	0.98	5.5
10	0.80	1.1	18	1.1	2.0	2.3	0.69	1.2	1.3	0.67	0.56	3.7
11	14	1.3	3.1	1.1	1.6	1.9	0.64	1.2	0.45	2.2	1.3	3.0
12	0.75	1.4	1.2	1.1	13	2.0	3.7	1.6	0.50	1.8	89	2.8
13	0.61	1.3	8.0	1.2	2.7	1.8	12	1.2	8.0	0.49	19	3.0
14	0.87	1.3	20	1.3	3.9	1.9	2.0	1.1	20	0.34	22	3.5
15	1.0	1.3	2.4	1.4	6.0	2.6	1.0	1.1	3.7	0.58	2.9	3.8
16	1.1	1.2	1.4	1.3	3.2	4.0	0.96	0.99	2.4	0.60	1.4	3.8
17	0.84	1.3	5.9	1.3	2.0	1.9	0.95	0.94	0.83	52	1.2	44
18	0.67	1.1	1.6	3.4	1.7	3.2	0.92	2.3	0.88	68	1.3	2.8
19	0.69	7.0	1.3	1.2	1.7	2.0	0.95	1.2	1.1	0.98	2.0	1.5
20	0.56	0.77	1.2	1.1	1.7	1.4	1.1	0.53	1.2	0.50	2.4	1.4
21	0.51	0.50	1.1	1.1	1.6	2.4	1.1	0.47	11	0.59	2.4	1.4
22	0.31	0.64	1.3	1.2	1.3	1.3	0.96	0.44	1.5	1.0	1.9	1.5
23	0.31	0.79	1.4	1.3	1.6	1.0	0.94	0.42	9.2	1.7	1.7	1.7
24	0.46	1.7	1.7	1.3	1.6	1.1	0.91	0.42	4.5	1.0	1.5	1.9
25	0.56	1.6	1.4	2.1	1.4	1.1	0.76	0.40	16	0.21	1.2	2.1
26	1.5	1.3	1.3	1.4	2.9	1.1	1.3	0.41	7.3	0.34	0.91	2.2
27	1.1	1.4	1.4	2.8	10	1.1	0.82	0.48	0.93	46	0.77	94
28	7.2	2.1	1.4	2.8	14	0.94	0.53	0.66	0.92	2.0	0.60	271
29	8.0	1.5	1.7	1.9	12	0.77	0.48	0.75	0.98	41	8.5	4.2
30	0.56	1.3	1.7	1.7	---	2.3	0.49	0.87	1.6	1.4	17	2.0
31	0.66	---	1.7	1.4	---	13	---	5.8	---	0.68	10	---
TOTAL	56.43	44.86	94.4	52.0	171.0	89.61	49.14	52.78	105.74	235.61	202.52	732.51
MEAN	1.82	1.50	3.05	1.68	5.90	2.89	1.64	1.70	3.52	7.60	6.53	24.4
MAX	14	7.0	20	5.3	55	14	12	13	20	68	89	271
MIN	0.31	0.50	1.1	1.1	1.3	0.77	0.48	0.40	0.44	0.21	0.56	0.50
CFSM	0.35	0.29	0.59	0.32	1.13	0.56	0.32	0.33	0.68	1.46	1.26	4.70
IN.	0.40	0.32	0.68	0.37	1.22	0.64	0.35	0.38	0.76	1.69	1.45	5.24

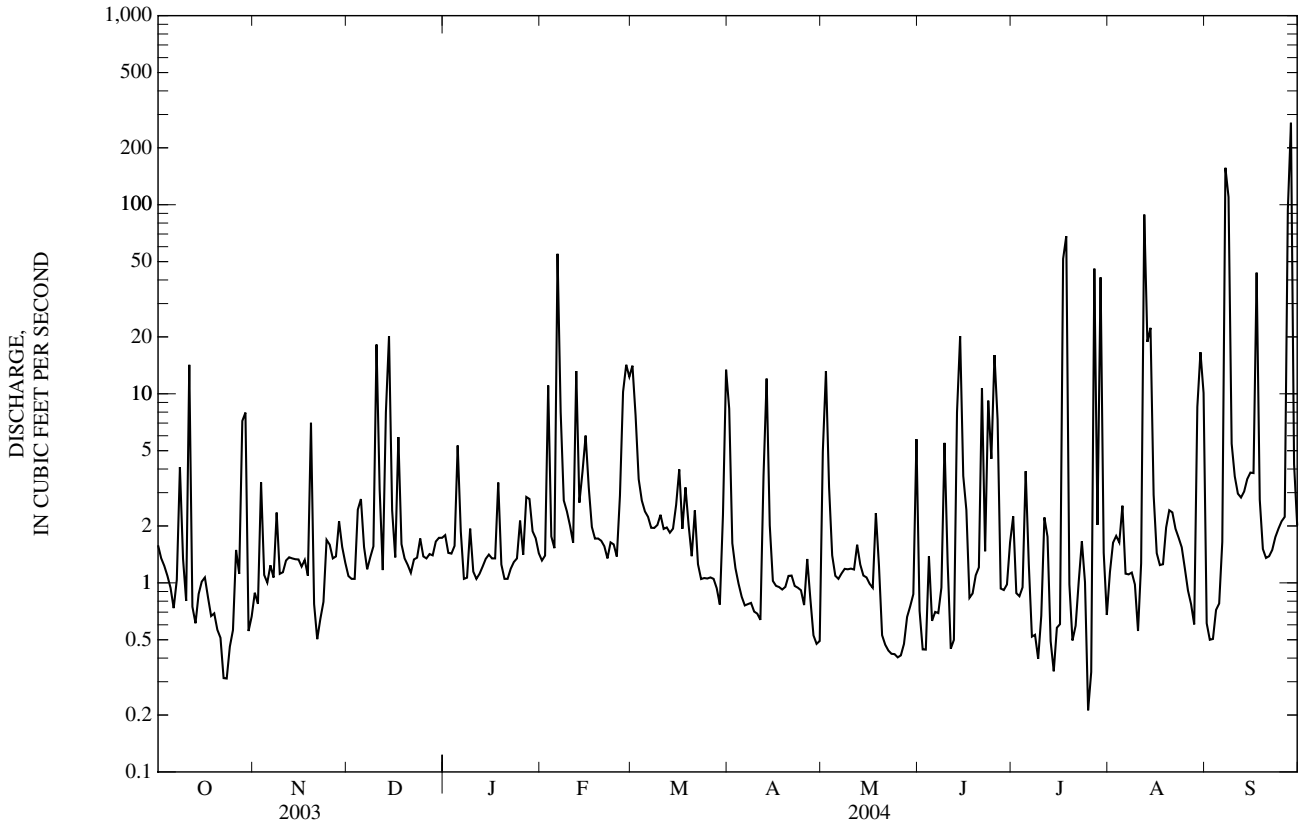
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	2.96	2.33	4.02	5.38	5.18	7.96	8.37	6.52	5.75	4.64	3.89	7.87
MAX	7.12	5.45	10.6	12.0	6.97	21.6	22.2	30.3	25.3	11.3	6.53	24.4
(WY)	(2000)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)
MIN	0.41	0.44	1.08	1.68	1.78	2.78	1.36	1.70	0.33	1.36	0.29	1.23
(WY)	(2001)	(2002)	(2002)	(2004)	(2002)	(1999)	(2002)	(2004)	(2002)	(2002)	(2001)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1998 - 2004	
ANNUAL TOTAL	4,126.49		1,886.60		5.42	
ANNUAL MEAN	11.3		5.15		1.96	
HIGHEST ANNUAL MEAN					12.7	2003
LOWEST ANNUAL MEAN					1.96	2002
HIGHEST DAILY MEAN	386	May 22	271	Sep 28	386	May 22, 2003
LOWEST DAILY MEAN	0.31	Oct 22	0.21	Jul 25	0.00	Aug 17, 1999
ANNUAL SEVEN-DAY MINIMUM	0.49	Oct 19	0.43	May 21	0.00	Aug 4, 2002
MAXIMUM PEAK FLOW			1,440*	Sep 28	2,500*	Jun 7, 2003
MAXIMUM PEAK STAGE			6.04	Sep 28	7.44	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.10*	Jul 15	0.00*	Aug 18, 1999
ANNUAL RUNOFF (CFSM)	2.17		0.991		1.04	
ANNUAL RUNOFF (INCHES)	29.52		13.50		14.17	
10 PERCENT EXCEEDS	15		8.0		9.2	
50 PERCENT EXCEEDS	2.7		1.3		1.5	
90 PERCENT EXCEEDS	1.1		0.60		0.14	

* See REMARKS.

e Estimated.



0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to September 2004.

pH: April 1999 to September 2002.

WATER TEMPERATURE: April 1999 to September 2004.

DISSOLVED OXYGEN: April 1999 to September 2002.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to September 2002.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Land Use and Environmental Services Agency to characterize water-quality conditions in Briar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	4550, January 27, 2004	15, August 2, 2002
pH, standard units	9.3, August 8, 1999	5.7, April 27, 1999, August 2, 2002
WATER TEMPERATURE, °C	35.2, July 21, 2002	0.0, January 25, 2003
DISSOLVED OXYGEN, mg/L	17.3, February 23, 2002	0.1, November 15, 2001
DISSOLVED OXYGEN, PERCENT SATURATION,%	200, April 25, 1999	0, November 15, 2001

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	4550, January 27	30, September 27
WATER TEMPERATURE, °C	32.1, July 9, 10	0.2, January 26

0214643860 BRIAR CREEK BELOW EDWARDS BRANCH NEAR CHARLOTTE, NC

LOCATION.--Lat 35°12'22", long 80°48'21", Mecklenburg County, Hydrologic Unit 03050103, mounted to Doral Apartments leasing office on left bank, 900 ft below confluence of Briar Creek and Edwards Branch, 2.2 mi southeast of city hall in Charlotte, NC.

DRAINAGE AREA.--14.2 mi².

PERIOD OF RECORD.--August 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 629.52 ft, above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good.

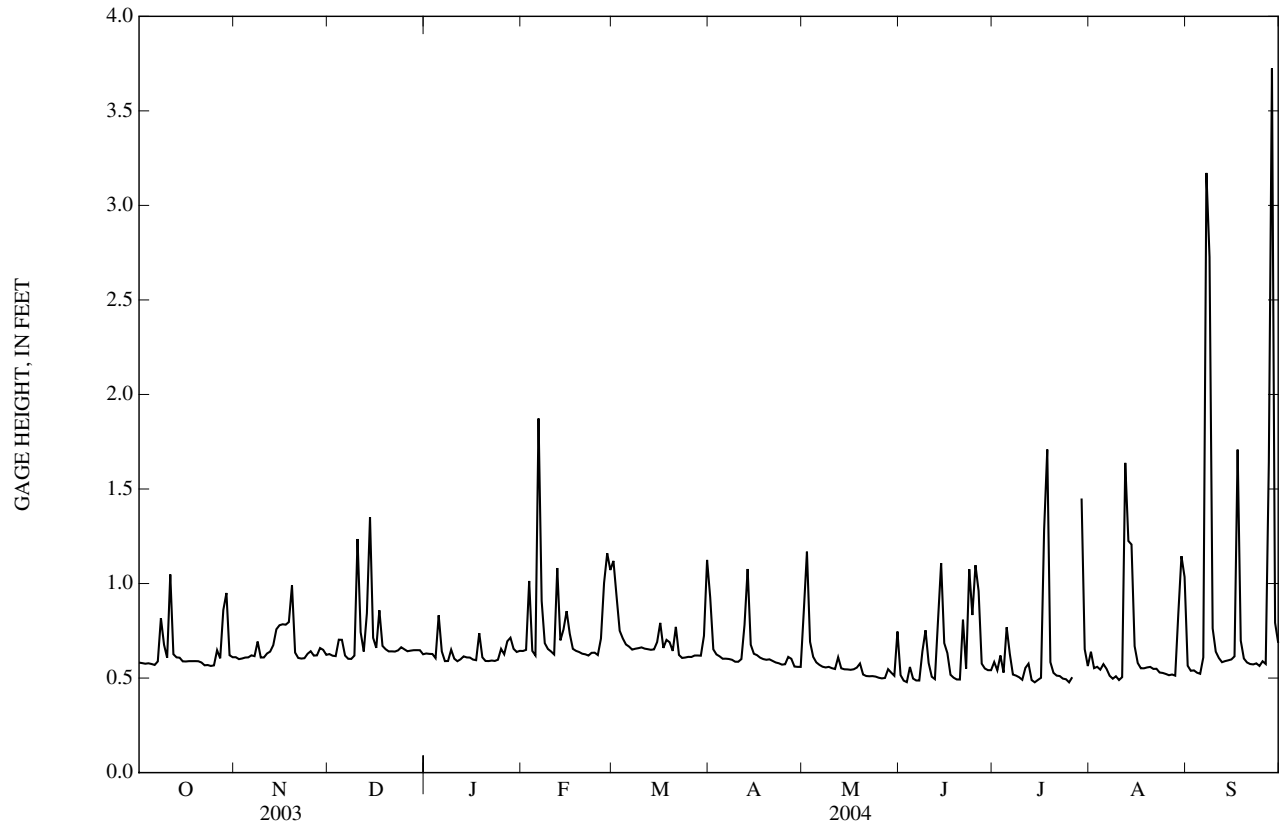
EXTREMES FOR PERIOD OF RECORD.--Maximum 11.08, July 17, 2004; minimum 0.47, June 2-4, July 14, 25, 26, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum 11.08, July 17; minimum 0.47, June 2-4, July 14, 25, 26.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.58	0.61	0.63	0.63	0.64	1.12	0.93	0.86	0.52	0.58	0.64	0.57
2	0.58	0.60	0.62	0.63	0.65	0.93	0.65	1.17	0.49	0.54	0.55	0.54
3	0.58	0.60	0.62	0.63	1.01	0.75	0.63	0.69	0.48	0.62	0.56	0.54
4	0.58	0.61	0.70	0.61	0.64	0.71	0.62	0.61	0.56	0.53	0.54	0.53
5	0.57	0.61	0.70	0.83	0.62	0.68	0.60	0.58	0.50	0.77	0.57	0.52
6	0.57	0.62	0.62	0.64	1.87	0.67	0.60	0.57	0.49	0.63	0.55	0.61
7	0.59	0.62	0.60	0.59	0.91	0.65	0.60	0.56	0.49	0.52	0.51	3.17
8	0.82	0.69	0.60	0.59	0.68	0.66	0.60	0.56	0.64	0.51	0.50	2.73
9	0.68	0.61	0.62	0.65	0.65	0.66	0.59	0.56	0.75	0.50	0.51	0.76
10	0.61	0.61	1.24	0.60	0.64	0.66	0.59	0.55	0.58	0.49	0.49	0.64
11	1.05	0.63	0.74	0.59	0.62	0.66	0.60	0.55	0.51	0.55	0.50	0.61
12	0.63	0.64	0.64	0.60	1.08	0.65	0.78	0.61	0.49	0.58	1.64	0.58
13	0.61	0.67	0.84	0.61	0.70	0.65	1.08	0.55	0.80	0.49	1.23	0.59
14	0.61	0.76	1.35	0.61	0.76	0.65	0.68	0.55	1.11	0.48	1.21	0.59
15	0.59	0.78	0.71	0.61	0.85	0.69	0.63	0.55	0.68	0.49	0.67	0.60
16	0.59	0.78	0.66	0.60	0.73	0.79	0.62	0.54	0.63	0.50	0.58	0.61
17	0.59	0.78	0.86	0.59	0.65	0.66	0.61	0.55	0.52	1.28	0.55	1.71
18	0.59	0.80	0.67	0.74	0.64	0.70	0.60	0.56	0.50	1.71	0.55	0.70
19	0.59	0.99	0.65	0.61	0.64	0.69	0.60	0.58	0.49	0.58	0.56	0.60
20	0.59	0.63	0.64	0.59	0.63	0.64	0.60	0.52	0.49	0.53	0.56	0.58
21	0.58	0.61	0.64	0.59	0.63	0.77	0.59	0.51	0.81	0.51	0.55	0.57
22	0.57	0.60	0.64	0.59	0.62	0.62	0.58	0.51	0.55	0.51	0.55	0.57
23	0.57	0.61	0.65	0.59	0.63	0.61	0.58	0.51	1.08	0.50	0.53	0.58
24	0.56	0.63	0.66	0.60	0.63	0.61	0.57	0.51	0.83	0.49	0.53	0.56
25	0.57	0.64	0.65	0.65	0.62	0.61	0.57	0.50	1.10	0.48	0.52	0.59
26	0.65	0.62	0.64	0.63	0.71	0.61	0.61	0.50	0.96	0.50	0.52	0.57
27	0.60	0.62	0.64	0.69	1.00	0.62	0.60	0.50	0.58	---	0.52	1.64
28	0.86	0.66	0.65	0.71	1.16	0.62	0.56	0.55	0.55	---	0.51	3.72
29	0.95	0.65	0.65	0.65	1.07	0.62	0.56	0.53	0.54	1.45	0.84	0.79
30	0.62	0.62	0.65	0.64	---	0.72	0.56	0.51	0.54	0.65	1.14	0.69
31	0.61	---	0.63	0.64	---	1.12	---	0.75	---	0.56	1.03	---
MEAN	0.64	0.66	0.70	0.63	0.78	0.70	0.63	0.59	0.64	---	0.67	0.94
MAX	1.05	0.99	1.35	0.83	1.87	1.12	1.08	1.17	1.11	---	1.64	3.72
MIN	0.56	0.60	0.60	0.59	0.62	0.61	0.56	0.50	0.48	---	0.49	0.52

0214643860 BRIAR CREEK BELOW EDWARDS BRANCH NEAR CHARLOTTE, NC—Continued



0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC

LOCATION.--Lat 35°10'31", long 80°49'51", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of third footbridge 900 feet upstream of Colony Road at Charlotte. Located within Myers Park Country Club.

DRAINAGE AREA.--19.0 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 598.02 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record 15.41 ft, from floodmarks. Maximum discharge for period of record from slope-area measurement of peak flow. Minimum discharge for current water year also occurred June 20, 21.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 27, 1995 reached a stage of 15.6 ft, present site and datum, from floodmarks; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.7	5.3	5.4	6.7	70	47	25	3.1	5.1	29	6.4
2	4.2	4.5	5.5	5.8	6.6	41	9.2	80	2.2	3.5	6.5	4.6
3	4.1	4.5	5.3	5.5	55	17	7.5	13	2.1	8.7	5.0	4.2
4	4.2	4.4	9.8	5.0	8.2	13	6.9	5.7	4.6	4.3	4.0	4.0
5	4.1	e4.5	12	24	6.9	11	6.4	4.6	2.3	26	3.9	3.8
6	4.0	e4.6	5.7	9.0	250	10	6.2	4.2	2.1	14	4.7	7.7
7	4.3	4.8	5.0	4.8	41	8.9	6.2	3.9	2.2	3.5	3.3	558
8	29	8.5	5.5	4.8	12	8.5	6.1	3.7	9.4	3.2	3.2	543
9	11	4.7	6.8	7.8	9.8	8.8	5.8	3.7	29	3.0	3.8	21
10	5.2	4.4	99	5.6	8.8	8.5	5.7	3.7	7.3	3.0	3.3	9.9
11	67	4.8	17	4.8	7.9	7.7	6.2	3.5	2.4	5.9	4.0	7.3
12	6.5	4.7	7.0	5.0	70	7.6	20	7.3	2.1	5.7	152	6.1
13	5.2	5.6	31	5.7	13	7.1	73	4.1	27	3.0	132	6.0
14	5.0	7.0	123	5.5	18	7.1	11	3.5	72	2.7	92	5.9
15	4.5	6.7	13	5.5	27	8.3	7.5	3.5	15	2.4	13	5.6
16	5.3	5.5	8.4	5.3	16	17	6.9	3.6	8.1	2.6	6.9	6.0
17	4.3	4.7	28	5.4	e9.2	8.1	6.4	3.9	3.0	112	5.3	226
18	4.4	5.1	8.7	14	8.4	8.6	6.1	3.7	2.5	376	4.8	16
19	4.3	37	7.3	5.9	8.0	12	5.8	6.1	2.2	7.7	5.0	7.8
20	4.3	6.9	6.6	5.6	7.5	7.1	5.8	3.7	2.0	5.0	4.7	6.6
21	4.3	5.1	e6.4	6.1	7.2	20	5.3	3.5	30	4.3	6.2	5.8
22	4.1	5.1	e6.5	5.5	6.6	8.0	5.0	3.3	4.4	4.0	5.3	5.7
23	3.9	4.9	6.5	5.1	7.0	6.4	4.8	3.1	123	3.8	4.3	5.6
24	3.8	5.5	7.2	5.2	7.4	6.7	4.8	2.9	43	3.7	4.0	4.9
25	3.8	6.4	6.6	8.1	6.6	6.9	4.8	2.7	83	3.4	3.8	5.4
26	6.7	5.3	6.1	7.0	13	6.5	6.2	2.6	51	4.1	3.6	4.8
27	5.2	5.1	6.1	10	52	6.2	6.9	2.5	6.0	244	3.4	152
28	34	6.5	6.2	12	73	6.2	4.6	4.0	4.2	23	3.3	836
29	47	6.5	6.1	8.5	61	5.9	4.5	3.0	3.7	172	4.2	22
30	6.8	5.2	6.2	7.1	---	12	4.5	2.9	3.5	12	95	12
31	5.1	---	5.4	6.6	---	68	---	21	---	5.6	104	---
TOTAL	310.0	193.2	479.2	221.6	823.8	440.1	307.1	241.9	552.4	1,077.2	761.3	2,510.1
MEAN	10.0	6.44	15.5	7.15	28.4	14.2	10.2	7.80	18.4	34.7	24.6	83.7
MAX	67	37	123	24	250	70	73	80	123	376	152	836
MIN	3.8	4.4	5.0	4.8	6.6	5.9	4.5	2.5	2.0	2.4	3.2	3.8
CFSM	0.53	0.34	0.81	0.38	1.50	0.75	0.54	0.41	0.97	1.83	1.29	4.40
IN.	0.61	0.38	0.94	0.43	1.61	0.86	0.60	0.47	1.08	2.11	1.49	4.91

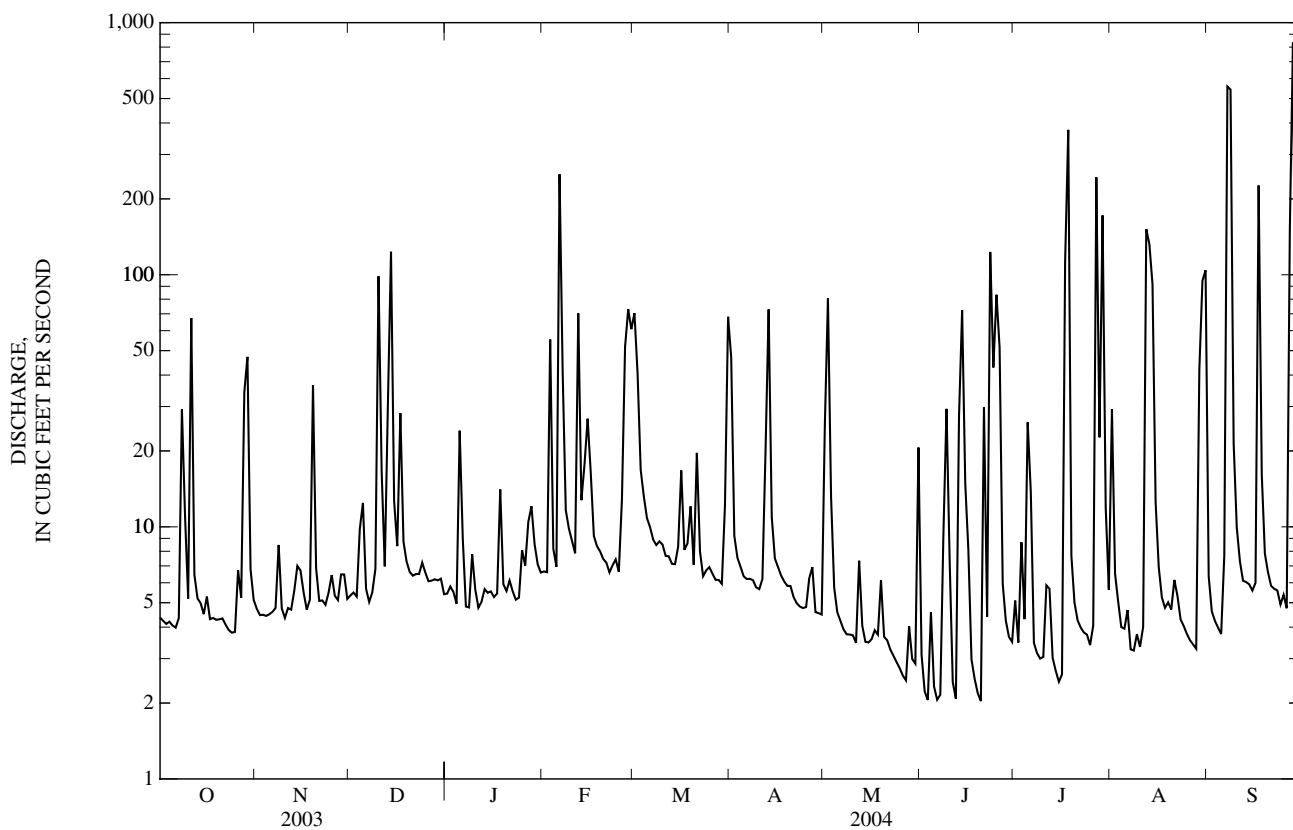
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	15.2	12.3	17.7	27.4	27.3	31.4	34.8	22.8	25.1	30.7	16.1	24.3
MAX	31.0	27.7	45.8	65.2	46.9	78.2	94.2	112	118	114	34.4	83.7
(WY)	(2000)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(2004)
MIN	2.29	3.49	5.83	7.15	8.05	11.5	5.93	7.80	2.99	8.57	1.80	7.49
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2004)	(2002)	(1996)	(2001)	(2002)

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	17,322.9		7,917.9		24.1	
ANNUAL MEAN	47.5		21.6		53.3	
HIGHEST ANNUAL MEAN					10.8	2003
LOWEST ANNUAL MEAN					10.8	2002
HIGHEST DAILY MEAN	1,300	May 22	836	Sep 28	2,610	Jul 23, 1997
LOWEST DAILY MEAN	3.8	Oct 24	2.0	Jun 20	0.18	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	4.1	Oct 19	2.7	Jun 1	0.29	Aug 8, 2002
MAXIMUM PEAK FLOW			2,300	Sep 28	5,680*	Jul 23, 1997
MAXIMUM PEAK STAGE			10.67	Sep 28	15.41*	Jul 23, 1997
INSTANTANEOUS LOW FLOW			1.9*	Jun 8	0.12	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	2.50		1.14		1.27	
ANNUAL RUNOFF (INCHES)	33.92		15.50		17.22	
10 PERCENT EXCEEDS	99		41		44	
50 PERCENT EXCEEDS	11		6.1		6.2	
90 PERCENT EXCEEDS	4.9		3.5		2.2	

* See REMARKS.
e Estimated.



0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to September 2004.

pH: April 1999 to current September 2002.

WATER TEMPERATURE: April 1999 to September 2004.

DISSOLVED OXYGEN: April 1999 to September 2002.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to September 2002.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Land Use and Environmental Services Agency to characterize water-quality conditions in Briar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2670, January 27, 28, 2004	27, September 23, 2000, July 18, 2004
pH, standard units	9.6, October 8, 1999	6.0, June 27, 1999
WATER TEMPERATURE, °C	35.0, July 31, 1999	-0.2, December 26, 31, 2000, January 3, 4, 2001, January 4, 2002, January 24, 2003, February 26, 27, 2004
DISSOLVED OXYGEN, mg/L	15.4, February 3, 2001, January 5, 2002	2.7, April 13, 14, 2001
DISSOLVED OXYGEN, PERCENT SATURATION,%	191, May 30, 2002	24, September 5, 1999

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2670, January 27, 28	27, July 18
WATER TEMPERATURE, °C	34.9, July 10	-0.2, February 26, 27

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	191	181	186	171	161	166	183	173	179	178	176	177
2	194	189	191	177	170	173	178	173	175	178	162	173
3	195	191	193	180	173	177	177	169	174	189	178	182
4	200	191	195	184	172	178	298	158	184	192	180	185
5	201	191	196	---	---	---	245	162	174	196	105	155
6	203	192	198	---	---	---	178	163	170	154	132	142
7	201	188	196	193	172	185	177	173	175	168	154	161
8	206	106	165	194	168	181	176	170	173	177	168	172
9	144	114	129	184	175	178	179	174	176	703	176	306
10	168	127	157	188	180	184	188	74	138	494	329	369
11	149	75	97	190	178	184	134	79	107	392	274	327
12	153	114	135	193	176	185	160	134	151	275	251	267
13	171	153	162	198	183	189	176	72	160	251	212	233
14	182	169	177	197	185	191	162	63	109	212	202	206
15	188	179	182	194	185	190	166	128	147	209	197	201
16	188	168	184	194	181	187	176	162	168	199	196	197
17	190	164	178	189	177	185	177	127	150	200	194	197
18	194	184	189	187	160	173	161	145	157	215	190	199
19	196	181	189	184	119	148	180	161	174	241	191	205
20	195	174	188	152	126	139	187	172	182	243	214	229
21	195	177	188	170	150	161	---	---	---	216	203	210
22	201	179	192	178	167	172	---	---	---	204	198	201
23	201	183	193	182	175	178	190	179	186	200	196	197
24	198	182	193	186	178	181	200	180	189	200	192	196
25	196	177	190	183	176	178	193	181	189	964	184	288
26	205	183	193	182	177	180	193	180	188	1,420	282	635
27	196	183	192	185	175	180	193	179	187	2,670	1,080	1,690
28	195	97	169	187	174	182	194	178	188	2,670	1,550	1,800
29	105	68	85	184	170	177	198	179	191	1,550	936	1,170
30	140	105	125	185	179	181	198	182	191	940	585	746
31	161	135	147	---	---	---	194	178	186	585	476	521
MONTH	206	68	173	---	---	---	---	---	---	2,670	105	385
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	478	350	404	361	166	213	158	94	128	208	119	158
2	560	308	341	213	164	183	185	158	173	141	68	98
3	625	278	348	228	203	216	197	184	191	144	84	118
4	278	263	268	238	220	225	203	193	199	166	142	154
5	264	258	262	228	222	225	205	198	201	195	166	177
6	273	81	203	236	227	234	205	199	202	192	184	188
7	175	100	146	237	233	236	211	201	204	192	185	189
8	198	175	189	237	224	231	219	209	213	194	185	190
9	201	190	199	282	218	225	212	202	208	194	184	190
10	204	189	197	338	222	258	210	198	205	204	186	191
11	203	177	199	245	227	237	216	186	205	205	188	195
12	204	109	144	230	210	220	198	172	185	210	170	190
13	175	131	158	223	209	217	193	88	141	184	173	177
14	183	170	178	220	202	212	175	119	149	191	182	185
15	178	152	168	234	205	213	198	175	187	212	189	193
16	173	149	161	276	218	248	208	197	202	195	189	192
17	---	---	---	267	243	254	228	203	216	205	189	193
18	197	188	192	243	222	231	220	209	215	210	185	195
19	199	194	196	223	203	213	225	209	218	202	190	195
20	202	196	199	223	188	212	242	209	222	200	187	194
21	206	201	204	194	176	188	224	191	208	206	195	200
22	207	202	205	206	188	200	207	194	201	214	197	206
23	209	203	207	206	199	203	210	199	204	215	198	207
24	213	206	209	203	190	197	209	201	205	212	204	209
25	209	199	204	197	182	192	206	201	203	218	192	206
26	550	189	293	203	192	196	209	199	203	213	197	206
27	1,720	400	861	210	203	206	212	198	204	212	194	204
28	1,500	540	1,150	215	207	211	204	196	200	213	191	206
29	540	225	376	214	206	209	209	199	204	226	192	215
30	---	---	---	215	187	205	206	202	203	236	223	230
31	---	---	---	194	109	148	---	---	---	233	115	166
MONTH	---	---	---	361	109	215	242	88	197	236	68	188

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	156	125	143	184	173	179	185	75	158	147	116	133
2	169	156	162	182	172	176	175	99	135	174	147	162
3	183	169	174	173	126	158	194	175	189	184	170	178
4	184	156	170	165	133	149	201	192	196	190	182	186
5	175	162	172	167	76	154	208	199	203	198	189	195
6	182	174	176	148	95	115	202	192	196	205	139	194
7	192	177	184	167	148	160	199	192	196	177	30	106
8	190	102	176	206	163	176	199	194	197	134	39	84
9	139	75	115	206	174	187	200	190	195	191	134	164
10	125	98	109	202	175	189	197	183	191	204	191	199
11	156	125	140	187	156	170	245	160	193	212	200	206
12	209	156	163	176	167	171	196	36	132	208	205	207
13	177	95	133	178	160	169	106	39	77	207	205	206
14	132	65	103	242	173	184	107	54	82	219	204	211
15	127	72	99	212	175	193	143	96	122	220	206	211
16	136	115	125	227	190	200	173	143	157	210	199	205
17	164	134	148	237	41	196	184	173	180	199	44	105
18	171	161	165	78	27	46	195	184	191	164	100	138
19	182	164	172	96	50	73	201	128	193	179	162	171
20	191	169	180	125	96	113	209	198	204	187	178	183
21	197	95	143	147	125	133	206	97	193	195	186	191
22	138	107	123	163	142	149	199	178	193	202	195	198
23	153	42	119	180	144	161	205	194	199	209	198	203
24	121	68	98	168	131	153	210	204	207	209	190	200
25	152	63	104	160	125	145	212	202	207	200	186	194
26	118	71	94	161	138	150	228	204	215	202	182	189
27	148	118	135	163	48	88	239	203	215	202	29	161
28	165	148	159	98	50	66	231	199	209	120	28	72
29	179	163	168	110	58	87	214	68	187	163	120	145
30	198	171	179	128	68	97	108	42	82	---	---	---
31	---	---	---	170	128	150	116	43	83	---	---	---
MONTH	209	42	144	242	27	146	245	36	173	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.2	14.5	17.4	19.1	12.9	15.6	10.6	5.6	7.8	8.8	4.0	6.2
2	20.1	14.7	17.0	19.6	13.5	16.2	9.1	5.1	7.0	9.7	6.6	7.9
3	18.4	12.1	15.0	19.6	14.0	16.5	6.9	5.2	5.9	13.2	7.0	9.8
4	20.3	12.8	16.2	20.2	15.4	17.5	5.8	4.8	5.3	15.4	11.6	13.2
5	21.2	14.6	17.6	---	---	---	6.9	5.5	6.2	15.9	13.2	14.4
6	20.2	16.7	18.2	---	---	---	8.3	5.0	6.4	14.6	6.3	10.7
7	20.9	17.5	18.8	21.8	18.6	20.1	7.4	3.5	5.3	6.6	3.3	5.0
8	18.9	17.3	18.1	18.6	14.8	16.5	7.7	3.1	5.2	6.4	3.2	4.7
9	21.3	18.1	19.2	14.8	10.9	13.4	8.6	3.7	5.8	5.3	4.5	4.9
10	20.4	18.0	19.0	13.6	9.0	11.1	11.0	6.2	8.7	5.5	2.4	4.1
11	19.8	18.0	18.7	15.2	9.6	12.1	10.5	7.3	9.1	4.8	0.9	2.7
12	23.4	17.5	19.8	18.1	12.0	14.8	8.7	5.2	6.8	7.6	1.8	4.3
13	23.2	17.3	19.9	15.9	10.0	13.5	7.4	5.0	6.1	8.5	3.6	5.8
14	20.4	17.3	19.5	12.3	7.8	10	6.1	4.8	5.5	8.4	3.7	5.8
15	19.7	14.9	16.9	11.7	9.4	10.5	8.5	4.6	6.1	9.0	5.3	6.8
16	19.3	12.9	15.5	15.1	9.5	12.1	8.5	5.0	6.8	8.4	3.9	5.9
17	18.3	13.1	15.8	16.3	13.2	14.4	9.5	6.2	8.0	7.7	4.0	5.8
18	19.0	14.3	16.2	17.1	13.4	15.1	8.3	5.0	6.4	8.7	6.9	7.8
19	19.2	12.8	15.6	17.1	14.5	16.4	7.6	5.0	6.4	8.9	4.8	7.0
20	19.9	13.4	16.3	15.6	11.7	13.4	5.8	3.0	4.3	6.2	2.2	4.1
21	19.8	14.5	17.0	15.2	9.9	12.3	---	---	---	6.3	1.8	3.7
22	18.6	14.7	16.6	15.1	9.8	12.2	---	---	---	7.4	1.6	4.2
23	15.5	12.0	13.9	15.1	9.9	12.3	9.2	3.8	6.4	6.8	2.4	4.5
24	16.6	11.7	14.0	14.9	11.1	12.8	12.0	7.9	9.8	9.0	2.7	5.5
25	17.4	12.6	14.6	11.7	8.2	9.8	7.9	4.8	6.4	6.4	1.0	3.6
26	16.5	13.9	15.3	11.9	6.8	9.2	7.2	3.0	4.8	1.0	0.4	0.8
27	18.4	16.0	17.0	12.8	8.8	10.8	7.6	2.7	4.8	3.1	0.9	2.1
28	16.6	14.3	15.3	14.8	10.0	12.9	8.3	3.4	5.5	5.8	0.6	2.8
29	17.1	13.5	14.7	10.0	6.2	8.1	9.4	4.4	6.7	7.0	0.9	3.6
30	18.2	11.9	14.5	9.7	4.8	7.0	10.8	7.2	9.4	8.0	3.2	5.0
31	18.4	12.9	15.3	---	---	---	8.7	4.7	6.6	7.0	2.1	4.3
MONTH	23.4	11.7	16.7	---	---	---	---	---	---	15.9	0.4	5.7
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	1.6	3.8	8.8	4.8	6.9	16.6	10.3	12.6	23.3	18.8	20.5
2	5.3	2.3	3.8	12.5	8.1	10.1	15.9	10.5	12.4	23.1	19.4	20.9
3	6.4	4.4	5.1	16.7	10.4	13.0	19.5	9.1	13.5	21.4	15.6	19.0
4	8.4	2.8	5.2	18.9	12.1	14.9	19.8	10.9	14.2	23.7	13.0	17.4
5	5.7	3.9	4.8	18.8	13.9	16.1	19.4	9.1	13.3	25.8	14.7	19.3
6	5.7	4.7	5.1	19.5	15.3	16.7	20.3	9.4	13.9	27.5	16.6	21.3
7	8.5	5.5	6.6	19.4	12.7	15.3	20.9	11.2	15.5	29.7	18.2	23.1
8	8.5	3.5	5.5	16.5	9.8	12.4	18.4	13.9	15.8	30.2	19.3	24.0
9	5.8	4.0	4.9	10.9	8.3	9.7	24.0	12.7	17.3	30.0	21.0	24.7
10	7.8	4.4	6.0	12.4	8.0	9.6	23.5	14.0	17.7	29.7	20.2	24.2
11	9.2	5.8	7.3	14.9	6.0	9.7	20.1	15.2	17.4	28.4	20.0	23.6
12	7.6	5.5	6.3	16.5	8.0	11.5	15.4	12.2	13.4	26.6	20.9	22.9
13	10.5	4.2	6.8	16.3	8.0	11.4	15.7	11.9	13.5	27.1	20.5	23.1
14	8.5	7.3	7.9	17.1	9.3	12.5	15.3	11.3	13.0	28.2	20.1	23.6
15	8.7	6.7	8.0	14.9	12.9	13.7	20.9	9.3	14.2	28.8	20.1	23.7
16	9.6	4.9	6.6	16.7	13.2	14.5	21.7	12.0	16.3	27.7	20.2	23.7
17	---	---	---	16.5	11.7	13.6	24.5	13.4	18.1	29.4	20.9	24.5
18	10.3	3.1	6.0	12.6	10.2	11.4	26.3	15.4	19.9	29.2	20.9	24.3
19	11.8	3.9	7.2	19.0	9.7	13.4	26.6	16.8	20.8	29.0	21.5	24.4
20	12.8	5.8	9.0	16.9	10.4	13.4	26.2	17.6	21.3	31.3	21.4	25.8
21	15.6	10.2	12.1	19.6	11.7	15.1	24.7	17.7	20.7	31.3	22.4	26.6
22	13.9	7.5	10.2	16.6	8.5	11.5	26.1	17.0	20.8	32.2	23.0	27.1
23	9.8	7.0	8.6	16.4	6.3	10.5	27.3	17.6	21.7	31.8	23.2	26.7
24	12.0	8.4	9.7	18.1	7.6	11.9	28.9	18.7	23.0	31.7	22.8	26.8
25	12.1	7.8	9.5	20.3	10.0	14.4	27.3	20.1	23.0	32.8	23.1	27.5
26	7.9	-0.2	3.9	22.5	12.2	16.5	21.2	18.1	20.0	30.3	24.1	26.7
27	3.7	-0.2	1.9	22.4	14.2	17.9	22.0	15.7	18.4	30.9	22.4	26.1
28	7.1	1.5	4.0	23.5	15.9	18.9	24.4	13.2	18.0	30.2	22.5	25.7
29	8.3	2.5	5.3	21.6	14.2	17.3	25.6	14.1	18.9	29.9	22.6	26.1
30	---	---	---	15.6	12.2	13.4	24.1	16.2	19.8	29.7	23.6	26.0
31	---	---	---	14.8	11.4	12.6	---	---	---	25.9	22.6	23.9
MONTH	---	---	---	23.5	4.8	13.2	28.9	9.1	17.3	32.8	13.0	24.0

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	29.2	20.8	24.6	29.5	23.0	25.7	31.2	25.0	27.3	27.6	23.2	25.1
2	31.1	19.9	25.0	27.6	23.5	25.3	30.3	25.6	27.5	27.6	23.4	25.0
3	31.7	20.5	25.8	26.4	23.5	24.7	31.1	25.0	27.5	27.7	21.6	24.3
4	27.6	22.0	24.5	31.4	23.2	26.6	32.3	24.2	27.8	27.6	21.6	24.3
5	29.0	19.9	24.2	33.5	23.6	27.7	29.7	24.8	27.1	27.6	22.1	24.6
6	25.6	20.8	23.1	33.4	24.1	28.0	28.5	22.4	25.0	26.7	22.8	24.3
7	28.4	21.1	24.3	33.8	24.9	28.6	27.8	19.5	23.6	24.0	22.9	23.5
8	28.0	22.2	24.6	32.5	24.4	28.3	28.2	19.8	23.9	23.7	22.9	23.2
9	26.6	22.1	23.8	34.5	24.8	29.0	28.5	20.5	24.4	26.2	22.5	23.9
10	31.6	22.2	26.3	34.9	25.1	29.4	28.4	21.6	25.0	26.0	21.3	23.4
11	33.8	23.7	28.2	33.5	25.2	28.5	29.8	22.2	25.7	26.3	21.3	23.4
12	32.9	24.3	27.5	32.2	24.9	27.9	24.6	22.3	23.4	26.3	20.7	23.2
13	24.9	22.1	23.0	32.6	24.7	28.3	24.7	22.3	23.3	24.9	20.9	22.8
14	27.0	22.2	24.1	33.4	25.2	28.8	23.1	20.5	21.3	24.8	21.4	22.9
15	28.2	23.5	25.4	31.5	24.0	27.5	22.4	20.4	21.2	24.0	21.0	22.2
16	30.9	24.0	26.8	31.1	22.1	26.4	27.8	20.4	23.5	24.0	21.3	22.5
17	32.6	24.6	28.0	29.9	22.6	25.8	27.2	21.5	24.2	23.3	21.8	22.8
18	34.0	25.0	28.8	26.6	22.6	24.0	28.7	23.0	25.3	25.0	20.3	22.0
19	33.4	25.1	28.6	29.4	22.5	25.6	28.9	22.6	25.5	23.3	18.0	20.2
20	31.1	23.7	27.1	29.9	23.0	26.1	29.9	23.0	26.2	22.4	16.4	19.0
21	25.7	23.0	23.9	30.8	22.9	26.7	29.4	23.8	26.0	22.8	16.2	19.1
22	31.5	22.7	25.7	30.5	23.9	27.2	25.5	23.4	24.4	23.9	16.8	20.0
23	31.5	23.8	26.1	30.9	25.0	27.9	27.9	22.5	25.0	25.0	18.4	21.4
24	28.4	23.9	25.2	31.1	24.8	27.9	30.1	22.7	26.0	24.5	19.3	21.7
25	27.5	23.4	24.7	30.5	24.5	27.5	28.5	22.3	25.2	24.1	18.5	21.1
26	26.1	22.7	24.1	29.9	24.9	27.0	29.0	22.4	25.4	24.0	18.8	21.3
27	28.3	22.4	24.7	28.3	24.0	25.5	30.1	22.4	26.0	22.1	20.4	21.0
28	27.2	22.7	24.5	28.4	24.0	25.8	30.3	23.5	26.6	22.7	21.3	21.8
29	30.8	21.8	25.7	25.9	23.9	24.8	25.8	23.3	24.1	23.2	19.9	21.3
30	26.8	23.1	24.9	30.4	23.9	26.5	30.0	23.0	25.7	---	---	---
31	---	---	---	31.8	24.4	27.4	26.2	23.8	24.7	---	---	---
MONTH	34.0	19.9	25.4	34.9	22.1	27.0	32.3	19.5	25.1	---	---	---

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

LOCATION.--Lat 35°09'52", long 80°51'11", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Seneca Place, 0.8 mi upstream from mouth, and 4 mi south of city hall in Charlotte.

DRAINAGE AREA.--2.63 mi².

PERIOD OF RECORD.--Water years 1967 to 1970 (annual maximum), December 1982 to September 1990, October 1994 to current year.

REVISED RECORDS.--WDR NC-85-1: 1984 (P). WDR NC-88-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 597.32 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurred periodically in 1986, 1987, 1988, 2001, 2002. Maximum discharge for period of record from rating curve extended above 1,700 ft³/s. Minimum discharge for current water year also occurred July 17, 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.50	0.44	0.45	0.49	0.61	7.4	5.4	6.6	0.20	0.34	e1.7	0.64
2	0.55	0.44	0.41	0.53	0.65	3.0	1.1	12	0.15	0.31	e0.62	0.50
3	0.48	0.44	0.40	0.53	6.9	1.4	0.98	0.93	0.14	1.9	e0.52	0.46
4	0.46	0.44	1.1	0.53	0.78	1.1	0.93	0.64	0.32	0.46	e1.0	0.42
5	0.48	0.39	1.2	2.9	0.71	1.0	0.88	0.52	0.17	0.27	e0.42	0.41
6	0.54	0.40	0.52	0.86	36	1.00	0.87	0.48	0.15	0.29	e0.52	0.46
7	0.49	0.42	0.49	0.54	2.2	0.96	0.87	0.47	0.16	0.18	e0.31	62
8	3.6	1.1	0.56	0.56	0.86	0.96	0.86	0.43	0.66	0.15	e0.52	56
9	0.87	0.41	0.44	1.0	0.72	0.93	0.80	0.42	5.8	0.13	e0.42	1.5
10	0.56	0.36	14	0.68	0.66	0.98	0.79	0.42	0.51	0.13	e0.31	0.98
11	8.1	0.40	1.1	0.59	0.63	0.98	1.1	0.41	0.23	1.5	e0.31	0.88
12	0.53	0.44	0.59	0.59	8.7	1.0	2.9	0.57	0.19	0.24	e59	0.75
13	0.50	0.36	10	0.59	0.96	0.95	11	0.39	11	0.13	e35	1.3
14	0.49	0.37	11	0.59	2.0	0.99	0.96	0.37	4.5	0.11	e40	0.80
15	0.44	0.39	1.3	0.64	4.2	1.3	0.77	0.36	0.60	0.09	e9.1	0.54
16	0.43	0.46	0.87	0.59	1.1	1.5	0.73	0.66	1.7	0.08	e3.9	0.54
17	0.45	0.48	2.8	0.54	0.87	0.86	0.70	0.66	0.33	15	e0.78	26
18	0.46	0.49	0.83	1.6	0.85	1.1	0.65	0.67	0.20	2.2	0.48	1.2
19	0.46	4.3	0.69	0.69	0.83	0.94	0.65	0.43	0.18	0.20	5.7	0.76
20	0.44	0.51	0.57	0.55	0.81	0.95	0.65	0.29	0.19	0.13	0.61	0.70
21	0.46	e0.39	0.53	0.54	0.75	2.8	0.62	0.28	3.1	0.11	6.2	0.62
22	0.40	0.41	0.57	0.59	0.67	0.79	0.58	0.25	1.9	0.10	0.93	0.59
23	0.37	0.37	0.60	0.53	0.72	0.80	0.57	0.28	36	0.10	0.48	0.58
24	0.36	0.51	0.65	0.58	e0.84	0.79	e0.53	0.30	3.2	0.08	0.45	0.57
25	0.36	0.55	0.55	1.1	0.65	0.80	e0.52	0.24	21	0.07	0.39	0.52
26	0.42	0.39	0.53	0.85	1.5	0.84	e0.90	0.23	6.3	0.09	0.37	0.59
27	0.55	0.38	0.53	1.4	4.6	0.86	e0.71	0.22	0.64	25	0.36	35
28	4.7	0.58	0.53	1.8	9.4	0.85	e0.51	0.27	0.51	0.71	0.34	17
29	3.9	0.51	0.53	1.4	6.7	0.81	0.51	0.23	0.41	51	6.3	1.2
30	0.44	0.40	0.53	1.3	---	2.0	0.53	0.16	0.35	e0.60	17	0.92
31	0.38	---	0.50	0.75	---	14	---	2.3	---	e0.43	4.4	---
TOTAL	33.17	17.53	55.37	26.43	96.87	54.64	39.57	32.48	100.79	102.13	198.44	214.43
MEAN	1.07	0.58	1.79	0.85	3.34	1.76	1.32	1.05	3.36	3.29	6.40	7.15
MAX	8.1	4.3	14	2.9	36	14	11	12	36	51	59	62
MIN	0.36	0.36	0.40	0.49	0.61	0.79	0.51	0.16	0.14	0.07	0.31	0.41
CFSM	0.41	0.22	0.68	0.32	1.27	0.67	0.50	0.40	1.28	1.25	2.43	2.72
IN.	0.47	0.25	0.78	0.37	1.37	0.77	0.56	0.46	1.43	1.44	2.81	3.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, @ BY WATER YEAR (WY)

MEAN	2.23	2.71	2.93	4.00	4.99	4.51	3.48	3.23	2.97	3.00	2.83	2.54
MAX	5.05	10.5	10.5	9.46	8.96	9.67	10.9	15.5	12.6	13.8	9.12	8.17
(WY)	(1990)	(1986)	(1984)	(1998)	(1990)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(1989)
MIN	0.26	0.58	1.09	0.85	0.91	1.03	0.66	0.88	0.22	0.31	0.19	0.34
(WY)	(2001)	(2004)	(2001)	(2004)	(2002)	(1985)	(2002)	(1987)	(1986)	(1986)	(1987)	(1983)

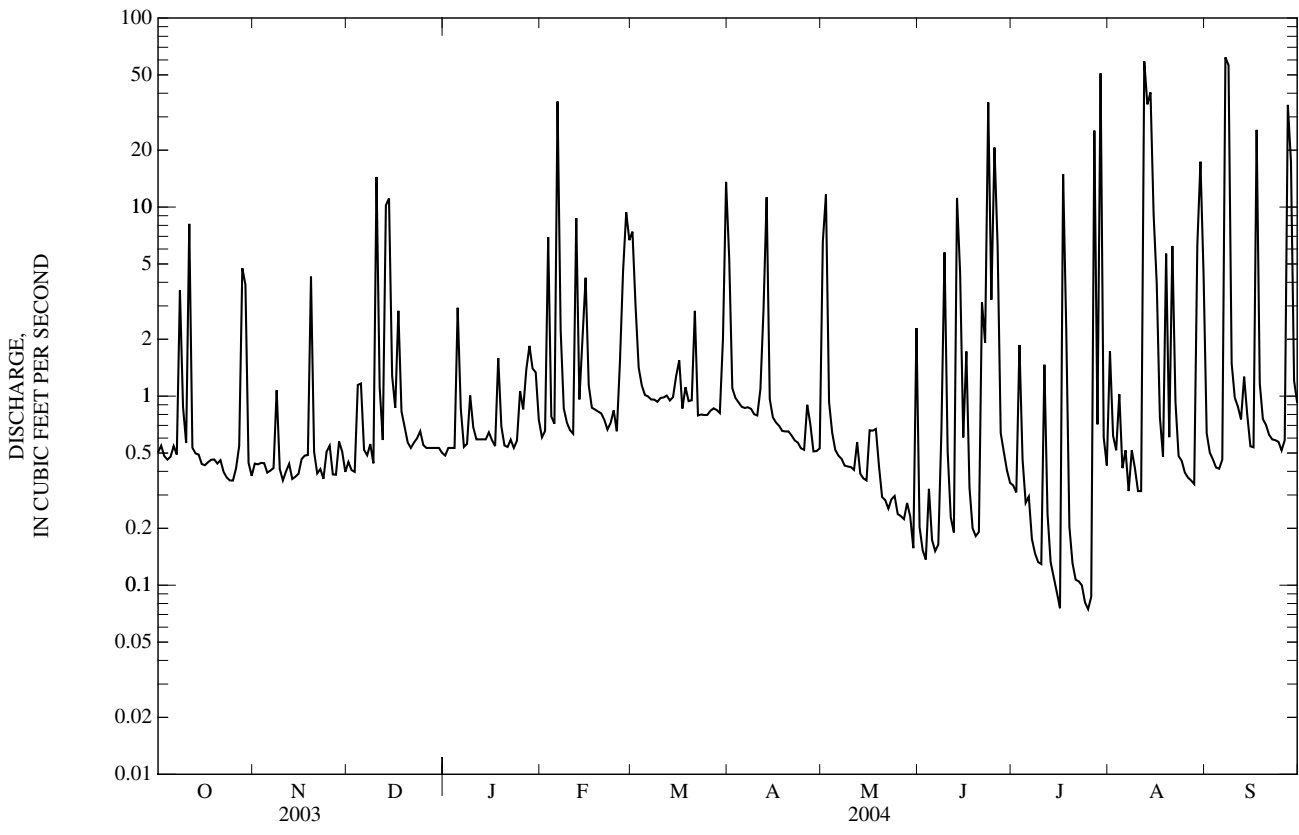
02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004 [@]	
ANNUAL TOTAL	2,020.86		971.85		3.28	
ANNUAL MEAN	5.54		2.66		6.32	
HIGHEST ANNUAL MEAN					1.66	2003
LOWEST ANNUAL MEAN					1.66	2001
HIGHEST DAILY MEAN	229	Jun 7	62	Sep 7	282	Jul 23, 1997
LOWEST DAILY MEAN	0.36	Oct 24	0.07	Jul 25	0.00	Jul 14, 1986
ANNUAL SEVEN-DAY MINIMUM	0.39	Nov 9	0.10	Jul 20	0.00	Jul 14, 1986
MAXIMUM PEAK FLOW			1,120	Sep 8	2,590*	Jun 7, 2003
MAXIMUM PEAK STAGE			7.44	Sep 8	9.89	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.05*	Jul 16	0.00*	Jul 14, 1986
ANNUAL RUNOFF (CFSM)	2.11		1.01		1.25	
ANNUAL RUNOFF (INCHES)	28.58		13.75		16.96	
10 PERCENT EXCEEDS	12		4.9		6.0	
50 PERCENT EXCEEDS	1.3		0.59		0.88	
90 PERCENT EXCEEDS	0.44		0.28		0.24	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.



02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°08'53", long 80°51'28", Mecklenburg County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on Archdale Drive (Secondary Road 3657) in Charlotte, 0.7 mi downstream of Little Hope Creek, and 5.0 mi south of city hall, Charlotte.

DRAINAGE AREA.--42.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 563.69, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges which are poor. A daily average of 17.6 ft³/s of treated sewage effluent from Little Sugar Creek wastewater treatment plant was discharged into the stream 0.4 mi upstream from gage. Minimum discharge for period of record and current water year affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 22, 1975, reached a stage of about 12.7 ft, from floodmarks, discharge, 7,360 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	36	39	38	40	170	160	89	36	36	73	40
2	35	36	41	38	41	112	52	245	32	37	46	36
3	34	37	39	38	162	65	46	71	32	83	e37	34
4	35	36	50	38	45	53	44	45	41	39	e35	33
5	34	36	59	79	42	42	43	40	33	64	e34	32
6	35	39	39	52	711	41	43	40	30	61	e35	44
7	36	37	37	39	125	39	43	39	31	34	e32	1,470
8	91	46	40	39	53	38	43	38	38	32	e32	1,550
9	55	36	37	47	47	37	42	37	111	32	e32	92
10	38	35	292	41	46	38	41	38	46	32	e32	54
11	211	36	68	38	44	36	42	37	33	55	e35	46
12	41	36	41	39	207	36	98	58	31	42	510	42
13	38	35	106	40	56	34	267	40	135	33	445	41
14	37	35	371	40	66	34	57	37	263	31	356	e36
15	36	36	55	40	98	43	46	38	76	30	61	e36
16	36	37	44	39	66	67	44	39	59	30	47	40
17	35	38	89	38	50	50	43	67	38	332	e41	699
18	35	39	46	61	45	49	42	45	34	868	e38	79
19	34	116	42	42	45	61	43	49	33	44	e56	47
20	35	43	39	39	45	43	42	36	31	e37	e41	43
21	35	37	39	39	44	69	41	35	262	e36	53	41
22	35	36	39	39	42	44	40	34	57	e32	42	40
23	34	36	40	39	43	42	41	33	450	e30	35	40
24	34	38	41	38	45	42	40	35	118	e28	34	37
25	34	40	39	44	41	42	43	33	441	e27	33	38
26	38	37	38	44	43	42	44	33	181	e27	33	37
27	40	37	38	50	112	42	47	33	45	627	33	418
28	101	40	38	59	197	42	40	35	39	79	32	1,710
29	145	41	38	49	161	42	39	36	36	504	115	83
30	40	38	39	44	---	59	39	32	35	51	235	54
31	37	---	38	41	---	248	---	80	---	41	269	---
TOTAL	1,539	1,205	2,001	1,351	2,762	1,802	1,695	1,547	2,827	3,434	2,932	6,992
MEAN	49.6	40.2	64.5	43.6	95.2	58.1	56.5	49.9	94.2	111	94.6	233
MAX	211	116	371	79	711	248	267	245	450	868	510	1,710
MIN	34	35	37	38	40	34	39	32	30	27	32	32
CFSM	1.17	0.94	1.52	1.02	2.24	1.36	1.33	1.17	2.21	2.60	2.22	5.47
IN.	1.34	1.05	1.75	1.18	2.41	1.57	1.48	1.35	2.47	3.00	2.56	6.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2004, BY WATER YEAR (WY)

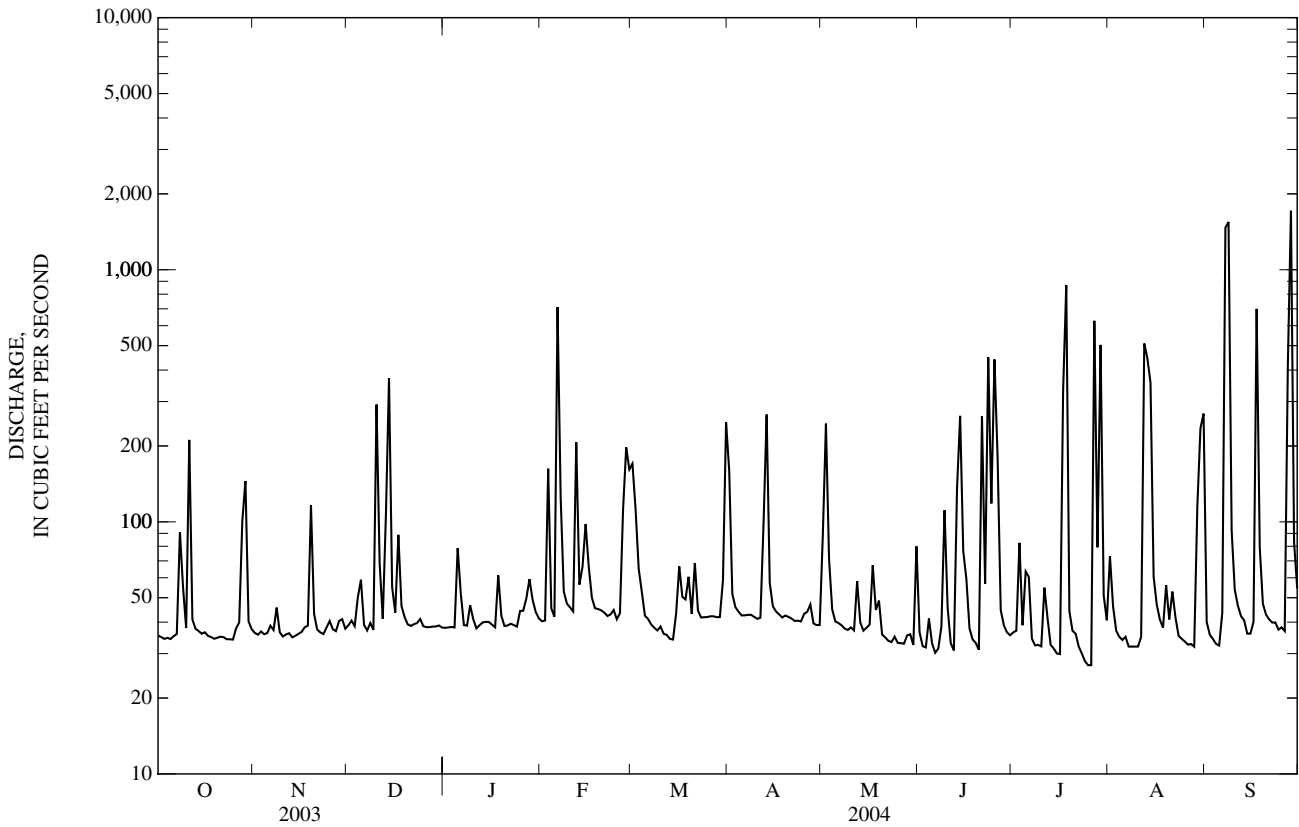
MEAN	70.1	69.4	69.9	105	109	120	89.1	77.3	77.3	74.0	75.5	70.4
MAX	258	197	164	207	194	245	257	322	256	310	227	233
(WY)	(1991)	(1986)	(1984)	(1978)	(1979)	(1993)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	25.1	22.6	32.8	31.6	44.4	40.0	30.8	33.8	20.5	27.2	29.5	21.7
(WY)	(2001)	(1982)	(1981)	(1981)	(2002)	(1985)	(1981)	(1986)	(1986)	(1986)	(1987)	(1986)

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1978 - 2004	
ANNUAL TOTAL	50,842		30,087			
ANNUAL MEAN	139		82.2		83.8	
HIGHEST ANNUAL MEAN					154	2003
LOWEST ANNUAL MEAN					51.7	1981
HIGHEST DAILY MEAN	3,310	May 22	1,710	Sep 28	6,160	Jul 23, 1997
LOWEST DAILY MEAN	29	Jan 11	27	Jul 25	15	Sep 20, 1981
ANNUAL SEVEN-DAY MINIMUM	30	Jan 10	31	Jul 20	15	May 28, 1994
MAXIMUM PEAK FLOW			6,950	Sep 8	13,600	Jul 23, 1997
MAXIMUM PEAK STAGE			11.35	Sep 8	15.06	Jul 23, 1997
INSTANTANEOUS LOW FLOW			18*	May 28	2.1*	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	3.27		1.93		1.97	
ANNUAL RUNOFF (INCHES)	44.40		26.27		26.73	
10 PERCENT EXCEEDS	284		117		150	
50 PERCENT EXCEEDS	49		40		38	
90 PERCENT EXCEEDS	35		34		25	

* See REMARKS.

e Estimated.



02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to September 2004.

pH: April 1999 to September 2002.

WATER TEMPERATURE: April 1999 to September 2004.

DISSOLVED OXYGEN: April 1999 to September 2002.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to September 2002.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Land Use and Environmental Services Agency to characterize water-quality conditions in Little Sugar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2560, April 24, 2000	16, March 20, 2003
pH, standard units	11.8, April 24, 2000	5.9, April 27, 1999
WATER TEMPERATURE, °C	32.0, July 30, 2002	2.1, February 26, 2004
DISSOLVED OXYGEN, mg/L	13.0, June 23, 1999	1.5, May 30, 2002
DISSOLVED OXYGEN, PERCENT SATURATION,%	159, June 26, 2000, July 16, 2001	18, May 30, 2002

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2540, January 28	19, September 7
WATER TEMPERATURE, °C	31.1, July 9	2.1, February 26

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	489	366	462	452	383	432	408	333	372	353	338	345
2	494	400	472	432	360	404	455	360	423	344	329	337
3	506	411	487	448	369	405	460	411	441	344	331	340
4	495	416	470	461	415	443	466	298	409	343	327	338
5	479	413	451	473	403	455	399	309	374	348	242	318
6	443	378	417	481	415	456	423	374	408	389	267	339
7	470	409	445	496	436	474	425	385	411	405	357	396
8	477	163	350	495	335	414	408	328	387	413	384	403
9	393	250	328	417	347	390	457	334	432	442	389	409
10	428	362	407	469	351	427	468	169	309	722	442	590
11	409	108	216	482	396	458	316	189	263	492	438	458
12	394	287	345	501	396	476	371	316	345	461	421	434
13	427	302	389	514	408	497	389	228	369	482	439	467
14	451	354	435	519	427	500	248	168	202	497	439	470
15	474	378	452	513	457	491	318	247	282	471	414	443
16	485	377	461	474	405	441	359	318	340	460	421	448
17	473	367	446	453	377	426	366	234	301	469	398	433
18	465	397	441	498	429	473	349	293	325	406	275	328
19	466	386	439	484	187	324	353	341	349	424	314	361
20	471	362	422	419	299	373	364	345	355	454	359	432
21	477	426	452	455	393	431	363	346	353	463	399	444
22	458	386	429	469	412	453	348	324	335	465	370	446
23	462	419	448	491	427	469	353	327	340	474	388	450
24	487	429	466	468	353	433	358	344	351	475	407	441
25	498	434	473	453	331	431	350	328	339	442	363	400
26	469	373	418	478	376	442	336	317	326	1,080	439	757
27	435	342	391	435	374	411	333	318	327	2,310	1,060	1,720
28	450	154	360	395	315	361	333	319	328	2,540	1,180	1,710
29	334	105	220	375	315	342	329	318	324	1,260	796	1,020
30	409	240	370	376	302	356	347	324	336	796	668	729
31	441	317	417	---	---	---	352	336	346	668	568	628
MONTH	506	105	412	519	187	430	468	168	348	2,540	242	543
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	568	479	523	305	228	272	320	153	237	453	204	313
2	479	457	465	352	238	294	382	320	351	248	108	186
3	538	371	413	405	348	385	396	354	380	341	162	250
4	450	415	429	440	357	396	398	357	380	398	288	355
5	469	450	463	383	346	372	377	341	362	430	358	400
6	468	132	321	380	348	371	420	364	394	458	402	434
7	322	160	269	388	347	378	455	407	436	467	387	433
8	361	322	346	393	358	384	476	422	456	469	413	435
9	388	352	366	398	360	386	477	428	451	415	362	381
10	419	384	399	451	374	413	429	371	394	418	343	372
11	454	419	440	472	404	445	387	347	365	448	387	429
12	466	186	311	450	391	431	347	208	278	458	275	401
13	391	304	355	---	---	---	339	111	243	430	350	405
14	410	283	365	430	375	408	378	236	319	454	387	438
15	359	242	304	431	381	404	417	321	389	479	407	447
16	371	267	314	---	---	---	454	362	429	461	354	409
17	406	366	391	467	414	445	445	395	426	383	150	309
18	423	390	412	484	438	469	426	377	400	426	289	394
19	446	410	430	---	---	---	408	349	378	427	286	367
20	461	426	451	442	375	426	453	372	422	446	404	426
21	490	452	471	412	266	337	484	420	456	460	431	448
22	457	406	428	411	325	378	487	424	455	462	425	442
23	415	385	400	459	387	431	448	395	425	431	397	412
24	474	412	438	470	410	450	449	407	432	436	368	393
25	482	389	452	473	415	444	449	330	405	471	427	448
26	497	350	406	445	405	431	419	344	396	481	456	472
27	2,060	471	1,320	449	395	433	492	335	426	487	451	474
28	1,190	531	899	440	388	413	511	425	487	498	397	473
29	534	299	399	436	358	395	512	432	491	422	393	410
30	---	---	---	486	320	420	492	423	460	423	381	402
31	---	---	---	373	124	254	---	---	---	402	217	318
MONTH	2,060	132	448	---	---	---	512	111	397	498	108	396

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	19.0	22.6	22.3	18.4	20.6	17.2	12.8	15.4	14.1	10.8	12.8
2	24.1	19.9	22.4	22.4	18.4	20.6	17.0	12.2	15.1	14.4	11.6	13.3
3	23.3	18.2	21.5	22.5	19.0	20.9	15.5	13.1	14.8	16.0	11.7	14.3
4	23.6	19.1	21.9	22.8	19.9	21.5	15.3	9.5	13.4	17.2	14.5	16.0
5	24.2	20.4	22.4	23.7	21.1	22.6	13.9	9.3	11.7	17.3	15.5	16.4
6	23.8	21.2	22.7	24.1	21.9	23.0	15.3	12.2	14.1	15.8	13.0	14.8
7	24.2	21.9	23.1	24.0	22.3	23.2	15.2	11.7	13.7	13.9	8.8	12.7
8	23.1	19.8	21.6	22.6	19.0	20.4	15.3	9.0	13.2	13.6	9.6	12.4
9	23.3	20.4	22.0	20.0	17.3	18.8	15.5	9.9	14.2	13.3	10.2	11.5
10	23.6	21.9	22.9	19.5	14.2	18.1	14.9	9.6	12.5	12.7	9.3	11.2
11	22.6	18.7	20.6	20.2	14.4	18.5	14.4	10.6	13.2	12.6	8.6	10.9
12	24.1	20.8	22.5	21.6	16.3	20.0	15.0	9.6	13.5	13.4	9.1	11.6
13	24.1	20.5	23.0	20.9	18.0	19.8	14.5	5.8	12.8	14.1	10.3	12.5
14	23.6	22.2	23.2	19.4	14.5	18.0	9.6	5.5	7.5	14.2	10.9	12.8
15	23.6	19.3	22.0	18.9	16.4	18.0	12.7	8.6	11.0	14.8	11.6	13.3
16	23.2	17.8	21.3	19.7	16.1	18.2	14.0	10.4	12.5	14.4	11.0	13.0
17	22.7	18.1	21.3	20.5	17.7	19.3	13.8	9.6	11.8	14.1	10.5	12.9
18	23.0	19.8	21.5	21.1	18.2	20.0	13.7	9.6	12.3	13.5	9.4	11.8
19	23.0	18.4	21.1	20.9	17.1	18.9	13.4	11.4	12.6	14.0	10.8	12.4
20	23.1	18.9	21.3	19.8	16.4	18.3	13.0	9.7	11.7	13.5	8.1	11.8
21	23.3	20.0	21.9	20.1	16.5	18.5	12.6	9.0	11.1	13.2	8.8	11.7
22	23.2	20.1	21.7	20.2	16.4	18.6	12.9	6.8	11.3	13.8	7.7	12.1
23	21.5	19.0	20.6	20.2	16.7	18.6	13.9	7.8	12.4	13.8	8.9	12.3
24	22.0	18.6	20.5	19.7	15.7	18.5	15.5	13.2	14.2	14.3	9.4	12.4
25	22.1	18.9	20.6	18.1	12.5	16.7	13.7	10.7	12.4	13.1	6.5	10.3
26	21.4	19.7	20.5	18.4	12.4	16.7	13.0	9.3	11.4	9.6	6.4	8.2
27	21.8	19.7	21.0	18.4	15.3	17.3	13.2	9.1	11.5	10.0	6.7	8.5
28	21.3	15.9	19.5	19.0	15.8	17.7	13.6	9.5	11.9	10.5	6.1	8.0
29	19.2	14.5	17.2	16.5	12.8	14.9	13.9	10.2	12.4	11.8	6.7	9.4
30	21.1	15.1	19.3	16.6	11.8	14.8	15.4	12.7	14.0	12.5	8.8	10.9
31	21.9	16.9	20.3	---	---	---	14.4	10.8	12.8	12.6	8.7	11.0
MONTH	24.5	14.5	21.4	24.1	11.8	19.0	17.2	5.5	12.7	17.3	6.1	12.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.1	7.9	10.4	9.8	7.1	8.6	16.4	11.9	14.1	22.7	20.2	21.3
2	11.3	7.8	10.4	13.2	8.9	11.2	16.8	13.9	15.2	22.5	20.1	21.4
3	9.8	4.7	7.7	16.3	12.4	14.3	18.8	13.2	16.1	21.6	19.1	20.3
4	12.0	6.9	10.3	18.0	14.0	16.0	19.3	14.6	16.7	21.8	16.9	19.5
5	11.6	8.8	10.8	18.4	15.3	16.9	18.8	13.6	16.2	23.3	18.3	20.8
6	11.0	5.4	7.5	18.7	16.6	17.4	19.4	14.1	16.7	24.5	19.9	22.2
7	10.7	6.4	8.9	19.0	15.0	16.6	20.1	15.1	17.8	25.6	21.0	23.2
8	11.1	7.3	9.4	16.7	13.1	14.6	19.4	16.9	18.2	25.9	21.7	23.6
9	10.7	8.4	9.8	13.4	11.8	12.6	21.7	16.4	18.9	25.8	22.3	23.7
10	12.2	9.0	10.8	13.8	10.7	12.3	21.5	16.9	19.0	25.8	21.8	23.5
11	13.2	10.4	12.0	15.2	10.2	12.6	20.0	17.8	18.8	25.7	21.8	23.7
12	12.8	6.5	9.1	16.4	11.7	13.8	17.9	14.6	15.4	25.0	22.6	23.7
13	12.6	8.4	10.6	---	---	---	16.2	14.1	15.4	25.5	22.4	23.8
14	12.4	9.8	11.2	17.1	12.2	14.7	16.8	14.2	15.8	26.0	22.4	24.1
15	11.9	8.9	10.4	16.6	14.4	15.6	19.7	13.1	16.9	26.2	22.6	24.2
16	12.0	8.3	10	---	---	---	21.0	15.4	18.4	25.3	22.6	23.9
17	10.9	7.7	10	17.8	14.5	16.2	22.0	17.1	19.4	25.6	22.0	23.8
18	13.0	7.3	11.0	16.2	13.6	15.2	22.8	18.1	20.3	26.2	22.8	24.4
19	14.0	9.3	11.9	---	---	---	23.0	18.9	20.7	26.2	23.0	24.4
20	14.8	9.8	13.0	17.9	13.9	16.3	22.9	19.6	21.2	27.7	23.5	25.4
21	16.7	13.5	14.7	18.9	15.0	16.4	22.9	19.9	21.2	27.4	24.2	25.8
22	15.4	11.6	13.6	17.1	12.6	14.8	23.4	19.6	21.4	28.3	24.6	26.2
23	13.5	11.5	12.7	17.3	11.9	14.6	24.0	20.0	21.9	27.7	24.5	25.8
24	14.8	12.0	13.4	18.1	12.7	15.5	24.8	20.6	22.5	27.6	23.9	25.6
25	15.0	11.6	13.4	19.4	14.4	16.9	24.4	21.0	22.5	28.6	24.4	26.3
26	11.7	2.1	7.8	20.7	15.7	18.1	21.6	19.8	21.1	28.0	25.1	26.2
27	5.3	2.6	4.2	21.0	16.8	18.9	21.7	18.0	20.1	27.8	24.3	25.9
28	7.9	3.8	5.7	21.3	17.7	19.4	22.6	17.3	20.2	28.0	24.4	26.0
29	9.4	6.0	7.5	20.3	16.6	18.4	23.3	17.9	20.8	27.6	24.3	25.8
30	---	---	---	18.0	14.6	16.3	23.1	19.4	21.4	27.3	24.6	25.7
31	---	---	---	15.8	12.5	14.1	---	---	---	25.3	23.3	24.6
MONTH	16.7	2.1	10.3	---	---	---	24.8	11.9	18.8	28.6	16.9	24.0

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.1	23.1	25.0	28.3	25.5	26.8	30.0	26.8	28.1	28.4	25.7	26.8
2	28.0	23.3	25.6	27.6	25.7	26.5	29.2	26.8	27.9	28.3	26.0	27.0
3	28.2	23.8	26.0	26.7	25.1	26.0	29.8	27.0	28.2	28.4	25.2	26.7
4	26.7	24.7	25.6	28.4	25.0	26.5	30.1	26.7	28.4	28.1	25.2	26.5
5	27.5	23.5	25.4	29.2	25.3	27.1	29.8	27.1	28.3	28.0	25.1	26.4
6	25.9	23.8	24.9	29.4	25.1	27.1	28.9	25.5	27.0	27.6	25.3	26.1
7	26.7	23.4	25.2	29.8	26.2	27.7	28.8	24.2	26.5	25.8	23.2	24.5
8	27.2	24.4	25.7	29.7	26.1	27.8	28.5	24.3	26.3	24.0	23.1	23.5
9	25.8	23.6	24.6	31.1	26.3	28.1	28.9	24.6	26.8	26.0	23.6	24.7
10	28.2	23.6	25.9	30.5	26.7	28.3	28.9	25.3	27.2	26.4	23.9	25.2
11	29.5	25.4	27.3	30.2	26.2	27.9	29.6	25.7	27.4	27.1	24.3	25.5
12	29.5	26.0	27.2	29.0	26.4	27.6	26.2	22.7	24.9	27.0	23.9	25.4
13	26.1	22.2	24.3	29.7	26.5	28.1	25.4	22.6	24.1	26.5	24.2	25.4
14	26.1	23.6	24.8	30.5	27.1	28.6	24.6	20.7	22.5	---	---	---
15	27.0	24.3	25.6	30.2	26.7	28.2	23.9	22.4	23.3	---	---	---
16	28.4	25.1	26.7	29.7	25.8	27.7	27.1	23.4	25.2	26.1	24.5	25.4
17	29.0	26.2	27.4	28.9	23.3	27.3	27.6	24.8	26.2	25.6	22.9	24.0
18	30.3	26.4	28.0	26.2	23.0	24.6	28.3	25.6	26.8	24.9	22.3	23.5
19	30.1	26.6	28.0	27.9	24.6	26.4	29.3	25.6	27.0	24.7	22.0	23.2
20	28.8	25.8	27.1	28.9	25.7	27.3	29.1	25.6	27.4	24.2	21.1	22.6
21	26.3	22.3	24.8	29.5	26.0	27.6	28.9	25.9	27.2	25.2	21.3	23.2
22	28.4	24.0	26.1	29.2	26.3	27.8	26.7	25.4	26.0	25.8	21.7	23.8
23	28.9	25.2	26.5	29.8	27.1	28.5	28.4	25.1	26.6	26.5	22.9	24.6
24	27.3	24.6	25.7	30.3	27.1	28.5	29.2	25.7	27.3	26.2	21.4	24.5
25	27.2	23.8	25.4	29.5	26.6	27.9	28.6	25.6	27.1	26.1	22.9	24.4
26	26.1	23.2	24.7	29.1	26.7	27.7	28.9	25.8	27.2	26.0	22.9	24.4
27	26.9	24.1	25.5	27.8	24.4	26.0	29.3	25.7	27.5	24.5	22.0	23.4
28	26.8	24.8	25.7	28.3	25.3	26.7	30.0	26.3	27.9	23.3	21.4	22.3
29	28.6	24.6	26.5	27.1	24.1	25.9	27.3	24.4	26.3	23.8	21.7	22.7
30	27.1	25.4	26.4	29.3	25.4	27.0	28.2	24.2	25.9	---	---	---
31	---	---	---	30.0	26.6	28.1	26.4	24.5	25.5	---	---	---
MONTH	30.3	22.2	25.9	31.1	23.0	27.3	30.1	20.7	26.6	---	---	---

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC

LOCATION.--Lat 35°05'07", long 80°52'56", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge on State Highway 51, 0.5 mi east of intersection of State Highway 51 and U.S. Highway 521 at Pineville.,

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1966-97. June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 531.94 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. A daily average of 17.6 ft³/s of treated effluent from Little Sugar Creek wastewater treatment plant was discharged into the stream 5.2 mi upstream from the gage. Maximum gage height for period of record from floodmarks. Maximum discharge for period of record from rating curve extended above 10,100 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	33	35	34	34	205	212	75	35	37	66	41
2	31	33	36	34	35	149	50	237	29	35	54	34
3	31	33	34	34	172	65	43	107	29	93	36	31
4	31	33	40	34	43	52	41	42	35	43	33	30
5	31	33	62	64	38	41	39	37	31	36	32	29
6	32	35	36	61	607	39	39	36	28	89	33	39
7	33	34	35	35	222	36	39	35	29	32	30	1,200
8	88	41	36	35	58	35	39	34	37	30	30	1,640
9	62	34	36	42	47	34	38	33	129	29	30	116
10	35	32	266	38	45	35	38	34	57	28	30	59
11	219	33	104	34	42	33	38	33	31	48	33	48
12	39	33	40	35	224	32	88	49	29	41	292	43
13	34	33	48	35	62	31	255	38	171	29	608	41
14	33	33	441	35	64	31	59	33	189	28	384	41
15	33	34	63	35	106	35	41	34	136	27	71	39
16	32	34	44	34	75	58	38	35	67	26	45	39
17	32	35	96	33	48	45	36	62	38	28	39	713
18	32	36	47	53	42	40	35	33	33	e900	36	92
19	31	127	40	38	41	54	35	48	32	e50	54	45
20	31	46	37	34	40	39	35	32	30	37	39	38
21	31	36	37	34	39	65	35	31	259	35	51	36
22	31	35	37	34	38	40	34	31	92	31	49	34
23	31	34	37	33	38	38	34	30	387	29	33	34
24	31	34	38	33	40	38	34	31	202	27	31	32
25	30	37	36	37	38	38	36	30	344	26	30	32
26	33	34	36	40	38	38	35	30	310	26	30	31
27	36	34	36	41	110	38	41	30	53	543	29	193
28	78	36	36	52	211	38	32	30	41	145	28	1,800
29	199	38	35	45	192	38	32	35	38	513	63	99
30	38	34	36	38	---	50	32	30	35	69	203	57
31	35	---	35	36	---	226	---	78	---	42	353	---
TOTAL	1,494	1,137	1,975	1,200	2,789	1,736	1,583	1,453	2,956	3,152	2,875	6,706
MEAN	48.2	37.9	63.7	38.7	96.2	56.0	52.8	46.9	98.5	102	92.7	224
MAX	219	127	441	64	607	226	255	237	387	900	608	1,800
MIN	30	32	34	33	34	31	32	30	28	26	28	29
CFSM	0.98	0.77	1.29	0.79	1.95	1.14	1.07	0.95	2.00	2.07	1.88	4.54
IN.	1.13	0.86	1.49	0.91	2.11	1.31	1.20	1.10	2.24	2.38	2.17	5.07

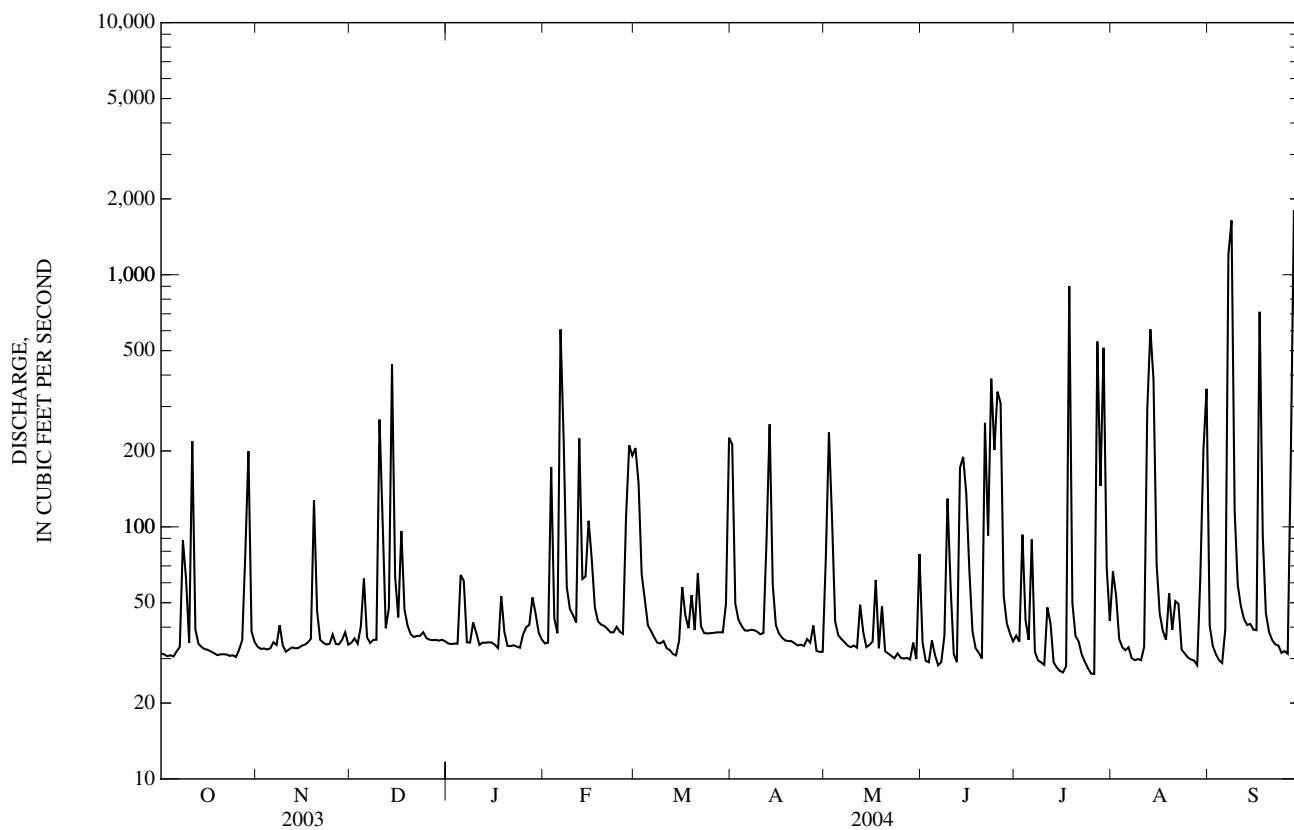
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	MIN	CFSM	IN.
(WY)	66.5	115	33.0	0.98	1.13
(WY)	60.3	104	29.9	0.77	0.86
(WY)	80.1	152	46.9	1.29	1.49
(WY)	108	236	38.7	0.79	0.91
(WY)	95.2	167	44.2	1.95	2.11
(WY)	112	237	55.5	1.14	1.31
(WY)	117	269	35.4	1.07	1.20
(WY)	93.0	332	40.1	0.95	1.10
(WY)	97.6	283	35.1	2.00	2.24
(WY)	122	336	57.1	2.07	2.38
(WY)	72.4	123	36.3	1.88	2.17
(WY)	94.3	224	54.2	4.54	5.07

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	53,395		29,056		91.5	
ANNUAL MEAN	146		79.4		56.9	
HIGHEST ANNUAL MEAN					164	2003
LOWEST ANNUAL MEAN					56.9	2002
HIGHEST DAILY MEAN	3,430	May 22	1,800	Sep 28	6,780	Jul 23, 1997
LOWEST DAILY MEAN	30	Oct 25	26	Jul 16	21	Dec 9, 2001
ANNUAL SEVEN-DAY MINIMUM	31	Oct 19	30	Jul 20	22	Oct 16, 2001
MAXIMUM PEAK FLOW			3,900	Sep 8	11200*	Jul 23, 1997
MAXIMUM PEAK STAGE			14.47	Sep 8	23.04*	Jul 23, 1997
INSTANTANEOUS LOW FLOW			21	Sep 24	10	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.97		1.61		1.86	
ANNUAL RUNOFF (INCHES)	40.37		21.97		25.26	
10 PERCENT EXCEEDS	289		146		182	
50 PERCENT EXCEEDS	53		36		39	
90 PERCENT EXCEEDS	34		31		28	

* See REMARKS.
e Estimated.



0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC

LOCATION.--Lat 35°10'33", long 80°43'09", Mecklenburg County, Hydrologic Unit 03050103, on left bank at upstream side of culvert on State Road 3120 (Idlewild Road), 1.5 mi above Irvins Creek, and 1.6 mi southeast of Idlewild.

DRAINAGE AREA.--7.52 mi².

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 613.19 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred June 2-4, 6-7, 12, 21, and Aug. 11. No flow also occurred July 11, Aug. 13-14, 2002. Maximum discharge for current water year and period of record from rating curve extended above 800 ft³/s on basis of culvert computation of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	0.74	1.5	0.83	0.41	40	15	1.6	0.37	0.73	0.81	2.3
2	1.2	0.72	1.3	0.72	0.37	28	4.8	7.9	0.17	0.79	9.0	1.3
3	1.1	0.72	1.2	0.75	11	11	3.1	3.0	0.11	0.71	2.8	1.5
4	1.2	0.66	1.9	0.74	2.0	6.4	2.6	1.4	0.19	0.87	0.89	0.62
5	1.1	0.59	3.6	2.1	1.0	4.7	2.2	1.0	0.25	16	1.1	0.51
6	1.1	0.94	1.7	1.7	52	4.0	2.1	1.5	0.15	6.1	0.66	0.55
7	1.7	1.4	1.9	0.81	22	4.2	2.3	1.9	0.16	0.80	0.39	204
8	6.0	2.5	1.6	0.63	5.4	4.4	2.1	2.4	0.30	0.33	0.31	211
9	3.3	e1.8	1.8	1.1	3.4	3.3	2.0	1.6	1.5	0.21	0.26	18
10	1.8	e1.2	23	0.81	3.1	3.4	1.7	e1.1	0.36	0.19	0.19	7.6
11	16	e0.90	11	0.61	2.5	2.9	1.6	e0.84	0.21	4.2	0.18	5.0
12	3.4	e0.74	2.9	0.54	20	2.9	3.1	e0.93	0.19	5.4	7.0	4.1
13	1.9	e0.60	4.2	0.53	7.9	2.6	13	0.81	1.1	0.83	78	3.2
14	1.7	e0.54	30	0.50	7.1	2.6	5.5	0.73	2.1	0.38	81	3.2
15	1.9	e0.52	5.9	0.50	10	3.2	2.6	0.72	1.9	0.27	e12	2.3
16	1.7	e0.75	2.8	0.43	7.6	7.1	2.0	0.61	1.1	0.26	e6.3	2.9
17	1.7	e0.68	7.3	0.41	4.4	3.8	e1.9	0.63	0.62	97	e2.8	35
18	1.6	e0.65	3.0	1.6	3.5	3.3	e1.8	0.58	0.48	169	e2.1	13
19	1.6	e4.0	2.0	0.79	2.9	4.2	e1.7	0.44	0.25	6.1	e1.7	6.1
20	1.6	e1.8	1.4	0.51	2.6	3.3	e1.9	0.41	0.23	2.5	0.74	3.4
21	1.0	e0.95	1.2	0.53	2.3	8.0	1.4	0.39	4.9	1.4	0.74	2.8
22	0.98	0.78	1.2	0.49	2.0	3.5	1.2	0.31	0.63	e1.4	1.0	2.4
23	0.84	0.81	1.0	0.55	1.9	2.6	1.2	0.29	20	e1.7	0.63	1.3
24	0.71	1.0	1.4	0.51	2.1	2.2	0.91	0.42	28	e1.4	0.46	1.2
25	0.58	1.2	0.93	e1.6	1.8	2.1	0.83	0.31	17	e1.2	0.39	1.1
26	0.59	1.2	0.78	e2.5	2.8	2.2	0.90	0.26	15	e1.0	0.33	1.1
27	0.78	1.8	0.71	e3.4	13	2.1	1.2	0.22	2.4	109	0.28	85
28	5.3	1.3	0.81	e6.1	22	2.1	0.71	0.18	0.98	31	0.28	385
29	13	1.4	1.1	0.82	28	2.0	0.58	0.45	0.76	13	8.7	19
30	2.1	1.2	1.0	0.67	---	3.9	0.57	0.23	0.67	4.2	12	e7.0
31	1.0	---	1.0	0.49	---	11	---	1.6	---	1.7	12	---
TOTAL	79.78	34.09	121.13	34.27	245.08	187.0	82.50	34.76	102.08	479.67	245.04	1,031.48
MEAN	2.57	1.14	3.91	1.11	8.45	6.03	2.75	1.12	3.40	15.5	7.90	34.4
MAX	16	4.0	30	6.1	52	40	15	7.9	28	169	81	385
MIN	0.58	0.52	0.71	0.41	0.37	2.0	0.57	0.18	0.11	0.19	0.18	0.51
CFSM	0.34	0.15	0.52	0.15	1.12	0.80	0.37	0.15	0.45	2.06	1.05	4.57
IN.	0.39	0.17	0.60	0.17	1.21	0.93	0.41	0.17	0.50	2.37	1.21	5.10

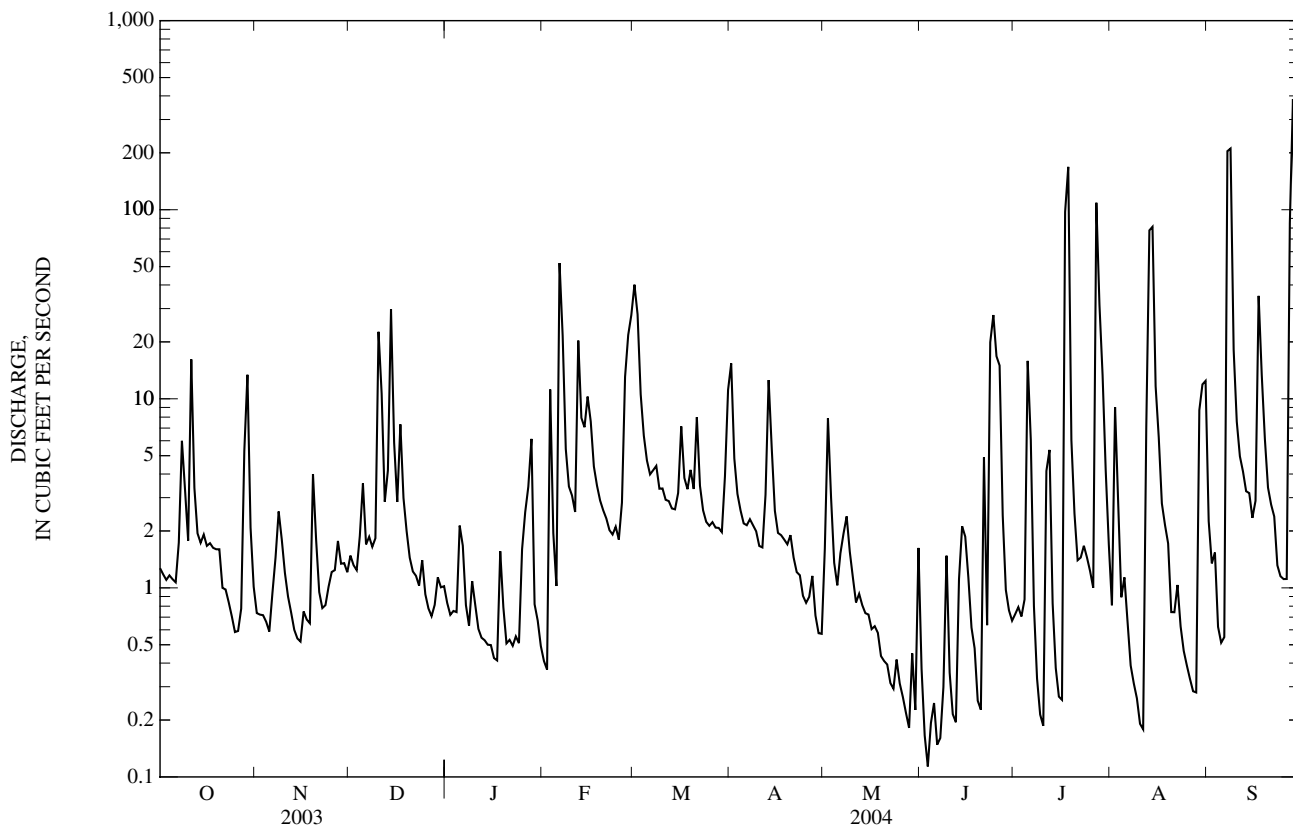
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	4.04	3.35	5.72	5.03	7.97	12.6	9.71	7.61	10.8	7.85	5.25	9.18
MAX	8.81	8.95	18.3	9.20	12.1	26.1	31.2	31.1	53.5	21.0	12.8	34.4
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.45	0.82	1.70	1.11	3.02	5.35	2.24	1.12	0.64	0.79	0.63	2.44
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2000)	(2002)	(2004)	(2002)	(2002)	(2001)	(2002)

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	6,160.82		2,676.88		7.75	
ANNUAL MEAN	16.9		7.31		2.94	
HIGHEST ANNUAL MEAN					19.2	2003
LOWEST ANNUAL MEAN					2.94	2002
HIGHEST DAILY MEAN	654	Jun 7	385	Sep 28	654	Jun 7, 2003
LOWEST DAILY MEAN	0.52	Nov 15	0.11	Jun 3	0.00	Jul 10, 2002
ANNUAL SEVEN-DAY MINIMUM	0.64	Nov 12	0.19	Jun 2	0.01	Aug 9, 2002
MAXIMUM PEAK FLOW			1,580*	Sep 28	5,600*	Jun 7, 2003
MAXIMUM PEAK STAGE			7.79	Sep 28	13.32	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.09*	Jun 2	0.00*	Jul 10, 2002
ANNUAL RUNOFF (CFSM)	2.24		0.973		1.03	
ANNUAL RUNOFF (INCHES)	30.48		13.24		14.00	
10 PERCENT EXCEEDS	34		12		14	
50 PERCENT EXCEEDS	4.3		1.6		1.9	
90 PERCENT EXCEEDS	1.0		0.39		0.31	

* See REMARKS.
e Estimated.



02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'12", long 80°44'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank upstream side culvert on Secondary Road 3150, 2.3 mi upstream from mouth, and 6.0 mi east of Charlotte.

DRAINAGE AREA.--5.6 mi².

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 663.92 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow also occurred Aug. 10-14, 2002. Maximum discharge for period of record and current water year from rating curve extended above 540 ft³/s based on culvert computation of peak flow. Minimum discharge for the current water year also occurred June 13, 18-21.

REVISIONS.--The maximum discharge for the water years 2000 and 2002 have been revised to 739 ft³/s, July 12, 2000, gage height, 4.98 ft and 700 ft³/s, Aug. 31, 2002, gage height, 4.88 ft superseding figures published in reports for 2000 and 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.60	0.61	e0.78	0.58	1.3	28	15	5.0	0.48	1.4	1.4	1.8
2	0.59	0.66	e0.75	0.60	1.3	14	2.9	17	0.37	0.80	1.8	0.94
3	0.58	0.74	0.83	0.60	18	5.2	1.8	2.8	0.34	1.7	1.2	0.79
4	0.59	0.82	3.0	0.69	2.1	3.4	1.6	1.2	0.56	0.87	0.89	0.65
5	0.69	1.0	2.7	4.9	1.6	2.7	1.4	1.0	0.36	17	0.82	0.61
6	0.71	1.2	1.1	1.7	50	2.5	1.4	0.88	0.39	4.6	0.73	0.82
7	0.79	1.3	0.79	0.68	16	2.1	1.4	0.78	0.41	0.92	0.61	127
8	8.9	2.9	0.75	0.61	4.0	2.4	1.4	0.74	2.9	0.73	0.59	131
9	2.5	0.99	0.70	1.8	2.5	2.3	1.2	0.71	3.3	0.62	0.54	7.4
10	0.86	0.91	32	0.89	1.8	2.3	1.1	0.64	0.91	0.58	0.50	2.3
11	17	0.97	4.4	0.72	1.6	1.9	1.1	0.61	0.37	2.1	0.99	1.4
12	1.1	0.91	0.97	0.82	23	1.8	4.0	0.65	0.32	2.0	e9.2	1.1
13	0.76	0.97	9.8	0.84	4.3	1.8	17	0.60	4.1	0.74	e74	0.99
14	0.70	1.1	34	0.83	6.2	1.7	2.6	0.53	9.0	0.58	52	1.1
15	0.85	1.2	2.9	0.89	10	3.2	1.6	0.52	3.5	0.54	5.5	0.96
16	0.86	1.2	1.2	0.79	5.9	5.9	1.3	0.52	1.9	0.53	1.6	0.98
17	0.82	1.3	8.2	0.75	2.6	2.1	1.1	0.51	0.59	101	0.91	41
18	0.88	1.4	1.5	4.0	2.1	e1.8	1.1	0.51	0.33	87	0.76	4.7
19	0.88	12	0.95	1.2	1.8	e2.3	1.1	0.51	0.32	2.2	0.65	1.6
20	0.88	1.4	0.76	0.94	1.6	2.0	1.1	0.48	0.32	0.95	0.60	1.1
21	0.92	0.83	0.60	0.94	1.7	e4.7	1.0	0.46	5.4	0.76	0.99	1.0
22	0.96	0.78	0.67	0.94	1.5	1.7	1.0	0.43	0.88	0.77	0.92	1.0
23	0.94	0.80	0.69	0.94	1.5	1.6	1.0	0.43	25	0.77	0.60	0.93
24	1.0	0.94	0.88	0.94	1.7	1.7	0.96	0.48	21	0.60	0.55	0.84
25	0.96	1.1	0.54	2.0	1.6	1.7	0.86	0.44	21	0.60	0.52	0.86
26	1.1	1.1	0.51	1.3	3.3	1.6	1.5	0.43	16	0.74	0.52	0.86
27	0.91	1.1	0.52	3.5	18	1.6	1.2	0.45	1.6	137	0.50	55
28	12	1.8	0.57	3.5	28	1.6	0.83	1.1	1.0	17	0.48	221
29	16	e0.81	0.60	2.1	23	1.4	0.78	0.53	0.88	39	15	6.9
30	1.0	e0.76	0.60	1.6	---	4.0	0.79	0.40	0.88	6.4	25	2.2
31	0.73	---	0.57	1.5	---	18	---	3.7	---	2.0	22	---
TOTAL	78.06	43.60	114.83	44.09	238.0	129.0	71.12	45.04	124.41	432.50	222.37	618.83
MEAN	2.52	1.45	3.70	1.42	8.21	4.16	2.37	1.45	4.15	14.0	7.17	20.6
MAX	17	12	34	4.9	50	28	17	17	25	137	74	221
MIN	0.58	0.61	0.51	0.58	1.3	1.4	0.78	0.40	0.32	0.53	0.48	0.61
CFSM	0.45	0.26	0.66	0.25	1.47	0.74	0.42	0.26	0.74	2.49	1.28	3.68
IN.	0.52	0.29	0.76	0.29	1.58	0.86	0.47	0.30	0.83	2.87	1.48	4.11

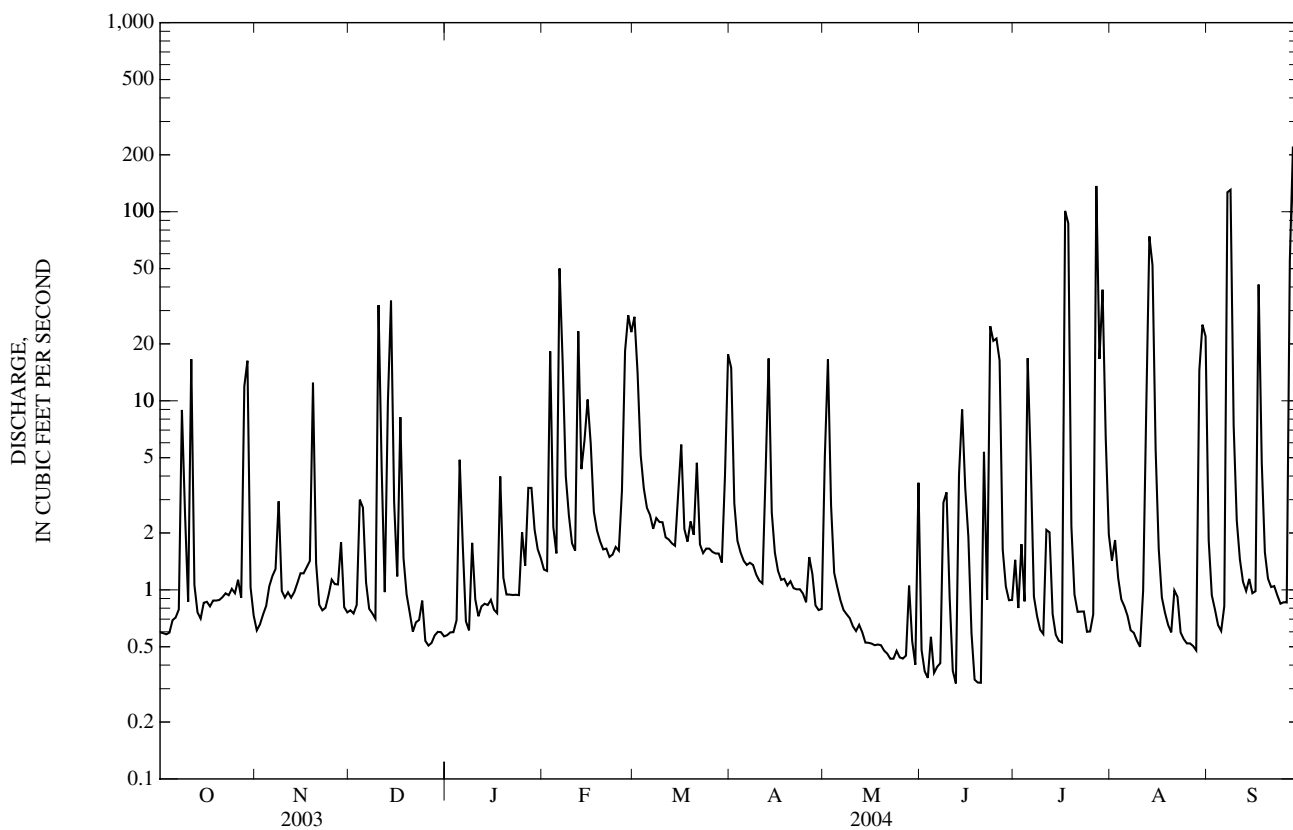
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	4.25	2.94	4.68	5.14	6.72	9.70	7.10	5.70	7.99	6.92	4.78	8.27
MEAN	4.25	2.94	4.68	5.14	6.72	9.70	7.10	5.70	7.99	6.92	4.78	8.27
MAX	10.5	5.92	12.9	9.34	9.89	21.1	20.4	17.6	29.2	14.0	7.37	20.6
(WY)	(2000)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2002)	(2004)
MIN	0.54	0.83	1.90	1.42	2.69	4.16	1.88	1.45	1.05	1.09	0.98	1.47
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2004)	(2002)	(2004)	(2002)	(2002)	(2001)	(2003)

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	3,959.01		2,161.85		6.33	
ANNUAL MEAN	10.8		5.91		3.39	
HIGHEST ANNUAL MEAN					12.3	2003
LOWEST ANNUAL MEAN					3.39	2002
HIGHEST DAILY MEAN	439	Jun 7	221	Sep 28	439	Jun 7, 2003
LOWEST DAILY MEAN	0.51	Dec 26	0.32	Jun 12	0.00	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	0.56	Dec 25	0.42	Jun 1	0.00	Aug 8, 2002
MAXIMUM PEAK FLOW			2,180	Jul 17	3,870*	Jun 7, 2003
MAXIMUM PEAK STAGE			7.04	Jul 17	9.66	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.28*	Jun 12	0.00*	Aug 8, 2002
ANNUAL RUNOFF (CFSM)	1.94		1.05		1.13	
ANNUAL RUNOFF (INCHES)	26.30		14.36		15.35	
10 PERCENT EXCEEDS	17		14		11	
50 PERCENT EXCEEDS	2.5		1.1		1.3	
90 PERCENT EXCEEDS	0.77		0.54		0.29	

* See REMARKS.
e Estimated.



0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC

LOCATION.--Lat 35°09'31", long 80°42'48", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Secondary Road 3168, 4.0 mi southwest of Mint Hill.

DRAINAGE AREA.--8.37 mi².

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 612.56 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 500 ft³/s, which are poor. Maximum discharge for current water year and period of record from rating curve extended above 500 ft³/s by step-backwater and culvert analysis. No flow also occurred Aug. 14-15, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	1.2	1.5	e3.4	61	e9.1	2.8	0.66	0.81	1.5	1.2
2	1.2	1.2	1.1	1.6	e7.0	42	e3.4	4.4	0.66	0.79	7.1	1.0
3	1.1	1.3	1.1	1.4	15	10	2.7	2.7	0.80	0.78	2.8	0.83
4	1.1	1.2	1.2	1.7	4.2	6.2	2.5	2.4	0.79	0.72	1.6	0.73
5	1.0	1.3	1.8	1.9	3.5	4.8	2.3	2.1	e0.70	9.8	9.5	0.70
6	1.0	1.3	1.4	1.7	69	4.4	2.4	1.9	e0.54	3.5	2.5	0.68
7	1.7	1.3	1.3	1.6	19	3.8	2.1	1.7	0.57	0.82	1.2	274
8	2.8	1.4	1.3	1.8	5.1	3.5	2.1	1.5	0.75	0.57	1.3	196
9	2.0	1.3	1.3	2.1	3.7	3.3	2.0	1.4	1.4	0.54	1.2	6.7
10	1.4	1.3	17	1.9	3.4	3.4	1.8	1.2	0.67	0.47	1.2	2.7
11	9.0	1.4	5.3	1.7	3.2	3.1	1.8	1.1	0.61	2.4	1.3	2.0
12	1.7	1.3	1.9	e1.6	19	3.1	2.4	1.1	0.55	2.4	6.0	1.7
13	1.4	1.3	2.2	e1.7	6.5	2.9	8.6	1.1	0.86	0.63	58	1.4
14	1.3	1.3	23	e1.7	6.0	2.8	3.3	0.94	1.2	0.51	62	1.4
15	1.4	1.4	3.2	e2.0	8.4	2.9	2.3	0.76	1.9	0.42	4.3	1.3
16	1.3	1.3	1.9	e1.7	6.2	3.9	2.0	0.69	1.2	0.38	2.0	1.2
17	1.3	1.3	3.9	e1.5	4.3	3.1	1.9	0.66	0.94	38	1.3	34
18	1.3	1.2	2.2	4.7	3.9	3.0	1.8	0.66	0.61	74	1.1	4.1
19	1.3	4.1	1.7	e2.7	3.7	3.1	1.7	0.65	0.60	1.7	1.2	1.9
20	1.4	1.7	1.6	e2.1	3.6	2.8	1.7	0.66	0.53	1.1	1.3	1.6
21	1.3	1.5	1.4	e2.0	3.7	4.7	e1.6	0.63	1.4	0.86	1.2	1.4
22	1.1	1.3	1.5	e2.1	3.8	3.0	e1.7	0.65	0.90	0.72	1.2	1.3
23	1.1	1.3	1.5	e2.1	4.0	2.7	1.6	0.59	21	0.69	1.1	1.3
24	1.1	1.2	1.9	e2.0	e4.2	2.7	1.6	0.75	26	0.60	0.97	1.2
25	1.1	1.2	1.5	e3.1	e4.2	2.6	1.5	0.59	18	0.52	0.87	1.2
26	1.4	1.5	1.4	e2.7	5.1	2.6	1.6	0.62	8.0	0.49	0.84	1.2
27	e1.7	1.2	1.4	e3.5	10	2.5	1.7	0.67	2.3	31	1.5	72
28	e7.0	1.2	1.3	e4.8	14	2.5	1.5	0.60	1.3	6.3	1.1	544
29	9.4	1.3	1.3	e7.9	26	2.5	1.5	0.58	1.1	82	3.1	8.6
30	1.6	1.2	1.3	e3.9	---	3.2	1.6	0.55	0.92	4.2	2.1	3.6
31	1.3	---	1.3	e3.5	---	6.4	---	0.82	---	1.9	1.9	---
TOTAL	64.1	42.1	91.4	76.2	273.1	208.5	73.8	37.47	97.46	269.62	184.28	1,170.94
MEAN	2.07	1.40	2.95	2.46	9.42	6.73	2.46	1.21	3.25	8.70	5.94	39.0
MAX	9.4	4.1	23	7.9	69	61	9.1	4.4	26	82	62	544
MIN	1.0	1.2	1.1	1.4	3.2	2.5	1.5	0.55	0.53	0.38	0.84	0.68
CFSM	0.25	0.17	0.35	0.29	1.13	0.80	0.29	0.14	0.39	1.04	0.71	4.66
IN.	0.28	0.19	0.41	0.34	1.21	0.93	0.33	0.17	0.43	1.20	0.82	5.20

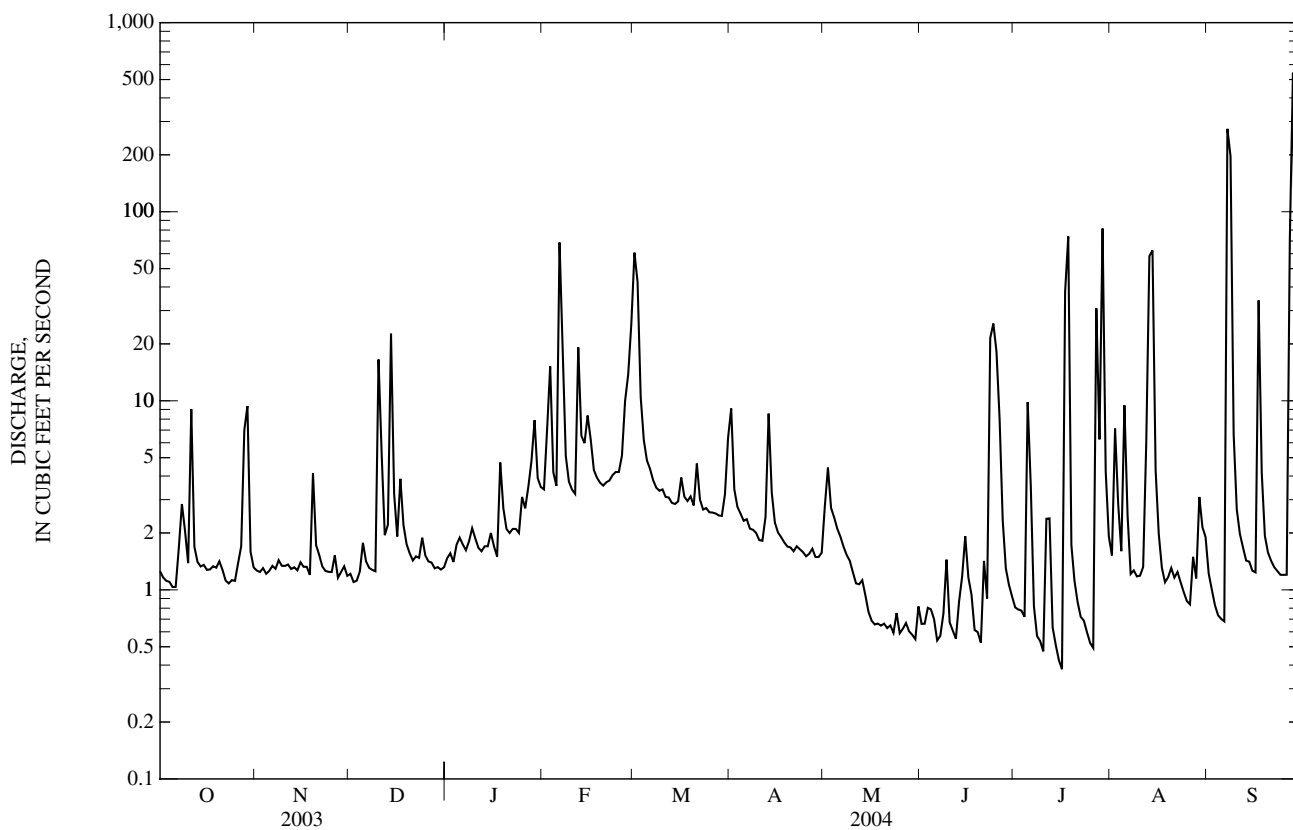
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	3.77	2.51	4.45	4.64	8.27	12.1	11.2	8.01	10.9	5.26	3.82	8.85
MAX	10.1	7.71	15.2	7.87	13.6	32.1	42.7	33.0	56.2	17.7	10.3	39.0
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.37	0.12	0.79	2.13	2.32	5.24	2.35	1.21	0.44	0.08	0.21	1.22
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2004)	(2002)	(2002)	(2001)	(2002)

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	6,649.4		2,588.97		7.31	
ANNUAL MEAN	18.2		7.07		2.16	
HIGHEST ANNUAL MEAN					20.1	2003
LOWEST ANNUAL MEAN					2.16	2002
HIGHEST DAILY MEAN	531	Jun 7	544	Sep 28	544	Sep 28, 2004
LOWEST DAILY MEAN	1.0	Oct 5	0.38	Jul 16	0.00	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 30	0.62	May 24	0.01	Aug 9, 2002
MAXIMUM PEAK FLOW			2,540*	Sep 28	2,670*	Jun 18, 2003
MAXIMUM PEAK STAGE			10.10	Sep 28	10.27	Jun 18, 2003
INSTANTANEOUS LOW FLOW			0.24	Jul 17	0.00*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	2.18		0.845		0.874	
ANNUAL RUNOFF (INCHES)	29.55		11.51		11.87	
10 PERCENT EXCEEDS	25		7.3		9.6	
50 PERCENT EXCEEDS	4.1		1.6		1.5	
90 PERCENT EXCEEDS	1.3		0.70		0.18	

* See REMARKS.
e Estimated.



02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'16", long 80°46'03", Mecklenburg County, Hydrologic Unit 03050103, near left bank on downstream end of bridge pier at Sardis Road (Secondary Road 3356), 1.7 mi downstream of Irvins Creek, and 7 mi southeast of city hall, Charlotte.

DRAINAGE AREA.--39.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1962 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-99-00-1B: Instantaneous low flow period of record.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 552.36 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. No flow for part of Nov. 15, 1972, result of upstream construction, and Aug. 14, 15, 2002. Minimum discharge for current water year also occurred July 17.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of about 14.0 ft, from floodmarks; discharge, 4,150 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.1	5.3	4.9	5.3	234	79	17	5.7	5.8	7.9	11
2	4.9	5.7	5.3	5.1	5.2	199	21	55	3.8	5.0	18	7.2
3	4.5	5.7	5.2	5.1	87	51	16	21	3.2	9.1	19	6.2
4	4.8	5.8	6.8	5.1	13	27	14	9.7	4.8	7.9	7.5	5.2
5	4.2	6.0	17	10	7.7	20	12	7.9	4.4	37	8.7	4.7
6	4.1	5.9	7.5	12	305	17	11	7.1	3.1	60	9.9	5.7
7	7.0	5.9	6.9	5.3	134	15	11	6.1	3.0	6.2	4.4	996
8	56	7.9	6.0	4.9	28	14	11	5.8	8.7	4.8	3.6	1,220
9	22	7.1	5.8	8.2	18	13	10	5.5	23	4.3	3.4	55
10	7.4	5.6	e99	7.4	16	13	9.7	5.2	10	4.1	3.2	20
11	116	5.7	e153	5.4	13	12	9.4	4.9	4.0	158	4.3	13
12	12	5.6	e23	5.2	124	11	17	5.1	3.2	69	79	11
13	7.3	5.1	e17	5.2	35	11	75	5.3	40	8.7	439	9.0
14	6.4	4.7	e182	5.1	35	11	22	5.2	16	5.0	396	9.7
15	6.1	4.7	e44	5.0	52	12	13	4.8	21	3.1	48	9.0
16	5.4	5.3	9.4	4.7	36	30	11	4.8	26	2.3	17	9.5
17	5.1	5.4	37	4.8	19	16	10	4.6	9.5	127	10	220
18	5.2	5.5	12	12	16	13	9.2	4.5	4.9	715	8.0	40
19	5.0	56	8.0	7.8	14	17	9.1	4.4	3.7	18	7.2	13
20	5.0	13	6.4	5.3	13	12	9.8	4.1	2.9	8.5	6.4	9.4
21	4.8	6.7	5.8	4.9	12	34	8.3	4.0	44	e6.1	11	8.0
22	5.0	5.9	5.8	5.1	11	13	8.0	3.6	17	e5.4	13	7.2
23	4.7	5.6	5.7	5.0	11	11	8.9	5.5	199	4.0	6.0	6.7
24	4.2	5.4	8.6	4.9	11	11	7.4	4.6	215	3.6	5.7	6.4
25	4.1	5.4	5.9	6.5	11	11	6.9	3.4	138	3.0	5.5	6.1
26	5.5	5.7	5.2	7.4	14	11	7.8	3.3	100	2.9	4.4	5.9
27	6.0	5.9	5.1	8.4	64	11	10	3.4	15	491	5.6	160
28	31	6.1	5.1	12	122	10	6.9	3.3	9.7	116	5.5	2,010
29	112	6.9	5.4	8.7	141	10	7.0	3.8	6.9	311	58	64
30	11	5.3	5.3	6.7	---	19	6.7	3.2	5.7	32	63	26
31	7.3	---	4.9	5.9	---	67	---	11	---	12	108	---
TOTAL	489.1	231.6	719.4	204.0	1,373.2	956	458.1	237.1	951.2	2,245.8	1,386.2	4,974.9
MEAN	15.8	7.72	23.2	6.58	47.4	30.8	15.3	7.65	31.7	72.4	44.7	166
MAX	116	56	182	12	305	234	79	55	215	715	439	2,010
MIN	4.1	4.7	4.9	4.7	5.2	10	6.7	3.2	2.9	2.3	3.2	4.7
CFSM	0.40	0.19	0.59	0.17	1.20	0.78	0.39	0.19	0.80	1.83	1.13	4.19
IN.	0.46	0.22	0.68	0.19	1.29	0.90	0.43	0.22	0.89	2.11	1.30	4.67

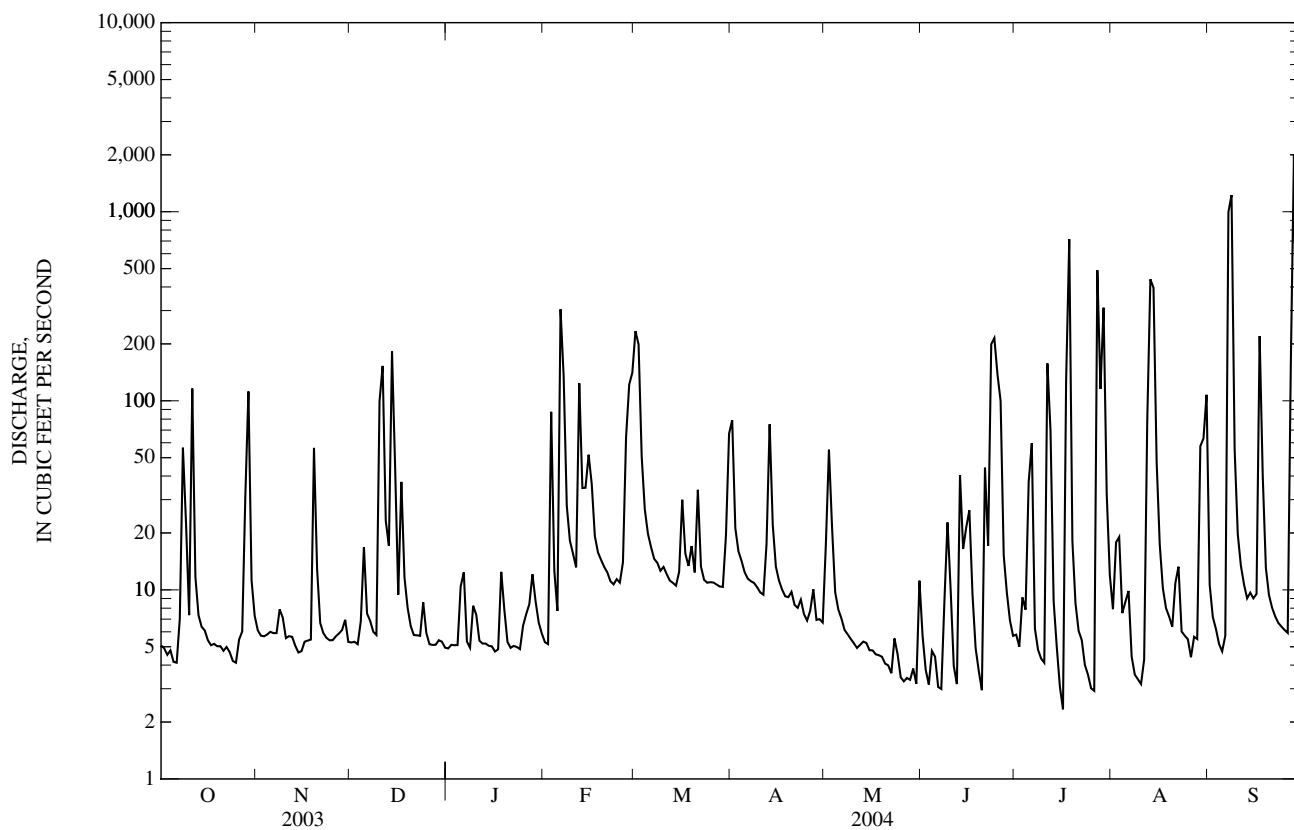
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	33.1	28.7	38.9	64.7	72.2	81.6	50.1	33.8	33.0	30.5	33.2	27.1
MAX	212	109	128	157	169	200	182	173	200	140	178	166
(WY)	(1991)	(1986)	(1984)	(1978)	(1979)	(1977)	(2003)	(1975)	(2003)	(1997)	(1994)	(2004)
MIN	3.16	3.11	7.55	6.58	16.9	13.6	7.45	7.65	3.60	4.04	3.42	1.46
(WY)	(1963)	(2002)	(1966)	(2004)	(1968)	(1985)	(1967)	(2004)	(1986)	(1977)	(1968)	(1968)

02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	29,207.7		14,226.6		43.9	
ANNUAL MEAN	80.0		38.9		18.9	
HIGHEST ANNUAL MEAN					90.5	2003
LOWEST ANNUAL MEAN					18.9	2001
HIGHEST DAILY MEAN	1,930	Apr 10	2,010	Sep 28	4,490	Aug 27, 1995
LOWEST DAILY MEAN	4.1	Oct 6	2.3	Jul 16	0.01	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	4.7	Oct 19	3.6	May 24	0.08	Aug 8, 2002
MAXIMUM PEAK FLOW			4,650	Sep 28	9,040	Aug 27, 1995
MAXIMUM PEAK STAGE			14.11	Sep 28	17.79	Aug 27, 1995
INSTANTANEOUS LOW FLOW			2.2*	Jul 16	0.00*	Nov 15, 1972
ANNUAL RUNOFF (CFSM)	2.02		0.982		1.11	
ANNUAL RUNOFF (INCHES)	27.44		13.36		15.05	
10 PERCENT EXCEEDS	159		65		75	
50 PERCENT EXCEEDS	20		7.9		13	
90 PERCENT EXCEEDS	5.5		4.4		3.8	

* See REMARKS.
e Estimated.



02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC—Continued

PRECIPITATION RECORDS

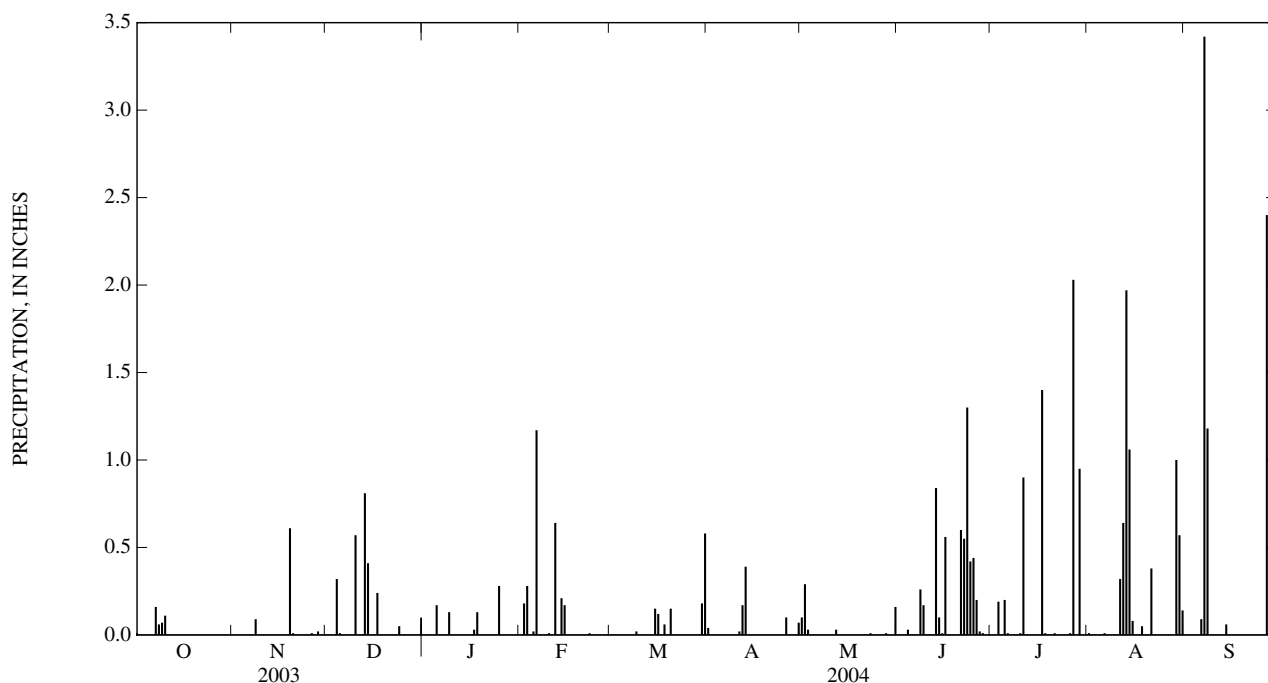
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.00	0.00	0.01	0.00
2	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.29	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.03	0.00	0.19	0.00	0.00
4	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
5	0.00	0.00	0.01	0.17	0.02	0.00	0.00	0.00	0.00	0.20	0.00	0.00
6	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.01	0.01	0.09
7	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42
8	0.06	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	1.18
9	0.07	0.00	0.00	0.13	0.00	0.02	0.00	0.00	0.17	0.00	0.00	0.00
10	0.11	0.00	0.57	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	---	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.90	0.32	0.00
12	---	0.00	0.00	0.00	0.64	0.00	0.17	0.03	0.00	0.00	0.64	0.00
13	---	0.00	0.81	0.00	0.00	0.00	0.39	0.00	0.84	0.00	1.97	0.00
14	---	0.00	0.41	0.00	0.21	0.00	0.00	0.00	0.10	0.00	1.06	0.06
15	---	0.00	0.00	0.00	0.17	0.15	0.00	0.00	0.01	0.00	0.08	0.00
16	---	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.56	0.00	0.00	0.00
17	---	0.00	0.24	0.03	0.00	0.00	0.00	0.00	0.00	1.40	0.00	---
18	---	0.00	0.00	0.13	0.00	0.06	0.00	0.00	0.00	0.01	0.05	0.00
19	---	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	---	0.01	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.01	0.38	0.00
22	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00
23	---	0.00	0.00	0.00	0.01	0.00	0.00	0.01	1.30	0.00	0.00	0.00
24	---	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00
25	---	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
26	---	0.01	0.00	0.00	---	0.00	0.10	0.00	0.20	0.01	0.00	0.00
27	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.03	0.00	2.40
28	---	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	1.23
29	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	1.00	0.00
30	0.00	0.00	0.00	0.00	---	0.18	0.07	0.00	0.00	0.00	0.57	0.00
31	0.00	---	0.00	0.00	---	0.58	---	0.16	---	0.00	0.14	---
TOTAL	---	0.74	2.41	0.74	---	1.26	0.79	0.63	5.51	5.72	6.23	---



02146670 FOUR MILE CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'37", long 80°49'21", Mecklenburg County, Hydrologic Unit 03050103, on left bank on downstream side of bridge at Elm Lane W. (Secondary Road 3649), 0.5 mi south of State Highway 51, 1.25 mi upstream of McAlpine Creek, and 4.5 mi east of U.S. Highway 521 at Pineville.

DRAINAGE AREA.--17.8 mi².

PERIOD OF RECORD.-- July 1997 to September 2003 (daily discharges), October 2003 to current year.

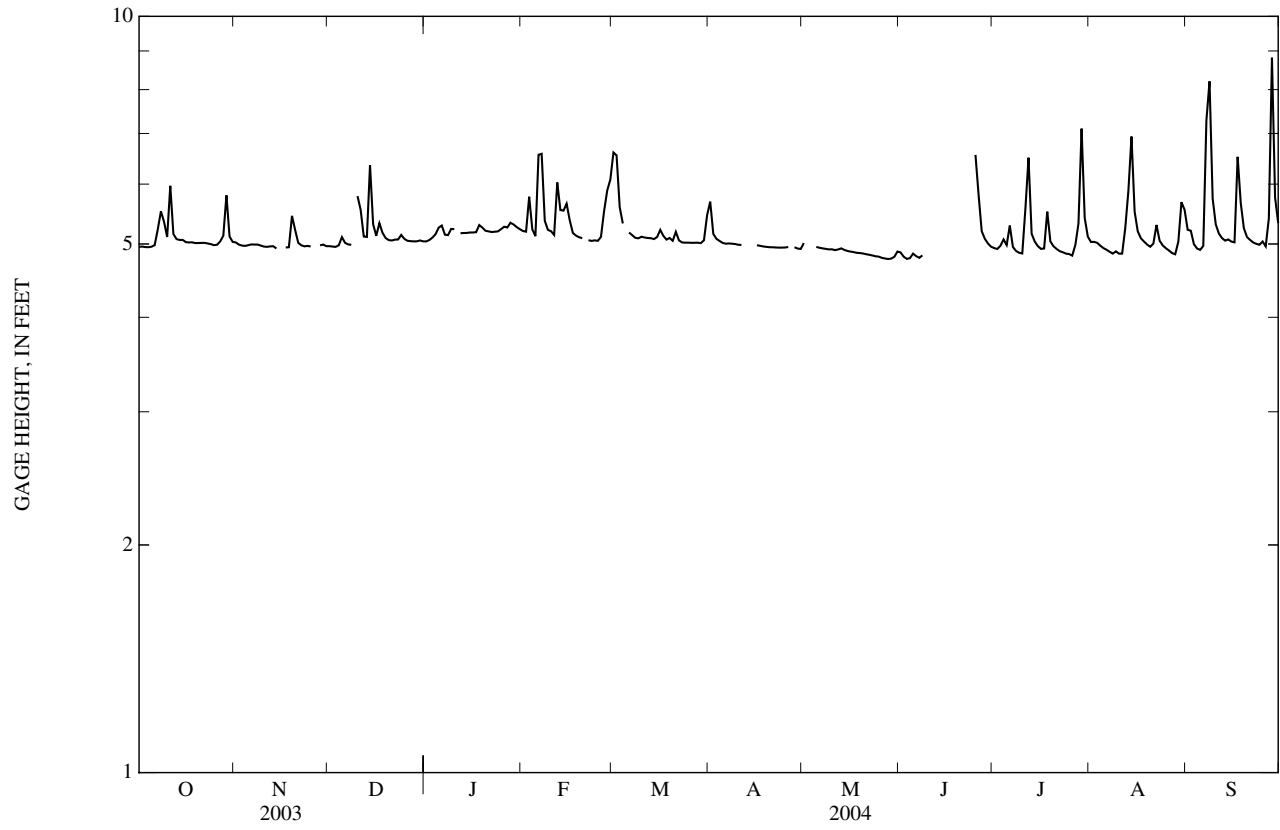
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 528.69 ft above North American Vertical Datum of 1988 (City of Charlotte bench mark). Radio telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 11.58 ft, July 27, 1998; minimum, 2.74 ft, July 18, 19, 2001.

EXTREMES FOR CURRENT WATER YEAR.--Maximum, 11.00 ft, Sept. 28; minimum 4.76, May 28, June 3, 4.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.96	5.02	4.97	5.04	5.20	6.61	5.69	5.01	4.87	4.94	5.03	5.22
2	4.96	4.99	4.96	5.06	5.19	6.55	5.16	---	4.81	4.92	5.03	5.21
3	4.95	4.98	4.96	5.10	5.77	5.59	5.08	---	4.78	4.97	5.02	5.00
4	4.95	4.97	4.98	5.15	5.23	5.32	5.05	---	4.79	5.07	4.97	4.93
5	4.96	4.98	5.11	5.25	5.12	---	5.02	4.96	4.86	4.98	4.94	4.91
6	4.98	4.99	5.02	5.29	6.56	5.18	5.00	4.94	4.82	5.29	4.91	4.97
7	5.23	4.99	4.99	5.14	6.58	5.14	5.01	4.93	4.79	4.95	4.88	7.29
8	5.52	4.99	4.99	5.14	5.37	5.09	5.00	4.93	4.83	4.89	4.86	8.21
9	5.35	4.98	---	5.24	5.22	5.09	5.00	4.92	---	4.87	4.89	5.74
10	5.11	4.96	5.78	5.23	5.20	5.11	4.99	4.92	---	4.86	4.86	5.31
11	5.97	4.96	5.55	---	5.14	5.10	4.99	4.91	---	5.57	4.86	5.16
12	5.15	4.96	5.12	5.17	6.03	5.09	---	4.92	---	6.50	5.25	5.09
13	5.08	4.97	5.11	5.17	5.54	5.09	---	4.93	---	5.16	5.88	5.05
14	5.06	4.93	6.36	5.17	5.53	5.08	---	4.91	---	5.04	6.94	5.07
15	5.06	---	5.31	5.18	5.65	5.11	---	4.89	---	4.97	5.52	5.04
16	5.03	---	5.13	5.18	5.37	5.22	4.98	4.89	---	4.93	5.20	5.03
17	5.02	4.95	5.33	5.18	5.17	5.12	4.97	4.88	---	4.93	5.09	6.52
18	5.03	4.95	5.17	5.30	5.13	5.07	4.96	4.87	---	5.52	5.04	5.66
19	5.01	5.45	5.09	5.26	5.10	5.09	4.96	4.86	---	5.04	4.99	5.25
20	5.01	5.22	5.06	5.21	5.09	5.05	4.95	4.86	---	4.97	4.96	5.11
21	5.02	5.02	5.05	5.20	---	5.19	4.95	4.85	---	4.92	5.01	5.06
22	5.02	4.98	5.07	5.19	5.06	5.05	4.95	4.84	---	4.89	5.30	5.02
23	5.01	4.96	5.07	5.19	5.05	5.02	4.94	4.83	---	4.88	5.05	5.00
24	5.00	4.97	5.14	5.20	5.06	5.02	4.95	4.82	---	4.86	4.98	4.99
25	4.98	4.96	5.08	5.23	5.05	5.02	4.95	4.81	6.56	4.85	4.94	5.04
26	4.99	---	5.05	5.27	5.11	5.02	4.95	4.79	5.80	4.83	4.90	4.96
27	5.04	---	5.04	5.26	5.52	5.02	---	4.78	5.20	4.98	4.86	5.41
28	5.13	4.98	5.04	5.33	5.88	5.02	4.95	4.78	5.08	5.32	4.85	8.82
29	5.80	4.99	5.04	5.31	6.08	5.01	4.93	4.78	5.01	7.10	5.03	5.76
30	5.11	4.97	5.05	5.26	---	5.06	4.92	4.81	4.96	5.41	5.68	5.33
31	5.03	---	5.04	5.23	---	5.46	---	4.89	---	5.11	5.55	---
MEAN	5.11	5.00	5.16	5.20	5.43	5.22	5.01	4.88	5.08	5.15	5.14	5.51
MAX	5.97	5.45	6.36	5.33	6.58	6.61	5.69	5.01	6.56	7.10	6.94	8.82
MIN	4.95	4.93	4.96	5.04	5.05	5.01	4.92	4.78	4.78	4.83	4.85	4.91



02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'27", long 80°49'12", Mecklenburg County, Hydrologic Unit 03050103, on left bank downstream of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi south of Queens College, Charlotte, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--6.95 mi².

PERIOD OF RECORD.--April 1962 to current year.

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

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 592.31 ft above North American Vertical of 1988. Prior to Oct. 13, 1970, at site 73 ft upstream at same datum. Oct. 13, 1970, to Dec. 30, 1971, at site 154 ft downstream at 590.91 ft above NGVD of 1929. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for the current water year also occurred Oct. 3, 4, 25, 26. Maximum discharge for period of record from rating curve extended above 2,650 ft³/s on basis of computation of peak flow through culvert. No flow occurred periodically from 1962 to 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of 7.5 ft, former site and datum, from floodmarks; discharge, 1,040 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.58	0.64	0.60	1.2	1.3	36	12	9.0	1.2	1.6	1.1	1.8
2	0.50	0.57	0.58	1.1	1.8	20	2.7	21	0.69	1.3	1.9	1.1
3	0.40	0.55	0.55	1.1	17	5.6	2.0	3.2	0.58	5.5	1.9	0.94
4	0.44	0.61	2.2	1.3	2.0	3.6	1.6	1.4	0.97	2.2	1.0	0.83
5	0.69	0.76	2.7	4.9	1.6	2.9	1.4	1.0	0.86	1.6	0.80	0.75
6	0.72	0.85	0.71	2.4	74	2.6	1.5	1.3	0.66	3.2	0.66	0.96
7	1.2	0.86	0.60	1.1	8.9	2.3	1.5	0.98	0.58	0.96	0.59	219
8	15	2.0	0.54	1.1	2.7	2.0	1.6	0.94	1.9	0.82	0.59	166
9	2.3	0.71	0.49	2.7	2.0	2.0	1.4	0.84	16	0.74	0.62	5.2
10	0.87	0.47	30	1.6	1.7	2.1	1.4	0.86	2.7	0.68	0.53	2.1
11	25	0.52	2.9	1.1	1.6	1.7	1.4	0.83	1.1	11	3.3	1.6
12	1.1	0.56	0.72	1.1	24	2.0	3.7	2.7	0.78	1.9	23	1.3
13	0.77	0.65	14	1.1	3.1	1.6	18	1.3	22	0.89	48	1.2
14	0.76	0.51	29	1.1	6.7	1.7	2.4	0.90	6.3	0.76	39	1.5
15	0.70	0.69	1.9	1.2	7.3	2.6	1.7	0.83	3.2	0.75	4.2	1.2
16	0.61	0.70	0.96	1.0	3.5	5.4	1.5	1.1	14	0.83	1.7	1.2
17	0.65	0.69	8.3	1.0	2.0	2.0	1.4	1.2	2.4	47	1.2	82
18	0.58	0.62	1.3	4.2	1.8	2.5	1.4	1.0	1.1	70	1.1	4.2
19	0.57	11	0.82	1.6	1.8	2.4	1.5	0.89	0.87	1.7	1.1	1.7
20	0.57	1.3	0.65	1.1	1.7	2.0	1.4	0.99	1.1	1.1	0.94	1.5
21	0.59	0.66	0.58	1.1	1.9	6.6	1.3	1.1	15	0.92	4.1	2.1
22	0.70	0.59	e0.43	1.1	1.5	1.7	1.3	1.3	7.2	0.91	2.6	1.7
23	0.66	0.58	e0.43	1.3	1.4	1.4	1.4	1.5	72	0.81	0.97	1.3
24	0.89	0.73	1.1	1.3	1.5	1.5	1.4	1.6	45	0.77	1.1	1.1
25	0.55	0.69	0.88	2.3	1.4	1.4	1.1	0.74	36	0.71	0.99	1.1
26	0.76	0.63	0.84	1.9	3.0	1.4	1.4	0.79	17	0.77	0.73	1.3
27	0.77	0.56	0.82	3.1	13	1.5	1.9	0.76	2.1	112	0.60	75
28	11	0.97	0.85	3.5	25	1.6	1.1	0.75	1.5	5.7	0.61	182
29	16	1.0	0.88	2.3	25	1.7	1.2	0.89	1.2	43	20	4.4
30	1.1	0.59	1.1	1.6	---	3.7	1.1	0.74	1.8	2.4	57	2.6
31	0.62	---	1.1	1.4	---	17	---	3.2	---	1.4	22	---
TOTAL	87.65	32.26	108.53	53.9	240.2	142.5	74.7	65.63	277.79	323.92	243.93	768.68
MEAN	2.83	1.08	3.50	1.74	8.28	4.60	2.49	2.12	9.26	10.4	7.87	25.6
MAX	25	11	30	4.9	74	36	18	21	72	112	57	219
MIN	0.40	0.47	0.43	1.0	1.3	1.4	1.1	0.74	0.58	0.68	0.53	0.75
CFSM	0.41	0.15	0.50	0.25	1.19	0.66	0.36	0.30	1.33	1.50	1.13	3.69
IN.	0.47	0.17	0.58	0.29	1.29	0.76	0.40	0.35	1.49	1.73	1.31	4.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

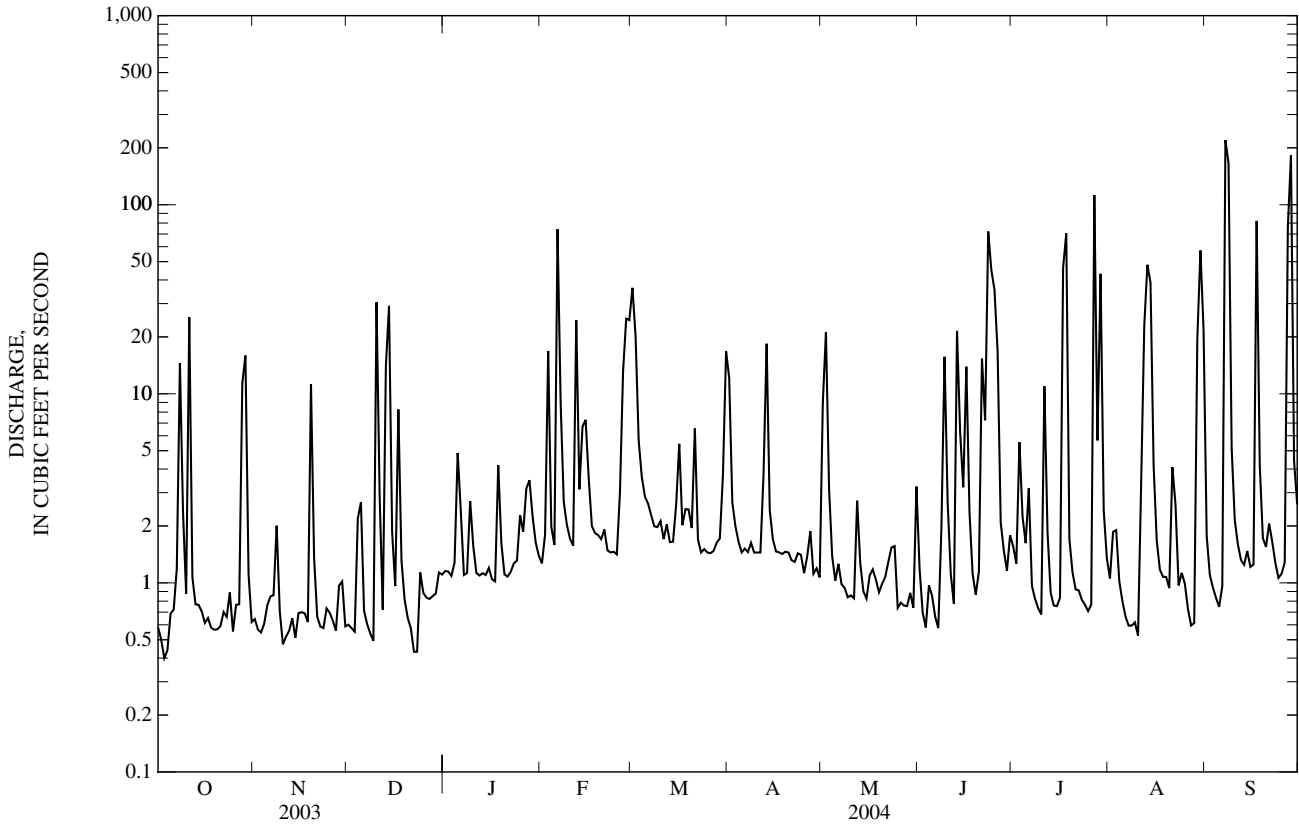
MEAN	6.10	5.63	7.59	12.1	13.0	14.8	8.11	6.91	7.24	6.55	5.99	6.01
MAX	30.4	21.3	24.3	33.5	28.1	38.8	31.9	38.2	37.5	27.7	32.1	25.6
(WY)	(1991)	(1986)	(1977)	(1978)	(1979)	(1977)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	0.21	0.54	0.86	1.02	1.77	1.74	1.13	1.08	0.75	0.61	0.24	0.08
(WY)	(1964)	(1970)	(1966)	(1981)	(1968)	(1985)	(1981)	(1962)	(1966)	(1963)	(1968)	(1970)

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	5,439.20		2,419.69		8.34	
ANNUAL MEAN	14.9		6.61		3.19	
HIGHEST ANNUAL MEAN					17.4	2003
LOWEST ANNUAL MEAN					3.19	1970
HIGHEST DAILY MEAN	377	Jun 7	219	Sep 7	868	Aug 27, 1995
LOWEST DAILY MEAN	0.40	Oct 3	0.40	Oct 3	0.00	Aug 31, 1962
ANNUAL SEVEN-DAY MINIMUM	0.52	Sep 29	0.59	Nov 10	0.01	Sep 19, 1968
MAXIMUM PEAK FLOW			1,150	Sep 8	3,470*	Aug 27, 1995
MAXIMUM PEAK STAGE			6.98	Sep 8	11.03	Aug 27, 1995
INSTANTANEOUS LOW FLOW			0.36*	Oct 2	0.00*	Aug 31, 1962
ANNUAL RUNOFF (CFSM)	2.14		0.951		1.20	
ANNUAL RUNOFF (INCHES)	29.11		12.95		16.30	
10 PERCENT EXCEEDS	30		15		15	
50 PERCENT EXCEEDS	2.8		1.3		1.6	
90 PERCENT EXCEEDS	0.62		0.61		0.33	

* See REMARKS.

e Estimated.



02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'00", long 80°52'12", Mecklenburg County, Hydrologic Unit, 03050103, on right bank at McAlpine Creek Wastewater Treatment Plant of Charlotte, 150 ft downstream of McMullen Creek, 735 ft upstream from effluent outfall, and 2.1 mi south of Pineville.

DRAINAGE AREA.--92.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 515.51 above North American Vertical Datum of 1988. Prior to Oct. 1, 1977, present site at 516.51 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Records for periods of heavy overbank flow may be affected by variable backwater not adequately defined. Maximum stage for period of record from high-water mark in gage house. Maximum discharge for period of record from rating curve extended above 11,600 ft³/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1964, about 12.9 ft. (former datum), Apr. 1, 1973, from information by wastewater treatment plant operator.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	20	15	15	17	515	211	25	16	17	22	38
2	13	17	15	15	15	821	47	86	6.6	16	18	27
3	12	16	14	16	178	177	32	51	5.3	27	34	15
4	12	16	17	16	44	74	27	21	e5.2	31	17	12
5	11	16	41	23	25	52	24	16	7.6	17	13	10
6	13	17	23	45	419	46	22	14	6.4	83	18	16
7	35	16	17	20	1,070	40	22	13	5.2	19	11	813
8	107	18	16	16	95	34	21	12	24	12	8.5	3,530
9	130	21	15	22	54	30	21	11	48	10	8.1	545
10	35	16	199	27	45	31	19	11	49	9.2	7.6	58
11	300	15	300	18	39	27	19	10	12	40	9.8	37
12	50	17	38	16	269	27	25	11	7.4	473	135	28
13	26	14	34	16	121	25	120	12	89	33	358	22
14	21	13	535	15	84	24	62	10	43	18	1,440	20
15	20	14	98	16	132	26	27	9.1	35	12	342	18
16	17	14	39	15	98	52	22	8.5	84	9.7	49	18
17	15	16	81	14	48	39	20	9.6	57	9.1	27	835
18	15	15	52	27	40	27	19	8.7	15	1,030	20	355
19	15	101	30	28	36	32	18	7.6	11	79	17	44
20	15	74	25	17	33	25	17	6.9	7.4	22	15	27
21	15	25	21	15	31	54	16	6.5	112	15	26	22
22	14	19	20	15	29	29	14	6.7	74	13	50	18
23	13	17	20	15	28	23	13	6.5	228	12	20	16
24	12	17	23	14	27	21	14	8.6	688	9.9	14	15
25	13	16	22	17	27	21	13	6.5	648	8.3	13	14
26	14	16	18	24	31	20	15	5.1	382	8.5	e12	14
27	18	15	17	20	113	20	19	5.1	61	224	e11	83
28	37	16	17	33	241	20	14	5.2	31	772	10	3,200
29	257	19	17	29	349	19	12	4.9	23	702	36	649
30	42	16	17	22	---	23	12	5.9	18	301	216	71
31	24	---	17	19	---	125	---	13	---	34	266	---
TOTAL	1,334	642	1,813	620	3,738	2,499	937	427.4	2,799.1	4,066.7	3,244.0	10,570
MEAN	43.0	21.4	58.5	20.0	129	80.6	31.2	13.8	93.3	131	105	352
MAX	300	101	535	45	1,070	821	211	86	688	1,030	1,440	3,530
MIN	11	13	14	14	15	19	12	4.9	5.2	8.3	7.6	10
CFSM	0.47	0.23	0.63	0.22	1.39	0.87	0.34	0.15	1.01	1.42	1.13	3.81
IN.	0.54	0.26	0.73	0.25	1.50	1.01	0.38	0.17	1.13	1.64	1.31	4.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

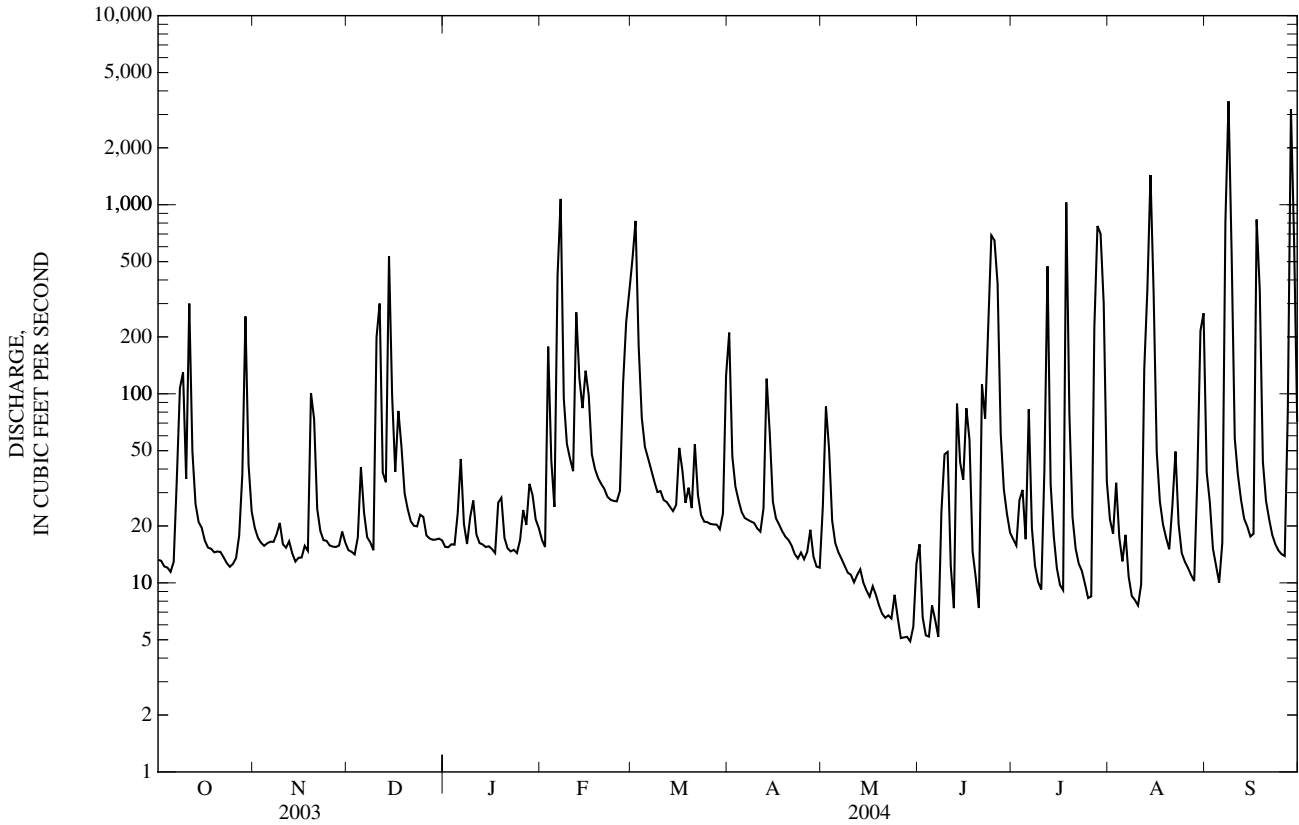
MEAN	97.3	100	124	216	208	243	131	98.4	85.6	93.3	103	92.1
MAX	540	414	497	550	506	544	439	428	466	400	597	510
(WY)	(1991)	(1986)	(1984)	(1978)	(1984)	(1980)	(2003)	(2003)	(2003)	(1997)	(1994)	(1987)
MIN	6.82	8.44	24.0	18.6	39.0	35.8	21.9	13.8	7.43	7.07	7.95	5.03
(WY)	(1979)	(2002)	(1981)	(1981)	(1978)	(1981)	(1981)	(2004)	(1986)	(1977)	(2001)	(1983)

02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL TOTAL	74,143		32,690.2		133	
ANNUAL MEAN	203		89.3		236	
HIGHEST ANNUAL MEAN					51.4	2003
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	3,900	Mar 20	3,530	Sep 8	7,740	Aug 27, 1995
LOWEST DAILY MEAN	11	Oct 5	4.9	May 29	0.46	Sep 30, 1983
ANNUAL SEVEN-DAY MINIMUM	13	Sep 30	5.9	May 24	0.76	Sep 28, 1983
MAXIMUM PEAK FLOW			4,800	Sep 8	12,500*	Aug 27, 1995
MAXIMUM PEAK STAGE			12.30	Sep 8	19.40*	Aug 27, 1995
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.45	Sep 30, 1983
ANNUAL RUNOFF (CFSM)	2.20		0.967		1.44	
ANNUAL RUNOFF (INCHES)	29.85		13.16		19.52	
10 PERCENT EXCEEDS	615		177		266	
50 PERCENT EXCEEDS	50		20		32	
90 PERCENT EXCEEDS	15		10		8.6	

* See REMARKS.

e Estimated.



02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC—Continued

PRECIPITATION RECORDS

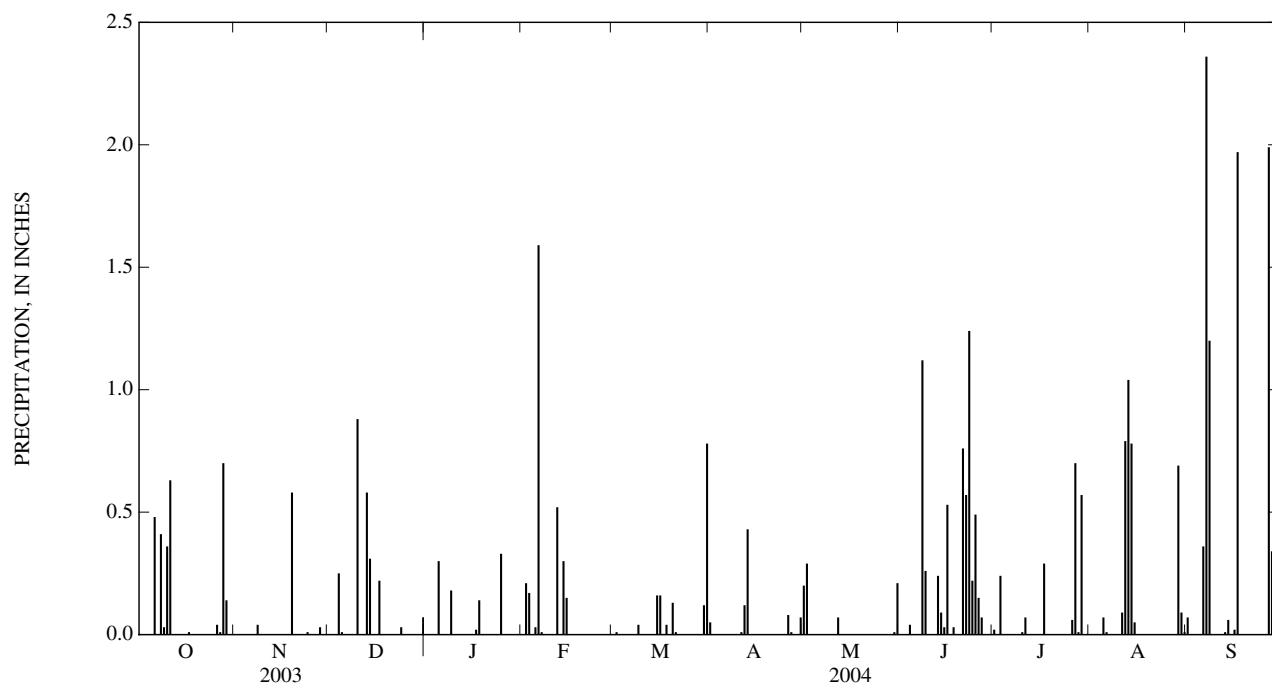
PERIOD OF RECORD.--May 1993 to current year. Records for period May 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.20	0.00	0.02	0.00	0.07
2	0.00	0.00	0.00	0.00	0.21	0.01	0.00	0.29	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.24	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
5	0.00	0.00	0.01	0.30	0.03	0.00	0.00	0.00	0.00	0.00	0.07	0.00
6	0.48	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00	0.00	0.01	0.36
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.36
8	0.41	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	1.20
9	0.03	0.00	0.00	0.18	0.00	0.04	0.00	0.00	0.26	0.00	0.00	0.00
10	0.36	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.63	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.09	0.00
12	0.00	0.00	0.00	0.00	0.52	0.00	0.12	0.07	0.00	0.00	0.79	0.00
13	0.00	0.00	0.58	0.00	0.00	0.00	0.43	0.00	0.24	0.00	1.04	0.01
14	0.00	0.00	0.31	0.00	0.30	0.00	0.00	0.00	0.09	0.00	0.78	0.06
15	0.00	0.00	0.00	0.00	0.15	0.16	0.00	0.00	0.03	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.53	0.00	0.00	0.02
17	0.01	0.00	0.22	0.02	0.00	0.00	0.00	0.00	0.00	0.29	0.00	1.97
18	0.00	0.00	0.00	0.14	0.00	0.04	0.00	0.00	0.03	0.00	0.00	0.00
19	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.76	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
24	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00
25	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.08	0.00	0.15	0.06	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.70	0.00	1.99
28	0.70	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.34
29	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.69	0.00
30	0.00	0.00	0.00	0.00	---	0.12	0.07	0.01	0.00	0.00	0.09	0.00
31	0.00	---	0.00	0.00	---	0.78	---	0.21	---	0.00	0.01	---
TOTAL	2.81	0.66	2.28	0.97	---	1.45	0.77	0.78	5.84	1.97	3.62	8.38



0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC

LOCATION.--Lat 35°06'18", long 80°57'13", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of culvert on Secondary Road 1441 (Carowinds Blvd.), and 4.5 mi west of Pineville.

DRAINAGE AREA.--6.73 mi².

PERIOD OF RECORD.-- May 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 562.23 ft above NGVD of 1929, from levels. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 17, 19, 20, 22, 23, 27, 28, 30, 2001.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.44	0.54	0.79	0.77	1.1	37	20	16	0.63	3.1	2.4	0.99
2	0.42	0.56	0.73	0.78	1.2	28	4.8	21	0.33	1.8	1.2	0.99
3	0.38	0.53	0.75	0.78	17	11	2.8	6.5	0.27	19	0.52	0.89
4	0.33	0.56	2.9	0.79	3.1	7.2	2.1	2.5	1.1	6.5	0.41	0.91
5	0.42	0.69	4.1	4.4	1.9	5.7	1.7	1.6	0.39	3.0	0.37	1.0
6	0.34	0.66	1.1	2.6	111	5.3	1.6	1.1	0.26	1.1	0.66	4.2
7	0.41	0.78	0.74	1.2	20	4.8	1.4	0.89	0.60	0.74	0.71	84
8	2.7	1.9	0.69	0.81	5.8	3.5	1.4	0.85	19	0.88	0.52	113
9	1.6	0.68	0.72	2.6	3.8	e2.3	1.6	0.71	11	0.69	0.60	6.3
10	0.78	0.63	27	1.5	2.5	2.7	1.2	0.61	1.8	0.45	0.47	2.4
11	12	0.67	6.9	1.1	1.8	3.4	e2.1	0.56	0.70	1.2	1.4	2.1
12	e0.37	0.50	2.4	1.2	20	3.4	e6.6	0.91	0.44	0.39	49	1.1
13	0.46	0.58	13	1.3	6.9	2.4	29	0.57	13	0.33	19	1.0
14	0.31	0.61	31	0.92	8.6	2.3	6.0	0.49	5.0	0.32	22	1.7
15	0.37	0.58	5.4	0.90	12	3.0	2.8	0.43	3.3	0.30	5.5	1.2
16	0.44	0.57	2.4	0.88	6.3	5.2	2.0	0.45	10	0.28	2.3	1.2
17	0.45	0.64	6.8	0.87	3.4	e2.3	1.6	0.42	1.2	0.59	1.3	24
18	0.33	0.67	2.5	4.3	2.6	3.7	1.4	3.5	0.64	4.6	0.87	4.1
19	0.42	10	1.6	1.6	2.1	3.6	1.2	1.7	0.40	0.48	0.71	1.8
20	0.49	2.6	1.2	1.0	1.8	2.5	1.2	0.59	0.30	0.31	0.61	1.4
21	0.54	1.0	1.1	0.95	2.0	6.7	1.1	0.44	9.8	0.29	9.0	1.1
22	0.64	0.74	1.0	0.95	2.0	2.5	0.97	0.42	15	0.51	5.9	0.94
23	0.65	0.69	1.0	0.96	1.6	2.3	0.91	3.1	66	0.22	1.4	0.88
24	0.73	0.77	1.1	0.91	1.6	2.9	1.0	1.8	17	0.22	0.90	0.96
25	0.64	1.0	0.98	1.7	1.6	2.0	0.86	0.59	46	0.27	0.67	1.1
26	0.56	0.98	0.90	1.4	2.4	1.3	1.2	0.36	19	0.36	0.58	1.3
27	0.66	1.0	0.82	2.8	11	1.3	1.7	0.34	3.7	22	0.55	52
28	6.9	1.7	0.80	5.8	22	1.2	0.84	0.32	2.2	2.9	0.60	87
29	11	1.2	0.80	2.8	24	1.3	0.75	0.31	1.4	24	4.2	3.7
30	2.1	0.82	0.82	1.8	---	4.2	0.69	0.33	1.1	2.7	4.7	1.4
31	0.86	---	0.79	1.4	---	23	---	3.2	---	1.00	1.9	---
TOTAL	48.74	34.85	122.83	51.77	301.1	188.0	102.52	72.59	251.56	100.53	140.95	404.66
MEAN	1.57	1.16	3.96	1.67	10.4	6.06	3.42	2.34	8.39	3.24	4.55	13.5
MAX	12	10	31	5.8	111	37	29	21	66	24	49	113
MIN	0.31	0.50	0.69	0.77	1.1	1.2	0.69	0.31	0.26	0.22	0.37	0.88
CFSM	0.23	0.17	0.59	0.25	1.54	0.90	0.51	0.35	1.25	0.48	0.68	2.00
IN.	0.27	0.19	0.68	0.29	1.66	1.04	0.57	0.40	1.39	0.56	0.78	2.24

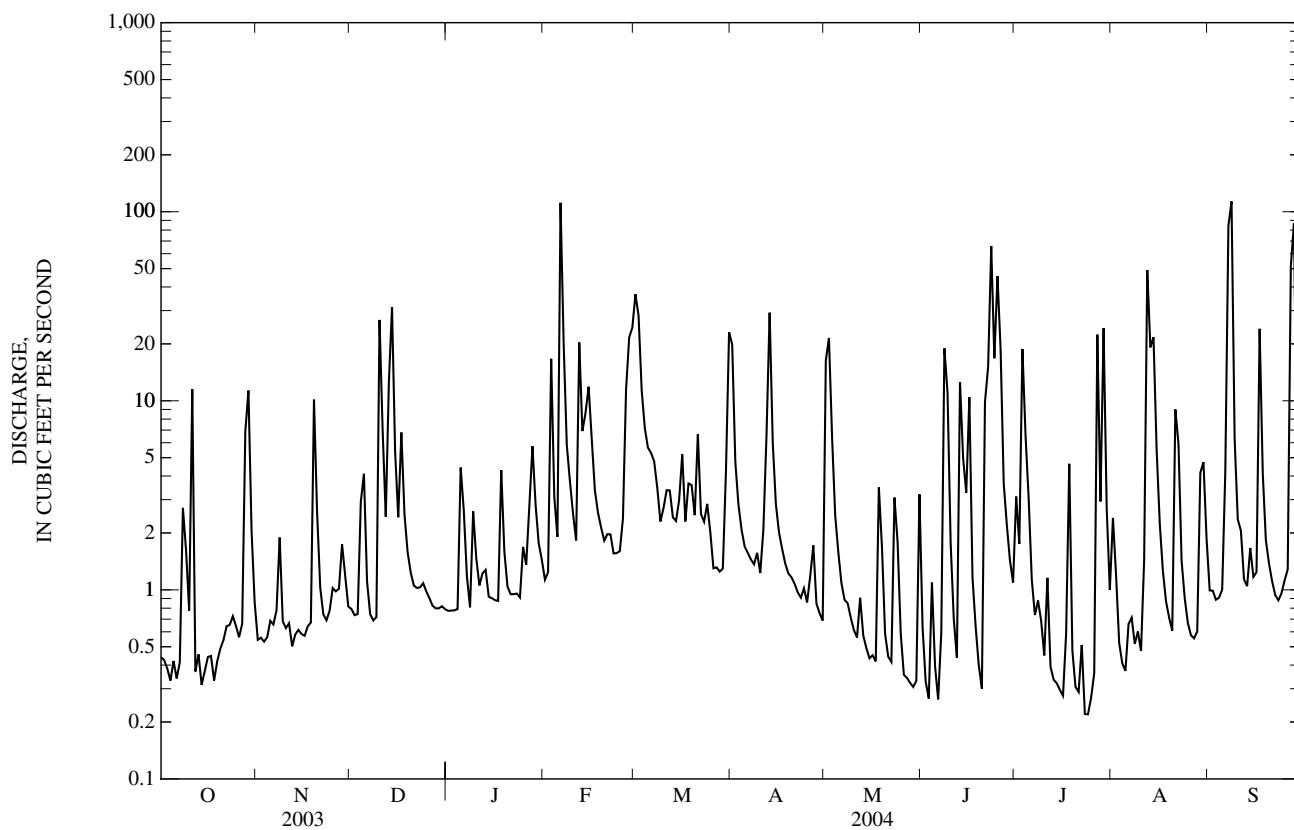
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	4.97	3.24	5.63	7.31	8.37	13.3	9.64	7.95	5.28	7.01	4.49	5.46
MAX	15.4	10.5	19.9	14.2	12.8	34.6	36.5	42.1	16.3	28.6	14.8	13.5
(WY)	(2000)	(2003)	(2003)	(1999)	(2000)	(2003)	(2003)	(2003)	(2003)	(1998)	(2003)	(2004)
MIN	0.81	1.16	1.61	1.67	3.28	3.06	2.26	0.93	0.76	1.63	0.28	1.19
(WY)	(2001)	(2004)	(2002)	(2004)	(2002)	(1999)	(2001)	(2000)	(2002)	(1999)	(2001)	(2003)

0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1998 - 2004	
ANNUAL TOTAL	5,414.11		1,820.10		6.73	
ANNUAL MEAN	14.8		4.97		17.6	
HIGHEST ANNUAL MEAN					3.40	2003
LOWEST ANNUAL MEAN					0.05	2002
HIGHEST DAILY MEAN	519	Mar 20	113	Sep 8	519	Mar 20, 2003
LOWEST DAILY MEAN	0.31	Oct 14	0.22	Jul 23	0.06	Aug 20, 2001
ANNUAL SEVEN-DAY MINIMUM	0.39	Oct 12	0.31	Jul 20	0.06	Aug 25, 2001
MAXIMUM PEAK FLOW			665	Sep 28	2,450	Jul 27, 1998
MAXIMUM PEAK STAGE			7.03	Sep 28	11.44	Jul 27, 1998
INSTANTANEOUS LOW FLOW			0.18	Jul 23	0.04*	Aug 16, 2001
ANNUAL RUNOFF (CFSM)	2.20		0.739		1.000	
ANNUAL RUNOFF (INCHES)	29.93		10.06		13.59	
10 PERCENT EXCEEDS	22		11		12	
50 PERCENT EXCEEDS	3.7		1.2		1.4	
90 PERCENT EXCEEDS	0.55		0.42		0.39	

* See REMARKS.
e Estimated.



02146900 TWELVE MILE CREEK NEAR WAXHAW, NC

LOCATION.--Lat 34°57'07", long 80°45'21", Union County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on State Highway 16, 680 ft downstream of West Fork Twelve Mile Creek, and 2.5 mi north of Waxhaw.

DRAINAGE AREA.--76.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-60. October 1960 to February 2004 (discontinued).

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

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft above NGVD of 1929. Prior to Mar. 13, 1962, water-stage recorder at site 20 ft upstream, Mar. 13, 1962 to June 4, 1997, water-stage recorder at site 100 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow also occurred Oct. 6, 1968, Oct. 7-15, 1970, Oct. 1-22, 1983 and Aug. 26, 2001. Minimum discharge for current water year also occurred Oct. 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900 is 23.6 ft, Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.1	8.7	11	12	---	---	---	---	---	---	---
2	9.7	6.7	8.4	10	11	---	---	---	---	---	---	---
3	8.9	6.5	8.1	11	71	---	---	---	---	---	---	---
4	8.8	6.3	8.2	11	30	---	---	---	---	---	---	---
5	8.5	6.2	12	11	17	---	---	---	---	---	---	---
6	8.6	6.1	12	15	351	---	---	---	---	---	---	---
7	8.7	6.1	10	13	1,130	---	---	---	---	---	---	---
8	13	7.2	9.6	11	83	---	---	---	---	---	---	---
9	26	6.9	9.5	12	37	---	---	---	---	---	---	---
10	16	6.7	28	13	26	---	---	---	---	---	---	---
11	57	6.9	109	12	21	---	---	---	---	---	---	---
12	24	7.4	20	11	206	---	---	---	---	---	---	---
13	16	6.8	15	12	94	---	---	---	---	---	---	---
14	13	6.6	140	11	69	---	---	---	---	---	---	---
15	11	7.0	62	11	165	---	---	---	---	---	---	---
16	10	7.1	21	10	97	---	---	---	---	---	---	---
17	8.8	7.3	20	10	40	---	---	---	---	---	---	---
18	8.0	7.3	25	12	29	---	---	---	---	---	---	---
19	8.0	14	17	13	24	---	---	---	---	---	---	---
20	7.3	39	15	12	21	---	---	---	---	---	---	---
21	7.1	14	13	11	20	---	---	---	---	---	---	---
22	6.6	11	13	10	18	---	---	---	---	---	---	---
23	6.3	9.8	12	10	17	---	---	---	---	---	---	---
24	6.0	9.6	13	10	16	---	---	---	---	---	---	---
25	6.0	8.7	13	10	16	---	---	---	---	---	---	---
26	5.8	8.2	12	11	16	---	---	---	---	---	---	---
27	6.2	7.9	12	11	27	---	---	---	---	---	---	---
28	6.8	8.6	11	12	60	---	---	---	---	---	---	---
29	46	9.9	11	13	191	---	---	---	---	---	---	---
30	13	9.7	11	13	---	---	---	---	---	---	---	---
31	8.0	---	11	13	---	---	---	---	---	---	---	---
TOTAL	399.1	272.6	690.5	356	2,915	---	---	---	---	---	---	---
MEAN	12.9	9.09	22.3	11.5	101	---	---	---	---	---	---	---
MAX	57	39	140	15	1,130	---	---	---	---	---	---	---
MIN	5.8	6.1	8.1	10	11	---	---	---	---	---	---	---
CFSM	0.17	0.12	0.29	0.15	1.31	---	---	---	---	---	---	---
IN.	0.19	0.13	0.34	0.17	1.42	---	---	---	---	---	---	---

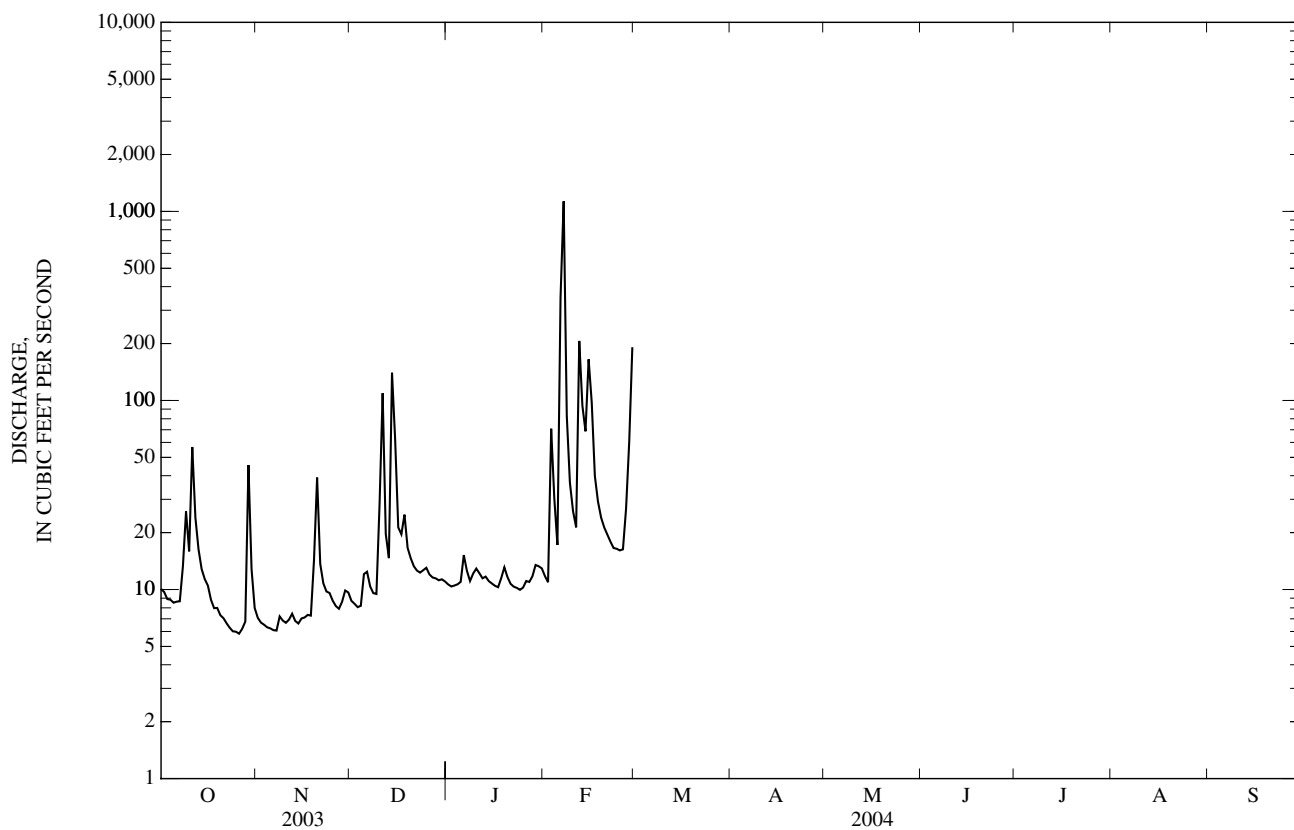
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	48.1	35.2	62.8	126	154	160	94.7	46.0	34.1	36.2	43.1	29.6
MAX	372	161	261	331	351	425	302	197	149	238	318	161
(WY)	(1991)	(1986)	(1984)	(1978)	(1990)	(1980)	(2003)	(2003)	(2003)	(1978)	(1995)	(1987)
MIN	0.39	0.36	4.27	11.5	22.4	25.8	12.9	4.45	1.26	1.51	0.34	0.15
(WY)	(1984)	(2002)	(2002)	(1981)	(2002)	(1985)	(2001)	(2001)	(1986)	(2002)	(2001)	(1968)

02146900 TWELVE MILE CREEK NEAR WAXHAW, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1961 - 2004	
ANNUAL TOTAL	41,407.2		4,633.2		72.3	
ANNUAL MEAN	113		30.5		150	
HIGHEST ANNUAL MEAN					14.8	1991
LOWEST ANNUAL MEAN					0.00	2002
HIGHEST DAILY MEAN	3,000	Apr 10	1,130	Feb 7	6,700	Aug 27, 1995
LOWEST DAILY MEAN	5.8	Oct 26	5.8	Oct 26	0.00	Oct 6, 1968
ANNUAL SEVEN-DAY MINIMUM	6.2	Oct 22	6.2	Oct 22	0.00	Oct 7, 1970
MAXIMUM PEAK FLOW			1,950	Feb 7	9,970	Aug 27, 1995
MAXIMUM PEAK STAGE			12.20	Feb 7	21.94	Aug 27, 1995
INSTANTANEOUS LOW FLOW			5.7*	Oct 24	0.00*	Oct 5, 1968
ANNUAL RUNOFF (CFSM)	1.48		0.398		0.945	
ANNUAL RUNOFF (INCHES)	20.14		2.25		12.84	
10 PERCENT EXCEEDS	255		54		130	
50 PERCENT EXCEEDS	31		11		18	
90 PERCENT EXCEEDS	8.6		6.8		2.3	

* See REMARKS.



02146900 TWELVE MILE CREEK NEAR WAXHAW, NC—Continued

PRECIPITATION RECORDS

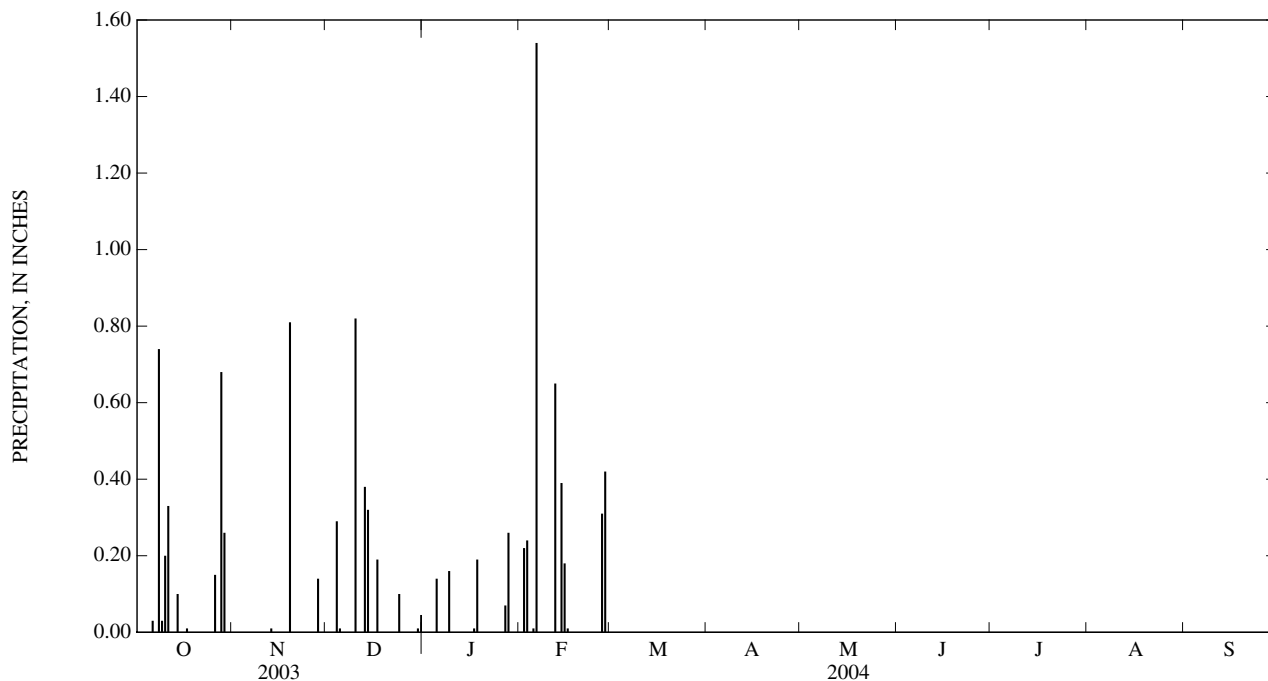
PERIOD OF RECORD.--October 2001 to February 2004 (discontinued).

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
2	0.00	0.00	0.00	0.00	0.22	---	---	---	---	---	---	---
3	0.00	0.00	0.00	0.00	0.24	---	---	---	---	---	---	---
4	0.00	0.00	0.29	0.00	0.00	---	---	---	---	---	---	---
5	0.00	0.00	0.01	0.14	0.01	---	---	---	---	---	---	---
6	0.03	0.00	0.00	0.00	1.54	---	---	---	---	---	---	---
7	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
8	0.74	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
9	0.03	0.00	0.00	0.16	0.00	---	---	---	---	---	---	---
10	0.20	0.00	0.82	0.00	0.00	---	---	---	---	---	---	---
11	0.33	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
12	0.00	0.00	0.00	0.00	0.65	---	---	---	---	---	---	---
13	0.00	0.01	0.38	0.00	0.00	---	---	---	---	---	---	---
14	0.10	0.00	0.32	0.00	0.39	---	---	---	---	---	---	---
15	0.00	0.00	0.00	0.00	0.18	---	---	---	---	---	---	---
16	0.00	0.00	0.00	0.00	0.01	---	---	---	---	---	---	---
17	0.01	0.00	0.19	0.01	0.00	---	---	---	---	---	---	---
18	0.00	0.00	0.00	0.19	0.00	---	---	---	---	---	---	---
19	0.00	0.81	0.00	0.00	0.00	---	---	---	---	---	---	---
20	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
21	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
22	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
23	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
24	0.00	0.00	0.10	0.00	0.00	---	---	---	---	---	---	---
25	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
26	0.15	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
27	0.00	0.00	0.00	0.07	0.31	---	---	---	---	---	---	---
28	0.68	0.14	0.00	0.26	0.42	---	---	---	---	---	---	---
29	0.26	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---
30	0.00	0.00	0.01	0.00	---	---	---	---	---	---	---	---
31	0.00	---	0.00	0.00	---	---	---	---	---	---	---	---
TOTAL	2.53	0.96	2.12	0.83	3.97	---	---	---	---	---	---	---



02147126 WAXHAW CREEK AT SECONDARY ROAD 1103 NEAR JACKSON, NC

LOCATION.--Lat 34°50'13", long 80°47'30", Union County, Hydrologic Unit 03040103, on right upstream wingwall on Secondary Road 1103, 6 mi upstream from mouth, 6 mi southwest of Jackson and 6.5 mi south of Waxhaw.

DRAINAGE AREA.--35.0 mi².

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 490 ft above NGVD of 1929, from topographic map. Satellite telemetry at site.

REMARKS.--No estimated daily discharges. Records fair. Peak stage for period of record from crest-stage gage. Peak discharge for period of record and current water year from rating curve extended above 1,200 ft³/s on basis of step-backwater computations. No flow also occurred many days in June, July, Aug., and Sept. 2002, and Oct. 7-10, 2002. Minimum discharge for current water year also occurred Aug. 12, 2004.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.2	5.5	5.7	6.3	162	30	4.6	1.7	3.1	0.76	70
2	2.4	4.2	5.3	5.7	5.8	211	23	8.1	1.2	3.1	1.0	42
3	2.4	4.1	4.7	5.8	21	67	16	10	1.3	30	1.4	7.4
4	2.4	4.1	5.0	5.9	24	42	14	6.1	1.1	41	0.73	3.4
5	2.4	4.3	8.1	6.3	12	33	12	6.1	0.95	7.8	0.51	2.2
6	2.4	4.5	8.9	7.3	22	29	11	6.2	0.97	4.2	0.65	1.6
7	2.6	5.6	7.0	6.2	216	25	11	4.5	0.97	3.1	0.55	230
8	3.3	5.4	6.0	5.8	52	21	11	3.9	0.90	2.5	0.30	1,070
9	6.6	4.7	5.5	6.3	23	19	10	3.4	4.8	2.0	0.21	358
10	4.5	4.2	9.1	6.8	18	18	9.6	3.2	2.1	1.7	0.14	35
11	5.7	4.2	30	6.3	16	17	9.2	3.0	1.3	1.6	0.09	15
12	8.4	4.4	16	6.0	53	16	9.9	3.0	0.89	3.4	0.54	8.3
13	4.5	4.4	9.8	5.8	132	15	16	3.1	0.74	3.6	1.3	5.9
14	3.9	4.1	27	5.7	40	14	23	3.0	1.0	2.1	256	4.6
15	4.1	3.9	44	5.8	89	15	13	3.2	0.83	1.4	454	3.8
16	3.9	3.9	17	5.6	66	19	10	3.4	1.4	1.2	59	3.6
17	3.4	4.0	14	5.3	33	19	9.1	3.5	1.5	1.00	8.8	19
18	3.1	4.3	14	6.7	24	16	8.5	5.2	1.2	1.9	3.9	76
19	3.0	7.1	12	7.3	20	15	7.9	2.6	0.75	1.4	2.5	15
20	2.9	13	9.2	6.3	18	15	7.5	2.3	0.41	1.1	1.7	5.4
21	3.0	9.2	8.0	5.6	16	18	7.0	2.2	1.2	0.77	1.3	3.6
22	3.1	6.4	7.3	5.4	14	18	6.4	2.0	2.5	0.62	3.0	3.1
23	2.9	5.4	7.3	5.4	13	14	6.1	2.1	4.3	0.56	3.3	2.7
24	2.9	4.9	8.3	5.3	13	12	5.8	2.0	85	0.49	1.8	2.5
25	2.7	4.8	7.8	5.6	13	12	5.4	1.9	14	0.53	1.2	2.3
26	2.9	4.7	6.9	6.0	14	12	5.3	1.6	6.2	0.93	1.1	2.2
27	3.5	5.4	6.5	6.0	21	13	6.1	1.4	4.9	1.3	0.73	8.1
28	4.2	6.4	6.3	6.3	30	12	5.4	1.3	15	1.9	0.67	1,040
29	11	6.3	6.2	7.1	76	11	5.0	1.3	6.4	1.4	0.86	294
30	9.8	5.6	6.2	7.9	---	12	4.6	1.2	4.0	1.8	6.1	36
31	5.4	---	6.0	7.3	---	22	---	1.6	---	0.86	82	---
TOTAL	125.8	157.7	334.9	190.5	1,101.1	944	318.8	107.0	169.51	128.36	896.14	3,370.7
MEAN	4.06	5.26	10.8	6.15	38.0	30.5	10.6	3.45	5.65	4.14	28.9	112
MAX	11	13	44	7.9	216	211	30	10	85	41	454	1,070
MIN	2.4	3.9	4.7	5.3	5.8	11	4.6	1.2	0.41	0.49	0.09	1.6
CFSM	0.12	0.15	0.31	0.18	1.08	0.87	0.30	0.10	0.16	0.12	0.83	3.21
IN.	0.13	0.17	0.36	0.20	1.17	1.00	0.34	0.11	0.18	0.14	0.95	3.58

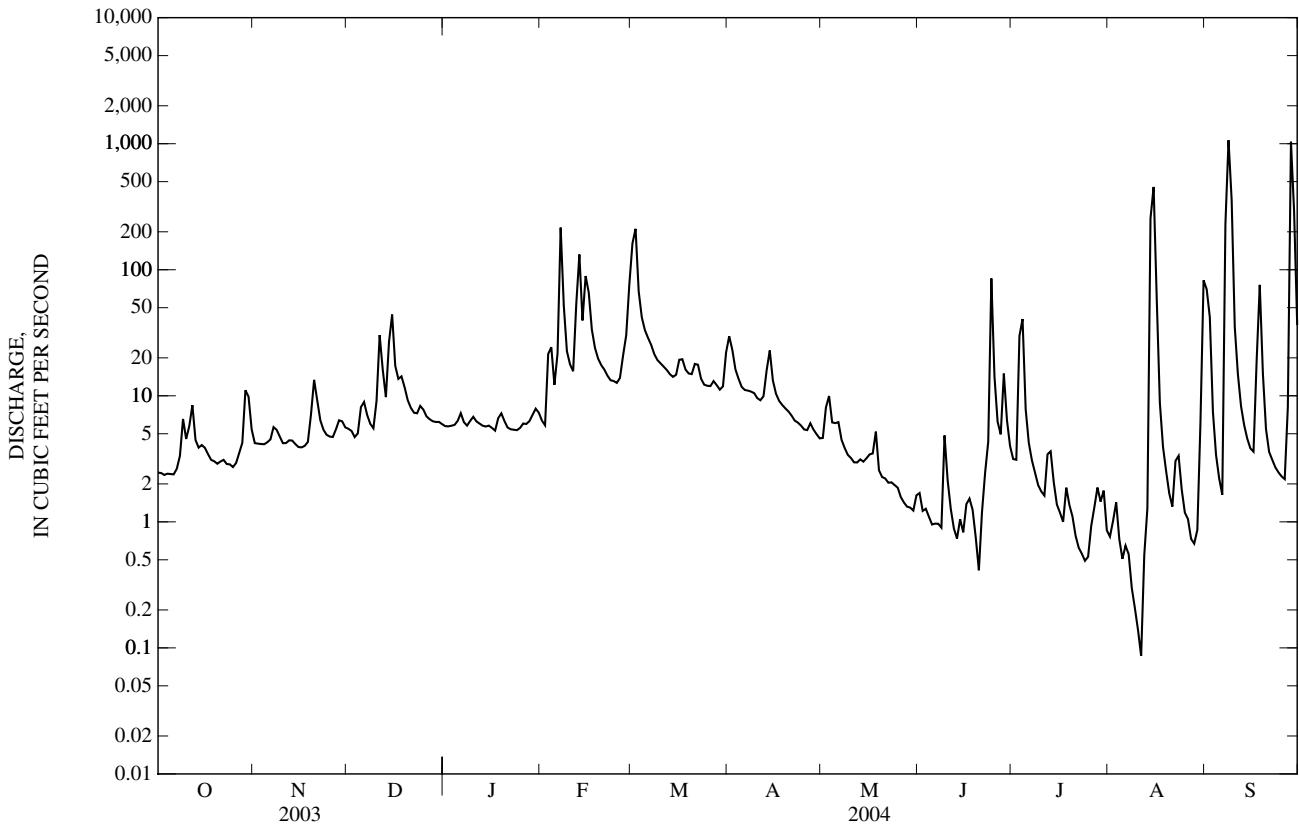
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	7.80	20.8	38.3	12.1	70.3	103	95.3	14.4	15.4	19.3	21.1	41.9
MAX	11.6	36.3	65.7	18.0	104	176	180	36.0	38.2	53.0	34.2	112
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	4.06	5.26	10.8	6.15	38.0	30.5	10.6	3.45	2.23	0.61	0.12	5.64
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2002)	(2002)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	20,075.80		7,844.51		42.1	
ANNUAL MEAN	55.0		21.4		21.4	
HIGHEST ANNUAL MEAN					62.9	2003
LOWEST ANNUAL MEAN					21.4	2004
HIGHEST DAILY MEAN	e1,600	Mar 20	1,070	Sep 8	e1,600	Mar 20, 2003
LOWEST DAILY MEAN	1.9	Sep 20	0.09	Aug 11	0.00*	Jun 24, 2002
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 16	0.35	Aug 5	0.00	Jun 24, 2002
MAXIMUM PEAK FLOW			1,560*	Sep 28	2,880*	Mar 20, 2003
MAXIMUM PEAK STAGE			9.25	Sep 28	10.71*	Mar 20, 2003
INSTANTANEOUS LOW FLOW			0.05*	Aug 11	0.00*	Jun 21, 2002
ANNUAL RUNOFF (CFSM)	1.57		0.612		1.20	
ANNUAL RUNOFF (INCHES)	21.34		8.34		16.35	
10 PERCENT EXCEEDS	124		28		76	
50 PERCENT EXCEEDS	9.2		5.6		7.9	
90 PERCENT EXCEEDS	3.4		1.2		1.8	

* See REMARKS.

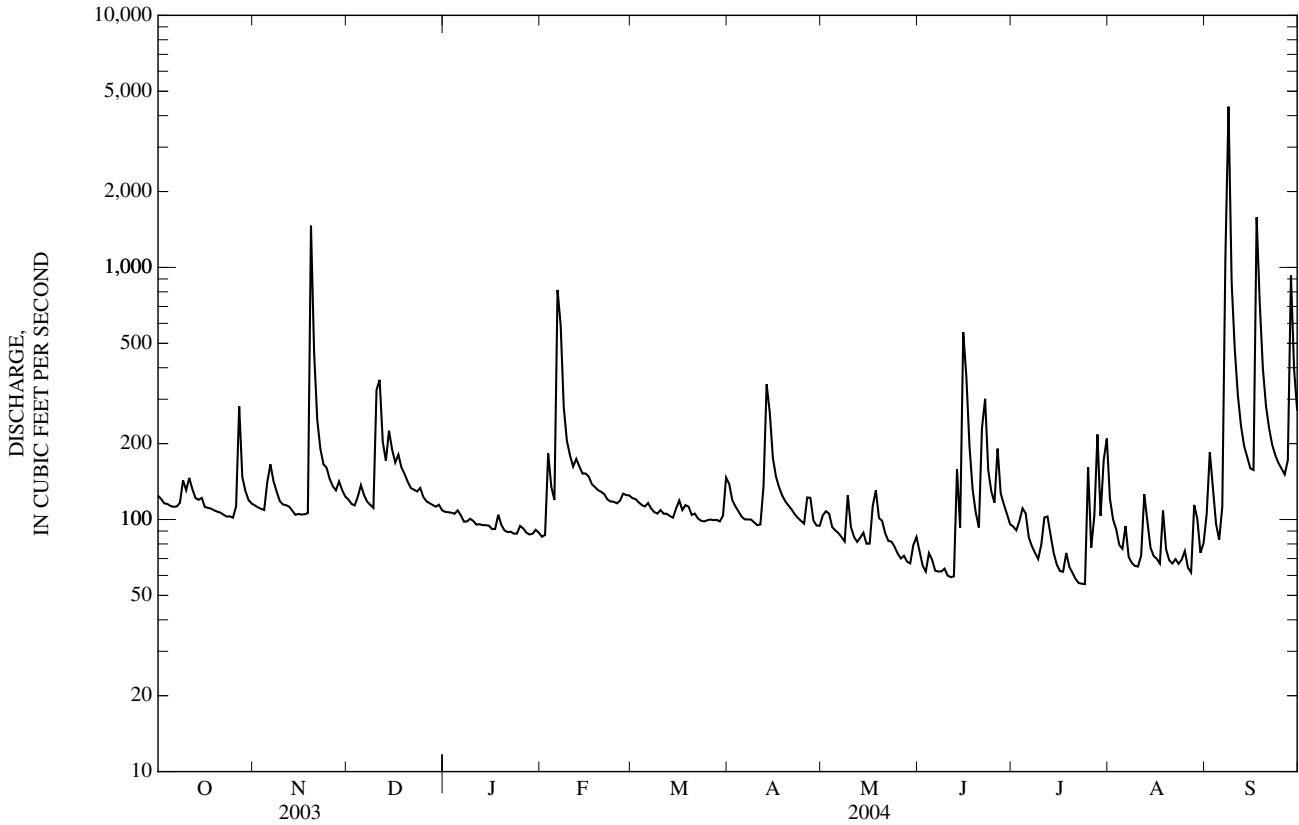
e Estimated.



02149000 COVE CREEK NEAR LAKE LURE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	77,810		56,270		135	
ANNUAL MEAN	213		154		231	
HIGHEST ANNUAL MEAN					43.7	1993
LOWEST ANNUAL MEAN					43.7	2002
HIGHEST DAILY MEAN	1,700	Jul 31	4,340	Sep 8	4,340	Sep 8, 2004
LOWEST DAILY MEAN	40	Jan 27	55	Jul 24	8.1	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	43	Jan 23	61	Jul 18	9.2	Aug 9, 2002
MAXIMUM PEAK FLOW			6,550	Sep 8	7,050	Jun 5, 1957
MAXIMUM PEAK STAGE			18.41	Sep 8	18.53	Jun 5, 1957
INSTANTANEOUS LOW FLOW			51	Jul 24	7.7*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	2.70		1.95		1.71	
ANNUAL RUNOFF (INCHES)	36.64		26.50		23.19	
10 PERCENT EXCEEDS	444		195		226	
50 PERCENT EXCEEDS	144		109		103	
90 PERCENT EXCEEDS	69		72		48	

* See REMARKS.



02150495 SECOND BROAD RIVER NEAR LOGAN, NC

LOCATION.--Lat 35°24'15", long 81°52'19", Rutherford County, Hydrologic Unit 03050105, on right bank 30 ft downstream of bridge on Secondary Road 1538, 2.2 mi southeast of Logan, and 2.7 mi upstream from Catheys Creek.

DRAINAGE AREA.--86.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

REVISED RECORDS.--WDR NC-03-1B: 2000 (M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 840 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair.

REVISIONS.--The maximum discharge for the water year 2000 has been revised to 2,080 ft³/s, Mar. 20, 2000, gage height, 11.05 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

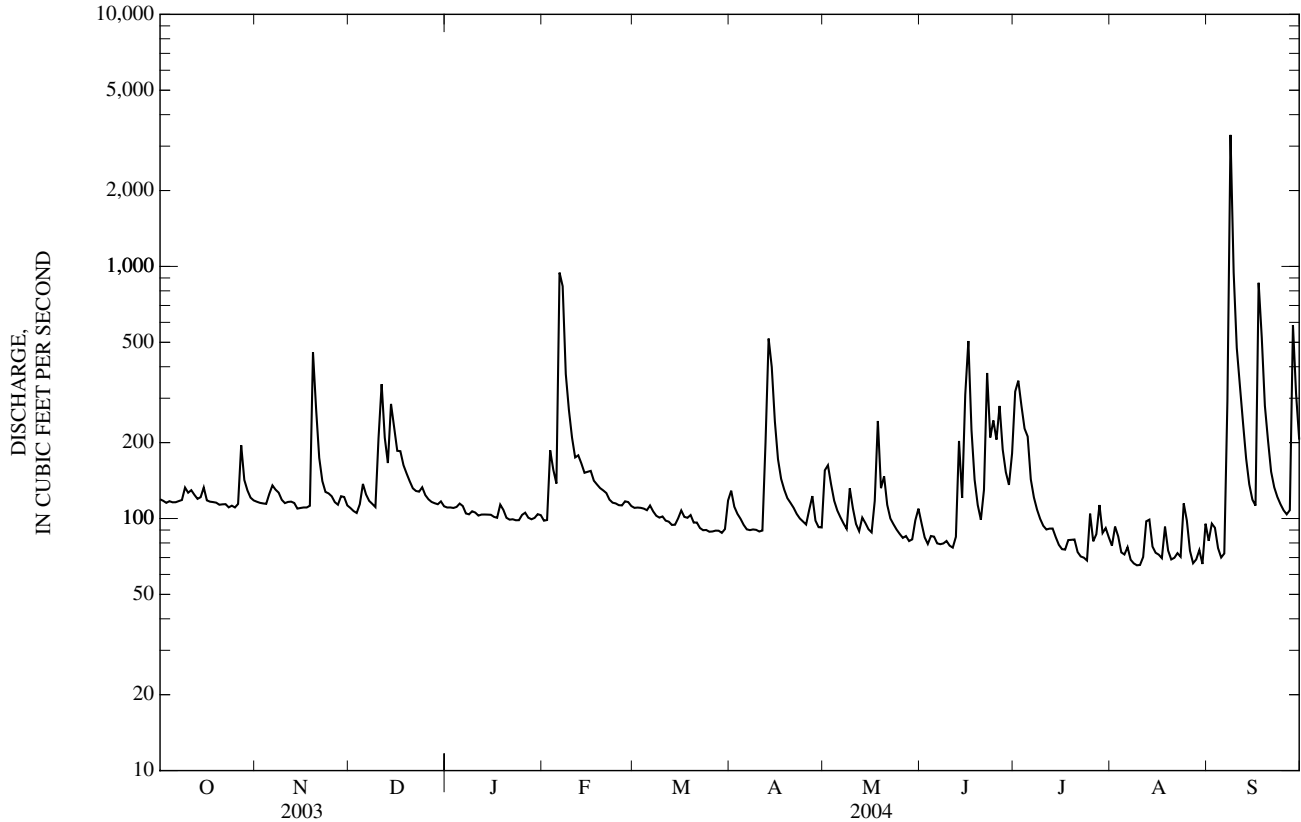
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	117	110	111	98	110	129	155	96	319	78	82
2	118	115	107	111	99	111	111	163	84	352	93	95
3	115	115	105	110	186	110	104	137	79	280	85	92
4	117	114	114	111	156	109	100	118	85	227	73	76
5	116	125	137	115	138	108	94	108	85	211	72	70
6	116	135	125	112	945	113	91	101	80	143	77	73
7	117	130	118	105	835	107	90	96	79	121	69	293
8	118	127	114	104	374	103	90	91	80	108	66	3,320
9	133	119	111	107	270	101	90	132	81	100	65	947
10	127	115	209	106	209	102	89	110	78	94	65	475
11	130	116	341	103	175	98	90	95	77	90	70	337
12	124	117	209	104	178	97	200	89	85	91	97	240
13	120	115	166	104	165	94	517	101	203	91	99	173
14	122	109	285	104	152	94	399	96	121	84	77	137
15	133	110	230	103	153	100	243	91	310	79	73	119
16	118	111	186	102	154	108	172	88	506	76	72	113
17	117	111	185	101	141	101	144	117	224	75	70	861
18	116	112	163	114	136	101	130	244	143	82	93	523
19	116	457	151	108	132	103	120	132	113	82	75	280
20	113	272	140	101	129	96	115	147	99	83	69	204
21	114	174	132	99	126	96	110	113	130	74	70	153
22	114	141	129	99	119	92	104	100	378	71	73	133
23	111	127	128	98	116	90	100	95	210	70	71	122
24	112	126	133	98	115	90	97	90	245	68	115	114
25	111	123	124	103	113	89	95	87	206	105	98	108
26	114	116	119	105	113	89	108	84	280	81	74	104
27	195	113	116	101	117	90	123	85	188	87	66	108
28	142	123	115	99	116	89	98	81	153	113	69	586
29	129	122	114	101	112	88	92	83	136	88	75	312
30	121	113	117	104	---	91	92	98	181	92	66	206
31	118	---	112	103	---	118	---	109	---	84	95	---
TOTAL	3,786	4,120	4,645	3,246	5,872	3,088	4,137	3,436	4,815	3,721	2,410	10,456
MEAN	122	137	150	105	202	99.6	138	111	160	120	77.7	349
MAX	195	457	341	115	945	118	517	244	506	352	115	3,320
MIN	111	109	105	98	98	88	89	81	77	68	65	70
CFSM	1.42	1.59	1.74	1.21	2.35	1.16	1.60	1.29	1.86	1.39	0.90	4.04
IN.	1.63	1.78	2.00	1.40	2.53	1.33	1.79	1.48	2.08	1.61	1.04	4.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	59.1	72.4	91.6	81.7	112	122	143	101	99.6	92.8	93.0	109
MAX	122	137	167	115	202	216	368	276	275	275	384	349
(WY)	(2004)	(2004)	(2003)	(1999)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	25.5	33.8	46.2	50.8	57.7	88.8	66.2	34.4	31.1	21.4	13.9	27.9
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

02150495 SECOND BROAD RIVER NEAR LOGAN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	77,756		53,732			
ANNUAL MEAN	213		147		97.8	
HIGHEST ANNUAL MEAN					205	2003
LOWEST ANNUAL MEAN					46.2	2002
HIGHEST DAILY MEAN	1,960	Apr 18	3,320	Sep 8	3,320	Sep 8, 2004
LOWEST DAILY MEAN	56	Jan 25	65	Aug 9	6.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	59	Jan 22	69	Aug 5	8.0	Sep 7, 2002
MAXIMUM PEAK FLOW			4,450	Sep 8	4,450	Sep 8, 2004
MAXIMUM PEAK STAGE			15.91	Sep 8	15.91	Sep 8, 2004
INSTANTANEOUS LOW FLOW			61	Aug 28	6.1	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	2.47		1.70		1.13	
ANNUAL RUNOFF (INCHES)	33.56		23.19		15.42	
10 PERCENT EXCEEDS	424		209		174	
50 PERCENT EXCEEDS	140		111		65	
90 PERCENT EXCEEDS	76		79		26	



02150495 SECOND BROAD RIVER NEAR LOGAN, NC—Continued

PRECIPITATION RECORDS

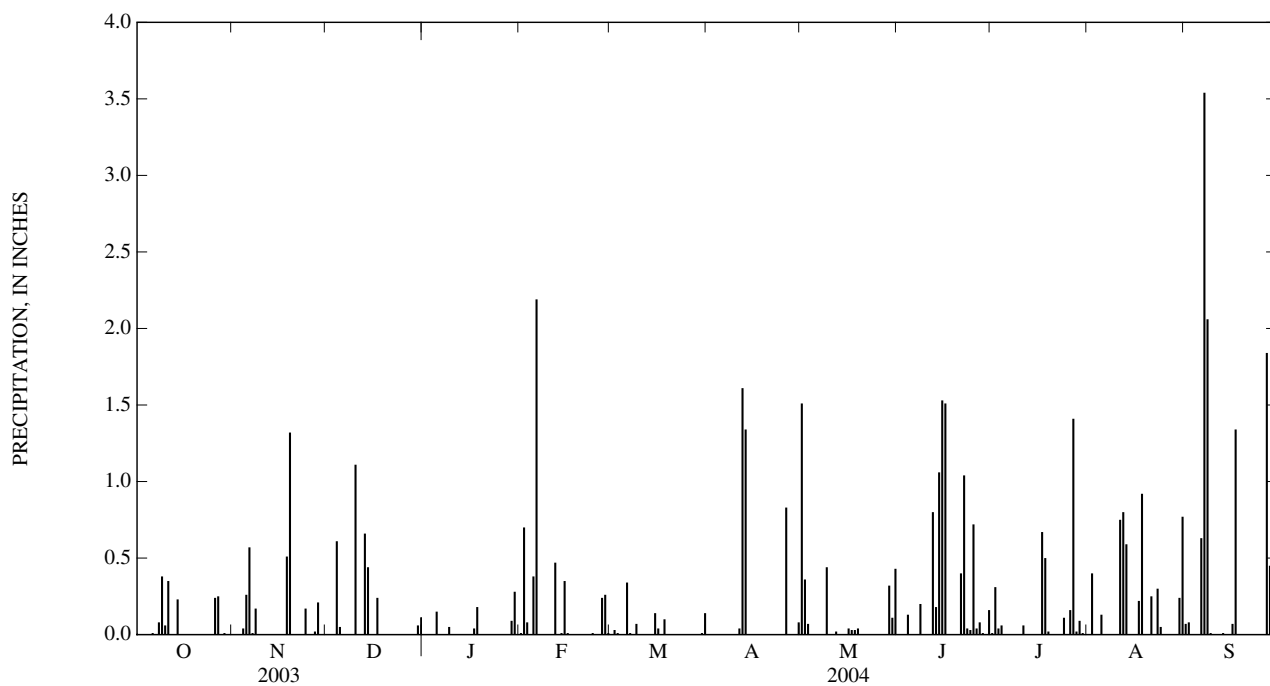
PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.51	0.00	0.01	0.00	0.07
2	0.00	0.00	0.00	0.00	0.70	0.03	0.00	0.36	0.00	0.31	0.40	0.08
3	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.07	0.00	0.04	0.00	0.00
4	0.00	0.04	0.61	0.00	0.00	0.00	0.00	0.00	0.13	0.06	0.00	0.00
5	0.00	0.26	0.05	0.15	0.38	0.00	0.00	0.00	0.00	0.00	0.13	0.00
6	0.01	0.57	0.00	0.00	2.19	0.34	0.00	0.00	0.00	0.00	0.00	0.63
7	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	3.54
8	0.08	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	2.06
9	0.38	0.00	0.00	0.05	0.00	0.07	0.00	0.44	0.00	0.00	0.00	0.01
10	0.06	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.35	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.06	0.75	0.00
12	0.00	0.00	0.00	0.00	0.47	0.00	1.61	0.02	0.80	0.00	0.80	0.00
13	0.00	0.00	0.66	0.00	0.00	0.00	1.34	0.00	0.18	0.00	0.59	0.01
14	0.23	0.00	0.44	0.00	0.01	0.00	0.00	0.00	1.06	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.35	0.14	0.00	0.00	1.53	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.04	1.51	0.00	0.00	0.07
17	0.00	0.00	0.24	0.04	0.00	0.00	0.00	0.03	0.00	0.67	0.22	1.34
18	0.00	0.51	0.00	0.18	0.00	0.10	0.00	0.03	0.00	0.50	0.92	0.00
19	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.02	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.25	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.30	0.00
24	0.00	0.17	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.11	0.05	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00
26	0.24	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.04	0.16	0.00	0.00
27	0.25	0.02	0.00	0.00	0.24	0.00	0.00	0.00	0.08	1.41	0.00	1.84
28	0.00	0.21	0.00	0.00	0.26	0.00	0.00	0.00	0.01	0.02	0.00	0.45
29	0.01	0.00	0.00	0.09	0.01	0.00	0.00	0.32	0.00	0.09	0.00	0.00
30	0.00	0.00	0.06	0.28	---	0.01	0.08	0.11	0.16	0.01	0.24	0.00
31	0.00	---	0.00	0.00	---	0.14	---	0.43	---	0.00	0.77	---
TOTAL	1.61	3.28	3.17	0.79	4.72	0.89	3.90	3.40	7.93	3.47	5.42	10.10



02151500 BROAD RIVER NEAR BOILING SPRINGS, NC

LOCATION.--Lat 35°12'39", long 81°41'51". Cleveland County, Hydrologic Unit 03050105, on right bank 0.5 mi upstream from Sandy Run Creek, 3 mi downstream of Second Broad River, and 3.5 mi southwest of Boiling Springs.

DRAINAGE AREA.--875 mi².

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-88: 1986(m).

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above NGVD of 1929 (Duke Power Company bench mark). Prior to July 20, 1934, at site 500 ft upstream at 640.92 ft. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation and some regulation caused by power plants upstream from station. Maximum discharge and gage height for period of record from former site, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 9	0800	37,000	17.48	Sep 18	0330	11,700	8.62

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,170	1,290	1,170	1,200	757	1,250	1,520	1,240	1,010	1,210	782	1,030
2	1,040	811	1,460	1,200	757	1,190	1,210	1,230	909	1,200	850	1,200
3	871	778	1,110	1,080	1,470	1,190	1,180	1,060	884	1,630	844	1,440
4	1,090	1,020	1,280	918	1,390	1,230	937	1,170	764	1,120	825	1,170
5	998	1,040	1,390	925	1,380	1,490	861	1,060	685	1,180	639	858
6	822	1,260	1,280	1,240	3,790	1,250	1,180	1,030	645	1,250	750	680
7	1,130	1,390	1,160	1,210	9,640	1,010	1,190	1,010	722	1,070	783	3,580
8	1,090	1,370	1,140	1,170	3,740	920	978	1,180	740	775	804	31,200
9	1,200	1,150	1,470	1,180	2,670	1,330	1,010	829	862	889	604	30,800
10	1,350	907	1,690	1,180	2,240	1,170	1,100	1,070	879	974	620	5,710
11	1,090	1,030	2,920	1,090	1,810	1,090	770	1,050	737	645	741	3,460
12	1,210	1,090	2,190	1,060	1,780	1,150	1,000	1,020	678	951	1,160	3,090
13	1,260	1,150	1,930	1,140	1,790	1,400	2,500	904	1,000	1,120	1,460	2,740
14	1,180	1,030	2,810	1,030	1,620	949	3,240	1,050	1,340	1,160	957	2,070
15	1,340	1,100	2,380	866	1,270	939	2,010	932	3,130	826	629	1,830
16	1,130	791	2,090	1,040	1,570	1,070	1,580	707	4,620	734	572	2,190
17	1,040	767	2,000	1,130	1,560	1,200	1,410	722	2,080	641	601	5,340
18	1,190	1,080	1,800	974	1,530	1,180	1,070	1,040	1,420	604	683	9,240
19	817	3,540	1,680	913	1,420	990	1,010	1,220	1,140	596	850	4,110
20	783	5,560	1,520	1,070	1,360	1,010	1,190	1,200	896	805	704	2,920
21	1,050	2,700	1,400	1,120	1,550	807	1,280	1,070	1,030	791	587	2,590
22	1,050	1,990	1,440	1,110	1,100	778	1,100	1,010	1,360	774	801	2,380
23	1,050	1,470	1,430	1,110	1,070	995	1,100	677	1,890	699	607	1,890
24	988	1,260	1,430	1,040	1,310	974	1,100	634	1,670	535	787	1,860
25	1,120	1,500	1,400	763	1,330	985	788	978	1,610	504	817	1,780
26	849	1,310	1,290	1,010	1,320	999	792	1,000	2,310	825	777	1,340
27	1,040	1,300	1,250	1,150	1,360	984	1,300	849	1,400	817	711	1,220
28	1,710	1,360	1,240	1,140	1,410	770	1,310	820	1,350	1,890	592	7,990
29	1,220	1,620	1,220	939	1,450	758	1,030	676	1,330	1,030	610	5,200
30	1,040	1,310	1,230	1,040	---	979	888	588	1,060	928	584	3,270
31	1,050	---	1,220	1,110	---	1,350	---	703	---	1,090	1,280	---
TOTAL	33,968	43,974	49,020	33,148	55,444	33,387	37,634	29,729	40,151	29,263	24,011	144,178
MEAN	1,096	1,466	1,581	1,069	1,912	1,077	1,254	959	1,338	944	775	4,806
MAX	1,710	5,560	2,920	1,240	9,640	1,490	3,240	1,240	4,620	1,890	1,460	31,200
MIN	783	767	1,110	763	757	758	770	588	645	504	572	680
CFSM	1.25	1.68	1.81	1.22	2.18	1.23	1.43	1.10	1.53	1.08	0.89	5.49
IN.	1.44	1.87	2.08	1.41	2.36	1.42	1.60	1.26	1.71	1.24	1.02	6.13

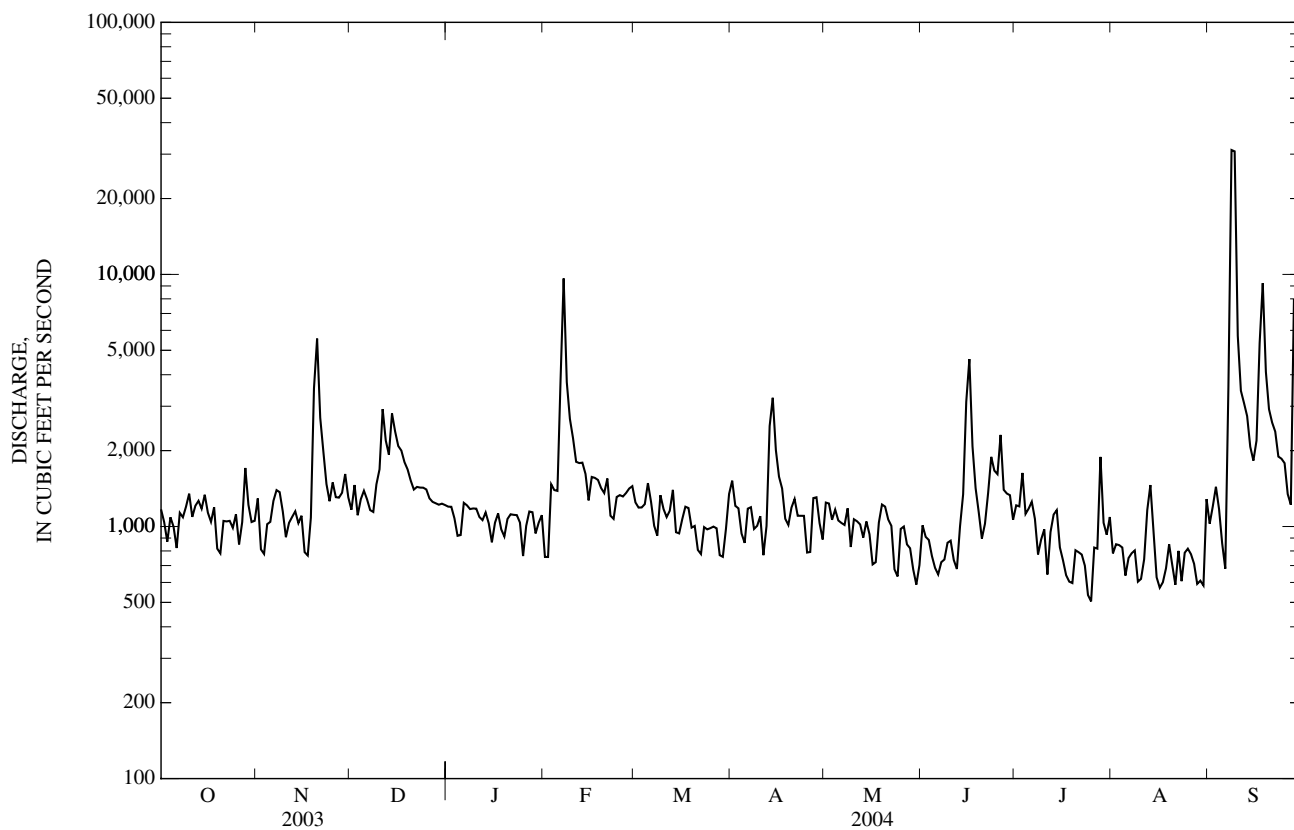
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

MEAN	1,245	1,213	1,434	1,727	1,885	2,080	1,919	1,540	1,304	1,099	1,211	1,096
MAX	5,499	3,275	2,875	4,750	4,304	4,868	4,525	3,441	2,812	2,505	6,893	4,806
(WY)	(1965)	(1993)	(1984)	(1937)	(1960)	(1975)	(1936)	(1973)	(1973)	(1949)	(1928)	(2004)
MIN	237	407	449	422	641	783	821	505	420	305	175	288
(WY)	(1955)	(1955)	(1956)	(1956)	(2001)	(1988)	(1986)	(2001)	(1988)	(2002)	(2002)	(1954)

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL TOTAL	755,620		553,907		1,480	
ANNUAL MEAN	2,070		1,513		2,328	
HIGHEST ANNUAL MEAN					578	1973
LOWEST ANNUAL MEAN					202	2002
HIGHEST DAILY MEAN	25,800	Mar 20	31,200	Sep 8	63,900	Aug 16, 1928
LOWEST DAILY MEAN	570	Jan 26	504	Jul 25	83	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	759	Jan 21	661	Aug 15	102	Sep 8, 2002
MAXIMUM PEAK FLOW			37,000	Sep 9	73,300*	Aug 16, 1928
MAXIMUM PEAK STAGE			17.48	Sep 9	24.30*	Aug 16, 1928
INSTANTANEOUS LOW FLOW			410	Jul 24	40	Oct 17, 1954
ANNUAL RUNOFF (CFSM)	2.37		1.73		1.69	
ANNUAL RUNOFF (INCHES)	32.12		23.55		22.98	
10 PERCENT EXCEEDS	3,420		2,070		2,490	
50 PERCENT EXCEEDS	1,510		1,120		1,160	
90 PERCENT EXCEEDS	911		741		553	

* See REMARKS.



02152100 FIRST BROAD RIVER NEAR CASAR, NC

LOCATION.--Lat 35°29'35", long 81°40'55", Cleveland County, Hydrologic Unit 03050105, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mi upstream from No Business Creek, and 4.0 mi southwest of Casar.

DRAINAGE AREA.--60.5 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-5. March 1959 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 899.87 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	69	61	58	53	66	83	97	63	427	53	60
2	73	68	58	57	52	66	70	113	52	385	52	55
3	71	69	57	57	113	64	65	91	48	337	52	50
4	73	68	64	57	94	63	61	77	49	254	48	46
5	72	77	81	60	77	62	57	70	49	169	46	45
6	71	97	71	65	838	63	55	65	46	123	45	46
7	74	83	65	55	598	60	54	60	46	103	42	259
8	74	79	62	54	214	58	55	57	69	89	41	5,870
9	86	72	60	56	143	57	53	116	65	81	41	907
10	81	69	133	56	118	58	51	81	52	74	41	317
11	79	69	207	55	102	57	52	66	57	72	40	187
12	78	70	109	55	104	57	127	125	64	72	65	139
13	74	67	89	56	97	55	452	226	306	68	63	117
14	76	64	186	56	93	55	318	123	110	63	48	107
15	85	65	141	56	90	57	161	93	161	59	46	97
16	72	66	113	54	88	63	119	77	361	56	45	92
17	71	66	110	53	80	58	99	77	147	56	43	178
18	71	67	98	60	78	58	88	84	99	61	96	195
19	71	281	88	61	76	61	81	74	82	99	53	116
20	69	130	79	54	74	55	77	69	69	61	47	94
21	70	86	73	52	72	55	73	63	92	56	48	86
22	69	73	71	52	69	53	69	59	153	53	53	80
23	67	68	69	52	66	52	66	57	136	52	48	75
24	68	69	69	52	66	52	64	55	206	50	104	72
25	67	67	65	53	65	52	62	53	148	52	80	69
26	70	63	63	56	64	52	70	51	215	52	55	67
27	102	61	61	52	67	52	76	51	143	59	49	74
28	78	68	60	52	66	52	61	49	120	103	55	587
29	73	70	60	52	68	e52	59	49	107	60	65	214
30	70	63	62	54	---	52	58	63	734	66	52	131
31	68	---	59	55	---	76	---	79	---	58	56	---
TOTAL	2,297	2,384	2,644	1,717	3,785	1,793	2,836	2,470	4,049	3,370	1,672	10,432
MEAN	74.1	79.5	85.3	55.4	131	57.8	94.5	79.7	135	109	53.9	348
MAX	102	281	207	65	838	76	452	226	734	427	104	5,870
MIN	67	61	57	52	52	52	51	49	46	50	40	45
CFSM	1.22	1.31	1.41	0.92	2.16	0.96	1.56	1.32	2.23	1.80	0.89	5.75
IN.	1.41	1.47	1.63	1.06	2.33	1.10	1.74	1.52	2.49	2.07	1.03	6.41

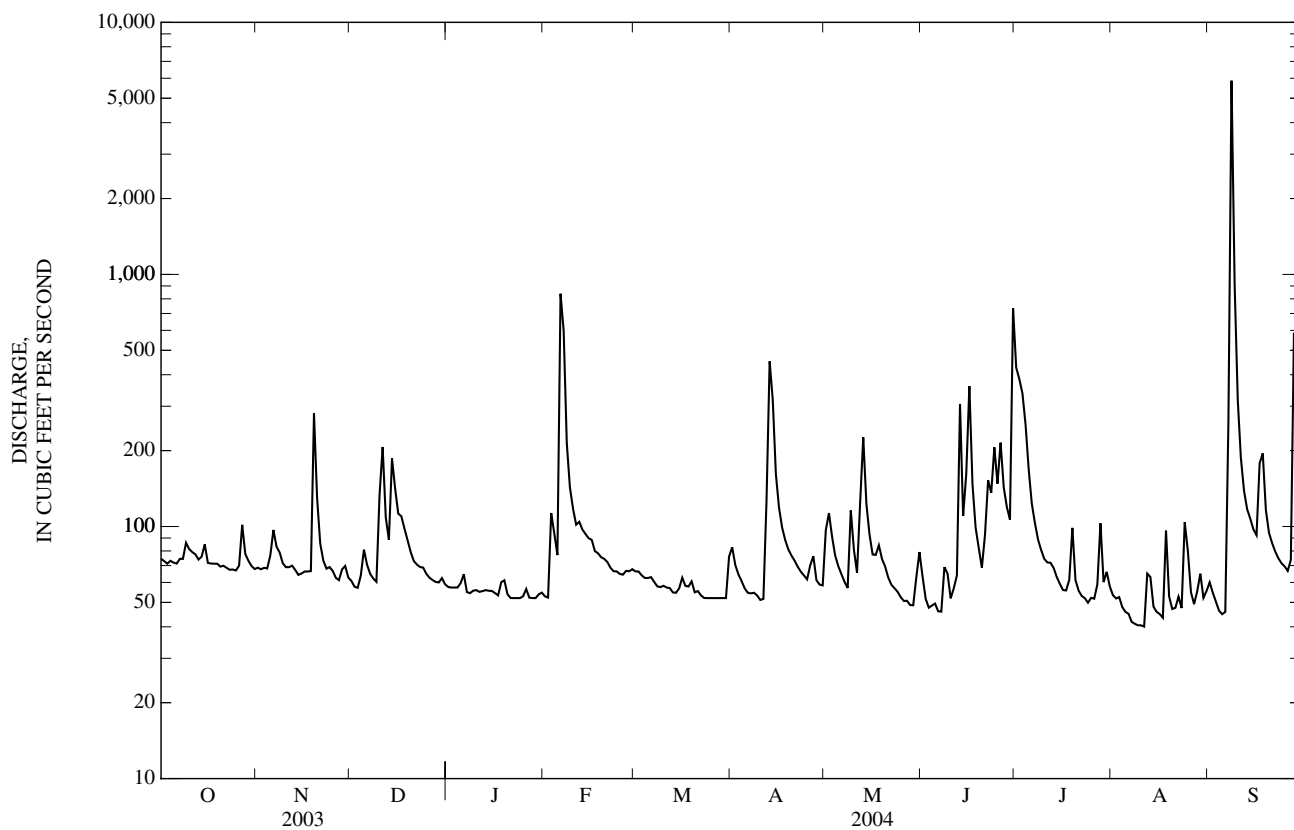
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	71.8	67.0	82.3	101	120	135	126	96.9	81.6	65.1	67.5	60.2
MAX	318	191	185	273	286	386	300	254	261	243	262	348
(WY)	(1965)	(1978)	(1962)	(1995)	(1960)	(1975)	(2003)	(1975)	(2003)	(2003)	(1970)	(2004)
MIN	17.4	17.2	22.7	30.9	37.8	44.6	36.1	18.3	14.9	11.4	8.09	21.0
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(1988)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

02152100 FIRST BROAD RIVER NEAR CASAR, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	56,154		39,449			
ANNUAL MEAN	154		108		89.5	
HIGHEST ANNUAL MEAN					152	2003
LOWEST ANNUAL MEAN					26.8	2002
HIGHEST DAILY MEAN	2,550	Jul 13	5,870	Sep 8	5,870	Sep 8, 2004
LOWEST DAILY MEAN	33	Jan 27	40	Aug 11	3.9	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	36	Jan 22	42	Aug 5	4.1	Aug 9, 2002
MAXIMUM PEAK FLOW			12,500	Sep 8	12,500	Sep 8, 2004
MAXIMUM PEAK STAGE			19.89	Sep 8	19.89	Sep 8, 2004
INSTANTANEOUS LOW FLOW			38	Aug 11	3.6	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.54		1.78		1.48	
ANNUAL RUNOFF (INCHES)	34.53		24.26		20.09	
10 PERCENT EXCEEDS	268		140		148	
50 PERCENT EXCEEDS	98		67		63	
90 PERCENT EXCEEDS	56		52		31	

e Estimated.



351954080493445 CRN02

LOCATION.--Lat 35°19'54", long 80°49'35", Mecklenburg County, Hydrologic Unit 03050101, Fire Station 28, Old Statesville Road, Charlotte, NC.

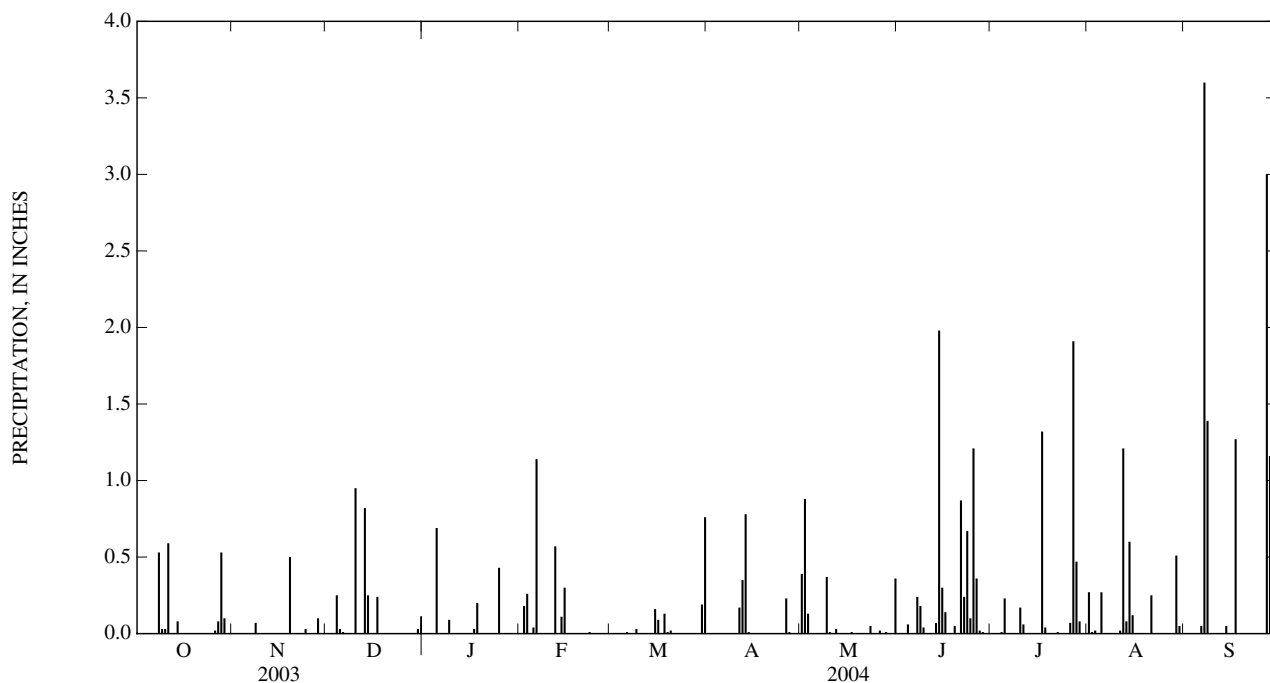
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.27	0.00
2	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.88	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.13	0.00	0.00	0.02	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00
5	0.00	0.00	0.03	0.69	0.04	0.00	0.00	0.00	0.00	0.23	0.27	0.00
6	0.00	0.00	0.01	0.00	1.14	0.01	0.00	0.00	0.00	0.00	0.00	0.05
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	3.60
8	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	1.39
9	0.03	0.00	0.00	0.09	0.00	0.03	0.00	0.37	0.04	0.00	0.00	0.00
10	0.03	0.00	0.95	0.00	0.00	0.00	0.00	0.01	0.00	0.17	0.00	0.00
11	0.59	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.06	0.02	0.00
12	0.00	0.00	0.00	0.00	0.57	0.00	0.35	0.03	0.00	0.00	1.21	0.00
13	0.00	0.00	0.82	0.00	0.00	0.00	0.78	0.00	0.07	0.00	0.08	0.00
14	0.08	0.00	0.25	0.00	0.11	0.00	0.01	0.00	1.98	0.00	0.60	0.05
15	0.00	0.00	0.00	0.00	0.30	0.16	0.00	0.00	0.30	0.00	0.12	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.14	0.00	0.00	0.00
17	0.00	0.00	0.24	0.03	0.00	0.00	0.00	0.01	0.00	1.32	0.00	1.27
18	0.00	0.00	0.00	0.20	0.00	0.13	0.00	0.00	0.00	0.04	0.00	0.00
19	0.00	0.50	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.25	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.67	0.00	0.00	0.00
24	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
25	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.00
26	0.02	0.00	0.00	0.00	---	0.00	0.23	0.02	0.36	0.07	0.00	0.00
27	0.08	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.91	0.00	3.00
28	0.53	0.10	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.47	0.00	1.16
29	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.51	0.00
30	0.00	0.00	0.03	0.00	---	0.19	0.00	0.00	0.00	0.00	0.05	0.00
31	0.00	---	0.00	0.00	---	0.76	---	0.36	---	0.00	0.00	---
TOTAL	1.99	0.70	2.58	1.44	---	1.40	1.55	2.26	6.54	4.37	3.41	10.52



351132080562345 CRN04

LOCATION.--Lat 35°11'34", long 80°56'09", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 30, Belle Oaks Road, Charlotte, NC.

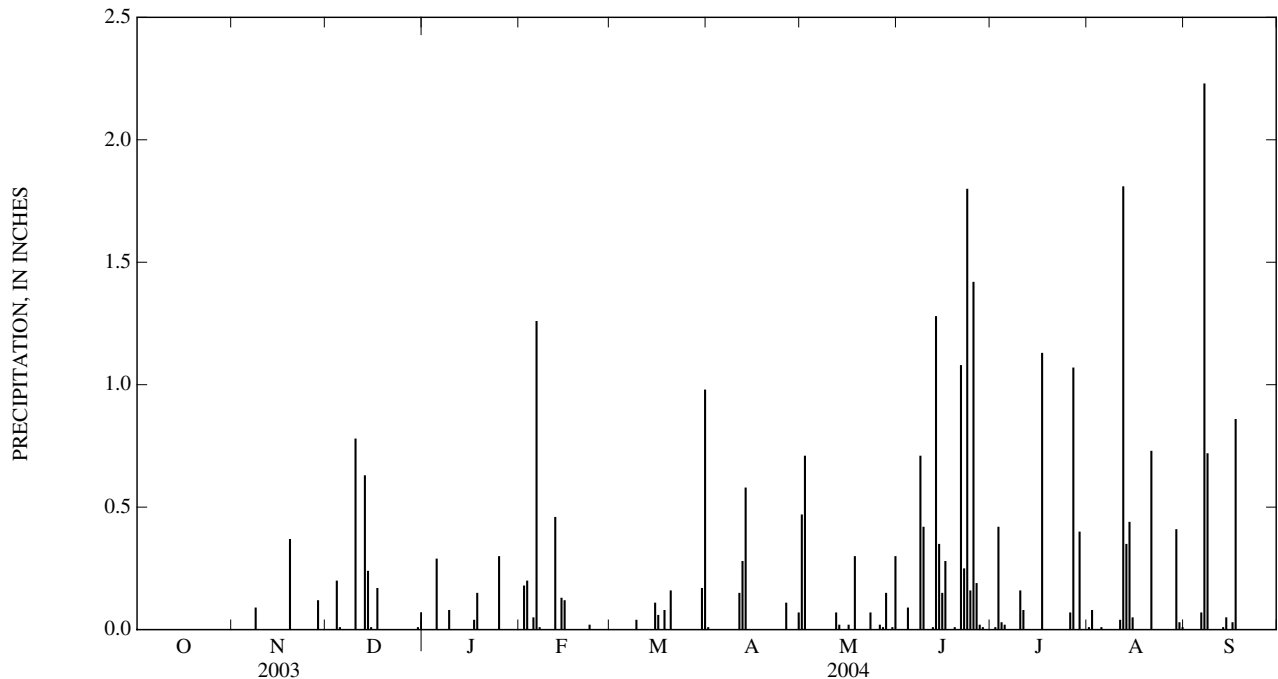
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.47	0.00	0.00	0.01	0.00
2	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.71	0.00	0.01	0.08	0.00
3	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.42	0.00	0.00
4	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.09	0.03	0.00	0.00
5	0.00	0.00	0.01	0.29	0.05	0.00	0.00	0.00	0.00	0.02	0.01	0.00
6	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.07
7	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.23
8	---	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.72
9	---	0.00	0.00	0.08	0.00	0.04	0.00	0.00	0.42	0.00	0.00	0.00
10	---	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00
11	---	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.08	0.04	0.00
12	---	0.00	0.00	0.00	0.46	0.00	0.28	0.07	0.01	0.00	1.81	0.00
13	---	0.00	0.63	0.00	0.00	0.00	0.58	0.02	1.28	0.00	0.35	0.01
14	---	0.00	0.24	0.00	0.13	0.00	0.00	0.00	0.35	0.00	0.44	0.05
15	---	0.00	0.01	0.00	0.12	0.11	0.00	0.00	0.15	0.00	0.05	0.00
16	---	0.00	0.00	0.00	0.00	0.06	0.00	0.02	0.28	0.00	0.00	0.03
17	---	0.00	0.17	0.04	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.86
18	---	0.00	0.00	0.15	0.00	0.08	0.00	0.30	0.00	0.00	0.00	0.00
19	---	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	---	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.73	0.00
22	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
23	---	0.00	0.00	0.00	0.02	0.00	0.00	0.07	1.80	0.00	0.00	0.00
24	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
25	---	0.00	0.00	0.30	0.00	0.00	0.00	0.00	1.42	0.00	0.00	---
26	---	0.00	0.00	0.00	---	0.00	0.11	0.02	0.19	0.07	0.00	---
27	---	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	1.07	0.00	---
28	---	0.12	0.00	0.00	0.00	0.00	0.00	0.15	0.01	0.00	0.00	---
29	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.41	---
30	0.00	0.00	0.01	0.00	---	0.17	0.07	0.01	0.00	0.00	0.03	---
31	0.00	---	0.00	0.00	---	0.98	---	0.30	---	0.00	0.01	---
TOTAL	---	0.58	2.05	0.86	---	1.60	1.20	2.15	8.23	3.39	3.97	---



351642080533445 CRN05

LOCATION.--Lat 35°16'42", long 80°53'34", Mecklenburg County, Hydrologic Unit 03050103, CMUD Administration Building, Brookshire Boulevard, Charlotte, NC.

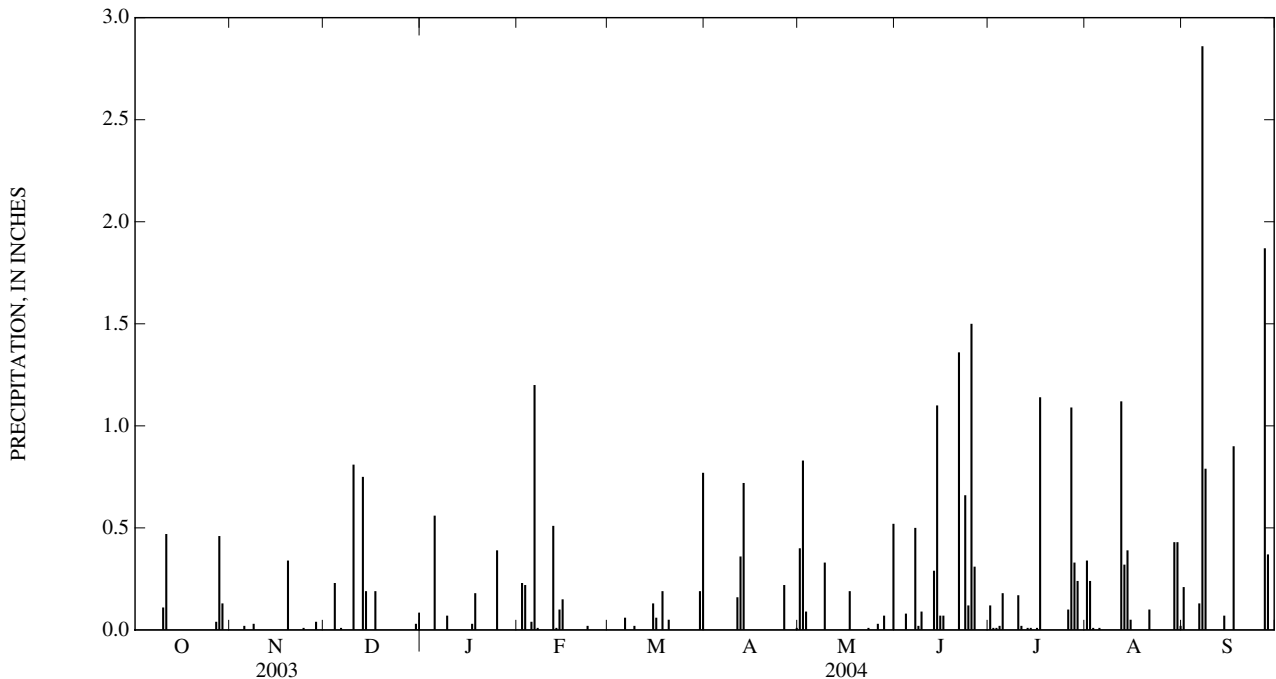
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.12	0.34	0.21
2	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.83	0.00	0.01	0.24	0.00
3	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.09	0.00	0.01	0.01	0.00
4	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.08	0.02	0.00	0.00
5	---	0.02	0.00	0.56	0.04	0.00	0.00	0.00	0.00	0.18	0.01	0.00
6	---	0.00	0.01	0.00	1.20	0.06	0.00	0.00	0.00	0.00	0.00	0.13
7	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.50	0.00	0.00	2.86
8	---	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.79
9	---	0.00	0.00	0.07	0.00	0.02	0.00	0.33	0.09	0.00	0.00	0.00
10	0.11	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00
11	0.47	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.02	0.00	0.00
12	0.00	0.00	0.00	0.00	0.51	0.00	0.36	0.00	0.00	0.00	1.12	0.00
13	0.00	0.00	0.75	0.00	0.01	0.00	0.72	0.00	0.29	0.01	0.32	0.00
14	0.00	0.00	0.19	0.00	0.10	0.00	0.00	0.00	1.10	0.01	0.39	0.07
15	0.00	0.00	0.00	0.00	0.15	0.13	0.00	0.00	0.07	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.07	0.01	0.00	0.00
17	0.00	0.00	0.19	0.03	0.00	0.00	0.00	0.19	0.00	1.14	0.00	0.90
18	0.00	0.00	0.00	0.18	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	---	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	---	0.10	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.66	---	0.00	0.00
24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	---	0.00	0.00
25	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	1.50	---	0.00	0.00
26	0.00	0.00	0.00	0.00	---	0.00	0.22	0.03	0.31	0.10	0.00	0.00
27	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.00	1.87
28	0.46	0.04	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.33	0.00	0.37
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.43	0.00
30	0.00	0.00	0.03	0.00	---	0.19	0.01	0.00	0.00	0.00	0.43	0.00
31	0.00	---	0.00	0.00	---	0.77	---	0.52	---	0.00	0.02	---
TOTAL	---	0.44	2.21	1.23	---	1.47	1.47	2.47	6.17	---	3.46	7.20



350351080454145 CRN07

LOCATION.--Lat 35°03'51", long 80°45'41", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 9, McKee Road, Charlotte, NC.

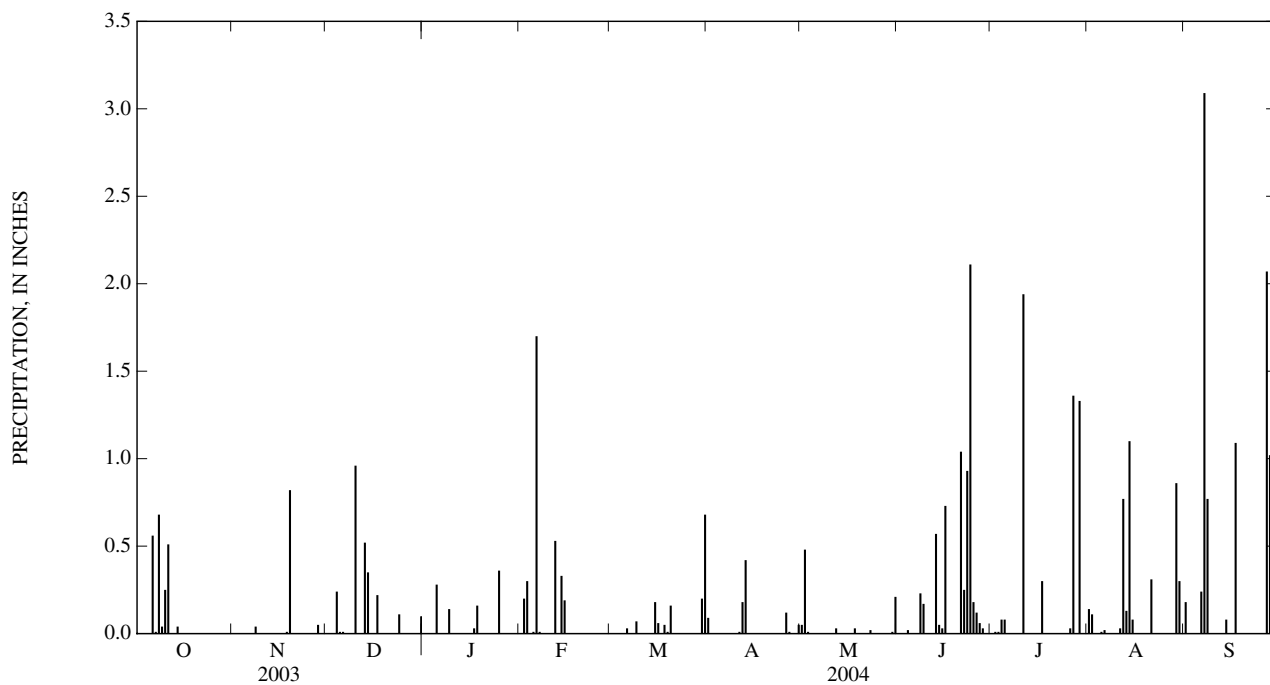
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05	0.00	0.00	0.14	0.18
2	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.48	0.00	0.01	0.11	0.00
3	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.01	0.00	0.01	0.00	0.00
4	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.00
5	0.00	0.00	0.01	0.28	0.01	0.00	0.00	0.00	0.00	0.08	0.01	0.00
6	0.56	0.00	0.01	0.00	1.70	0.03	0.00	0.00	0.00	0.00	0.02	0.24
7	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	3.09
8	0.68	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.77
9	0.04	0.00	0.00	0.14	0.00	0.07	0.00	0.00	0.17	0.00	0.00	0.00
10	0.25	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.51	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.94	0.03	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.18	0.03	0.00	0.00	0.77	0.00
13	0.00	0.00	0.52	0.00	0.00	0.00	0.42	0.00	0.57	0.00	0.13	0.00
14	0.04	0.00	0.35	0.00	0.33	0.00	0.00	0.00	0.05	0.00	1.10	0.08
15	0.00	0.00	0.00	0.00	0.19	0.18	0.00	0.00	0.03	0.00	0.08	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.73	0.00	0.00	0.00
17	0.00	0.00	0.22	0.03	0.00	0.00	0.00	0.00	0.00	0.30	0.00	1.09
18	0.00	0.01	0.00	0.16	0.00	0.05	0.00	0.03	0.00	0.00	0.00	0.00
19	0.00	0.82	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.31	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.93	0.00	0.00	0.00
24	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	2.11	0.00	0.00	0.00
25	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	---	0.00	0.12	0.00	0.12	0.03	0.00	0.00
27	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	1.36	0.00	2.07
28	---	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.02
29	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.86	0.00
30	0.00	0.00	0.00	0.00	---	0.20	0.05	0.01	0.00	0.00	0.30	0.00
31	0.00	---	0.00	0.00	---	0.68	---	0.21	---	0.00	0.00	---
TOTAL	---	0.92	2.42	0.97	---	1.44	0.88	0.84	6.52	5.14	3.86	8.54



350314080484945 CRN08

LOCATION.--Lat 35°03'22", long 80°48'51", Mecklenburg County, Hydrologic Unit 03050103, St. Matthews Catholic Church, Ballantyne Commons Parkway, Charlotte, NC.

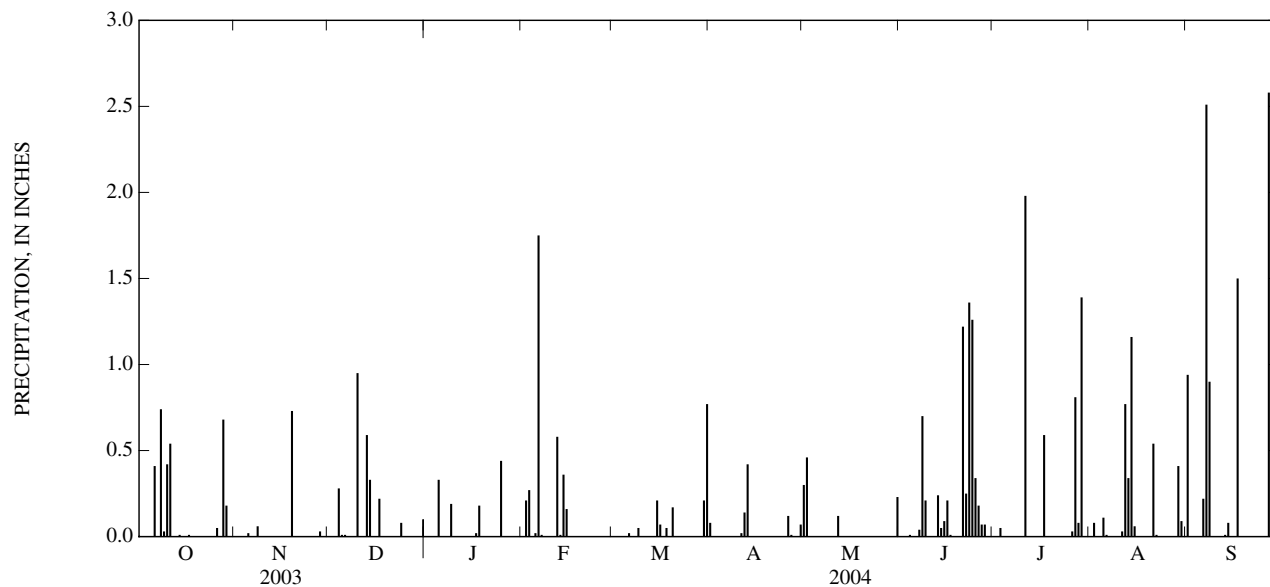
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273. Records for August 4, 1994 to August 15, 2001 at site Tipton Rest Home, Charlotte, NC. Records for October 1992 to August 4, 1994 at site McAlpine Creek Elementary School, Charlotte, NC (station 350458080493245).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station. Prior to August 16, 2001, gage located on Elm Lane at intersection of Providence Road West, Charlotte.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.30	0.00	0.00	0.00	0.94
2	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.46	0.00	0.00	0.08	0.00
3	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.05	0.00	0.00
4	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
5	0.00	0.02	0.01	0.33	0.02	0.00	0.00	0.00	0.00	0.00	0.11	0.00
6	0.41	0.00	0.01	0.00	1.75	0.02	0.00	0.00	0.00	0.00	0.01	0.22
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00	2.51
8	0.74	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.90
9	0.03	0.00	0.00	0.19	0.00	0.05	0.00	0.00	0.21	0.00	0.00	0.00
10	0.42	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.54	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.98	0.03	0.00
12	0.00	0.00	0.00	0.00	0.58	0.00	0.14	0.12	0.00	0.00	0.77	0.00
13	0.00	0.00	0.59	0.00	0.01	0.00	0.42	0.00	0.24	0.00	0.34	0.01
14	0.01	0.00	0.33	0.00	0.36	0.00	0.00	0.00	0.05	0.00	1.16	0.08
15	0.00	0.00	0.00	0.00	0.16	0.21	0.00	0.00	0.09	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.21	0.00	0.00	0.00
17	0.01	0.00	0.22	0.02	0.00	0.00	0.00	0.00	0.01	0.59	0.00	1.50
18	0.00	0.00	0.00	0.18	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.54	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.01	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00
24	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00
25	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00
26	0.05	0.00	0.00	0.00	---	0.00	0.12	0.00	0.18	0.03	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.81	0.00	2.58
28	0.68	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	0.00	0.57
29	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	0.41	0.00
30	0.00	0.00	0.00	0.00	---	0.21	0.07	0.00	0.00	0.00	0.09	0.00
31	0.00	---	0.00	0.00	---	0.77	---	0.23	---	0.00	0.00	---
TOTAL	3.07	0.84	2.47	1.16	---	1.55	0.86	1.11	6.31	4.93	3.61	9.31



351414080463245 CRN09

LOCATION.--Lat 35°14'15", long 80°46'31", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 15, Frontenac Road, Charlotte, NC.

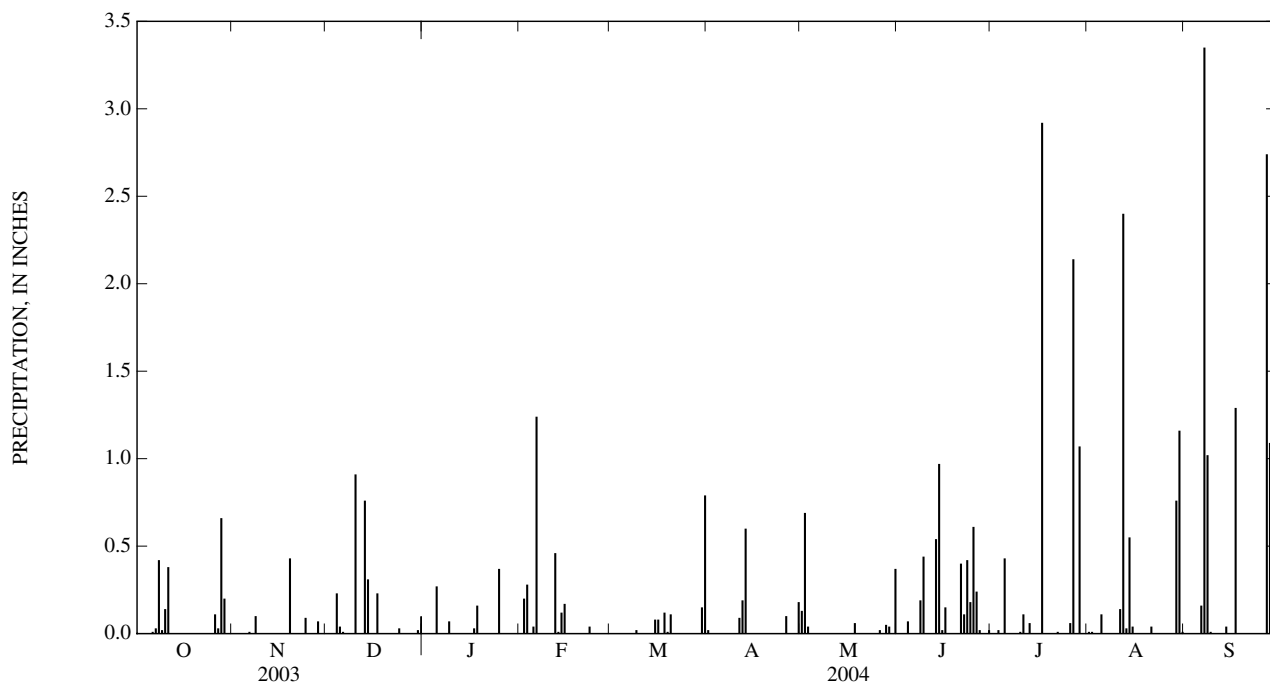
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.00	0.00	0.01	0.00
2	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.69	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.04	0.00	0.02	0.00	0.00
4	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
5	0.00	0.00	0.04	0.27	0.04	0.00	0.00	0.00	0.00	0.43	0.11	0.00
6	0.01	0.01	0.01	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.16
7	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.35
8	0.42	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	1.02
9	0.02	0.00	0.00	0.07	0.00	0.02	0.00	0.00	0.44	0.00	0.00	0.01
10	0.14	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.38	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.11	0.14	0.00
12	0.00	0.00	0.00	0.00	0.46	0.00	0.19	0.00	0.00	0.00	2.40	0.00
13	0.00	0.00	0.76	0.00	0.01	0.00	0.60	0.00	0.54	0.06	0.03	0.00
14	0.00	0.00	0.31	0.00	0.12	0.00	0.00	0.00	0.97	0.00	0.55	0.04
15	0.00	0.00	0.00	0.00	0.17	0.08	0.00	0.00	0.02	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.15	0.00	0.00	0.00
17	0.00	0.00	0.23	0.03	0.00	0.00	0.00	0.00	0.00	2.92	0.00	1.29
18	0.00	0.00	0.00	0.16	0.00	0.12	0.00	0.06	0.00	0.00	0.00	0.00
19	0.00	0.43	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.04	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.42	0.00	0.00	0.00
24	0.00	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00
25	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00
26	0.11	0.00	0.00	0.00	---	0.00	0.10	0.02	0.24	0.06	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.14	0.00	2.74
28	0.66	0.07	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	1.09
29	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	1.07	0.76	0.00
30	0.00	0.00	0.02	0.00	---	0.15	0.18	0.00	0.02	0.00	1.16	0.00
31	0.00	---	0.00	0.00	---	0.79	---	0.37	---	0.00	0.01	---
TOTAL	2.00	0.70	2.54	0.90	---	1.36	1.18	1.40	4.38	6.83	5.26	9.70



351331080525945 CRN11

LOCATION.--Lat 35°13'31", long 80°52'59", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 10, Remount Road, Charlotte, NC.

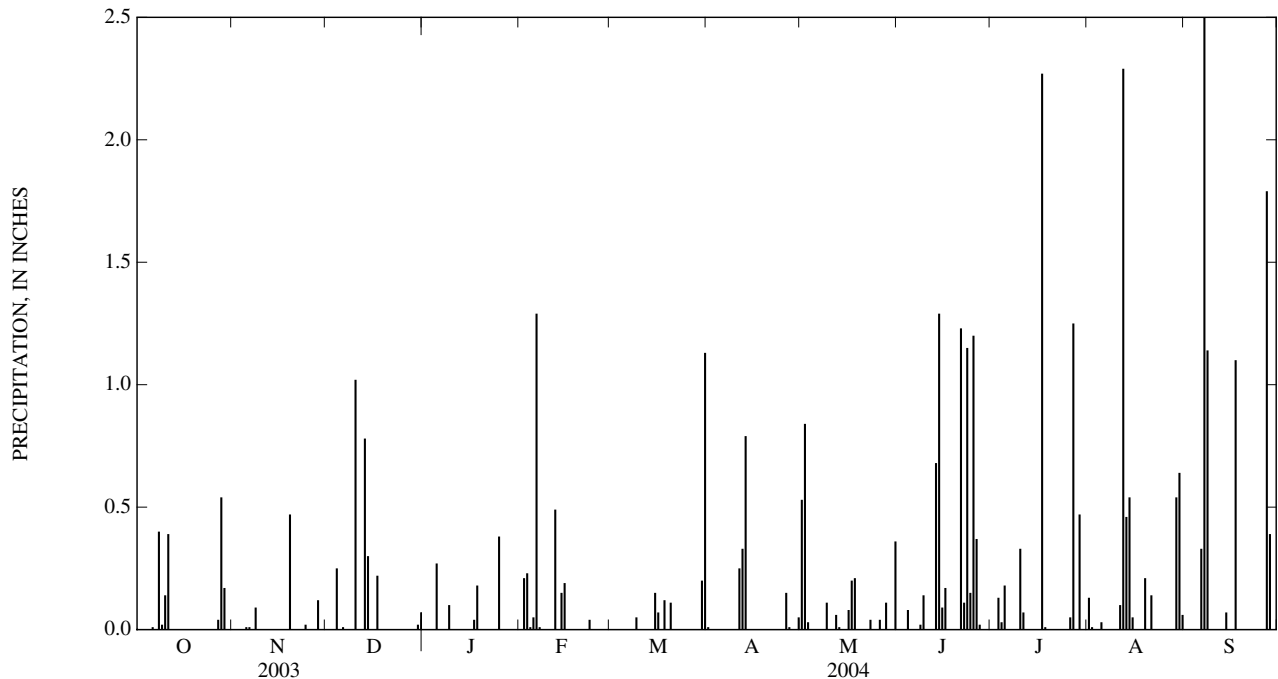
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.53	0.00	0.00	0.13	0.00
2	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.84	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.03	0.00	0.13	0.00	0.00
4	0.00	0.00	0.25	0.00	0.01	0.00	0.00	0.00	0.08	0.03	0.00	0.00
5	0.00	0.01	0.00	0.27	0.05	0.00	0.00	0.00	0.00	0.18	0.03	0.00
6	0.01	0.01	0.01	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.33
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.50
8	0.40	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.14
9	0.02	0.00	0.00	0.10	0.00	0.05	0.00	0.11	0.14	0.00	0.00	0.00
10	0.14	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00
11	0.39	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.07	0.10	0.00
12	0.00	0.00	0.00	0.00	0.49	0.00	0.33	0.06	0.00	0.00	2.29	0.00
13	0.00	0.00	0.78	0.00	0.00	0.00	0.79	0.01	0.68	0.00	0.46	0.00
14	0.00	0.00	0.30	0.00	0.15	0.00	0.00	0.00	1.29	0.00	0.54	0.07
15	0.00	0.00	0.00	0.00	0.19	0.15	0.00	0.00	0.09	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.08	0.17	0.00	0.00	0.00
17	0.00	0.00	0.22	0.04	0.00	0.00	0.00	0.20	0.00	2.27	0.00	1.10
18	0.00	0.00	0.00	0.18	0.00	0.12	0.00	0.21	0.00	0.01	0.00	0.00
19	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
20	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.14	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.04	1.15	0.00	0.00	0.00
24	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
25	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	---	0.00	0.15	0.04	0.37	0.05	0.00	0.00
27	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.25	0.00	1.79
28	0.54	0.12	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.39
29	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.54	0.00
30	0.00	0.00	0.02	0.00	---	0.20	0.05	0.00	0.00	0.00	0.64	0.00
31	0.00	---	0.00	0.00	---	1.13	---	0.36	---	0.00	0.06	---
TOTAL	1.71	0.72	2.60	0.97	---	1.83	1.59	2.62	6.70	4.79	5.20	7.32



350823080505345 CRN12

LOCATION.--Lat 35°08'24", long 80°50'51", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 16, Park South Drive, Charlotte, NC.

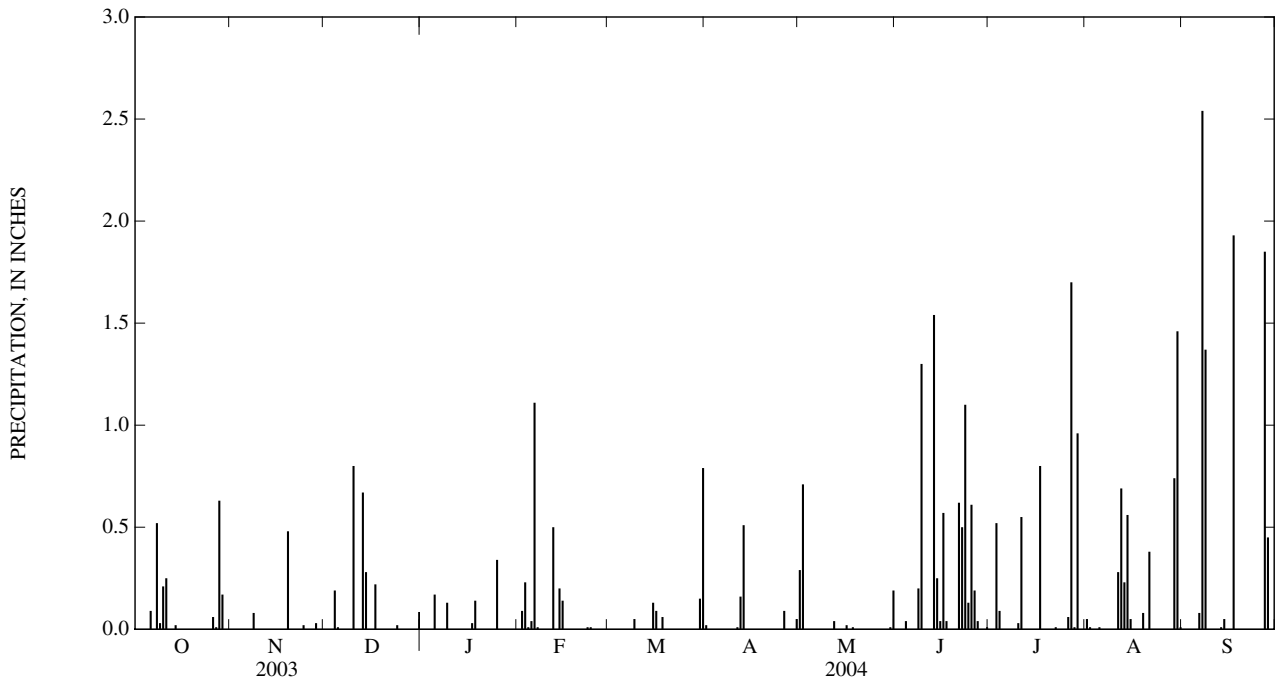
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.29	0.00	0.00	0.05	0.00
2	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.71	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.52	0.00	0.00
4	0.00	0.00	0.19	0.00	0.01	0.00	0.00	0.00	0.04	0.09	0.00	0.00
5	0.00	0.00	0.01	0.17	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00
6	0.09	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.08
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.54
8	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	1.37
9	0.03	0.00	0.00	0.13	0.00	0.05	0.00	0.00	1.30	0.00	0.00	0.00
10	0.21	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
11	0.25	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.55	0.28	0.00
12	0.00	0.00	0.00	0.00	0.50	0.00	0.16	0.04	0.00	0.00	0.69	0.00
13	0.00	0.00	0.67	0.00	0.00	0.00	0.51	0.00	1.54	0.00	0.23	0.01
14	0.02	0.00	0.28	0.00	0.20	0.00	0.00	0.00	0.25	0.00	0.56	0.05
15	0.00	0.00	0.00	0.00	0.14	0.13	0.00	0.00	0.04	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.02	0.57	0.00	0.00	0.00
17	0.00	0.00	0.22	0.03	0.00	0.00	0.00	0.00	0.04	0.80	0.00	1.93
18	0.00	0.00	0.00	0.14	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00
19	0.00	0.48	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.08	0.00
20	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.38	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.10	0.00	0.00	0.00
24	0.00	0.02	0.02	0.00	0.01	0.00	0.00	0.00	0.13	0.00	0.00	0.00
25	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00
26	0.06	0.00	0.00	0.00	---	0.00	0.09	0.00	0.19	0.06	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.70	0.00	1.85
28	0.63	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.45
29	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.74	0.00
30	0.00	0.00	0.00	0.00	---	0.15	0.05	0.01	0.01	0.00	1.46	0.00
31	0.00	---	0.00	0.00	---	0.79	---	0.19	---	0.00	0.01	---
TOTAL	1.99	0.61	2.19	0.81	---	---	0.84	1.27	7.18	4.73	4.55	8.28



350947080524945 CRN13

LOCATION.--Lat 35°09'47", long 80°52'49", Mecklenburg County, Hydrologic Unit 03050103, U.S. Geological Survey Office, Tyvola Road, Charlotte, NC.

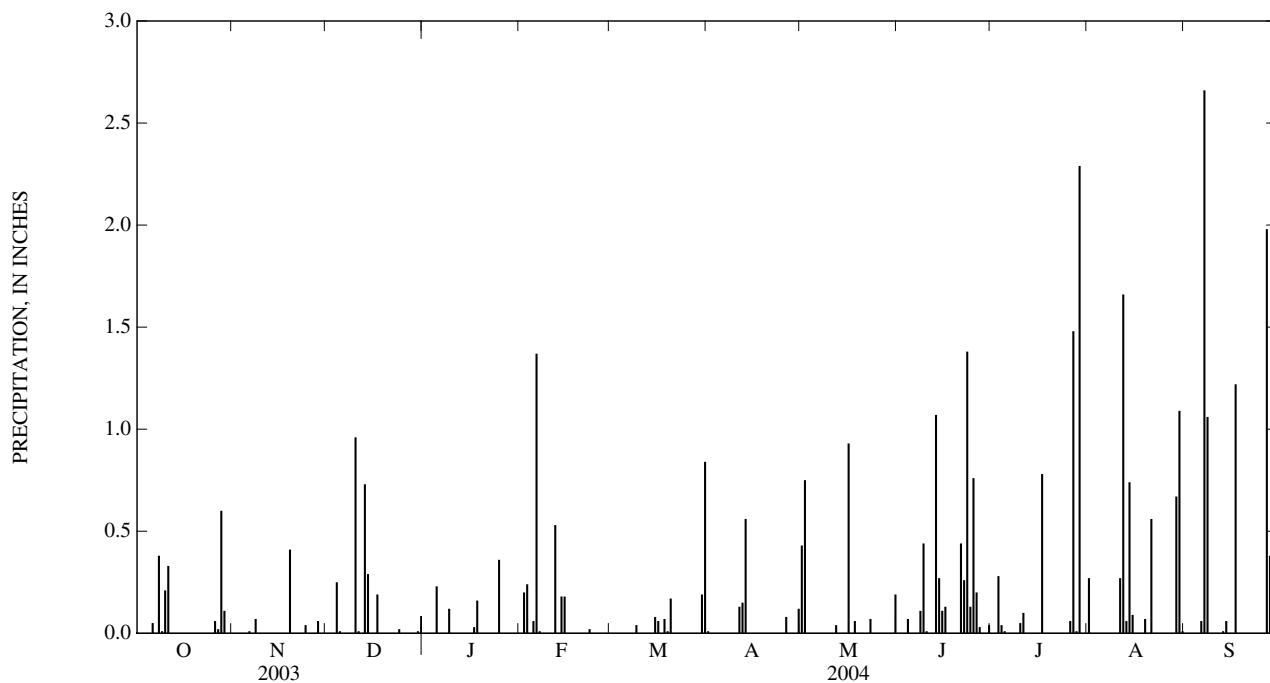
PERIOD OF RECORD.--May 1993 to current year. Records for period May 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.43	0.00	0.00	0.27	0.00
2	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.75	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.28	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.00	0.00
5	0.00	0.00	0.01	0.23	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00
6	0.05	0.01	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.06
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.66
8	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	1.06
9	0.01	0.00	0.00	0.12	0.00	0.04	0.00	0.00	0.44	0.00	0.00	0.00
10	0.21	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00
11	0.33	0.00	0.01	0.00	0.00	0.00	0.13	0.00	0.00	0.10	0.27	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.15	0.04	0.00	0.00	1.66	0.00
13	0.00	0.00	0.73	0.00	0.00	0.00	0.56	0.00	1.07	0.00	0.06	0.01
14	0.00	0.00	0.29	0.00	0.18	0.00	0.00	0.00	0.27	0.00	0.74	0.06
15	0.00	0.00	0.00	0.00	0.18	0.08	0.00	0.00	0.11	0.00	0.09	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.93	0.13	0.00	0.00	0.00
17	0.00	0.00	0.19	0.03	0.00	0.00	0.00	0.00	0.00	0.78	0.00	1.22
18	0.00	0.00	0.00	0.16	0.00	0.07	0.00	0.06	0.00	0.00	0.00	0.00
19	0.00	0.41	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.07	0.00
20	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.56	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.07	1.38	0.00	0.00	0.00
24	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
25	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00
26	0.06	0.00	0.00	0.00	---	0.00	0.08	0.00	0.20	0.06	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.48	0.00	1.98
28	0.60	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.38
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29	0.67	0.00
30	0.00	0.00	0.01	0.00	---	0.19	0.12	0.00	0.04	0.00	1.09	0.00
31	0.00	---	0.00	0.00	---	0.84	---	0.19	---	0.00	0.01	---
TOTAL	1.77	0.59	2.47	0.90	---	1.46	1.05	2.47	5.45	5.10	5.49	7.43



351553080562645 CRN14

LOCATION.--Lat 35°15'53", long 80°56'23", Mecklenburg County, Hydrologic Unit 03050101, Fire Station 21, Little Rock Road, Charlotte, NC.

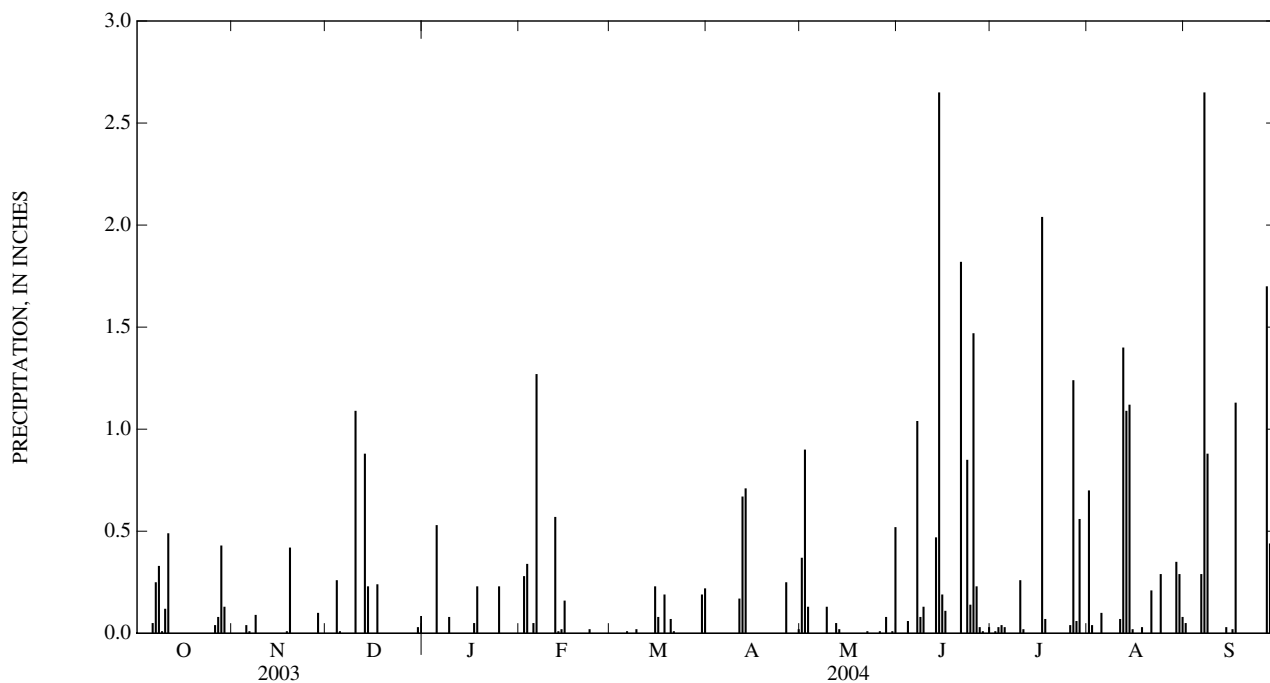
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.70	0.05
2	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.90	0.00	0.01	0.04	0.00
3	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.13	0.00	0.03	0.00	0.00
4	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.06	0.04	0.00	0.00
5	0.00	0.04	0.01	0.53	0.05	0.00	0.00	0.00	0.00	0.03	0.10	0.00
6	0.05	0.01	0.00	0.00	1.27	0.01	0.00	0.00	0.00	0.00	0.00	0.29
7	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	2.65
8	0.33	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.88
9	0.01	0.00	0.00	0.08	0.00	0.02	0.00	0.13	0.13	0.00	0.00	0.00
10	0.12	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00
11	0.49	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.02	0.07	0.00
12	0.00	0.00	0.00	0.00	0.57	0.00	0.67	0.05	0.00	0.00	1.40	0.00
13	0.00	0.00	0.88	0.00	0.01	0.00	0.71	0.02	0.47	0.00	1.09	0.00
14	0.00	0.00	0.23	0.00	0.02	0.00	0.00	0.00	2.65	0.00	1.12	0.03
15	0.00	0.00	0.00	0.00	0.16	0.23	0.00	0.00	0.19	0.00	0.02	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.11	0.00	0.00	0.02
17	0.00	0.00	0.24	0.05	0.00	0.00	0.00	0.00	0.00	2.04	0.00	1.13
18	0.00	0.01	0.00	0.23	0.00	0.19	0.00	0.00	0.00	0.07	0.03	0.00
19	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.82	0.00	0.21	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.85	0.00	0.00	0.00
24	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.29	0.00
25	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.25	0.01	0.23	0.04	0.00	0.00
27	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.24	0.00	1.70
28	0.43	0.10	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.06	0.00	0.44
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.35	0.00
30	0.00	0.00	0.03	0.00	---	0.19	0.02	0.01	0.03	0.00	0.29	0.00
31	0.00	---	0.00	0.00	---	0.22	---	0.52	---	0.00	0.08	---
TOTAL	1.93	---	2.74	1.12	---	1.02	1.82	2.23	9.31	4.40	5.79	7.19



351320080502645 CRN15

LOCATION.--Lat 35°13'17", long 80°50'23", Mecklenburg County, Hydrologic Unit 03050103, Charlotte Mecklenburg Government Center, East Fourth Street, Charlotte, NC.

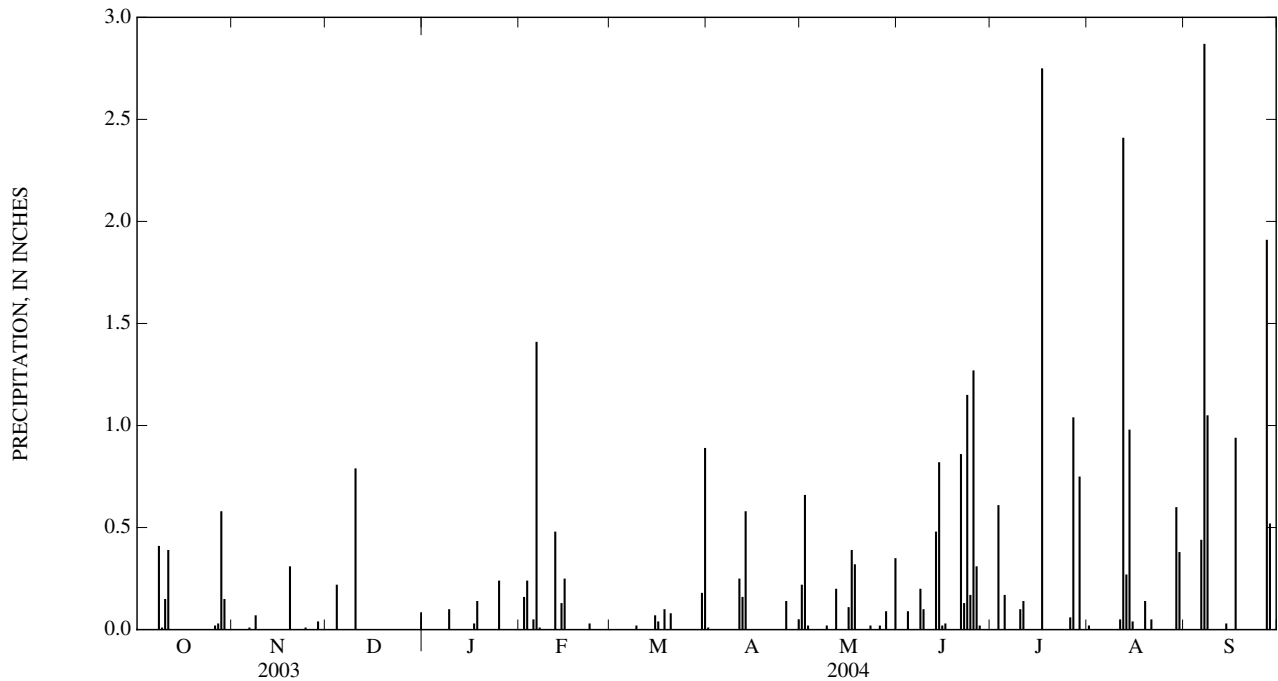
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	0.00	0.00	0.01	0.22	0.00	0.00	0.02	0.00
2	0.00	0.00	0.00	---	0.16	0.00	0.00	0.66	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	---	0.24	0.00	0.00	0.02	0.00	0.61	0.00	0.00
4	0.00	0.00	0.22	---	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
5	0.00	0.00	0.00	---	0.05	0.00	0.00	0.00	0.00	0.17	0.00	0.00
6	0.00	0.01	0.00	---	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.44
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.87
8	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	1.05
9	0.01	0.00	0.00	0.10	0.00	0.02	0.00	0.02	0.10	0.00	0.00	0.00
10	0.15	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
11	0.39	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.14	0.05	0.00
12	0.00	0.00	0.00	0.00	0.48	0.00	0.16	0.20	0.00	0.00	2.41	0.00
13	0.00	0.00	---	0.00	0.00	0.00	0.58	0.00	0.48	0.00	0.27	0.00
14	0.00	0.00	---	0.00	0.13	0.00	0.00	0.00	0.82	0.00	0.98	0.03
15	0.00	0.00	---	0.00	0.25	0.07	0.00	0.00	0.02	0.00	0.04	0.00
16	0.00	0.00	---	0.00	0.00	0.04	0.00	0.11	0.03	0.00	0.00	0.00
17	0.00	0.00	---	0.03	0.00	0.00	0.00	0.39	0.00	2.75	0.00	0.94
18	0.00	0.00	---	0.14	0.00	0.10	0.00	0.32	0.00	0.00	0.00	0.00
19	0.00	0.31	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
20	0.00	0.00	---	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.05	0.00
22	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
23	0.00	0.00	---	0.00	0.03	0.00	0.00	0.02	1.15	0.00	0.00	0.00
24	0.00	0.01	---	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
25	0.00	0.00	---	0.24	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00
26	0.02	0.00	---	0.00	---	0.00	0.14	0.02	0.31	0.06	0.00	0.00
27	0.03	0.00	---	0.00	0.00	0.00	0.00	0.00	0.02	1.04	0.00	1.91
28	0.58	0.04	---	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.52
29	0.15	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.60	0.00
30	0.00	0.00	---	0.00	---	0.18	0.05	0.00	0.00	0.00	0.38	0.00
31	0.00	---	---	0.00	---	0.89	---	0.35	---	0.00	0.00	---
TOTAL	1.74	0.44	---	---	---	1.38	1.19	2.42	5.65	5.62	4.94	7.76



351023080435745 CRN17

LOCATION.--Lat 35°10'25", long 80°43'50", Mecklenburg County, Hydrologic Unit 03050103, Piney Grove Elementary School, Eaglewind Drive, Charlotte, NC.

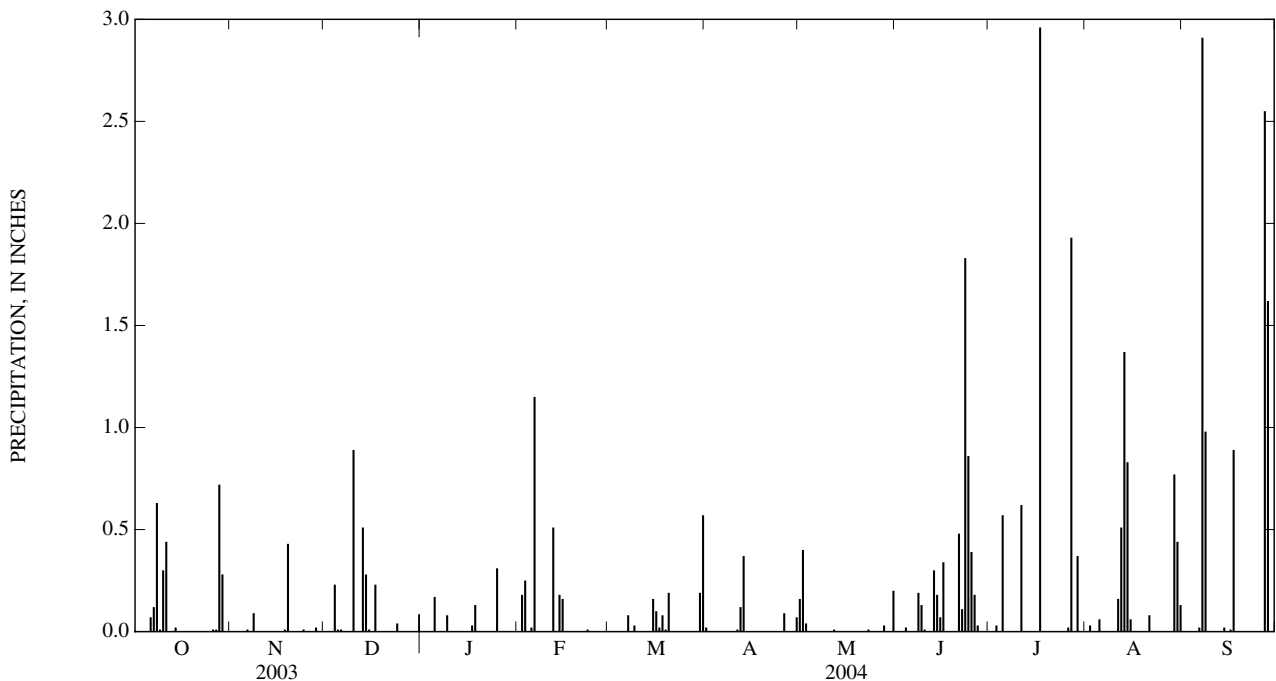
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.40	0.00	0.00	0.03	0.00
3	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.04	0.00	0.03	0.00	0.00
4	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
5	0.00	0.00	0.01	0.17	0.02	0.00	0.00	0.00	0.00	0.57	0.06	0.00
6	0.07	0.01	0.01	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.02
7	0.12	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	2.91
8	0.63	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.98
9	0.01	0.00	0.00	0.08	0.00	0.03	0.00	0.00	0.13	0.00	0.00	0.00
10	0.30	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.44	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.62	0.16	0.00
12	0.00	0.00	0.00	0.00	0.51	0.00	0.12	0.01	0.00	0.00	0.51	0.00
13	0.00	0.00	0.51	0.00	0.00	0.00	0.37	0.00	0.30	0.00	1.37	0.00
14	0.02	0.00	0.28	0.00	0.18	0.00	0.00	0.00	0.18	0.00	0.83	0.02
15	0.00	0.00	0.01	0.00	0.16	0.16	0.00	0.00	0.07	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.34	0.00	0.00	0.01
17	0.00	0.00	0.23	0.03	0.00	0.02	0.00	0.00	0.00	2.96	0.00	0.89
18	0.00	0.01	0.00	0.13	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.43	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.08	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	1.83	0.00	0.00	0.00
24	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00
25	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	---	0.00	0.09	0.00	0.18	0.02	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.93	0.00	2.55
28	0.72	0.02	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.62
29	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.77	0.00
30	0.00	0.00	0.00	0.00	---	0.19	0.07	0.00	0.00	0.00	0.44	0.00
31	0.00	---	0.00	0.00	---	0.57	---	0.20	---	0.00	0.13	---
TOTAL	2.61	0.57	2.21	0.72	---	1.43	0.68	0.85	5.12	6.50	4.44	9.00



351132080504145 CRN19

LOCATION.--Lat 35°11'33", long 80°50'41", Mecklenburg County, Hydrologic Unit 03050103, Freedom Park, Cumberland Drive, Charlotte, NC.

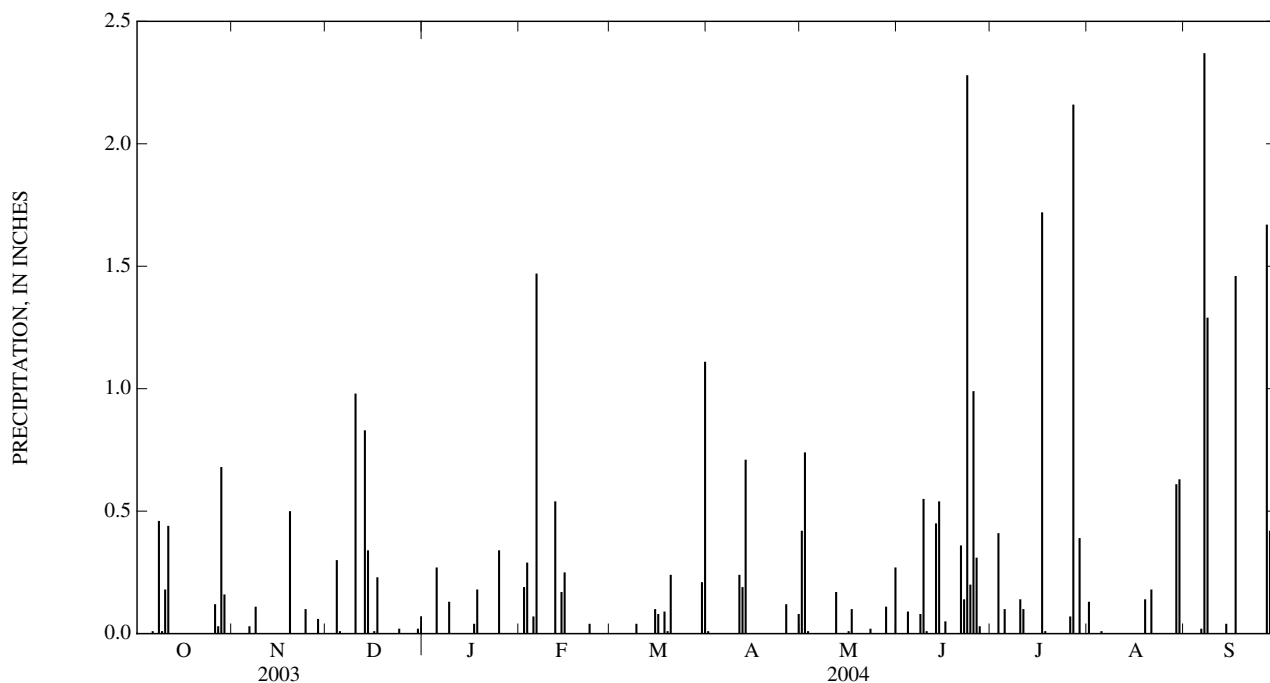
PERIOD OF RECORD.--September 1993 to current year. Records for period September 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.42	0.00	0.00	0.13	0.00
2	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.74	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.01	0.00	0.41	0.00	0.00
4	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
5	0.00	0.00	0.01	0.27	0.07	0.00	0.00	0.00	0.00	0.10	0.01	0.00
6	0.01	0.03	0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.02
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37
8	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	1.29
9	0.01	0.00	0.00	0.13	0.00	0.04	0.00	0.00	0.55	0.00	0.00	0.00
10	0.18	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.00	0.00
11	0.44	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	0.19	0.17	0.00	0.00	---	0.00
13	0.00	0.00	0.83	0.00	0.00	0.00	0.71	0.00	0.45	0.00	---	0.00
14	0.00	0.00	0.34	0.00	0.17	0.00	0.00	0.00	0.54	0.00	---	0.04
15	0.00	0.00	0.00	0.00	0.25	0.10	0.00	0.00	0.00	0.00	---	0.00
16	0.00	0.00	0.01	0.00	0.00	0.08	0.00	0.01	0.05	0.00	0.00	0.00
17	0.00	0.00	0.23	0.04	0.00	0.00	0.00	0.10	0.00	1.72	0.00	1.46
18	0.00	0.00	0.00	0.18	0.00	0.09	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	0.50	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.14	0.00
20	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.18	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.02	2.28	0.00	0.00	0.00
24	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
25	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00
26	0.12	0.00	0.00	0.00	---	0.00	0.12	0.00	0.31	0.07	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.16	0.00	1.67
28	0.68	0.06	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.42
29	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.61	0.00
30	0.00	0.00	0.02	0.00	---	0.21	0.08	0.00	0.00	0.00	0.63	0.00
31	0.00	---	0.00	0.00	---	1.11	---	0.27	---	0.00	0.00	---
TOTAL	2.09	0.80	2.74	0.96	---	1.88	1.35	1.85	6.08	5.10	---	7.27



351032080475245 CRN20

LOCATION.--Lat 35°10'33", long 80°47'51", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 14, North Sharon Amity Road, Charlotte, NC.

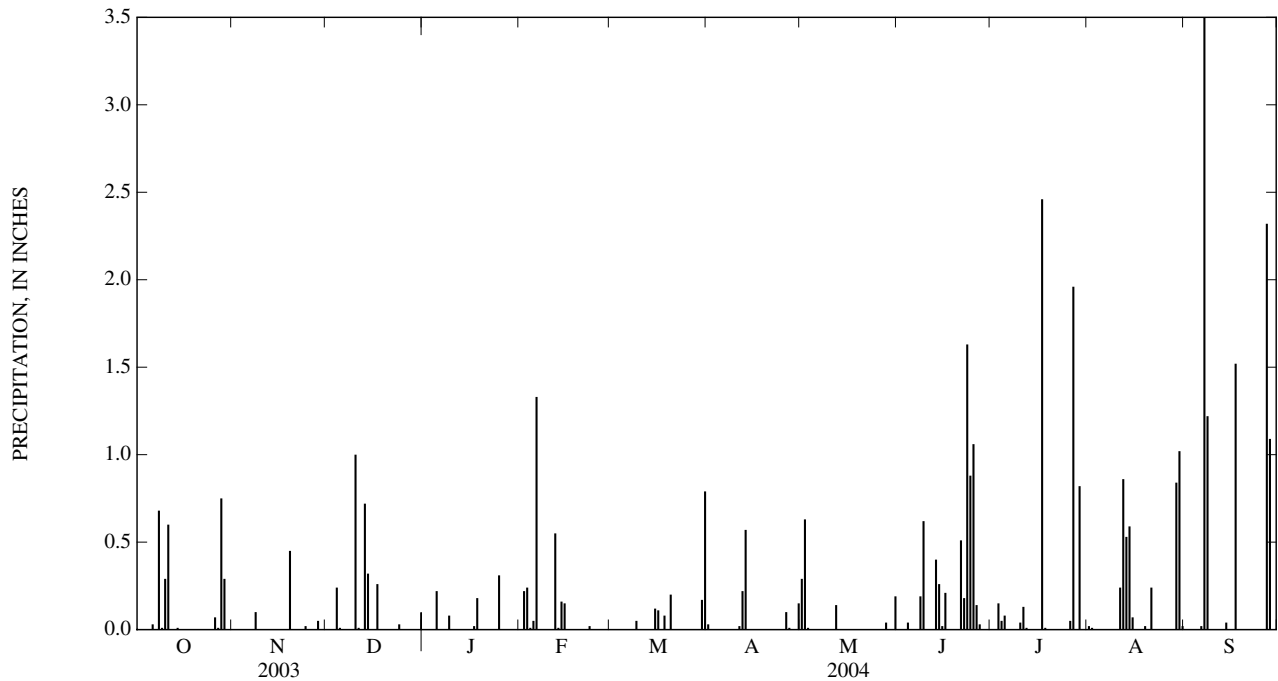
PERIOD OF RECORD.--September 1993 to current year. Records for period September 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99- 273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.29	0.00	0.00	0.02	0.00
2	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.63	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.01	0.00	0.15	0.00	0.00
4	0.00	0.00	0.24	0.00	0.01	0.00	0.00	0.00	0.04	0.05	0.00	0.00
5	0.00	0.00	0.01	0.22	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00
6	0.03	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.02
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50
8	0.68	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	1.22
9	0.01	0.00	0.00	0.08	0.00	0.05	0.00	0.00	0.62	0.00	0.00	0.00
10	0.29	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
11	0.60	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.13	0.24	0.00
12	0.00	0.00	0.00	0.00	0.55	0.00	0.22	0.14	0.00	0.01	0.86	0.00
13	0.00	0.00	0.72	0.00	0.01	0.00	0.57	0.00	0.40	0.00	0.53	0.00
14	0.01	0.00	0.32	0.00	0.16	0.00	0.00	0.00	0.26	0.00	0.59	0.04
15	0.00	0.00	0.00	0.00	0.15	0.12	0.00	0.00	0.02	0.00	0.07	0.00
16	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.21	0.00	0.00	0.00
17	0.00	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.00	2.46	0.00	1.52
18	0.00	0.00	0.00	0.18	0.00	0.08	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
20	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.24	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	1.63	0.00	0.00	0.00
24	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00
25	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00
26	0.07	0.00	0.00	0.00	---	0.00	0.10	0.00	0.14	0.05	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	1.96	0.00	2.32
28	0.75	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	1.09
29	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.84	0.00
30	0.00	0.00	0.00	0.00	---	0.17	0.15	0.00	0.00	0.00	1.02	0.00
31	0.00	---	0.00	0.00	---	0.79	---	0.19	---	0.00	0.02	---
TOTAL	2.74	0.62	2.59	0.81	---	1.52	1.10	1.30	6.17	5.76	4.46	9.71



350842080572801 CRN21

LOCATION.--Lat 35°09'13", long 80°57'21", Mecklenburg County, Hydrologic Unit 03050103, Kennedy Junior High School, Gallant Lane, Charlotte, NC.

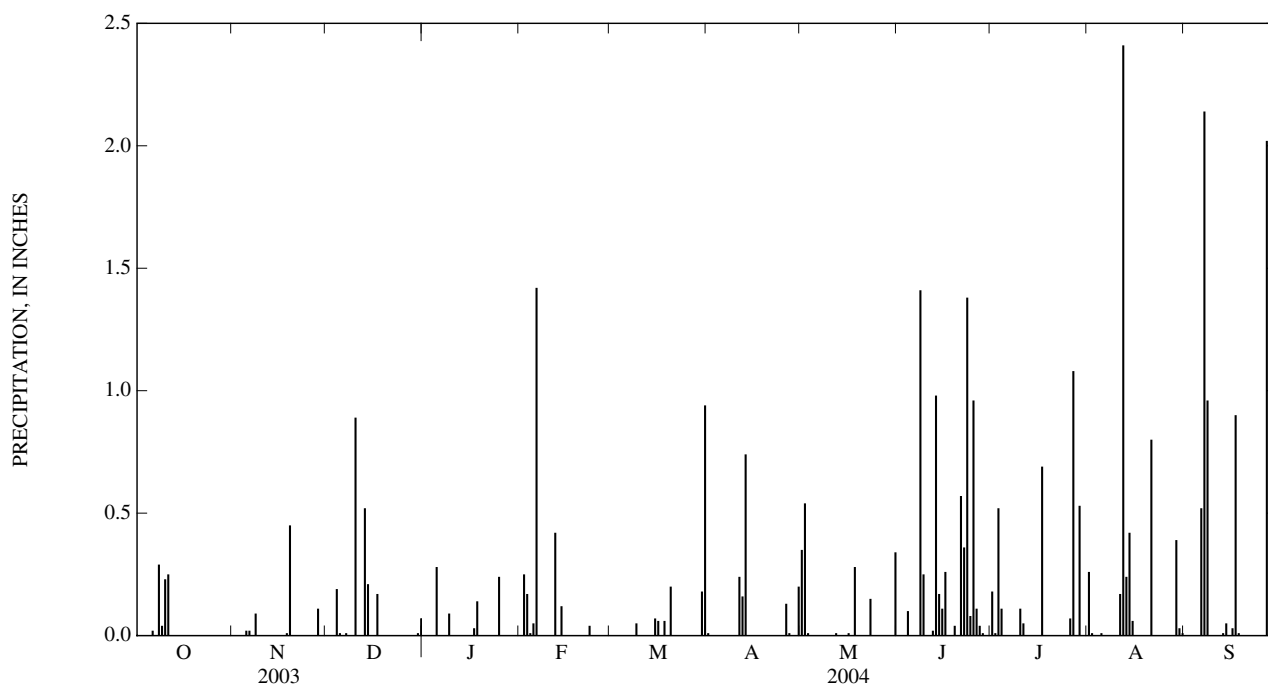
PERIOD OF RECORD.--September 1990 to current year. Records for period September 1990 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.35	0.00	0.18	0.26	0.00
2	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.54	0.00	0.01	0.01	0.00
3	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.01	0.00	0.52	0.00	0.00
4	0.00	0.00	0.19	0.00	0.01	0.00	0.00	0.00	0.10	0.11	0.00	0.00
5	0.00	0.02	0.01	0.28	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00
6	0.02	0.02	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.52
7	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14
8	0.29	0.09	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.96
9	0.04	0.00	0.00	0.09	0.00	0.05	0.00	0.00	0.25	0.00	0.00	0.00
10	0.23	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
11	0.25	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.05	0.17	0.00
12	0.00	0.00	0.00	0.00	0.42	0.00	0.16	0.01	0.02	0.00	2.41	0.00
13	0.00	0.00	0.52	0.00	0.00	0.00	0.74	0.00	0.98	0.00	0.24	0.01
14	0.00	0.00	0.21	0.00	0.12	0.00	0.00	0.00	0.17	0.00	0.42	0.05
15	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.11	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.26	0.00	0.00	0.03
17	0.00	0.00	0.17	0.03	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.90
18	0.00	0.01	0.00	0.14	0.00	0.06	0.00	0.28	0.00	0.00	0.00	0.01
19	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.80	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.15	1.38	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
25	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	---	0.00	0.13	0.00	0.11	0.07	0.00	0.00
27	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	1.08	0.00	2.02
28	---	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.31
29	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.39	0.00
30	0.00	0.00	0.01	0.00	---	0.18	0.20	0.00	0.00	0.00	0.03	0.00
31	0.00	---	0.00	0.00	---	0.94	---	0.34	---	0.00	0.01	---
TOTAL	---	0.70	2.01	0.78	---	1.56	1.49	1.69	6.85	3.35	4.81	6.95



350623080583801 CRN22

LOCATION.--Lat 35°06'54", long 80°58'18", Mecklenburg County, Hydrologic Unit 03050103, Lake Wylie Elementary School, Erwin Road, Charlotte, NC.

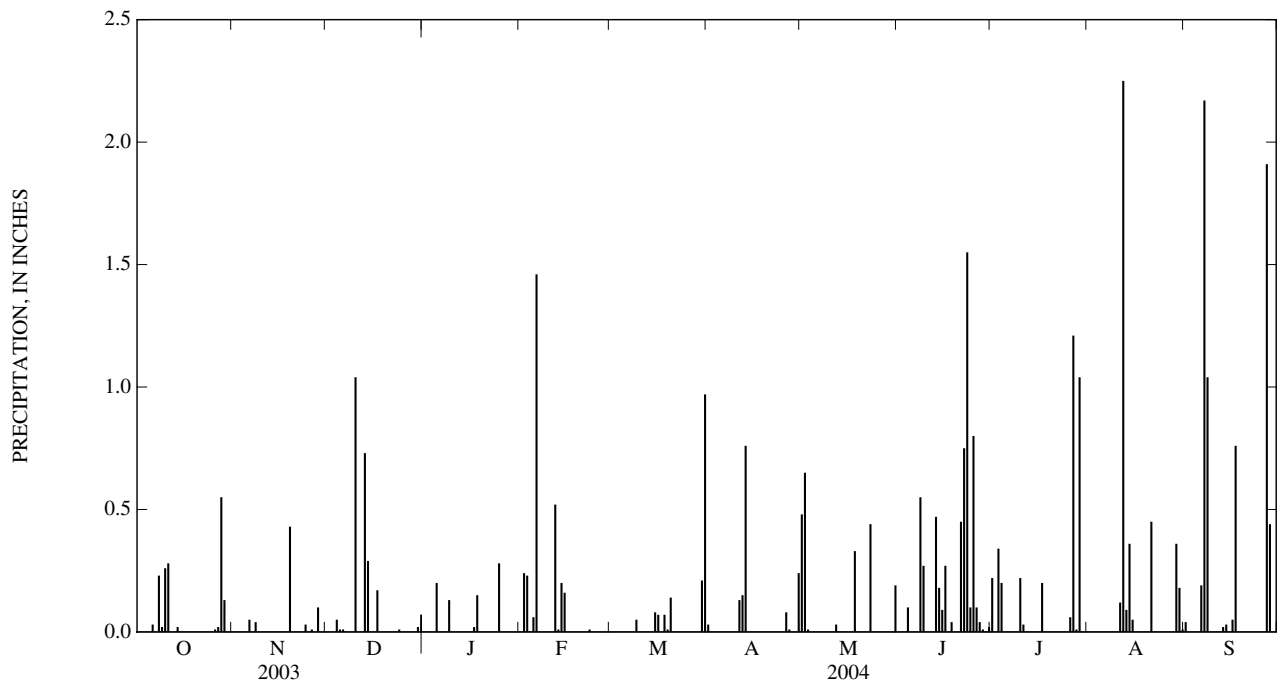
PERIOD OF RECORD.--September 1990 to current year. Records for period September 1990 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station. Prior to Aug. 23, 2000 gage located at private residence, Choate Circle, Charlotte, NC.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.48	0.00	0.22	---	0.04
2	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.65	0.00	0.00	---	0.00
3	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.01	0.00	0.34	---	0.00
4	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.10	0.20	0.00	0.00
5	0.00	0.00	0.01	0.20	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.03	0.05	0.01	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.19
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.17
8	0.23	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	1.04
9	0.02	0.00	0.00	0.13	0.00	0.05	0.00	0.00	0.27	0.00	0.00	0.00
10	0.26	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00
11	0.28	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.03	0.12	0.00
12	0.00	0.00	0.00	0.00	0.52	0.00	0.15	0.03	0.00	0.00	2.25	0.00
13	0.00	0.00	0.73	0.00	0.01	0.00	0.76	0.00	0.47	0.00	0.09	0.02
14	0.02	0.00	0.29	0.00	0.20	0.00	0.00	0.00	0.18	0.00	0.36	0.03
15	0.00	0.00	0.00	0.00	0.16	0.08	0.00	0.00	0.09	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.27	0.00	0.00	0.05
17	0.00	0.00	0.17	0.02	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.76
18	0.00	0.00	0.00	0.15	0.00	0.07	0.00	0.33	0.04	0.00	0.00	0.00
19	0.00	0.43	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.45	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.44	1.55	0.00	0.00	0.00
24	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
25	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00
26	0.01	0.01	0.00	0.00	---	0.00	0.08	0.00	0.10	0.06	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	1.21	0.00	1.91
28	0.55	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.44
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.36	0.00
30	0.00	0.00	0.02	0.00	---	0.21	0.24	0.00	0.02	0.00	0.18	0.00
31	0.00	---	0.00	0.00	---	0.97	---	0.19	---	0.00	0.01	---
TOTAL	1.55	0.66	2.33	0.78	---	1.60	1.40	2.13	5.79	3.53	---	6.65



351604080470845 CRN27

LOCATION.--Lat 35°16'04", long 80°47'08", Mecklenburg County, Hydrologic Unit 03050103, Hidden Valley Elementary School, Snow White Lane, Charlotte, NC.

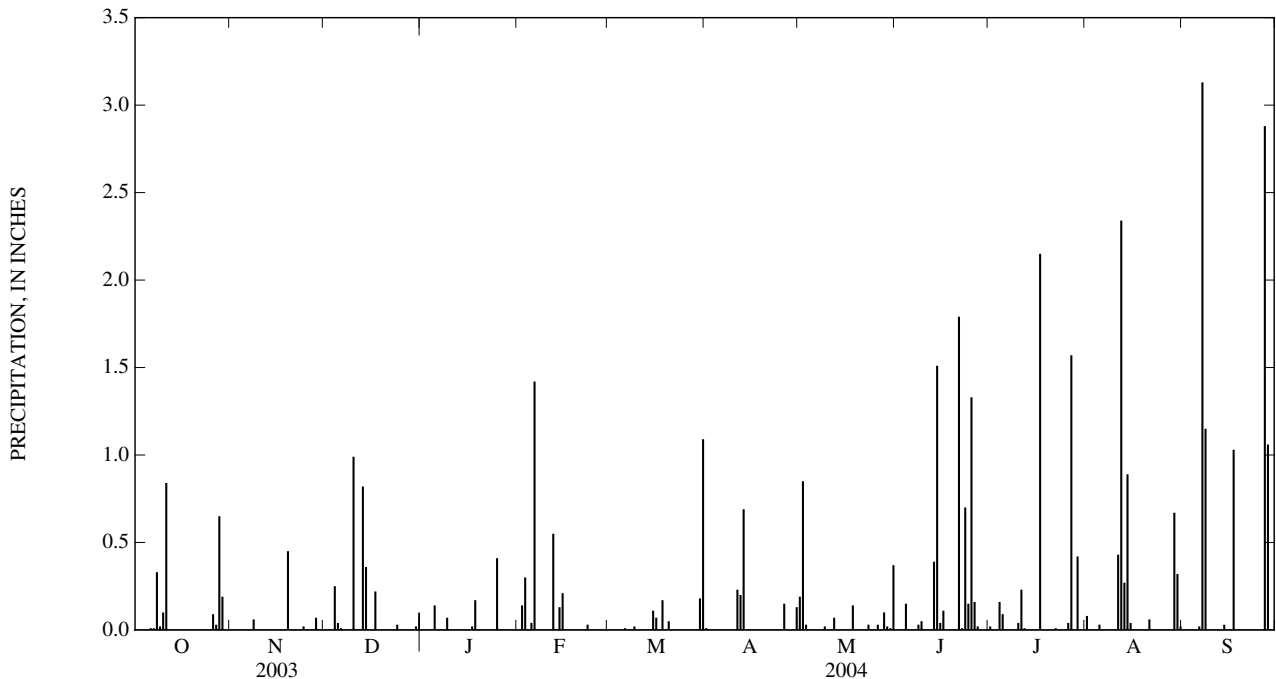
PERIOD OF RECORD.--October 1994 to current year. Records for period October 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.19	0.00	0.02	0.08	0.00
2	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.85	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.03	0.00	0.00	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.15	0.16	0.00	0.00
5	0.00	0.00	0.04	0.14	0.04	0.00	0.00	0.00	0.00	0.09	0.03	0.00
6	0.01	0.00	0.01	0.00	1.42	0.01	0.00	0.00	0.00	0.00	0.00	0.02
7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.13
8	0.33	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.15
9	0.02	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.05	0.00	0.00	0.00
10	0.10	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
11	0.84	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.23	0.43	0.00
12	0.00	0.00	0.00	0.00	0.55	0.00	0.20	0.07	0.00	0.01	2.34	0.00
13	0.00	0.00	0.82	0.00	0.00	0.00	0.69	0.00	0.39	0.00	0.27	0.00
14	0.00	0.00	0.36	0.00	0.13	0.00	0.00	0.00	1.51	0.00	0.89	0.03
15	0.00	0.00	0.00	0.00	0.21	0.11	0.00	0.00	0.04	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.11	0.00	0.00	0.00
17	0.00	0.00	0.22	0.02	0.00	0.00	0.00	0.00	0.00	2.15	0.00	1.03
18	0.00	0.00	0.00	0.17	0.00	0.17	0.00	0.14	0.00	0.00	0.00	0.00
19	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.00	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.70	0.00	0.00	0.00
24	0.00	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
25	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00
26	0.09	0.00	0.00	0.00	---	0.00	0.15	0.03	0.16	0.04	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.57	0.00	2.88
28	0.65	0.07	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	1.06
29	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.42	0.67	0.00
30	0.00	0.00	0.02	0.00	---	0.18	0.13	0.01	0.00	0.00	0.32	0.00
31	0.00	---	0.00	0.00	---	1.09	---	0.37	---	0.00	0.02	---
TOTAL	2.27	0.60	2.74	0.81	---	1.70	1.41	1.86	6.44	4.74	5.15	9.30



350110080502045 CRN31

LOCATION.--Lat 35°01'11", long 80°50'17", Mecklenburg County, Hydrologic Unit 03050103, Elon Homes for Children, Ardrey-Kell Road, Charlotte, NC.

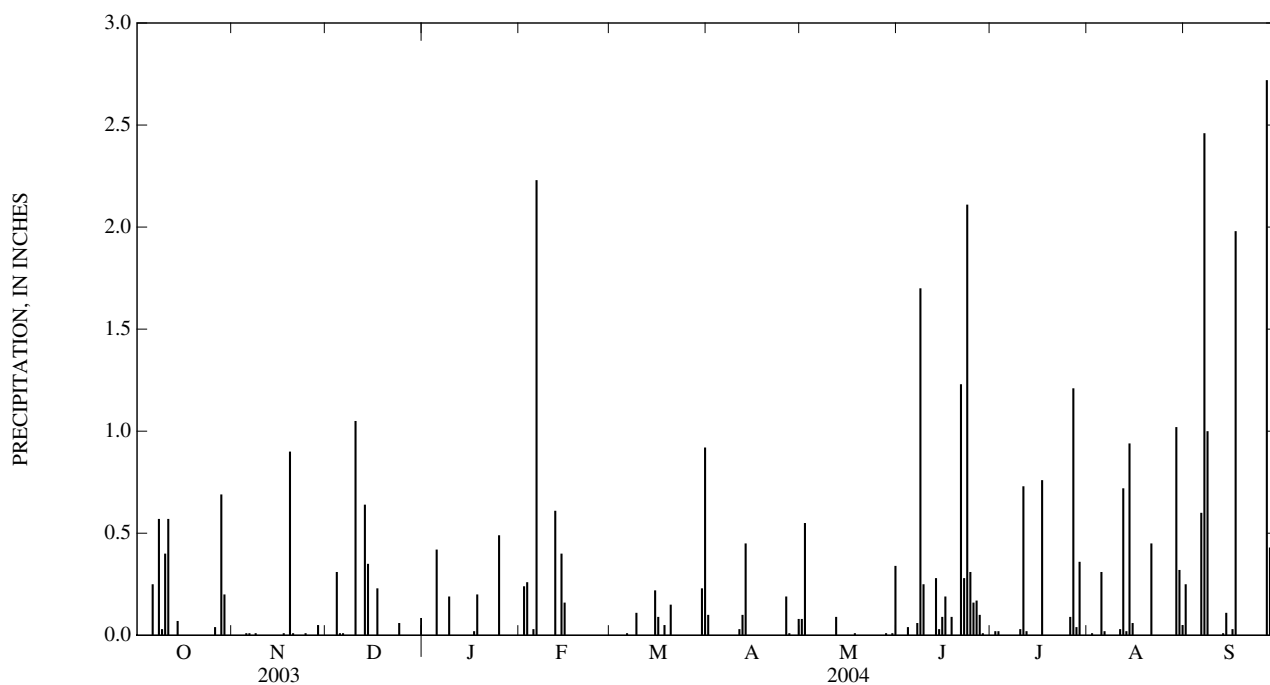
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.00	0.00	0.00	0.25
2	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.55	0.00	0.02	0.01	0.00
3	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.02	0.00	0.00
4	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
5	0.00	0.01	0.01	0.42	0.03	0.00	0.00	0.00	0.00	0.00	0.31	0.00
6	0.25	0.01	0.01	0.00	2.23	0.01	0.00	0.00	0.00	0.00	0.02	0.60
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	2.46
8	0.57	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.00	0.00	1.00
9	0.03	0.00	0.00	0.19	0.00	0.11	0.00	0.00	0.25	0.00	0.00	0.00
10	0.40	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
11	0.57	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.73	0.03	0.00
12	0.00	0.00	0.00	0.00	0.61	0.00	0.10	0.09	0.00	0.02	0.72	0.00
13	0.00	0.00	0.64	0.00	0.00	0.00	0.45	0.00	0.28	0.00	0.02	0.01
14	0.07	0.00	0.35	0.00	0.40	0.00	0.00	0.00	0.03	0.00	0.94	0.11
15	0.00	0.00	0.00	0.00	0.16	0.22	0.00	0.00	0.09	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.19	0.00	0.00	0.03
17	0.00	0.01	0.23	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00	1.98
18	0.00	0.00	0.00	0.20	0.00	0.05	0.00	0.01	0.09	0.00	0.00	0.00
19	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.45	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11	0.00	0.00	0.00
24	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00
25	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.19	0.00	0.17	0.09	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.10	1.21	0.00	2.72
28	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0.00	0.43
29	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	1.02	0.00
30	0.00	0.00	0.00	0.00	---	0.23	0.08	0.01	0.00	0.00	0.32	0.00
31	0.00	---	0.00	0.00	---	0.92	---	0.34	---	0.00	0.05	---
TOTAL	2.82	1.01	2.66	1.32	---	1.78	0.96	1.09	7.10	3.28	3.95	9.59



352555080574445 CRN34

LOCATION.--Lat 35°25'52", long 80°57'45", Lincoln County, Hydrologic Unit 03050101, Cowans Ford Dam warehouse, Duke Lane, Huntersville, NC.

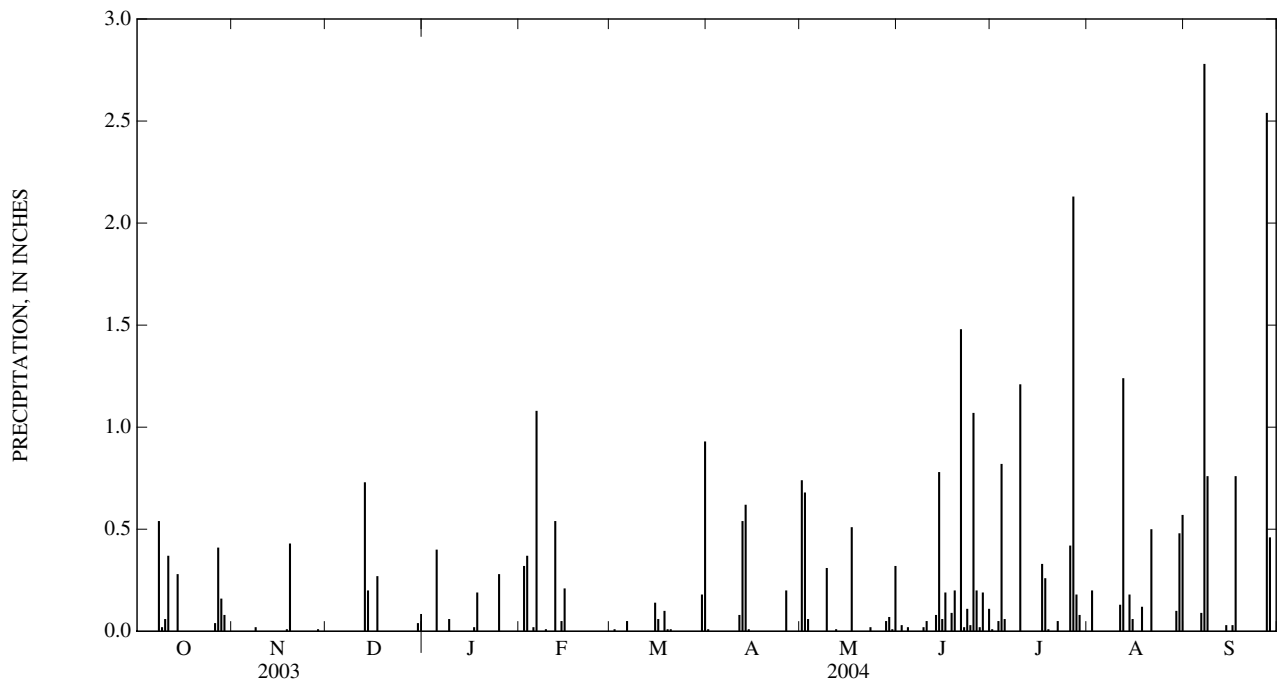
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	---	0.00	0.00	0.00	0.01	0.74	0.00	0.01	0.00	0.00
2	0.00	0.00	---	0.00	0.32	0.01	0.00	0.68	0.03	0.00	0.20	0.00
3	0.00	0.00	---	0.00	0.37	0.00	0.00	0.06	0.00	0.05	0.00	0.00
4	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.02	0.82	0.00	0.00
5	0.00	0.00	---	0.40	0.02	0.00	0.00	0.00	0.00	0.06	0.00	0.00
6	0.00	0.00	---	0.00	1.08	0.05	0.00	0.00	0.00	0.00	0.00	0.09
7	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.78
8	0.54	0.02	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
9	0.02	0.00	---	0.06	0.01	0.00	0.00	0.31	0.02	0.00	0.00	0.00
10	0.06	0.00	---	0.00	0.00	0.00	0.00	0.00	0.05	1.21	0.00	0.00
11	0.37	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.13	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	0.54	0.01	0.00	0.00	1.24	0.00
13	0.00	0.00	0.73	0.00	0.00	0.00	0.62	0.00	0.08	0.00	0.00	0.00
14	0.28	0.00	0.20	0.00	0.05	0.00	0.01	0.00	0.78	0.00	0.18	0.03
15	0.00	0.00	0.00	0.00	0.21	0.14	0.00	0.00	0.06	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.19	0.00	0.00	0.03
17	0.00	0.00	0.27	0.02	0.00	0.00	0.00	0.51	0.00	0.33	0.00	0.76
18	0.00	0.01	0.00	0.19	0.00	0.10	0.00	0.00	0.09	0.26	0.12	0.00
19	0.00	0.43	0.00	0.00	0.00	0.01	0.00	0.00	0.20	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	0.00	0.50	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
25	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.20	0.00	0.20	0.42	0.00	0.00
27	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.13	0.00	2.54
28	0.16	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.19	0.18	0.00	0.46
29	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.08	0.10	0.00
30	0.00	0.00	0.04	0.00	---	0.18	0.00	0.01	0.11	0.00	0.48	0.00
31	0.00	---	0.00	0.00	---	0.93	---	0.32	---	0.00	0.57	---
TOTAL	1.96	0.47	---	0.95	---	1.49	1.46	2.78	4.75	5.61	3.58	7.45



351247080592745 CRN37

LOCATION.--Lat 35°12'47", long 80°59'26", Mecklenburg County, Hydrologic Unit 03050101, Berryhill Elementary School, Walkers Ferry Road, Charlotte, NC.

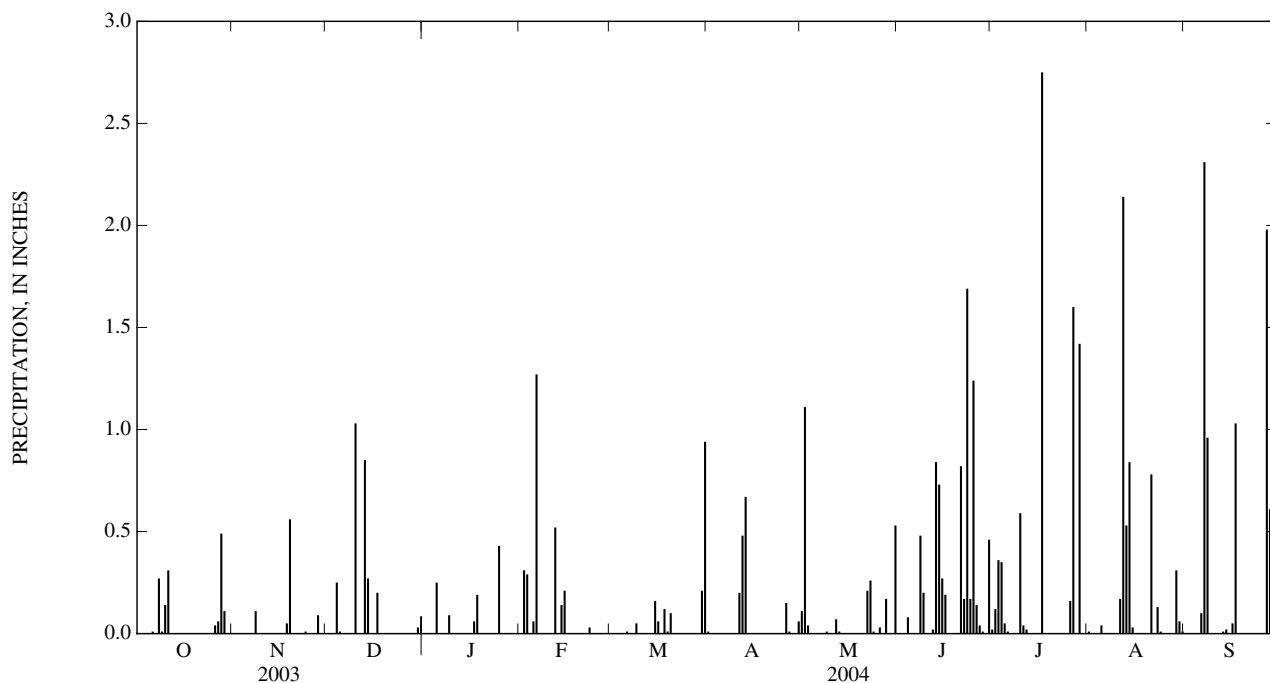
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.00	0.02	0.01	0.00
2	0.00	0.00	0.00	0.00	0.31	0.00	0.00	1.11	0.00	0.12	0.00	0.00
3	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.04	0.00	0.36	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.08	0.35	0.00	0.00
5	0.00	0.00	0.01	0.25	0.06	0.00	0.00	0.00	0.00	0.05	0.04	0.00
6	0.01	0.00	0.00	0.00	1.27	0.01	0.00	0.00	0.00	0.01	0.00	0.10
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31
8	0.27	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.96
9	0.01	0.00	0.00	0.09	0.00	0.05	0.00	0.01	0.20	0.00	0.00	0.00
10	0.14	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00
11	0.31	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.04	0.17	0.00
12	0.00	0.00	0.00	0.00	0.52	0.00	0.48	0.07	0.02	0.02	2.14	0.00
13	0.00	0.00	0.85	0.00	0.00	0.00	0.67	0.01	0.84	0.00	0.53	0.01
14	0.00	0.00	0.27	0.00	0.14	0.00	0.00	0.00	0.73	0.00	0.84	0.02
15	0.00	0.00	0.00	0.00	0.21	0.16	0.00	0.00	0.27	0.00	0.03	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.19	0.00	0.00	0.05
17	0.00	0.00	0.20	0.06	0.00	0.00	0.00	0.00	0.00	2.75	0.00	1.03
18	0.00	0.05	0.00	0.19	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.56	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.78	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.17	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.26	1.69	0.00	0.13	0.00
24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.17	0.00	0.01	0.00
25	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.15	0.03	0.14	0.16	0.00	0.00
27	0.06	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	1.60	0.00	1.98
28	0.49	0.09	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.00	0.00	0.61
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	0.31	0.00
30	0.00	0.00	0.03	0.00	---	0.21	0.06	0.00	0.46	0.00	0.06	0.00
31	0.00	---	0.00	0.00	---	0.94	---	0.53	---	0.00	0.01	---
TOTAL	1.44	0.82	2.64	1.02	---	1.66	1.58	2.56	7.55	7.49	5.06	7.07



350200081020345 CRN38

LOCATION.--Lat 35°02'00", long 81°02'06", York County, South Carolina, Hydrologic Unit 03050101, Tega Cay Town Hall, Tega Cay Drive, Tega Cay, SC.

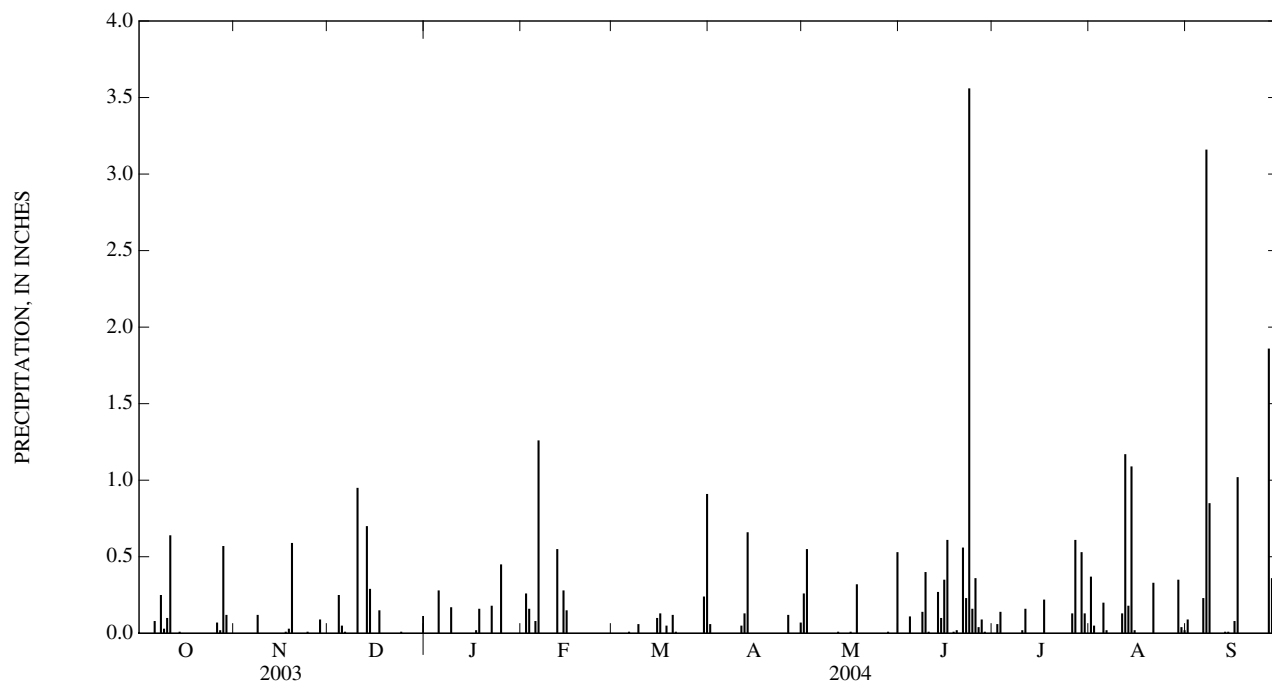
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.26	0.00	0.00	0.37	0.09
2	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.55	0.00	0.06	0.05	0.00
3	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.14	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
5	0.00	0.00	0.05	0.28	0.08	0.00	0.00	0.00	0.00	0.00	0.20	0.00
6	0.08	0.00	0.01	0.00	1.26	0.01	0.00	0.00	0.00	0.00	0.02	0.23
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16
8	0.25	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.85
9	0.03	0.00	0.00	0.17	0.00	0.06	0.00	0.00	0.40	0.00	0.00	0.00
10	0.10	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00
11	0.64	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.16	0.13	0.00
12	0.00	0.00	0.00	0.00	0.55	0.00	0.13	0.01	0.00	0.00	1.17	0.00
13	0.00	0.00	0.70	0.00	0.00	0.00	0.66	0.00	0.27	0.00	0.18	0.01
14	0.01	0.00	0.29	0.00	0.28	0.00	0.00	0.00	0.10	0.00	1.09	0.01
15	0.00	0.00	0.00	0.00	0.15	0.10	0.00	0.00	0.35	0.00	0.02	0.00
16	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.61	0.00	0.00	0.08
17	0.00	0.01	0.15	0.02	0.00	0.00	0.00	0.00	0.00	0.22	0.00	1.02
18	0.00	0.03	0.00	0.16	0.00	0.05	0.00	0.32	0.01	0.00	0.00	0.00
19	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.56	0.00	0.33	0.00
22	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.00	0.00
24	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
25	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00
26	0.07	0.00	0.00	0.00	---	0.00	0.12	0.00	0.04	0.13	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.61	0.00	1.86
28	0.57	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.36
29	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.35	0.00
30	0.00	0.00	0.00	0.00	---	0.24	0.07	0.00	0.00	0.13	0.04	0.00
31	0.00	---	0.00	0.00	---	0.91	---	0.53	---	0.00	0.02	---
TOTAL	1.89	0.85	2.41	1.26	---	1.63	1.09	1.69	7.03	2.00	3.97	7.67



353003080591745 CRN40

LOCATION.--Lat 35°29'56", long 80°59'12", Lincoln County, Hydrologic Unit 03050101, Westport Golf Course driving range, Denver, NC.

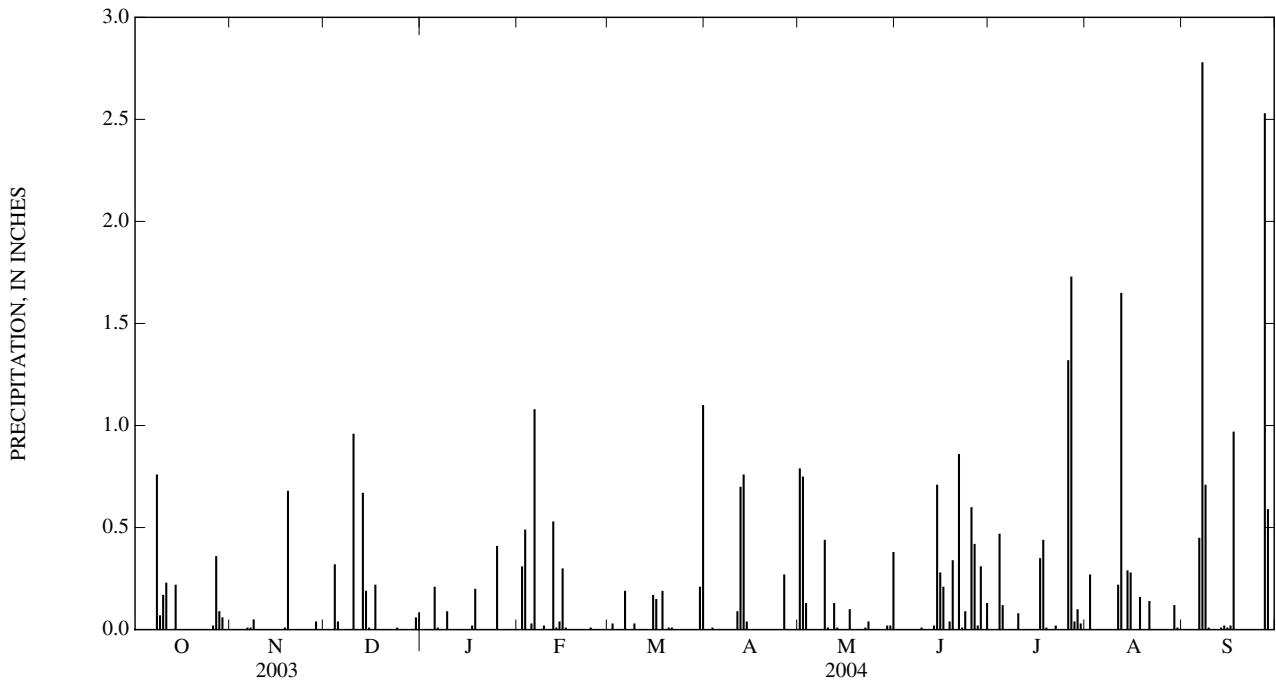
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273. Records for February 1996 to June 1996 at site Lake Norman Fire Department, Mooresville, NC (station 353402080543145).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.31	0.03	0.00	0.75	0.00	0.00	0.27	0.00
3	0.00	0.00	0.00	0.00	0.49	0.00	0.01	0.13	0.00	0.00	0.00	0.00
4	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00
5	0.00	0.00	0.04	0.21	0.03	0.00	0.00	0.00	0.00	0.12	0.00	0.00
6	0.00	0.01	0.00	0.01	1.08	0.19	0.00	0.00	0.00	0.00	0.00	0.45
7	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.78
8	0.76	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71
9	0.07	0.00	0.00	0.09	0.02	0.03	0.00	0.44	0.01	0.00	0.00	0.01
10	0.17	0.00	0.96	0.00	0.00	0.00	0.00	0.01	0.00	0.08	0.00	0.00
11	0.23	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.22	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.70	0.13	0.00	0.00	1.65	0.00
13	0.00	0.00	0.67	0.00	0.01	0.00	0.76	0.01	0.02	0.00	0.00	0.01
14	0.22	0.00	0.19	0.00	0.04	0.00	0.04	0.00	0.71	0.00	0.29	0.02
15	0.00	0.00	0.01	0.00	0.30	0.17	0.00	0.00	0.28	0.00	0.28	0.01
16	0.00	0.00	0.00	0.00	0.01	0.15	0.00	0.00	0.21	0.00	0.00	0.02
17	0.00	0.00	0.22	0.02	0.00	0.00	0.00	0.10	0.00	0.35	0.00	0.97
18	0.00	0.01	0.00	0.20	0.00	0.19	0.00	0.00	0.04	0.44	0.16	0.00
19	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.86	0.00	0.14	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.09	0.00	0.00	0.00
24	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00
26	0.02	0.00	0.00	0.00	---	0.00	0.27	0.00	0.42	1.32	0.00	0.00
27	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.73	0.00	2.53
28	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.04	0.00	0.59
29	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.10	0.12	0.00
30	0.00	0.00	0.06	0.00	---	0.21	0.00	0.02	0.13	0.03	0.01	0.00
31	0.00	---	0.00	0.00	---	1.10	---	0.38	---	0.00	0.00	---
TOTAL	1.98	0.80	2.48	0.94	---	2.09	1.87	2.83	4.05	4.71	3.14	8.10



353014080524945 CRN42

LOCATION.--Lat 35°30'16", long 80°52'47", Mecklenburg County, Hydrologic Unit 03050101, private residence, Norman Shores Drive, Cornelius, NC.

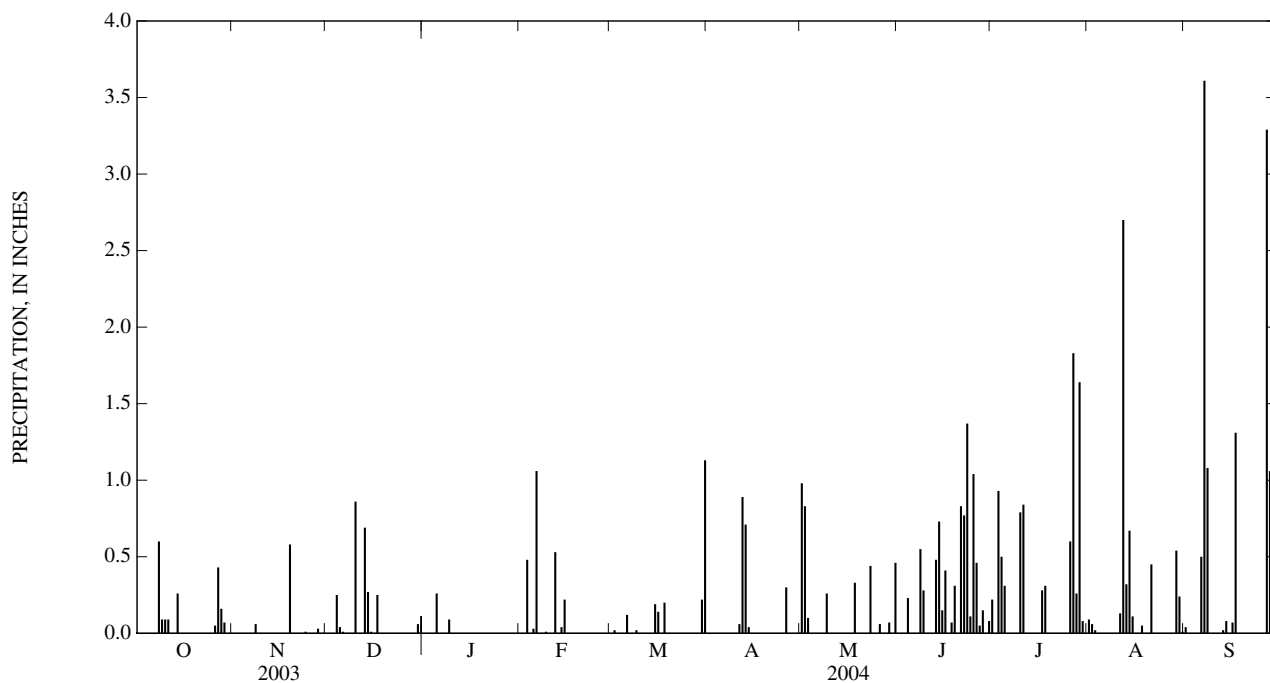
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	---	0.00	0.00	0.98	0.00	0.22	0.09	0.04
2	0.00	0.00	0.00	0.00	---	0.02	0.00	0.83	0.00	0.00	0.06	0.00
3	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.10	0.00	0.93	0.02	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.23	0.50	0.00	0.00
5	0.00	0.00	0.04	0.26	0.03	0.00	0.00	0.00	0.00	0.31	0.00	0.00
6	0.00	0.00	0.01	0.00	1.06	0.12	0.00	0.00	0.00	0.00	0.00	0.50
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61
8	0.60	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	1.08
9	0.09	0.00	0.00	0.09	0.01	0.02	0.00	0.26	0.28	0.00	0.00	0.00
10	0.09	0.00	0.86	---	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00
11	0.09	0.00	0.00	---	0.00	0.00	0.06	0.00	0.00	0.84	0.13	0.00
12	0.00	0.00	0.00	---	0.53	0.00	0.89	0.00	0.00	0.00	2.70	0.00
13	0.00	0.00	0.69	---	0.00	0.00	0.71	0.00	0.48	0.00	0.32	0.02
14	0.26	0.00	0.27	---	0.04	0.00	0.04	0.00	0.73	0.00	0.67	0.08
15	0.00	0.00	0.01	---	0.22	0.19	0.00	0.00	0.15	0.00	0.11	0.00
16	0.00	0.00	0.00	---	0.00	0.14	0.00	0.00	0.41	0.00	0.00	0.07
17	0.00	0.00	0.25	---	0.00	0.00	0.00	0.00	0.00	0.28	0.00	1.31
18	0.00	0.00	0.00	---	0.00	0.20	0.00	0.33	0.07	0.31	0.05	0.00
19	0.00	0.58	0.00	---	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00
20	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.83	0.00	0.45	0.00
22	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00
23	0.00	0.00	0.00	---	0.00	0.00	0.00	0.44	1.37	0.00	0.00	0.00
24	0.00	0.01	0.00	---	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
25	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00
26	0.05	0.00	0.00	---	---	0.00	0.30	0.06	0.46	0.60	0.00	0.00
27	0.43	0.00	0.00	---	0.00	0.00	0.00	0.00	0.05	1.83	0.00	3.29
28	0.16	0.03	0.00	---	0.00	0.00	0.00	0.00	0.15	0.26	0.00	1.06
29	0.07	0.00	0.00	---	0.00	0.00	0.00	0.07	0.00	1.64	0.54	0.00
30	0.00	0.00	0.06	---	---	0.22	0.00	0.00	0.08	0.08	0.24	0.00
31	0.00	---	0.00	---	---	1.13	---	0.46	---	0.00	0.01	---
TOTAL	1.84	0.68	2.44	---	---	2.04	2.00	3.53	8.07	8.59	5.39	11.06



352440080505045 CRN43

LOCATION.--Lat 35°24'40", long 80°50'47", Mecklenburg County, Hydrologic Unit 03050101, Huntersville Elementary School, Gilead Road, Huntersville, NC.

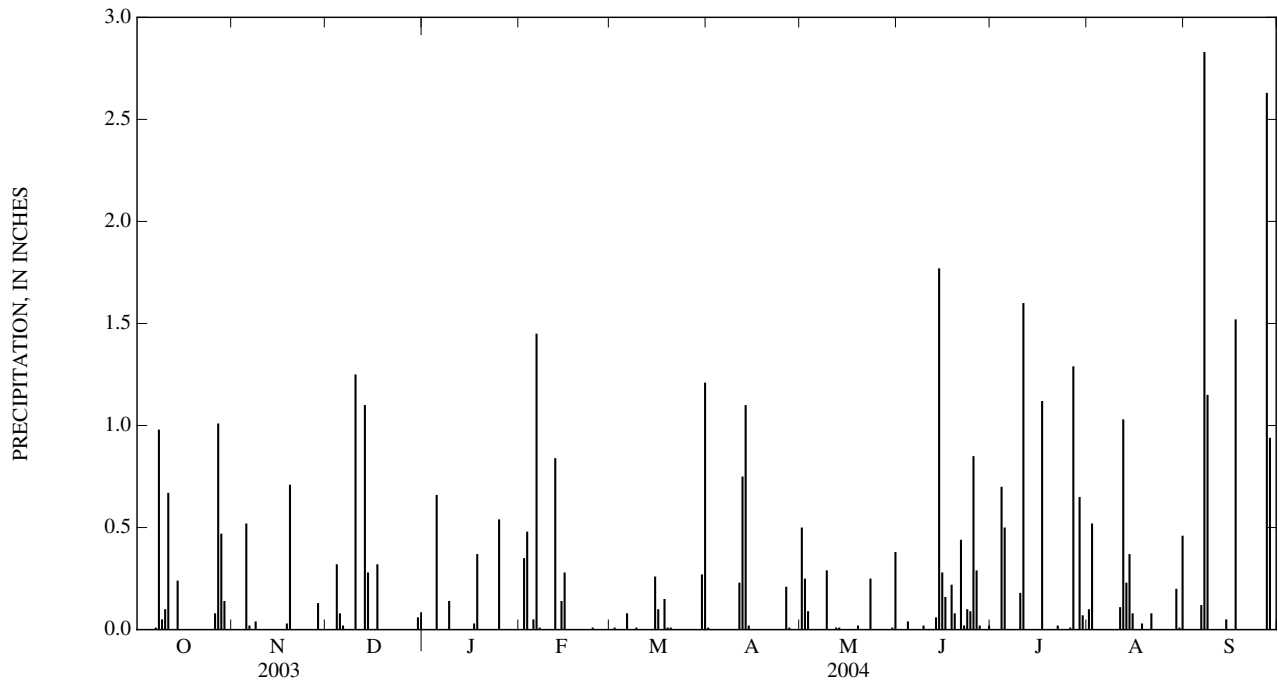
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.50	0.00	0.00	0.10	0.00
2	0.00	0.00	0.00	0.00	0.35	0.01	0.00	0.25	0.00	0.00	0.52	0.00
3	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.09	0.00	0.00	0.00	0.00
4	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.04	0.70	0.00	0.00
5	0.00	0.52	0.08	0.66	0.05	0.00	0.00	0.00	0.00	0.50	0.00	0.00
6	0.00	0.02	0.02	0.00	1.45	0.08	0.00	0.00	0.00	0.00	0.00	0.12
7	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.83
8	0.98	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15
9	0.05	0.00	0.00	0.14	0.00	0.01	0.00	0.29	0.02	0.00	0.00	0.00
10	0.10	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00
11	0.67	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1.60	0.11	0.00
12	0.00	0.00	0.00	0.00	0.84	0.00	0.75	0.01	0.00	0.00	1.03	0.00
13	0.00	0.00	1.10	0.00	0.00	0.00	1.10	0.01	0.06	0.00	0.23	0.00
14	0.24	0.00	0.28	0.00	0.14	0.00	0.02	0.00	1.77	0.00	0.37	0.05
15	0.00	0.00	0.00	0.00	0.28	0.26	0.00	0.00	0.28	0.00	0.08	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.16	0.00	0.00	0.00
17	0.00	0.00	0.32	0.03	0.00	0.00	0.00	0.00	0.00	1.12	0.00	1.52
18	0.00	0.03	0.00	0.37	0.00	0.15	0.00	0.00	0.22	0.00	0.03	0.00
19	0.00	0.71	0.00	0.00	0.00	0.01	0.00	0.02	0.08	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.08	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.10	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.00	0.00
25	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00
26	0.08	0.00	0.00	0.00	---	0.00	0.21	0.00	0.29	0.01	0.00	0.00
27	1.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.29	0.00	2.63
28	0.47	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
29	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.20	0.00
30	0.00	0.00	0.06	0.00	---	0.27	0.00	0.01	0.02	0.07	0.01	0.00
31	0.00	---	0.00	0.00	---	1.21	---	0.38	---	0.00	0.46	---
TOTAL	3.75	1.45	3.43	1.74	---	2.11	2.33	1.81	4.46	6.14	3.22	9.24



350903081004545 CRN45

LOCATION.--Lat 35°09'02", long 81°00'43", Mecklenburg County, Hydrologic Unit 03050101, private residence, Withers Cove Road, Charlotte, NC.

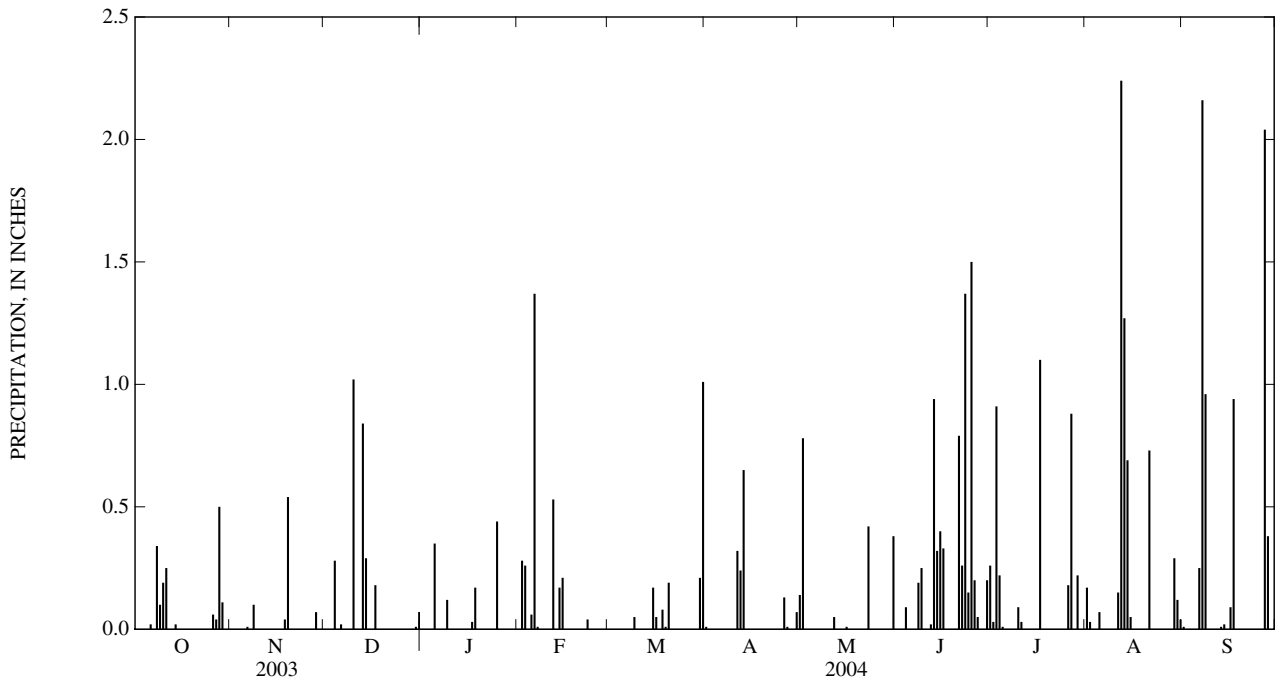
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.00	0.26	0.17	0.01
2	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.78	0.00	0.03	0.03	0.00
3	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.91	0.00	0.00
4	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.09	0.22	0.00	0.00
5	0.00	0.00	0.00	0.35	0.06	0.00	0.00	0.00	0.00	0.01	0.07	0.00
6	0.02	0.01	0.02	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.25
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.16
8	0.34	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.96
9	0.10	0.00	0.00	0.12	0.00	0.05	0.00	0.00	0.25	0.00	0.00	0.00
10	0.19	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
11	0.25	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.03	0.15	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.24	0.05	0.02	0.00	2.24	0.00
13	0.00	0.00	0.84	0.00	0.00	0.00	0.65	0.00	0.94	0.00	1.27	0.01
14	0.02	0.00	0.29	0.00	0.17	0.00	0.00	0.00	0.32	0.00	0.69	0.02
15	0.00	0.00	0.00	0.00	0.21	0.17	0.00	0.00	0.40	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.01	0.33	0.00	0.00	0.09
17	0.00	0.00	0.18	0.03	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.94
18	0.00	0.04	0.00	0.17	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.54	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.73	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.42	1.37	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
25	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00
26	0.06	0.00	0.00	0.00	---	0.00	0.13	0.00	0.20	0.18	0.00	0.00
27	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.88	0.00	2.04
28	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.29	0.00
30	0.00	0.00	0.01	0.00	---	0.21	0.07	0.00	0.20	0.00	0.12	0.00
31	0.00	---	0.00	0.00	---	1.01	---	0.38	---	0.00	0.04	---
TOTAL	1.63	0.76	2.64	1.11	---	1.77	1.43	1.78	7.06	3.93	5.85	6.86



351229080460245 CRN47

LOCATION.--Lat 35°12'28", long 80°46'00", Mecklenburg County, Hydrologic Unit 03050103, Winterfield Elementary School, Winterfield Place, Charlotte, NC.

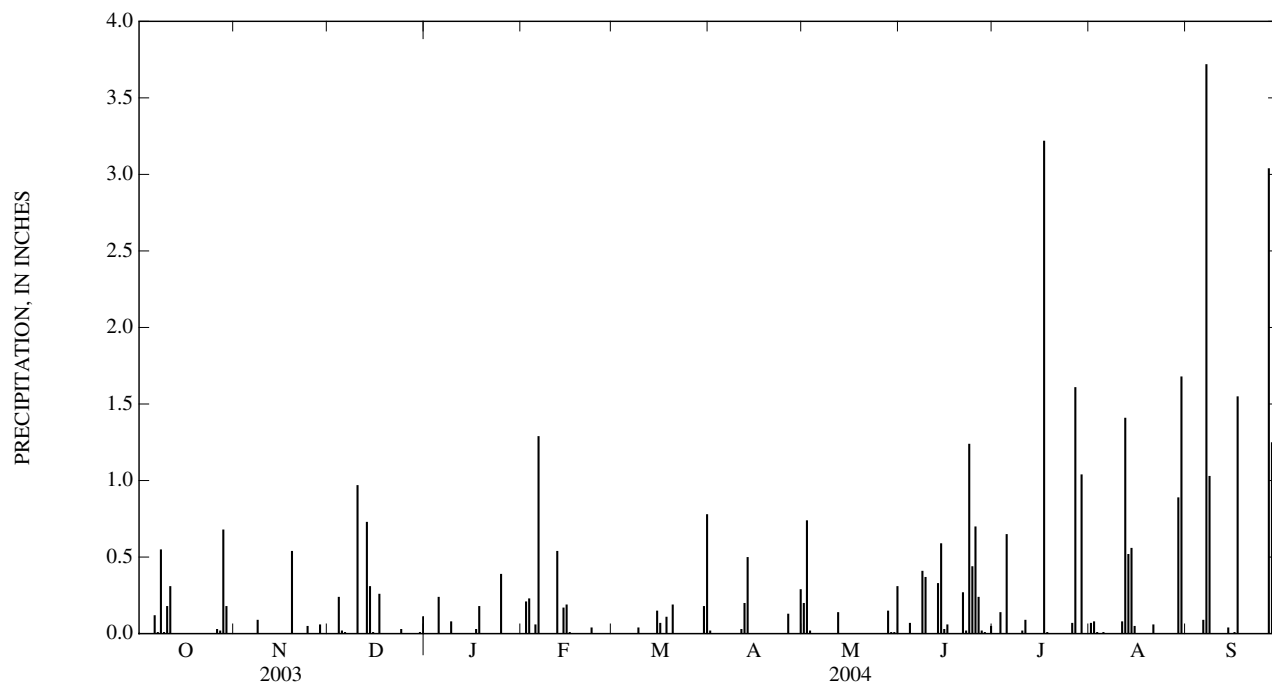
PERIOD OF RECORD.--March 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.20	0.00	0.00	0.07	0.00
2	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.74	0.00	0.00	0.08	0.00
3	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.02	0.00	0.14	0.01	0.00
4	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
5	0.00	0.00	0.02	0.24	0.06	0.00	0.00	0.00	0.00	0.65	0.01	0.00
6	0.12	0.00	0.01	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.09
7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72
8	0.55	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	1.03
9	0.01	0.00	0.00	0.08	0.00	0.04	0.00	0.00	0.37	0.00	0.00	0.00
10	0.18	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
11	0.31	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.09	0.08	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	0.20	0.14	0.00	0.00	1.41	0.00
13	0.00	0.00	0.73	0.00	0.00	0.00	0.50	0.00	0.33	0.00	0.52	0.00
14	0.00	0.00	0.31	0.00	0.17	0.00	0.00	0.00	0.59	0.00	0.56	0.04
15	0.00	0.00	0.01	0.00	0.19	0.15	0.00	0.00	0.03	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.06	0.00	0.00	0.01
17	0.00	0.00	0.26	0.03	0.00	0.00	0.00	0.00	0.00	3.22	0.00	1.55
18	0.00	0.00	0.00	0.18	0.00	0.11	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	1.24	0.00	0.00	0.00
24	0.00	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
25	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	---	0.00	0.13	0.00	0.24	0.07	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.61	0.00	3.04
28	0.68	0.06	0.00	0.00	0.00	0.00	0.00	0.15	0.01	0.00	0.00	1.25
29	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.04	0.89	0.00
30	0.00	0.00	0.01	0.00	---	0.18	0.29	0.01	0.05	0.00	1.68	---
31	0.00	---	0.00	0.00	---	0.78	---	0.31	---	0.00	0.00	---
TOTAL	2.09	0.74	2.59	0.92	---	1.52	1.17	1.58	4.85	6.85	5.42	---



350637080475645 CRN48

LOCATION.--Lat 35°06'40", long 80°47'55", Mecklenburg County, Hydrologic Unit 03050103, Olde Providence School, Rea Road, Charlotte, NC.

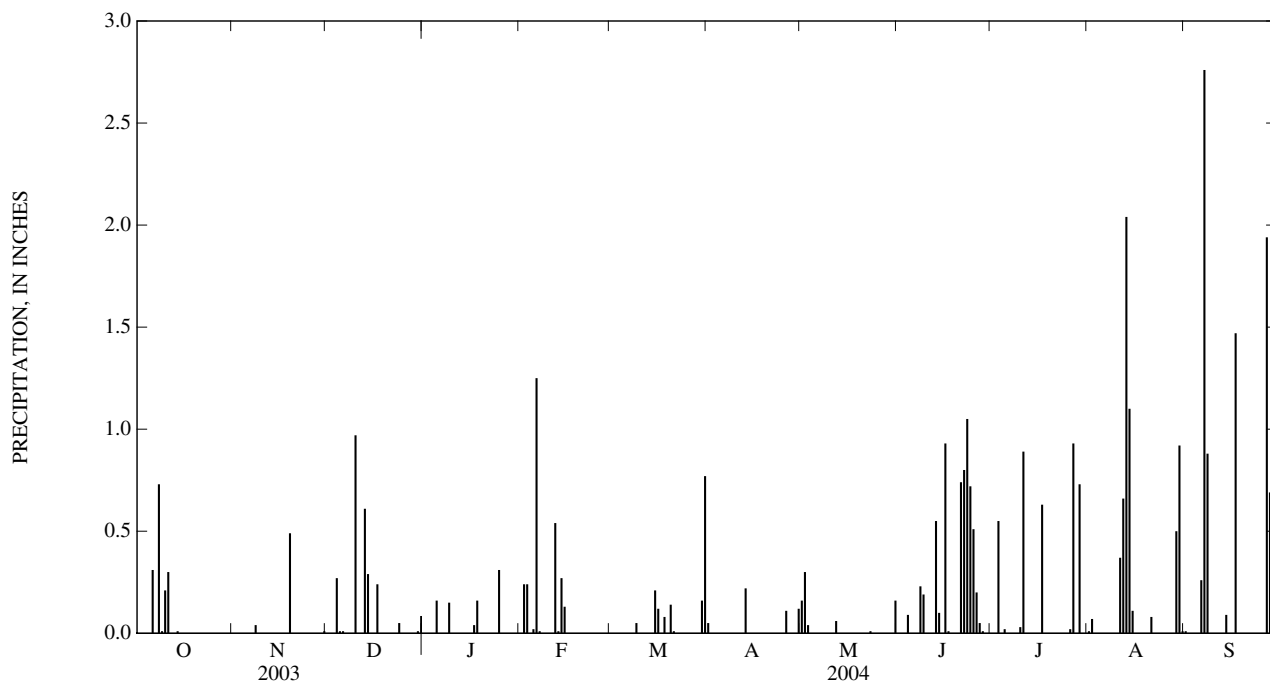
PERIOD OF RECORD.--March 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.00	0.00	0.01	0.01
2	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.30	0.00	0.00	0.07	0.00
3	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.04	0.00	0.55	0.00	0.00
4	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
5	0.00	0.00	0.01	0.16	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00
6	0.31	0.00	0.01	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.26
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.76
8	0.73	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.88
9	0.01	0.00	0.00	0.15	0.00	0.05	0.00	0.00	0.19	0.00	0.00	0.00
10	0.21	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
11	0.30	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.89	0.37	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	---	0.06	0.00	0.00	0.66	0.00
13	0.00	0.00	0.61	0.00	0.01	0.00	0.22	0.00	0.55	0.00	2.04	0.00
14	0.01	0.00	0.29	0.00	0.27	0.00	0.00	0.00	0.10	0.00	1.10	0.09
15	0.00	0.00	0.00	0.00	0.13	0.21	0.00	0.00	0.00	0.00	0.11	0.00
16	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.93	0.00	0.00	0.00
17	0.00	0.00	0.24	0.04	0.00	0.00	0.00	0.00	0.01	0.63	0.00	1.47
18	0.00	0.00	0.00	0.16	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.74	0.00	0.08	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.05	0.00	0.00	0.00
24	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00
25	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	---	0.00	0.11	0.00	0.20	0.02	0.00	0.00
27	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.93	0.00	1.94
28	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.69
29	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.50	0.00
30	0.00	0.01	0.01	0.00	---	0.16	0.12	0.00	0.00	0.00	0.92	0.00
31	0.00	---	0.00	0.00	---	0.77	---	0.16	---	0.00	0.01	---
TOTAL	---	0.54	2.46	0.82	---	1.54	---	0.73	6.18	3.80	5.87	8.10



352224080500345 CRN49

LOCATION.--Lat 35°22'24", long 80°50'03", Mecklenburg County, Hydrologic Unit 03050101, North Mecklenburg High School, Old Statesville Rd., Huntersville, NC.

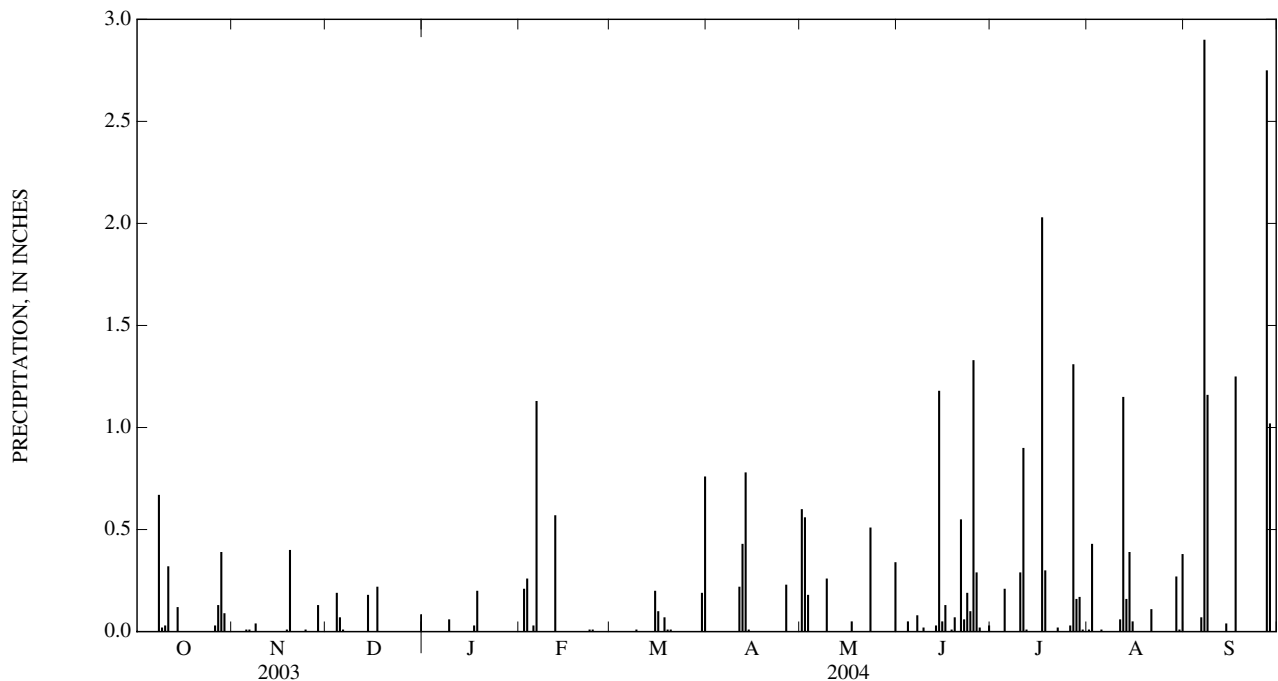
PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	0.00	---	0.00	0.60	0.00	0.00	0.01	0.00
2	0.00	0.00	0.00	---	0.21	---	0.00	0.56	0.00	0.00	0.43	0.00
3	0.00	0.00	0.00	---	0.26	---	0.00	0.18	0.00	0.00	0.00	0.00
4	0.00	0.00	0.19	---	0.00	---	0.00	0.00	0.05	0.00	0.00	0.00
5	0.00	0.01	0.07	---	0.03	---	0.00	0.00	0.00	0.21	0.01	0.00
6	0.00	0.01	0.01	---	1.13	---	0.00	0.00	0.00	0.00	0.00	0.07
7	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.08	0.00	0.00	2.90
8	0.67	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16
9	0.02	0.00	0.00	0.06	0.00	0.01	0.00	0.26	0.02	0.00	0.00	0.00
10	0.03	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00
11	0.32	0.00	---	0.00	0.00	0.00	0.22	0.00	0.00	0.90	0.06	0.00
12	0.00	0.00	---	0.00	0.57	0.00	0.43	0.00	0.00	0.01	1.15	0.00
13	0.00	0.00	---	0.00	---	0.00	0.78	0.00	0.03	0.00	0.16	0.00
14	0.12	0.00	0.18	0.00	---	0.00	0.01	0.00	1.18	0.00	0.39	0.04
15	0.00	0.00	0.00	0.00	---	0.20	0.00	0.00	0.05	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	---	0.10	0.00	0.00	0.13	0.00	0.00	0.00
17	0.00	0.00	0.22	0.03	---	0.00	0.00	0.05	0.00	2.03	0.00	1.25
18	0.00	0.01	0.00	0.20	0.00	0.07	0.00	0.00	0.01	0.30	0.00	0.00
19	0.00	0.40	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.11	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.02	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.51	0.19	0.00	0.00	0.00
24	0.00	0.01	0.00	---	0.01	0.00	0.00	0.00	0.10	0.00	0.00	0.00
25	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00
26	0.03	0.00	---	---	---	0.00	0.23	0.00	0.29	0.03	0.00	0.00
27	0.13	0.00	---	---	0.00	0.00	0.00	0.00	0.02	1.31	0.00	2.75
28	0.39	0.13	---	---	---	0.00	0.00	0.00	0.00	0.16	0.00	1.02
29	0.09	0.00	---	---	---	0.00	0.00	0.00	0.00	0.17	0.27	0.00
30	0.00	0.00	---	0.00	---	0.19	0.00	0.00	0.03	0.01	0.01	0.00
31	0.00	---	---	0.00	---	0.76	---	0.34	---	0.00	0.38	---
TOTAL	1.80	0.61	---	---	---	---	1.67	2.50	4.19	5.44	3.03	9.19



351502080512045 CRN50

LOCATION.--Lat 35°15'02", long 80°51'20", Mecklenburg County, Hydrologic Unit 03050103, Vest Treatment Plant, Charlotte, NC

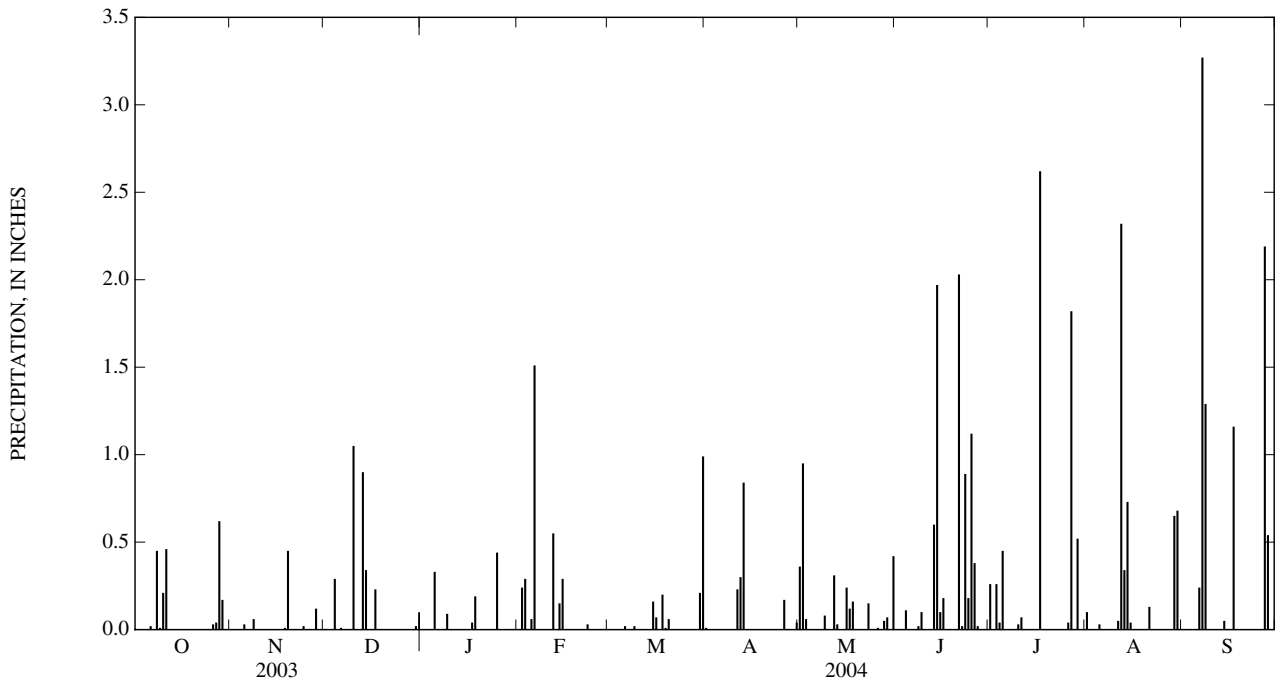
PERIOD OF RECORD.--October 2002 to September 2003. Records for July 1999 to June 2002 at site Oaklawn School of Math and Science (station 351503080510145).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.36	0.00	0.26	0.10	0.00
2	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.95	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.06	0.00	0.26	0.00	0.00
4	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.11	0.04	0.00	0.00
5	0.00	0.03	0.00	0.33	0.06	0.00	0.00	0.00	0.00	0.45	0.03	0.00
6	0.02	0.00	0.01	0.00	1.51	0.02	0.00	0.00	0.00	0.00	0.00	0.24
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.27
8	0.45	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.29
9	0.01	0.00	0.00	0.09	0.00	0.02	0.00	0.08	0.10	0.00	0.00	0.00
10	0.21	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
11	0.46	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.07	0.05	0.00
12	0.00	0.00	0.00	0.00	0.55	0.00	0.30	0.31	0.00	0.00	2.32	0.00
13	0.00	0.00	0.90	0.00	0.00	0.00	0.84	0.03	0.60	0.00	0.34	0.00
14	0.00	0.00	0.34	0.00	0.15	0.00	0.00	0.00	1.97	0.00	0.73	0.05
15	0.00	0.00	0.00	0.00	0.29	0.16	0.00	0.00	0.10	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.24	0.18	0.00	0.00	0.00
17	0.00	0.00	0.23	0.04	0.00	0.00	0.00	0.12	0.00	2.62	0.00	1.16
18	0.00	0.01	0.00	0.19	0.00	0.20	0.00	0.16	0.00	0.00	0.00	0.00
19	0.00	0.45	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.03	0.00	0.13	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.15	0.89	0.00	0.00	0.00
24	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00
25	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	---	0.00	0.17	0.01	0.38	0.04	0.00	0.00
27	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.82	0.00	2.19
28	0.62	0.12	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.54
29	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.52	0.65	0.00
30	0.00	0.00	0.02	0.00	---	0.21	0.04	0.00	0.00	0.00	0.68	0.00
31	0.00	---	0.00	0.00	---	0.99	---	0.42	---	0.00	0.00	---
TOTAL	2.01	0.69	2.84	1.09	---	1.74	1.59	3.01	7.72	6.11	5.07	8.74



352310080424845 CRN51

LOCATION.--Lat 35°23'00", long 80°42'54", Cabarrus County, Hydrologic Unit 03040105, Concord Regional Airport, Aviation Boulevard, Concord, NC.

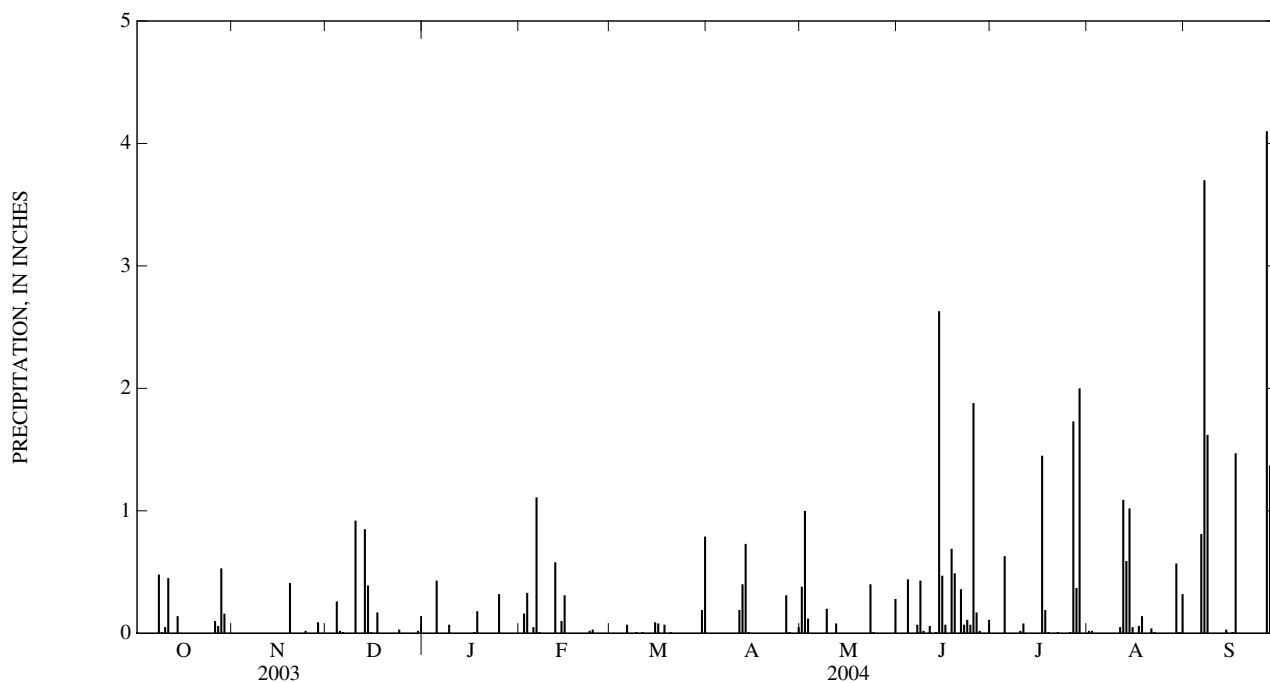
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.02	0.00
2	0.00	0.00	0.00	0.00	0.16	0.00	0.00	1.00	0.00	0.00	0.02	0.00
3	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.12	0.00	0.00	0.00	0.00
4	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
5	0.00	0.00	0.02	0.43	0.05	0.00	0.00	0.00	0.00	0.63	0.00	0.00
6	0.00	0.00	0.01	0.00	1.11	0.07	0.00	0.00	0.00	0.00	0.00	0.81
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.00	0.00	3.70
8	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	1.62
9	0.01	0.00	0.00	0.07	0.00	0.01	0.00	0.20	0.02	0.00	0.00	0.00
10	0.05	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
11	0.45	0.00	0.00	0.00	0.00	0.01	0.19	0.00	0.06	0.08	0.05	0.00
12	0.00	0.00	0.00	0.00	0.58	0.00	0.40	0.08	0.00	0.00	1.09	0.00
13	0.00	0.00	0.85	0.00	0.00	0.00	0.73	0.00	0.01	0.00	0.59	0.00
14	0.14	0.00	0.39	0.00	0.10	0.00	0.01	0.00	2.63	0.00	1.02	0.03
15	0.00	0.00	0.01	0.00	0.31	0.09	0.00	0.00	0.47	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.07	0.00	0.00	0.01
17	0.00	0.00	0.17	0.01	0.00	0.00	0.00	0.00	0.00	1.45	0.06	1.47
18	0.00	0.00	0.00	0.18	0.00	0.07	0.00	0.00	0.69	0.19	0.14	0.00
19	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.04	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.01	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.40	0.11	0.00	0.00	0.00
24	0.00	0.02	0.03	0.00	0.03	0.00	0.00	0.01	0.07	0.00	0.00	0.00
25	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00
26	0.10	0.00	0.00	0.00	---	0.00	0.31	0.00	0.17	0.01	0.00	0.00
27	0.06	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.73	0.00	4.10
28	0.53	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	1.37
29	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.57	0.00
30	0.00	0.00	0.02	0.00	---	0.19	0.05	0.00	0.11	0.00	0.01	0.00
31	0.00	---	0.00	0.00	---	0.79	---	0.28	---	0.00	0.32	---
TOTAL	1.98	0.52	2.68	1.01	---	1.32	1.70	2.47	8.17	6.50	3.99	13.11



351753081011745 CRN52

LOCATION.--Lat 35°17'53", long 81°01'13", Gaston County, Hydrologic Unit 03050101, Ida Rankin Elementary School, Central Avenue, Mt. Holly, NC.

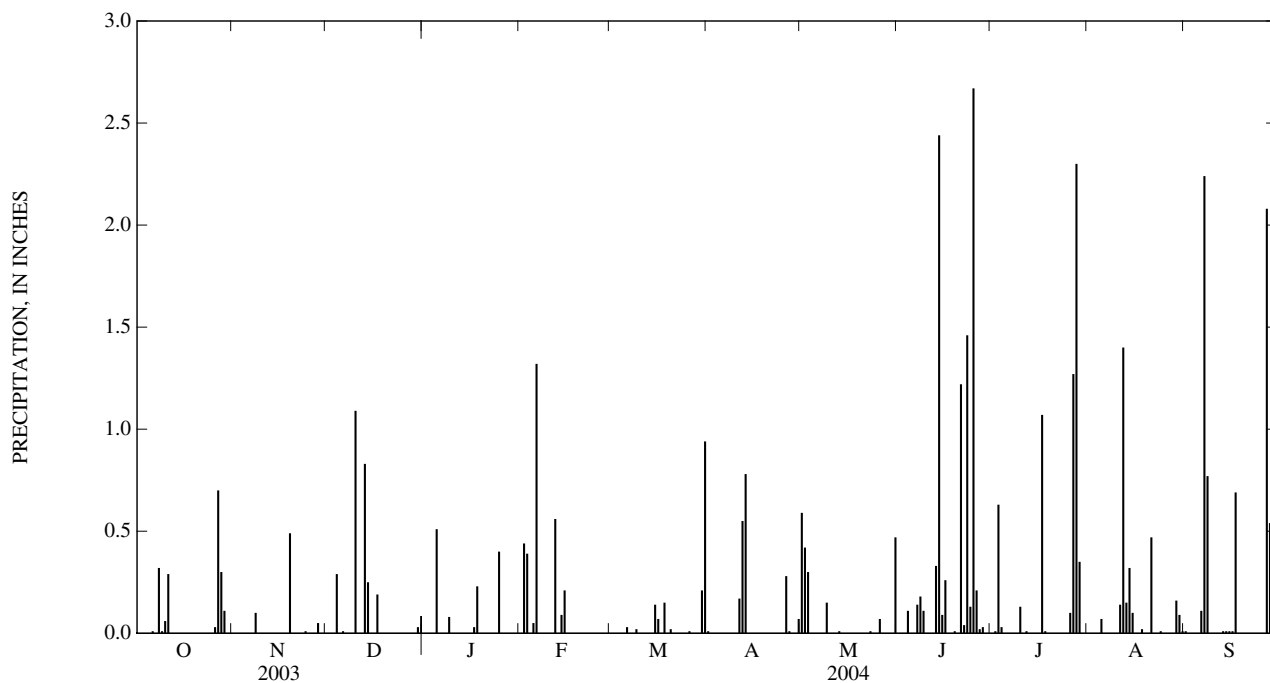
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.59	0.00	0.00	0.00	0.01
2	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.42	0.00	0.01	0.00	0.00
3	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.30	0.00	0.63	0.00	0.00
4	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.11	0.03	0.00	0.00
5	0.00	0.00	0.00	0.51	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.00
6	0.01	0.00	0.01	0.00	1.32	0.03	0.00	0.00	0.00	0.00	0.00	0.11
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	2.24
8	0.32	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.77
9	0.01	0.00	0.00	0.08	0.00	0.02	0.00	0.15	0.11	0.00	0.00	0.00
10	0.06	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
11	0.29	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.14	0.00
12	0.00	0.00	0.00	0.00	0.56	0.00	0.55	0.00	0.00	0.01	1.40	0.00
13	0.00	0.00	0.83	0.00	0.00	0.00	0.78	0.01	0.33	0.00	0.15	0.01
14	0.00	0.00	0.25	0.00	0.09	0.00	0.00	0.00	2.44	0.00	0.32	0.01
15	0.00	0.00	0.00	0.00	0.21	0.14	0.00	0.00	0.09	0.00	0.10	0.01
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.26	0.00	0.00	0.01
17	0.00	0.00	0.19	0.03	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.69
18	0.00	0.00	0.00	0.23	0.00	0.15	0.00	0.00	0.00	0.01	0.02	0.00
19	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.00	0.47	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.46	0.00	0.00	0.00
24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.00
25	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	---	0.01	0.28	0.07	0.21	0.10	0.00	0.00
27	0.70	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.27	0.00	2.08
28	0.30	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.30	0.00	0.54
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.16	0.00
30	0.00	0.00	0.03	0.00	---	0.21	0.07	0.00	0.00	0.00	0.09	0.00
31	0.00	---	0.00	0.00	---	0.94	---	0.47	---	0.00	0.01	---
TOTAL	1.83	0.65	2.69	1.25	---	1.59	1.87	2.02	9.45	5.91	2.94	6.48



351412080541245 CRN53

LOCATION.--Lat 35°14'12", long 80°54'08", Mecklenburg County, Hydrologic Unit 03050103, Harding University High School, Alleghany Street, Charlotte, NC.

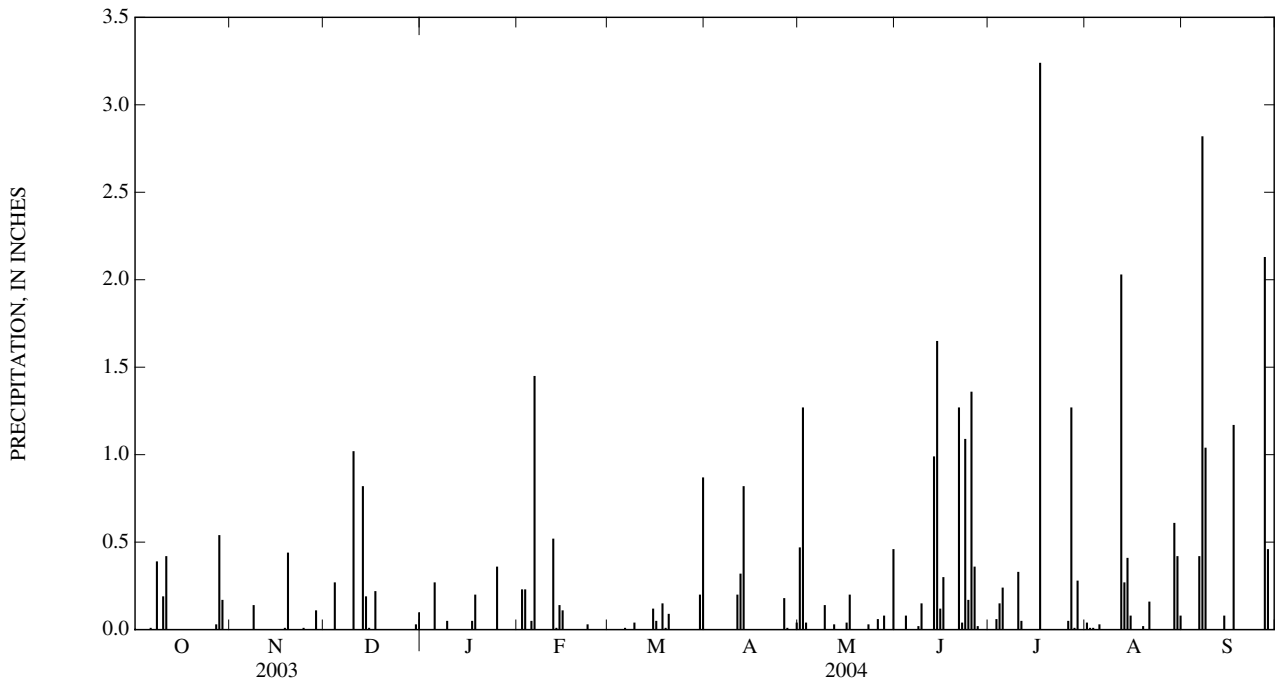
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.04	0.00
2	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1.27	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.04	0.00	0.06	0.01	0.00
4	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.00	0.00
5	0.00	0.00	0.00	0.27	0.05	0.00	0.00	0.00	0.00	0.24	0.03	0.00
6	0.01	0.00	0.00	0.00	1.45	0.01	0.00	0.00	0.00	0.00	0.00	0.42
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.82
8	0.39	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.04
9	0.00	0.00	0.00	0.05	0.00	0.04	0.00	0.14	0.15	0.00	0.00	0.00
10	0.19	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00
11	0.42	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.05	0.00	0.00
12	0.00	0.00	0.00	0.00	0.52	0.00	0.32	0.03	0.00	0.00	2.03	0.00
13	0.00	0.00	0.82	0.00	0.01	0.00	0.82	0.00	0.99	0.00	0.27	0.00
14	0.00	0.00	0.19	0.00	0.14	0.00	0.00	0.00	1.65	0.00	0.41	0.08
15	0.00	0.00	0.01	0.00	0.11	0.12	0.00	0.00	0.12	0.00	0.08	0.00
16	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.04	0.30	0.00	0.00	0.00
17	0.00	0.00	0.22	0.05	0.00	0.00	0.00	0.20	0.00	3.24	0.00	1.17
18	0.00	0.01	0.00	0.20	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.44	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00
20	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.00	0.16	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	1.09	0.00	0.00	0.00
24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
25	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	---	0.00	0.18	0.06	0.36	0.05	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.27	0.00	2.13
28	0.54	0.11	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.01	0.00	0.46
29	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.61	0.00
30	0.00	0.00	0.03	0.00	---	0.20	0.04	0.00	0.00	0.00	0.42	0.00
31	0.00	---	0.00	0.00	---	0.87	---	0.46	---	0.00	0.08	---
TOTAL	1.75	0.71	2.56	0.93	---	1.54	1.57	2.82	7.62	5.68	4.17	8.12



351741080475045 CRN54

LOCATION.--Lat 35°17'43", long 80°47'46", Mecklenburg County, Hydrologic Unit 03040105, Derita Elementary School, West Sugar Creek Road, Charlotte, NC.

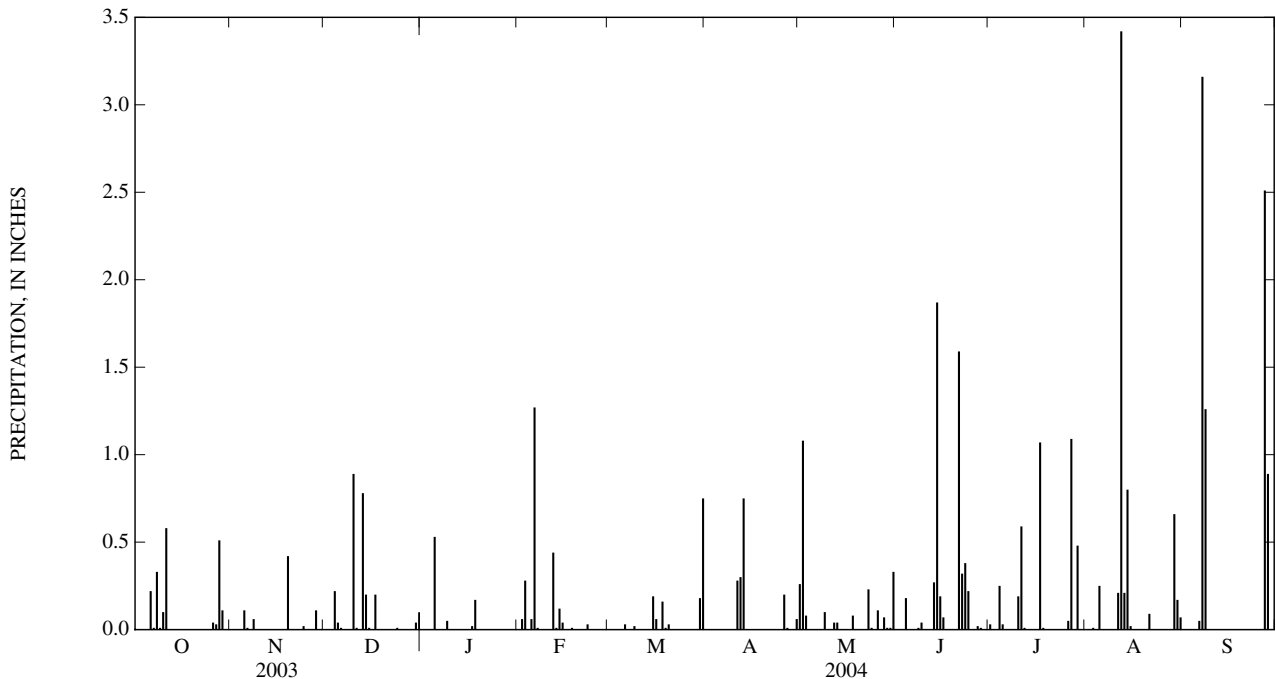
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.03	0.00	0.00
2	0.00	0.00	0.00	0.00	0.06	0.00	0.00	1.08	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.08	0.00	0.00	0.01	0.00
4	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.18	0.25	0.00	0.00
5	0.00	0.11	0.04	0.53	0.06	0.00	0.00	0.00	0.00	0.03	0.25	0.00
6	0.22	0.01	0.01	0.00	1.27	0.03	0.00	0.00	0.00	0.00	0.00	0.05
7	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	3.16
8	0.33	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.26
9	0.01	0.00	0.00	0.05	0.00	0.02	0.00	0.10	0.04	0.00	0.00	0.00
10	0.10	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00
11	0.58	0.00	0.01	0.00	0.00	0.00	0.28	0.00	0.00	0.59	0.21	0.00
12	0.00	0.00	0.00	0.00	0.44	0.00	0.30	0.04	0.00	0.01	3.42	0.00
13	0.00	0.00	0.78	0.00	0.01	0.00	0.75	0.04	0.27	0.00	0.21	0.00
14	0.00	0.00	0.20	0.00	0.12	0.00	0.00	0.00	1.87	0.00	0.80	0.00
15	0.00	0.00	0.01	0.00	0.04	0.19	0.00	0.00	0.19	0.00	0.02	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.07	0.00	0.00	---
17	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.00	1.07	0.00	---
18	0.00	0.00	0.00	0.17	0.01	0.16	0.00	0.08	0.00	0.01	0.00	0.00
19	0.00	0.42	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.59	0.00	0.09	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.23	0.38	0.00	0.00	0.00
24	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.22	0.00	0.00	0.00
25	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.20	0.11	---	0.05	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.09	0.00	2.51
28	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.00	0.89
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.48	0.66	0.00
30	0.00	0.00	0.04	0.00	---	0.18	0.06	0.01	0.00	0.00	0.17	0.00
31	0.00	---	0.00	0.00	---	0.75	---	0.33	---	0.00	0.07	---
TOTAL	1.94	0.73	2.41	---	---	1.43	1.60	2.45	---	3.80	5.91	---



350324080551845 CRN55

LOCATION.--Lat 35°03'26", long 80°55'15", York County, South Carolina, Hydrologic Unit 03050103, private residence, Hammond Road, Fort Mill, SC.

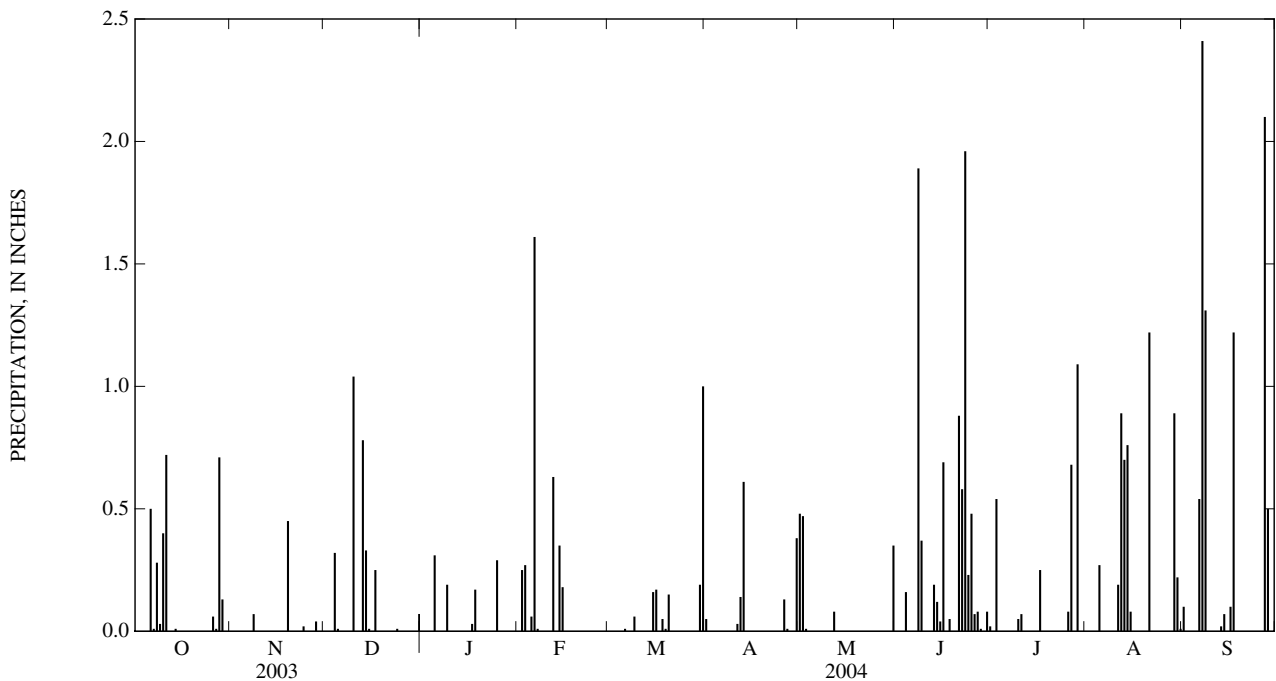
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.48	0.00	0.02	---	0.10
2	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.47	0.00	0.00	---	0.00
3	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.01	0.00	0.54	---	0.00
4	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
5	0.00	0.00	0.01	0.31	0.06	0.00	0.00	0.00	0.00	0.00	0.27	0.00
6	0.50	0.00	0.00	0.00	1.61	0.01	0.00	0.00	0.00	0.00	0.00	0.54
7	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.41
8	0.28	0.07	0.00	0.00	0.00	0.00	0.00	0.00	1.89	0.00	0.00	1.31
9	0.03	0.00	0.00	0.19	0.00	0.06	0.00	0.00	0.37	0.00	0.00	0.00
10	0.40	0.00	1.04	0.00	0.00	0.00	0.00	1.00	0.00	0.05	0.00	0.00
11	0.72	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.07	0.19	0.00
12	0.00	0.00	0.00	0.00	0.63	0.00	0.14	0.08	0.00	0.00	0.89	0.00
13	0.00	0.00	0.78	0.00	0.00	0.00	0.61	0.00	0.19	0.00	0.70	0.02
14	0.01	0.00	0.33	0.00	0.35	0.00	0.00	0.00	0.12	0.00	0.76	0.07
15	0.00	0.00	0.01	0.00	0.18	0.16	0.00	0.00	0.04	0.00	0.08	0.00
16	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.69	0.00	0.00	0.10
17	0.00	0.00	0.25	0.03	0.00	0.00	0.00	0.00	0.00	0.25	0.00	1.22
18	0.00	0.00	0.00	0.17	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.00
19	0.00	0.45	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.00	1.22	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.96	0.00	0.00	0.00
24	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00
25	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00
26	0.06	0.00	0.00	0.00	---	0.00	0.13	0.00	0.07	0.08	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.08	0.68	0.00	2.10
28	0.71	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.50
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.89	0.00
30	0.00	0.00	0.00	0.00	---	0.19	0.38	0.00	0.08	0.00	0.22	0.00
31	0.00	---	0.00	0.00	---	1.00	---	0.35	---	0.00	0.01	---
TOTAL	2.86	0.58	2.75	0.99	---	1.80	1.35	1.39	7.88	2.78	---	8.37



350635080513245 CRN56

LOCATION.--Lat 35°06'35", long 80°51'32", Mecklenburg County, Hydrologic Unit 03050103, South Mecklenburg High School, Park Road, Charlotte, NC.

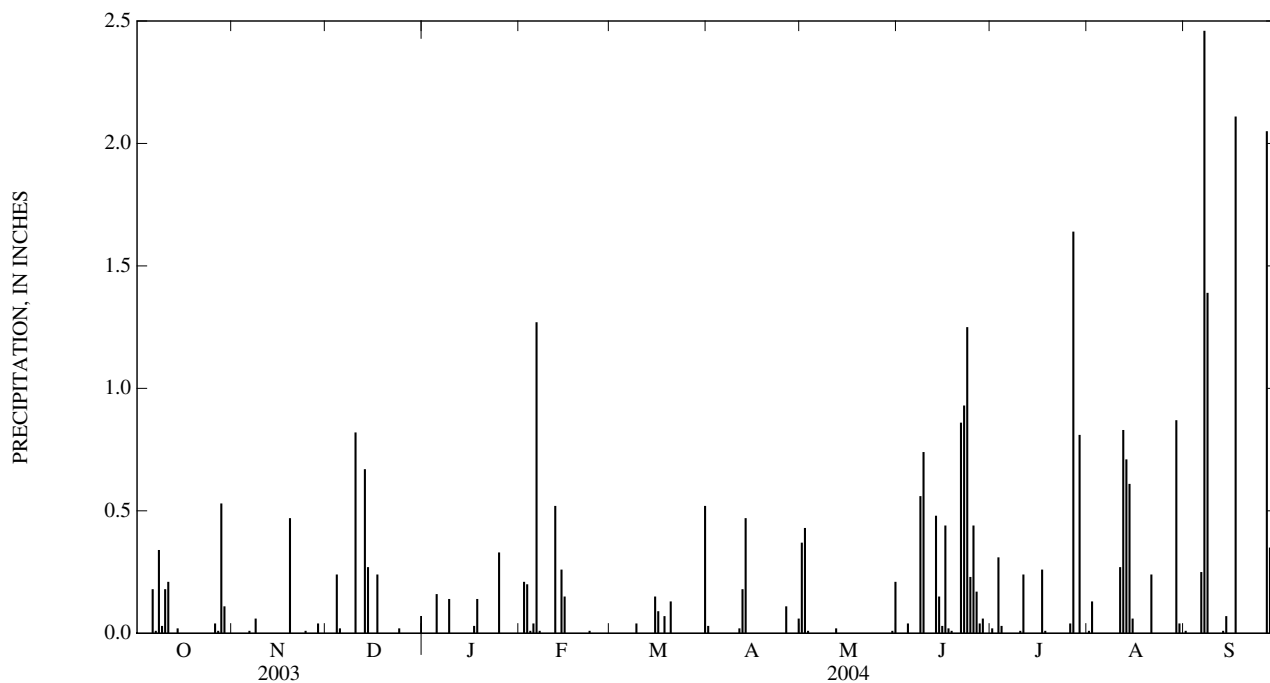
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.37	0.00	0.02	0.01	0.01
2	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.43	0.00	0.00	0.13	0.00
3	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.01	0.00	0.31	0.00	0.00
4	0.00	0.00	0.24	0.00	0.01	0.00	0.00	0.00	0.04	0.03	0.00	0.00
5	0.00	0.00	0.02	0.16	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.18	0.01	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25
7	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.46
8	0.34	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	1.39
9	0.03	0.00	0.00	0.14	0.00	0.04	0.00	0.00	0.74	0.00	0.00	0.00
10	0.18	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.21	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.24	0.27	0.00
12	0.00	0.00	0.00	0.00	0.52	0.00	0.18	0.02	0.00	0.00	0.83	0.00
13	0.00	0.00	0.67	0.00	0.00	0.00	0.47	0.00	0.48	0.00	0.71	0.01
14	0.02	0.00	0.27	0.00	0.26	0.00	0.00	0.00	0.15	0.00	0.61	0.07
15	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.03	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.44	0.00	0.00	0.00
17	0.00	0.00	0.24	0.03	0.00	0.00	0.00	0.00	0.02	0.26	0.00	2.11
18	0.00	0.00	0.00	0.14	0.00	0.07	0.00	0.00	0.01	0.01	0.00	0.00
19	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.24	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.25	0.00	0.00	0.00
24	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00
25	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
26	0.04	0.00	0.00	0.00	---	0.00	0.11	0.00	0.17	0.04	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.64	0.00	2.05
28	0.53	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.35
29	0.11	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.81	0.87	0.00
30	0.00	0.00	0.00	0.00	---	---	0.06	0.01	0.00	0.00	0.04	0.00
31	0.00	---	0.00	0.00	---	0.52	---	0.21	---	0.00	0.00	---
TOTAL	1.66	0.59	2.28	0.80	---	---	0.87	1.05	6.45	3.37	3.77	8.70



351109080412145 CRN57

LOCATION.--Lat 35°11'03", long 80°41'22", Mecklenburg County, Hydrologic Unit 03050103, Lebanon Road Elementary School, Lebanon Road, Charlotte, NC.

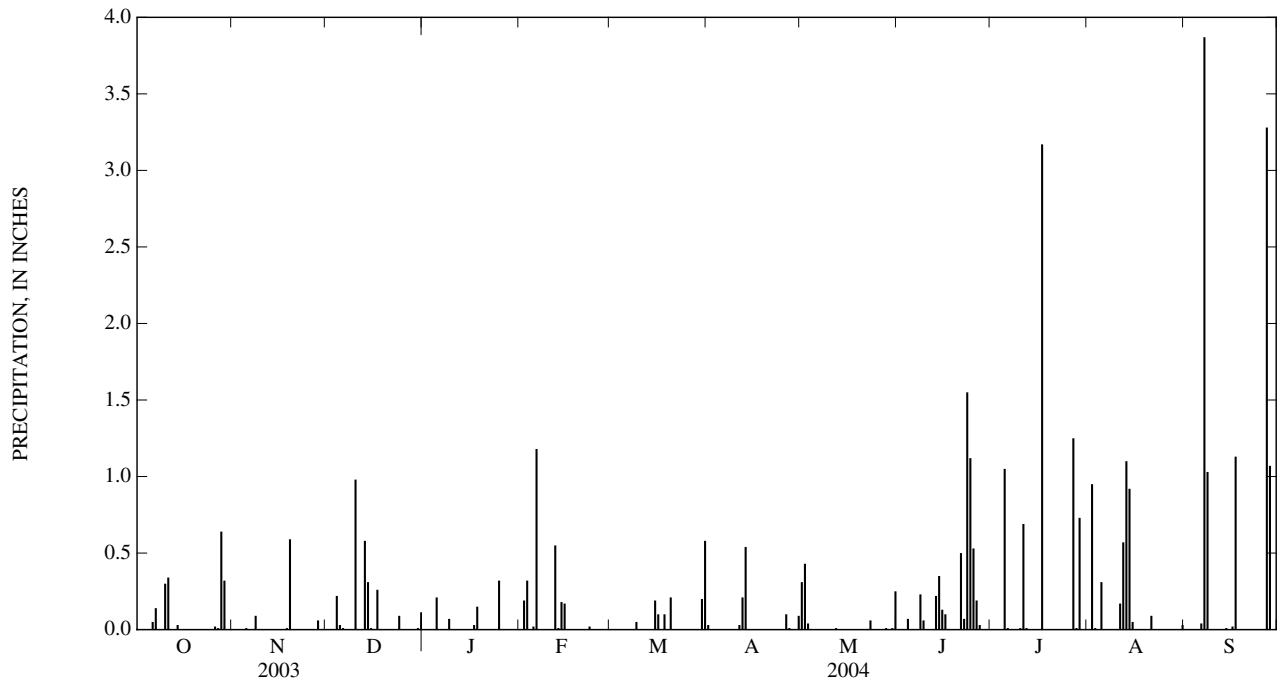
PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.31	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.43	0.00	0.00	0.95	0.00
3	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.04	0.00	0.00	0.01	0.00
4	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
5	0.00	0.01	0.03	0.21	0.02	0.00	0.00	0.00	0.00	1.05	0.31	0.00
6	0.05	0.00	0.01	0.00	1.18	0.00	0.00	0.00	0.00	0.01	0.00	0.04
7	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.87
8	---	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	1.03
9	---	0.00	0.00	0.07	0.00	0.05	0.00	0.00	0.06	0.00	0.00	0.00
10	0.30	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.34	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.69	0.17	0.00
12	0.00	0.00	0.00	0.00	0.55	0.00	0.21	0.01	0.00	0.01	0.57	0.00
13	0.00	0.00	0.58	0.00	0.01	0.00	0.54	0.00	0.22	0.00	1.10	0.00
14	0.03	0.00	0.31	0.00	0.18	0.00	0.00	0.00	0.35	0.00	0.92	0.01
15	0.00	0.00	0.01	0.00	0.17	0.19	0.00	0.00	0.13	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.02
17	0.00	0.00	0.26	0.03	0.00	0.00	0.00	0.00	0.00	3.17	0.00	1.13
18	0.00	0.01	0.00	0.15	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.09	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.06	1.55	0.00	0.00	0.00
24	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00
25	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00
26	0.02	0.00	0.00	0.00	---	0.00	0.10	0.00	0.19	0.00	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	1.25	0.00	3.28
28	0.64	0.06	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	1.07
29	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00
30	0.00	0.00	0.01	0.00	---	0.20	0.09	0.01	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.58	---	0.25	---	0.00	0.03	---
TOTAL	---	0.76	2.50	0.78	---	1.43	1.01	1.12	5.15	6.93	4.20	10.45



352006080462845 CRN58

LOCATION.--Lat 35°20'06", long 80°46'28", Mecklenburg County, North Carolina, Hydrologic Unit 03050103, Mallard Creek Elementary School, Charlotte, NC.

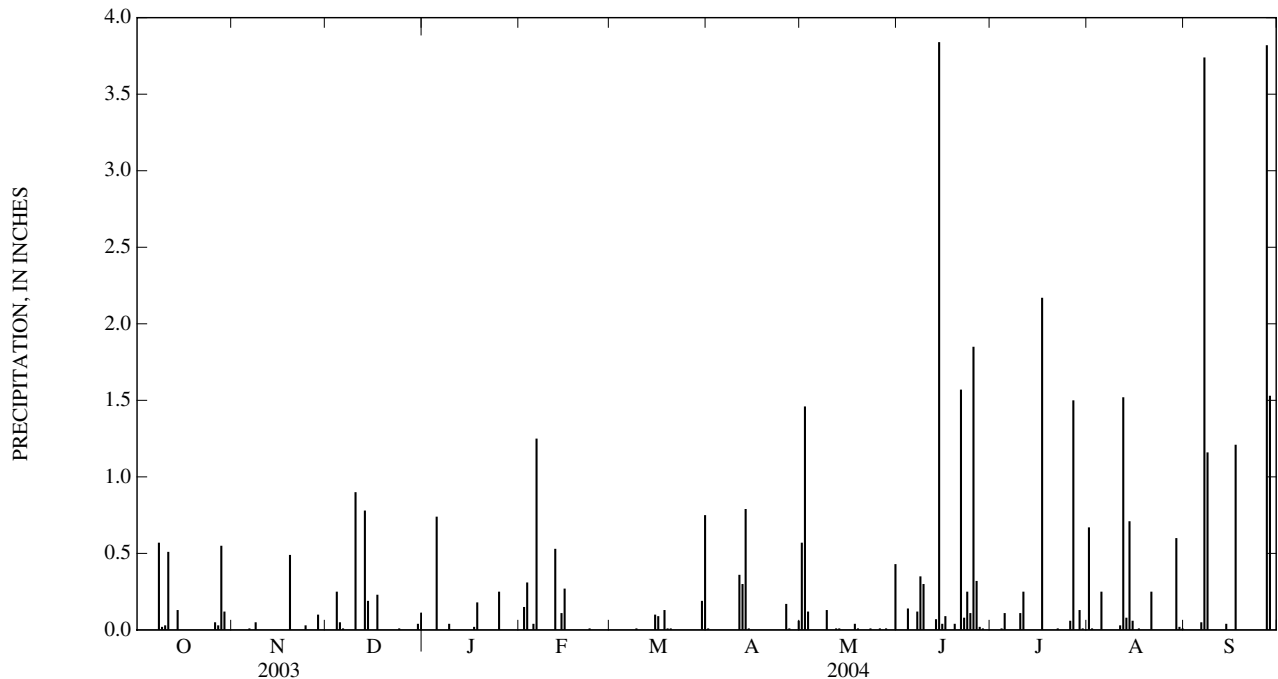
PERIOD OF RECORD.--October 2002 to September 2003. Records for June 2000 to June 2001 at site Highland Elementary School, Charlotte, NC (station 351441080481545).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.57	0.00	0.00	0.67	0.00
2	0.00	0.00	0.00	0.00	0.15	0.00	0.00	1.46	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.12	0.00	0.00	0.00	0.00
4	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.14	0.01	0.00	0.00
5	0.00	0.00	0.05	0.74	0.04	0.00	0.00	0.00	0.00	0.11	0.25	0.00
6	0.00	0.01	0.01	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.05
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	3.74
8	0.57	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	1.16
9	0.02	0.00	0.00	0.04	0.00	0.01	0.00	0.13	0.30	0.00	0.00	0.00
10	0.03	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
11	0.51	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.25	0.03	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.30	0.01	0.00	0.00	1.52	0.00
13	0.00	0.00	0.78	0.00	0.00	0.00	0.79	0.01	0.07	0.00	0.08	0.00
14	0.13	0.00	0.19	0.00	0.11	0.00	0.01	0.00	3.84	0.00	0.71	0.04
15	0.00	0.00	0.00	0.00	0.27	0.10	0.00	0.00	0.04	0.00	0.06	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.09	0.00	0.00	0.00
17	0.00	0.00	0.23	0.02	0.00	0.00	0.00	0.00	0.00	2.17	0.01	1.21
18	0.00	0.00	0.00	0.18	0.00	0.13	0.00	0.04	0.00	0.00	0.00	0.00
19	0.00	0.49	0.00	0.00	0.00	0.01	0.00	0.01	0.04	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.00	0.25	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.25	0.00	0.00	0.00
24	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	1.85	0.00	0.00	0.00
26	0.05	0.00	0.00	0.00	---	0.00	0.17	0.01	0.32	0.06	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	1.50	0.00	3.82
28	0.55	0.10	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	1.53
29	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.60	0.00
30	0.00	0.00	0.04	0.00	---	0.19	0.06	0.00	0.00	0.01	0.02	0.00
31	0.00	---	0.00	0.00	---	0.75	---	0.43	---	0.00	0.01	---
TOTAL	2.01	0.68	2.46	1.23	---	1.29	1.71	2.81	9.20	4.36	4.22	11.55



350624081023345 CRN59

LOCATION.--Lat 35°06'24", long 81°02'33", York County, South Carolina, Hydrologic Unit 03050101, YMCA Camp Thunderbird, Thunderbird Lane, Lake Wylie, SC.

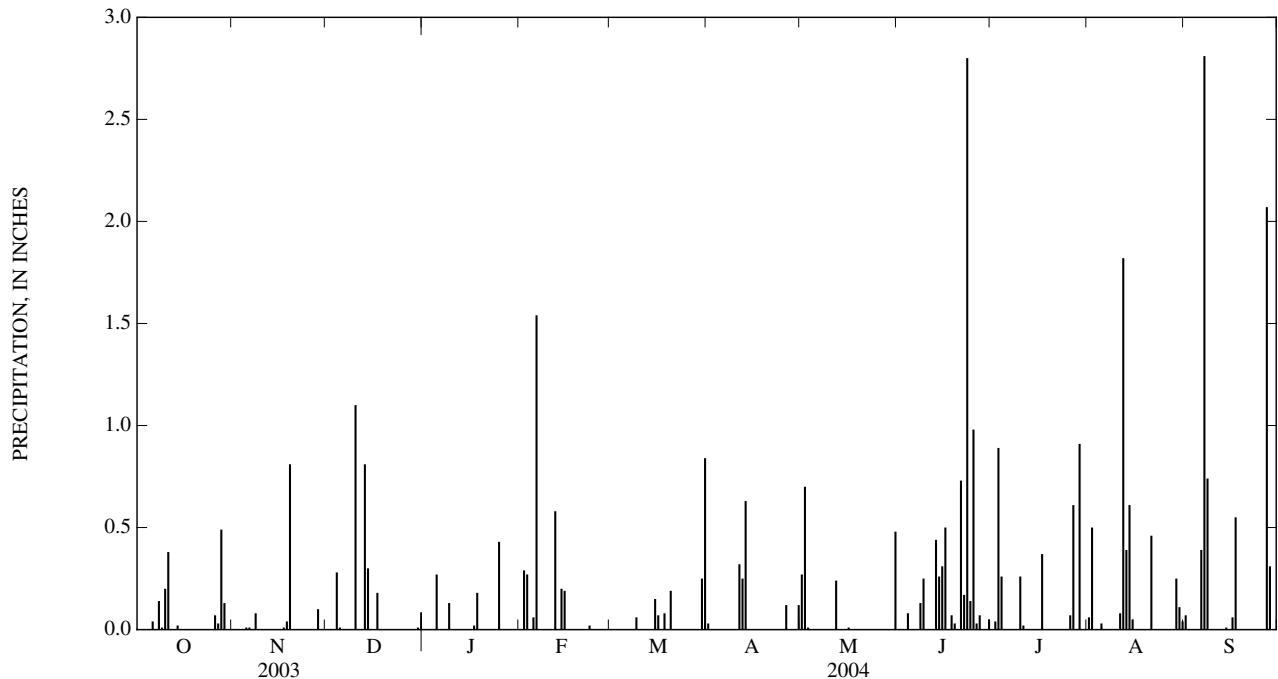
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.27	0.00	0.00	0.06	0.07
2	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.70	0.00	0.04	0.50	0.00
3	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.01	0.00	0.89	0.00	0.00
4	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.08	0.26	0.00	0.00
5	0.00	0.01	0.01	0.27	0.06	0.00	0.00	0.00	0.00	0.00	0.03	0.00
6	0.04	0.01	0.00	0.00	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.39
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81
8	0.14	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.74
9	0.01	0.00	0.00	0.13	0.00	0.06	0.00	0.00	0.25	0.00	0.00	0.00
10	0.20	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00
11	0.38	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.02	0.08	0.00
12	0.00	0.00	0.00	0.00	0.58	0.00	0.25	0.24	0.00	0.00	1.82	0.00
13	0.00	0.00	0.81	0.00	0.00	0.00	0.63	0.00	0.44	0.00	0.39	0.00
14	0.02	0.00	0.30	0.00	0.20	0.00	0.00	0.00	0.26	0.00	0.61	0.01
15	0.00	0.00	0.00	0.00	0.19	0.15	0.00	0.00	0.31	0.00	0.05	0.00
16	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.01	0.50	0.00	0.00	0.06
17	0.00	0.01	0.18	0.02	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.55
18	0.00	0.04	0.00	0.18	0.00	0.08	0.00	0.00	0.07	0.00	0.00	0.00
19	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.46	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	2.80	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
25	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00
26	0.07	0.00	0.00	0.00	---	0.00	0.12	0.00	0.03	0.07	0.00	0.00
27	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.61	0.00	2.07
28	0.49	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
29	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.25	0.00
30	0.00	0.00	0.01	0.00	---	0.25	0.12	0.00	0.05	0.00	0.11	0.00
31	0.00	---	0.00	0.00	---	0.84	---	0.48	---	0.00	0.04	---
TOTAL	1.51	1.06	2.69	1.03	---	1.64	1.47	1.71	7.04	3.43	4.40	7.01



351104080521845 CRN60

LOCATION.--Lat 35°11'05", long 80°52'18", Mecklenburg County, Hydrologic Unit 03050103, Collinswood Elementary School, Applegate Road, Charlotte, NC.

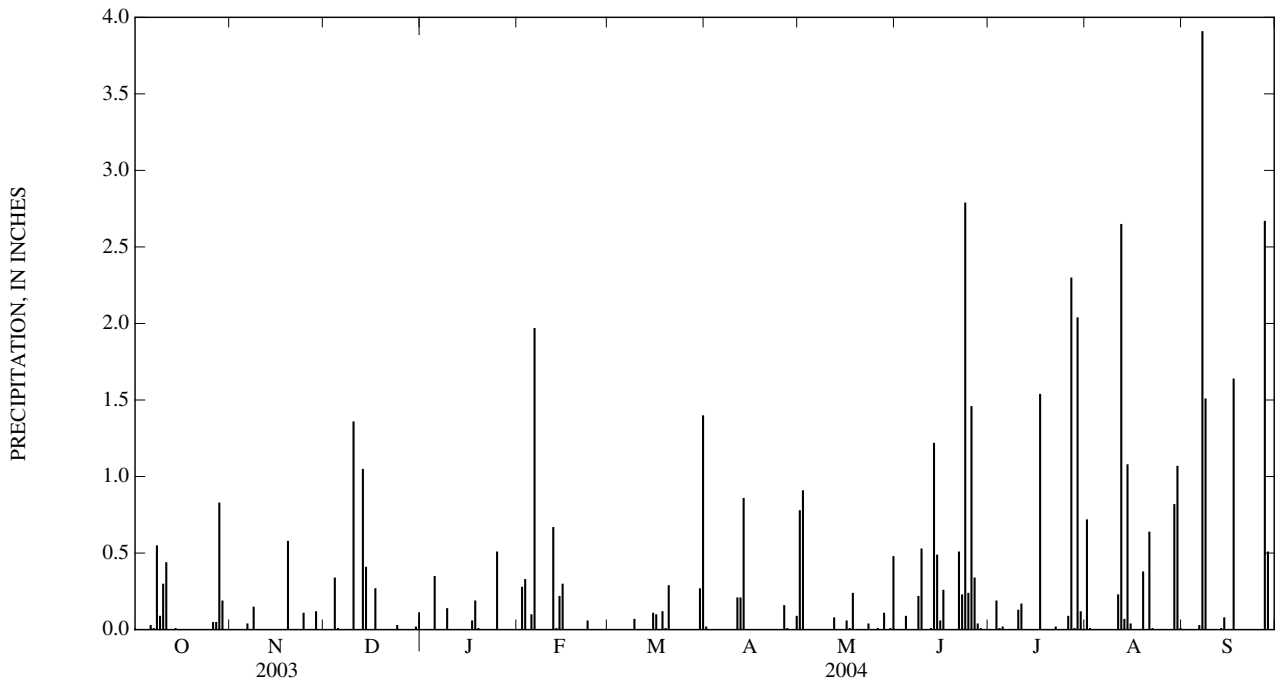
PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.78	0.00	0.00	0.72	0.00
2	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.91	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.19	0.00	0.00
4	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.00	0.00
5	0.00	0.00	0.01	0.35	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.00
6	0.03	0.04	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.03
7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91
8	0.55	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	1.51
9	0.09	0.00	0.00	0.14	0.00	0.07	0.00	0.00	0.53	0.00	0.00	0.00
10	0.30	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
11	0.44	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.17	0.23	0.00
12	0.00	0.00	0.00	0.00	0.67	0.00	0.21	0.08	0.01	0.00	2.65	0.00
13	0.00	0.00	1.05	0.00	0.01	0.00	0.86	0.00	1.22	0.00	0.07	0.01
14	0.01	0.00	0.41	0.00	0.22	0.00	0.00	0.00	0.49	0.00	1.08	0.08
15	0.00	0.00	0.00	0.00	0.30	0.11	0.00	0.00	0.06	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.06	0.26	0.00	0.00	0.00
17	0.00	0.00	0.27	0.06	0.00	0.00	0.00	0.01	0.00	1.54	0.00	1.64
18	0.00	0.00	0.00	0.19	0.00	0.12	0.00	0.24	0.00	0.00	0.00	0.00
19	0.00	0.58	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.38	0.00
20	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.64	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.02	0.01	0.00
23	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.04	2.79	0.00	0.00	0.00
24	0.00	0.11	0.03	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00
25	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00
26	0.05	0.00	0.00	0.00	---	0.00	0.16	0.01	0.34	0.09	0.00	0.00
27	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	2.30	0.00	2.67
28	0.83	0.12	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.01	0.00	0.51
29	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	0.82	0.00
30	0.00	0.00	0.02	0.00	---	0.27	0.09	0.01	0.00	0.12	1.07	0.00
31	0.00	---	0.00	0.00	---	1.40	---	0.48	---	0.00	0.01	---
TOTAL	2.55	1.00	3.49	1.26	---	2.37	1.56	2.73	8.50	6.64	7.73	10.36



351816080564345 CRN61

LOCATION.--Lat 35°18'17", long 80°56'24", Mecklenburg County, Hydrologic Unit 03050101, Coulwood Middle School, 500 Kentberry Drive, Charlotte, NC.

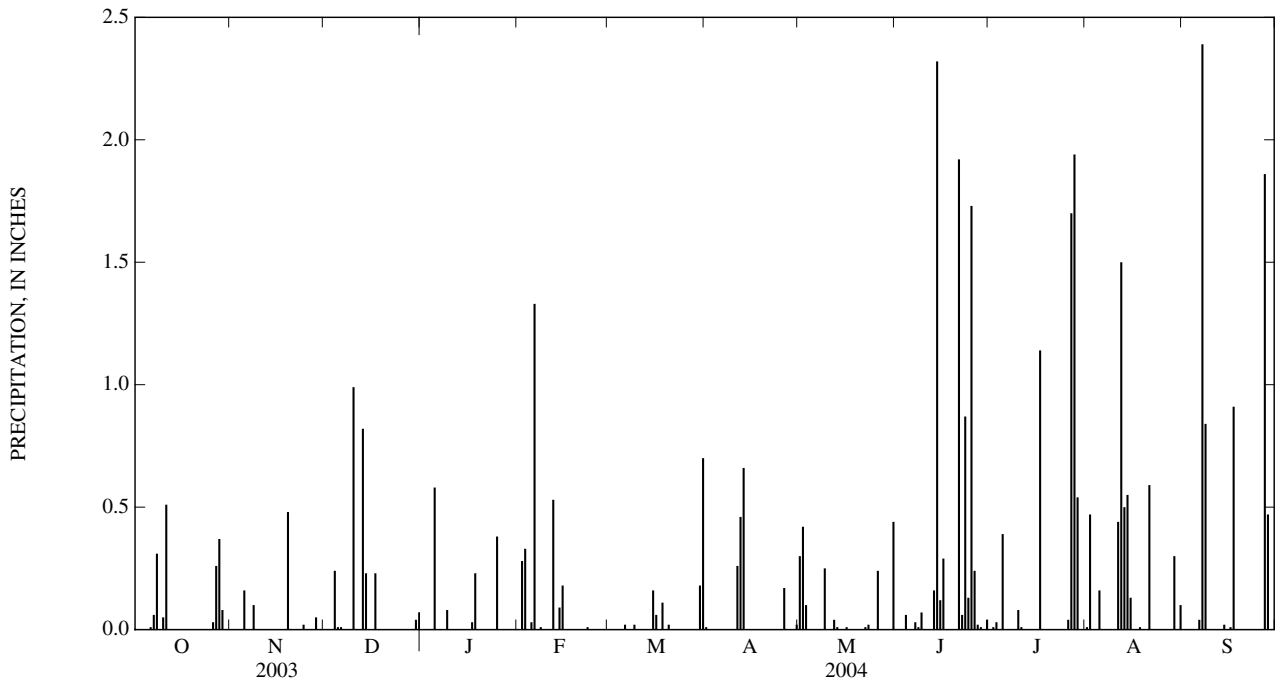
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.30	0.00	0.00	0.01	0.00
2	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.42	0.00	0.01	0.47	0.00
3	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.10	0.00	0.03	0.00	0.00
4	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
5	0.00	0.16	0.01	0.58	0.03	0.00	0.00	0.00	0.00	0.39	0.16	0.00
6	0.01	0.00	0.01	0.00	1.33	0.02	0.00	0.00	0.00	0.00	0.00	0.04
7	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	2.39
8	0.31	0.10	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.84
9	0.00	0.00	0.00	0.08	0.00	0.02	0.00	0.25	0.07	0.00	0.00	0.00
10	0.05	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
11	0.51	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.01	0.44	0.00
12	0.00	0.00	0.00	0.00	0.53	0.00	0.46	0.04	0.00	0.00	1.50	0.00
13	0.00	0.00	0.82	0.00	0.00	0.00	0.66	0.01	0.16	0.00	0.50	0.00
14	0.00	0.00	0.23	0.00	0.09	0.00	0.00	0.00	2.32	0.00	0.55	0.02
15	0.00	0.00	0.00	0.00	0.18	0.16	0.00	0.00	0.12	0.00	0.13	0.00
16	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.29	0.00	0.00	0.01
17	0.00	0.00	0.23	0.03	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.91
18	0.00	0.00	0.00	0.23	0.00	0.11	0.00	0.00	0.00	0.00	0.01	0.00
19	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	0.00	0.59	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.87	0.00	0.00	0.00
24	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
25	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	1.73	0.00	0.00	0.00
26	0.03	0.00	0.00	0.00	---	0.00	0.17	0.24	0.24	0.04	0.00	0.00
27	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.70	0.00	1.86
28	0.37	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.94	0.00	0.47
29	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.30	0.00
30	0.00	0.00	0.04	0.00	---	0.18	0.02	0.00	0.04	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.70	---	0.44	---	0.00	0.10	---
TOTAL	1.68	0.81	2.57	1.30	---	1.27	1.58	1.84	8.08	5.88	4.76	6.54



352523080535545 CRN62

LOCATION.--Lat 35°25'23", long 80°53'55", Mecklenburg County, Hydrologic Unit 03050101, Cooke Farm, Ervin Cooke Road, Charlotte, NC.

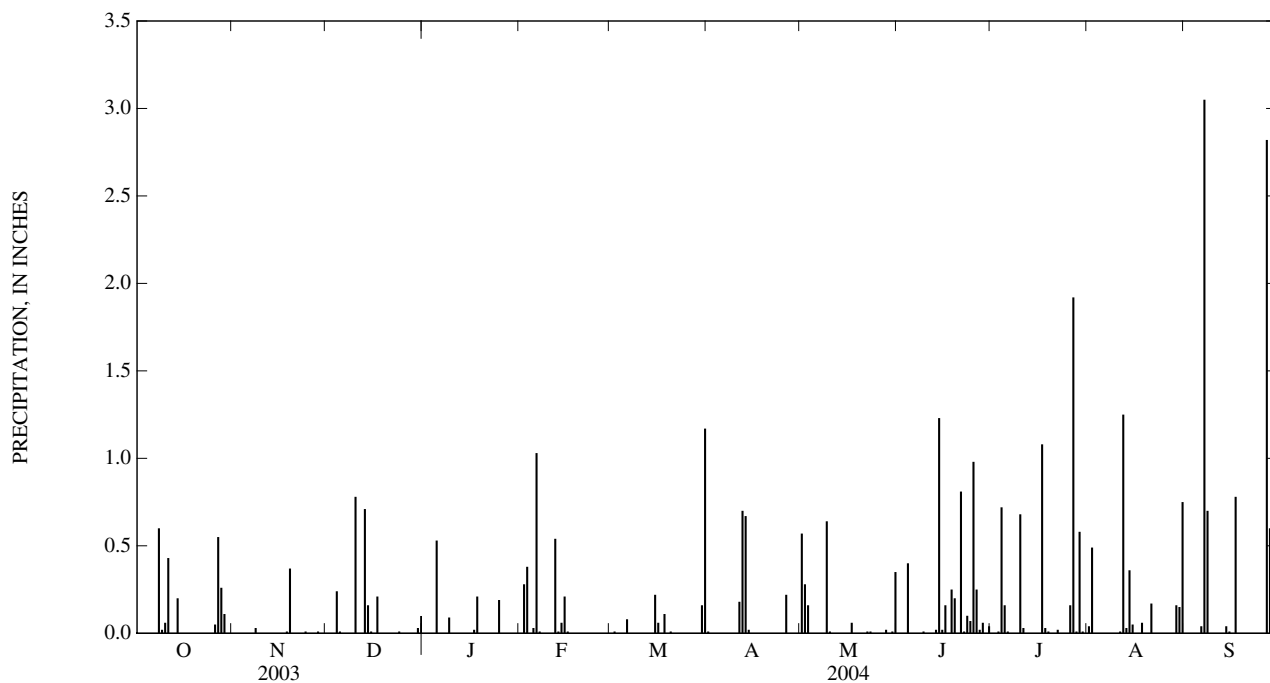
PERIOD OF RECORD.--November 2002 to September 2003.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.57	0.00	0.00	0.04	0.00
2	0.00	0.00	0.00	0.00	0.28	0.01	0.00	0.28	0.00	0.00	0.49	0.00
3	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.16	0.00	0.01	0.00	0.00
4	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.40	0.72	0.00	0.00
5	0.00	0.00	0.01	0.53	0.03	0.00	0.00	0.00	0.00	0.16	0.00	0.00
6	0.00	0.00	0.00	0.00	1.03	0.08	0.00	0.00	0.00	0.01	0.00	0.04
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	3.05
8	0.60	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
9	0.02	0.00	0.00	0.09	0.00	0.00	0.00	0.64	0.01	0.00	0.00	0.00
10	0.06	0.00	0.78	0.00	0.00	0.00	0.00	0.01	0.00	0.68	0.00	0.00
11	0.43	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.03	0.01	0.00
12	0.00	0.00	0.00	0.00	0.54	0.00	0.70	0.00	0.00	0.00	1.25	0.00
13	0.00	0.00	0.71	0.00	0.01	0.00	0.67	0.00	0.02	0.00	0.03	0.00
14	0.20	0.00	0.16	0.00	0.06	0.00	0.02	0.00	1.23	0.00	0.36	0.04
15	0.00	0.00	0.01	0.00	0.21	0.22	0.00	0.00	0.02	0.00	0.05	0.01
16	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.16	0.00	0.00	0.00
17	0.00	0.00	0.21	0.02	0.00	0.00	0.00	0.06	0.00	1.08	0.00	0.78
18	0.00	0.01	0.00	0.21	0.00	0.11	0.00	0.00	0.25	0.03	0.06	0.00
19	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.17	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.00	0.00	0.00
24	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
25	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00
26	0.05	0.00	0.00	0.00	---	0.00	0.22	0.00	0.25	0.16	0.00	0.00
27	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.92	0.00	2.82
28	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.01	0.00	0.60
29	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.16	0.00
30	0.00	0.00	0.03	0.00	---	0.16	0.00	0.01	0.04	0.01	0.15	0.00
31	0.00	---	0.00	0.00	---	1.17	---	0.35	---	0.00	0.75	---
TOTAL	2.28	0.43	2.16	1.04	---	1.82	1.80	2.12	4.63	5.43	3.52	8.04



351928080515645 CRN64

LOCATION.--Lat 35°19'28", long 80°51'56", Mecklenburg County, Hydrologic Unit 03050101, Hornets Nest Elementary School, Beatties Ford Road, Charlotte, NC.

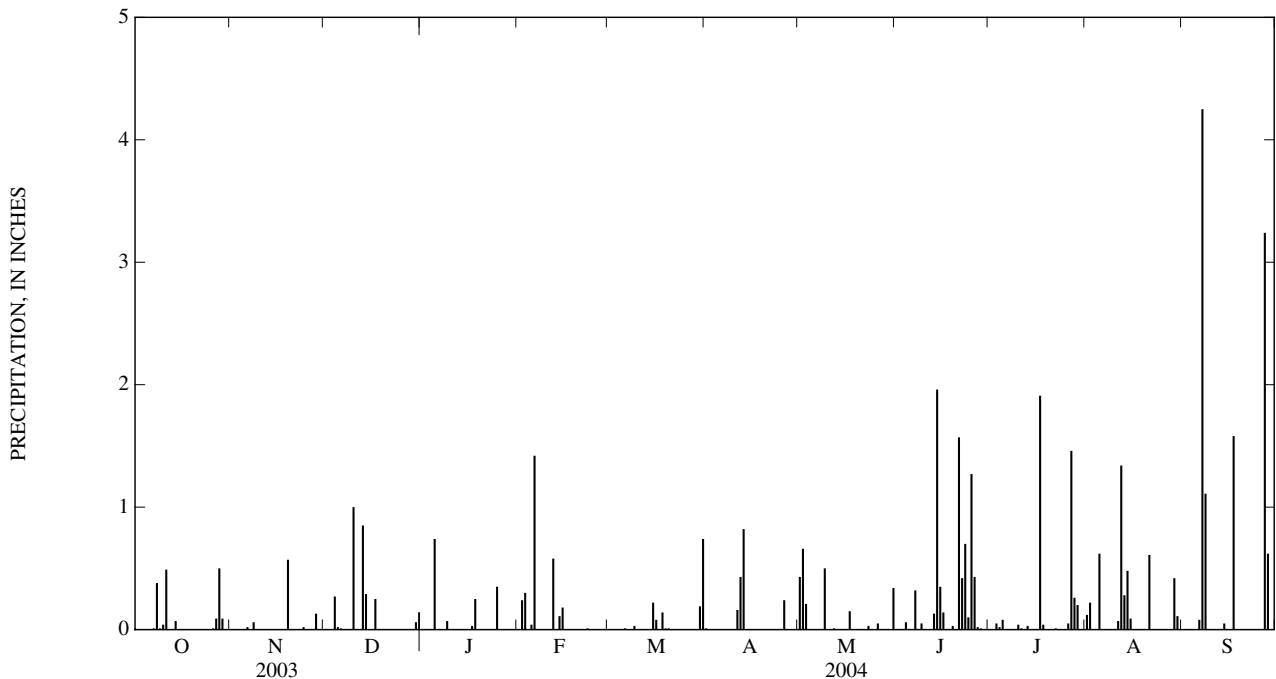
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.43	0.00	0.00	0.12	0.00
2	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.66	0.00	0.00	0.22	0.00
3	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.21	0.00	0.05	0.00	0.00
4	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.06	0.02	0.00	0.00
5	0.00	0.00	0.02	0.74	0.04	0.00	0.00	0.00	0.00	0.08	0.62	0.00
6	0.00	0.02	0.01	0.00	1.42	0.01	0.00	0.00	0.00	0.00	0.00	0.08
7	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	4.25
8	0.38	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11
9	0.01	0.00	0.00	0.07	0.00	0.03	0.00	0.50	0.05	0.00	0.00	0.00
10	0.04	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
11	0.49	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.01	0.07	0.00
12	0.00	0.00	0.00	0.00	0.58	0.00	0.43	0.01	0.00	0.00	1.34	0.00
13	0.00	0.00	0.85	0.00	0.00	0.00	0.82	0.00	0.13	0.03	0.28	0.00
14	0.07	0.00	0.29	0.00	0.11	0.00	0.00	0.00	1.96	0.00	0.48	0.05
15	0.00	0.00	0.00	0.00	0.18	0.22	0.00	0.00	0.35	0.00	0.09	0.00
16	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.14	0.00	0.00	0.00
17	0.00	0.00	0.25	0.03	0.00	0.00	0.00	0.15	0.00	1.91	0.00	1.58
18	0.00	0.00	0.00	0.25	0.00	0.14	0.00	0.00	0.00	0.04	0.00	0.00
19	0.00	0.57	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.00	0.61	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.01	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.70	0.00	0.00	0.00
24	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
25	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	---	0.00	0.24	0.05	0.43	0.05	0.00	0.00
27	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	1.46	0.00	3.24
28	0.50	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.26	0.00	0.62
29	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.42	0.00
30	0.00	0.00	0.06	0.00	---	0.19	0.00	0.00	0.00	0.00	0.11	0.00
31	0.00	---	0.00	0.00	---	0.74	---	0.34	---	0.00	0.00	---
TOTAL	1.69	0.80	2.75	1.44	---	1.43	1.66	2.38	7.56	4.16	4.36	10.93



351229080480145 CRN66

LOCATION.--Lat 35°12'29", long 80°48'03", Mecklenburg County, Hydrologic Unit 03050103, Chantilly Elementary School, Briar Creek Road, Charlotte, NC.

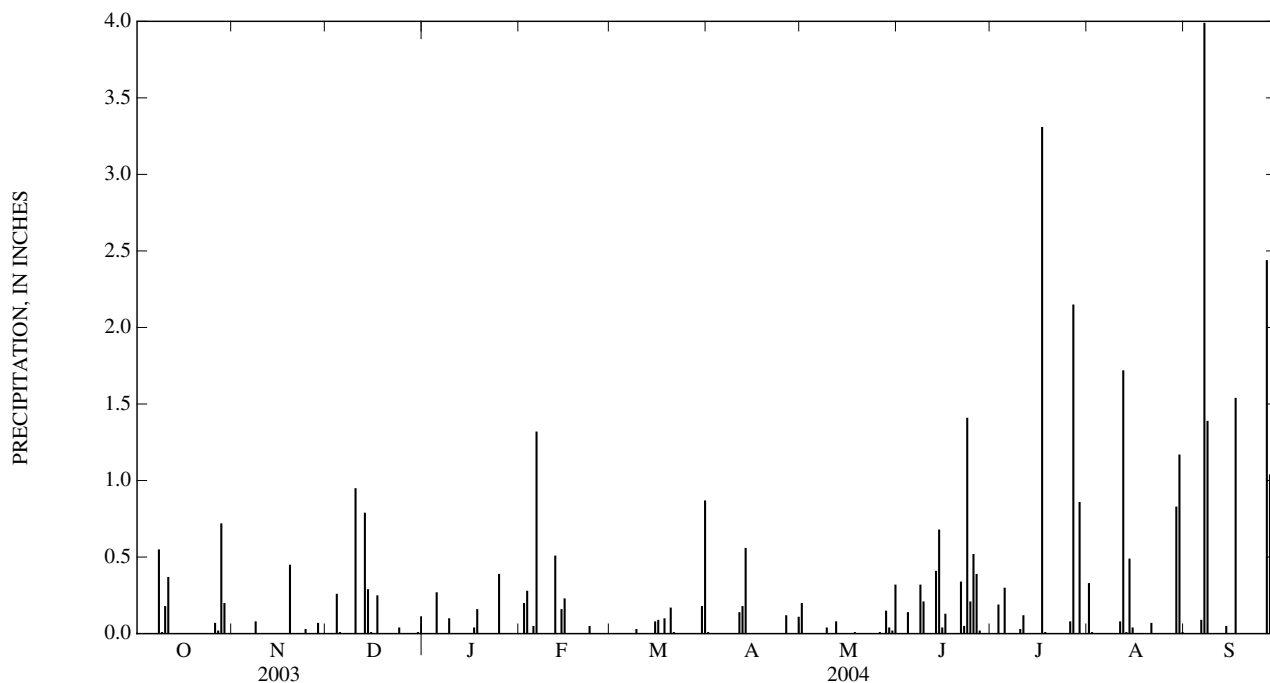
PERIOD OF RECORD.--February 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.00	0.00	0.33	0.00
2	0.00	0.00	0.00	0.00	0.20	0.00	0.00	---	0.00	0.00	0.01	0.00
3	0.00	0.00	0.00	0.00	0.28	0.00	0.00	---	0.00	0.19	0.00	0.00
4	0.00	0.00	0.26	0.00	0.00	0.00	0.00	---	0.14	0.00	0.00	0.00
5	0.00	0.00	0.01	0.27	0.05	0.00	0.00	0.00	0.00	0.30	0.00	0.00
6	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.09
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.99
8	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	1.39
9	0.01	0.00	0.00	0.10	0.00	0.03	0.00	0.04	0.21	0.00	0.00	0.00
10	0.18	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
11	0.37	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.12	0.08	0.00
12	0.00	0.00	0.00	0.00	0.51	0.00	0.18	0.08	0.00	0.00	1.72	0.00
13	0.00	0.00	0.79	0.00	0.00	0.00	0.56	0.00	0.41	0.00	0.01	0.00
14	0.00	0.00	0.29	0.00	0.16	0.00	0.00	0.00	0.68	0.00	0.49	0.05
15	0.00	0.00	0.01	0.00	0.23	0.08	0.00	0.00	0.04	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.13	0.00	0.00	0.00
17	0.00	0.00	0.25	0.04	0.00	0.00	0.00	0.00	0.00	3.31	0.00	1.54
18	0.00	0.00	0.00	0.16	0.00	0.10	0.00	0.01	0.00	0.01	0.00	0.00
19	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.34	0.00	0.07	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	1.41	0.00	0.00	0.00
24	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00
25	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00
26	0.07	0.00	0.00	0.00	---	0.00	0.12	0.01	0.39	0.08	0.00	0.00
27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	2.15	0.00	2.44
28	0.72	0.07	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	1.04
29	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.86	0.83	0.00
30	0.00	0.00	0.01	0.00	---	0.18	0.11	0.02	0.00	0.00	1.17	0.00
31	0.00	---	0.00	0.00	---	0.87	---	0.32	---	0.00	0.01	---
TOTAL	2.12	0.63	2.61	0.96	---	1.53	1.12	---	4.87	7.05	4.76	10.54



350646080432545 CRN69

LOCATION.--Lat 35°06'46", long 80°43'24", Mecklenburg County, Hydrologic Unit 03050103, Matthews Elementary School, McDowell Avenue, Matthews, NC.

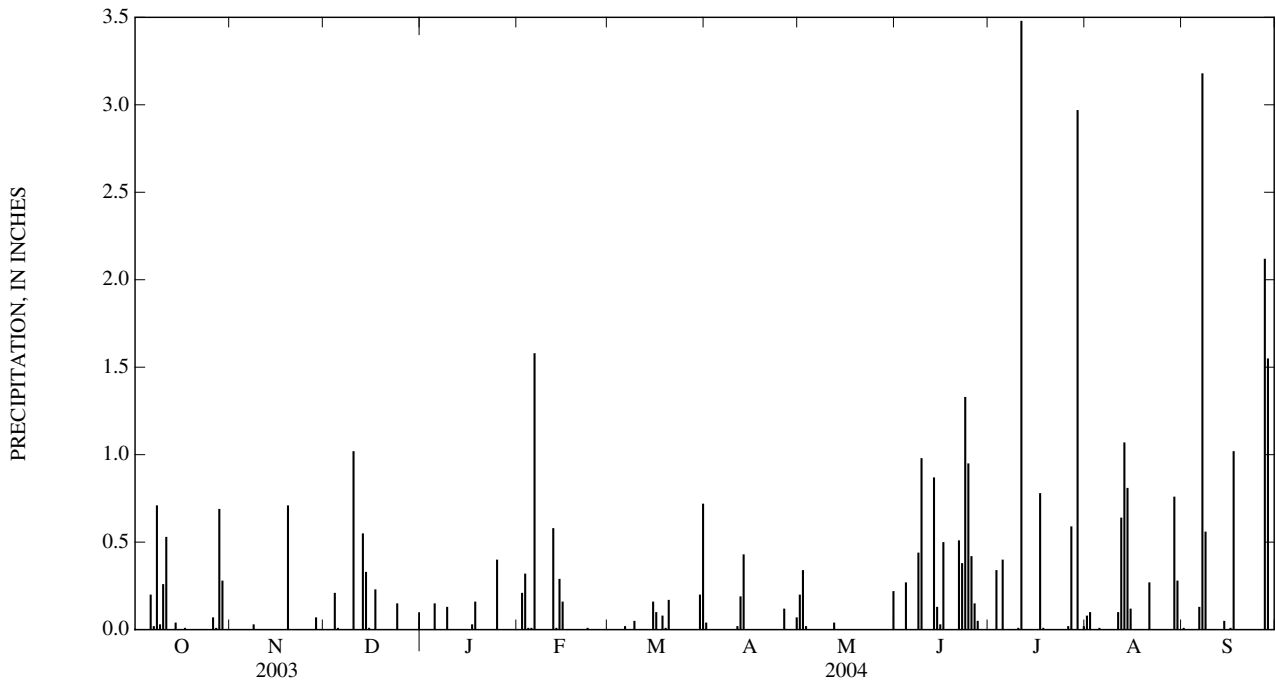
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.20	0.00	0.00	0.08	0.01
2	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.34	0.00	0.00	0.10	0.00
3	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.02	0.00	0.34	0.00	0.00
4	0.00	0.00	0.21	0.00	0.01	0.00	0.00	0.00	0.27	0.00	0.00	0.00
5	0.00	0.00	0.01	0.15	0.01	0.00	0.00	0.00	0.00	0.40	0.01	0.00
6	0.20	0.00	0.00	0.00	1.58	0.02	0.00	0.00	0.00	0.00	0.00	0.13
7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.18
8	0.71	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.56
9	0.03	0.00	0.00	0.13	0.00	0.05	0.00	0.00	0.98	0.00	0.00	0.00
10	0.26	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
11	0.53	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	3.48	0.10	0.00
12	0.00	0.00	0.00	0.00	0.58	0.00	0.19	0.04	0.00	0.00	0.64	0.00
13	0.00	0.00	0.55	0.00	0.01	0.00	0.43	0.00	0.87	0.00	1.07	0.00
14	0.04	0.00	0.33	0.00	0.29	0.00	0.00	0.00	0.13	0.00	0.81	0.05
15	0.00	0.00	0.01	0.00	0.16	0.16	0.00	0.00	0.03	0.00	0.12	0.00
16	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.50	0.00	0.00	0.01
17	0.01	0.00	0.23	0.03	0.00	0.00	0.00	0.00	0.00	0.78	0.00	1.02
18	0.00	0.00	0.00	0.16	0.00	0.08	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	0.71	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.27	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.33	0.00	0.00	0.00
24	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00
25	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00
26	0.07	0.00	0.00	0.00	---	0.00	0.12	0.00	0.15	0.02	0.00	0.00
27	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.59	0.00	2.12
28	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55
29	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97	0.76	0.00
30	0.00	0.00	0.00	0.00	---	0.20	0.07	0.00	0.00	0.00	0.28	0.00
31	0.00	---	0.00	0.00	---	0.72	---	0.22	---	0.02	0.00	---
TOTAL	2.85	0.81	2.51	0.87	---	1.51	0.87	0.82	7.01	8.62	4.24	8.63



350630080455845 CRN70

LOCATION.--Lat 35°06'42", long 80°45'50", Mecklenburg County, Hydrologic Unit 03050103, Providence High School, Pineville-Matthews Road, Charlotte, NC.

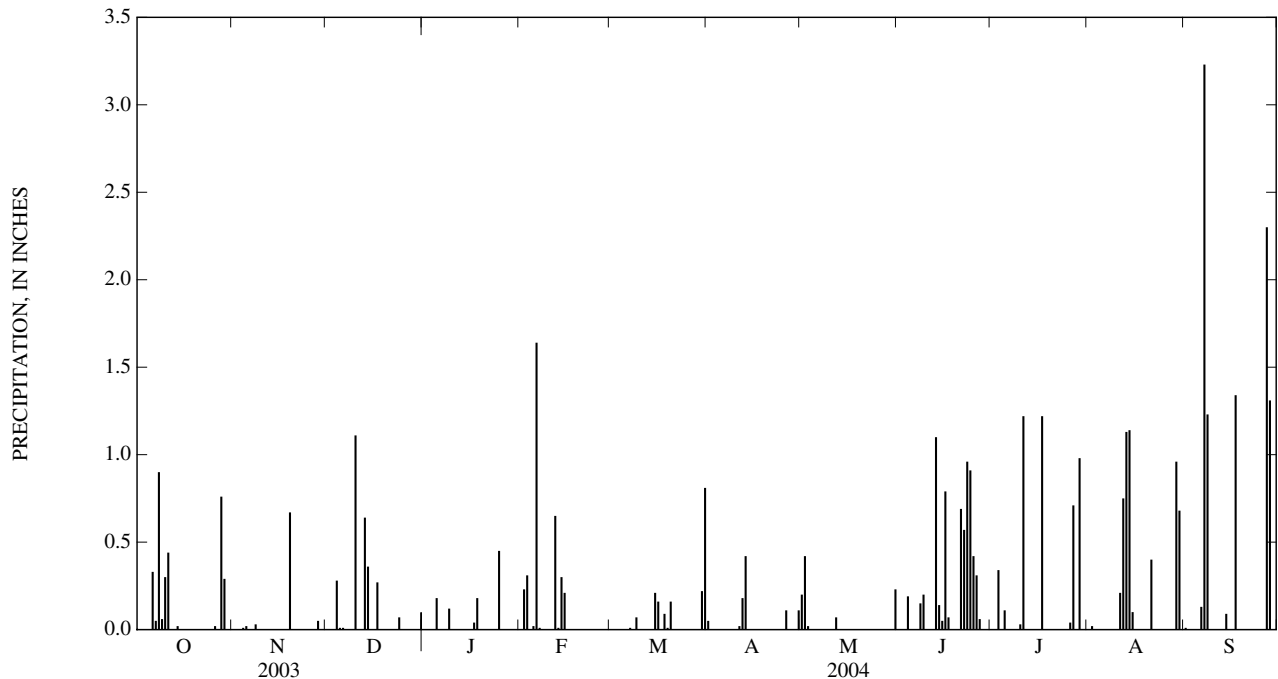
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during February 2004 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.20	0.00	0.00	0.00	0.01
2	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.42	0.00	0.00	0.02	0.00
3	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.02	0.00	0.34	0.00	0.00
4	0.00	0.01	0.28	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00
5	0.00	0.02	0.01	0.18	0.02	0.00	0.00	0.00	0.00	0.11	0.00	0.00
6	0.33	0.00	0.01	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.13
7	0.05	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	3.23
8	0.90	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	1.23
9	0.06	0.00	0.00	0.12	0.00	0.07	0.00	0.00	0.20	0.00	0.00	0.00
10	0.30	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
11	0.44	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.22	0.21	0.00
12	0.00	0.00	0.00	0.00	0.65	0.00	0.18	0.07	0.00	0.00	0.75	0.00
13	0.00	0.00	0.64	0.00	0.01	0.00	0.42	0.00	1.10	0.00	1.13	0.00
14	0.02	0.00	0.36	0.00	0.30	0.00	0.00	0.00	0.14	0.00	1.14	0.09
15	0.00	0.00	0.00	0.00	0.21	0.21	0.00	0.00	0.05	0.00	0.10	0.00
16	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.79	0.00	0.00	0.00
17	0.00	0.00	0.27	0.04	0.00	0.00	0.00	0.00	0.07	1.22	0.00	1.34
18	0.00	0.00	0.00	0.18	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.67	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.40	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00
24	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.00	0.00
25	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00
26	0.02	0.00	0.00	0.00	---	0.00	0.11	0.00	0.31	0.04	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.71	0.00	2.30
28	0.76	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31
29	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.96	0.00
30	0.00	0.00	0.00	0.00	---	0.22	0.11	0.00	0.00	0.00	0.68	0.00
31	0.00	---	0.00	0.00	---	0.81	---	0.23	---	0.00	0.00	---
TOTAL	3.17	0.78	2.75	0.97	---	1.74	0.89	0.94	6.61	4.65	5.39	9.64



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 mi².

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 mi².

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 ft³ and Townes Reservoir is 60,000,000 ft³. Filling was started in Talbott Reservoir Feb. 13, 1939, and in Townes Reservoir several months earlier. Records furnished by city of Danville, Virginia. (See station 02068500.)

02077280 HYCO LAKE

LOCATION.--Lat 36°30'42", long 79°02'50", Person County, Hydrologic Unit 03010104, at outlet control structure 0.4 mi northwest of dam on Hyco River, 1.1 mi southwest of McGehees Mill, and 8 mi northwest of Roxboro.

DRAINAGE AREA.--189 mi².

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 ft³. Lake cannot be drawn below -0.03 ft (bottom of gated flume).

02079964 LAKE GASTON

LOCATION.--Lat 36°30'04", long 77°48'43", Halifax County, Hydrologic Unit 03010106, at Gaston Dam on Roanoke River, 0.2 mi upstream from Black Gut Creek, and 2.7 mi northwest of Thelma.

DRAINAGE AREA.--8,310 mi².

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 ft³. Usable capacity at top of spillway gates, 20,127,000,000 ft³, is between elevations 165 and 203 ft. Capacity reserved for flood control, 2,788,000 ft³, is between elevations 200 and 203 ft. Storage for power generation, 10,673,000,000 ft³, is between elevations 185 and 200 ft.

COOPERATION.--Records furnished by Virginia Electric and Power Co. (See station 02080500.)

02080100 ROANOKE RAPIDS LAKE

LOCATION.--Lat 36°28'44", long 77°40'23", Halifax County, Hydrologic Unit 03010107, at Roanoke Rapids Dam on Roanoke River, 1.5 mi upstream from bridge on State Highway 48, and 2.2 mi north of Roanoke Rapids.

DRAINAGE AREA.--8,371 mi².

PERIOD OF RECORD.--JunPIDS LAKE

LOCATION.--Lat 36 29e 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 ft³ at elevation 132.0 ft (normal high water). Usable capacity is 3,515,290,000 ft³ at 132.75 ft (top of gates).

COOPERATION.--Records furnished by Virginia Electric and Power Co. (See station 02080500.)

02087182 FALLS LAKE

LOCATION.--Lat 35°56'24", long 78°34'51", Wake County, Hydrologic Unit 03020201, above Falls Dam on Neuse River at Falls, 10 mi north of Raleigh, and 235 mi upstream from mouth.

DRAINAGE AREA.--771 mi².

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 ft³ at elevation of 250.1 ft.

COOPERATION.--Records furnished by Corps of Engineers. (See station 02087183.)

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

02098197 B. EVERETT JORDAN LAKE

LOCATION.--Lat 35°39'16", long 79°04'06", Chatham County, Hydrologic Unit 03030002, at B. Everett Jordan Dam on Haw River, 0.3 mi downstream of mouth of New Hope River, 2.5 mi north of Moncure, 4.2 mi upstream from mouth of Haw River, and 202.2 mi upstream from mouth of Cape Fear River.

DRAINAGE AREA.--1,689 mi².

PERIOD OF RECORD.--December 1972 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, water supply, low-flow augmentation, and recreation. Some storage was affected during construction and then operated temporarily as a "dry reservoir" January 1975 to August 1981. Reservoir began filling September 1981 and reached normal pool elevation, 216 ft, Feb. 4, 1982. Total capacity is 32,825,074,000 ft³ at 240.0 ft, of which 23,454,011,000 ft³ is controlled flood storage. (See station 02098198.)

02111391 W. KERR SCOTT RESERVOIR

LOCATION.--Lat 36°08'01", long 81°13'36", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--350 mi², approximately.

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1075.0 ft is 6,664,680,000 ft³ of which 4,878,720,000 ft³ is controlled flood storage.

COOPERATION.--Records furnished by Corps of Engineers. (See station 02129000.)

02122400 HIGH ROCK LAKE

LOCATION.--Lat 35°36'02", long 80°14'05", Davidson County, Hydrologic Unit 03040103, at High Rock Dam on Yadkin River, 2 mi upstream from Lick Creek, 0.8 mi northwest of High Rock, and 256 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--3,970 mi², approximately.

PERIOD OF RECORD.--November 1927 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Nov. 7, 1927. Total capacity is 11,090,000,000 ft³. Usable capacity, 10,230,000,000 ft³, is between 625 and 655 ft gage datum (top of gates).

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02122699 TUCKERTOWN RESERVOIR

LOCATION.--Lat 35°29'09", long 80°10'32", Stanly County, Hydrologic Unit 03040103, at Tuckertown Dam on Yadkin River, 2.5 mi upstream from Garr Creek, 3.8 mi northeast of New London, and 250 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--4,100 mi², approximately.

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 ft³. Usable capacity, 293,800,000 ft³, is between 593 and 596 ft gage datum.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02122844 BADIN LAKE

LOCATION.--Lat 35°25'10", long 80°05'34", Stanly County, Hydrologic Unit 03040103, at Badin Dam on Yadkin River, 2.5 mi upstream from Falls Dam, 1.5 mi northeast of Badin, and 242 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--4,150 mi², approximately.

PERIOD OF RECORD.--December 1917 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, generally known as Narrows Reservoir, used for hydroelectric power development, was first put in operation July 12, 1917. Total capacity is 10,497,960,000 ft³. Usable capacity, 5,616,584,000 ft³, is between 510.00 and 541.10 ft.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02123736 LAKE TILLERY

LOCATION.--Lat 35°12'24", long 80°03'57", Stanly County, Hydrologic Unit 03040104, at Norwood Dam on Pee Dee River, 700 ft upstream from Norfolk Southern Railroad bridge, 5 mi upstream from Rocky River, 3.5 mi southeast of Norwood, and 224 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--4,640 mi², approximately.

PERIOD OF RECORD.--February 1928 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.
GAGE.--Water-stage recorder and float-tape gage at dam. Datum of gage is 38.67 ft above sea level (levels by Carolina Power and Light Co.).
REMARKS.--Lake, used for hydroelectric power development, was first put in operation during January 1928. Total capacity is 7,274,520,000 ft³. Usable capacity, 5,927,040,000 ft³, is between elevations 200.5 and 239.5 ft gage datum (top of gates).
COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

02128800 BLEWETT FALLS LAKE

LOCATION.--Lat 34°58'58", long 79°52'40", Richmond County, Hydrologic Unit 03040104, at Blewett Falls Dam on Pee Dee River, 1.2 mi upstream from Cartledge Creek, 6.5 mi northwest of Rockingham, and 195 mi upstream from mouth in Winyah Bay.
DRAINAGE AREA.--6,820 mi², approximately.
PERIOD OF RECORD.--December 1929 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.
GAGE.--Self-synchronous motor, dial indicator, and staff gage at dam. Datum of gage is 39.08 ft above sea level (levels by Carolina Power and Light Co.).
REMARKS.--Lake, used for hydroelectric power development, was first put in use during 1911. Total capacity is 4,225,320,000 ft³. Usable capacity, 1,850,000,000 ft³, is between 120.0 and 139.0 ft gage datum (top of flashboards).
COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

02138519 LAKE JAMES

LOCATION.--Lat 35°44'36", long 81°50'22", Burke County, Hydrologic Unit 03050101, at Linville Dam at intake tower on Catawba River, 2.1 mi northeast of Bridgewater, and 279 mi upstream from mouth of Wateree River.
DRAINAGE AREA.--383 mi², approximately.
PERIOD OF RECORD.--March 1920 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.
GAGE.--Float gage with self-synchronous motor to indicator in powerhouse. Staff gage at Catawba River Dam is also read when lake elevation drops below 1,160 ft, 60 ft gage datum, and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft above sea level (levels by Duke Power Co.).
REMARKS.--Lake, generally known as Bridgewater Reservoir, used for hydroelectric power development, was first put in operation May 5, 1919. The total capacity is 12,581,800,000 ft³ at 100.0 ft gage datum (crest of spillway). Usable capacity, 7,943,700,000 ft³, is between 65.0 and 100.0 ft gage datum.
COOPERATION.--Records furnished by Duke Power Co.

02141490 RHODHISS LAKE

LOCATION.--Lat 35°46'23", long 81°26'29", Caldwell County, Hydrologic Unit 03050101, at Rhodhiss Dam on Catawba River, 0.8 mi west of Rhodhiss, 1.8 mi south of Granite Falls, and 243 mi upstream from mouth of Wateree River.
DRAINAGE AREA.--1,090 mi², approximately.
PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.
GAGE.--Float gage, indicator, and reference point at dam. Datum of gage is 895.1 ft above sea level (levels by Duke Power Co.).
REMARKS.--Lake, used for hydroelectric power development, was first put in operation Feb. 18, 1925. Total capacity is 3,188,592,000 ft³. Usable capacity, 1,717,000,000 ft³, is between elevations 85.0 and 100.0 ft gage datum (crest of spillway).
COOPERATION.--Records furnished by Duke Power Co.

02141961 LAKE HICKORY

LOCATION.--Lat 35°49'20", long 81°11'36", Alexander County, Hydrologic Unit 03050101, at Oxford Dam on Catawba River, 2 mi upstream from Lower Little River, 7 mi south of Taylorsville, and 226 mi upstream from mouth of Wateree River.
DRAINAGE AREA.--1,310 mi², approximately.
PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.
GAGE.--Float gage and indicator at dam. Datum of gage is 835.0 ft above sea level (levels by Duke Power Co.).
REMARKS.--Lake, generally known as Oxford Reservoir, used for hydroelectric power development, was first put in operation Apr. 5, 1928. Total capacity is 5,552,985,000 ft³. The usable capacity from Sept. 1, 1935, to Sept. 30, 1957, was considered to be 2,277,970,200 ft³ between 85.0 and 100.0 ft gage datum (top of flood gates). Usable capacity from Apr. 30, 1928, to Aug. 31, 1935, Oct. 1, 1957, to Sept. 30, 1964, was considered to be 3,378,400,000 ft³ between 75.0 and 100.0 ft gage datum (top of flood gates); and from Oct. 1, 1964, to present, is considered to be 2,277,800,000 ft³ between 85.0 and 100.0 ft gage datum (top of flood gates).
COOPERATION.--Records furnished by Duke Power Co.

02142441 LOOKOUT SHOALS LAKE

LOCATION.--Lat 35°45'26", long 81°05'26", Catawba County, Hydrologic Unit 03050101, at Lookout Shoals Dam on Catawba River, 4 mi upstream from bridge on U.S. Highways 64 and 70, 4.2 mi north of Catawba, and 216 mi upstream from mouth of Wateree River.
DRAINAGE AREA.--1,450 mi², approximately.
PERIOD OF RECORD.--December 1915 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and staff gage at dam. Datum of gage is 738.1 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 2, 1915. Total capacity was originally 1,355,190,000 ft³. Capacity has been reduced by silting. The usable capacity prior to October 1957 was considered to be 473,980,000 ft³ and from October 1957 to Sept. 30, 1964, was considered to be 388,300,000 ft³ between elevations 90.0 and 100.0 ft gage datum (crest of spillway). Usable capacity from Oct. 1, 1964, to present is considered to be 208,200,000 ft³ between 95.0 and 100.0 ft gage datum (crest of spillway). Flood of July 16, 1916, washed out an earth dike.

COOPERATION.--Records furnished by Duke Power Co.

02142647 LAKE NORMAN

LOCATION.--Lat 35°26'05", long 80°57'30", Mecklenburg County, Hydrologic Unit 03050101, at Cowans Ford Dam on Catawba River, 0.8 mi upstream from Derr Creek, 7.8 mi southwest of Davidson, and 182 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,790 mi², approximately.

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Float gage with transmitter to dial meter in control room. Datum of gage is 660 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, began filling in March 1962. Total capacity is 47,586,200,000 ft³. Usable capacity, 26,910,400,000 ft³, is between 75.0 and 100.0 ft gage datum (top of flood gates).

COOPERATION.--Records furnished by Duke Power Co.

02142676 MOUNTAIN ISLAND LAKE

LOCATION.--Lat 35°20'03", long 80°59'12", Gaston County, Hydrologic Unit 03050101, at Mountain Island Dam on Catawba River, 1.5 mi downstream from bridge on State Highway 16, 3 mi northeast of Mount Holly, and 167 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,860 mi², approximately.

PERIOD OF RECORD.--December 1923 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and stage gage at dam. Datum of gage is 547.5 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 16, 1923. Total capacity is 2,495,988,000 ft³. Usable capacity prior to October 1964 was considered to be 1,132,000,000 ft³ between 90.0 and 100.0 ft gage datum (crest of spillway) and from October 1964 to present, 845,000,000 ft³, is considered to be between 93.0 and 100.0 ft gage datum (crest of spillway).

COOPERATION.--Records furnished by Duke Power Co.

OTHER RESERVOIRS

The following smaller reservoirs in the South Atlantic Slope basin are described below. Records of contents are not published herein.

02077229 LAKE ROXBORO

LOCATION.--Lat 36°20'53", long 79°09'00", Caswell County, Hydrologic Unit 03010104, on South Hyco Creek near Roseville.

DRAINAGE AREA.--23.2 mi².

REMARKS.--Lake is part of Roxboro's municipal water supply. Total capacity is 380,991,000 ft³. 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 mi².

REMARKS.--Lake is used as a cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is approximately 522,720,000 ft³ 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 mi².

REMARKS.--Lake is used as cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is 3,831,000,000 ft³ with a surface area of 2,800 acres at a normal elevation of 434 ft above sea level. Dam was completed and filling began Aug. 1, 1980. Water in reservoir first reached normal water-level elevation of 434 ft on April 16, 1983. (See station 02077660.)

02086490 LAKE MICHIE

LOCATION.--Lat 36°09'02", long 79°49'49", Durham County, Hydrologic Unit 03020201, at Durham municipal dam on Flat River, 3 mi southeast of Bahama, and 5 mi upstream from confluence with Eno River.

DRAINAGE AREA.--167 mi², 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 ft³, is between 300.0 and 341.0 ft gage datum (crest of spillway). (See station 02087000.)

02087339 LAKE JOHNSON

LOCATION.--Lat 35°45'44", long 78°42'17", Wake County, Hydrologic Unit 03020201, on Walnut Creek near Raleigh.

DRAINAGE AREA.--7.10 mi².

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 98,900,000 ft³. 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 mi².

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 13,400,000 ft³. Dam was completed in 1914 and raised to its present elevation in 1919. (See station 02087500.)

02087588 LAKE WHEELER

LOCATION.--Lat 35°41'39", long 78°41'39", Wake County, Hydrologic Unit 03020201, on Swift Creek near Raleigh.

DRAINAGE AREA.--35.8 mi².

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 267,400,000 ft³. Dam was completed and filling began in 1956. (See station 02087500.)

02087701 LAKE BENSON

LOCATION.--Lat 35°39'44", long 78°36'42", Wake County, Hydrologic Unit 03020201, on Swift Creek near Garner.

DRAINAGE AREA.--66.3 mi², approximately.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 133,700,000 ft³. 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 mi².

REMARKS.--Lake is part of Wilson's municipal water supply. Total capacity is approximately 909,000,000 ft³. Original dam was completed Nov. 12, 1976, and reservoir initially filled Dec. 1, 1976 (previous capacity 133,680,000 ft³). (See station 02090380.) Construction on new dam downstream of original structure was completed in July 1999, and reservoir was filled by mid-September in response to heavy tropical rains (Hurricane Floyd).

02093981 LAKE HIGGINS

LOCATION.--Lat 36°10'11", long 79°52'49", Guilford County, Hydrologic Unit 03030002, on Brush Creek near Greensboro.

DRAINAGE AREA.--12 mi², approximately.

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 107,000,000 ft³. Reservoir was first filled Mar. 1, 1957. (See station 02094500.)

02094117 LAKE BRANDT

LOCATION.--Lat 36°10'21", long 79°50'20", Guilford County, Hydrologic Unit 03030002, on Reedy Fork and Horsepen Creek near Greensboro.

DRAINAGE AREA.--68.4 mi².

REMARKS.--Total capacity is 294,000,000 ft³. Dam was completed February 1923 and raised to present level 1959-60.

Reservoir first filled to present level on Oct. 8, 1960. Lake is part of Greensboro's municipal water supply. (See station 02094500.)

02094305 LAKE TOWNSEND

LOCATION.--Lat 36°11'20", long 79°43'55", Guilford County, Hydrologic Unit 03030002, on Reedy Fork near Greensboro.

DRAINAGE AREA.--105 mi².

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 869,000,000 ft³. Dam was completed Oct. 18, 1968, and reservoir was first filled on Aug. 17, 1969. (See station 02094500.)

02096003 LAKE BURLINGTON

LOCATION.--Lat 36°10'38", long 79°24'43", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--46.6 mi², approximately.

REMARKS.--Lake is part of Burlington's municipal water supply. Prior to October 1971 published as "Stony Creek Reservoir." Total capacity is 427,800,000 ft³. Dam completed August 1960 and reservoir first filled Jan. 28, 1961. (See station 02096500.)

02096432 STONY CREEK RESERVOIR

LOCATION.--Lat 36°07'40", long 79°24'23", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--104mi².

REMARKS.--Lake is part of Burlington's water supply. Prior to October 1971 published as "Lake Burlington." Total capacity is 64,900,000 ft³. Dam completed and reservoir filled in 1928. (See station 02096500.)

02098495 OAK HOLLOW RESERVOIR

LOCATION.--Lat 36°00'42", long 79°59'11", Guilford County, Hydrologic Unit 03030003, on West Fork Deep River and 1.8 mi southwest of Deep River.

DRAINAGE AREA.--32 mi², approximately.

REMARKS.--Lake is part of High Point's municipal water supply. Total capacity is 468,000,000 ft³. Dead storage (nonwithdrawal) is minor. Total surface area, about 725 acres. Dam completed and filling began in May 1970. Reservoir first filled Dec. 24, 1970. (See station 02099500.)

02099096 HIGH POINT MUNICIPAL LAKE

LOCATION.--Lat 35°59'43", long 79°56'42", Guilford County, Hydrologic Unit 03030003, on Deep River near High Point, High Point's municipal water supply.

DRAINAGE AREA.--61.4 mi².

REMARKS.--Total capacity is 220,588,000 ft³. Dam completed in 1926 and reservoir first filled in 1927. (See station 02099500)

02102178 BUCKHORN RESERVOIR

LOCATION.--Lat 35°32'22", long 78°59'27", Chatham County, Hydrologic Unit 03030004, on Cape Fear River near Corinth.

DRAINAGE AREA.--3,230 mi², approximately.

REMARKS.-- Usable capacity is 69,700,000 ft³. Completed and filled in 1908. Hydroelectric power operation stopped Dec. 31, 1962.

02102190 SHEARON HARRIS MAIN RESERVOIR

LOCATION.--Lat 35°34'00", long 78°57'55", Chatham County, Hydrologic Unit 03030004, on Buckhorn Creek near Corinth.

DRAINAGE AREA.--71 mi².

REMARKS.--Lake is a cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is 3,136,320,000 ft³ with a surface area of 4,150 acres at a normal elevation of 220 ft above sea level. Dam was completed Dec. 23, 1981, and filling began Dec. 1, 1980. (See station 02102192.)

02121461 LEXINGTON-THOMASVILLE RESERVOIR

LOCATION.--Lat 35°51'54", long 80°11'41", Davidson County, Hydrologic Unit 03050103, on Abbotts Creek near Lexington.

DRAINAGE AREA.--70.3 mi².

REMARKS.--Total capacity is 284,100,000 ft³ of which 281,400,000 ft³ is usable. Dam completed Aug. 8, 1957, and reservoir first filled Nov. 23, 1957. Lexington and Thomasville's municipal water supply.

02184122 LAKE TOXAWAY

LOCATION.--Lat 35°07'27", long 82°55'56", Transylvania County, Hydrologic Unit 03060101, on Toxaway River at town of Lake Toxaway.

DRAINAGE AREA.--7.79 mi².

REMARKS.--A recreation lake. Total surface area is about 640 acres. Lake reached spillway elevation September 1961.

LAKE AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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 Talbot & Townes Reservoir				02077280 Hycy Lake		
Sept. 30	--	317.90	--	10.53	3,375	--
Oct. 31	--	319.50	2	10.53	3,375	0
Nov. 30	--	327.90	8	10.54	3,376	1
Dec. 31	--	327.90	0	10.54	3,376	0
CAL YR 2003		--	-21		--	-18
Jan. 31	--	219.50	-108	10.52	3,373	-3
Feb. 28	--	177.50	-42	10.57	3,381	8
Mar. 31	--	177.00	-1	10.48	3,367	-14
Apr. 30	--	184.60	8	10.48	3,367	0
May 31	--	164.10	-21	10.45	3,363	-4
June 30	--	166.80	3	10.29	3,338	-25
July 31	--	161.10	-6	10.16	3,318	-20
Aug. 31	--	172.20	11	11.01	3,450	132
Sept. 30	--	389.00	217	10.52	3,373	-77
WTR YR 2004		--	71		--	-2
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	199.33	18,992	--	129.30	2,826	--
Oct. 31	199.72	19,358	366	131.30	3,216	390
Nov. 30	199.68	19,324	-34	129.00	2,790	-426
Dec. 31	199.56	19,219	-105	131.00	3,162	372
CAL YR 2003		--	-166		--	172
Jan. 31	199.67	19,315	96	130.90	3,142	-20
Feb. 28	199.44	19,114	-201	129.30	2,844	-298
Mar. 31	199.38	19,062	-52	128.00	2,629	-215
Apr. 30	199.88	19,497	435	130.30	3,026	397
May 31	200.03	19,628	131	130.50	3,062	36
June 30	199.36	19,044	-584	128.70	2,744	-318
July 31	199.70	19,341	297	129.30	2,844	100
Aug. 31	200.05	19,646	350	131.90	3,338	494
Sept. 30	199.91	19,523	-123	131.80	3,317	-21
WTR YR 2004		--	531		--	491

SOUTH ATLANTIC SLOPE BASIN

LAKE AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02087182 Falls Lake						
Sept. 30	251.78	5,637	--			
Oct. 31	216.44	9,647	44			
Nov. 30	216.22	9,509	-138			
Dec. 31	216.30	9,559	50			
CAL YR 2003		--	-497			
Oct. 31	251.24	5,345	-292			
Nov. 30	251.42	5,443	97			
Dec. 31	251.72	5,605	162			
CAL YR 2003		--	-141			
Jan. 31	251.62	5,551	-54			
Feb. 28	251.76	5,626	76			
Mar. 31	251.97	5,740	114			
Apr. 30	251.61	5,545	-195			
May 31	251.77	5,632	87			
June 30	251.07	5,254	-378			
July 31	250.97	5,200	-53			
Aug. 31	253.18	6,436	1,235			
Sept. 30	251.62	5,551	-885			
WTR YR 2004		--	-86			
Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02098197 B. Everett Jordan Lake				02111391 W. Kerr Scott Reservoir		
Sept. 30	216.37	9,603	--	1,029.92	1,783	--
Oct. 31	216.44	9,647	44	1,030.13	1,797	14
Nov. 30	216.22	9,509	-138	1,030.16	1,800	3
Dec. 31	216.30	9,559	50	1,030.31	1,812	13
CAL YR 2003		--	-497		--	9
Jan. 31	216.35	9,591	31	1,030.18	1,801	-11
Feb. 28	216.54	9,710	119	1,030.16	1,800	-2
Mar. 31	216.16	9,472	-238	1,030.33	1,814	15
Apr. 30	216.63	9,767	295	1,030.06	1,791	-23
May 31	216.38	9,610	-157	1,030.00	1,786	-5
June 30	216.71	9,817	207	1,030.04	1,789	3
July 31	216.95	9,967	151	1,030.15	1,799	9
Aug. 31	217.90	10,578	610	1,030.16	1,800	1
Sept. 30	218.01	10,649	71	1,030.83	1,857	57
WTR YR 2004		--	1,046		--	74

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02122400 High Rock Lake						
Sept. 30	652.40	9,456	--	594.45	1,695	--
Oct. 31	649.56	7,859	-1,597	594.84	1,732	37
Nov. 30	651.07	8,683	824	595.42	1,792	60
Dec. 31	648.18	7,151	-1,532	595.02	1,751	-41
CAL YR 2003		--	-2,426		--	53
02122699 Tuckertown Reservoir						
Jan. 31	638.04	3,222	-3,929	594.86	1,734	-17
Feb. 28	648.50	7,312	4,090	595.72	1,823	89
Mar. 31	649.55	7,854	542	595.32	1,782	-41
Apr. 30	652.40	9,456	1,602	594.70	1,718	-64
May 31	652.56	9,553	97	595.51	1,802	84
June 30	654.18	10,541	988	595.01	1,750	-52
July 31	653.48	10,110	-431	594.88	1,736	-14
Aug. 31	650.84	8,554	-1,556	595.22	1,531	-205
Sept. 30	654.69	10,872	2,318	595.50	1,801	270
WTR YR 2004		--	1,416		--	106
Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02122844 Badin Lake						
Sept. 30	540.42	10,339	--	277.20	5,714	--
Oct. 31	540.38	10,329	-10	277.20	5,714	0
Nov. 30	535.06	9,129	-1,200	277.70	5,822	108
Dec. 31	540.17	10,280	1,151	277.50	5,779	-43
CAL YR 2003		--	58		--	216
02123736 Lake Tillery						
Jan. 31	537.92	9,759	-521	277.50	5,779	0
Feb. 28	540.71	10,406	647	278.00	5,888	109
Mar. 31	540.14	10,273	-133	277.20	5,714	-174
Apr. 30	540.84	10,437	164	277.20	5,714	0
May 31	540.02	10,246	-191	277.80	5,844	130
June 30	540.70	10,404	158	278.00	5,888	44
July 31	540.18	10,282	-122	277.70	5,822	-66
Aug. 31	539.94	10,227	-55	277.60	6,020	198
Sept. 30	540.55	10,369	142	277.10	5,693	-327
WTR YR 2004		--	30		--	-21

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
02128800 Blewett Falls Lake						
Sept. 30	172.20	1,252	--	97.2	11,808	--
Oct. 31	173.30	1,362	110	96.2	11,540	-268
Nov. 30	176.70	1,702	340	99.5	12,441	901
Dec. 31	176.70	1,702	0	94.7	11,147	-1,294
CAL YR 2003		--	-110		--	-688
Jan. 31	177.40	1,772	70	93.0	10,713	-434
Feb. 28	174.30	1,462	-310	96.4	11,593	880
Mar. 31	174.30	1,462	0	96.6	11,647	54
Apr. 30	175.80	1,612	150	98.1	12,053	406
May 31	176.50	1,682	70	98.3	12,108	55
June 30	173.90	1,422	-260	98.4	12,135	27
July 31	174.50	1,482	60	97.5	11,889	-246
Aug. 31	174.10	1,442	-40	96.7	11,673	-215
Sept. 30	180.80	2,112	670	99.7	12,497	824
WTR YR 2004		--	860		--	689
02141490 Rhodhiss Lake						
Sept. 30	96.9	1,270	--	97.2	1,791	--
Oct. 31	97.2	1,311	41	97.2	1,791	0
Nov. 30	96.7	1,243	-68	97.2	1,791	0
Dec. 31	95.8	1,124	-119	97.2	1,791	0
CAL YR 2003		--	-26		--	0
Jan. 31	95.5	1,085	-39	95.2	1,462	-330
Feb. 28	95.9	1,137	52	96.8	1,724	263
Mar. 31	96.5	1,216	79	97.4	1,825	101
Apr. 30	96.7	1,243	27	96.6	1,691	-134
May 31	97.3	1,325	82	97.9	1,910	219
June 30	97.3	1,325	0	97.1	1,775	-136
July 31	97.7	1,381	56	97.9	1,910	136
Aug. 31	97.4	1,339	-42	97.0	1,758	-153
Sept. 30	96.9	1,270	-69	97.9	1,910	153
WTR YR 2004		--	0		--	119
02141961 Lake Hickory						

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02142441 Lookout Shoals Lake		02142647 Lake Norman		
Sept. 30	97.3	92	--	97.4	44,010	--
Oct. 31	98.0	121	29	96.9	43,340	-670
Nov. 30	97.8	113	-8	96.8	43,210	-130
Dec. 31	97.9	117	4	96.3	42,550	-660
CAL YR 2003		--	117		--	-2,540
Jan. 31	88.7	0	-117	93.9	39,510	-3,040
Feb. 28	87.3	0	0	96.3	42,550	3,040
Mar. 31	97.7	109	109	96.4	42,680	130
Apr. 30	97.9	117	8	98.0	44,820	2,140
May 31	98.0	121	4	98.1	44,960	140
June 30	97.9	117	-4	99.0	46,190	1,230
July 31	98.2	130	13	98.1	44,960	-1,230
Aug 31	97.1	84	-46	96.8	43,210	-1,750
Sept. 30	99.0	164	80	99.0	46,190	2,980
WTR YR 2004		--	72		--	2,180
		02142676 Mountain Island Lake				
Sept. 30	97.2	475	--			
Oct. 31	97.5	512	37			
Nov. 30	97.7	538	26			
Dec. 31	97.5	512	-26			
CAL YR 2003		--	-38			
Jan. 31	95.0	215	-297			
Feb. 28	96.4	378	163			
Mar. 31	97.2	475	97			
Apr. 30	96.5	390	-85			
May 31	97.4	500	110			
June 30	97.5	512	12			
July 31	97.6	525	13			
Aug 31	96.7	414	-111			
Sept. 30	98.6	692	278			
WTR YR 2004		--	217			

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'36", long 81°24'25", Ashe County, Hydrologic Unit 05050001, on right bank 600 ft upstream from bridge on State Highways 16 and 88, 0.2 mi downstream of Bear Creek, and 4 mi southeast of Jefferson.

DRAINAGE AREA.--205 mi².

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft above NGVD of 1929. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934, to Mar. 25, 1935, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 14,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 15, 1916, reached a stage of 18.0 ft, from floodmarks witnessed by local resident; discharge, 35,200 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	269	492	441	e268	486	514	370	405	304	257	254
2	341	265	461	429	e279	514	441	385	297	327	314	300
3	328	264	436	e420	350	583	409	382	276	371	297	746
4	320	262	447	e430	e302	572	402	359	506	348	233	364
5	320	287	511	e440	e275	555	386	342	655	407	216	287
6	312	532	521	e450	685	571	370	338	384	319	219	262
7	305	576	458	e410	1,430	615	365	325	337	280	213	484
8	300	414	428	e370	730	558	362	312	375	266	198	10,500
9	337	352	419	e365	581	519	357	322	422	252	192	6,450
10	477	324	567	e350	540	504	346	319	391	243	186	1,680
11	424	310	1,320	e330	523	478	345	311	358	253	183	1,050
12	360	303	766	e320	497	460	491	357	346	279	227	805
13	334	304	621	e325	482	438	1,230	333	441	266	317	673
14	328	301	601	e315	479	423	1,230	328	436	239	242	598
15	351	281	567	e298	467	420	730	307	398	227	207	553
16	352	285	534	e294	469	475	588	294	916	214	200	511
17	315	287	623	e290	440	475	524	302	572	213	200	4,440
18	308	293	668	e320	423	428	481	343	414	227	187	4,160
19	304	6,060	554	e340	423	423	451	320	359	241	184	1,670
20	297	4,050	517	e300	447	406	430	297	348	214	173	1,150
21	292	1,180	e486	e282	566	404	418	287	386	205	178	926
22	284	836	e471	e268	637	400	398	280	785	198	182	797
23	277	681	e466	e265	547	381	384	279	484	200	182	711
24	271	622	707	e260	518	377	374	318	398	200	279	651
25	268	590	766	e280	516	373	381	296	378	415	270	608
26	278	514	586	e305	498	368	437	277	553	368	210	573
27	347	480	527	e324	498	364	591	293	450	287	195	558
28	349	567	496	e300	476	362	425	314	378	317	268	2,430
29	307	675	476	e265	487	357	384	303	345	261	340	1,510
30	285	534	487	e260	---	361	370	300	318	256	244	973
31	277	---	484	e255	---	449	---	328	---	245	216	---
TOTAL	10,007	22,698	17,463	10,301	14,833	14,099	14,614	9,921	13,111	8,442	7,009	46,674
MEAN	323	757	563	332	511	455	487	320	437	272	226	1,556
MAX	477	6,060	1,320	450	1,430	615	1,230	385	916	415	340	10,500
MIN	268	262	419	255	268	357	345	277	276	198	173	254
CFSM	1.57	3.69	2.75	1.62	2.50	2.22	2.38	1.56	2.13	1.33	1.10	7.59
IN.	1.82	4.12	3.17	1.87	2.69	2.56	2.65	1.80	2.38	1.53	1.27	8.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

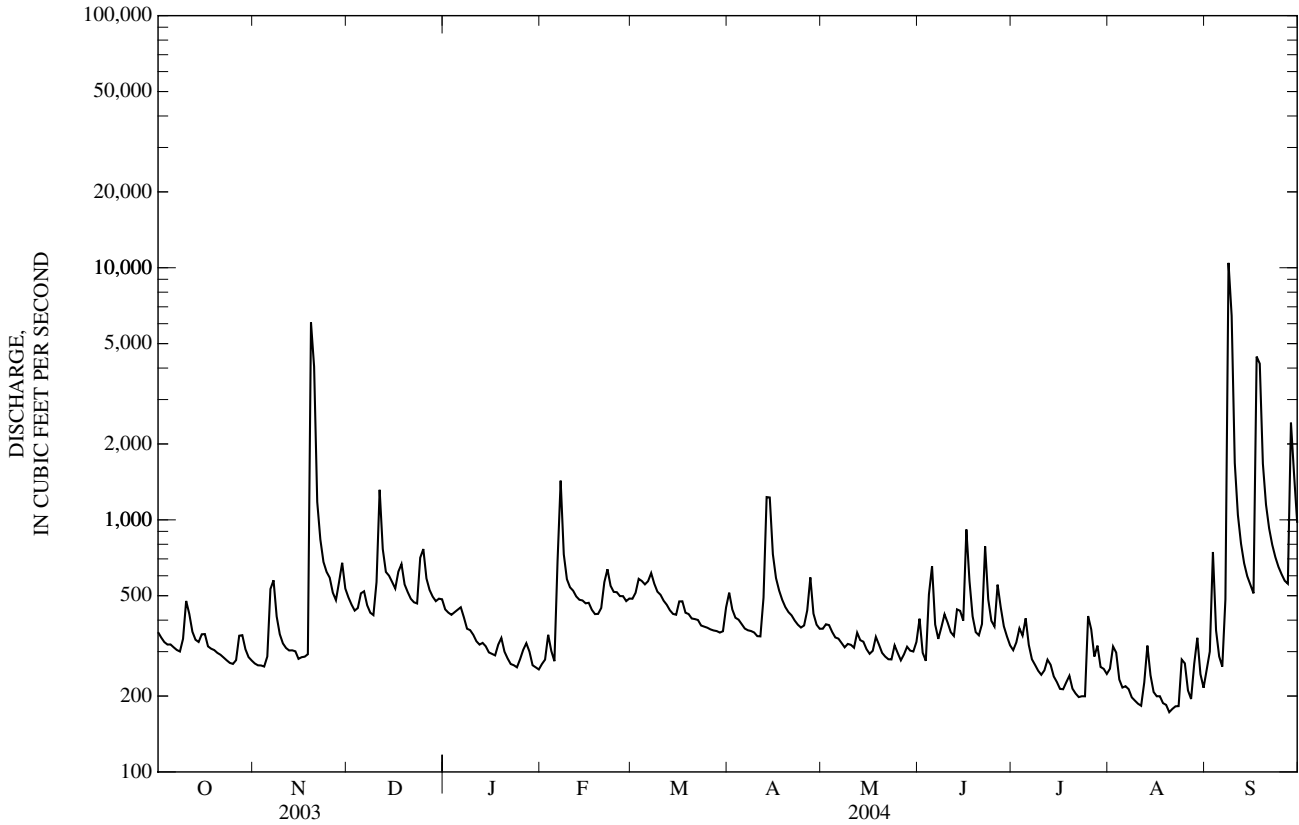
MEAN	352	403	404	466	513	582	561	453	390	332	351	337
MAX	901	1,889	797	1,346	1,173	1,316	1,350	1,052	1,036	904	2,613	1,556
(WY)	(1991)	(1978)	(1958)	(1995)	(1998)	(1979)	(1983)	(1973)	(1992)	(1941)	(1940)	(2004)
MIN	111	124	146	140	188	222	236	220	158	111	93.7	99.5
(WY)	(2001)	(1932)	(1934)	(1940)	(2001)	(1988)	(1986)	(2001)	(1988)	(1930)	(1925)	(1954)

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL TOTAL	210,655		189,172			
ANNUAL MEAN	577		517		428	
HIGHEST ANNUAL MEAN					669	1949
LOWEST ANNUAL MEAN					215	2002
HIGHEST DAILY MEAN	6,060	Nov 19	10,500	Sep 8	27,700	Aug 14, 1940
LOWEST DAILY MEAN	262	Jan 26	173	Aug 20	65	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	270	Jan 21	184	Aug 17	72	Aug 21, 1925
MAXIMUM PEAK FLOW			14,700	Sep 8	52,800*	Aug 14, 1940
MAXIMUM PEAK STAGE			11.73	Sep 8	22.50	Aug 14, 1940
INSTANTANEOUS LOW FLOW			167	Aug 21	52*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	2.82		2.52		2.09	
ANNUAL RUNOFF (INCHES)	38.23		34.33		28.36	
10 PERCENT EXCEEDS	891		659		705	
50 PERCENT EXCEEDS	494		369		342	
90 PERCENT EXCEEDS	298		250		168	

* See REMARKS.

e Estimated.



03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'32", long 82°49'27", Transylvania County, Hydrologic Unit 06010105, on left bank 50 ft upstream from bridge on U.S. Highway 178 at Rosman, 1.0 mi upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 mi².

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43, WDR NC-93-1: 1993(M).

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above NGVD of 1929. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record result of freezeup. Minimum daily discharge occurred several days in Sept. and Oct. 1954. Minimum discharge for current water year also occurred July 23.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0215	8,660	12.60	Sep 17	0345	8,910	12.76

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	174	293	271	189	210	160	159	177	208	290	153
2	186	172	276	264	229	214	152	243	164	188	279	306
3	181	170	263	259	363	213	146	198	160	194	324	194
4	182	171	325	254	271	205	143	174	168	186	232	165
5	179	281	332	282	275	200	140	166	156	167	206	151
6	175	489	303	262	1,390	236	137	159	155	173	192	150
7	174	306	282	247	721	213	136	152	151	169	173	2,170
8	176	251	269	244	470	205	135	146	139	146	164	5,330
9	194	223	261	242	395	201	133	145	149	144	156	1,280
10	194	210	1,070	235	358	198	131	129	142	165	152	748
11	210	202	668	228	329	192	130	124	134	153	151	562
12	197	195	484	226	362	188	168	126	133	195	185	465
13	187	188	431	223	328	183	644	720	145	164	163	403
14	186	182	497	221	309	178	305	475	147	144	148	363
15	184	182	423	219	313	190	232	301	324	133	142	334
16	166	182	389	212	296	192	205	292	292	126	138	543
17	165	182	431	210	279	181	189	352	200	130	136	4,180
18	163	197	379	243	268	175	179	274	172	178	135	1,290
19	161	2,740	360	218	261	172	171	247	157	143	127	849
20	159	707	339	208	254	168	165	254	148	130	127	673
21	158	473	325	204	250	178	161	228	156	122	140	573
22	156	384	319	202	238	166	156	251	312	118	125	504
23	154	337	312	197	233	161	153	263	176	121	127	456
24	154	371	390	195	230	158	150	237	168	132	137	418
25	154	321	328	211	225	157	148	210	197	173	144	385
26	284	296	311	223	225	155	206	196	230	168	129	360
27	322	287	299	223	223	153	177	188	178	561	142	457
28	218	436	288	206	218	151	158	181	176	255	144	1,040
29	196	352	283	200	213	147	153	175	172	291	176	515
30	184	315	312	198	---	161	152	188	187	624	153	434
31	179	---	279	192	---	181	---	206	---	394	156	---
TOTAL	5,770	10,976	11,521	7,019	9,715	5,682	5,415	7,159	5,365	6,195	5,193	25,451
MEAN	186	366	372	226	335	183	180	231	179	200	168	848
MAX	322	2,740	1,070	282	1,390	236	644	720	324	624	324	5,330
MIN	154	170	261	192	189	147	130	124	133	118	125	150
CFSM	2.74	5.39	5.47	3.33	4.93	2.70	2.66	3.40	2.63	2.94	2.47	12.5
IN.	3.16	6.01	6.31	3.85	5.32	3.11	2.97	3.92	2.94	3.39	2.85	13.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2004,® BY WATER YEAR (WY)

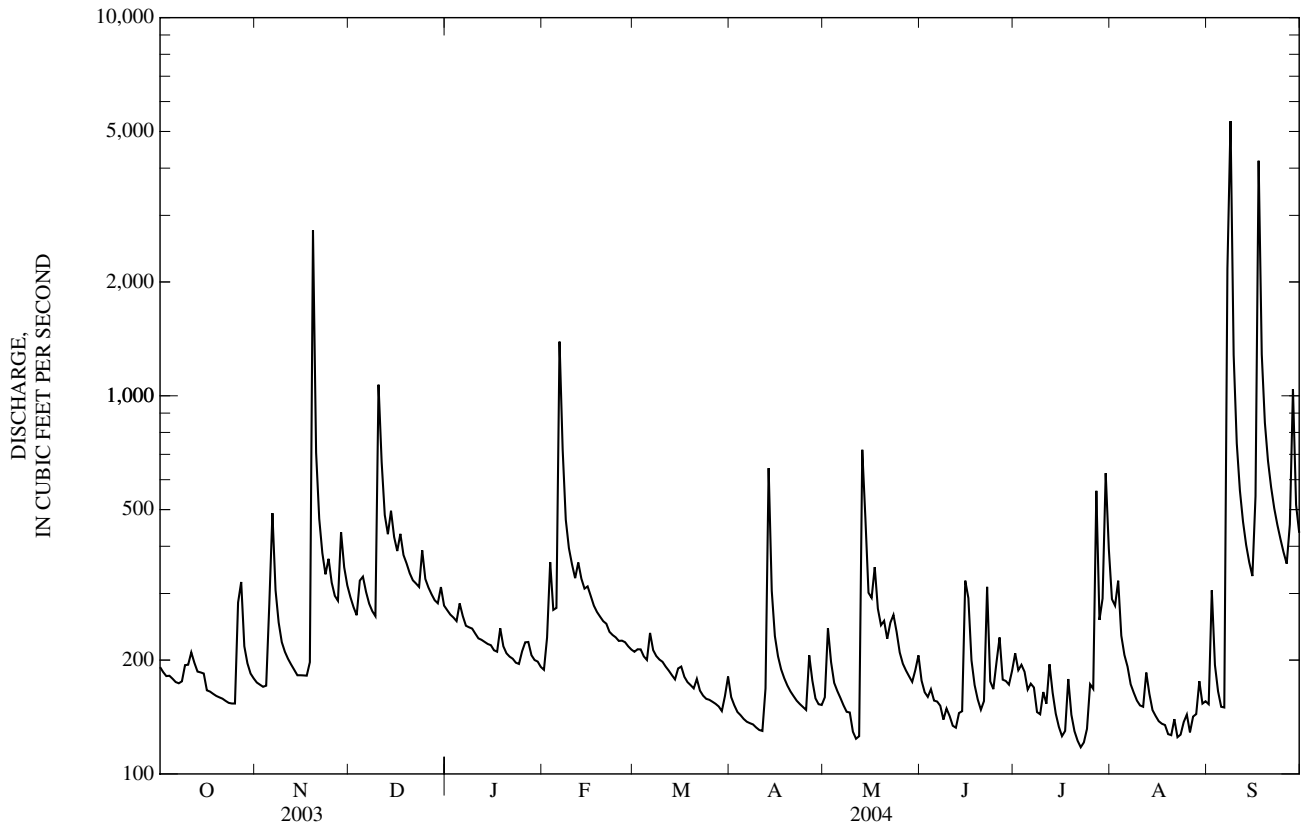
MEAN	175	204	245	280	315	333	320	261	217	175	184	174
MAX	734	635	489	672	648	787	582	551	882	624	543	848
(WY)	(1965)	(1993)	(1993)	(1937)	(1939)	(1979)	(1983)	(1909)	(1909)	(1989)	(1994)	(2004)
MIN	42.2	56.7	72.6	72.0	130	135	108	114	79.8	75.8	65.3	43.6
(WY)	(1955)	(1955)	(1940)	(1981)	(1963)	(1988)	(1986)	(1941)	(1988)	(1986)	(1954)	(1954)

03439000 FRENCH BROAD RIVER AT ROSMAN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1908 - 2004 [@]	
ANNUAL TOTAL	103,759		105,461			
ANNUAL MEAN	284		288		238	
HIGHEST ANNUAL MEAN					370 1949	
LOWEST ANNUAL MEAN					136 1981	
HIGHEST DAILY MEAN	2,740	Nov 19	5,330	Sep 8	5,630	Oct 4, 1964
LOWEST DAILY MEAN	143	Feb 13	118	Jul 22	37*	Sep 25, 1954
ANNUAL SEVEN-DAY MINIMUM	150	Feb 8	131	Aug 17	38	Sep 23, 1954
MAXIMUM PEAK FLOW			8,910	Sep 17	13,500	Oct 4, 1964
MAXIMUM PEAK STAGE			12.76	Sep 17	14.95	Oct 4, 1964
INSTANTANEOUS LOW FLOW			116*	Jul 22	23*	Jan 3, 1940
ANNUAL RUNOFF (CFSM)	4.19		4.24		3.51	
ANNUAL RUNOFF (INCHES)	56.85		57.78		47.66	
10 PERCENT EXCEEDS	397		431		413	
50 PERCENT EXCEEDS	237		197		190	
90 PERCENT EXCEEDS	163		144		87	

[@] See PERIOD OF RECORD.

* See REMARKS.



03440000 CATHEYS CREEK NEAR BREVARD, NC

LOCATION.--Lat 35°12'40", long 82°46'59", Transylvania County, Hydrologic Unit 06010105, on right bank 1,200 ft downstream of Kuykendall Creek, 1.0 mi upstream from U.S. Highway 64, 2.1 mi upstream from mouth, and 3.2 mi southwest of Brevard.

DRAINAGE AREA.--11.7 mi².

PERIOD OF RECORD.--October 1944 to September 1955, November 1986 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,230 ft above NGVD of 1929, from topographic map. Prior to Oct. 2, 1946, at site 0.9 mi downstream at different datum. October 2, 1946, to Jan. 9, 1947, at site 0.8 mi downstream of present gage at different datum. Jan. 10, 1947, to Oct. 3, 1951, at present site at different datum. Oct. 3, 1951, to Sept. 30, 1955, at site 40 ft downstream at different datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 600 ft³/s on basis of slope-area measurement of peak flow. City of Brevard diverted about 1.8 ft³/s from Catheys Creek for municipal water supply. Minimum discharge for period of record also occurred Sept. 11, 12, 2002. Minimum discharge for current water year also occurred Aug. 19, 20.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0145	1,770	6.12	Sep 17	0200	1,260	5.29

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	27	46	41	29	35	29	30	25	37	34	29
2	30	26	43	40	35	35	27	41	24	32	34	44
3	29	26	42	39	44	35	26	35	23	40	32	33
4	29	25	49	39	37	34	26	32	26	37	27	29
5	28	38	48	41	40	33	25	31	23	30	27	26
6	28	71	45	39	199	37	25	29	23	27	25	27
7	27	42	43	37	98	34	24	28	22	25	23	283
8	28	36	42	37	65	33	24	27	22	27	22	746
9	32	33	41	37	56	33	24	28	22	26	21	168
10	31	31	126	36	52	32	24	26	22	24	21	101
11	32	31	84	35	48	31	24	26	21	28	21	80
12	30	30	65	35	54	31	31	25	21	29	25	68
13	28	29	60	34	49	30	95	49	23	29	22	60
14	28	28	63	34	47	30	50	38	23	25	20	54
15	27	27	59	33	48	32	40	32	33	23	20	50
16	26	27	56	33	45	32	37	31	30	22	19	98
17	26	27	62	33	44	30	34	33	23	22	19	479
18	25	31	56	37	42	30	33	38	22	23	19	173
19	25	246	54	33	41	29	32	33	21	21	18	120
20	25	80	51	32	40	29	31	39	20	20	18	100
21	25	62	49	32	40	30	30	35	24	20	20	88
22	24	54	48	31	38	28	29	32	40	20	18	80
23	24	50	47	31	37	27	29	33	25	19	29	73
24	23	54	52	31	37	27	28	31	24	22	28	68
25	23	48	47	33	36	27	28	29	28	21	24	65
26	45	45	45	33	36	26	39	28	28	22	21	61
27	49	44	44	33	36	26	32	26	25	41	31	93
28	33	62	43	32	36	26	29	26	24	25	29	174
29	30	53	42	30	35	25	28	25	27	30	26	89
30	28	49	45	30	---	29	29	28	36	55	37	77
31	27	---	41	30	---	33	---	29	---	39	36	---
TOTAL	896	1,432	1,638	1,071	1,444	949	962	973	750	861	766	3,636
MEAN	28.9	47.7	52.8	34.5	49.8	30.6	32.1	31.4	25.0	27.8	24.7	121
MAX	49	246	126	41	199	37	95	49	40	55	37	746
MIN	23	25	41	30	29	25	24	25	20	19	18	26
CFSM	2.47	4.08	4.52	2.95	4.26	2.62	2.74	2.68	2.14	2.37	2.11	10.4
IN.	2.85	4.55	5.21	3.41	4.59	3.02	3.06	3.09	2.38	2.74	2.44	11.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, @ BY WATER YEAR (WY)

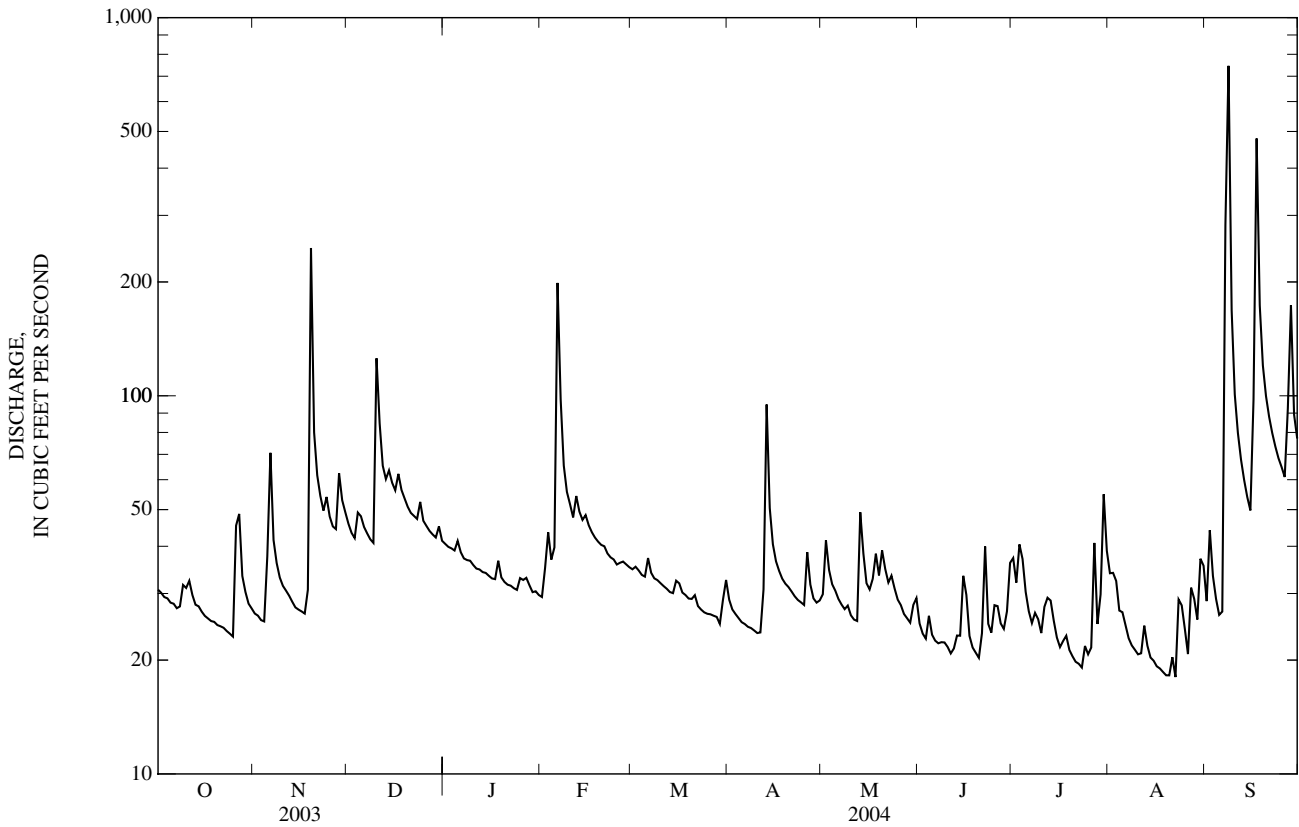
MEAN	23.6	30.0	34.6	42.3	45.9	52.0	47.4	38.2	32.4	28.8	28.0	27.9
MAX	70.0	77.9	63.3	86.3	90.1	110	71.4	58.9	78.2	94.9	91.2	121
(WY)	(1996)	(1949)	(1993)	(1998)	(1998)	(1952)	(1998)	(2003)	(1989)	(1949)	(1994)	(2004)
MIN	7.30	8.69	13.4	14.5	24.2	20.7	27.2	17.2	11.6	10.9	9.02	8.21
(WY)	(1955)	(1955)	(1999)	(1955)	(2002)	(1988)	(1988)	(1988)	(1988)	(1988)	(2002)	(1954)

03440000 CATHEYS CREEK NEAR BREVARD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004 [@]	
ANNUAL TOTAL	16,009		15,378		35.8	
ANNUAL MEAN	43.9		42.0		18.3	
HIGHEST ANNUAL MEAN					59.7	1949
LOWEST ANNUAL MEAN					18.3	1988
HIGHEST DAILY MEAN	246	Nov 19	746	Sep 8	814	Aug 17, 1994
LOWEST DAILY MEAN	21	Feb 9	18	Aug 19	4.7	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	22	Feb 7	19	Aug 16	5.3	Sep 7, 2002
MAXIMUM PEAK FLOW			1,770	Sep 8	2,410*	Aug 17, 1994
MAXIMUM PEAK STAGE			6.12	Sep 8	7.28	Aug 17, 1994
INSTANTANEOUS LOW FLOW			15*	Aug 18	1.0*	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	3.75		3.59		3.06	
ANNUAL RUNOFF (INCHES)	50.90		48.89		41.59	
10 PERCENT EXCEEDS	60		60		62	
50 PERCENT EXCEEDS	41		31		29	
90 PERCENT EXCEEDS	25		23		13	

[@] See PERIOD OF RECORD.

* See REMARKS.



03441000 DAVIDSON RIVER NEAR BREVARD, NC

LOCATION.--Lat 35°16'23", long 82°42'20", Transylvania County, Hydrologic Unit 06010105, on right bank 150 ft upstream of bridge on State Highway 280, 2.1 mi downstream of Avery Creek, 3.3 mi northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 mi².

PERIOD OF RECORD.--October 1920 to September 1990, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage Area. WSP 1336: 1921, 1922 (M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to May 17, 1934, nonrecording gage at site 50 ft downstream at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred July 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1876 reached a stage of 11.9 ft, from studies by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0330	7,390	11.79	Sep 17	0315	6,090	10.16

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	86	142	124	93	113	82	97	74	112	237	170
2	84	84	132	122	106	115	77	133	67	100	204	418
3	80	81	125	118	165	115	75	113	64	114	185	238
4	78	79	150	116	130	113	73	100	77	110	140	168
5	76	173	153	127	137	105	71	95	65	91	128	135
6	75	311	138	121	882	126	70	90	62	82	115	128
7	74	194	129	118	467	113	69	86	61	73	102	1,670
8	78	152	123	118	272	107	68	82	62	75	94	3,940
9	98	132	120	119	211	103	67	96	64	73	89	1,200
10	116	122	554	117	182	107	65	86	67	95	85	731
11	112	114	373	114	164	104	66	80	59	95	86	535
12	100	109	256	113	191	102	100	79	68	85	114	430
13	89	103	220	111	168	99	476	221	84	79	95	361
14	86	97	250	109	157	97	217	189	74	68	82	314
15	85	96	217	108	162	104	153	130	216	61	77	281
16	79	93	196	106	150	109	132	116	170	57	73	497
17	77	91	216	105	142	100	120	121	114	70	69	2,640
18	75	102	188	125	135	97	110	137	93	81	67	994
19	73	1,280	175	108	131	95	104	122	80	62	83	669
20	72	389	162	102	127	92	100	122	72	58	76	526
21	70	261	154	100	126	97	96	120	76	54	75	443
22	69	208	150	96	119	83	92	118	144	56	64	382
23	67	179	146	94	115	81	89	111	88	53	95	340
24	66	182	197	94	115	80	87	102	81	51	90	308
25	65	158	156	105	115	79	85	92	95	212	83	283
26	156	145	147	109	115	78	129	86	104	195	70	261
27	199	140	141	114	117	77	105	82	90	244	78	336
28	122	217	135	107	115	76	92	77	93	153	100	865
29	105	172	132	102	114	74	88	75	82	150	95	410
30	96	153	143	101	---	83	89	86	98	377	229	336
31	90	---	128	96	---	93	---	92	---	247	248	---
TOTAL	2,800	5,703	5,648	3,419	5,223	3,017	3,247	3,336	2,644	3,433	3,428	20,009
MEAN	90.3	190	182	110	180	97.3	108	108	88.1	111	111	667
MAX	199	1,280	554	127	882	126	476	221	216	377	248	3,940
MIN	65	79	120	94	93	74	65	75	59	51	64	128
CFSM	2.24	4.71	4.51	2.73	4.46	2.41	2.68	2.66	2.18	2.74	2.74	16.5
IN.	2.58	5.25	5.20	3.15	4.81	2.78	2.99	3.07	2.43	3.16	3.16	18.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, @ BY WATER YEAR (WY)

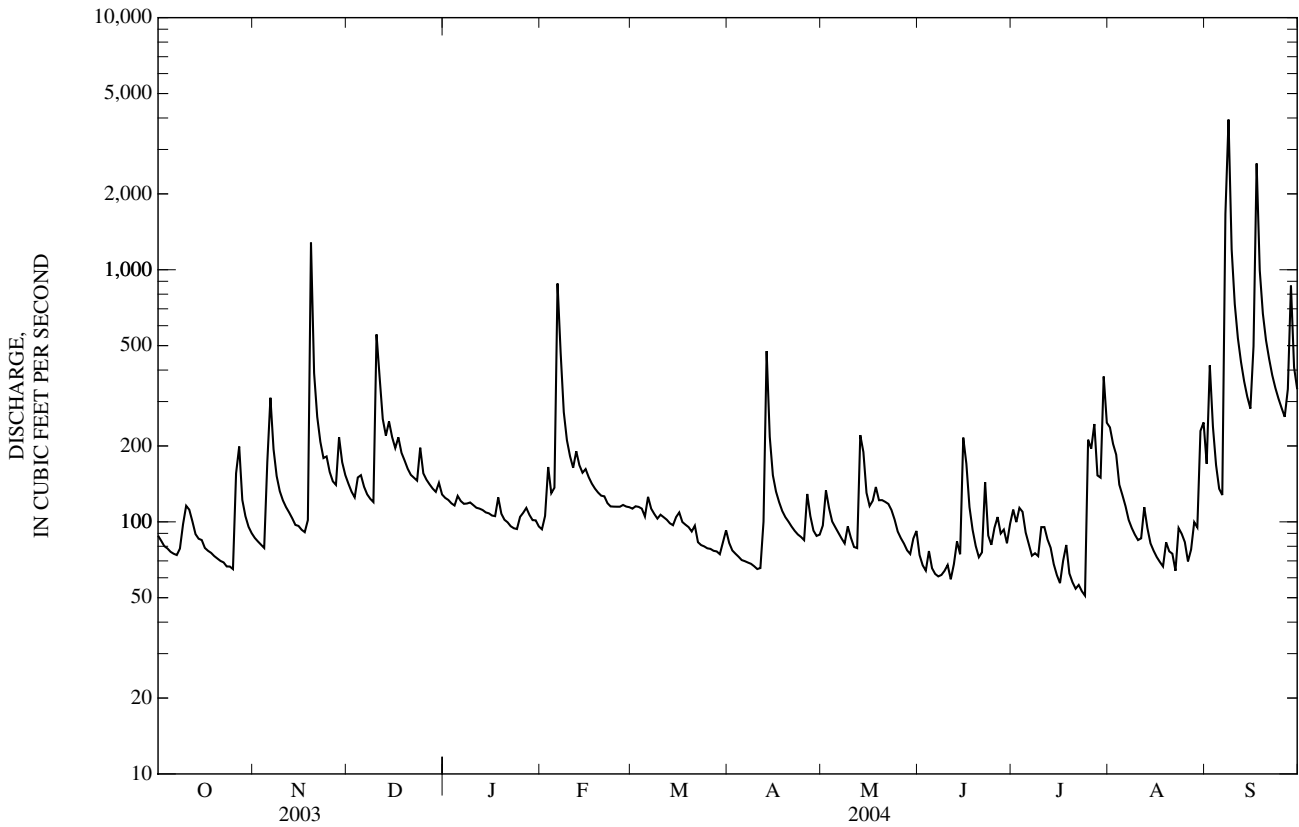
MEAN	94.3	106	130	154	168	183	172	141	112	92.3	97.8	95.6
MAX	379	362	323	374	363	466	349	293	254	285	404	667
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1929)	(1957)	(1923)	(1967)	(1989)	(1928)	(2004)
MIN	18.2	24.5	31.7	37.8	66.5	74.1	57.7	54.6	37.9	37.2	24.0	17.5
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1925)	(1954)

03441000 DAVIDSON RIVER NEAR BREVARD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004 [@]	
ANNUAL TOTAL	59,946		61,907		129	
ANNUAL MEAN	164		169		208	
HIGHEST ANNUAL MEAN					70.6	1949
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	1,280	Nov 19	3,940	Sep 8	3,940	Sep 8, 2004
LOWEST DAILY MEAN	60	Sep 21	51	Jul 24	14	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	69	Oct 19	59	Jul 18	15	Sep 25, 1954
MAXIMUM PEAK FLOW			7,390	Sep 8	e8,400	Aug 15, 1928
MAXIMUM PEAK STAGE			11.79	Sep 8	12.08	Aug 17, 1994
INSTANTANEOUS LOW FLOW			48*	Jul 23	13	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	4.07		4.19		3.18	
ANNUAL RUNOFF (INCHES)	55.20		57.00		43.26	
10 PERCENT EXCEEDS	254		258		228	
50 PERCENT EXCEEDS	139		107		100	
90 PERCENT EXCEEDS	83		72		42	

[@] See PERIOD OF RECORD.

* See REMARKS.



03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'57", long 82°37'26", Transylvania County, Hydrologic Unit 06010105, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 mi downstream of Little River, and at mile 183.7.

DRAINAGE AREA.--296 mi².

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges and those above 2,600 ft³/s, which are fair. Considerable diurnal fluctuation at low flow caused by power plant about 8 mi upstream from station. Maximum gage height for current water year and period of record, 25.81 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since at least 1791, maximum stage 27.1 ft, July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 9	unknown	20,600	25.81	Sep 18	0615	11,000	22.06

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	704	638	1,140	921	659	825	752	648	629	1,010	1,350	796
2	682	620	1,060	900	659	825	651	948	529	1,000	1,190	1,590
3	656	605	1,010	888	e1,160	847	622	998	493	934	1,300	1,440
4	641	593	1,040	876	1,060	830	603	758	546	991	1,030	946
5	628	733	1,250	895	e904	802	583	686	560	e859	869	794
6	617	1,580	1,170	961	2,960	848	574	649	489	768	814	726
7	614	1,350	1,060	865	4,340	895	560	616	471	759	721	2,150
8	611	1,010	1,000	837	3,340	817	555	588	468	649	673	e12,000
9	701	876	964	833	1,770	787	549	636	490	681	641	e13,000
10	748	801	1,800	820	1,430	780	534	654	521	635	612	e8,800
11	779	780	3,310	793	1,290	754	531	586	478	716	596	4,610
12	813	733	2,330	776	1,360	739	607	559	457	838	731	2,760
13	697	696	1,610	771	1,370	720	1,690	663	551	863	763	1,950
14	661	658	1,760	764	1,220	704	1,680	1,500	507	708	600	1,700
15	655	646	1,620	757	1,190	725	1,040	947	916	620	557	1,540
16	623	639	1,430	738	1,220	763	883	788	1,050	565	536	1,700
17	606	629	1,540	723	1,110	744	803	861	830	539	513	8,300
18	604	627	1,450	792	e1,040	700	752	856	709	645	522	10,200
19	597	3,420	1,310	800	e1,000	691	717	785	600	646	539	6,430
20	575	4,820	1,220	726	982	672	688	827	567	576	528	4,530
21	568	3,840	1,150	707	964	683	666	791	563	537	531	3,200
22	561	1,870	1,110	695	925	659	642	744	2,190	585	497	2,430
23	548	1,390	1,080	686	894	637	623	734	1,290	533	571	2,070
24	540	1,330	1,180	677	878	628	610	749	878	498	609	1,890
25	534	1,410	1,120	690	863	623	597	656	959	596	666	1,760
26	685	1,190	1,040	759	849	616	689	611	1,550	773	551	1,650
27	1,440	1,110	1,000	743	873	592	823	586	1,020	1,330	518	1,780
28	956	1,320	973	744	874	588	654	559	878	1,110	773	4,580
29	770	1,540	949	692	843	582	615	540	793	884	768	4,690
30	698	1,240	1,020	687	---	598	612	559	885	1,390	729	3,370
31	660	---	974	679	---	790	---	645	---	1,760	985	---
TOTAL	21,172	38,694	40,670	24,195	38,027	22,464	21,905	22,727	22,867	24,998	22,283	113,382
MEAN	683	1,290	1,312	780	1,311	725	730	733	762	806	719	3,779
MAX	1,440	4,820	3,310	961	4,340	895	1,690	1,500	2,190	1,760	1,350	13,000
MIN	534	593	949	677	659	582	531	540	457	498	497	726
CFSM	2.31	4.36	4.43	2.64	4.43	2.45	2.47	2.48	2.58	2.72	2.43	12.8
IN.	2.66	4.86	5.11	3.04	4.78	2.82	2.75	2.86	2.87	3.14	2.80	14.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

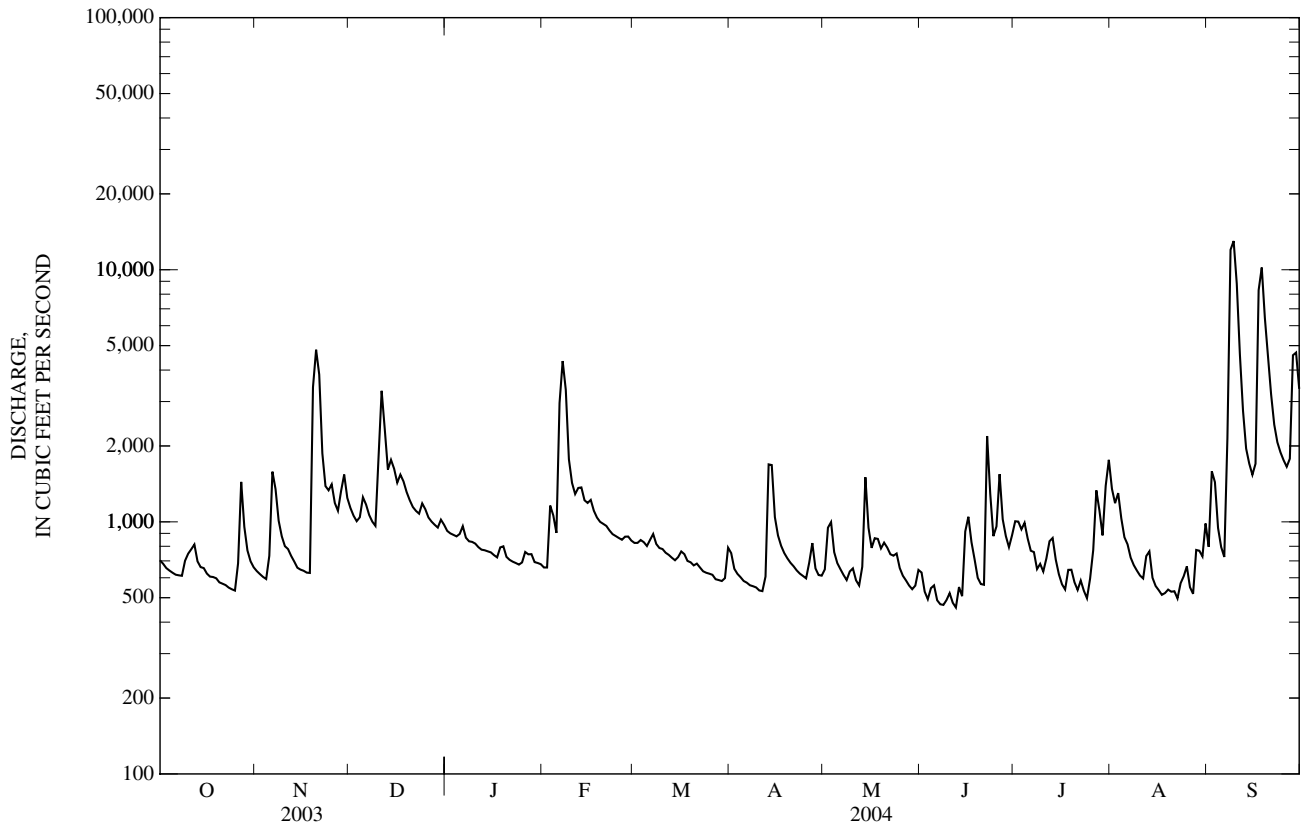
MEAN	752	840	1,023	1,192	1,269	1,379	1,292	1,059	869	726	766	722
MAX	3,504	2,486	2,142	2,783	2,735	3,169	2,509	2,339	1,872	2,214	2,363	3,779
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1936)	(1973)	(1989)	(1949)	(1994)	(2004)
MIN	157	235	301	260	561	550	473	434	278	290	191	169
(WY)	(1955)	(1955)	(1956)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1925)	(1925)	(1954)

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	422,240		413,384			
ANNUAL MEAN	1,157		1,129		989	
HIGHEST ANNUAL MEAN					1,564	1949
LOWEST ANNUAL MEAN					534	1988
HIGHEST DAILY MEAN	4,820	Nov 20	13,000	Sep 9	22,700	Oct 5, 1964
LOWEST DAILY MEAN	534	Oct 25	457	Jun 12	123	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	560	Oct 19	482	Jun 6	133	Oct 8, 1954
MAXIMUM PEAK FLOW			20,600	Sep 9	30,000	Oct 5, 1964
MAXIMUM PEAK STAGE			25.81*	Sep 9	25.81*	Sep 9, 2004
INSTANTANEOUS LOW FLOW			440	Jun 12	119	Oct 1, 1954
ANNUAL RUNOFF (CFSM)	3.91		3.82		3.34	
ANNUAL RUNOFF (INCHES)	53.07		51.95		45.41	
10 PERCENT EXCEEDS	1,680		1,690		1,710	
50 PERCENT EXCEEDS	1,010		772		803	
90 PERCENT EXCEEDS	639		559		354	

* See REMARKS.

e Estimated.



03446000 MILLS RIVER NEAR MILLS RIVER, NC

LOCATION.--Lat 35°23'55", long 82°35'41", Henderson County, Hydrologic Unit 06010105, on right bank 1.5 mi downstream of confluence of North and South Forks, 1.8 mi northwest of Mills River, 4.2 mi northwest of Horseshoe, and at mile 4.6.

DRAINAGE AREA.--66.7 mi².

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft upstream at 2,091.44 ft. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. City of Hendersonville diverted about 4.7 ft³/s from North Fork and Bradley Creek for municipal water supply. Maximum discharge for period of record, from rating curve extended above 6,200 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup. Minimum discharge for current water year also occurred Aug. 29

. EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0145	7,270	12.31	Sep 17	0615	6,090	11.84

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	129	207	172	108	160	136	140	119	142	156	83
2	135	125	196	169	115	161	119	176	103	141	142	292
3	131	122	188	165	181	162	115	171	101	168	140	173
4	128	119	204	162	155	156	112	157	135	160	118	128
5	125	188	218	168	149	153	107	145	110	143	111	108
6	123	282	199	164	763	170	105	140	101	124	108	113
7	122	225	186	152	593	160	105	134	100	119	93	1,480
8	127	190	181	150	360	157	103	129	100	112	87	e4,430
9	156	169	175	150	290	152	103	160	99	104	84	1,120
10	166	158	438	146	258	149	101	134	97	123	82	669
11	158	151	459	140	238	143	101	122	98	180	107	519
12	149	145	326	139	249	138	135	122	100	132	121	437
13	140	139	285	137	234	133	468	147	142	120	107	382
14	140	130	304	135	224	131	338	193	111	101	88	345
15	138	128	286	133	227	136	240	147	204	93	82	316
16	133	126	260	129	221	143	203	137	216	87	81	386
17	130	124	277	128	206	133	181	153	173	92	82	3,200
18	129	126	250	140	198	132	167	167	159	121	78	1,080
19	125	1,390	237	130	191	130	157	165	130	90	76	727
20	122	583	223	124	187	125	150	152	113	85	76	595
21	120	395	212	122	187	129	143	145	109	81	76	516
22	117	321	207	120	181	122	137	148	152	78	71	456
23	114	280	201	117	177	119	133	154	130	82	74	412
24	113	271	241	116	174	116	130	180	119	75	101	380
25	111	245	209	127	170	116	126	139	116	96	99	354
26	182	227	198	125	169	116	174	127	154	125	79	330
27	257	217	191	e116	171	114	180	120	139	170	73	393
28	175	265	185	e114	170	114	146	112	145	191	70	1,300
29	153	242	180	113	163	114	137	108	156	138	85	631
30	140	221	190	e110	---	115	134	121	140	223	78	514
31	133	---	176	112	---	139	---	137	---	204	93	---
TOTAL	4,331	7,433	7,289	4,225	6,709	4,238	4,686	4,482	3,871	3,900	2,918	21,869
MEAN	140	248	235	136	231	137	156	145	129	126	94.1	729
MAX	257	1,390	459	172	763	170	468	193	216	223	156	4,430
MIN	111	119	175	110	108	114	101	108	97	75	70	83
CFSM	2.09	3.71	3.53	2.04	3.47	2.05	2.34	2.17	1.93	1.89	1.41	10.9
IN.	2.42	4.15	4.07	2.36	3.74	2.36	2.61	2.50	2.16	2.18	1.63	12.20

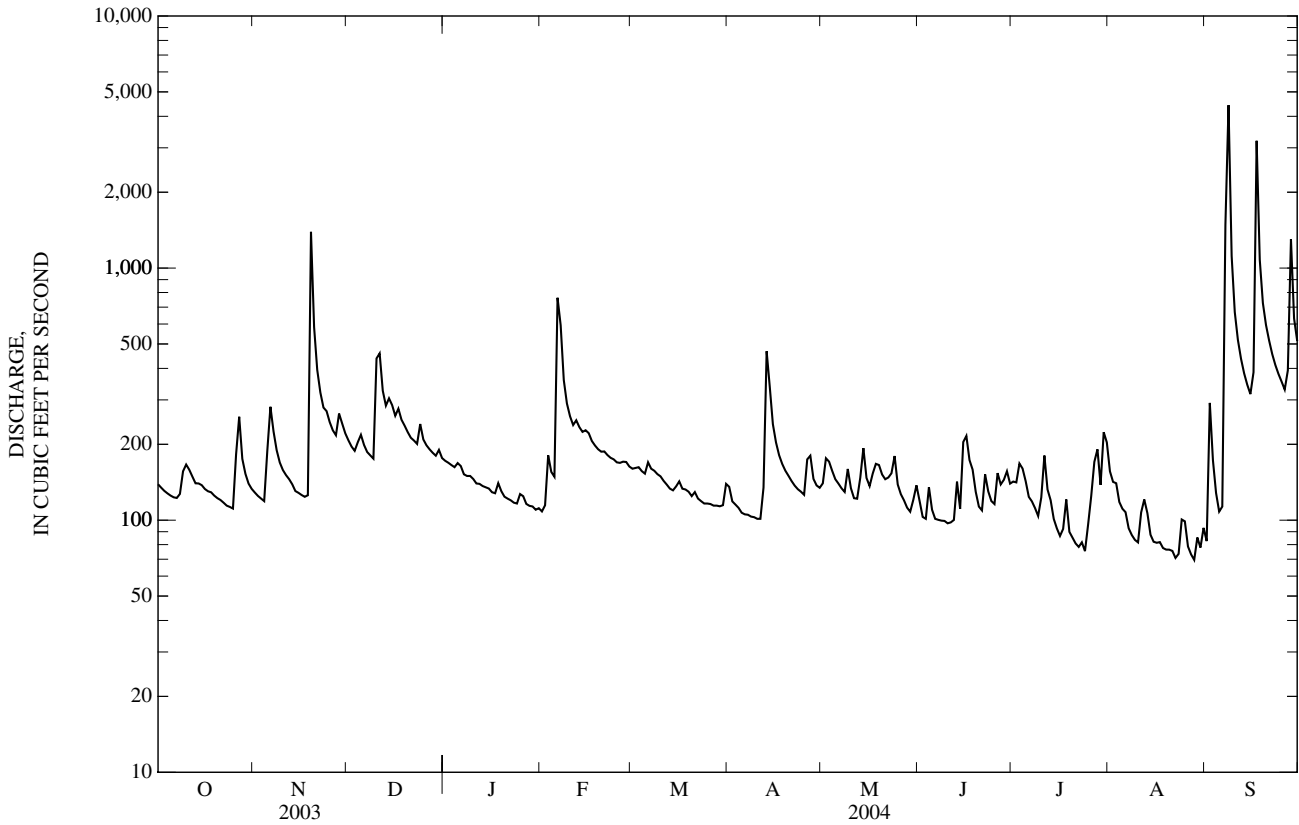
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004,® BY WATER YEAR (WY)

MEAN	124	142	163	196	218	242	234	188	150	121	127	122
MAX	465	510	338	534	499	520	468	425	359	356	506	729
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1957)	(2003)	(1992)	(1989)	(1940)	(2004)
MIN	24.8	35.2	40.7	43.5	88.9	87.5	79.7	76.2	41.7	38.6	25.4	22.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1988)	(1925)	(1925)

03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004 [®]	
ANNUAL TOTAL	91,092		75,951		169	
ANNUAL MEAN	250		208		86.3	
HIGHEST ANNUAL MEAN					272	1949
LOWEST ANNUAL MEAN					86.3	2002
HIGHEST DAILY MEAN	1,490	Jul 2	4,430	Sep 8	4,470	Aug 13, 1940
LOWEST DAILY MEAN	103	Feb 13	70	Aug 28	18	Sep 30, 1954
ANNUAL SEVEN-DAY MINIMUM	108	Feb 8	76	Aug 17	19	Sep 24, 1954
MAXIMUM PEAK FLOW			7,270	Sep 8	13,400*	Aug 30, 194
MAXIMUM PEAK STAGE			12.31	Sep 8	13.62	Aug 30, 1940
INSTANTANEOUS LOW FLOW			68*	Aug 28	16*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	3.74		3.11		2.53	
ANNUAL RUNOFF (INCHES)	50.80		42.36		34.39	
10 PERCENT EXCEEDS	377		308		301	
50 PERCENT EXCEEDS	219		140		135	
90 PERCENT EXCEEDS	125		100		54	

* See REMARKS.
[®] See PERIOD OF RECORD.
 e Estimated.



03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC

LOCATION.--Lat 35°25'39", long 82°32'53", Henderson County, Hydrologic Unit 06010105, on right bank 30 ft downstream of bridge on Secondary Road 1419, 0.4 mi downstream from McDowell Creek, 2.9 mi west of Fletcher, and at river mile 165.3.

DRAINAGE AREA.--640 mi².

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,055 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0615	25,500	20.13	Sep 17	1630	20,200	17.62

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in the reports for 2001, 2002, and 2003.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
2001	Sep. 25, 2001	2,480	6.36
2002	Sep. 27, 2002	5,110	8.55
2003	May 7, 2003	10,800	12.50

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,220	1,110	1,960	1,590	1,080	1,420	1,410	1,100	1,200	1,760	2,190	1,600
2	1,170	1,070	1,810	1,550	e1,080	1,410	1,180	1,510	978	1,700	1,950	4,310
3	1,120	1,050	1,710	1,530	2,040	1,440	1,100	1,780	898	1,690	1,840	2,970
4	1,100	1,020	1,760	1,500	1,980	1,410	1,070	1,370	1,080	1,670	1,620	1,720
5	1,070	1,210	2,180	1,530	1,630	1,370	1,020	1,220	1,060	1,510	1,360	1,360
6	1,050	2,980	2,100	1,640	6,120	1,420	993	1,150	920	1,300	1,230	1,220
7	1,060	2,620	1,870	1,480	8,410	1,500	982	1,090	875	1,220	1,080	4,490
8	1,050	1,840	1,750	1,420	7,250	1,380	974	1,020	878	1,150	983	21,300
9	1,270	1,560	1,670	1,420	4,840	1,320	959	1,080	908	1,130	921	23,800
10	1,430	1,420	2,850	1,400	2,730	1,310	931	1,120	971	1,090	875	18,700
11	1,390	1,350	5,580	1,350	2,370	1,270	919	1,030	1,010	1,290	935	11,600
12	1,460	1,310	4,920	1,320	2,490	1,240	1,050	989	870	1,350	1,290	7,160
13	1,270	1,240	3,130	1,300	2,600	1,200	2,880	1,110	1,600	1,410	1,260	4,140
14	1,170	1,160	3,270	1,270	2,240	1,180	3,460	2,020	1,080	1,180	992	2,980
15	1,140	1,130	3,090	1,270	2,140	1,210	2,050	1,690	3,120	1,030	888	2,630
16	1,080	1,120	2,630	1,240	2,210	1,300	1,640	1,300	3,100	918	846	2,820
17	1,040	1,100	2,770	1,210	1,980	1,260	1,470	1,370	2,130	901	816	16,000
18	e1,000	1,080	2,670	1,290	1,860	1,200	1,360	1,460	1,620	1,210	803	18,300
19	e980	5,860	2,380	1,340	1,770	1,180	1,290	1,400	1,300	1,020	832	15,600
20	e960	7,440	2,200	1,220	1,720	1,130	1,230	1,380	1,160	988	836	10,600
21	e940	7,010	2,050	1,170	1,700	1,150	1,180	1,320	1,130	863	790	7,320
22	e940	5,350	1,970	1,160	1,610	1,120	1,130	1,260	2,810	885	789	5,220
23	924	2,660	1,910	1,140	1,550	1,080	1,090	1,260	2,790	863	769	3,760
24	907	2,330	2,060	1,120	1,540	1,050	1,060	1,310	1,650	882	1,060	3,330
25	901	2,430	2,010	1,150	1,510	1,050	1,040	1,160	1,730	1,080	965	3,050
26	1,090	2,100	1,830	1,250	1,470	1,030	1,240	1,060	2,850	1,200	890	2,840
27	2,400	1,930	1,760	1,230	1,530	1,030	1,530	1,010	2,100	1,710	803	2,940
28	1,810	2,090	1,700	1,270	1,560	1,020	1,200	970	1,850	2,220	964	8,360
29	1,380	2,590	1,660	1,160	1,470	1,000	1,080	937	1,670	1,400	1,230	8,680
30	1,220	2,160	1,720	1,160	---	1,020	1,050	1,010	1,480	1,790	1,100	7,420
31	1,140	---	1,700	1,130	---	1,440	---	1,270	---	2,600	1,560	---
TOTAL	36,682	69,320	72,670	40,810	72,480	38,140	39,568	38,756	46,818	41,010	34,467	226,220
MEAN	1,183	2,311	2,344	1,316	2,499	1,230	1,319	1,250	1,561	1,323	1,112	7,541
MAX	2,400	7,440	5,580	1,640	8,410	1,500	3,460	2,020	3,120	2,600	2,190	23,800
MIN	901	1,020	1,660	1,120	1,080	1,000	919	937	870	863	769	1,220
CFSM	1.85	3.61	3.66	2.06	3.91	1.92	2.06	1.95	2.44	2.07	1.74	11.8
IN.	2.13	4.03	4.22	2.37	4.21	2.22	2.30	2.25	2.72	2.38	2.00	13.15

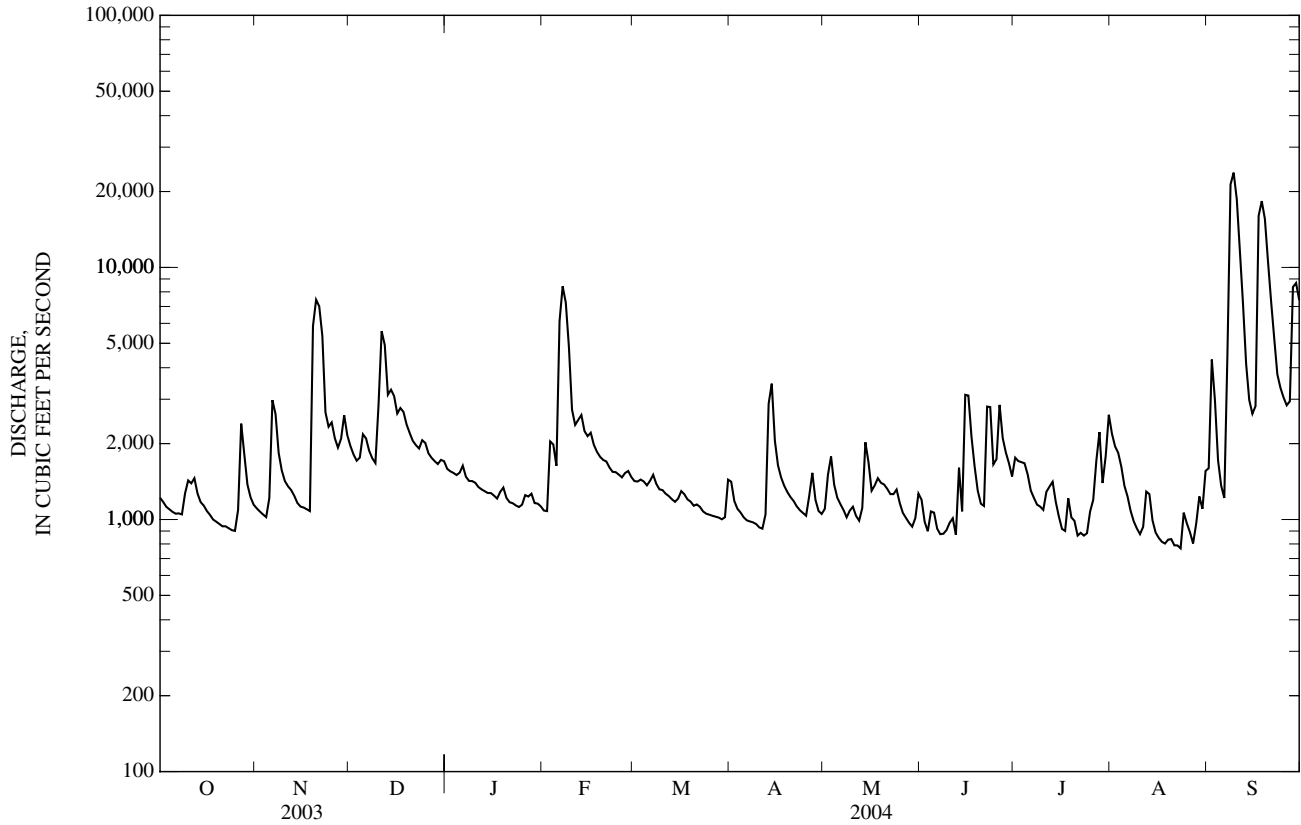
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

	895	1,485	1,826	1,276	1,851	1,772	1,796	2,050	1,507	1,327	1,071	2,778
MEAN	895	1,485	1,826	1,276	1,851	1,772	1,796	2,050	1,507	1,327	1,071	2,778
MAX	1,183	2,311	2,344	1,363	2,499	2,480	2,706	3,663	2,158	2,743	2,076	7,541
(WY)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	587	522	806	1,149	1,130	1,230	1,319	1,236	801	513	346	787
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(2002)	(2002)	(2002)	(2002)	(2001)

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	812,178		756,941			
ANNUAL MEAN	2,225		2,068		1,712	
HIGHEST ANNUAL MEAN					2,145	2003
LOWEST ANNUAL MEAN					923	2002
HIGHEST DAILY MEAN	9,470	May 7	23,800	Sep 9	23,800	Sep 9, 2004
LOWEST DAILY MEAN	866	Feb 7	769	Aug 23	201	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	917	Feb 6	805	Aug 17	221	Sep 7, 2002
MAXIMUM PEAK FLOW			25,500	Sep 8	25,500	Sep 8, 2004
MAXIMUM PEAK STAGE			20.13	Sep 8	20.13	Sep 8, 2004
INSTANTANEOUS LOW FLOW			736	Aug 23	193	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	3.48		3.23		2.68	
ANNUAL RUNOFF (INCHES)	47.21		44.00		36.35	
10 PERCENT EXCEEDS	3,680		3,000		2,850	
50 PERCENT EXCEEDS	1,890		1,320		1,270	
90 PERCENT EXCEEDS	1,060		963		522	

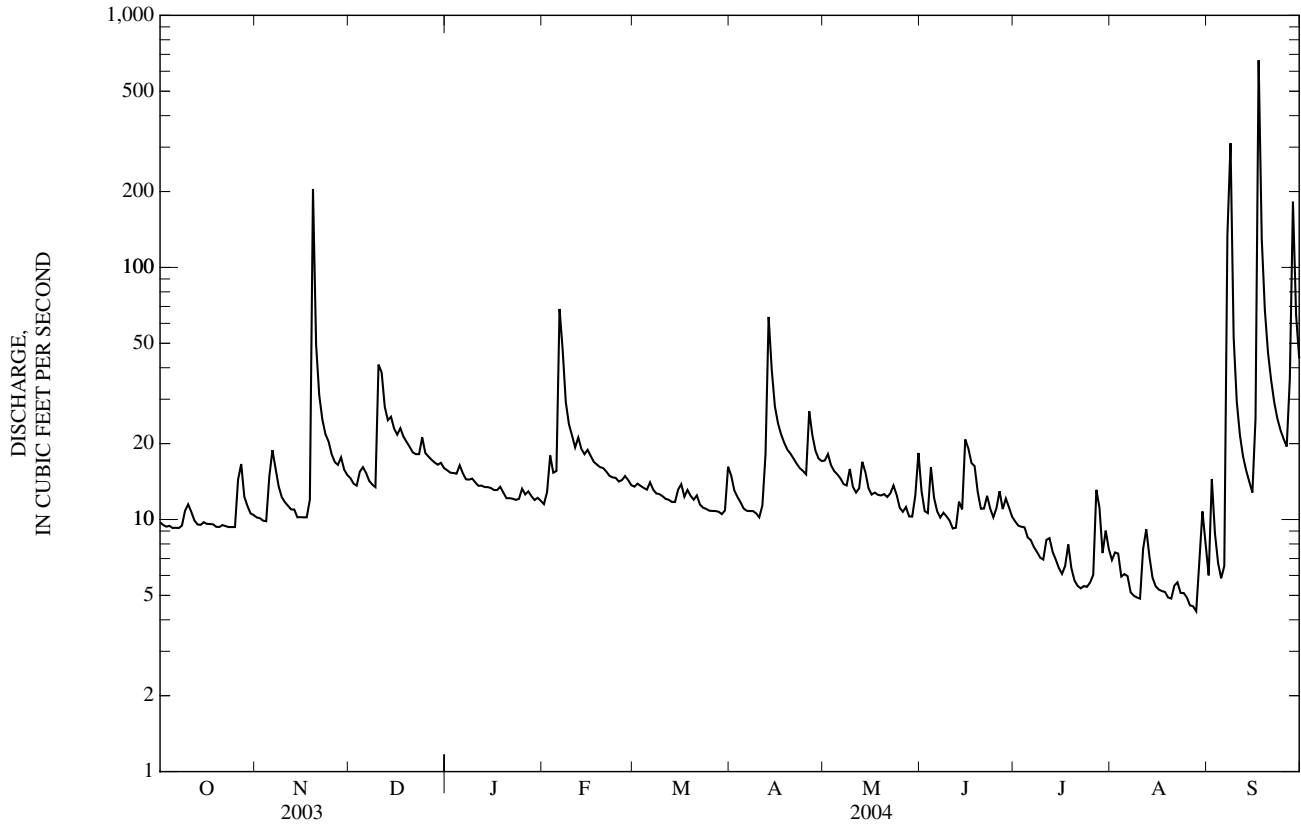
e Estimated.



03447894 BENT CREEK AT BENT CREEK GAP NEAR GLEN BALD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	7,207.9		6,808.6		18.2	
ANNUAL MEAN	19.7		18.6		17.9	
HIGHEST ANNUAL MEAN					18.6	2004
LOWEST ANNUAL MEAN					17.9	2003
HIGHEST DAILY MEAN	205	Nov 19	663	Sep 17	663	Sep 17, 2004
LOWEST DAILY MEAN	7.9	Feb 9	4.3	Aug 28	0.75	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	8.2	Feb 7	4.9	Aug 22	0.91	Sep 7, 2002
MAXIMUM PEAK FLOW			3,000*	Sep 17	3,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			9.81	Sep 17	9.81	Sep 17, 2004
INSTANTANEOUS LOW FLOW			4.2*	Aug 28	0.71*	Sep 11, 2002
ANNUAL RUNOFF (CFSM)	2.26		2.13		2.09	
ANNUAL RUNOFF (INCHES)	30.68		28.98		28.36	
10 PERCENT EXCEEDS	27		23		25	
50 PERCENT EXCEEDS	17		13		14	
90 PERCENT EXCEEDS	9.4		6.6		6.5	

* See REMARKS.



0344894205 NORTH FORK SWANNANOVA RIVER NEAR WALKERTOWN, NC

LOCATION.--Lat 35°41'07", long 82°19'57", Buncombe County, Hydrologic Unit 06010105, on left bank 400 ft downstream of Sugar Springs Cove, 0.6 mi upstream from Burnette Reservoir, and 2.3 mi north of Walkertown.

DRAINAGE AREA.--14.5 mi².

PERIOD OF RECORD.--February 1989 to current year.

REVISED RECORDS.--WDR NC-91-1: 1989(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 1,000 ft³/s on basis of slope area measurement of peak flow. Maximum gage height for current water year and period of record from floodmark. Minimum discharge for period of record also occurred Sept. 15, 16, 18, 19, Oct. 3, 4, 1998. Minimum discharge for current water year also occurred July 23, 24, 25 and Aug. 22, 23.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	unknown	7,000	10.33	Sep 17	0400	3,510	8.27

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 1989-1998 and 2000.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
1989	Sep. 22, 1989	2,630	7.57	1994	Aug. 17, 1994	3,280	8.10
1990	Mar. 17, 1990	1,410	6.31	1995	Jan. 14, 1995	3,400	8.19
1991	Mar. 29, 1991	1,090	5.89	1996	Oct. 5, 1995	2,260	7.23
1992	Aug. 28, 1992	1,040	5.81	1997	Dec. 1, 1996	1,320	6.20
1993	May 7, 1993	1,460	6.37	1998	Jan. 7, 1998	2,620	7.56
				2000	Nov. 2, 1999	1,020	5.79

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	28	36	36	20	25	35	32	35	21	41	105
2	22	26	34	35	20	29	33	41	28	37	50	206
3	20	24	32	37	24	33	34	40	25	43	40	99
4	19	23	34	38	22	33	39	36	31	33	29	65
5	17	30	38	43	22	34	38	33	27	29	25	49
6	16	104	34	40	208	78	37	31	24	36	21	54
7	16	77	32	33	119	55	40	29	23	27	18	e1,880
8	16	55	31	31	74	43	40	28	23	24	16	e2,310
9	36	45	30	30	60	38	36	55	21	21	15	e700
10	50	39	72	28	52	35	33	51	20	19	14	e220
11	41	35	70	26	45	32	32	39	20	19	15	e140
12	35	32	53	25	44	30	39	36	23	18	24	e120
13	30	33	47	24	40	28	e110	37	32	16	20	e81
14	28	30	53	23	39	27	90	42	25	16	16	e70
15	35	28	48	22	38	28	68	37	43	14	15	e58
16	29	27	44	22	36	37	60	35	41	14	14	e79
17	26	25	52	21	34	33	52	40	38	13	13	1,310
18	24	25	46	37	32	41	47	41	31	16	14	390
19	22	538	43	31	31	51	42	41	27	13	12	211
20	21	149	39	27	30	46	39	35	24	12	12	152
21	20	97	37	25	33	53	37	31	22	11	11	120
22	19	75	36	24	30	44	34	28	22	11	11	98
23	18	61	37	23	30	39	33	33	22	10	20	83
24	18	56	67	22	29	37	31	29	22	16	22	72
25	17	49	52	23	28	34	29	26	e36	34	19	63
26	37	44	46	23	27	32	51	25	41	21	16	56
27	79	40	42	24	27	31	44	26	31	29	15	67
28	48	46	40	22	26	29	37	23	28	23	19	256
29	38	43	38	21	25	28	35	22	25	21	19	120
30	33	39	46	21	---	30	33	22	22	33	24	91
31	30	---	40	20	---	36	---	47	---	34	55	---
TOTAL	884	1,923	1,349	857	1,245	1,149	1,308	1,071	832	684	655	9,325
MEAN	28.5	64.1	43.5	27.6	42.9	37.1	43.6	34.5	27.7	22.1	21.1	311
MAX	79	538	72	43	208	78	110	55	43	43	55	2,310
MIN	16	23	30	20	20	25	29	22	20	10	11	49
CFSM	1.97	4.42	3.00	1.91	2.96	2.56	3.01	2.38	1.91	1.52	1.46	21.4
IN.	2.27	4.93	3.46	2.20	3.19	2.95	3.36	2.75	2.13	1.75	1.68	23.92

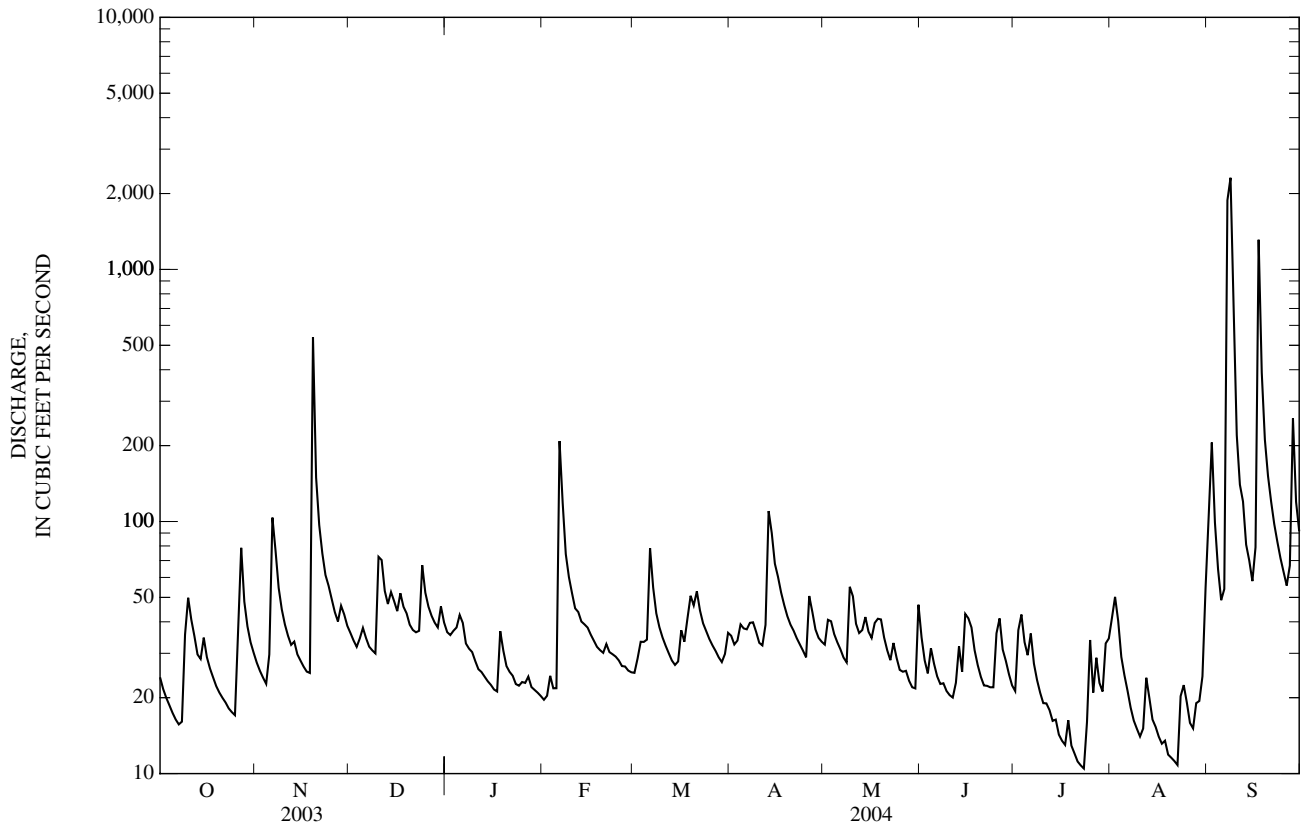
0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)												
MEAN	26.1	34.0	41.0	57.6	58.2	67.9	54.9	45.1	35.2	24.1	29.3	37.0
MAX (WY)	79.1 (1996)	84.6 (1993)	79.8 (1993)	134 (1995)	120 (1990)	111 (1993)	86.4 (2003)	75.3 (2003)	78.0 (1995)	63.0 (1999)	123 (1994)	311 (2004)
MIN (WY)	2.49 (1999)	4.88 (1999)	14.8 (1999)	27.6 (2004)	27.7 (2002)	37.1 (2004)	18.6 (1995)	18.9 (2001)	13.5 (1998)	5.71 (1998)	3.96 (1998)	1.92 (1998)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1989 - 2004
ANNUAL TOTAL	19,349	21,282	
ANNUAL MEAN	53.0	58.1	42.1
HIGHEST ANNUAL MEAN			58.1 2004
LOWEST ANNUAL MEAN			24.1 2002
HIGHEST DAILY MEAN	538 Nov 19	2,310 Sep 8	2,310 Sep 8, 2004
LOWEST DAILY MEAN	11 Sep 21	10 Jul 23	1.5 Sep 14, 1998
ANNUAL SEVEN-DAY MINIMUM	13 Sep 15	12 Jul 17	1.6 Sep 12, 1998
MAXIMUM PEAK FLOW		7,000* Sep 8	7,000* Sep 8, 2004
MAXIMUM PEAK STAGE		10.33* Sep 8	10.33* Sep 8, 2004
INSTANTANEOUS LOW FLOW		10* Jul 21	1.5* Sep 14, 1998
ANNUAL RUNOFF (CFSM)	3.66	4.01	2.90
ANNUAL RUNOFF (INCHES)	49.64	54.60	39.45
10 PERCENT EXCEEDS	90	71	80
50 PERCENT EXCEEDS	41	33	28
90 PERCENT EXCEEDS	20	19	6.9

* See REMARKS.
 e Estimated.



03450000 BEETREE CREEK NEAR SWANNANOVA, NC

LOCATION.--Lat 35°39'11", long 82°24'19", Buncombe County, Hydrologic Unit 06010105, on left bank 0.5 mi downstream of Wolfe Branch, 0.8 mi upstream from Beetree Reservoir dam, 3.8 mi north of Swannanoa, and 4.8 mi above mouth.

DRAINAGE AREA.--5.46 mi².

PERIOD OF RECORD.--February 1926 to September 1975, October 1979 to September 1981, October 1985 to September 1986, and May 1987 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928, 1936-37 (M). WSP 953: 1929 (M). WSP 1276: 1932.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 2,728.39 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good except those for period Sept. 7-30, which are poor. Maximum discharge for period of record, from rating curve extended above 240 ft³/s on basis of computation of peak flow over weir. Minimum discharge for current water year also occurred Oct. 8, 25, 26 and July 29. Minimum discharge for period of record also occurred July 25, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0130	775	4.44	Sep 17	0400	874	4.40

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	6.1	8.8	8.6	5.3	7.3	12	12	10	5.9	10	35
2	4.2	5.7	8.0	8.1	5.6	7.9	11	14	8.1	18	15	58
3	3.8	5.3	7.7	7.9	7.9	8.0	12	12	7.1	23	14	39
4	3.6	4.9	8.4	7.5	6.8	7.8	13	11	10	17	8.0	29
5	3.3	7.2	8.8	8.4	6.6	7.7	13	11	7.7	13	6.3	22
6	3.1	25	7.9	7.6	34	13	12	9.8	6.5	14	6.0	20
7	3.0	21	7.4	6.8	35	12	12	9.1	6.1	10	4.8	255
8	3.1	16	7.2	6.6	25	11	11	8.3	5.9	8.5	4.3	481
9	3.7	13	6.9	6.4	21	10	10	8.7	5.4	7.2	3.9	238
10	4.7	11	15	6.2	18	9.5	9.5	7.9	5.5	6.3	3.7	118
11	4.1	9.6	18	6.0	16	8.9	9.3	7.2	5.0	8.1	4.5	77
12	3.9	8.7	15	5.9	15	8.3	10	6.7	7.0	6.7	8.7	63
13	3.7	7.8	14	5.7	14	7.7	29	8.4	12	5.5	6.2	45
14	4.0	6.9	14	5.5	13	7.4	27	8.8	9.1	4.9	5.2	27
15	4.2	6.5	12	5.5	13	8.1	23	7.3	18	4.6	4.9	20
16	3.8	6.1	11	5.1	12	10	20	8.3	16	4.3	4.3	37
17	3.6	5.9	13	5.1	11	9.0	17	10	13	4.8	4.2	504
18	3.5	5.5	12	8.6	11	12	15	8.5	10	5.3	4.8	218
19	3.3	92	11	6.9	9.9	13	14	7.8	8.6	4.1	3.7	104
20	3.3	42	10	6.2	9.6	12	12	7.1	7.4	3.7	3.5	70
21	3.2	28	10	6.0	9.8	14	11	6.4	6.7	3.5	3.5	46
22	3.1	22	9.9	5.8	9.0	12	10	6.4	6.6	3.4	3.4	34
23	3.0	18	11	6.3	8.7	11	9.6	11	6.6	3.3	6.4	26
24	2.9	16	17	5.4	8.5	11	9.0	9.1	6.3	3.7	6.1	23
25	2.9	13	14	5.6	8.0	10	8.5	7.5	8.8	3.5	5.1	21
26	8.5	12	12	5.9	7.6	9.3	20	7.0	10	3.3	4.5	20
27	17	11	12	6.3	7.7	8.8	17	6.9	7.8	4.2	4.8	22
28	11	11	11	5.7	7.6	8.3	14	6.1	7.1	3.3	9.3	48
29	9.2	10	9.9	5.7	7.4	7.8	13	5.7	6.2	3.0	11	30
30	7.8	9.4	10	5.4	---	8.6	12	5.6	5.8	5.2	9.7	23
31	6.9	---	9.2	5.6	---	11	---	15	---	4.8	18	---
TOTAL	150.3	456.6	342.1	198.3	364.0	302.4	415.9	270.6	250.3	216.1	207.8	2,753
MEAN	4.85	15.2	11.0	6.40	12.6	9.75	13.9	8.73	8.34	6.97	6.70	91.8
MAX	17	92	18	8.6	35	14	29	15	18	23	18	504
MIN	2.9	4.9	6.9	5.1	5.3	7.3	8.5	5.6	5.0	3.0	3.4	20
CFSM	0.89	2.79	2.02	1.17	2.30	1.79	2.54	1.60	1.53	1.28	1.23	16.8
IN.	1.02	3.11	2.33	1.35	2.48	2.06	2.83	1.84	1.71	1.47	1.42	18.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2004, @ BY WATER YEAR (WY)

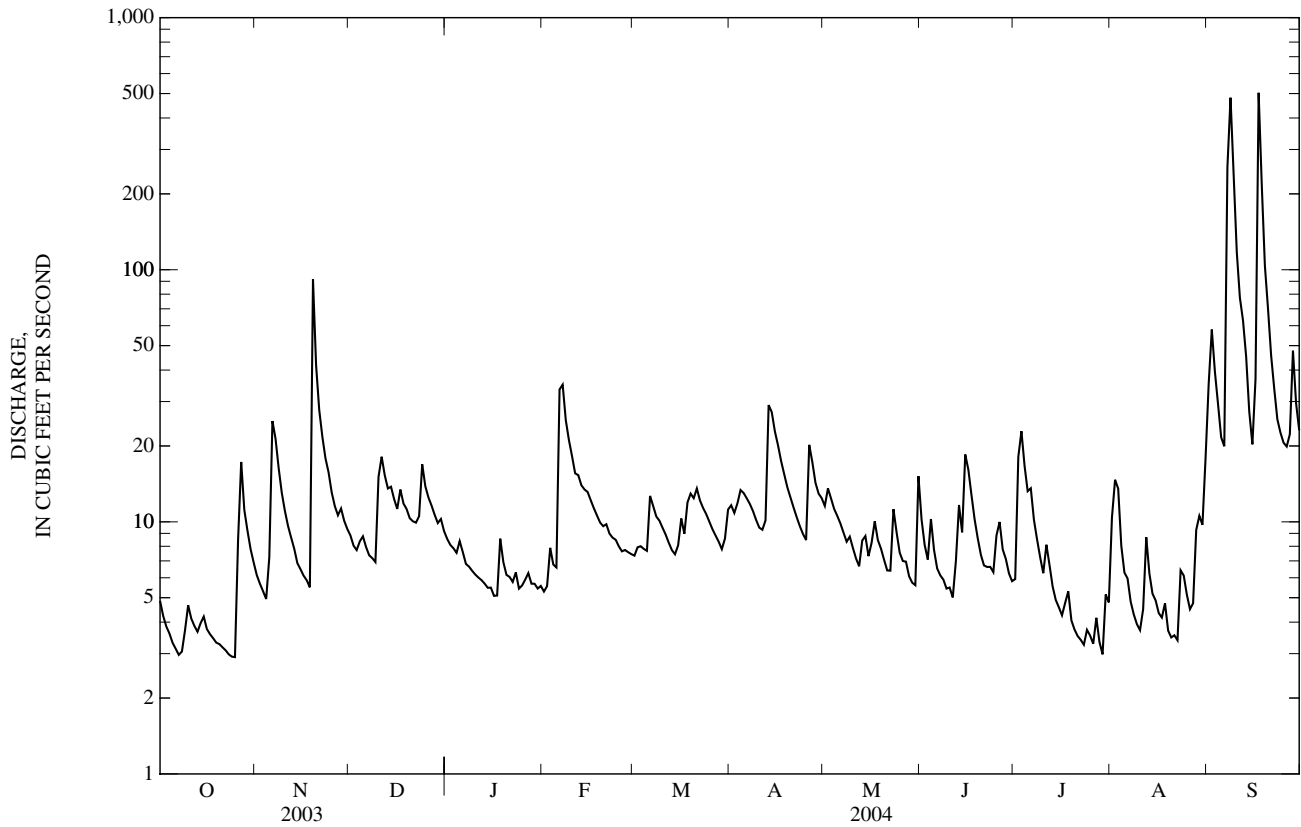
MEAN	6.07	8.31	10.4	13.4	15.4	18.8	16.7	11.9	8.48	6.18	6.48	6.05
MAX	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	91.8
(WY)	(1930)	(1980)	(1933)	(1937)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
MIN	0.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	0.83	0.51
(WY)	(1955)	(1955)	(1940)	(1940)	(1941)	(1988)	(1986)	(1948)	(1988)	(1998)	(1998)	(1954)

03450000 BEETREE CREEK NEAR SWANNANOVA, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1926 - 2004 [@]	
ANNUAL TOTAL	4,778.8		5,927.4		10.7	
ANNUAL MEAN	13.1		16.2		17.8	
HIGHEST ANNUAL MEAN					5.37	1949
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	112	May 6	504	Sep 17	528	Aug 13, 1940
LOWEST DAILY MEAN	1.2	Sep 21	2.9	Oct 24	0.30	Sep 30, 1954
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 15	3.1	Oct 19	0.40	Sep 24, 1954
MAXIMUM PEAK FLOW			874	Sep 17	1370*	Aug 13, 1940
MAXIMUM PEAK STAGE			4.44	Sep 8	6.20	Aug 13, 1940
INSTANTANEOUS LOW FLOW			2.8*	Oct 7	0.28*	Jul 24, 1996
ANNUAL RUNOFF (CFSM)	2.40		2.97		1.96	
ANNUAL RUNOFF (INCHES)	32.56		40.38		26.60	
10 PERCENT EXCEEDS	26		22		22	
50 PERCENT EXCEEDS	10		8.6		7.3	
90 PERCENT EXCEEDS	3.3		4.1		1.6	

[@] See PERIOD OF RECORD.

* See REMARKS.



03451000 SWANNANOA RIVER AT BILTMORE, NC

LOCATION.--Lat 35°34'06", long 82°32'41", Buncombe County, Hydrologic Unit 06010105, on left bank at Biltmore, 100 ft downstream of Biltmore Avenue Bridge, 200 ft upstream from Southern Railway bridge, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--October 1920 to September 1926, May 1934 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 803: 1921(M), 1923(M), 1925(M). WSP 823: Drainage area. WSP 1306: 1921(M), 1924(M), 1926(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,976.58 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Dec. 1, 1920, to Sept. 30, 1926, nonrecording gage at site 100 ft upstream at same datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, and those above 6,500 ft³/s, which are poor. Considerable regulation from 1925-50 (reservoir silted) by Lake Craig, 3.6 mi upstream from station. City of Asheville diverted an average of 27.4 ft³/s from Burnett Lake (station 03448959) on North Fork Swannanoa River, 20 mi upstream from station. An average of 34.9 ft³/s was discharged downstream of station into the French Broad River as treated sewage effluent. Maximum discharge for period of record, from rating curve extended above 9,100 ft³/s on basis of computation of peak flow over dam 3.6 mi upstream from station. Minimum discharge for period of record occurred several days in Oct. 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed: 26 ft; discharge: 40,000 ft³/s in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft; discharge, 23,000 ft³/s, from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928 reached a stage of 18.74 ft, from floodmarks; discharge, 17,800 ft³/s. High stages are subject to backwater from French Broad River.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0830	12,900	19.22	Sep 17	1100	9,020	16.74

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	89	125	124	74	109	148	127	124	106	89	203
2	66	85	115	119	91	111	132	148	100	147	106	579
3	60	81	109	114	148	114	128	136	101	227	106	387
4	58	76	120	114	112	112	128	125	166	163	74	252
5	55	109	129	124	108	113	124	117	109	133	60	181
6	54	228	122	122	671	156	122	111	87	117	60	153
7	54	218	111	110	609	169	121	103	80	109	50	1,550
8	53	179	105	104	376	158	122	97	98	93	46	10,200
9	106	147	103	104	278	137	120	121	85	103	44	3,400
10	125	128	228	102	229	130	114	162	83	83	42	1,040
11	100	115	252	96	198	121	123	120	73	73	45	616
12	97	106	198	95	219	115	147	108	119	103	105	863
13	87	103	177	91	192	108	418	129	251	73	76	624
14	84	91	190	88	169	105	360	130	128	65	52	365
15	90	86	171	91	167	115	268	111	351	59	51	555
16	75	86	155	83	157	134	221	101	216	53	47	518
17	72	84	208	82	144	122	192	152	201	58	56	5,760
18	69	95	174	99	139	e130	174	125	149	91	327	1,630
19	65	1,490	169	99	131	e160	159	116	120	60	76	944
20	65	769	152	93	128	147	148	109	105	53	58	660
21	62	420	138	90	128	155	141	100	96	49	58	514
22	62	300	134	88	122	146	128	103	93	60	52	424
23	60	238	132	86	119	137	122	116	91	51	58	363
24	61	205	176	81	116	129	116	104	107	48	115	316
25	60	176	167	88	113	123	110	91	140	62	77	282
26	117	157	157	90	114	119	244	85	170	52	62	256
27	210	145	147	91	118	114	181	87	120	82	70	269
28	121	156	139	90	115	110	148	79	111	58	122	1,090
29	115	146	133	83	112	106	134	92	100	48	97	483
30	104	133	135	81	---	111	127	94	119	77	101	389
31	95	---	134	77	---	174	---	179	---	109	131	---
TOTAL	2,576	6,441	4,705	2,999	5,397	3,990	4,920	3,578	3,893	2,665	2,513	34,866
MEAN	83.1	215	152	96.7	186	129	164	115	130	86.0	81.1	1,162
MAX	210	1,490	252	124	671	174	418	179	351	227	327	10,200
MIN	53	76	103	77	74	105	110	79	73	48	42	153
CFSM	0.64	1.65	1.17	0.74	1.43	0.99	1.26	0.89	1.00	0.66	0.62	8.94
IN.	0.74	1.84	1.35	0.86	1.54	1.14	1.41	1.02	1.11	0.76	0.72	9.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, @ BY WATER YEAR (WY)

MEAN	96.3	117	138	190	225	273	248	186	136	101	100	98.4
MAX	569	604	385	610	598	740	560	480	387	503	828	1,162
(WY)	(1965)	(1980)	(1962)	(1995)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
MIN	13.7	27.0	35.3	32.3	65.7	45.7	55.6	45.5	17.7	18.2	13.3	13.8
(WY)	(1955)	(1982)	(1989)	(1956)	(1988)	(1988)	(1986)	(1988)	(1988)	(1986)	(2002)	(1954)

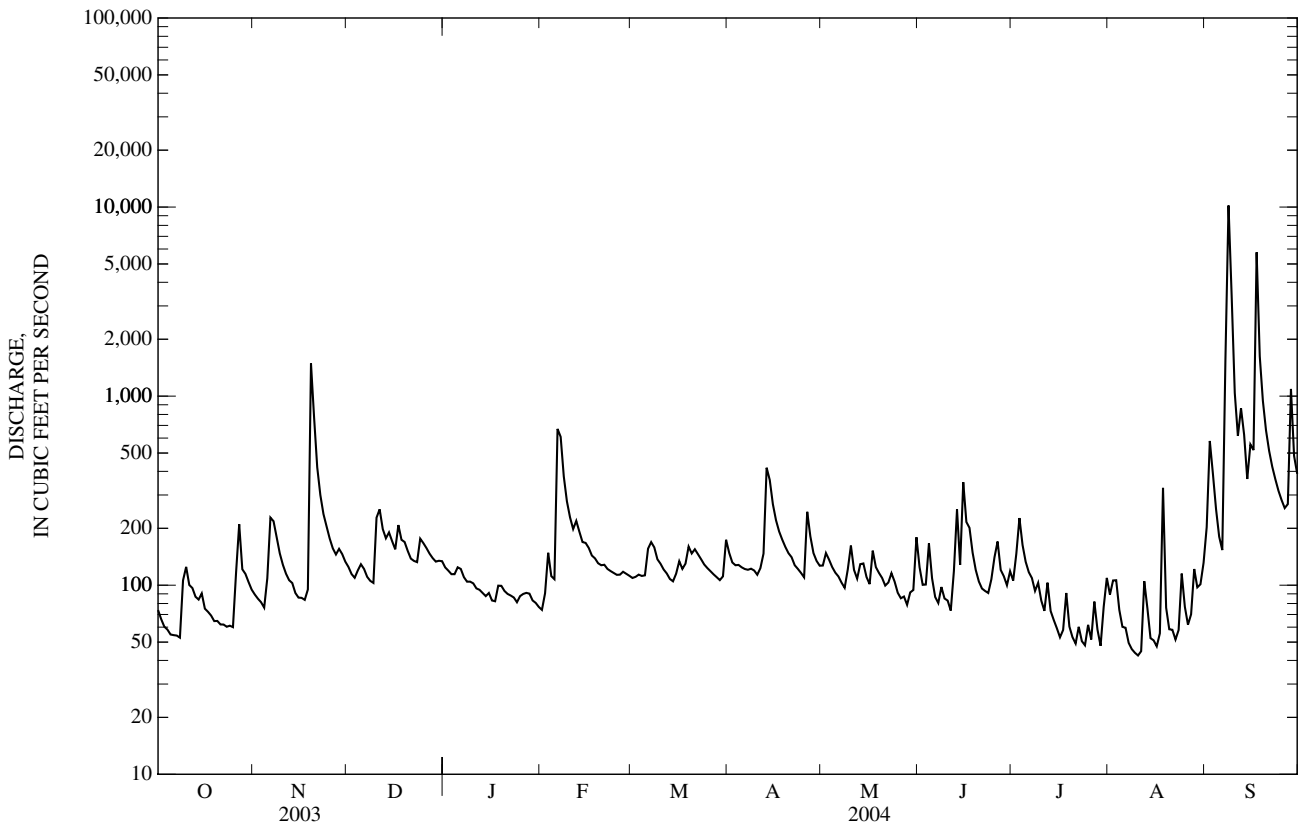
03451000 SWANNANOVA RIVER AT BILTMORE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004 [@]	
ANNUAL TOTAL	75,250		78,543		159	
ANNUAL MEAN	206		215		277	
HIGHEST ANNUAL MEAN					277	1949
LOWEST ANNUAL MEAN					55.9	1988
HIGHEST DAILY MEAN	1,800	May 6	10,200	Sep 8	10,200	Sep 8, 2004
LOWEST DAILY MEAN	48	Sep 21	42	Aug 10	1.2	Oct 14, 1941
ANNUAL SEVEN-DAY MINIMUM	57	Sep 7	50	Aug 5	6.4	Sep 7, 2002
MAXIMUM PEAK FLOW			12,900	Sep 8	18,400*	Aug 13, 1940
MAXIMUM PEAK STAGE			19.22	Sep 8	19.22	Sep 8, 2004
INSTANTANEOUS LOW FLOW			40	Aug 11	1.1*	Oct 9, 1941
ANNUAL RUNOFF (CFSM)	1.59		1.65		1.22	
ANNUAL RUNOFF (INCHES)	21.53		22.48		16.57	
10 PERCENT EXCEEDS	365		272		308	
50 PERCENT EXCEEDS	157		116		104	
90 PERCENT EXCEEDS	69		62		37	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC

LOCATION.--Lat 35°36'32", long 82°34'41", Buncombe County, Hydrologic Unit 06010105, on right bank 27 ft upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 mi downstream of bridge on U.S. Highways 19 and 23, 3.2 mi downstream of Swannanoa River, and at mile 145.8.

DRAINAGE AREA.--945 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1895 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1895-1909, 1901(M), 1914-15(M), 1917(M), 1920-22(M),

GAGE.--Water-stage recorder. Datum of gage is 1,950.28 ft above NGVD of 1929. Sept. 17, 1895, to Dec. 31, 1901, nonrecording gage at present site at different datum. Mar. 19, 1903, to July 15, 1916, and Jan. 1, 1917, to Sept. 30, 1922, nonrecording gage at Smith Bridge 1.5 mi upstream at datum 1961.80 ft. Oct. 1, 1922, to Aug. 9, 1930, nonrecording gage at present site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Many small diversions from tributaries upstream from station for water supply. Diversions by City of Asheville and others from upstream tributaries in the Swannanoa River basin (station 03451000) totaled about 27.4 ft³/s and 34.9 ft³/s was discharged 4 mi downstream from station as treated effluent. Slight diurnal fluctuation and occasional slight regulation at low flow caused by power plant 46 mi upstream and small reservoirs upstream from station. Maximum discharge for period of record, from rating curve extended above 43,000 ft³/s, by logarithmic plotting; maximum gage height, 23.10, from floodmarks. Minimum discharge for period of record also occurred Sept. 14, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft, from studies by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	1615	43,100	14.55	Sep 17	0930	30,100	11.57

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,530	1,430	2,440	2,050	1,430	2,080	2,220	1,650	1,850	2,060	2,640	1,960
2	1,470	1,390	2,250	2,000	1,430	2,060	1,840	1,950	1,470	2,090	2,370	4,550
3	1,410	1,350	2,120	1,960	2,360	2,090	1,700	2,470	1,310	2,310	2,150	4,060
4	1,380	1,320	2,130	1,940	2,660	2,070	1,640	2,070	1,660	2,140	2,000	2,340
5	1,350	1,470	2,570	1,960	2,150	2,030	1,580	1,800	1,610	2,040	1,610	1,730
6	1,320	3,120	2,590	2,080	6,710	2,100	1,530	1,700	1,360	1,730	1,460	1,470
7	1,340	3,450	2,340	1,940	10,100	2,230	1,500	1,610	1,250	1,580	1,280	5,040
8	1,300	2,500	2,150	1,810	8,530	2,100	1,500	1,520	1,250	1,490	1,130	34,700
9	1,560	2,080	2,070	1,810	6,370	1,980	1,490	1,610	1,270	1,400	1,070	33,800
10	1,840	1,850	3,010	1,790	3,780	1,950	1,440	1,720	1,280	1,440	1,000	25,600
11	1,750	1,730	6,130	1,730	3,290	1,900	1,450	1,590	1,390	1,370	998	15,300
12	1,830	1,680	5,650	1,700	3,280	1,840	1,630	1,470	1,210	1,880	1,520	9,710
13	1,640	1,590	3,940	1,660	3,540	1,800	3,690	1,610	2,390	1,660	1,560	6,080
14	1,500	1,480	3,710	1,640	3,120	1,750	4,900	2,290	1,710	1,500	1,220	3,850
15	1,440	1,430	3,670	1,620	2,970	1,790	3,320	2,530	3,270	1,290	1,040	3,790
16	1,380	1,410	3,190	1,590	3,050	1,940	2,590	1,880	4,420	1,130	969	3,550
17	1,340	1,410	3,260	1,560	2,830	1,880	2,290	1,860	3,080	1,070	965	25,300
18	1,310	1,420	3,260	1,600	2,670	1,910	2,100	2,040	2,480	1,450	1,260	24,300
19	1,290	8,850	2,950	1,710	2,580	e2,100	1,970	1,970	1,870	1,250	958	19,900
20	1,260	9,110	2,730	1,600	2,500	e1,900	1,880	1,870	1,600	1,190	944	13,400
21	1,240	8,130	2,550	1,530	2,460	e1,850	1,810	1,870	1,480	1,060	932	9,020
22	1,220	6,730	2,450	1,500	2,360	1,750	1,730	1,820	2,350	1,040	952	6,590
23	1,200	3,550	2,390	1,470	2,260	1,680	1,670	1,960	3,600	1,050	894	4,750
24	1,180	2,920	2,570	1,460	2,220	1,650	1,620	1,860	2,330	985	1,260	4,100
25	1,170	2,950	2,570	1,480	2,200	1,620	1,580	1,700	2,050	1,310	1,120	3,720
26	1,350	2,670	2,370	1,610	2,140	1,600	2,020	1,540	2,960	1,300	1,090	3,460
27	2,810	2,460	2,260	1,600	2,210	1,590	2,380	1,490	2,960	1,810	955	3,350
28	2,540	2,490	2,160	1,650	2,260	1,570	1,950	1,390	2,250	2,650	1,130	11,500
29	1,860	3,060	2,100	1,530	2,150	1,540	1,700	1,390	2,300	1,760	1,390	10,400
30	1,630	2,700	2,120	1,500	---	1,540	1,630	1,440	1,890	1,770	1,390	9,060
31	1,500	---	2,160	1,470	---	2,010	---	1,940	---	2,850	1,500	---
TOTAL	46,940	87,730	87,860	52,550	95,610	57,900	60,350	55,610	61,900	49,655	40,757	306,380
MEAN	1,514	2,924	2,834	1,695	3,297	1,868	2,012	1,794	2,063	1,602	1,315	10,210
MAX	2,810	9,110	6,130	2,080	10,100	2,230	4,900	2,530	4,420	2,850	2,640	34,700
MIN	1,170	1,320	2,070	1,460	1,430	1,540	1,440	1,390	1,210	985	894	1,470
CFSM	1.60	3.09	3.00	1.79	3.49	1.98	2.13	1.90	2.18	1.69	1.39	10.8
IN.	1.85	3.45	3.46	2.07	3.76	2.28	2.38	2.19	2.44	1.95	1.60	12.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2004, BY WATER YEAR (WY)

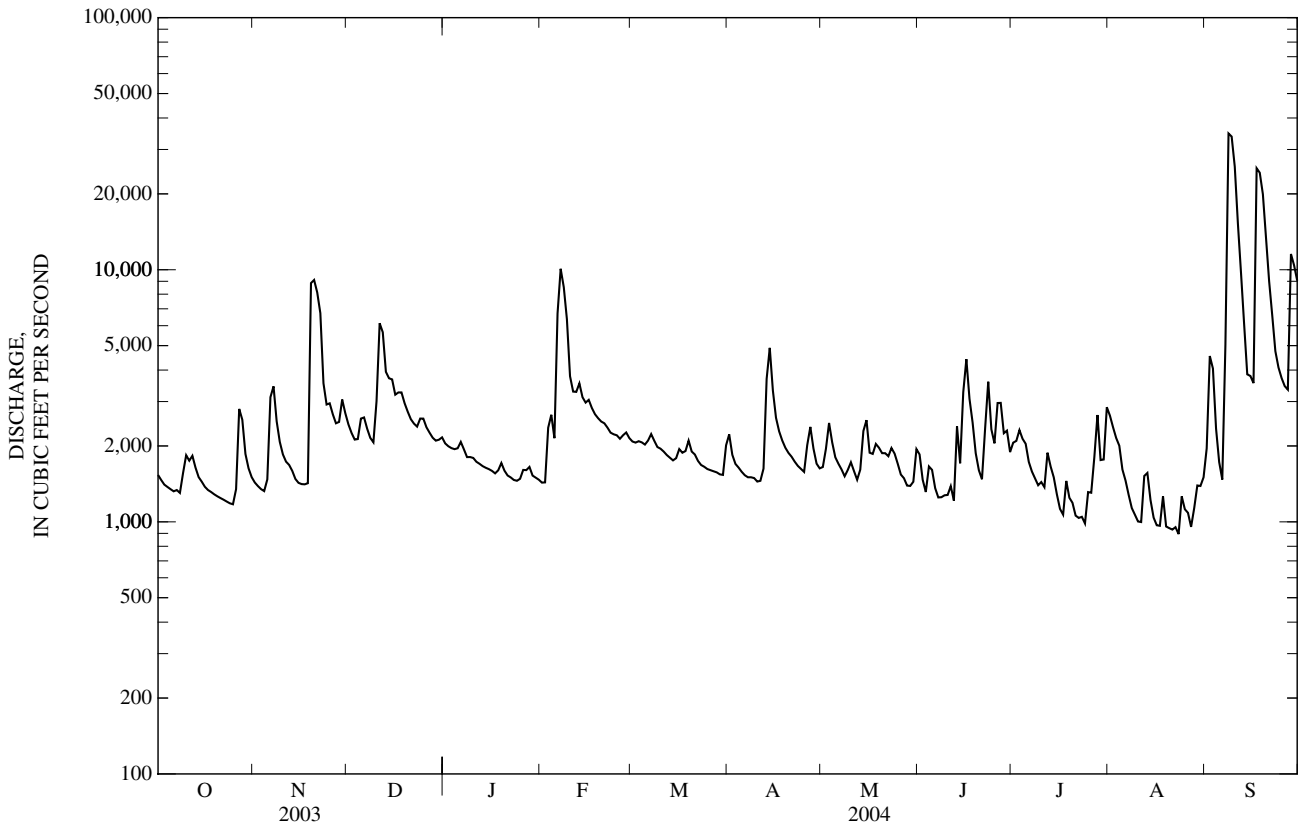
MEAN	1,569	1,627	2,092	2,411	2,663	2,996	2,741	2,190	1,875	1,694	1,676	1,535
MAX	7,025	5,121	5,700	6,068	6,364	7,928	5,705	4,961	5,774	11,500	8,362	10,210
(WY)	(1965)	(1980)	(1915)	(1937)	(1998)	(1899)	(1899)	(1973)	(1909)	(1916)	(1901)	(2004)
MIN	353	507	636	548	1,083	1,037	973	852	547	559	328	346
(WY)	(1955)	(1932)	(1956)	(1956)	(1931)	(1988)	(1986)	(2001)	(1988)	(1986)	(1925)	(1954)

03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1896 - 2004	
ANNUAL TOTAL	996,510		1,003,242			
ANNUAL MEAN	2,730		2,741		2,086	
HIGHEST ANNUAL MEAN					3,671	1901
LOWEST ANNUAL MEAN					1,004	1988
HIGHEST DAILY MEAN	13,500	May 7	34,700	Sep 8	66,000	Jul 16, 1916
LOWEST DAILY MEAN	1,170	Oct 25	894	Aug 23	215	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	1,220	Oct 19	986	Aug 17	246	Sep 7, 2002
MAXIMUM PEAK FLOW			43,100	Sep 8	110000*	Jul 16, 1916
MAXIMUM PEAK STAGE			14.55	Sep 8	23.10*	Jul 16, 1916
INSTANTANEOUS LOW FLOW			867	Aug 23	215*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.89		2.90		2.21	
ANNUAL RUNOFF (INCHES)	39.23		39.49		30.00	
10 PERCENT EXCEEDS	4,390		3,740		3,640	
50 PERCENT EXCEEDS	2,380		1,850		1,630	
90 PERCENT EXCEEDS	1,400		1,270		769	

* See REMARKS.

e Estimated.



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC—Continued

PRECIPITATION RECORDS

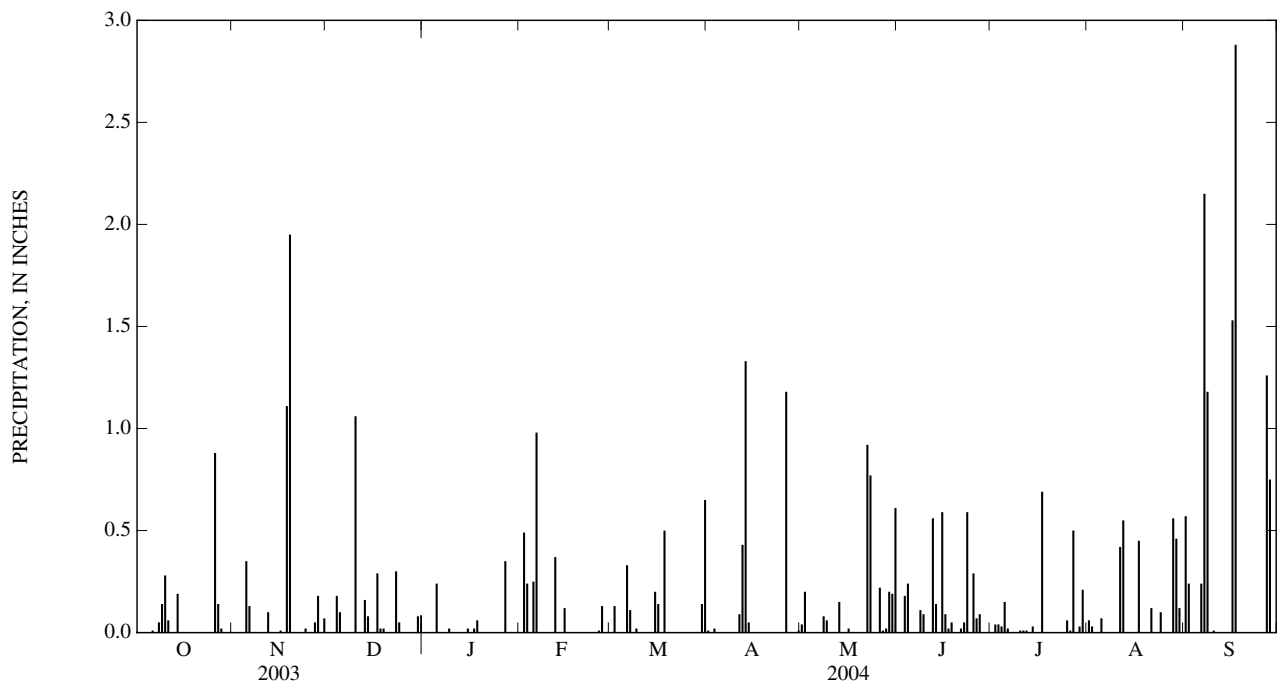
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.06	0.57
2	0.00	0.00	0.00	0.00	0.49	0.13	0.00	0.20	0.00	0.04	0.03	0.24
3	0.00	0.00	0.00	0.00	0.24	0.00	0.02	0.00	0.18	0.04	0.00	0.00
4	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.24	0.03	0.00	0.00
5	0.00	0.35	0.10	0.24	0.25	0.00	0.00	0.00	0.00	0.15	0.07	0.00
6	0.01	0.13	0.00	0.00	0.98	0.33	0.00	0.00	0.00	0.02	0.00	0.24
7	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	2.15
8	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.00	0.00	1.18
9	0.14	0.00	0.00	0.02	0.00	0.02	0.00	0.06	0.09	0.00	0.00	0.00
10	0.28	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
11	0.06	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.01	0.42	0.00
12	0.00	0.10	0.00	0.00	0.37	0.00	0.43	0.00	0.56	0.01	0.55	0.00
13	0.00	0.00	0.16	0.00	0.00	0.00	1.33	0.15	0.14	0.00	0.00	0.00
14	0.19	0.00	0.08	0.00	0.00	0.00	0.05	0.00	0.00	0.03	0.00	0.00
15	0.00	0.00	0.00	0.02	0.12	0.20	0.00	0.00	0.59	0.00	0.00	0.00
16	0.00	0.01	0.00	0.00	0.00	0.14	0.00	0.02	0.09	0.00	0.00	1.53
17	0.00	0.00	0.29	0.02	0.00	0.00	0.00	0.00	0.02	0.69	0.45	2.88
18	0.00	1.11	0.02	0.06	0.00	0.50	0.00	0.00	0.05	0.00	0.00	0.00
19	0.00	1.95	0.02	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.02	0.00	0.12	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.05	0.00	0.00	0.00
23	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.77	0.59	0.00	0.00	0.00
24	0.00	0.02	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.06	0.00	0.00
26	0.88	0.00	0.00	0.00	0.01	0.00	1.18	0.22	0.07	0.01	0.00	0.00
27	0.14	0.05	0.00	0.35	0.13	0.00	0.00	0.01	0.09	0.50	0.00	1.26
28	0.02	0.18	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.56	0.75
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.03	0.46	0.00
30	0.00	0.07	0.08	0.00	---	0.14	0.01	0.19	0.00	0.21	0.12	0.00
31	0.00	---	0.00	0.00	---	0.65	---	0.61	---	0.00	0.00	---
TOTAL	1.77	3.97	2.34	0.71	2.59	---	3.12	3.49	3.18	1.84	2.94	10.81



03451690 NEWFOUND CREEK NEAR ALEXANDER, NC

LOCATION.--Lat 35°39'58", long 82°38'04", Buncombe County, Hydrologic Unit 06010105, on left bank 21 ft downstream from bridge on Secondary Road 1641, 0.9 mi above mouth, and 2.6 mi southwest of Alexander.

DRAINAGE AREA.--34.2 mi².

PERIOD OF RECORD.--December 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,910 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 1,600 ft³/s, which are poor. Maximum discharge for current water year and period of record from rating curve extended above 1,600 ft³/s on basis of slope-area measurement of peak flow. Maximum gage height for current water year and period of record from high-water marks at gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0345	1,320	7.82	Sep 17	0400	17,000	20.60

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	17	16	14	18	23	19	20	16	19	11
2	12	12	16	16	18	20	20	21	16	20	52	18
3	12	12	15	16	37	20	19	19	15	18	36	13
4	12	12	17	16	24	19	18	18	17	17	19	12
5	12	22	17	20	21	19	18	17	14	15	18	11
6	12	17	17	18	182	23	17	17	14	18	17	11
7	12	16	16	16	72	20	17	16	13	18	14	139
8	12	14	16	16	43	20	17	16	14	15	14	500
9	13	13	15	16	35	19	17	21	13	14	13	79
10	e15	13	40	16	30	19	17	18	13	17	13	43
11	e14	13	28	16	27	18	17	16	12	21	46	32
12	e13	13	22	15	35	18	22	16	54	28	45	26
13	e12	13	19	15	32	17	114	17	64	17	21	23
14	e12	12	21	15	29	17	48	17	52	17	17	21
15	13	12	19	15	30	18	34	16	43	15	15	20
16	12	13	18	14	28	22	28	17	34	14	14	108
17	12	13	30	14	26	18	25	16	24	25	14	2,690
18	12	13	23	15	25	30	23	16	22	24	13	182
19	12	254	21	14	24	24	22	16	19	15	13	87
20	12	45	19	14	24	22	21	16	17	13	e13	60
21	12	29	19	14	23	22	20	15	17	13	e37	48
22	12	24	18	14	22	20	19	17	17	13	e40	40
23	12	21	18	14	21	19	19	34	42	13	e27	36
24	12	20	24	14	21	19	18	19	29	13	26	33
25	12	19	19	16	20	18	18	16	45	13	17	30
26	14	18	18	16	20	18	38	16	27	13	13	28
27	20	18	17	17	20	18	24	17	21	22	12	34
28	14	20	17	16	19	18	20	15	20	18	11	241
29	14	18	17	16	19	18	19	17	18	14	11	71
30	13	17	17	15	---	19	18	19	17	14	12	51
31	12	---	16	14	---	30	---	55	---	24	12	---
TOTAL	395	748	606	479	941	620	750	585	743	527	644	4,698
MEAN	12.7	24.9	19.5	15.5	32.4	20.0	25.0	18.9	24.8	17.0	20.8	157
MAX	20	254	40	20	182	30	114	55	64	28	52	2,690
MIN	12	12	15	14	14	17	17	15	12	13	11	11
CFSM	0.37	0.73	0.57	0.45	0.95	0.58	0.73	0.55	0.72	0.50	0.61	4.58
IN.	0.43	0.81	0.66	0.52	1.02	0.67	0.82	0.64	0.81	0.57	0.70	5.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

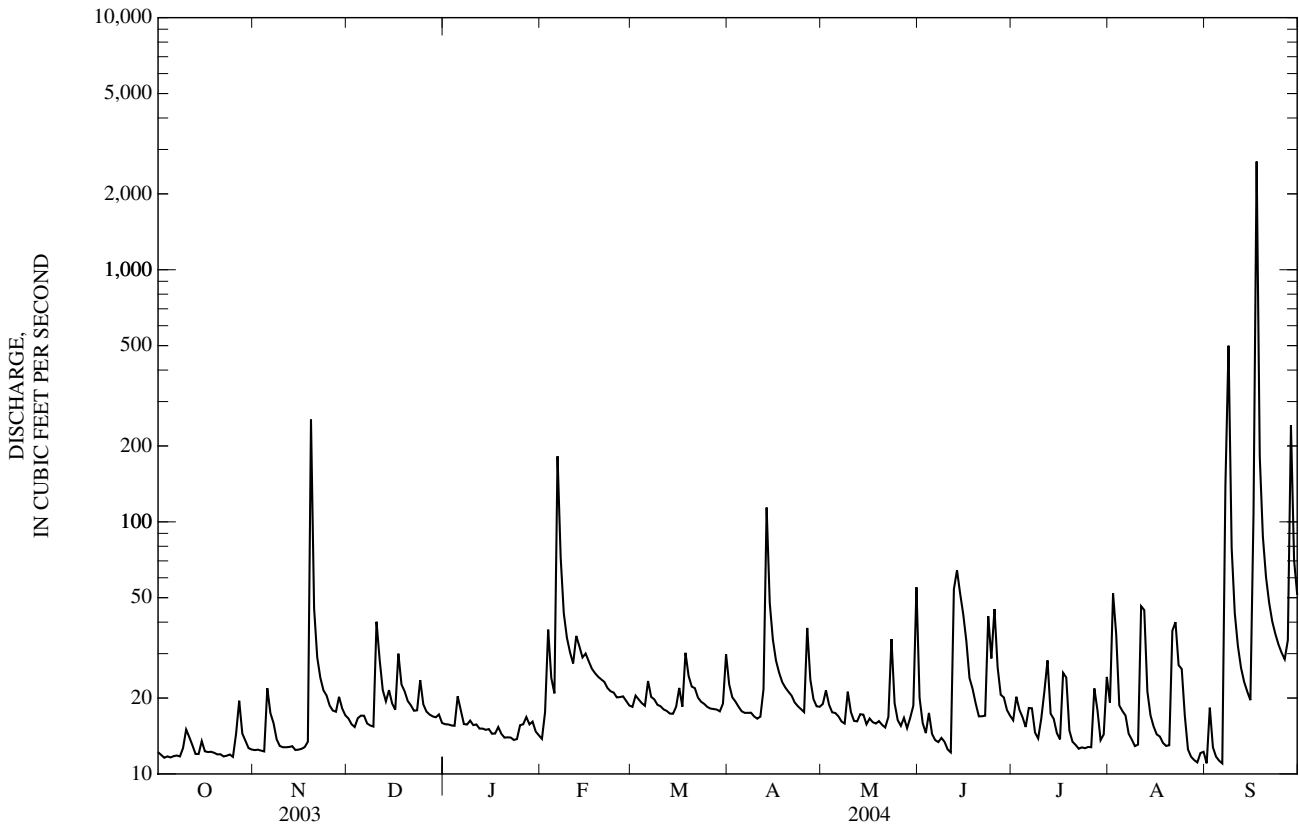
MEAN	8.86	14.6	16.3	15.6	21.9	22.3	23.7	26.3	15.6	14.1	14.0	46.7
MAX	12.7	24.9	26.4	16.6	32.4	34.3	40.7	66.6	24.8	25.1	23.0	157
(WY)	(2004)	(2004)	(2003)	(2002)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)
MIN	6.49	6.39	8.60	14.8	9.30	15.7	12.0	8.46	7.87	6.89	3.38	6.44
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2002)	(2002)

03451690 NEWFOUND CREEK NEAR ALEXANDER, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	9,990.9		11,736		22.7	
ANNUAL MEAN	27.4		32.1		9.50	
HIGHEST ANNUAL MEAN					32.1	2004
LOWEST ANNUAL MEAN					9.50	2002
HIGHEST DAILY MEAN	694	May 6	2,690	Sep 17	2,690	Sep 17, 2004
LOWEST DAILY MEAN	9.9	Sep 21	11	Aug 28	1.8	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	11	Sep 15	12	Aug 26	2.1	Aug 8, 2002
MAXIMUM PEAK FLOW			17,000*	Sep 17	17,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			20.60*	Sep 17	20.60*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			9.7	Sep 6	1.2	Aug 23, 2002
ANNUAL RUNOFF (CFSM)	0.800		0.938		0.663	
ANNUAL RUNOFF (INCHES)	10.87		12.77		9.01	
10 PERCENT EXCEEDS	36		36		33	
50 PERCENT EXCEEDS	18		18		15	
90 PERCENT EXCEEDS	12		12		6.0	

* See REMARKS.

e Estimated.



03453000 IVY RIVER NEAR MARSHALL, NC

LOCATION.--Lat 35°46'10", long 82°37'15", Madison County, Hydrologic Unit 06010105, on right bank 0.2 mi downstream from bridge on U.S. Highway 25-70, 1.9 mi upstream from mouth, and 4.0 mi southeast of Marshall.

DRAINAGE AREA.--158 mi².

PERIOD OF RECORD.--October 1933 to September 1973. July 1, 1994 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,700.41 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REVISED RECORDS.--WSP 803: 1934(M), 1935. WSP 1910: 1936(P), 1937(M), 1940(M), 1946(M), 1957(P).

REMARKS.--No estimated daily discharges. Records good. Considerable low flow regulation, at times, caused by small power plant at Ivy Dam, 0.4 mi upstream. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for current water year also occurred Aug. 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June, 1876, reached a stage of 16.0 ft, from studies by Tennessee Valley Authority (discharge 14,000 ft³/s). An outstanding but lesser flood occurred in July, 1916 (stage and discharge unknown).

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	1015	3,880	9.56	Sep 17	0830	9,310	14.21

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 1994 through 2003.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
1994	Aug. 17, 1994	4,600	10.32	1999	May 8, 1999	2,050	7.24
1995	Jan. 14, 1995	14,100	17.21	2000	Apr. 4, 2000	3,150	8.72
1996	Jan. 27, 1996	10,800	15.25	2001	July 30, 2001	4,140	9.84
1997	Feb. 28, 1997	3,500	9.13	2002	Mar. 17, 2002	6,120	11.73
1998	Jan. 8, 1998	9,920	14.63	2003	May 6, 2003	5,760	11.41

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	56	95	138	95	105	214	197	181	70	64	115
2	63	57	86	132	90	116	205	197	127	72	147	170
3	57	54	82	131	199	134	203	186	106	143	141	134
4	56	53	87	129	184	123	197	163	108	92	78	95
5	54	57	98	195	160	122	181	151	100	90	64	77
6	53	102	96	220	945	226	167	142	86	219	84	67
7	51	127	87	170	788	216	161	130	81	131	57	283
8	49	87	82	155	440	198	158	123	78	91	50	2,330
9	52	74	78	148	323	174	152	119	81	77	47	961
10	55	68	143	135	265	159	138	116	86	62	45	432
11	55	65	237	120	222	143	132	106	80	60	44	268
12	53	63	164	125	238	133	160	105	71	71	113	189
13	51	64	141	110	239	122	1,050	100	73	59	79	147
14	49	57	148	105	218	116	680	113	72	55	58	121
15	58	56	137	101	228	116	444	97	71	51	51	104
16	51	56	123	94	230	157	349	100	80	45	62	96
17	50	56	171	91	201	136	289	153	92	45	48	4,430
18	49	55	154	137	183	286	244	117	71	125	47	1,630
19	48	1,500	154	135	167	334	214	137	64	57	44	652
20	47	463	136	114	156	277	193	110	64	50	42	399
21	47	257	125	111	154	277	180	98	64	45	46	284
22	46	180	136	105	137	227	162	90	80	42	49	215
23	44	145	152	98	128	195	149	133	75	46	43	171
24	45	129	445	97	126	175	141	99	89	42	50	145
25	44	118	325	101	125	158	134	87	95	60	64	128
26	49	104	240	111	116	146	342	81	154	121	46	115
27	135	96	196	114	119	137	364	134	99	278	46	106
28	96	117	170	105	114	128	289	102	86	122	44	333
29	75	119	153	104	108	123	241	94	76	79	59	223
30	65	99	178	101	---	127	214	108	70	75	198	163
31	61	---	152	92	---	210	---	266	---	75	210	---
TOTAL	1,771	4,534	4,771	3,824	6,698	5,296	7,747	3,954	2,660	2,650	2,220	14,583
MEAN	57.1	151	154	123	231	171	258	128	88.7	85.5	71.6	486
MAX	135	1,500	445	220	945	334	1,050	266	181	278	210	4,430
MIN	44	53	78	91	90	105	132	81	64	42	42	67

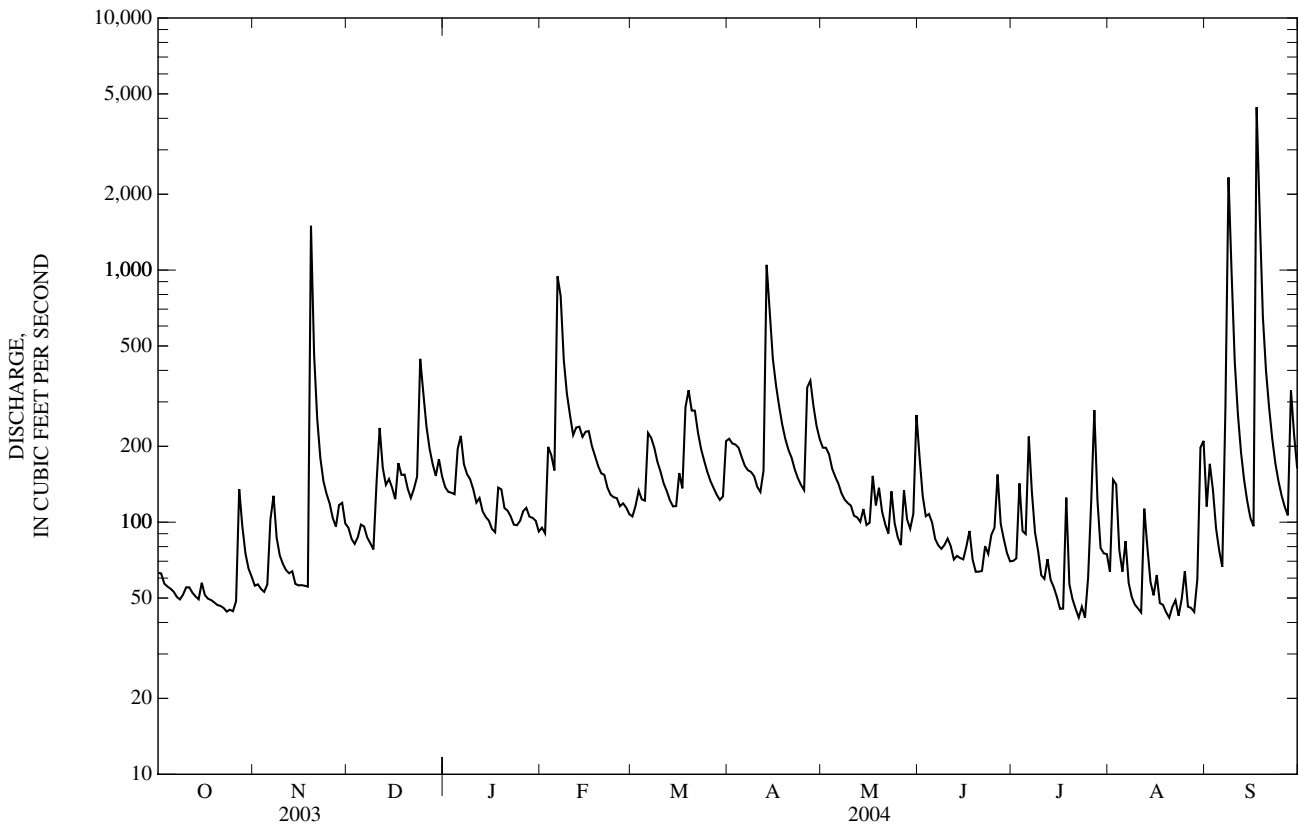
03453000 IVY RIVER NEAR MARSHALL, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, [@] BY WATER YEAR (WY)													
MEAN	75.1	92.9	132	209	261	306	242	159	111	98.1	86.4	68.8	
MAX	367	229	407	636	563	848	574	404	272	280	444	486	
(WY)	(1965)	(1950)	(1962)	(1937)	(1957)	(1963)	(1936)	(2003)	(1950)	(1949)	(1940)	(2004)	
MIN	19.3	28.9	39.8	46.4	60.9	129	76.1	58.6	43.3	29.8	22.8	20.5	
(WY)	(1953)	(1940)	(1940)	(1940)	(1941)	(1970)	(1942)	(1941)	(1953)	(1952)	(1956)	(1998)	
SUMMARY STATISTICS				FOR 2003 CALENDAR YEAR				FOR 2004 WATER YEAR			WATER YEARS 1934 - 2004 [@]		
ANNUAL TOTAL				75,892				60,708			153		
ANNUAL MEAN				208				166			232		
HIGHEST ANNUAL MEAN											92.1		
LOWEST ANNUAL MEAN											1941		
HIGHEST DAILY MEAN				2,610		May 6		4,430		Sep 17		8,010	
LOWEST DAILY MEAN				43		Sep 20		42		Jul 22		8.5	
ANNUAL SEVEN-DAY MINIMUM				46		Oct 19		46		Aug 17		9.8	
MAXIMUM PEAK FLOW								9,310		Sep 17		14,400	
MAXIMUM PEAK STAGE								14.21		Sep 17		17.21	
INSTANTANEOUS LOW FLOW								18*		Oct 10		3.0*	
10 PERCENT EXCEEDS				407				242				300	
50 PERCENT EXCEEDS				146				116				95	
90 PERCENT EXCEEDS				56				51				35	

[@] See PERIOD OF RECORD.

* See REMARKS.



03453500 FRENCH BROAD RIVER AT MARSHALL, NC

LOCATION.--Lat 35°47'11", long 82°39'39", Madison County, Hydrologic Unit 06010105, on right bank 0.7 mi upstream from Hayes Creek, 1.0 mi downstream of Ivy River, 1.5 mi southeast of Marshall, and at mile 126.7.

DRAINAGE AREA.--1,332 mi².

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1436: 1954(M).

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Small diversions from tributaries for water supply. Slight diurnal fluctuation and occasional slight regulation at low flow caused by small reservoirs upstream from station. Prior to July 1963, some regulation by Weaver plant of Carolina Power and Light Company 15 mi upstream, after November 1986 the same power plant was operated by the Metropolitan Sewage Treatment Plant. Minimum discharge for period of record also occurred Sept. 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791: 22.0 ft, July 16, 1916; discharge: 115,000 ft³/s. Flood of Aug. 30, 1940, reached a stage of 16.6 ft; discharge, 70,000 ft³/s, from high water marks, flood profiles, and studies by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	1800	39,100	11.33	Sep 17	0530	48,000	12.72

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,700	1,530	2,640	2,270	1,590	2,120	2,530	1,870	2,220	2,220	3,070	2,400
2	1,630	1,480	2,430	2,190	1,570	2,120	2,130	2,080	1,730	2,370	2,970	4,610
3	1,560	1,430	2,290	2,150	2,650	2,190	1,940	2,610	1,490	2,670	2,670	4,920
4	1,530	1,430	2,270	2,120	3,100	2,140	1,850	2,290	1,750	2,390	2,400	2,940
5	1,500	1,520	2,640	2,260	2,500	2,100	1,780	1,970	1,800	2,300	1,980	2,170
6	e1,480	2,890	2,800	2,430	6,730	2,310	1,710	1,840	1,570	2,130	1,830	1,830
7	e1,490	3,800	2,510	2,240	11,300	2,410	1,670	1,740	1,430	2,000	1,630	4,480
8	e1,450	2,730	2,340	2,080	9,090	2,370	1,650	1,640	1,410	1,770	1,440	32,400
9	e1,690	2,230	2,210	2,060	7,120	2,160	1,640	1,700	1,440	1,600	1,370	30,800
10	1,930	1,990	2,810	2,030	4,390	2,060	1,570	1,840	1,440	1,700	1,320	23,000
11	1,890	1,850	6,390	1,940	3,590	2,040	1,550	1,700	1,530	1,590	1,320	15,000
12	1,910	1,800	6,080	1,880	3,500	1,960	1,770	1,570	1,430	2,150	2,100	10,100
13	1,780	1,740	4,550	1,860	3,920	1,880	4,430	1,630	2,630	1,840	1,970	6,940
14	1,630	1,620	4,000	1,820	3,440	1,820	5,820	2,170	2,090	1,790	1,640	4,390
15	1,590	1,550	4,050	1,810	3,230	1,840	4,490	2,720	3,220	1,540	1,390	4,380
16	1,500	1,540	3,510	1,760	3,310	2,100	3,190	2,060	4,990	1,370	1,330	3,820
17	1,450	1,530	3,620	1,720	3,070	2,030	2,740	2,030	3,430	1,330	1,270	32,400
18	1,410	1,520	3,640	1,800	2,840	2,320	2,470	2,170	2,790	1,840	1,610	23,400
19	1,390	8,920	3,310	1,930	2,680	2,370	2,280	2,100	2,080	1,570	1,280	18,600
20	1,370	9,580	3,030	1,810	2,600	2,140	2,140	1,970	1,770	1,430	1,270	13,600
21	1,340	8,200	2,780	1,700	2,560	2,130	2,050	1,960	1,660	1,320	1,280	9,600
22	1,330	7,050	2,680	1,670	2,460	2,020	1,940	1,870	2,310	1,260	1,280	7,370
23	1,300	4,240	2,650	1,630	2,340	1,900	1,850	2,320	4,030	1,310	1,200	5,540
24	1,280	3,230	3,240	1,620	2,290	1,830	1,780	2,050	2,710	1,250	1,510	4,750
25	1,270	3,160	3,090	1,660	2,280	1,770	1,730	1,820	2,400	1,490	1,570	4,310
26	1,370	2,930	2,760	1,770	2,190	1,730	2,430	1,630	3,350	1,590	1,410	3,970
27	2,760	2,650	2,570	1,820	2,250	1,700	2,920	1,660	3,290	2,400	1,290	3,760
28	2,810	2,660	2,450	1,840	2,300	1,670	2,400	1,530	2,480	3,060	1,380	11,500
29	2,030	3,220	2,370	1,720	2,200	1,630	2,030	1,470	2,470	2,200	1,710	10,700
30	1,740	2,970	2,410	1,680	---	1,630	1,890	1,620	2,080	1,930	2,030	9,340
31	1,600	---	2,430	1,640	---	2,150	---	2,530	---	3,040	1,870	---
TOTAL	50,710	92,990	96,550	58,910	103,090	62,640	70,370	60,160	69,020	58,450	52,390	313,020
MEAN	1,636	3,100	3,115	1,900	3,555	2,021	2,346	1,941	2,301	1,885	1,690	10,430
MAX	2,810	9,580	6,390	2,430	11,300	2,410	5,820	2,720	4,990	3,060	3,070	32,400
MIN	1,270	1,430	2,210	1,620	1,570	1,630	1,550	1,470	1,410	1,250	1,200	1,830
CFSM	1.23	2.33	2.34	1.43	2.67	1.52	1.76	1.46	1.73	1.42	1.27	7.83
IN.	1.42	2.60	2.70	1.65	2.88	1.75	1.97	1.68	1.93	1.63	1.46	8.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

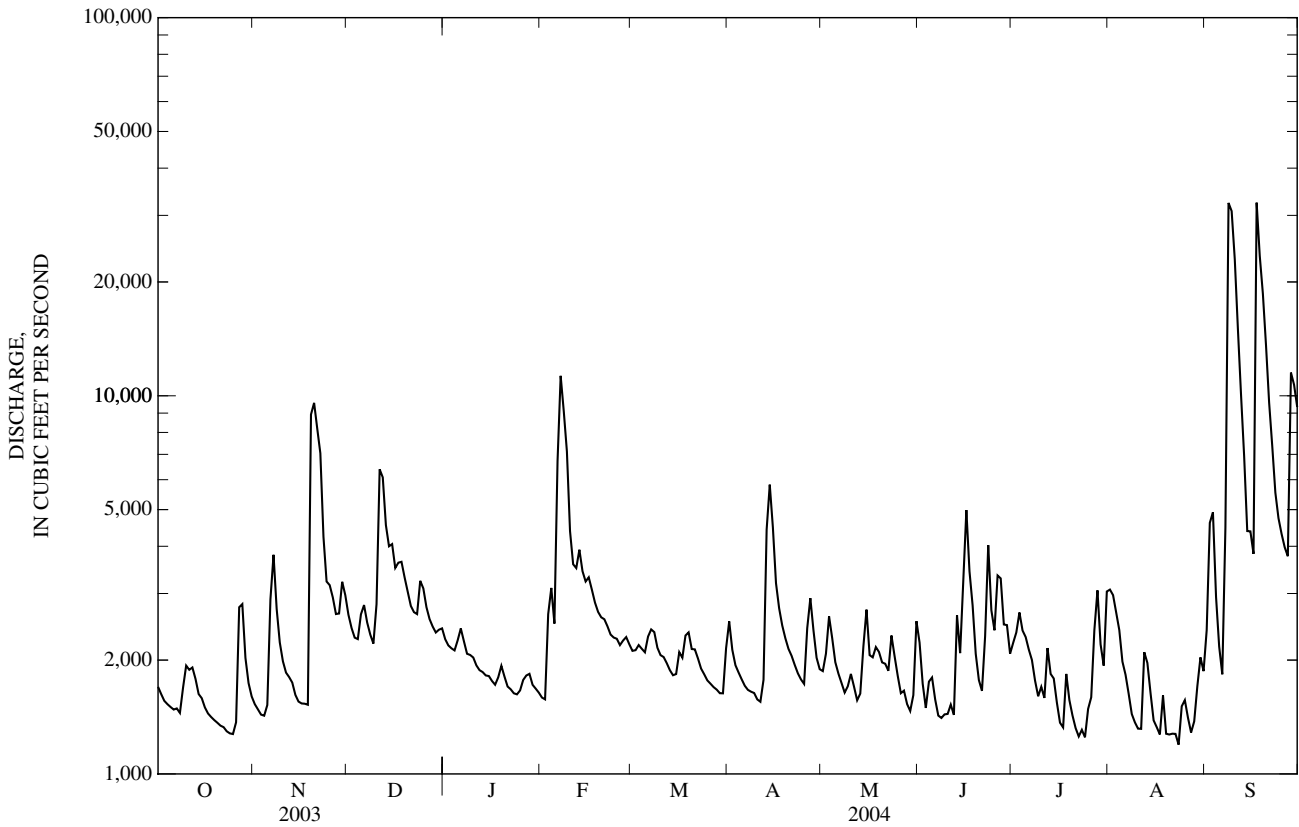
MEAN	1,742	2,009	2,412	2,872	3,313	3,703	3,378	2,673	2,171	1,763	1,753	1,677
MAX	8,172	5,640	5,465	6,279	7,373	7,170	6,149	5,585	4,191	5,071	4,905	10,430
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1975)	(1983)	(2003)	(1989)	(1949)	(1994)	(2004)
MIN	450	651	778	715	1,547	1,235	1,191	1,066	700	708	577	384
(WY)	(1955)	(1955)	(1956)	(1956)	(2002)	(1988)	(1986)	(1988)	(1988)	(1986)	(2002)	(1954)

03453500 FRENCH BROAD RIVER AT MARSHALL, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1943 - 2004	
ANNUAL TOTAL	1,173,730		1,088,300			
ANNUAL MEAN	3,216		2,973		2,451	
HIGHEST ANNUAL MEAN					3,573 1949	
LOWEST ANNUAL MEAN					1,229 1988	
HIGHEST DAILY MEAN	17,500	May 6	32,400	Sep 8	32,400	Sep 8, 2004
LOWEST DAILY MEAN	1,270	Oct 25	1,200	Aug 23	292	Sep 27, 1954
ANNUAL SEVEN-DAY MINIMUM	1,320	Oct 20	1,310	Aug 17	313	Sep 24, 1954
MAXIMUM PEAK FLOW			48,000	Sep 17	54,000	Nov 6, 1977
MAXIMUM PEAK STAGE			12.72	Sep 17	13.64	Nov 6, 1977
INSTANTANEOUS LOW FLOW			845	Aug 15	193*	Sep 13, 1954
ANNUAL RUNOFF (CFSM)	2.41		2.23		1.84	
ANNUAL RUNOFF (INCHES)	32.78		30.39		25.00	
10 PERCENT EXCEEDS	5,390		4,390		4,370	
50 PERCENT EXCEEDS	2,760		2,070		1,950	
90 PERCENT EXCEEDS	1,560		1,440		893	

* See REMARKS.

e Estimated.



03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC

LOCATION.--Lat 35°23'46", long 82°56'16", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft upstream from Big Creek, 1.1 mi upstream from Lake Logan, 6.7 mi southeast of Hazelwood, and at mile 9.3.

DRAINAGE AREA.--27.6 mi².

PERIOD OF RECORD.--February 1954 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for current water year and period of record from high-water mark. Maximum discharge for current water year and period of record from rating curve extended above 7,500 ft³/s on basis of slope area measurement of peak flow. Minimum discharge for period of record also occurred Sept. 30, 1954. Minimum discharge for current water year also occurred Oct. 8, 25, 26.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0000	7,600	9.23	Sep 17	0100	12,700	10.83

REVISIONS.--The maximum discharge for the water year 1994 has been revised to 5,900 ft³/s, Aug. 17, 1994, gage height 8.25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	46	102	74	55	71	65	77	53	74	128	55
2	39	45	93	72	77	132	61	163	47	62	102	169
3	37	43	88	71	110	113	61	107	44	91	91	72
4	36	42	100	69	75	94	61	88	45	78	76	57
5	35	158	102	122	74	89	56	81	42	62	76	50
6	34	263	86	93	710	229	55	76	40	63	71	59
7	34	114	79	76	235	130	54	71	40	51	61	2,620
8	39	88	76	76	158	107	53	69	42	46	56	2,910
9	64	76	74	74	135	99	51	101	43	46	53	761
10	83	69	441	68	122	94	49	77	41	55	51	508
11	89	64	178	75	109	88	50	67	37	70	48	411
12	60	60	133	64	134	83	69	67	44	72	57	346
13	50	58	122	62	110	79	405	242	43	71	53	304
14	50	53	177	60	101	75	133	127	41	52	47	273
15	55	52	131	59	102	88	103	91	126	46	45	251
16	46	49	116	56	95	107	92	83	75	42	42	925
17	43	49	140	56	90	85	84	90	48	50	40	2,640
18	42	181	112	105	84	88	78	78	43	57	39	703
19	40	1,610	104	70	81	85	73	73	39	42	38	478
20	38	279	95	62	80	80	69	88	37	39	43	374
21	38	197	e91	59	101	88	66	69	43	37	48	310
22	36	160	89	56	80	75	63	66	51	38	38	263
23	36	135	88	55	77	71	60	62	48	38	37	234
24	35	147	165	54	76	70	59	59	45	38	47	209
25	34	121	101	70	74	67	57	55	98	200	43	189
26	119	106	92	87	72	66	162	53	98	117	38	172
27	141	108	87	74	72	64	94	51	62	184	36	330
28	71	191	83	60	69	61	76	49	62	78	80	1,010
29	58	127	80	72	69	60	71	47	52	110	73	319
30	52	111	95	57	---	67	70	64	69	440	54	257
31	49	---	78	56	---	73	---	86	---	178	62	---
TOTAL	1,623	4,802	3,598	2,164	3,427	2,778	2,500	2,577	1,598	2,627	1,773	17,259
MEAN	52.4	160	116	69.8	118	89.6	83.3	83.1	53.3	84.7	57.2	575
MAX	141	1,610	441	122	710	229	405	242	126	440	128	2,910
MIN	34	42	74	54	55	60	49	47	37	37	36	50
CFSM	1.90	5.80	4.21	2.53	4.28	3.25	3.02	3.01	1.93	3.07	2.07	20.8
IN.	2.19	6.47	4.85	2.92	4.62	3.74	3.37	3.47	2.15	3.54	2.39	23.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

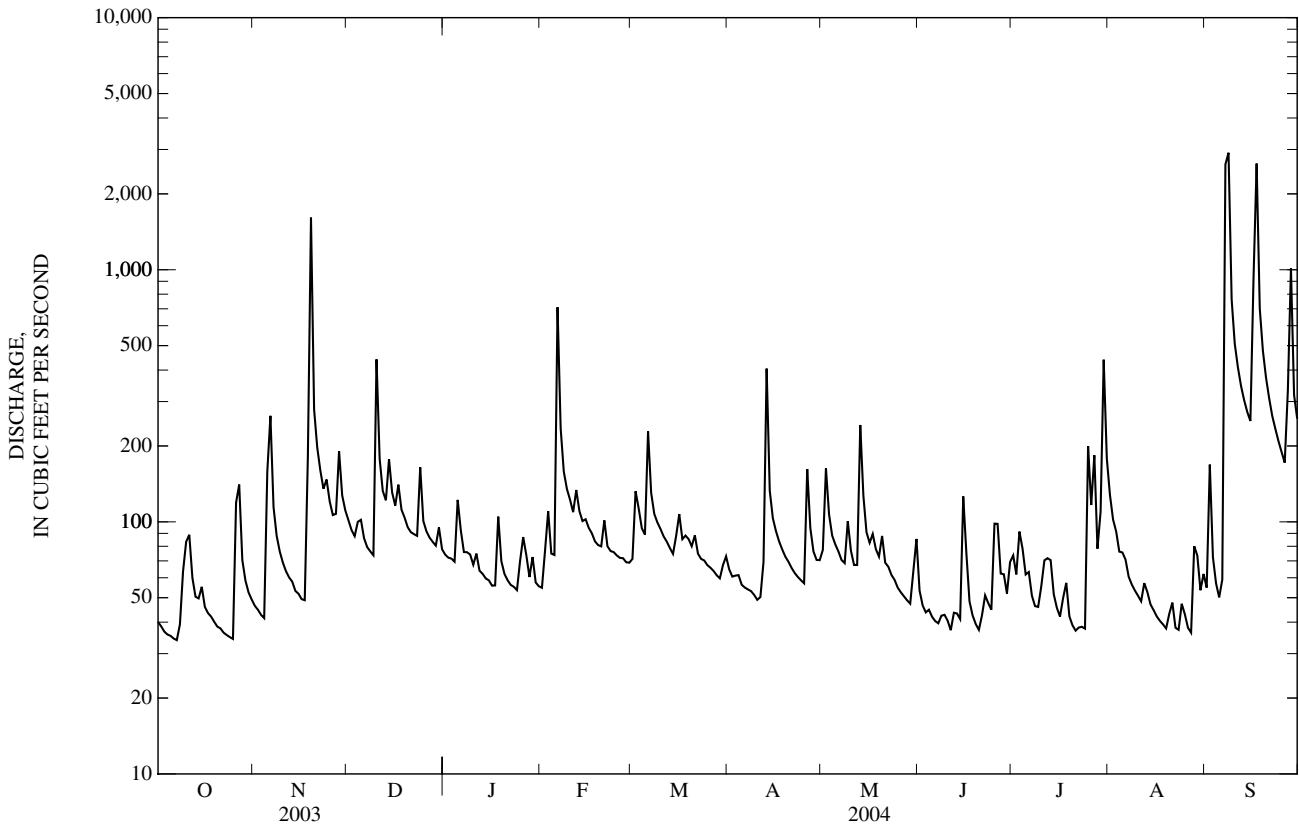
	71.1	89.7	109	126	152	162	141	108	81.4	58.7	57.4	66.9
MEAN	71.1	89.7	109	126	152	162	141	108	81.4	58.7	57.4	66.9
MAX	229	301	234	272	355	312	291	289	213	207	187	575
(WY)	(1965)	(1980)	(1962)	(1998)	(1966)	(1975)	(1983)	(1976)	(1967)	(1967)	(1994)	(2004)
MIN	13.5	26.8	29.7	34.0	68.7	53.8	47.8	49.2	30.8	23.3	16.4	13.0
(WY)	(1955)	(1979)	(1966)	(1981)	(1968)	(1988)	(1986)	(2001)	(1988)	(1993)	(1998)	(1954)

03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	41,974		46,726			
ANNUAL MEAN	115		128		102	
HIGHEST ANNUAL MEAN					143	1979
LOWEST ANNUAL MEAN					59.6	1986
HIGHEST DAILY MEAN	1,610	Nov 19	2,910	Sep 8	4,500	Feb 13, 1966
LOWEST DAILY MEAN	26	Sep 21	34	Oct 6	10	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	31	Sep 8	36	Oct 2	11	Sep 11, 1998
MAXIMUM PEAK FLOW			12,700*	Sep 17	12,700*	Sep 17, 2004
MAXIMUM PEAK STAGE			10.83*	Sep 17	10.83*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			33*	Oct 7	9.4*	Sep 29, 1954
ANNUAL RUNOFF (CFSM)	4.17		4.63		3.70	
ANNUAL RUNOFF (INCHES)	56.57		62.98		50.25	
10 PERCENT EXCEEDS	192		186		186	
50 PERCENT EXCEEDS	88		72		70	
90 PERCENT EXCEEDS	39		42		26	

* See REMARKS.

e Estimated.



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC

LOCATION.--Lat 35°25'17", long 82°55'27", Haywood County, Hydrologic Unit 06010106, at Lake Logan Dam on West Fork Pigeon River near Hazelwood, and at river mi 7.0.

DRAINAGE AREA.--33.3 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1997 to current year. Records for October 1986 to January 1991 and November 1995 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is 2,856.23 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records good. Total capacity is 1,040 ft³/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330).

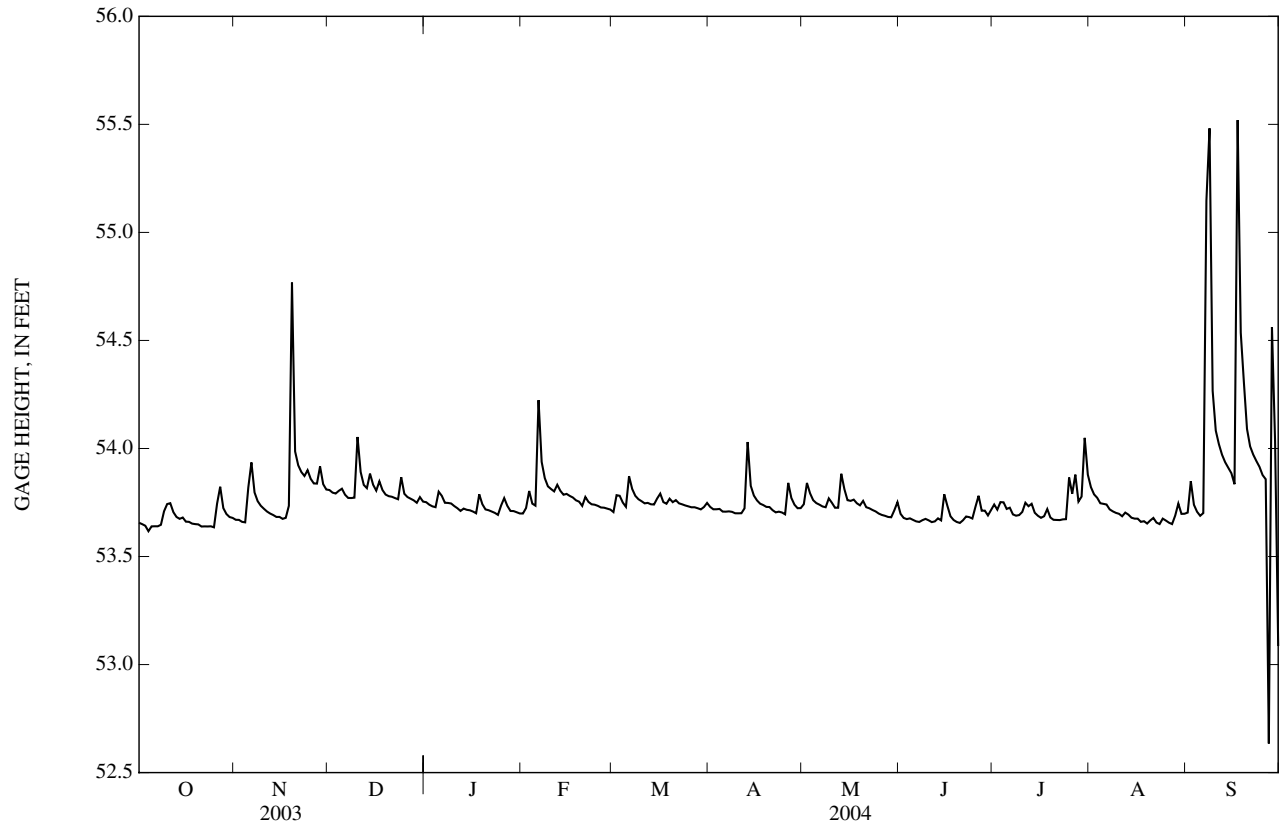
EXTREMES FOR PERIOD OF RECORD.--Maximum, 58.60 ft, Sept. 17, 2004; minimum, 46.42 ft, Sept. 21, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum, 58.60 ft, Sept. 17; minimum, 50.43 ft, Sept. 27.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.66	53.67	53.81	53.75	53.70	53.71	53.73	53.74	53.70	53.74	53.82	53.70
2	53.65	53.67	53.80	53.74	53.72	53.78	53.72	53.84	53.68	53.72	53.79	53.85
3	53.64	53.66	53.79	53.73	53.80	53.78	53.72	53.79	53.67	53.75	53.77	53.74
4	53.62	53.66	53.80	53.73	53.74	53.75	53.72	53.76	53.68	53.75	53.75	53.71
5	53.64	53.82	53.81	53.80	53.74	53.73	53.71	53.75	53.67	53.72	53.74	53.69
6	53.64	53.94	53.79	53.78	54.22	53.87	53.71	53.74	53.66	53.73	53.74	53.70
7	53.64	53.80	53.77	53.75	53.94	53.81	53.71	53.73	53.66	53.69	53.72	55.15
8	53.65	53.76	53.77	53.75	53.86	53.78	53.71	53.73	53.67	53.69	53.71	55.48
9	53.71	53.73	53.77	53.75	53.82	53.77	53.70	53.77	53.67	53.69	53.70	54.27
10	53.74	53.72	54.05	53.73	53.81	53.76	53.70	53.75	53.67	53.71	53.70	54.08
11	53.75	53.71	53.89	53.72	53.80	53.75	53.70	53.73	53.66	53.75	53.69	54.02
12	53.71	53.70	53.83	53.71	53.83	53.75	53.72	53.73	53.66	53.73	53.70	53.97
13	53.68	53.69	53.82	53.72	53.80	53.74	54.03	53.88	53.68	53.74	53.69	53.94
14	53.67	53.68	53.88	53.72	53.79	53.74	53.83	53.81	53.67	53.70	53.68	53.91
15	53.68	53.68	53.83	53.71	53.79	53.77	53.78	53.76	53.79	53.69	53.68	53.89
16	53.66	53.67	53.81	53.71	53.78	53.79	53.76	53.76	53.73	53.68	53.68	53.83
17	53.66	53.68	53.85	53.70	53.77	53.75	53.74	53.76	53.69	53.69	53.66	55.52
18	53.65	53.73	53.81	53.79	53.76	53.74	53.74	53.75	53.67	53.72	53.66	54.54
19	53.65	54.77	53.79	53.74	53.75	53.77	53.73	53.74	53.66	53.68	53.65	54.31
20	53.65	53.99	53.78	53.72	53.73	53.75	53.73	53.76	53.66	53.67	53.67	54.09
21	53.64	53.92	53.78	53.71	53.78	53.76	53.71	53.73	53.67	53.67	53.68	54.01
22	53.64	53.89	53.77	53.71	53.75	53.75	53.70	53.72	53.69	53.67	53.66	53.97
23	53.64	53.87	53.77	53.70	53.74	53.74	53.71	53.72	53.68	53.67	53.65	53.94
24	53.64	53.90	53.87	53.69	53.74	53.74	53.70	53.71	53.68	53.67	53.68	53.92
25	53.64	53.86	53.79	53.74	53.73	53.73	53.70	53.70	53.73	53.87	53.67	53.88
26	53.74	53.84	53.78	53.77	53.73	53.73	53.84	53.69	53.78	53.79	53.66	53.86
27	53.82	53.84	53.77	53.73	53.73	53.73	53.77	53.69	53.71	53.88	53.65	52.63
28	53.72	53.92	53.76	53.71	53.72	53.72	53.74	53.68	53.71	53.75	53.69	54.56
29	53.70	53.83	53.75	53.71	53.72	53.72	53.72	53.68	53.69	53.78	53.75	54.03
30	53.68	53.81	53.78	53.70	---	53.73	53.72	53.71	53.72	54.05	53.70	53.09
31	53.68	---	53.75	53.70	---	53.75	---	53.75	---	53.88	53.70	---
MEAN	53.67	53.81	53.81	53.73	53.79	53.75	53.74	53.74	53.69	53.74	53.70	54.04
MAX	53.82	54.77	54.05	53.80	54.22	53.87	54.03	53.88	53.79	54.05	53.82	55.52
MIN	53.62	53.66	53.75	53.69	53.70	53.71	53.70	53.68	53.66	53.67	53.65	52.63

03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC—Continued



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC—Continued

PRECIPITATION RECORDS

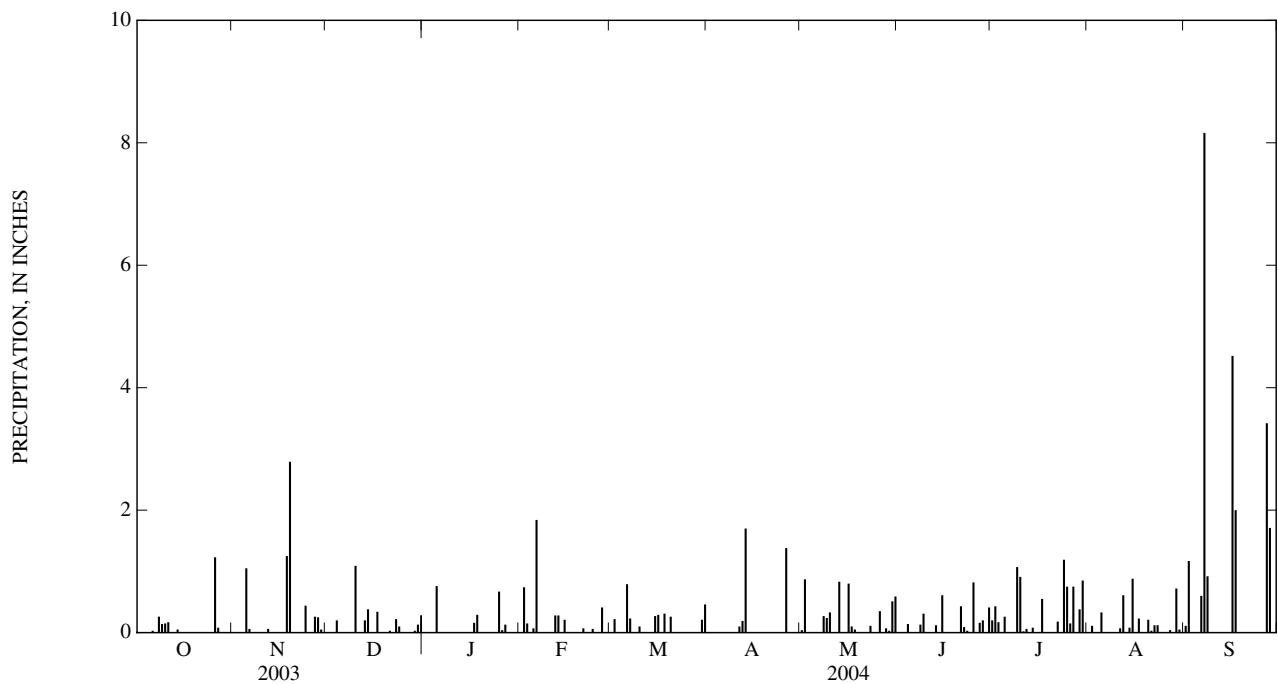
PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.20	0.00	0.11
2	0.00	0.00	0.00	0.00	0.74	0.22	0.00	0.87	0.00	0.43	0.11	1.17
3	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.01	0.17	0.00	0.00
4	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.14	0.01	0.00	0.00
5	0.00	1.05	0.00	0.76	0.07	0.00	0.00	0.00	0.00	0.26	0.33	0.00
6	0.03	0.06	0.00	0.00	1.84	0.79	0.00	0.00	0.00	0.00	0.01	0.60
7	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	8.16
8	0.26	0.01	0.00	0.00	0.00	0.01	0.00	0.27	0.13	0.00	0.00	0.92
9	0.14	0.00	0.00	0.00	0.00	0.01	0.00	0.24	0.31	1.07	0.00	0.00
10	0.15	0.00	1.09	0.00	0.00	0.10	0.00	0.33	0.01	0.91	0.00	0.00
11	0.17	0.00	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.02	0.07	0.00
12	0.00	0.06	0.00	0.00	0.28	0.00	0.19	0.01	0.00	0.06	0.61	0.00
13	0.00	0.00	0.20	0.00	0.28	0.00	1.70	0.83	0.12	0.00	0.00	0.00
14	0.05	0.00	0.38	0.00	0.00	0.00	0.01	0.00	0.01	0.08	0.08	0.00
15	0.00	0.00	0.00	0.00	0.21	0.27	0.00	0.00	0.61	0.00	0.88	0.00
16	0.00	0.00	0.00	0.00	0.01	0.29	0.00	0.80	0.01	0.00	0.00	4.52
17	0.00	0.00	0.34	0.16	0.00	0.00	0.00	0.10	0.00	0.55	0.23	2.00
18	0.00	1.25	0.00	0.29	0.00	0.31	0.00	0.05	0.00	0.00	0.01	0.00
19	0.00	2.79	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.21	0.00
21	0.00	0.00	0.03	0.00	0.07	0.00	0.00	0.01	0.43	0.00	0.03	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.18	0.12	0.00
23	0.00	0.00	0.22	0.00	0.01	0.00	0.00	0.11	0.03	0.00	0.12	0.00
24	0.00	0.44	0.10	0.00	0.06	0.00	0.00	0.00	0.01	1.19	0.01	0.00
25	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.82	0.75	0.00	0.00
26	1.23	0.00	0.00	0.04	0.00	0.00	1.38	0.35	0.01	0.15	0.00	0.00
27	0.08	0.26	0.00	0.13	0.41	0.00	0.01	0.00	0.16	0.75	0.04	3.42
28	0.01	0.25	0.00	0.00	0.00	0.00	0.00	0.07	0.20	0.00	0.01	1.71
29	0.01	0.05	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.38	0.72	0.00
30	0.00	0.00	0.13	0.00	---	0.21	0.00	0.51	0.41	0.85	0.05	0.00
31	0.00	---	0.00	0.00	---	0.46	---	0.59	---	0.00	0.00	---
TOTAL	2.13	6.22	2.73	2.06	4.13	3.16	3.40	5.23	3.51	8.01	3.64	22.61



0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC

LOCATION.--Lat 35°25'36", long 82°55'11", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on State Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi².

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,839 ft above NGVD of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some low flow regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for current water year and period of record from rating curve extended above 4,000 ft³/s on basis of computation of peak flow over dam at Lake Logan. Maximum gage-height for current water year and period of record from high-water mark at gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0015	10,400	12.13	Sep 17	0130	15,600	14.15

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 1990, 1991, 1992, 1993, 1994, and 1996.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
1990	Feb. 16, 1990	4,360	6.73	1993	Nov. 22, 1992	2,820	5.44
1991	Mar. 29, 1991	4,060	6.48	1994	Aug. 17, 1994	7,020	8.97
1992	Nov. 22, 1991	3,590	6.08	1996	Oct. 10, 1995	6,560	8.58

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	62	123	91	61	83	76	87	67	88	151	59
2	43	60	112	89	79	147	69	187	55	72	120	184
3	41	57	107	88	143	143	68	126	50	98	108	80
4	40	55	117	87	90	110	71	102	52	93	89	58
5	39	195	124	148	85	109	62	94	47	69	86	49
6	39	328	102	118	830	275	61	87	45	71	85	55
7	38	154	93	93	299	160	60	81	44	55	69	3,030
8	42	117	93	93	193	130	58	78	47	48	63	3,630
9	77	100	94	92	161	120	57	111	49	52	59	869
10	104	91	533	81	144	112	54	93	46	59	56	629
11	106	85	242	78	128	105	56	76	41	89	52	538
12	77	81	172	76	167	99	76	76	44	75	64	469
13	62	77	152	74	140	94	477	278	51	82	59	425
14	59	69	228	72	127	90	160	181	45	55	50	400
15	67	68	169	70	129	102	120	122	144	46	48	380
16	55	65	149	66	118	129	106	117	88	42	48	924
17	52	64	176	66	113	101	95	122	54	47	41	3,570
18	49	137	143	124	104	105	89	107	45	66	42	e900
19	47	1,940	130	86	101	103	83	98	41	43	36	e620
20	45	352	116	70	101	95	79	117	38	38	43	e480
21	44	237	112	70	124	106	75	93	45	35	48	e400
22	42	194	109	67	100	88	71	89	54	37	37	e340
23	40	166	107	62	94	84	67	81	53	39	34	e300
24	40	204	201	62	93	83	65	77	48	39	46	e280
25	39	156	124	85	90	80	63	71	99	236	42	e250
26	140	133	113	108	88	78	186	68	124	134	35	e220
27	193	131	106	92	85	74	113	65	70	227	32	e420
28	99	255	102	72	80	73	88	59	71	94	64	e1,400
29	80	165	102	72	82	69	81	57	57	119	91	e550
30	71	138	115	69	---	76	80	78	72	484	58	e450
31	66	---	96	63	---	86	---	108	---	217	58	---
TOTAL	1,982	5,936	4,462	2,584	4,149	3,309	2,866	3,186	1,786	2,949	1,914	21,959
MEAN	63.9	198	144	83.4	143	107	95.5	103	59.5	95.1	61.7	732
MAX	193	1,940	533	148	830	275	477	278	144	484	151	3,630
MIN	38	55	93	62	61	69	54	57	38	35	32	49

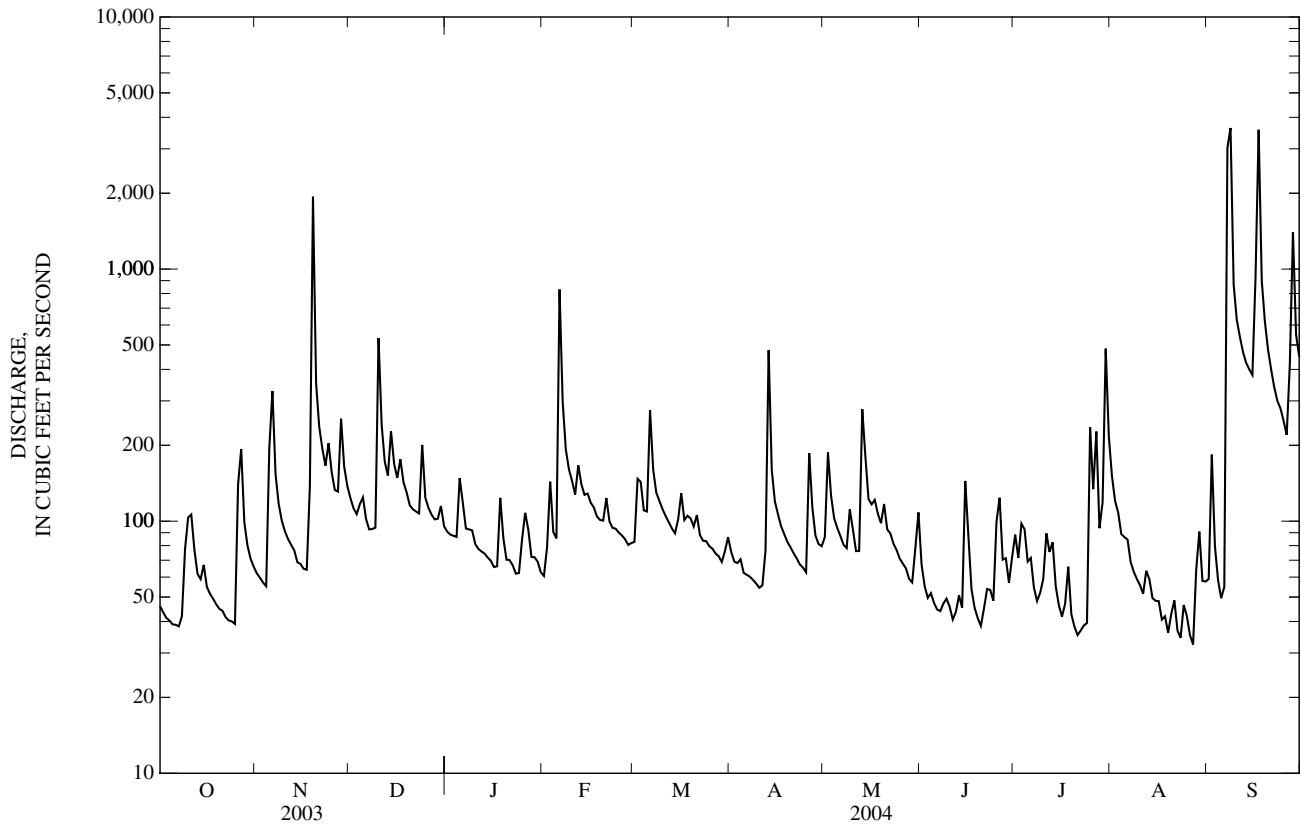
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	81.3	106	119	166	186	191	151	120	94.1	67.7	73.6	104					
MAX	262	265	239	314	360	309	268	244	210	209	220	732					
(WY)	(1996)	(1993)	(1993)	(1996)	(1990)	(1990)	(1994)	(2003)	(1989)	(1989)	(1994)	(2004)					
MIN	18.5	34.7	52.1	83.4	81.1	62.6	72.2	48.1	40.0	31.3	24.7	17.3					
(WY)	(1999)	(1999)	(1989)	(2004)	(2002)	(1988)	(1995)	(2001)	(1988)	(1993)	(1998)	(1998)					

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	50,545		57,082		123	
ANNUAL MEAN	138		156		69.4	
HIGHEST ANNUAL MEAN					157	1996
LOWEST ANNUAL MEAN					69.4	2001
HIGHEST DAILY MEAN	1,940	Nov 19	3,630	Sep 8	3,630	Sep 8, 2004
LOWEST DAILY MEAN	25	Sep 20	32	Aug 27	15	Sep 27, 1998
ANNUAL SEVEN-DAY MINIMUM	31	Sep 8	39	Aug 21	16	Sep 11, 1998
MAXIMUM PEAK FLOW			15,600*	Sep 17	15,600*	Sep 17, 2004
MAXIMUM PEAK STAGE			14.15*	Sep 17	14.15*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			20	Mar 18	12	Jul 19, 2001
10 PERCENT EXCEEDS	245		236		231	
50 PERCENT EXCEEDS	100		87		84	
90 PERCENT EXCEEDS	43		45		30	

* See REMARKS.
e Estimated.



03456100 WEST FORK PIGEON RIVER AT BETHEL, NC

LOCATION.--Lat 35°27'48", long 82°53'59", Haywood County, Hydrologic Unit 06010106, on left bank 20 ft downstream of bridge on Secondary Road 1112, 0.6 mi southwest of Bethel, 1.6 mi upstream from confluence with East Fork Pigeon River, and 5.6 mi downstream of Lake Logan.

DRAINAGE AREA.--58.4 mi².

PERIOD OF RECORD.--January 1981 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,667.78 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for current water year and period of record from rating curve extended above 7,000 ft³/s on basis of slope-area measurement of peak flow. Maximum gage height for current water year and period of record from high-water mark in gage. Minimum discharge for current water year also occurred Oct. 5.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0130	13,800	14.90	Sep 17	0245	19,000	16.27

REVISIONS.--The maximum discharge for the water years 1983 and 1994 have been revised to 7,760 ft³/s, Feb. 2, 1983, gage height, 10.96 ft and 9,710 ft³/s, Aug. 17, 1994, gage height, 12.63 ft superseding figures published in reports for 1983 and 1994.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	77	171	130	103	131	123	132	102	171	202	95
2	64	75	159	128	113	180	115	228	89	146	165	246
3	62	73	152	126	211	191	112	183	83	172	149	122
4	62	71	161	124	143	158	115	153	85	178	125	93
5	59	192	170	182	134	152	106	142	81	138	120	82
6	60	313	147	164	951	309	105	136	77	143	122	87
7	60	165	137	134	479	214	103	127	76	118	101	3,700
8	62	127	131	133	310	184	101	e130	82	108	93	5,620
9	96	112	127	132	262	172	99	e152	90	133	88	1,400
10	121	104	567	122	233	163	96	e141	84	154	84	942
11	121	97	313	116	209	154	97	123	75	215	80	750
12	100	93	229	117	233	147	113	121	73	166	95	613
13	84	90	204	114	206	140	548	293	82	183	90	526
14	81	83	284	111	190	136	242	216	76	137	80	468
15	93	83	226	108	195	146	194	152	166	120	79	421
16	84	80	202	104	182	177	184	153	118	111	93	890
17	80	79	231	104	175	151	153	163	86	112	73	5,720
18	78	101	196	157	164	153	144	150	76	151	74	1,460
19	76	2,420	185	125	158	150	135	139	72	109	67	976
20	74	492	170	107	156	140	129	150	70	101	72	754
21	74	328	163	107	174	155	124	128	76	96	79	606
22	72	264	160	103	152	134	119	124	82	96	68	507
23	71	222	155	98	145	129	114	115	84	101	65	445
24	72	238	241	99	143	128	110	110	87	110	75	399
25	71	203	173	125	139	124	104	103	150	320	73	340
26	152	181	159	155	136	122	225	98	222	162	66	316
27	203	176	151	137	135	118	172	100	133	304	64	477
28	111	272	145	115	130	116	139	93	137	139	74	2,230
29	93	208	143	113	130	113	132	91	119	157	137	767
30	85	184	158	111	---	120	128	110	134	612	93	657
31	80	---	137	104	---	132	---	147	---	292	83	---
TOTAL	2,667	7,203	5,947	3,805	6,091	4,739	4,381	4,403	2,967	5,255	2,929	31,709
MEAN	86.0	240	192	123	210	153	146	142	98.9	170	94.5	1,057
MAX	203	2,420	567	182	951	309	548	293	222	612	202	5,720
MIN	59	71	127	98	103	113	96	91	70	96	64	82

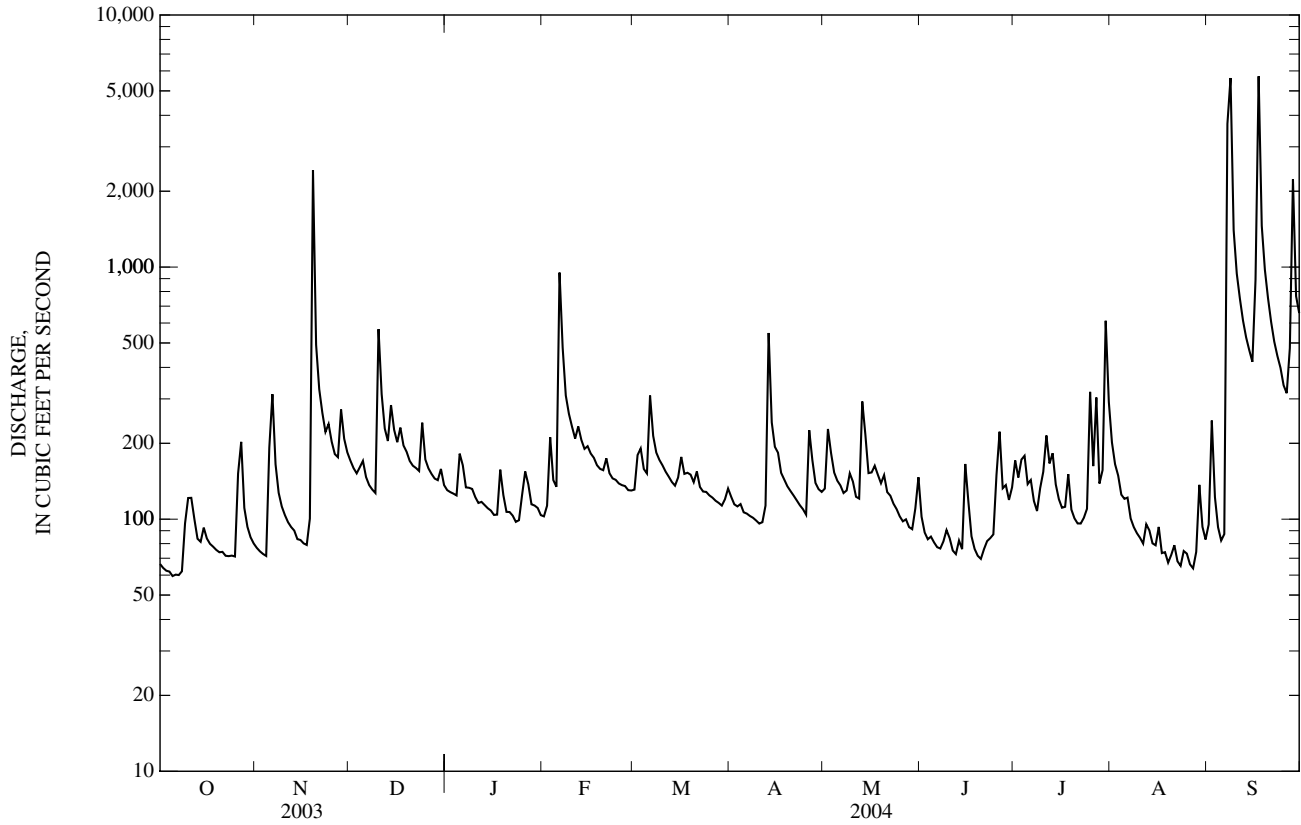
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	92.2	129	166	201	251	261	220	171	116	88.8	88.8	114
MAX	336	341	334	450	522	461	481	381	287	281	317	1,057
(WY)	(1996)	(1993)	(1984)	(1998)	(1998)	(1997)	(1983)	(2003)	(1992)	(1989)	(1994)	(2004)
MIN	30.5	43.0	83.5	53.5	102	83.6	83.5	81.0	53.0	42.0	29.3	27.6
(WY)	(1999)	(1982)	(1989)	(1981)	(1986)	(1988)	(1986)	(2001)	(1988)	(2002)	(1993)	(1998)

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL TOTAL	72,147		82,096		160	
ANNUAL MEAN	198		224		87.5	
HIGHEST ANNUAL MEAN					224	2004
LOWEST ANNUAL MEAN					87.5	1988
HIGHEST DAILY MEAN	2,420	Nov 19	5,720	Sep 17	5,720	Sep 17, 2004
LOWEST DAILY MEAN	53	Sep 21	59	Oct 5	9.2	Sep 2, 1986
ANNUAL SEVEN-DAY MINIMUM	61	Sep 15	61	Oct 2	16	Sep 2, 1986
MAXIMUM PEAK FLOW			19,000*	Sep 17	19,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			16.27*	Sep 17	16.27*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			52*	Oct 4	4.2	Sep 5, 1986
10 PERCENT EXCEEDS	328		309		305	
50 PERCENT EXCEEDS	151		132		110	
90 PERCENT EXCEEDS	73		76		44	

* See REMARKS.
e Estimated.



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°27'42", long 82°52'12", Haywood County, Hydrologic Unit 06010106, on right bank 800 ft upstream from bridge on U.S. Highway 276, 0.3 mi downstream of Dix Creek, 1.6 mi upstream from confluence with West Fork Pigeon River, and 5.2 mi southwest of Canton.

DRAINAGE AREA.--51.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1954 to current year.

REVISED RECORDS.--WDR NC-73-1: 1966(M), 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for current water year and period of record, from rating curve extended above 6,000 ft³/s, on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Dec. 11, 1981, result of freezeup, and Oct. 9, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0245	11,700	12.03	Sep 17	0245	12,900	13.05

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	79	169	125	73	112	83	108	83	88	231	81
2	75	76	158	120	92	125	78	143	73	76	224	288
3	72	74	149	116	172	132	76	126	72	76	209	149
4	69	72	160	113	129	121	76	110	74	81	164	115
5	68	142	163	130	121	118	73	105	68	68	149	99
6	66	183	147	122	956	171	71	101	65	67	136	108
7	66	144	136	110	553	148	70	96	64	59	116	3,530
8	68	124	130	109	341	137	69	96	65	55	106	6,200
9	103	112	125	106	266	129	68	132	67	60	97	1,560
10	127	106	674	101	228	123	66	109	64	90	91	904
11	117	100	439	97	201	117	67	98	65	67	86	621
12	107	96	310	95	205	111	95	95	58	60	100	471
13	95	93	261	92	185	107	573	193	59	56	91	386
14	90	86	301	90	173	103	279	182	59	53	81	332
15	92	84	253	88	174	106	206	139	130	50	77	298
16	85	81	227	85	163	113	177	132	94	48	76	699
17	82	80	239	84	155	103	158	147	73	48	72	5,350
18	80	88	209	99	147	105	144	145	65	55	69	1,740
19	76	2,390	197	87	142	102	132	133	60	46	65	1,150
20	74	627	183	79	138	97	124	122	57	45	70	850
21	72	399	171	78	142	102	116	113	59	44	65	665
22	71	307	165	76	131	93	109	117	67	49	62	528
23	69	253	159	73	127	90	104	117	60	43	70	447
24	68	244	209	74	123	88	100	103	56	44	73	386
25	66	210	166	83	120	86	96	94	64	324	74	341
26	113	188	157	97	118	84	156	89	100	139	63	307
27	152	178	151	95	117	82	129	86	73	202	63	410
28	100	251	144	82	113	80	110	80	80	127	60	2,220
29	90	201	138	81	111	78	104	78	70	174	59	866
30	84	182	145	79	---	81	102	90	68	457	65	622
31	81	---	131	74	---	89	---	108	---	291	89	---
TOTAL	2,656	7,250	6,366	2,940	5,716	3,333	3,811	3,587	2,112	3,142	3,053	31,723
MEAN	85.7	242	205	94.8	197	108	127	116	70.4	101	98.5	1,057
MAX	152	2,390	674	130	956	171	573	193	130	457	231	6,200
MIN	66	72	125	73	73	78	66	78	56	43	59	81
CFSM	1.66	4.69	3.99	1.84	3.83	2.09	2.47	2.25	1.37	1.97	1.91	20.5
IN.	1.92	5.24	4.60	2.12	4.13	2.41	2.75	2.59	1.53	2.27	2.21	22.91

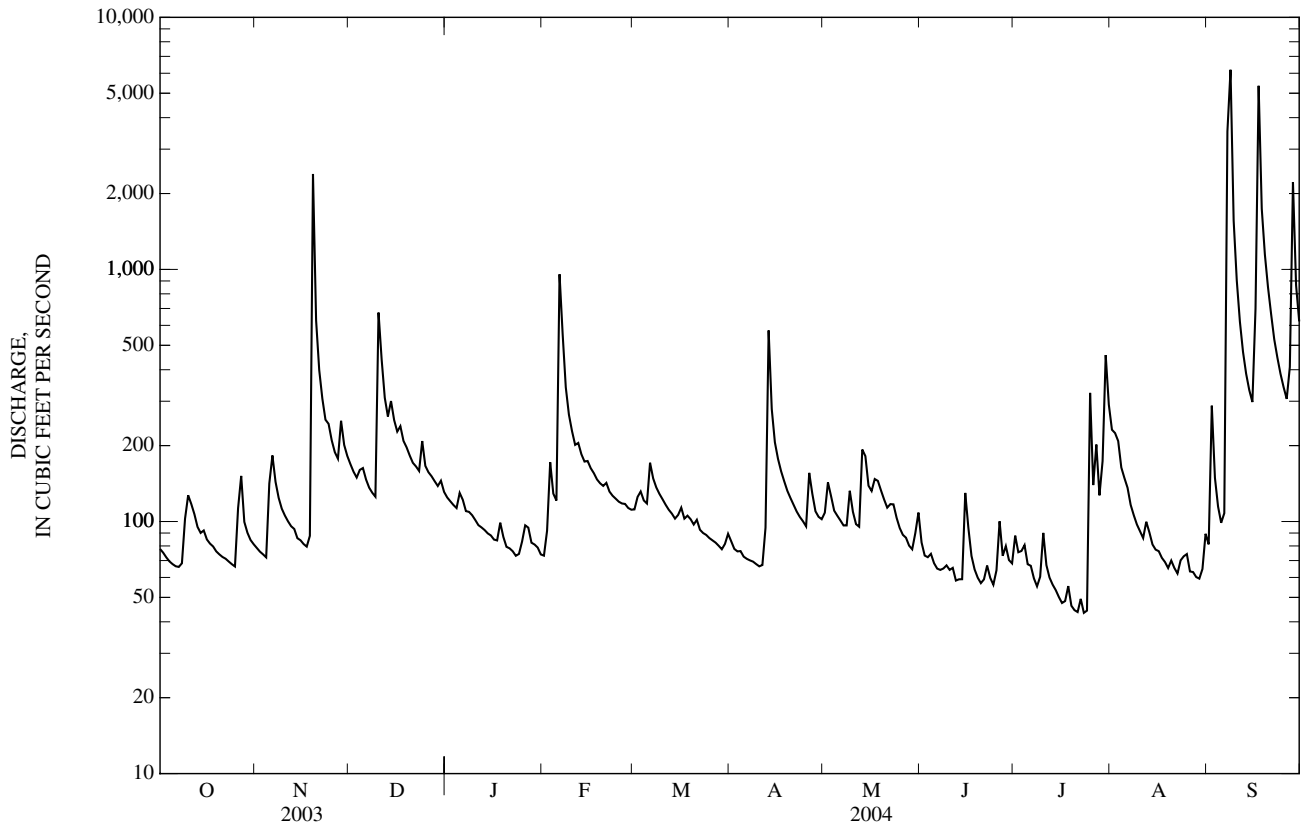
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
MEAN	107	132	145	165	203	231	206	156	114	74.4	76.7	99.3
MAX	363	484	337	444	517	541	480	453	339	268	263	1,057
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1979)	(1957)	(1976)	(1967)	(1989)	(1994)	(2004)
MIN	17.1	27.9	42.4	33.8	71.9	60.9	63.2	59.8	35.7	25.3	25.1	16.0
(WY)	(1955)	(1955)	(1956)	(1956)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1954)

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	66,540		75,689		143	
ANNUAL MEAN	182		207		71.9	
HIGHEST ANNUAL MEAN					207	2004
LOWEST ANNUAL MEAN					71.9	1988
HIGHEST DAILY MEAN	2,390	Nov 19	6,200	Sep 8	6,200	Sep 8, 2004
LOWEST DAILY MEAN	52	Sep 21	43	Jul 23	13	Sep 13, 1998
ANNUAL SEVEN-DAY MINIMUM	61	Sep 15	47	Jul 18	13	Sep 12, 1998
MAXIMUM PEAK FLOW			12,900*	Sep 17	12,900*	Sep 17, 2004
MAXIMUM PEAK STAGE			13.05	Sep 17	13.05	Sep 17, 2004
INSTANTANEOUS LOW FLOW			41	Jul 24	12*	Jan 9, 1956
ANNUAL RUNOFF (CFSM)	3.54		4.02		2.77	
ANNUAL RUNOFF (INCHES)	48.06		54.67		37.64	
10 PERCENT EXCEEDS	295		303		265	
50 PERCENT EXCEEDS	145		104		100	
90 PERCENT EXCEEDS	79		65		35	

* See REMARKS.



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC—Continued

PRECIPITATION RECORDS

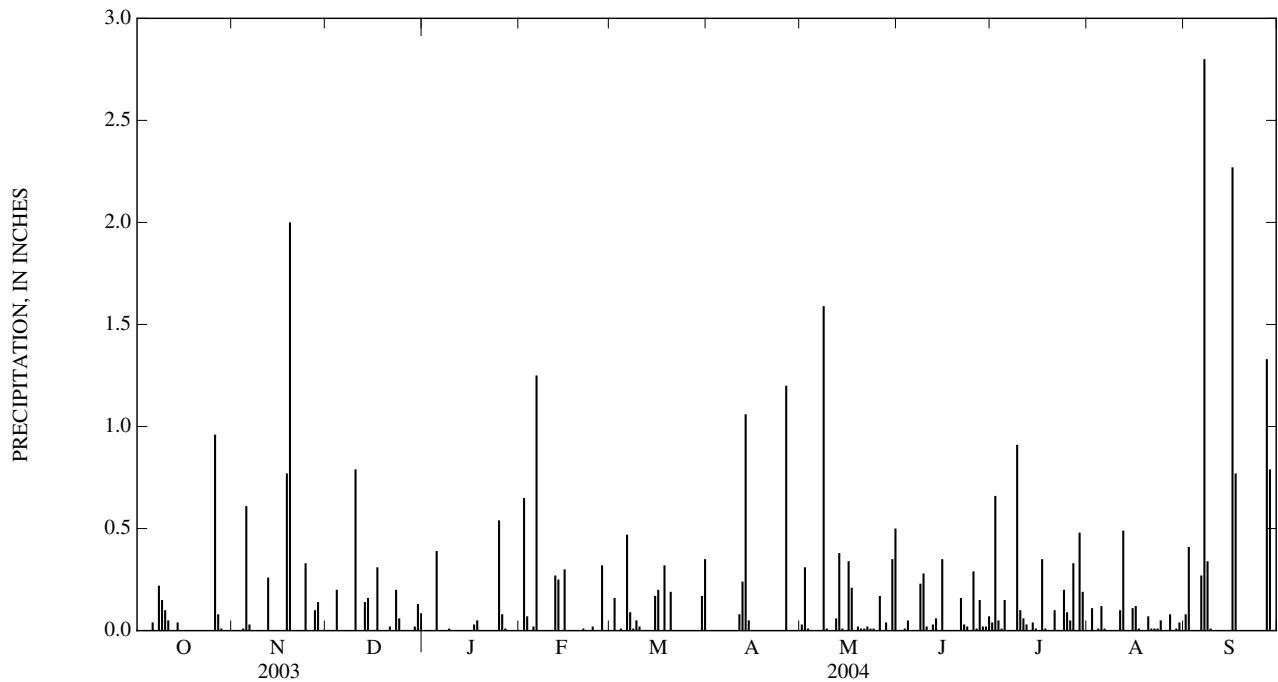
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04	0.00	0.08
2	0.00	0.00	0.00	0.00	0.65	0.16	0.00	0.31	0.00	0.66	0.11	0.41
3	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.01	0.01	0.05	0.00	0.00
4	0.00	0.01	0.20	0.00	0.00	0.01	0.00	0.00	0.05	0.01	0.01	0.00
5	0.00	0.61	0.00	0.39	0.02	0.00	0.00	0.00	0.00	0.15	0.12	0.00
6	0.04	0.03	0.00	0.00	1.25	0.47	0.00	0.00	0.00	0.00	0.01	0.27
7	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	2.80
8	0.22	0.00	0.00	0.00	0.00	0.01	0.00	1.59	0.23	0.00	0.00	0.34
9	0.15	0.00	0.00	0.01	0.00	0.05	0.00	0.01	0.28	0.91	0.00	0.01
10	0.10	0.00	0.79	0.00	0.00	0.02	0.00	0.00	0.02	0.10	0.00	0.00
11	0.05	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.06	0.10	0.00
12	0.00	0.26	0.00	0.00	0.27	0.00	0.24	0.06	0.03	0.03	0.49	0.00
13	0.00	0.00	0.14	0.00	0.25	0.00	1.06	0.38	0.06	0.00	0.00	0.00
14	0.04	0.00	0.16	0.00	0.00	0.00	0.05	0.01	0.00	0.04	0.00	0.00
15	0.00	0.00	0.00	0.00	0.30	0.17	0.00	0.00	0.35	0.01	0.11	0.00
16	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.34	0.00	0.00	0.12	2.27
17	0.00	0.00	0.31	0.03	0.00	0.00	0.00	0.21	0.00	0.35	0.01	0.77
18	0.00	0.77	0.00	0.05	0.00	0.32	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.01	0.00	0.00	0.07	0.00
21	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.01	0.16	0.10	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.01	0.00
23	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.00
24	0.00	0.33	0.06	0.00	0.02	0.00	0.00	0.01	0.00	0.20	0.05	0.00
25	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.29	0.09	0.00	0.00
26	0.96	0.00	0.00	0.08	0.00	0.00	1.20	0.17	0.01	0.05	0.00	0.00
27	0.08	0.10	0.00	0.01	0.32	0.00	0.00	0.00	0.15	0.33	0.08	1.33
28	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.79
29	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.48	0.01	0.00
30	0.00	0.00	0.13	0.00	---	0.17	0.00	0.35	0.07	0.19	0.04	0.00
31	0.00	---	0.00	0.00	---	0.35	---	0.50	---	0.00	0.00	---
TOTAL	1.65	4.25	2.03	1.11	3.16	2.21	2.63	4.09	1.80	3.86	1.36	9.07



03456991 PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°31'19", long 82°50'52", Haywood County, Hydrologic Unit 06010106, on right bank 600 ft upstream from State Highway 215 bridge, 1.3 mi upstream from U.S. Highways 19 and 23 at Canton, and at mile 64.9.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods published in WSP 1306. Published as Pigeon River at Canton, NC (03457000) May 1907 to June 1909, October 1928 to September 1983.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1903(M). WDR NC-91-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,581.66 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Prior to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at site 0.8 mi downstream at different datum. Prior to Oct. 1, 1983, water-stage recorder at site 0.8 mi downstream at different datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation and considerable regulation at low flow, since 1932, caused by Lake Logan (station 03455773) on West Fork Pigeon River 11.2 mi upstream. Prior to regulation, maximum discharge: 21,500 ft³/s, Aug. 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft³/s, Sept. 3, 1930. Maximum discharge for current water year and period of record from rating curve extended above 20,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record, at former site, result of freezeup. Minimum discharge for current water year also occurred Oct. 26 and July 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft; discharge, 25,700 ft³/s, at former site, from studies by Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0445	41,000	20.70	Sep 17	0515	48,000	22.80

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	156	383	300	214	280	238	275	225	251	475	188
2	147	151	359	292	224	326	219	401	190	215	413	507
3	141	145	343	286	439	373	214	368	179	249	406	303
4	140	142	354	281	324	322	217	305	187	261	318	222
5	131	303	377	341	299	308	204	285	176	201	285	194
6	132	489	336	343	1,840	490	201	274	166	202	284	196
7	131	330	313	287	1,070	405	197	256	163	e172	233	7,050
8	132	259	302	286	683	363	194	323	170	e154	215	19,800
9	200	230	292	283	568	340	192	336	e175	e180	201	3,050
10	257	213	1,150	268	505	326	183	311	e165	e250	191	1,620
11	237	202	794	252	456	307	183	259	e170	e240	181	1,120
12	222	195	573	256	478	295	219	252	e150	e220	210	866
13	186	191	502	248	444	281	1,050	461	e153	211	201	700
14	173	173	603	241	412	274	579	489	e151	178	178	598
15	174	171	520	236	417	283	449	341	337	159	168	525
16	160	166	471	227	397	324	410	325	265	147	187	1,120
17	153	161	508	224	380	294	353	358	193	144	159	17,100
18	149	164	450	290	360	289	329	343	169	191	157	e3,420
19	142	5,070	426	260	347	291	306	318	157	146	145	2,000
20	139	1,130	397	224	342	267	288	315	148	136	153	1,410
21	139	754	378	224	359	291	277	278	155	130	158	1,080
22	132	604	369	217	325	257	260	269	175	136	143	875
23	129	517	359	207	313	247	250	259	170	136	141	742
24	127	516	480	211	307	247	242	245	155	133	168	640
25	125	457	385	e234	301	239	228	223	167	580	162	556
26	209	412	360	301	295	235	411	213	e360	318	141	507
27	384	392	345	280	294	230	362	215	201	528	138	694
28	219	540	332	240	285	222	290	198	212	297	132	5,260
29	187	457	322	233	282	217	273	193	188	320	202	1,570
30	170	408	350	232	---	226	265	227	180	931	175	1,210
31	160	---	312	215	---	250	---	311	---	627	178	---
TOTAL	5,282	15,098	13,445	8,019	12,960	9,099	9,083	9,226	5,652	8,043	6,498	75,123
MEAN	170	503	434	259	447	294	303	298	188	259	210	2,504
MAX	384	5,070	1,150	343	1,840	490	1,050	489	360	931	475	19,800
MIN	125	142	292	207	214	217	183	193	148	130	132	188

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004,* BY WATER YEAR (WY)

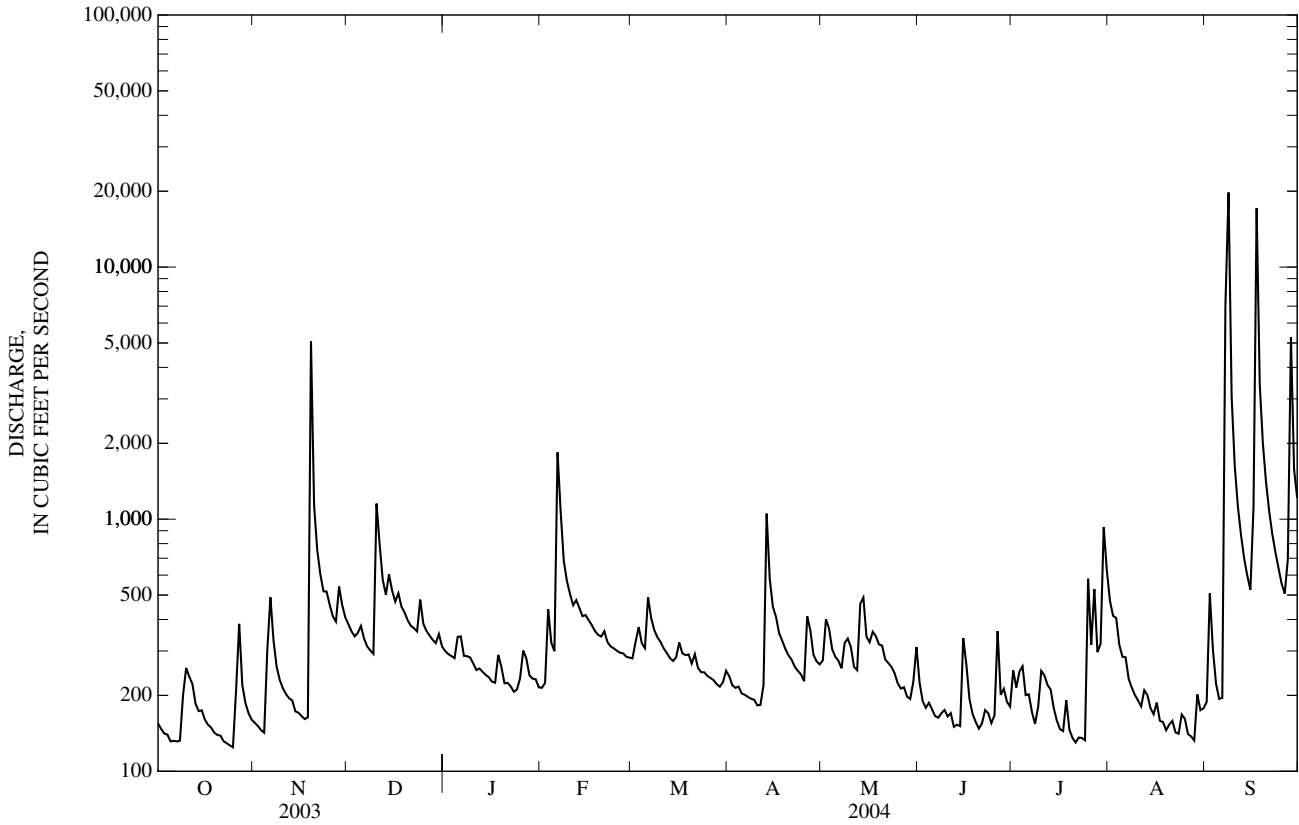
MEAN	219	265	322	418	475	530	464	339	260	192	199	220
MAX	787	964	872	1,017	1,150	1,058	1,005	981	781	583	1,476	2,504
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1975)	(1983)	(1976)	(1967)	(1989)	(1940)	(2004)
MIN	48.2	59.2	64.5	85.3	150	155	167	132	96.5	88.6	65.9	47.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1941)	(2002)	(1954)	(1998)

03456991 PIGEON RIVER NEAR CANTON, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004*	
ANNUAL TOTAL	146,977		177,528			
ANNUAL MEAN	403		485		324	
HIGHEST ANNUAL MEAN					503	1949
LOWEST ANNUAL MEAN					170	1988
HIGHEST DAILY MEAN	5,070	Nov 19	19,800	Sep 8	19,800	Sep 8, 2004
LOWEST DAILY MEAN	98	Sep 21	125	Oct 25	27	Sep 7, 1954
ANNUAL SEVEN-DAY MINIMUM	117	Sep 15	133	Oct 19	40	Sep 13, 1998
MAXIMUM PEAK FLOW			48,000*	Sep 17	48,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			22.80*	Sep 17	22.80*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			123*	Oct 25	15*	Jan 8, 1956
10 PERCENT EXCEEDS	642		575		605	
50 PERCENT EXCEEDS	335		265		230	
90 PERCENT EXCEEDS	150		153		86	

* Regulated period only (1932-2004). See REMARKS.

e Estimated.



03459500 PIGEON RIVER NEAR HEPACO, NC

LOCATION.--Lat 35°38'06", long 82°59'24", Haywood County, Hydrologic Unit 06010106, on left bank 95 ft east of Interstate Highway 40, 0.8 mi downstream of Jonathan Creek, 2.0 mi south of Hepco, 2.4 mi upstream from Fines Creek, and at mile 45.1.

DRAINAGE AREA.--350 mi².

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 1937-39(M).

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Regulation by Lake Junaluska (station 03458319) on Richland Creek and Lake Logan (station 03455773) on West Fork Pigeon River for periods at low flow, combined capacity of reservoirs, about 2,000 ft³/s-day. Maximum discharge for current water year and period of record, from rating curve extended above 12,000 ft³/s on basis of slope-conveyance measurement of peak flow.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority; discharge, about 42,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	1015	34,300	16.77	Sep 17	0945	36,500	17.31

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	395	778	614	481	602	487	548	594	713	888	380
2	365	358	683	600	543	680	448	690	460	645	742	684
3	352	351	653	592	937	757	435	751	442	678	824	594
4	345	343	676	585	770	673	427	605	462	619	604	444
5	333	459	740	764	719	646	407	570	411	515	549	395
6	334	714	717	775	2,690	927	396	564	381	539	561	373
7	332	625	673	628	2,310	840	387	530	371	445	472	4,360
8	326	491	649	606	1,470	735	396	613	373	394	432	23,900
9	393	453	631	611	1,240	693	430	789	401	388	407	5,150
10	470	429	1,290	598	1,130	674	426	646	454	726	389	3,050
11	448	413	1,510	568	1,030	643	433	567	392	626	387	2,410
12	470	403	1,000	569	1,060	628	454	529	385	510	592	1,950
13	403	402	897	554	1,030	621	1,930	623	585	483	453	1,640
14	397	377	1,050	542	953	617	1,230	928	471	444	390	1,390
15	420	370	961	575	964	654	875	595	554	389	372	1,220
16	366	366	877	599	931	788	784	606	608	351	447	1,670
17	349	365	1,010	588	853	716	697	659	494	346	367	21,500
18	344	420	892	661	817	776	649	631	410	476	361	6,330
19	335	6,360	857	656	768	747	611	602	376	368	333	3,960
20	326	2,430	802	571	727	699	584	567	347	342	342	3,070
21	322	1,480	757	546	742	724	566	532	365	313	415	2,510
22	312	1,150	741	511	703	664	e539	573	402	308	394	2,100
23	306	1,000	720	e443	676	637	e513	603	396	313	365	1,790
24	324	1,010	923	437	664	609	499	517	386	336	367	1,520
25	405	936	794	487	654	580	481	464	428	822	381	1,340
26	489	846	730	615	644	550	802	437	653	699	392	1,210
27	759	807	689	584	649	520	785	473	497	1,550	336	1,320
28	533	1,100	667	533	634	494	602	422	512	718	332	7,230
29	468	1,000	649	499	612	456	560	408	448	565	375	3,120
30	441	874	736	517	---	468	540	467	448	1,190	405	2,460
31	426	---	647	494	---	503	---	1,060	---	1,100	404	---
TOTAL	12,273	26,727	25,399	17,922	27,401	20,321	18,373	18,569	13,506	17,911	14,078	109,070
MEAN	396	891	819	578	945	656	612	599	450	578	454	3,636
MAX	759	6,360	1,510	775	2,690	927	1,930	1,060	653	1,550	888	23,900
MIN	306	343	631	437	481	456	387	408	347	308	332	373

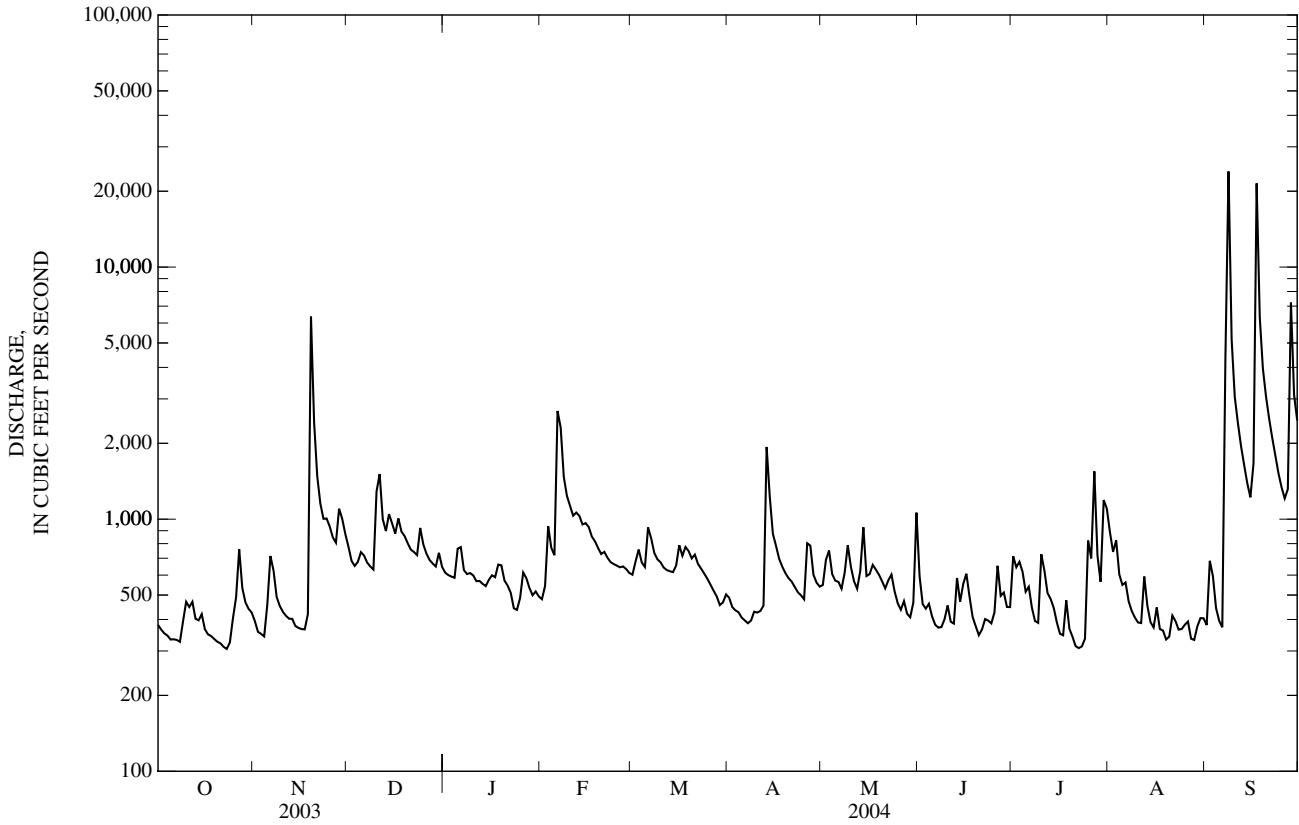
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2004, BY WATER YEAR (WY)

MEAN	411	502	667	872	1,022	1,140	983	732	538	425	422	418
MAX	1,353	1,627	2,125	2,275	2,227	2,455	2,010	1,798	1,502	1,141	2,246	3,636
(WY)	(1965)	(1980)	(1933)	(1937)	(1990)	(1929)	(1936)	(2003)	(1967)	(1989)	(1940)	(2004)
MIN	122	133	193	194	319	346	359	283	200	183	163	123
(WY)	(1955)	(1954)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1953)	(1999)

03459500 PIGEON RIVER NEAR HEPCO, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1927 - 2004	
ANNUAL TOTAL	315,400		321,550		676	
ANNUAL MEAN	864		879		341	
HIGHEST ANNUAL MEAN					943	1949
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	9,600	May 6	23,900	Sep 8	23,900	Sep 8, 2004
LOWEST DAILY MEAN	273	Sep 21	306	Oct 23	95	Sep 30, 1941
ANNUAL SEVEN-DAY MINIMUM	315	Sep 15	324	Oct 18	100	Sep 12, 1999
MAXIMUM PEAK FLOW			36,500*	Sep 17	36,500*	Sep 17, 2004
MAXIMUM PEAK STAGE			17.31	Sep 17	17.31	Sep 17, 2004
INSTANTANEOUS LOW FLOW			292	Jul 24	81	Sep 30, 1941
10 PERCENT EXCEEDS	1,440		1,200		1,250	
50 PERCENT EXCEEDS	681		585		504	
90 PERCENT EXCEEDS	381		367		207	

* See REMARKS.
e Estimated.



03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC

LOCATION.--Lat 35°40'03", long 83°04'25", Haywood County, Hydrologic Unit 06010106, in Great Smoky Mountains National Park, on left bank 20 ft downstream of bridge on State Highway 284, 500 ft upstream from Little Cataloochee Creek, 2 mi north of Cataloochee, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--49.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Jan. 2, 1940, and Dec. 17, 24, 1943, result of freezeup. Minimum discharge for current water year also occurred Oct. 22-26, Nov 4.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	40	129	117	94	87	104	91	143	112	106	66
2	50	40	114	113	107	134	99	111	109	109	107	84
3	49	40	105	111	145	126	96	97	98	158	116	69
4	48	39	116	109	116	115	92	90	93	134	98	64
5	47	51	111	320	112	111	88	88	87	119	101	62
6	47	73	100	293	510	371	86	85	82	132	100	61
7	47	64	94	219	452	272	84	82	79	107	86	407
8	45	53	91	186	288	215	83	88	77	99	80	1,590
9	48	49	88	167	224	185	80	99	84	92	76	738
10	49	48	146	145	191	166	77	89	99	99	73	445
11	46	46	136	131	166	149	79	84	80	92	81	323
12	44	45	125	122	165	137	82	80	82	84	126	242
13	43	47	120	114	144	126	250	86	111	79	91	197
14	44	44	144	107	135	118	162	79	107	87	83	168
15	48	43	123	103	143	124	138	73	91	73	78	148
16	42	43	118	97	132	174	125	74	101	68	76	223
17	41	47	160	94	124	140	116	93	110	68	72	1,900
18	41	50	139	121	117	191	109	102	105	78	69	948
19	40	530	137	98	113	205	104	98	90	65	65	565
20	40	213	125	e90	111	194	100	89	82	62	63	391
21	40	149	125	e90	113	186	96	81	85	58	79	297
22	39	121	111	87	105	163	92	79	91	56	70	238
23	39	105	109	e84	101	150	89	84	92	55	75	202
24	39	135	167	83	100	140	86	70	97	60	72	176
25	39	109	140	120	97	130	83	66	141	70	77	157
26	48	102	132	124	96	122	156	63	200	79	98	142
27	74	103	123	116	95	116	107	73	151	265	75	142
28	51	182	116	108	91	111	97	63	130	132	70	385
29	45	171	111	107	89	105	94	60	113	110	70	216
30	43	147	154	103	---	112	91	72	107	111	75	186
31	42	---	122	e96	---	112	---	318	---	100	69	---
TOTAL	1,410	2,929	3,831	3,975	4,476	4,787	3,145	2,807	3,117	3,013	2,577	10,832
MEAN	45.5	97.6	124	128	154	154	105	90.5	104	97.2	83.1	361
MAX	74	530	167	320	510	371	250	318	200	265	126	1,900
MIN	39	39	88	83	89	87	77	60	77	55	63	61
CFSM	0.92	1.98	2.51	2.61	3.14	3.14	2.13	1.84	2.11	1.98	1.69	7.34
IN.	1.07	2.21	2.90	3.01	3.38	3.62	2.38	2.12	2.36	2.28	1.95	8.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, @ BY WATER YEAR (WY)

MEAN	52.8	71.0	112	163	179	201	156	115	84.7	74.3	71.4	58.3
MAX	146	159	302	392	394	496	305	289	252	182	223	361
(WY)	(1990)	(1980)	(1973)	(1937)	(1990)	(1963)	(1936)	(2003)	(1967)	(1949)	(1940)	(2004)
MIN	21.3	22.3	26.0	35.5	49.5	63.2	58.8	46.2	34.7	29.6	26.9	23.5
(WY)	(1999)	(1940)	(1940)	(1940)	(1941)	(1988)	(1986)	(1986)	(1986)	(1986)	(1987)	(1998)

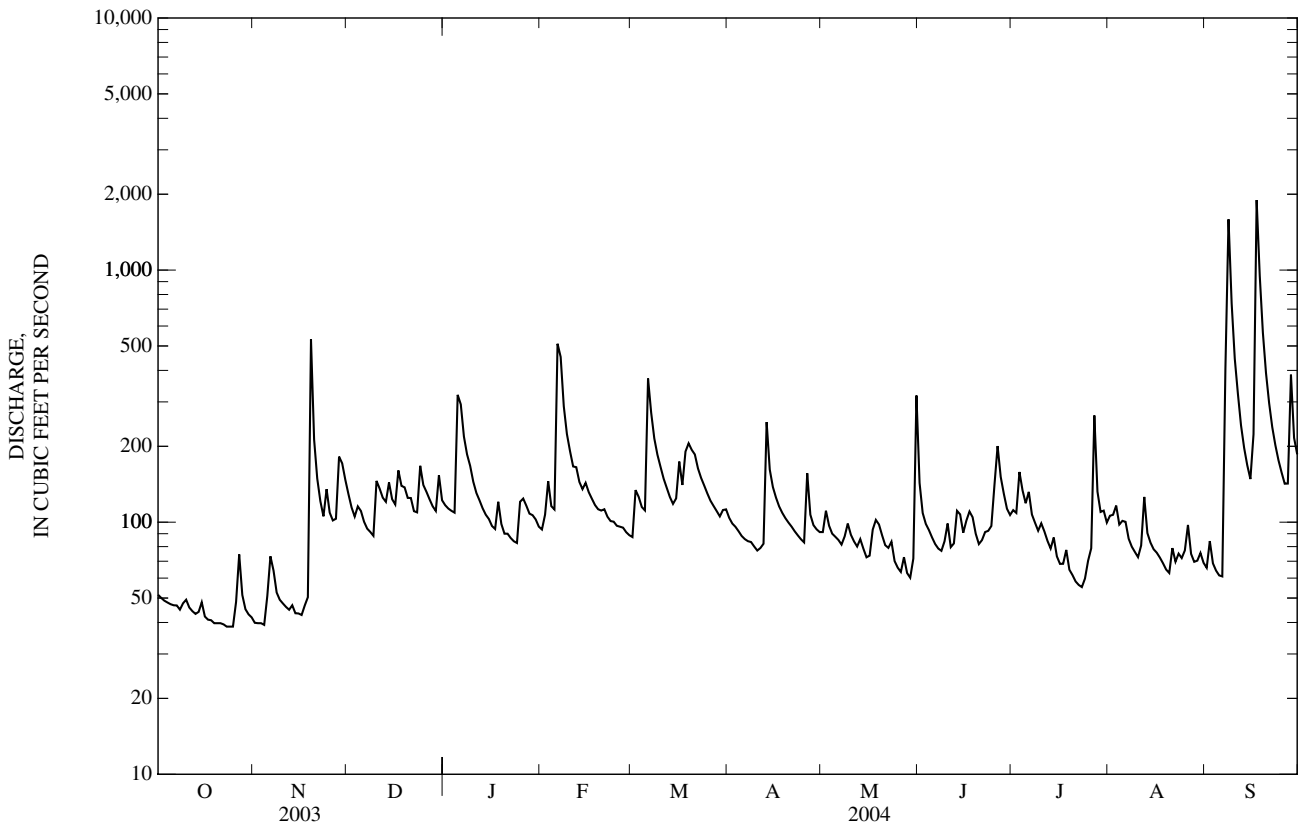
03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004 [@]	
ANNUAL TOTAL	49,841		46,899		111	
ANNUAL MEAN	137		128		51.5	
HIGHEST ANNUAL MEAN					171	1994
LOWEST ANNUAL MEAN					51.5	1986
HIGHEST DAILY MEAN	1,960	May 6	1,900	Sep 17	2,690	Mar 16, 1973
LOWEST DAILY MEAN	39	Oct 22	39	Oct 22	12	Jan 2, 1940
ANNUAL SEVEN-DAY MINIMUM	39	Oct 19	39	Oct 19	18	Oct 21, 1998
MAXIMUM PEAK FLOW			2,680	Sep 8	5,080	Mar 6, 1963
MAXIMUM PEAK STAGE			6.36	Sep 8	8.08	Mar 6, 1963
INSTANTANEOUS LOW FLOW			39*	Oct 22	9.4*	Jan 2, 1940
ANNUAL RUNOFF (CFSM)	2.78		2.60		2.26	
ANNUAL RUNOFF (INCHES)	37.68		35.46		30.76	
10 PERCENT EXCEEDS	224		191		205	
50 PERCENT EXCEEDS	105		100		82	
90 PERCENT EXCEEDS	47		48		34	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.



03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

LOCATION.--Lat 35°47'01", long 83°06'43", Coker County Tennessee, Hydrologic Unit 06010105, on left bank, 550 ft upstream of Browns Bridge on Waterville Road, 0.9 mi downstream of North Carolina and Tennessee state lines, 1.0 mi northwest of Waterville, and at mile 25.

DRAINAGE AREA.--538 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable regulation, caused by Walters Hydroelectric Plant, 1.0 mi upstream. Maximum discharge for period of record and current water year from rating curve extended above 11,000 ft³/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for period of record and current water year affected by regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0630	30,500	17.22	Sep 17	1215	39,000	18.88

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 1997, 1998, and 2003.

Date	Discharge (ft ³ /s)	Gage height (ft)
Mar. 3, 1997	13,400	12.17
Jan. 8, 1998	17,000	13.42
May 6, 2003	27,100	16.39

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	357	174	1,410	976	412	966	857	422	1,300	1,180	1,720	661
2	527	255	1,550	885	1,630	974	767	466	907	1,280	1,430	804
3	e742	626	1,080	382	1,280	1,300	518	1,290	1,050	e1,070	2,090	1,570
4	460	573	1,320	402	886	1,400	418	1,240	953	e1,310	1,380	1,360
5	344	650	1,140	1,740	1,830	1,690	818	879	709	e1,180	1,600	249
6	192	911	1,220	2,480	3,430	1,700	1,260	724	353	e1,600	790	979
7	721	1,300	934	1,500	3,610	1,710	856	1,120	761	e1,250	1,040	2,070
8	979	620	1,410	960	2,810	1,800	1,050	1,270	726	1,310	599	22,500
9	917	371	854	1,690	2,620	1,350	410	986	685	901	954	8,210
10	389	781	1,220	595	2,380	1,020	690	1,480	907	626	827	4,700
11	184	540	2,520	746	1,910	1,070	497	861	772	177	766	3,540
12	384	493	1,540	1,300	1,840	1,290	988	1,180	786	1,020	1,240	2,680
13	974	583	1,470	1,220	2,070	1,400	2,120	852	489	900	1,010	2,230
14	447	898	1,480	1,170	1,000	762	2,690	1,370	655	1,050	651	2,470
15	562	375	1,480	316	637	1,410	1,510	921	876	626	259	2,640
16	441	234	1,530	1,500	1,670	1,540	1,860	1,010	1,330	514	709	2,440
17	313	695	1,520	593	1,430	1,400	1,050	1,180	1,120	684	847	22,200
18	368	809	1,760	271	1,390	1,740	1,140	1,210	1,480	470	837	10,400
19	398	7,060	1,760	958	1,120	1,100	1,550	1,190	1,260	528	854	6,010
20	666	3,790	1,070	1,530	1,360	1,600	1,090	801	365	677	755	4,380
21	589	2,590	796	670	1,220	1,550	1,310	844	950	736	767	3,520
22	333	2,470	1,030	1,430	826	1,370	1,180	747	1,100	802	251	3,030
23	269	1,730	1,460	843	1,510	1,670	1,070	e920	1,330	620	260	3,050
24	573	1,920	1,270	266	1,340	1,140	1,130	e930	1,360	714	788	2,480
25	725	1,340	1,560	1,200	1,300	1,280	509	944	1,350	552	782	2,460
26	605	1,250	1,310	1,490	1,730	1,330	1,520	1,060	1,630	1,100	791	2,500
27	893	1,230	1,160	1,040	786	419	1,190	1,280	942	2,540	251	2,500
28	1,160	991	1,020	1,020	461	304	1,160	464	1,210	1,250	788	6,160
29	439	1,240	1,560	922	406	1,180	1,150	694	1,080	1,250	262	4,460
30	473	855	1,290	543	---	1,280	976	338	1,100	1,290	736	3,270
31	485	---	1,800	1,120	---	1,070	---	1,460	---	1,870	636	---
TOTAL	16,909	37,354	42,524	31,758	44,894	39,815	33,334	30,133	29,536	31,077	26,670	135,523
MEAN	545	1,245	1,372	1,024	1,548	1,284	1,111	972	985	1,002	860	4,517
MAX	1,160	7,060	2,520	2,480	3,610	1,800	2,690	1,480	1,630	2,540	2,090	22,500
MIN	184	174	796	266	406	304	410	338	353	177	251	249

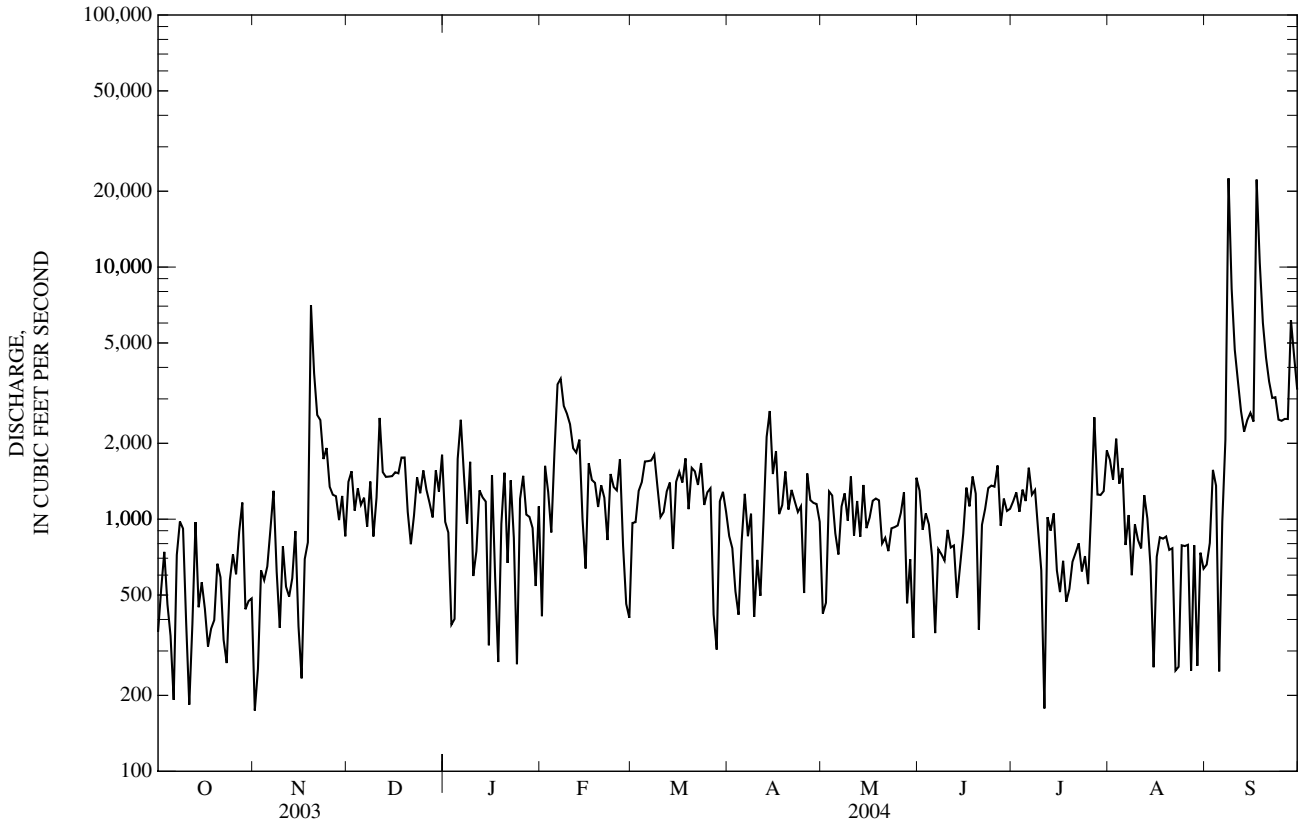
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

	376	657	850	1,198	1,575	1,697	1,550	1,301	854	791	537	901
MEAN	376	657	850	1,198	1,575	1,697	1,550	1,301	854	791	537	901
MAX	545	1,245	1,533	2,187	3,096	3,505	2,540	2,835	1,432	1,350	860	4,517
(WY)	(2004)	(2004)	(2003)	(1998)	(1998)	(1997)	(1998)	(2003)	(1997)	(2003)	(2004)	(2004)
MIN	153	286	554	810	794	1,063	961	676	471	409	293	176
(WY)	(1999)	(2002)	(2002)	(2000)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(1999)

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	499,203		499,527		990	
ANNUAL MEAN	1,368		1,365		1,365	
HIGHEST ANNUAL MEAN					644	2002
LOWEST ANNUAL MEAN					22,500	Sep 8, 2004
HIGHEST DAILY MEAN	17,700	May 6	22,500	Sep 8	74	Nov 19, 2000
LOWEST DAILY MEAN	144	Sep 21	174	Nov 1	117	Oct 2, 1998
ANNUAL SEVEN-DAY MINIMUM	167	Sep 15	419	Oct 17	39,000*	Sep 17, 2004
MAXIMUM PEAK FLOW					18.88	Sep 17, 2004
MAXIMUM PEAK STAGE					138*	Jul 15
INSTANTANEOUS LOW FLOW					24*	Jun 23, 2002
10 PERCENT EXCEEDS	2,370		2,150		1,990	
50 PERCENT EXCEEDS	1,160		1,070		748	
90 PERCENT EXCEEDS	387		419		178	

* See REMARKS.
e Estimated.



03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	18.7	17.4	18.0
21	---	---	---	---	---	---	---	---	---	18.9	17.7	18.2
22	---	---	---	---	---	---	---	---	---	18.6	17.9	18.3
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	19.2	18.0	18.6
26	---	---	---	---	---	---	---	---	---	19.2	18.5	18.9
27	---	---	---	---	---	---	---	---	---	19.6	18.6	19.2
28	---	---	---	---	---	---	---	---	---	19.4	18.7	19.1
29	---	---	---	---	---	---	---	---	---	19.7	18.5	19.1
30	---	---	---	---	---	---	---	---	---	19.5	18.6	19.0
31	---	---	---	---	---	---	---	---	---	19.3	18.4	18.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.3	17.2	18.3	19.9	17.2	18.9	21.6	20.8	21.4	21.6	20.7	21.1
2	19.2	16.1	18.3	20.4	17.3	19.0	---	---	---	21.4	20.7	21.1
3	19.3	17.9	18.7	---	---	---	---	---	---	21.9	21.3	21.6
4	19.6	18.1	18.9	---	---	---	21.2	18.5	20.0	21.9	20.9	21.5
5	19.6	18.0	18.8	---	---	---	21.4	19.1	20.6	21.8	20.5	21.1
6	18.9	18.0	18.5	---	---	---	20.6	18.2	19.5	21.7	20.6	21.2
7	19.6	18.2	18.8	---	---	---	20.9	17.2	19.1	21.8	20.3	21.4
8	19.6	18.6	19.1	20.7	16.4	19.0	20.4	17.4	18.8	21.7	17.3	18.9
9	19.9	18.8	19.3	20.7	18.1	19.6	20.6	18.2	19.4	17.3	16.6	17.0
10	20.2	18.9	19.5	20.9	17.1	19.2	20.6	18.5	19.6	17.6	16.6	16.9
11	20.3	19.2	19.8	20.8	17.7	19.1	20.6	19.1	19.9	17.9	16.6	17.0
12	20.5	19.6	20.0	21.4	18.6	20.3	20.7	18.9	20.0	17.7	16.9	17.2
13	20.2	19.4	19.8	21.6	18.8	20.5	20.3	18.4	19.5	17.9	16.8	17.2
14	20.3	19.2	19.7	21.8	18.7	20.7	20.2	18.1	19.1	17.5	16.9	17.1
15	20.4	19.6	20.0	21.7	19.2	20.7	20.0	18.2	18.9	17.4	17.1	17.2
16	20.9	20.2	20.5	21.8	19.4	20.5	20.2	18.3	19.3	17.7	17.3	17.4
17	20.9	19.5	20.4	21.7	19.8	20.7	20.2	19.0	19.8	18.4	16.8	17.6
18	20.4	19.0	19.8	21.7	18.3	19.8	20.4	18.9	19.8	17.0	15.9	16.5
19	21.2	18.8	20.0	21.8	19.7	20.7	20.6	19.4	20.1	16.1	15.5	15.8
20	20.8	19.5	20.0	21.8	19.8	20.8	20.7	19.8	20.3	15.5	14.9	15.2
21	21.1	19.2	20.0	21.9	20.0	21.0	20.9	19.7	20.3	15.1	14.5	14.7
22	20.6	18.4	19.6	22.0	20.7	21.4	21.2	19.7	20.3	14.7	14.2	14.4
23	20.9	17.6	19.2	22.1	21.0	21.5	20.6	19.8	20.1	15.3	14.4	14.7
24	20.6	17.0	18.5	22.4	21.1	21.8	20.8	19.7	20.3	15.0	14.5	14.8
25	20.4	17.3	18.5	22.6	21.5	22.0	20.9	19.8	20.4	15.2	14.8	15.1
26	19.2	16.4	17.9	22.5	21.5	22.1	21.0	19.9	20.5	15.8	15.2	15.5
27	18.9	16.5	17.5	22.5	20.8	21.8	21.4	20.1	20.7	16.4	15.7	16.1
28	19.9	16.8	18.4	21.7	19.8	20.8	21.3	20.1	20.7	17.2	16.4	16.6
29	20.3	17.3	18.7	21.6	19.7	20.8	21.4	20.3	20.9	16.5	15.9	16.1
30	20.1	17.7	18.9	21.8	19.9	20.9	21.4	20.3	20.8	16.2	15.8	16.0
31	---	---	---	21.9	21.4	21.7	21.4	20.6	21.1	---	---	---
MONTH	21.2	16.1	19.2	---	---	---	---	---	---	21.9	14.2	17.5

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERSVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	6.8	7.6	9.4	8.0	8.7	7.3	6.9	7.1	8.7	7.3	7.8
2	8.8	6.9	7.4	9.5	7.2	8.3	---	---	---	8.9	7.3	7.8
3	---	---	---	---	---	---	---	---	---	7.6	6.8	7.3
4	---	---	---	---	---	---	8.7	7.5	8.0	8.2	7.1	7.7
5	8.3	7.1	7.7	---	---	---	8.3	7.2	7.7	9.0	7.4	8.4
6	8.3	7.6	7.9	---	---	---	8.7	7.8	8.2	8.6	7.4	8.0
7	8.2	7.0	7.6	---	---	---	9.2	7.3	8.2	9.5	7.4	7.9
8	8.0	7.2	7.5	9.8	7.5	8.5	9.1	7.9	8.5	11.6	9.5	11.0
9	8.3	7.0	7.5	8.8	7.8	8.3	9.0	7.6	8.2	11.2	10.9	11.0
10	8.3	6.8	7.4	9.6	7.7	8.5	8.8	7.5	8.1	11.1	10.7	10.9
11	8.1	7.0	7.3	9.4	8.3	8.8	8.8	7.5	7.9	11.3	10.6	10.8
12	---	---	---	8.5	7.0	7.8	8.5	7.6	7.9	11.0	10.7	10.8
13	---	---	---	8.7	6.5	7.5	8.8	7.6	8.1	11.3	10.8	11.0
14	---	---	---	8.6	6.4	7.2	9.0	7.6	8.2	11.1	10.9	11.0
15	---	---	---	8.3	6.2	7.2	8.8	7.8	8.3	11.2	10.9	11.0
16	---	---	---	8.2	6.1	7.3	9.0	7.4	8.1	10.9	9.9	10.6
17	---	---	---	7.8	6.0	6.9	8.3	4.9	7.3	12.4	10.2	12.0
18	---	---	---	8.6	6.3	7.5	8.6	5.4	6.6	12.1	9.6	11.6
19	---	---	---	7.9	6.1	6.8	8.2	4.7	6.6	12.1	11.1	11.8
20	---	---	---	8.0	6.6	7.1	8.5	6.9	7.7	11.7	10.2	10.9
21	---	---	---	8.7	6.5	7.3	8.7	7.1	7.6	10.3	8.6	9.6
22	---	---	---	8.9	6.4	7.0	9.0	7.5	8.0	9.8	9.6	9.7
23	---	---	---	8.6	6.6	7.3	8.8	7.6	8.0	10.1	9.6	9.8
24	9.2	7.3	8.4	7.9	6.5	7.1	8.7	7.3	7.8	9.8	9.6	9.7
25	9.1	7.6	8.4	9.1	6.5	7.4	8.8	7.2	7.9	9.7	9.4	9.6
26	9.4	8.2	8.7	7.5	6.3	6.9	8.5	7.2	7.6	9.6	9.3	9.4
27	9.7	8.2	9.0	7.6	6.2	6.8	8.9	7.5	8.0	9.4	8.9	9.2
28	9.5	7.7	8.5	8.1	7.1	7.6	8.8	7.0	7.8	9.5	8.9	9.2
29	9.5	7.7	8.4	8.3	7.0	7.5	8.5	6.9	7.9	9.3	9.1	9.2
30	9.6	7.8	8.4	7.9	6.5	7.2	8.7	7.1	7.7	9.2	8.9	9.1
31	---	---	---	7.2	6.5	6.9	8.8	7.3	7.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	12.4	6.8	9.8

03463300 SOUTH TOE RIVER NEAR CELO, NC

LOCATION.--Lat 35°49'53", long 82°11'03", Yancey County, Hydrologic Unit 06010108, on right bank on Secondary Road 1168, 800 ft upstream from bridge on Secondary Road 1167, 0.3 mi downstream of Whiteoak Creek, 1.9 mi southeast of Celso, and at mile 20.1.

DRAINAGE AREA.--43.3 mi².

PERIOD OF RECORD.--July 1957 to current year.

REVISED RECORDS.--WSP 1910: 1958-59. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,658 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 5,000 ft³/s on basis of slope-area measurement of peak flow; gage height from outside floodmarks. Minimum discharge for period of record also occurred Sept. 26, 27, 1999, Sept. 11, 12, 13, 2002. Maximum gage height for current water year from high-water mark in gage house.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	unknown	28,000	15.50	Sep 17	unknown	22,000	13.0

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	78	135	112	e63	96	101	86	68	54	125	261
2	88	75	126	109	62	132	90	93	56	64	124	761
3	83	72	120	116	78	144	87	92	50	75	91	275
4	78	70	138	126	67	138	91	82	81	70	70	171
5	75	84	151	150	66	129	84	79	65	58	59	130
6	71	156	131	126	695	223	81	74	54	60	54	207
7	69	133	120	e100	312	148	84	71	51	55	48	e7,450
8	74	105	115	97	187	124	89	67	64	52	47	e8,390
9	304	93	112	95	156	111	86	86	56	49	47	e2,080
10	399	88	391	92	141	105	80	84	51	46	46	e805
11	271	83	275	e86	128	98	80	71	47	57	44	e566
12	202	80	193	84	128	93	146	71	43	60	60	e424
13	160	79	171	83	118	88	491	80	53	55	51	e313
14	143	71	190	80	113	85	230	81	49	50	47	e265
15	146	70	170	77	112	90	169	72	99	45	47	e222
16	124	70	156	74	105	121	149	70	99	43	45	305
17	113	69	187	74	99	101	130	89	87	42	42	e8,040
18	105	91	160	111	95	146	118	72	66	67	51	1,500
19	98	2,690	e157	89	93	154	111	70	58	50	46	832
20	92	547	e146	78	95	133	105	64	53	44	45	595
21	87	345	146	75	115	153	100	72	52	41	43	461
22	82	270	128	73	102	118	93	66	53	39	43	378
23	79	230	128	72	97	106	91	73	50	37	44	324
24	76	222	195	68	95	102	86	67	51	73	57	286
25	74	194	147	73	93	97	82	60	67	241	53	255
26	93	174	134	72	92	93	151	61	105	77	47	231
27	157	161	127	75	92	89	116	66	63	87	45	378
28	109	175	121	71	90	86	93	57	58	70	50	e1,200
29	95	157	117	e87	92	84	87	56	55	58	45	e520
30	87	143	137	65	---	88	84	57	54	82	52	e400
31	82	---	118	64	---	108	---	105	---	117	73	---
TOTAL	3,811	6,875	4,842	2,754	3,781	3,583	3,585	2,294	1,858	2,018	1,741	38,025
MEAN	123	229	156	88.8	130	116	120	74.0	61.9	65.1	56.2	1,268
MAX	399	2,690	391	150	695	223	491	105	105	241	125	8,390
MIN	69	69	112	64	62	84	80	56	43	37	42	130
CFSM	2.84	5.29	3.61	2.05	3.01	2.67	2.76	1.71	1.43	1.50	1.30	29.3
IN.	3.27	5.91	4.16	2.37	3.25	3.08	3.08	1.97	1.60	1.73	1.50	32.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

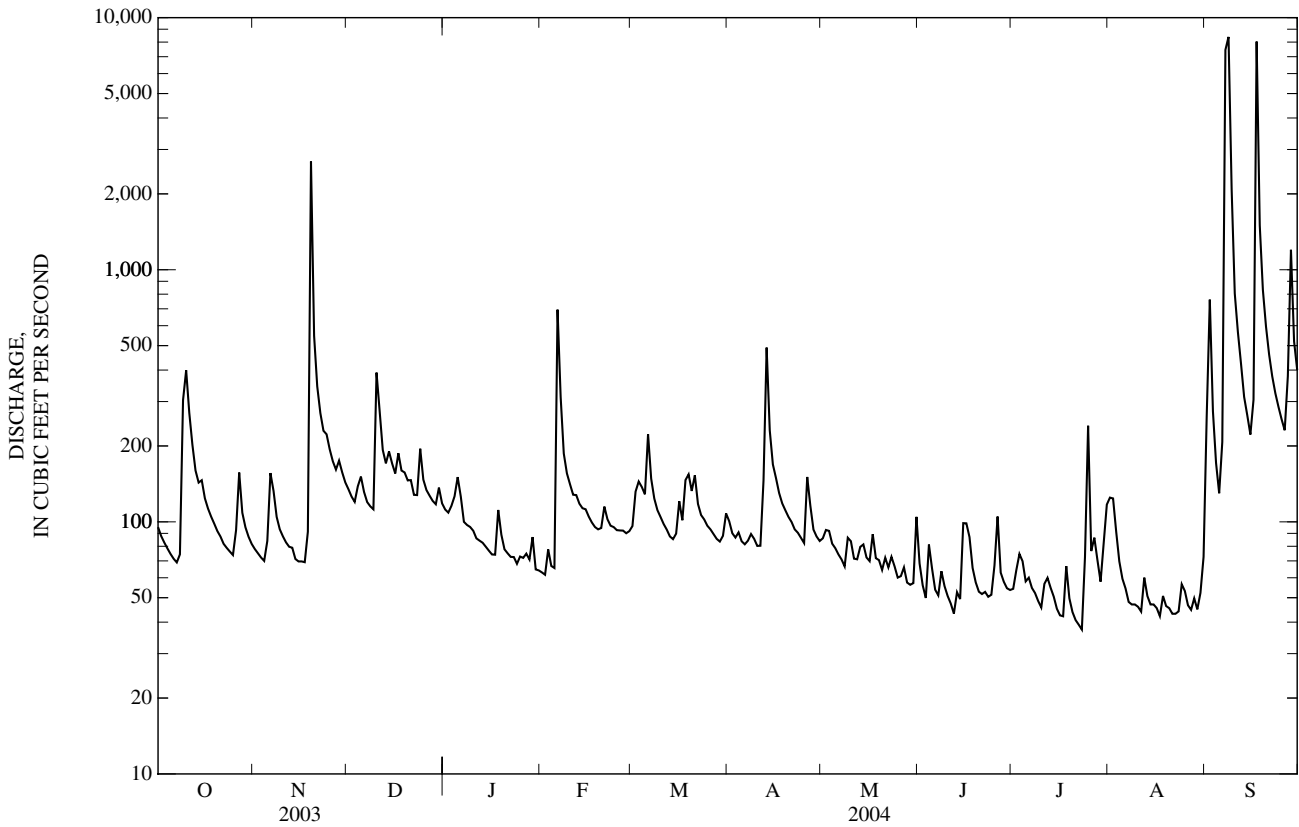
MEAN	121	144	136	160	179	222	189	153	122	82.4	93.3	127
MAX	359	714	277	428	466	596	361	373	415	199	323	1,268
(WY)	(1996)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(1967)	(1994)	(2004)
MIN	15.8	24.9	41.5	62.2	76.6	69.1	59.7	53.1	34.8	23.3	22.5	14.6
(WY)	(1994)	(1999)	(1966)	(1966)	(1963)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1998)

03463300 SOUTH TOE RIVER NEAR CELO, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	69,903		75,167		144	
ANNUAL MEAN	192		205		79.4	
HIGHEST ANNUAL MEAN					227	1979
LOWEST ANNUAL MEAN					79.4	1988
HIGHEST DAILY MEAN	2,690	Nov 19	8,390	Sep 8	9,960	Nov 6, 1977
LOWEST DAILY MEAN	57	Sep 21	37	Jul 23	9.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	70	Jul 24	45	Aug 17	11	Sep 20, 1999
MAXIMUM PEAK FLOW			28,000	Sep 8	32,900*	Nov 6, 1977
MAXIMUM PEAK STAGE			15.50*	Sep 8	17.41*	Nov 6, 1977
INSTANTANEOUS LOW FLOW			35	Jul 24	9.4*	Sep 25, 1999
ANNUAL RUNOFF (CFSM)	4.42		4.74		3.32	
ANNUAL RUNOFF (INCHES)	60.06		64.58		45.17	
10 PERCENT EXCEEDS	340		257		259	
50 PERCENT EXCEEDS	145		90		98	
90 PERCENT EXCEEDS	77		51		36	

* See REMARKS.

e Estimated.



03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC

LOCATION.--Lat 36°14'21", long 81°49'20", Watauga County, Hydrologic Unit 06010103, on right bank 250 ft upstream from bridge on Secondary Road 1121, 300 ft downstream of Cove Creek, 2.3 mi southwest of Sugar Grove, and at mile 64.4.

DRAINAGE AREA.--92.1 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1306.

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

GAGE.--Water-stage recorder. Datum of gage is 2,607.84 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 7,300 ft³/s on basis of slope-area measurement of peak flow, from profile based on floodmarks. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Sept. 1.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 22.1 ft, from floodmarks on barn 0.25 mi upstream from station, as witnessed by local resident; discharge, 28,000 ft³/s, from rating curve extended above 4,900 ft³/s, on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0900	17,000	19.07	Sep 17	0900	23,000	21.90

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	57	172	187	e100	182	185	145	153	130	123	42
2	87	57	160	180	e98	219	170	144	119	151	123	602
3	80	56	155	177	228	258	176	137	106	233	91	241
4	78	54	168	181	144	254	174	125	254	252	71	115
5	76	95	204	192	134	245	160	120	203	196	69	88
6	73	229	195	182	764	310	149	114	150	155	74	76
7	70	137	176	164	720	281	141	107	131	138	59	707
8	69	100	166	e157	385	260	137	103	192	121	55	8,970
9	75	84	161	157	290	233	132	122	214	109	54	1,610
10	97	77	453	148	252	216	125	119	172	101	50	695
11	84	73	574	e139	226	199	124	114	141	99	48	465
12	76	72	348	e135	215	185	264	115	145	107	98	356
13	71	78	285	137	202	168	896	142	244	98	95	299
14	70	66	276	133	197	158	690	119	198	87	66	264
15	86	67	247	e126	196	157	415	106	221	79	58	237
16	71	68	228	125	188	183	315	99	598	74	54	222
17	68	73	303	122	175	163	263	107	275	78	53	8,730
18	66	78	271	146	170	156	226	158	200	96	57	2,270
19	63	6,220	256	144	171	151	201	183	166	76	49	904
20	61	1,130	226	126	180	142	187	126	145	69	46	575
21	60	541	e202	e120	239	148	175	109	199	64	48	437
22	58	374	e195	e114	233	136	159	132	211	63	50	358
23	57	291	220	e112	215	130	149	191	170	64	54	309
24	55	257	473	e110	207	127	142	165	159	61	59	280
25	56	227	375	119	206	123	139	125	207	108	54	257
26	58	205	296	138	197	120	238	116	344	72	47	234
27	85	191	257	122	192	118	210	145	227	114	44	222
28	77	210	232	e116	182	116	171	130	187	87	59	1,000
29	67	206	216	e112	183	113	155	124	160	72	49	517
30	61	180	225	e110	---	118	147	107	141	70	44	390
31	59	---	200	e108	---	176	---	201	---	91	41	---
TOTAL	2,207	11,553	7,915	4,339	6,889	5,545	6,815	4,050	6,032	3,315	1,942	31,472
MEAN	71.2	385	255	140	238	179	227	131	201	107	62.6	1,049
MAX	97	6,220	574	192	764	310	896	201	598	252	123	8,970
MIN	55	54	155	108	98	113	124	99	106	61	41	42
CFSM	0.77	4.18	2.77	1.52	2.58	1.94	2.47	1.42	2.18	1.16	0.68	11.4
IN.	0.89	4.67	3.20	1.75	2.78	2.24	2.75	1.64	2.44	1.34	0.78	12.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

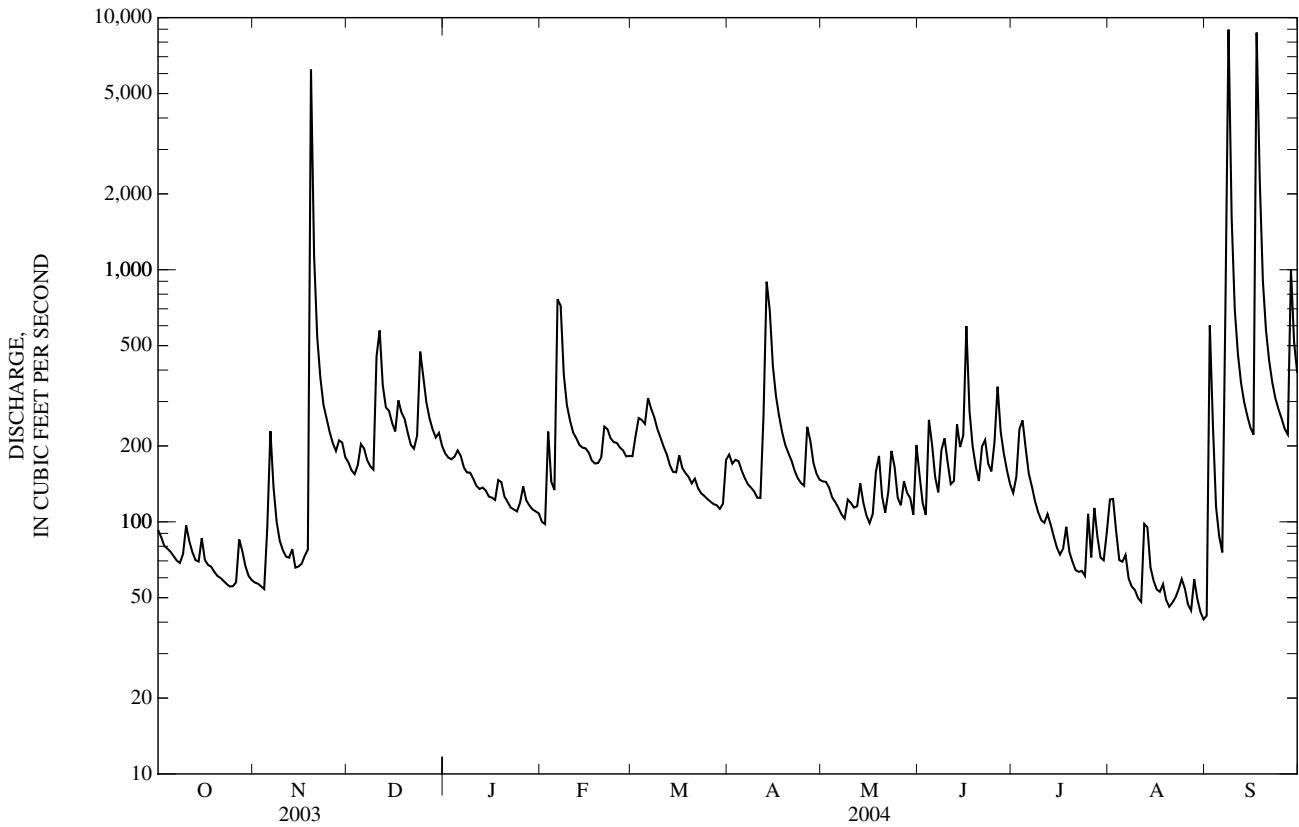
MEAN	109	153	172	210	263	303	258	180	146	112	119	122
MAX	380	662	434	817	643	858	689	411	583	461	1,169	1,049
(WY)	(1965)	(1978)	(1951)	(1995)	(1998)	(1979)	(1987)	(1973)	(1992)	(1989)	(1940)	(2004)
MIN	19.2	34.6	45.6	55.5	67.5	77.0	82.1	67.5	41.4	35.0	23.9	18.1
(WY)	(1955)	(1982)	(1964)	(1956)	(1941)	(1988)	(1986)	(1941)	(1988)	(1944)	(2002)	(1954)

03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	87,257		92,074		177	
ANNUAL MEAN	239		252		84.7	
HIGHEST ANNUAL MEAN					297	1979
LOWEST ANNUAL MEAN					84.7	1988
HIGHEST DAILY MEAN	6,220	Nov 19	8,970	Sep 8	15,900	Aug 13, 1940
LOWEST DAILY MEAN	54	Nov 4	41	Aug 31	8.1	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	58	Oct 20	47	Aug 26	11	Sep 7, 2002
MAXIMUM PEAK FLOW			23,000	Sep 17	50800*	Aug 13, 1940
MAXIMUM PEAK STAGE			21.90	Sep 17	29.60	Aug 13, 1940
INSTANTANEOUS LOW FLOW			41*	Aug 31	6.5*	Jan 1, 1954
ANNUAL RUNOFF (CFSM)	2.60		2.73		1.92	
ANNUAL RUNOFF (INCHES)	35.24		37.19		26.09	
10 PERCENT EXCEEDS	377		305		324	
50 PERCENT EXCEEDS	180		146		115	
90 PERCENT EXCEEDS	74		61		39	

* See REMARKS.

e Estimated.



03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC

LOCATION.--Lat 35°09'00", long 83°22'47", Macon County, Hydrologic Unit 06010202, on left bank 600 ft upstream from Owenby Branch, 0.5 mi upstream from Cartoogechaye Creek, 2 mi north of Prentiss, and at mile 119.5.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 1236: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred Aug. 30, 31, Sept. 16, 17, 2000. Minimum discharge for current water year also occurred Aug. 20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1898 reached a stage of about 15 ft, from profiles by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	246	510	393	317	338	279	274	239	339	287	205
2	293	240	468	384	369	363	267	372	204	300	288	188
3	284	235	443	378	754	382	263	360	191	345	307	166
4	280	233	524	372	496	351	255	307	186	289	229	151
5	275	440	550	449	442	341	248	289	180	258	210	144
6	272	646	482	447	1,180	408	245	276	175	236	203	138
7	268	486	448	394	1,120	378	244	261	173	224	180	742
8	268	383	427	381	743	351	243	250	189	205	171	3,050
9	281	339	411	381	621	343	238	273	203	205	164	1,760
10	273	315	826	368	559	343	233	278	185	192	159	774
11	280	300	833	354	514	330	235	248	193	193	155	569
12	273	290	620	348	596	321	252	243	177	189	180	460
13	260	283	553	342	530	312	715	298	247	217	178	404
14	256	264	617	337	491	307	458	287	209	179	155	367
15	264	261	544	331	492	325	357	257	590	169	149	339
16	247	255	504	323	490	349	324	247	455	161	144	607
17	244	251	589	319	450	325	304	260	312	165	143	7,830
18	242	317	520	385	431	310	291	253	259	269	146	3,420
19	237	2,370	495	348	417	309	280	251	232	180	137	1,360
20	233	1,270	463	325	408	298	272	237	210	164	137	1,060
21	230	745	440	318	406	319	265	232	202	156	254	890
22	226	599	431	313	386	293	257	220	207	150	166	764
23	220	518	426	306	377	286	249	218	199	170	150	672
24	220	551	531	303	372	283	243	215	242	146	164	605
25	218	502	449	412	365	279	238	202	283	163	166	552
26	360	452	425	477	367	273	415	196	358	186	146	512
27	493	449	411	404	369	270	372	192	254	311	151	515
28	321	840	400	364	359	267	295	185	259	214	180	1,300
29	284	691	391	345	346	262	275	184	251	181	153	742
30	263	568	469	346	---	292	270	257	276	440	153	608
31	254	---	410	334	---	298	---	315	---	477	176	---
TOTAL	8,422	15,339	15,610	11,281	14,767	9,906	8,882	7,937	7,340	7,073	5,581	30,894
MEAN	272	511	504	364	509	320	296	256	245	228	180	1,030
MAX	493	2,370	833	477	1,180	408	715	372	590	477	307	7,830
MIN	218	233	391	303	317	262	233	184	173	146	137	138
CFSM	1.94	3.65	3.60	2.60	3.64	2.28	2.11	1.83	1.75	1.63	1.29	7.36
IN.	2.24	4.08	4.15	3.00	3.92	2.63	2.36	2.11	1.95	1.88	1.48	8.21

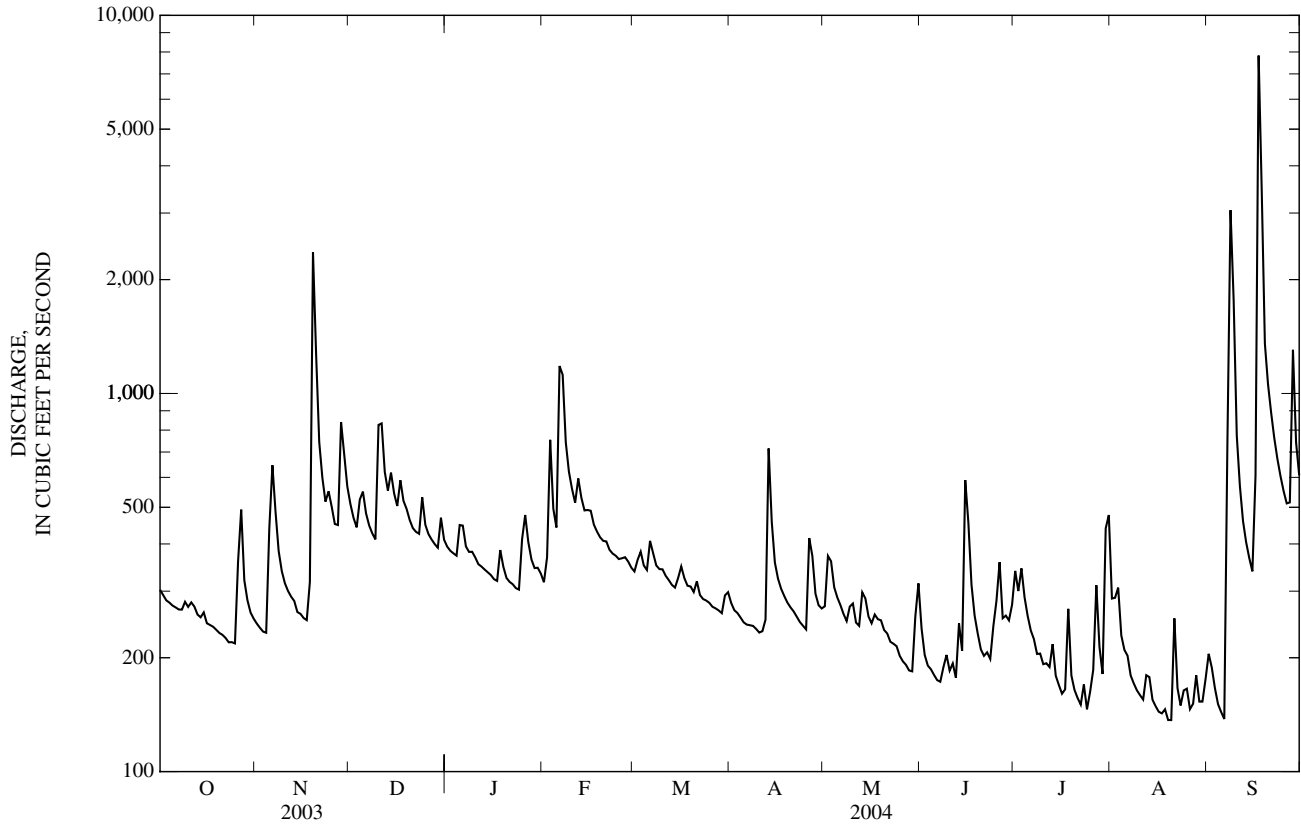
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

MEAN	247	302	390	481	557	597	552	426	339	256	237	236
MAX	1,078	815	841	1,008	1,252	1,199	1,014	999	694	772	695	1,030
(WY)	(1965)	(1980)	(1962)	(1946)	(1990)	(1952)	(1964)	(1976)	(1949)	(1989)	(1974)	(2004)
MIN	70.5	101	153	120	222	244	172	157	110	94.8	78.3	80.2
(WY)	(1955)	(1955)	(2001)	(1981)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(1986)	(1954)

03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1944 - 2004	
ANNUAL TOTAL	174,611		143,032			
ANNUAL MEAN	478		391		384	
HIGHEST ANNUAL MEAN					588	
LOWEST ANNUAL MEAN					173	
HIGHEST DAILY MEAN	2,370	Nov 19	7,830	Sep 17	7,830	Sep 17, 2004
LOWEST DAILY MEAN	218	Oct 25	137	Aug 19	52	Aug 30, 2000
ANNUAL SEVEN-DAY MINIMUM	226	Oct 19	144	Aug 14	58	Sep 14, 2000
MAXIMUM PEAK FLOW			11,200	Sep 17	12,200	Oct 4, 1964
MAXIMUM PEAK STAGE			15.92	Sep 17	17.30	Oct 4, 1964
INSTANTANEOUS LOW FLOW			132*	Aug 19	52*	Sep 17, 1999
ANNUAL RUNOFF (CFSM)	3.42		2.79		2.75	
ANNUAL RUNOFF (INCHES)	46.40		38.01		37.31	
10 PERCENT EXCEEDS	668		575		692	
50 PERCENT EXCEEDS	431		298		305	
90 PERCENT EXCEEDS	274		178		128	

* See REMARKS.



03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'32", long 83°23'39", Macon County, Hydrologic Unit 06010202, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi downstream of unnamed creek, 1.8 mi south of Franklin, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--57.1 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1958, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for current water year and period of record from rating curve extended above 3,300 ft³/s on basis of contracted-opening measurement of peak flow. Minimum discharge for period of record also occurred Oct. 8, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority; discharge, about 7,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0545	2,420	10.76	Sep 17	0545	6,440	14.12

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	62	151	120	110	111	113	115	112	121	97	75
2	70	61	135	116	159	164	109	163	93	133	98	67
3	68	59	125	114	242	172	107	147	86	169	151	61
4	68	59	159	111	167	148	104	130	84	125	91	57
5	67	149	161	218	154	137	100	122	81	109	91	54
6	67	117	142	198	492	256	99	116	79	116	87	52
7	67	91	129	161	436	222	98	109	77	98	74	460
8	67	80	121	147	272	189	98	118	82	87	70	1,460
9	72	74	115	142	217	176	95	125	82	81	66	488
10	70	70	338	130	191	164	93	115	83	80	65	269
11	71	68	262	122	173	152	94	103	80	76	67	199
12	67	67	195	118	223	144	102	100	75	73	83	165
13	64	66	168	113	184	138	405	157	98	72	71	146
14	64	63	198	111	170	133	220	132	82	70	65	131
15	64	62	164	108	177	146	169	113	104	67	61	120
16	61	62	151	103	166	168	148	105	92	64	60	299
17	60	62	172	103	154	146	135	105	79	78	59	3,340
18	60	127	150	137	147	139	127	103	76	94	58	963
19	58	949	146	118	141	135	121	104	74	69	56	582
20	57	300	135	e111	137	130	117	102	69	65	56	405
21	58	188	126	e107	135	139	113	98	72	63	90	314
22	56	149	124	e103	127	125	108	92	74	59	74	260
23	55	129	125	e101	124	122	105	94	72	58	62	226
24	55	155	166	e98	123	119	102	89	90	68	67	203
25	54	133	138	198	119	117	100	86	133	88	73	185
26	112	120	129	210	122	115	199	84	170	149	61	173
27	126	132	123	162	123	113	144	83	129	136	59	188
28	82	291	118	139	117	112	124	81	150	95	56	447
29	72	227	115	128	112	109	117	80	145	83	59	224
30	66	176	149	122	---	122	114	143	123	102	68	189
31	64	---	125	115	---	121	---	181	---	120	67	---
TOTAL	2,115	4,348	4,755	4,084	5,214	4,484	3,880	3,495	2,846	2,868	2,262	11,802
MEAN	68.2	145	153	132	180	145	129	113	94.9	92.5	73.0	393
MAX	126	949	338	218	492	256	405	181	170	169	151	3,340
MIN	54	59	115	98	110	109	93	80	69	58	56	52
CFSM	1.19	2.54	2.69	2.31	3.15	2.53	2.27	1.97	1.66	1.62	1.28	6.89
IN.	1.38	2.83	3.10	2.66	3.40	2.92	2.53	2.28	1.85	1.87	1.47	7.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

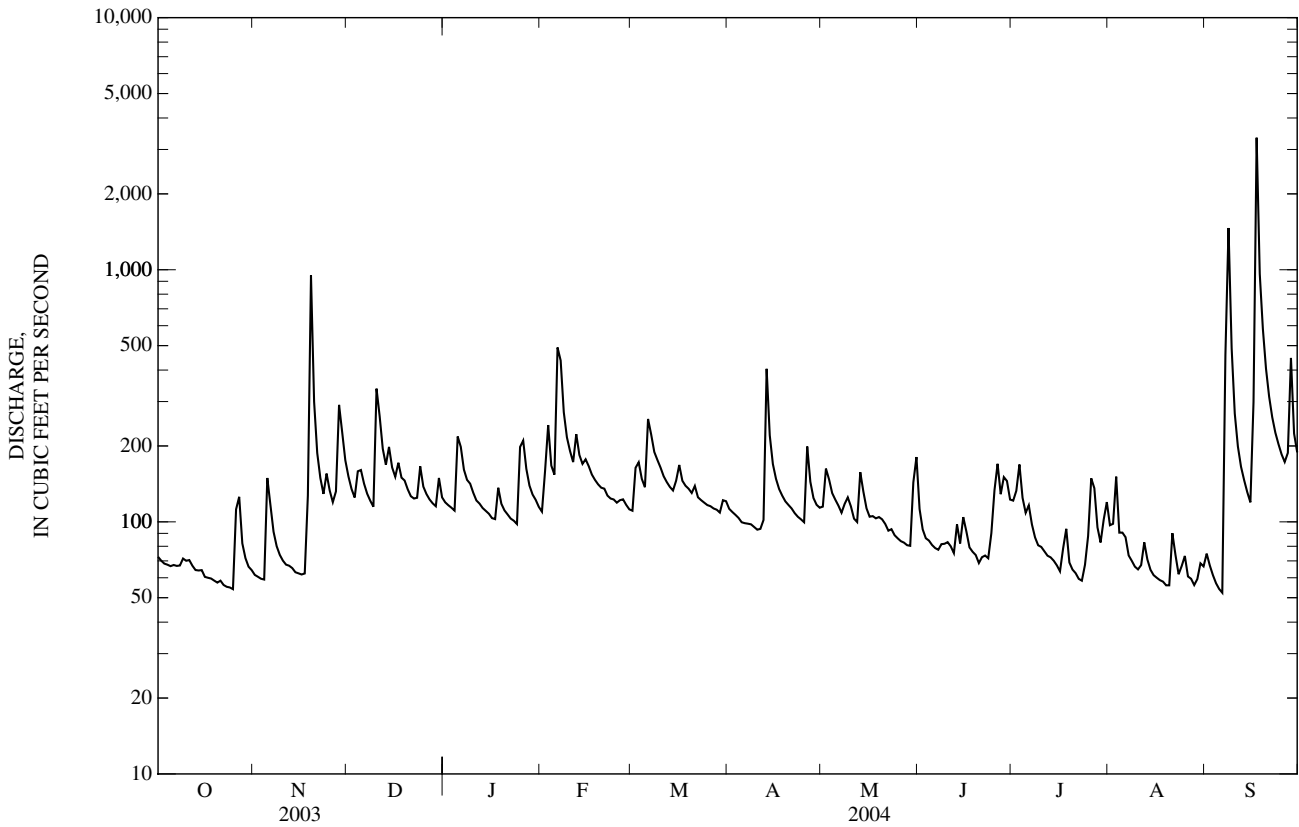
MEAN	82.4	108	147	189	219	238	200	156	118	88.3	81.0	79.8
MAX	295	266	317	336	460	440	375	339	259	210	185	393
(WY)	(1965)	(1993)	(1962)	(1996)	(1990)	(1980)	(1964)	(1976)	(1989)	(2003)	(1994)	(2004)
MIN	24.7	41.2	52.2	55.2	99.1	84.7	72.9	56.3	42.3	32.7	28.7	25.6
(WY)	(2001)	(2002)	(1966)	(1981)	(2002)	(1988)	(1986)	(2001)	(1988)	(2000)	(2000)	(1999)

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1961 - 2004	
ANNUAL TOTAL	62,230		52,153		142	
ANNUAL MEAN	170		142		69.9	
HIGHEST ANNUAL MEAN					204	1990
LOWEST ANNUAL MEAN					69.9	1986
HIGHEST DAILY MEAN	1,310	May 7	3,340	Sep 17	3,340	Sep 17, 2004
LOWEST DAILY MEAN	54	Oct 25	52	Sep 6	18	Oct 7, 1986
ANNUAL SEVEN-DAY MINIMUM	56	Oct 19	56	Oct 19	19	Sep 14, 2000
MAXIMUM PEAK FLOW			6,440*	Sep 17	6,440*	Sep 17, 2004
MAXIMUM PEAK STAGE			14.12	Sep 17	14.12	Sep 17, 2004
INSTANTANEOUS LOW FLOW			49	Sep 6	16*	Oct 7, 1986
ANNUAL RUNOFF (CFSM)	2.99		2.50		2.48	
ANNUAL RUNOFF (INCHES)	40.54		33.98		33.71	
10 PERCENT EXCEEDS	283		198		259	
50 PERCENT EXCEEDS	140		115		106	
90 PERCENT EXCEEDS	67		64		47	

* See REMARKS.

e Estimated.



0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC

LOCATION.--Lat 35°04'34", long 83°14'56", Macon County, Hydrologic Unit 06010202, at bridge on Secondary Road 1620, downstream from Long Branch and approximately 3.4 mi northwest of Highlands.

DRAINAGE AREA.--18.8 mi².

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,230 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for current water year and period of record, from rating curve extended above 2,300 ft³/s, on basis of peak flow over dam at Lake Sequoyah. Minimum discharge for period of record also occurred Sept. 12, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 7	2245	2,800	12.11	Sep 17	0600	5,300	16.15

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 2001, 2002, and 2003.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
2001	Sep. 24, 2001	738	7.10
2002	Sep. 27, 2002	1,850	10.18
2003	Sep. 22, 2003	1,460	9.26

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	41	110	77	50	55	37	47	45	65	165	72
2	51	40	102	74	88	61	33	104	36	68	193	128
3	48	38	95	72	157	57	32	73	33	87	133	61
4	47	37	123	70	86	51	31	58	30	72	92	48
5	46	110	120	92	85	51	30	54	28	59	79	43
6	45	180	102	82	568	70	29	49	26	54	71	41
7	44	90	93	71	228	58	31	45	26	47	62	1,030
8	45	71	88	68	151	e54	29	42	46	42	58	1,800
9	48	62	84	67	128	57	28	43	37	42	54	412
10	46	56	379	63	114	47	27	44	31	40	52	252
11	56	52	192	61	103	50	27	40	32	37	50	192
12	49	48	142	60	119	47	37	47	29	51	59	161
13	44	44	126	58	97	46	253	104	31	38	52	142
14	45	41	162	57	87	45	94	77	39	34	47	127
15	44	40	125	56	88	49	71	56	119	31	44	116
16	37	39	113	54	82	50	63	52	141	29	42	461
17	34	39	148	54	76	45	57	60	62	31	42	2,840
18	34	75	113	75	73	43	54	81	50	42	41	592
19	34	1,220	107	60	70	43	50	68	44	31	38	360
20	33	240	98	54	68	42	47	54	40	27	37	274
21	32	166	92	53	67	46	45	48	38	26	53	223
22	33	138	90	51	63	40	43	46	57	24	44	187
23	32	120	89	49	63	38	40	47	42	23	39	163
24	32	152	129	49	63	38	38	42	47	22	37	146
25	33	122	93	e58	59	37	37	39	74	22	38	132
26	90	106	86	e71	59	e34	89	36	78	30	35	122
27	100	107	83	70	57	34	62	35	52	283	35	156
28	55	254	79	59	54	33	49	33	55	100	43	403
29	48	144	77	55	52	32	46	32	55	77	46	166
30	44	121	109	53	---	41	46	51	52	341	54	143
31	42	---	82	51	---	47	---	76	---	175	46	---
TOTAL	1,424	3,993	3,631	1,944	3,055	1,441	1,555	1,683	1,475	2,050	1,881	10,993
MEAN	45.9	133	117	62.7	105	46.5	51.8	54.3	49.2	66.1	60.7	366
MAX	100	1,220	379	92	568	70	253	104	141	341	193	2,840
MIN	32	37	77	49	50	32	27	32	26	22	35	41
CFSM	2.45	7.09	6.24	3.34	5.62	2.48	2.76	2.89	2.62	3.53	3.23	19.5
IN.	2.82	7.92	7.20	3.85	6.06	2.86	3.08	3.34	2.92	4.07	3.73	21.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

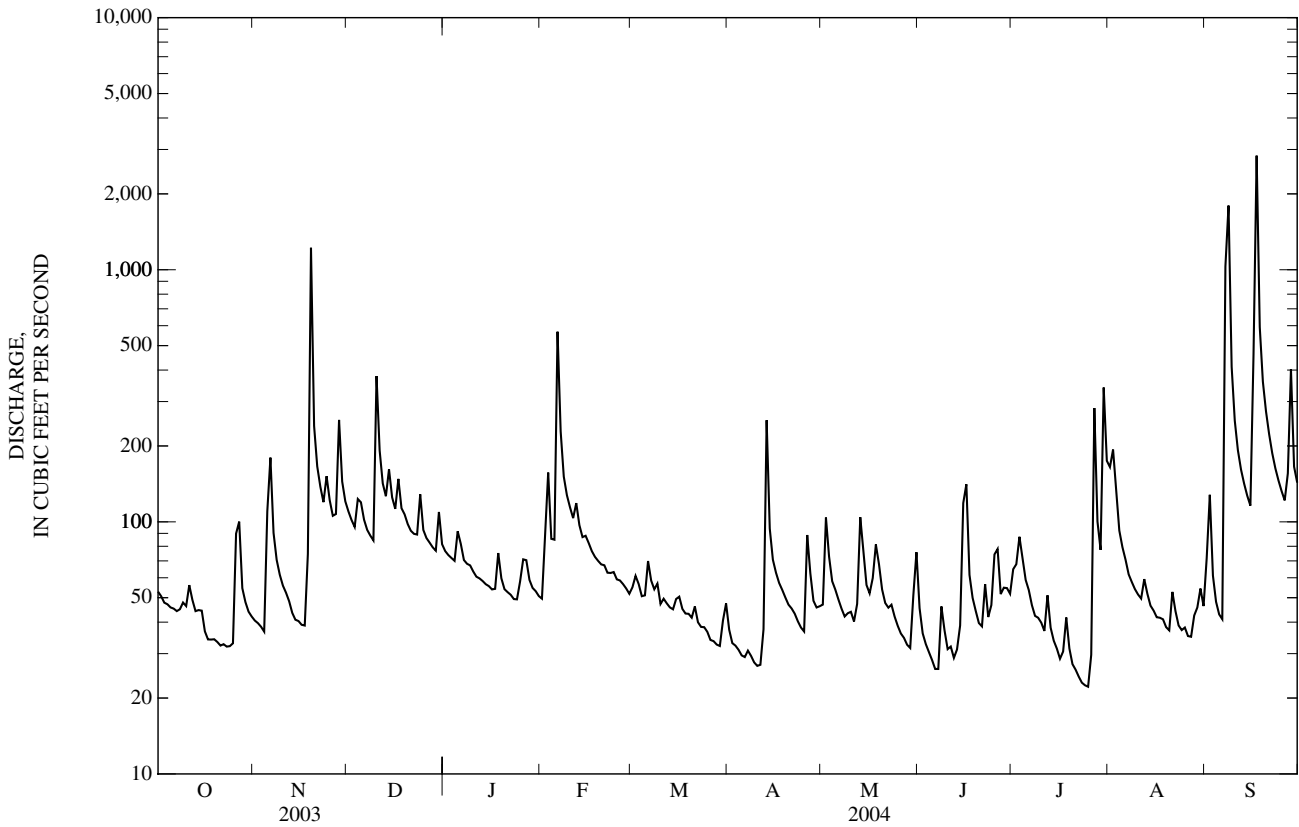
	2001	2002	2003	2004	2001	2002	2003	2004	2001	2002	2003	2004
MEAN	56.0	88.1	94.1	71.8	88.0	75.8	75.4	83.0	56.1	56.4	50.0	154
MAX	65.4	133	117	77.9	105	97.0	99.0	131	88.5	97.6	76.5	366
(WY)	(2003)	(2004)	(2004)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	45.9	40.1	56.6	62.7	63.4	46.5	51.8	54.3	30.5	22.2	15.3	48.9
(WY)	(2004)	(2002)	(2002)	(2004)	(2002)	(2004)	(2004)	(2004)	(2002)	(2002)	(2002)	(2001)

0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	35,046		35,125		82.3	
ANNUAL MEAN	96.0		96.0		96.0	
HIGHEST ANNUAL MEAN					57.3	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	1,220	Nov 19	2,840	Sep 17	2,840	Sep 17, 2004
LOWEST DAILY MEAN	32	Oct 21	22	Jul 24	7.9	Aug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	33	Oct 19	25	Jul 20	8.5	Aug 9, 2002
MAXIMUM PEAK FLOW			5,300*	Sep 17	5,300*	Sep 17, 2004
MAXIMUM PEAK STAGE			16.15	Sep 17	16.15	Sep 17, 2004
INSTANTANEOUS LOW FLOW			19	Jul 24	6.7*	Aug 22, 2002
ANNUAL RUNOFF (CFSM)	5.12		5.12		4.39	
ANNUAL RUNOFF (INCHES)	69.49		69.65		59.58	
10 PERCENT EXCEEDS	144		149		132	
50 PERCENT EXCEEDS	79		54		61	
90 PERCENT EXCEEDS	46		33		28	

* See REMARKS.

e Estimated.



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC

LOCATION.--Lat 35°20'11", long 83°31'37", Swain County, Hydrologic Unit 06010202, on left bank on Secondary Road 1113, 0.8 mi downstream of DeHart Creek, 0.8 mi north of Needmore, 2.4 mi downstream of Brush Creek, 6.3 mi downstream of Tellico Creek, and at mile 92.9.

DRAINAGE AREA.--436 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to December 1981, October 1983 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation caused by Porters Bend power plant at Lake Emory, 20 mi upstream. Minimum discharge for period of record also occurred Nov. 8, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 and 11.5 ft, respectively, from flood profiles by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	662	553	1,190	961	871	892	761	692	688	730	903	673
2	666	545	1,080	936	889	979	730	800	531	714	874	553
3	598	536	1,010	923	2,060	1,130	721	964	499	782	992	548
4	590	530	1,130	915	1,420	994	708	752	487	747	699	438
5	601	910	1,350	1,100	1,210	947	699	702	473	642	613	407
6	596	1,320	1,170	1,300	2,890	1,250	692	674	459	645	605	382
7	570	1,150	1,080	1,060	3,860	1,250	681	641	464	573	526	1,370
8	606	848	1,030	988	2,140	1,060	675	625	470	517	493	10,400
9	617	751	981	965	1,670	1,010	668	675	524	491	469	5,710
10	585	689	1,570	935	1,490	988	671	673	536	512	455	2,370
11	627	662	2,470	902	1,350	932	658	613	494	471	459	1,700
12	631	641	1,560	884	1,540	899	665	604	480	498	523	1,360
13	558	630	1,330	874	1,480	863	1,920	644	503	506	537	1,170
14	558	596	1,470	862	1,320	826	1,440	796	518	463	458	1,060
15	561	596	1,350	862	1,300	860	936	636	875	444	431	956
16	543	589	1,220	841	1,340	998	830	613	989	408	444	1,200
17	530	603	1,380	827	1,200	954	765	627	671	431	383	16,400
18	536	600	1,260	914	1,140	893	722	639	558	763	412	11,800
19	525	6,640	1,190	929	1,100	885	694	660	505	487	400	4,610
20	519	3,780	1,130	852	1,080	852	686	599	457	429	380	3,090
21	514	1,790	1,060	831	1,070	890	669	594	445	404	587	2,340
22	508	1,390	1,030	820	1,030	826	646	583	465	392	499	1,840
23	495	1,180	1,010	811	1,000	792	633	587	464	401	424	1,690
24	493	1,140	1,260	802	992	783	622	572	496	385	412	1,540
25	492	1,230	1,130	1,000	973	772	615	552	555	445	442	1,400
26	595	1,060	1,040	1,520	960	758	1,060	525	1,000	672	408	1,300
27	1,270	1,040	996	1,150	976	748	1,110	512	620	1,220	396	1,230
28	774	1,690	972	1,020	947	744	782	506	703	750	440	3,440
29	644	1,720	946	962	923	731	708	507	743	571	450	1,990
30	593	1,320	1,110	942	---	759	682	567	627	893	440	1,550
31	568	---	1,020	911	---	801	---	844	---	1,360	412	---
TOTAL	18,625	36,729	37,525	29,599	40,221	28,066	23,849	19,978	17,299	18,746	15,966	84,517
MEAN	601	1,224	1,210	955	1,387	905	795	644	577	605	515	2,817
MAX	1,270	6,640	2,470	1,520	3,860	1,250	1,920	964	1,000	1,360	992	16,400
MIN	492	530	946	802	871	731	615	506	445	385	380	382
CFSM	1.38	2.81	2.78	2.19	3.18	2.08	1.82	1.48	1.32	1.39	1.18	6.46
IN.	1.59	3.13	3.20	2.53	3.43	2.39	2.03	1.70	1.48	1.60	1.36	7.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, @ BY WATER YEAR (WY)

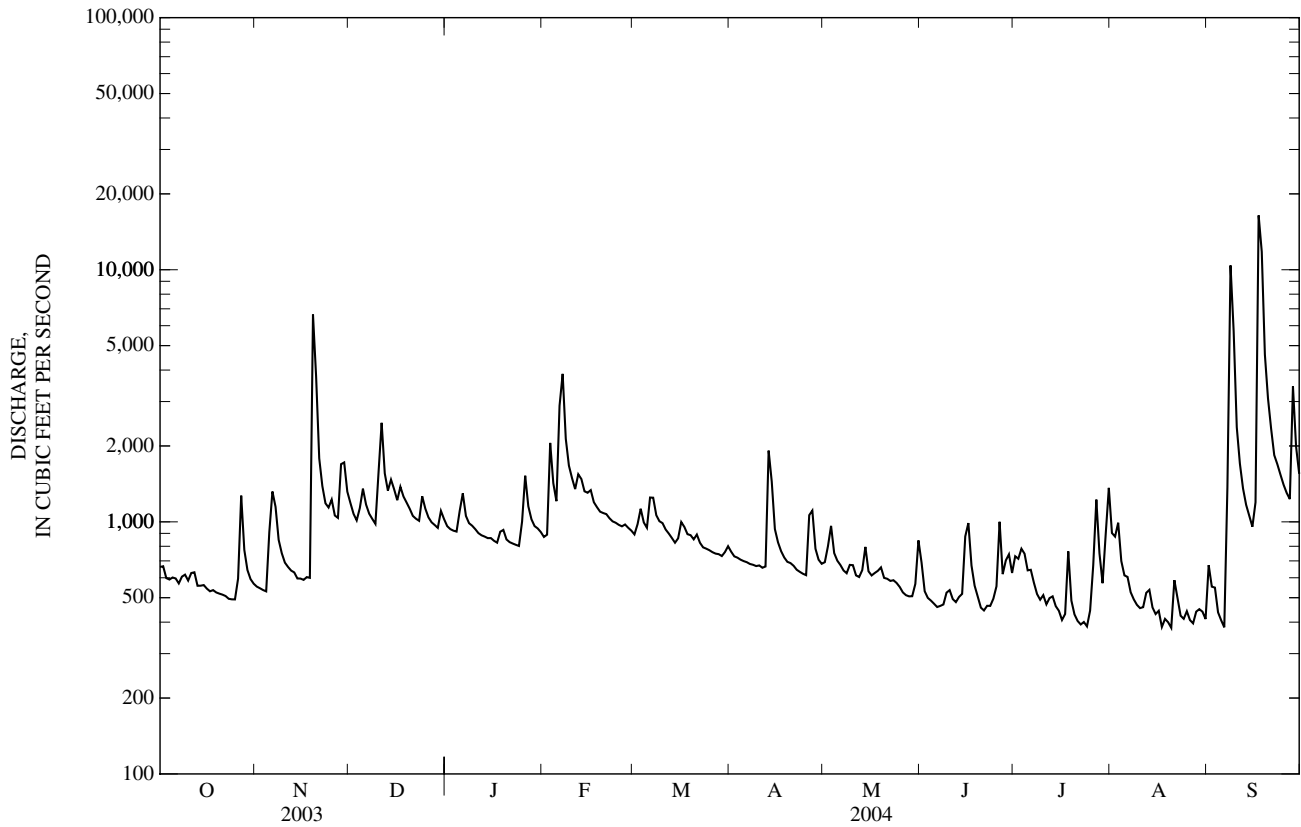
MEAN	638	801	1,033	1,340	1,560	1,704	1,508	1,177	917	699	634	618
MAX	2,557	2,169	2,231	2,570	3,718	3,372	2,746	2,573	2,061	2,136	1,670	2,817
(WY)	(1965)	(1980)	(1962)	(1946)	(1990)	(1990)	(1964)	(1976)	(1949)	(1989)	(1967)	(2004)
MIN	192	282	368	349	660	596	553	458	351	238	213	201
(WY)	(1955)	(1955)	(1966)	(1981)	(1986)	(1988)	(1986)	(2001)	(1988)	(1986)	(1986)	(1999)

03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1944 - 2004 [@]	
ANNUAL TOTAL	468,386		371,120		1,053	
ANNUAL MEAN	1,283		1,014		1,565	
HIGHEST ANNUAL MEAN					495	1973
LOWEST ANNUAL MEAN					1986	
HIGHEST DAILY MEAN	9,070	May 7	16,400	Sep 17	17,200	Oct 5, 1964
LOWEST DAILY MEAN	492	Oct 25	380	Aug 20	71	Nov 7, 1954
ANNUAL SEVEN-DAY MINIMUM	507	Oct 19	415	Aug 14	142	Oct 2, 1986
MAXIMUM PEAK FLOW			20,900	Sep 17	22,100	Oct 5, 1964
MAXIMUM PEAK STAGE			12.33	Sep 17	12.87	Oct 5, 1964
INSTANTANEOUS LOW FLOW			302	Jul 23	52*	Nov 7, 1954
ANNUAL RUNOFF (CFSM)	2.94		2.33		2.41	
ANNUAL RUNOFF (INCHES)	39.96		31.66		32.81	
10 PERCENT EXCEEDS	1,900		1,410		1,900	
50 PERCENT EXCEEDS	1,140		760		810	
90 PERCENT EXCEEDS	599		465		362	

[@] See PERIOD OF RECORD.

* See REMARKS.



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC—Continued

PRECIPITATION RECORDS

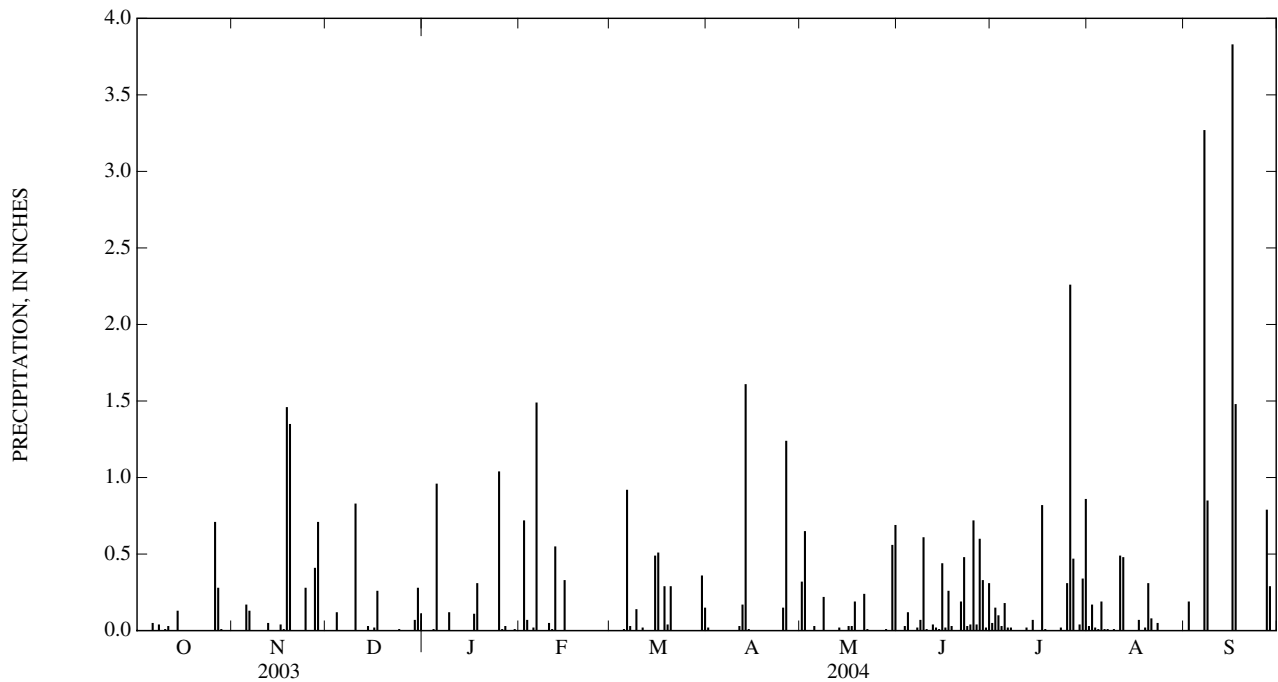
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.32	0.00	0.05	0.03	0.00
2	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.65	0.00	0.15	0.17	0.19
3	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.03	0.10	0.02	0.00
4	0.00	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.12	0.03	0.01	0.00
5	0.00	0.17	0.00	0.96	0.02	0.01	0.00	0.03	0.00	0.18	0.19	0.00
6	0.05	0.13	0.00	0.00	1.49	0.92	0.00	0.00	0.00	0.02	0.01	0.00
7	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.02	0.01	3.27
8	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.07	0.00	0.00	0.85
9	0.00	0.00	0.00	0.12	0.00	0.14	0.00	0.00	0.61	0.00	0.01	0.00
10	0.01	0.00	0.83	0.00	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.03	0.00	0.00	0.00	0.01	0.02	0.03	0.00	0.00	0.00	0.49	0.00
12	0.00	0.05	0.00	0.00	0.55	0.00	0.17	0.00	0.04	0.02	0.48	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	1.61	0.02	0.02	0.00	0.00	0.00
14	0.13	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.01	0.07	0.00	0.00
15	0.00	0.00	0.00	0.00	0.33	0.49	0.00	0.00	0.44	0.00	0.00	0.00
16	0.00	0.04	0.02	0.00	0.00	0.51	0.00	0.03	0.02	0.00	0.00	3.83
17	0.00	0.01	0.26	0.11	0.00	0.00	0.00	0.03	0.26	0.82	0.07	1.48
18	0.00	1.46	0.00	0.31	0.00	0.29	0.00	0.19	0.03	0.01	0.00	0.00
19	0.00	1.35	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.02	0.00
20	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.31	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.19	0.00	0.08	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.48	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.05	0.00
24	0.00	0.28	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
25	0.00	0.00	0.00	1.04	0.00	0.00	0.15	0.00	0.72	0.31	0.00	0.00
26	0.71	0.00	0.00	0.01	0.00	0.00	1.24	0.00	0.04	2.26	0.00	0.00
27	0.28	0.41	0.00	0.03	0.00	0.00	0.00	0.00	0.60	0.47	0.00	0.79
28	0.01	0.71	0.00	0.00	0.00	0.00	0.00	0.01	0.33	0.00	0.00	0.29
29	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.00	0.00
30	0.00	0.00	0.28	0.01	---	0.36	0.00	0.56	0.31	0.34	0.00	0.00
31	0.00	---	0.00	0.00	---	0.15	---	0.69	---	0.86	0.00	---
TOTAL	1.26	4.61	1.62	2.60	3.24	3.25	3.23	3.00	4.44	5.77	1.95	10.70

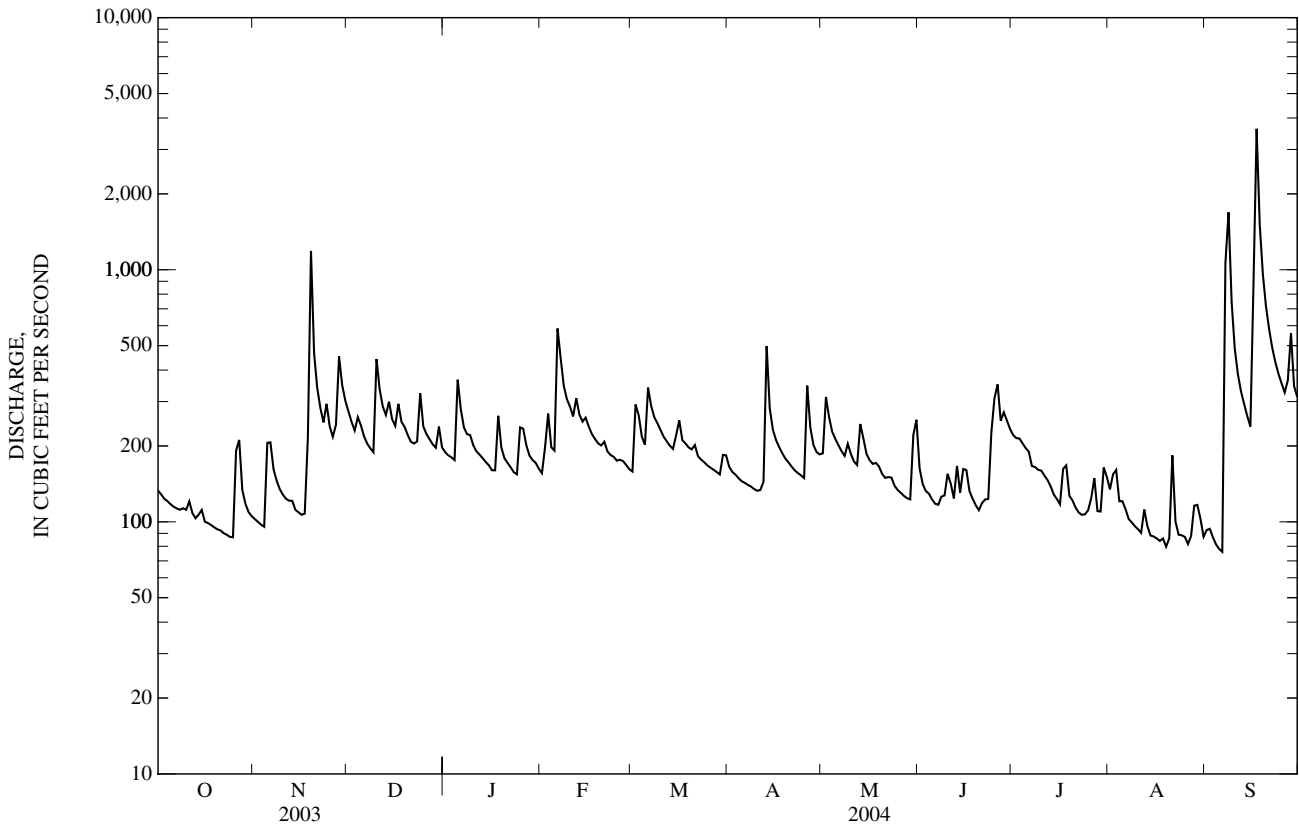


03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	90,879		79,844		204	
ANNUAL MEAN	249		218		109	
HIGHEST ANNUAL MEAN					280	1949
LOWEST ANNUAL MEAN					109	1986
HIGHEST DAILY MEAN	1,320	May 7	3,620	Sep 17	3,620	Sep 17, 2004
LOWEST DAILY MEAN	83	Sep 21	76	Sep 6	29	Nov 1, 1998
ANNUAL SEVEN-DAY MINIMUM	90	Oct 19	85	Aug 31	30	Oct 26, 1998
MAXIMUM PEAK FLOW			4,950	Sep 17	6,300*	Jun 16, 1949
MAXIMUM PEAK STAGE			8.29	Sep 17	9.70	Jun 16, 1949
INSTANTANEOUS LOW FLOW			74	Sep 6	29*	Oct 28, 1998
ANNUAL RUNOFF (CFSM)	4.80		4.20		3.93	
ANNUAL RUNOFF (INCHES)	65.14		57.23		53.33	
10 PERCENT EXCEEDS	401		316		370	
50 PERCENT EXCEEDS	218		176		162	
90 PERCENT EXCEEDS	112		100		68	

* See REMARKS.

e Estimated.



03508050 TUCKASEGEE RIVER AT SECONDARY ROAD 1172 NEAR CULLOWHEE, NC

LOCATION.--Lat 35°17'16", long 83°08'38", Jackson County, Hydrologic Unit 06010203, on left bank, 10 ft downstream from bridge on Secondary Road 1172, 3.0 mi southeast of Cullowhee and at river mile 47.3.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--September 2004

GAGE.--Water-stage recorder. Elevation of gage is 2,120 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	e345
2	---	---	---	---	---	---	---	---	---	---	---	e440
3	---	---	---	---	---	---	---	---	---	---	---	e510
4	---	---	---	---	---	---	---	---	---	---	---	445
5	---	---	---	---	---	---	---	---	---	---	---	273
6	---	---	---	---	---	---	---	---	---	---	---	711
7	---	---	---	---	---	---	---	---	---	---	---	2,200
8	---	---	---	---	---	---	---	---	---	---	---	7,440
9	---	---	---	---	---	---	---	---	---	---	---	1,970
10	---	---	---	---	---	---	---	---	---	---	---	1,310
11	---	---	---	---	---	---	---	---	---	---	---	1,200
12	---	---	---	---	---	---	---	---	---	---	---	1,560
13	---	---	---	---	---	---	---	---	---	---	---	2,110
14	---	---	---	---	---	---	---	---	---	---	---	2,290
15	---	---	---	---	---	---	---	---	---	---	---	3,200
16	---	---	---	---	---	---	---	---	---	---	---	2,530
17	---	---	---	---	---	---	---	---	---	---	---	7,190
18	---	---	---	---	---	---	---	---	---	---	---	4,390
19	---	---	---	---	---	---	---	---	---	---	---	2,810
20	---	---	---	---	---	---	---	---	---	---	---	1,790
21	---	---	---	---	---	---	---	---	---	---	---	1,550
22	---	---	---	---	---	---	---	---	---	---	---	1,420
23	---	---	---	---	---	---	---	---	---	---	---	1,270
24	---	---	---	---	---	---	---	---	---	---	---	1,110
25	---	---	---	---	---	---	---	---	---	---	---	868
26	---	---	---	---	---	---	---	---	---	---	---	1,230
27	---	---	---	---	---	---	---	---	---	---	---	2,790
28	---	---	---	---	---	---	---	---	---	---	---	2,260
29	---	---	---	---	---	---	---	---	---	---	---	972
30	---	---	---	---	---	---	---	---	---	---	---	640
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	58,824
MEAN	---	---	---	---	---	---	---	---	---	---	---	1,961
MAX	---	---	---	---	---	---	---	---	---	---	---	7,440
MIN	---	---	---	---	---	---	---	---	---	---	---	273

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	---	1,961
MAX	---	---	---	---	---	---	---	---	---	---	---	1,961
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)
MIN	---	---	---	---	---	---	---	---	---	---	---	1,961
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)

SUMMARY STATISTICS

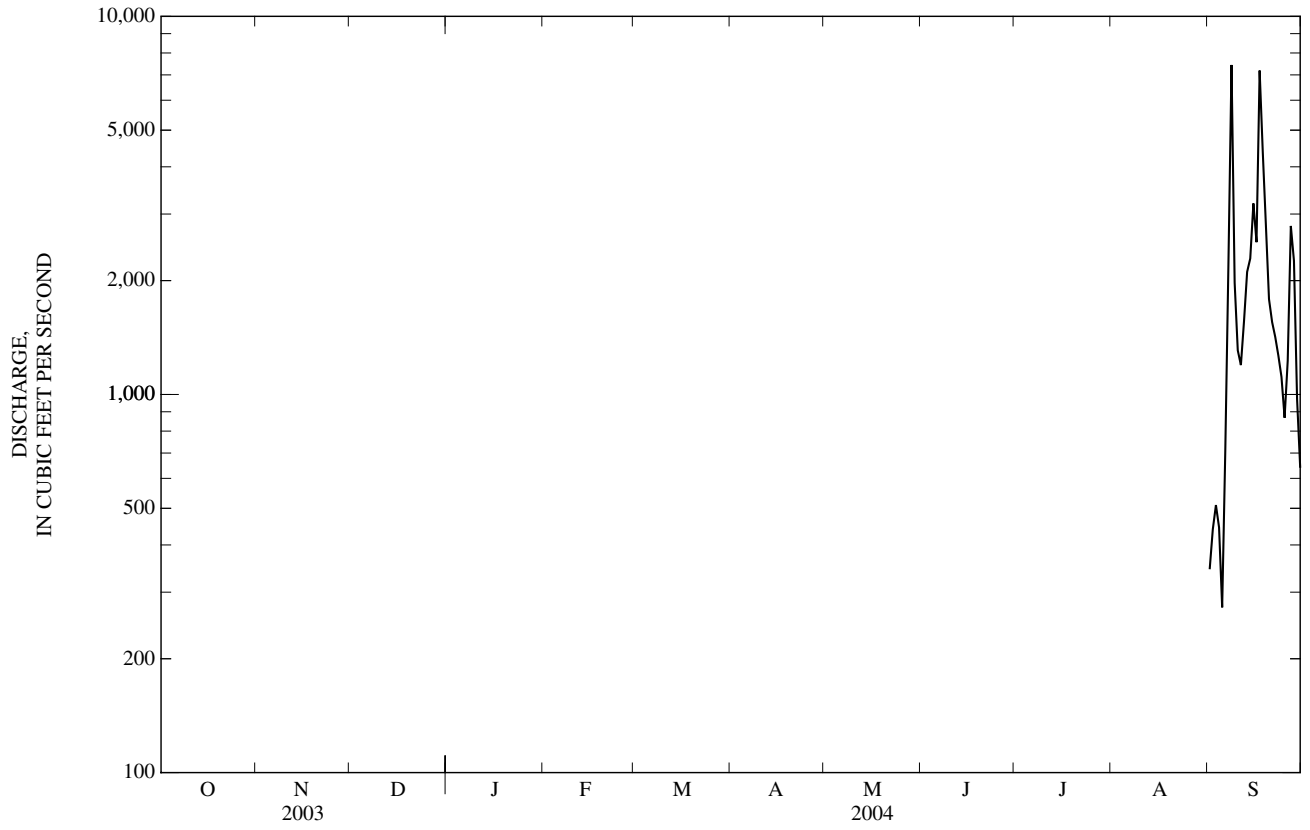
FOR 2004 WATER YEAR

INSTANTANEOUS PEAK FLOW	11,500	Sep 8
INSTANTANEOUS PEAK STAGE	17.37	Sep 8
INSTANTANEOUS LOW FLOW	257*	Sep 6

* See REMARKS.

e Estimated.

03508050 TUCKASEGEE RIVER AT SECONDARY ROAD 1172 NEAR CULLOWHEE, NC—Continued



03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC

LOCATION.--Lat 35°23'04", long 83°17'30", Jackson County, Hydrologic Unit 06010203, on old truss bridge near left bank, 60 ft upstream from bridge on Secondary Road 1392, 0.1 mi upstream from Barkers Creek and at river mile 27.3

DRAINAGE AREA.--360 mi².

PERIOD OF RECORD.--July 2004 to September 2004

GAGE.--Water-stage recorder. Elevation of gage is 1,920 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	865	1,120	588
2	---	---	---	---	---	---	---	---	---	612	1,030	e758
3	---	---	---	---	---	---	---	---	---	637	1,060	e906
4	---	---	---	---	---	---	---	---	---	642	929	762
5	---	---	---	---	---	---	---	---	---	530	733	463
6	---	---	---	---	---	---	---	---	---	702	626	740
7	---	---	---	---	---	---	---	---	---	687	661	1,700
8	---	---	---	---	---	---	---	---	---	538	513	10,600
9	---	---	---	---	---	---	---	---	---	577	517	3,530
10	---	---	---	---	---	---	---	---	---	639	630	2,120
11	---	---	---	---	---	---	---	---	---	439	954	1,870
12	---	---	---	---	---	---	---	---	---	342	1,040	1,960
13	---	---	---	---	---	---	---	---	---	401	467	2,500
14	---	---	---	---	---	---	---	---	---	449	388	2,450
15	---	---	---	---	---	---	---	---	---	334	304	3,530
16	---	---	---	---	---	---	---	---	---	312	293	3,240
17	---	---	---	---	---	---	---	---	---	515	297	12,600
18	---	---	---	---	---	---	---	---	---	583	377	7,170
19	---	---	---	---	---	---	---	---	---	356	343	4,430
20	---	---	---	---	---	---	---	---	---	460	354	3,020
21	---	---	---	---	---	---	---	---	---	554	546	2,500
22	---	---	---	---	---	---	---	---	---	526	326	2,230
23	---	---	---	---	---	---	---	---	---	446	252	2,030
24	---	---	---	---	---	---	---	---	---	467	476	1,820
25	---	---	---	---	---	---	---	---	---	543	539	1,460
26	---	---	---	---	---	---	---	---	---	418	440	1,620
27	---	---	---	---	---	---	---	---	---	875	328	2,850
28	---	---	---	---	---	---	---	---	---	595	498	3,950
29	---	---	---	---	---	---	---	---	---	527	488	1,760
30	---	---	---	---	---	---	---	---	---	1,200	394	1,210
31	---	---	---	---	---	---	---	---	---	1,210	553	---
TOTAL	---	---	---	---	---	---	---	---	---	17,981	17,476	86,367
MEAN	---	---	---	---	---	---	---	---	---	580	564	2,879
MAX	---	---	---	---	---	---	---	---	---	1,210	1,120	12,600
MIN	---	---	---	---	---	---	---	---	---	312	252	463

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	580	564	2,879
MAX	---	---	---	---	---	---	---	---	---	580	564	2,879
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	580	564	2,879
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)

SUMMARY STATISTICS

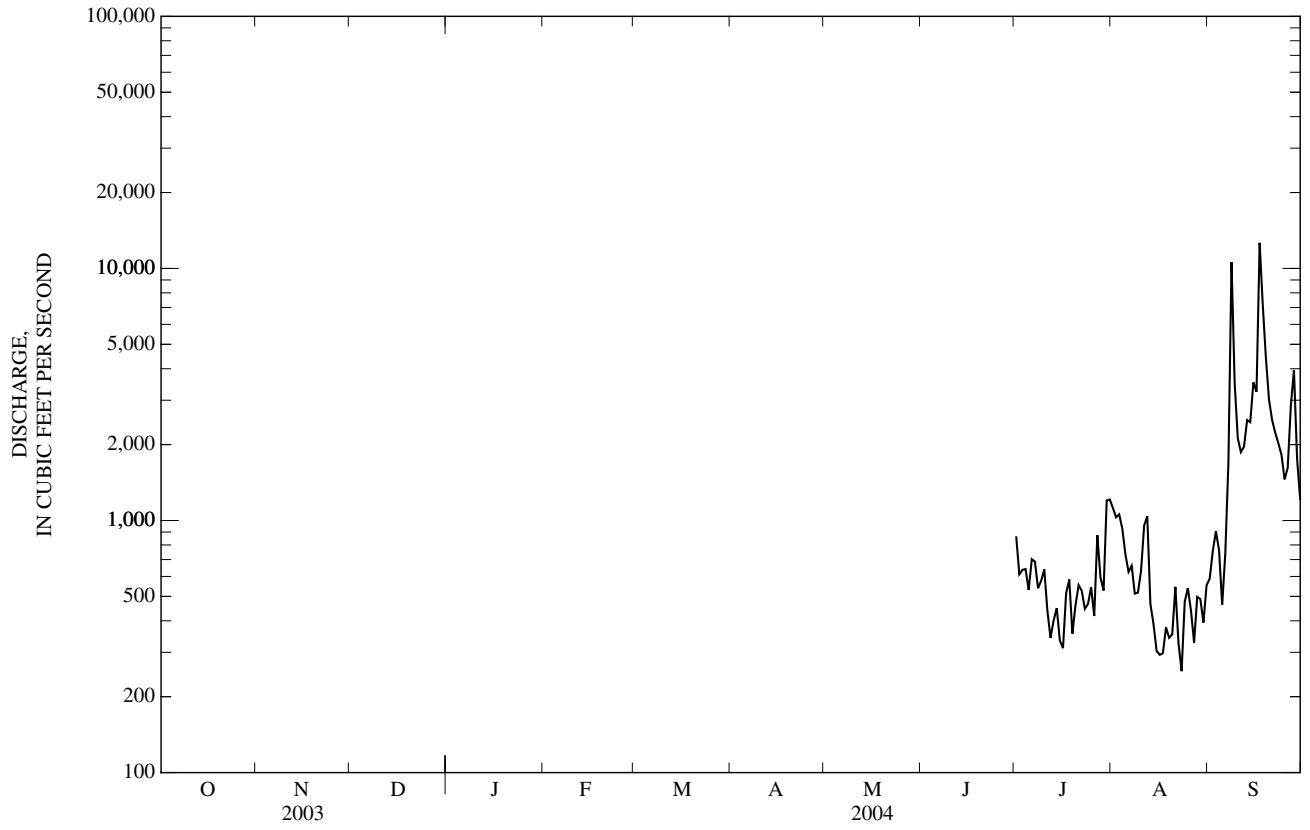
FOR 2004 WATER YEAR

INSTANTANEOUS PEAK FLOW	15,800	Sep 17
INSTANTANEOUS PEAK STAGE	13.26	Sep 17
INSTANTANEOUS LOW FLOW	169*	Aug 23

* See REMARKS.

e Estimated.

03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC—Continued



03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC

LOCATION.--Lat 35°27'41", long 83°21'13", Swain County, Hydrologic Unit 06010203, in Cherokee Indian Reservation on left

DRAINAGE AREA.--184 mi².

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,843.30 ft above NGVD of 1929. Prior to Oct. 1, 1946, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum gage height for period of record from floodmarks. Minimum discharge for period of record also occurred Nov. 9, 1987. Minimum discharge for current water year also occurred Oct. 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Nov. 19, 1906, and Mar. 27, 1913, reached stages of 18 and 14.5 ft, respectively, from studies by Tennessee Valley Authority; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	165	598	521	401	363	456	491	540	545	376	222
2	201	161	523	501	422	599	428	656	408	497	513	253
3	194	159	475	513	610	666	420	665	358	536	755	237
4	191	155	526	572	472	563	426	557	356	501	415	220
5	187	194	536	1,530	452	546	404	524	328	448	372	207
6	182	465	479	1,120	2,150	1,840	393	487	298	704	402	196
7	190	446	439	820	1,620	1,040	402	460	282	479	323	387
8	190	305	417	710	1,080	820	426	448	278	419	289	2,420
9	182	255	401	654	877	708	419	467	279	377	268	2,080
10	184	229	918	576	770	640	396	481	319	362	253	981
11	179	215	865	522	682	579	385	426	284	435	264	901
12	172	205	653	498	703	543	397	401	266	367	516	834
13	167	217	578	469	621	507	1,730	411	426	380	336	628
14	181	192	683	441	576	483	1,010	397	419	391	283	531
15	210	187	598	422	592	512	778	369	388	332	263	466
16	173	185	548	393	556	882	686	357	439	300	254	533
17	167	198	774	381	519	678	618	376	382	320	247	5,900
18	164	243	652	573	495	696	568	365	470	383	239	3,140
19	160	3,560	625	519	477	740	542	396	364	288	220	1,660
20	156	1,280	565	434	464	676	531	355	331	266	239	1,130
21	153	775	514	417	469	705	500	332	391	250	357	875
22	150	592	489	397	442	613	477	335	601	238	314	718
23	148	495	478	375	426	565	458	359	522	234	266	619
24	146	585	735	373	419	535	445	325	557	224	278	549
25	143	531	590	498	408	504	433	303	613	229	299	499
26	183	462	544	574	405	482	807	294	948	287	326	460
27	326	466	513	542	400	462	622	328	628	929	263	440
28	253	1,130	489	486	385	445	532	304	558	534	248	873
29	195	894	470	461	370	428	502	310	495	386	304	589
30	178	696	729	446	---	469	489	380	487	426	266	482
31	171	---	564	417	---	475	---	1,070	---	417	236	---
TOTAL	5,687	15,642	17,968	17,155	18,263	19,764	16,680	13,429	13,015	12,484	9,984	29,030
MEAN	183	521	580	553	630	638	556	433	434	403	322	968
MAX	326	3,560	918	1,530	2,150	1,840	1,730	1,070	948	929	755	5,900
MIN	143	155	401	373	370	363	385	294	266	224	220	196
CFSM	1.00	2.83	3.15	3.01	3.42	3.46	3.02	2.35	2.36	2.19	1.75	5.26
IN.	1.15	3.16	3.63	3.47	3.69	4.00	3.37	2.71	2.63	2.52	2.02	5.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, @ BY WATER YEAR (WY)

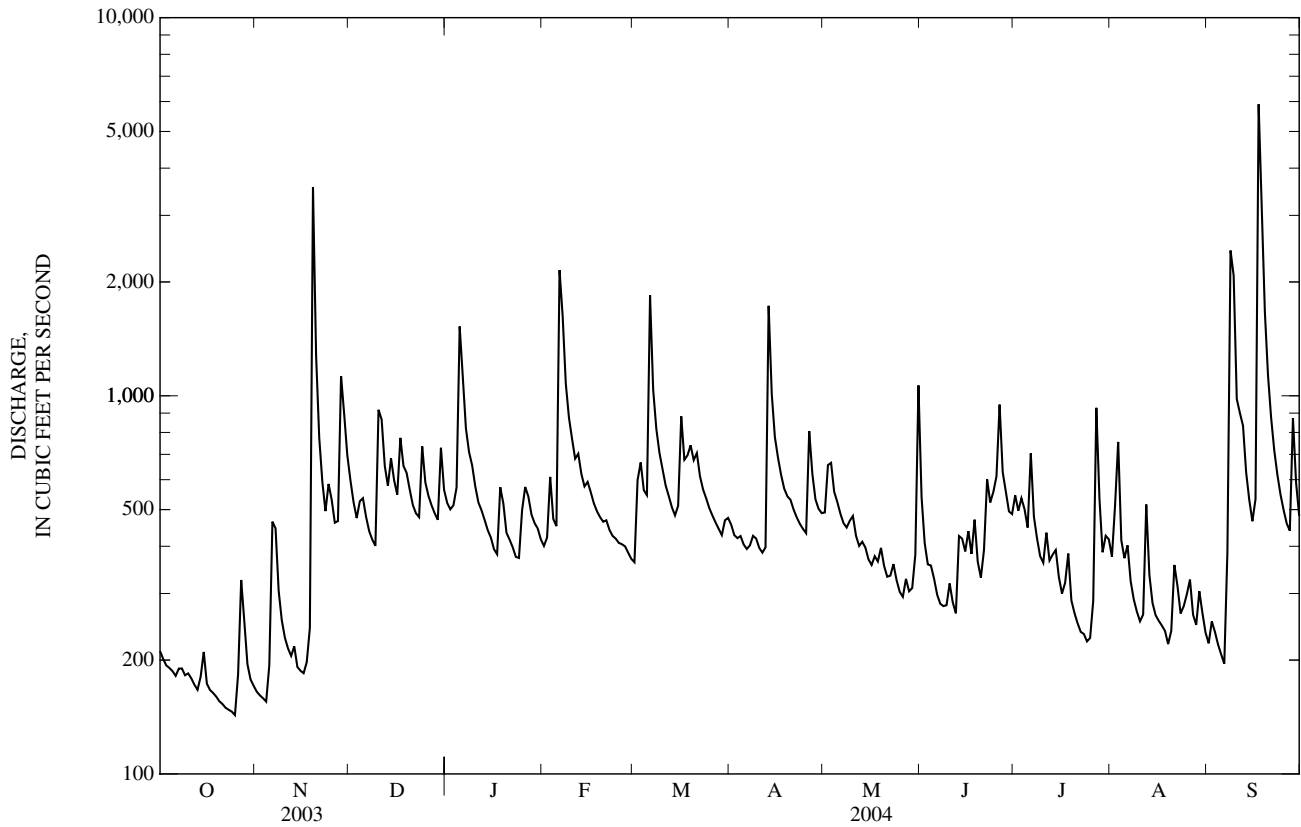
MEAN	260	382	572	710	801	868	718	545	425	383	326	270
MAX	645	777	1,266	1,428	1,700	1,714	1,315	1,202	1,136	938	733	968
(WY)	(1990)	(1958)	(1962)	(1974)	(1990)	(1963)	(1994)	(1984)	(1989)	(1989)	(1994)	(2004)
MIN	94.5	125	162	170	392	330	277	239	175	169	152	121
(WY)	(1955)	(1988)	(1966)	(1981)	(1978)	(1988)	(1986)	(1986)	(1988)	(1952)	(2002)	(1954)

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004 [@]	
ANNUAL TOTAL	215,453		189,101		520	
ANNUAL MEAN	590		517		771	
HIGHEST ANNUAL MEAN					274	1986
LOWEST ANNUAL MEAN					8,470	Mar 12, 1963
HIGHEST DAILY MEAN	7,150	May 6	5,900	Sep 17	82	Nov 8, 1987
LOWEST DAILY MEAN	143	Oct 25	143	Oct 25	82	Oct 16, 1954
ANNUAL SEVEN-DAY MINIMUM	151	Oct 19	151	Oct 19	15,900	Dec 30, 1969
MAXIMUM PEAK FLOW			8,100	Nov 19	12.46*	Dec 30, 1969
MAXIMUM PEAK STAGE			7.85	Nov 19	79*	Nov 8, 1987
INSTANTANEOUS LOW FLOW			142*	Oct 24	2.83	
ANNUAL RUNOFF (CFSM)	3.21		2.81		38.41	
ANNUAL RUNOFF (INCHES)	43.56		38.23		942	
10 PERCENT EXCEEDS	1,010		774		395	
50 PERCENT EXCEEDS	479		446		168	
90 PERCENT EXCEEDS	191		200			

[@] See PERIOD OF RECORD.

* See REMARKS.



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC

LOCATION.--Lat 35°25'39", long 83°26'49", Swain County, Hydrologic Unit 06010203, on left bank 400 ft downstream of bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mi downstream of Deep Creek, and at mile 12.6.

DRAINAGE AREA.--655 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to December 1981, October 1983 to January 1995, April 1996 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

GAGE.--Water-stage recorder. Datum of gage is 1,714.54 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft upstream at datum of 1,716.54 ft. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft upstream at datum of 1,716.54 ft. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum of 1,716.54 ft. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation caused by power plants upstream from station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (stations 03507111, 03507131), and two small reservoirs with a combined capacity of 250 ft³/s-day. Maximum discharge for period of record, from rating curve extended above 28,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record and minimum daily discharge for period of record also occurred Sept. 10, 1925, caused by filling reservoir on Oconaluftee River. Minimum daily discharge during normal regulation: 186 ft³/s, Oct. 13, 1925. Minimum discharge for current water year also occurred October 24, 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22, 19, and 19 ft, respectively, present site and datum, from studies by Tennessee Valley Authority; discharge not determined. The flood in May 1840 exceeded all other observed floods at this location.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	923	824	1,840	1,700	1,230	1,160	1,380	1,310	1,490	1,910	1,820	1,030
2	857	695	1,830	1,510	1,250	1,500	1,320	1,500	1,240	1,450	1,770	1,320
3	834	760	1,620	1,540	2,170	1,660	1,180	1,790	1,110	1,480	2,190	1,420
4	894	808	1,770	1,730	1,940	1,440	1,110	1,520	988	1,530	1,670	1,240
5	931	1,230	1,840	3,090	1,980	1,390	1,160	1,460	926	1,220	1,350	855
6	831	1,560	1,920	2,490	5,220	3,410	1,260	1,340	833	1,730	1,320	1,020
7	779	1,460	1,830	1,970	4,710	2,310	1,240	1,330	784	1,480	1,200	2,080
8	877	1,210	1,550	1,800	3,120	1,920	1,240	1,300	796	1,320	985	14,000
9	908	951	1,500	1,920	2,640	1,780	1,200	1,480	850	1,190	985	6,650
10	835	999	2,400	1,720	2,380	1,730	1,040	1,230	980	1,290	1,000	3,640
11	1,130	1,030	2,750	1,440	e2,440	1,600	1,010	1,380	880	1,100	1,400	3,310
12	988	999	2,280	1,440	2,640	1,520	1,040	1,350	849	979	1,900	3,210
13	644	1,030	2,120	1,350	2,420	1,460	3,520	1,570	982	951	1,170	3,550
14	720	1,050	2,380	1,340	2,290	1,400	2,640	1,830	894	1,100	868	3,380
15	781	1,050	2,050	1,300	2,310	1,430	2,010	1,510	1,190	880	768	4,290
16	732	918	1,850	1,280	2,200	2,130	1,800	1,290	1,540	788	744	4,210
17	699	834	2,270	1,260	1,730	1,820	1,630	1,230	1,290	1,050	719	23,500
18	700	1,050	2,020	1,580	1,710	1,750	1,450	1,720	1,160	1,270	797	13,000
19	675	8,900	1,970	1,440	1,660	1,820	1,320	1,660	965	902	744	7,560
20	645	3,830	1,860	1,280	1,670	1,730	1,350	1,320	803	872	779	5,240
21	666	2,630	1,720	1,400	1,770	1,730	1,330	1,190	684	982	1,100	4,250
22	661	2,200	1,530	1,180	1,690	1,620	1,270	1,140	1,270	988	839	3,650
23	631	1,990	1,940	1,130	1,620	1,580	1,250	1,410	1,190	815	713	3,170
24	649	2,100	2,540	1,130	1,600	1,520	1,170	1,110	1,170	924	887	2,830
25	649	2,010	2,180	1,410	1,600	1,670	1,130	1,120	1,210	795	1,020	2,310
26	833	1,850	2,080	1,950	1,500	1,630	2,110	1,110	2,140	1,180	943	2,290
27	1,290	1,870	1,720	1,680	1,510	1,470	2,110	1,150	1,330	2,370	810	3,440
28	1,020	2,950	1,590	1,510	1,400	1,160	1,550	1,060	1,320	1,560	944	5,530
29	912	2,600	1,630	1,440	1,290	1,200	1,360	1,120	1,270	1,200	895	2,830
30	868	2,140	2,140	1,380	---	1,390	1,430	1,060	1,460	1,780	853	2,020
31	950	---	1,750	1,250	---	1,400	---	2,590	---	2,030	954	---
TOTAL	25,512	53,528	60,470	48,640	61,690	51,330	44,610	43,180	33,594	39,116	34,137	136,825
MEAN	823	1,784	1,951	1,569	2,127	1,656	1,487	1,393	1,120	1,262	1,101	4,561
MAX	1,290	8,900	2,750	3,090	5,220	3,410	3,520	2,590	2,140	2,370	2,190	23,500
MIN	631	695	1,500	1,130	1,230	1,160	1,010	1,060	684	788	713	855

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2004, @BY WATER YEAR (WY)

MEAN	922	1,065	1,591	2,001	2,273	2,561	2,222	1,758	1,398	1,244	1,150	989
MAX	3,654	2,899	3,704	4,819	5,847	6,504	4,843	3,988	3,199	3,379	4,251	4,561
(WY)	(1899)	(1907)	(1933)	(1937)	(1899)	(1899)	(1920)	(2003)	(1909)	(1916)	(1901)	(2004)
MIN	347	378	457	599	736	926	841	602	531	503	220	195
(WY)	(1932)	(1932)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1941)	(1925)	(1925)	(1925)

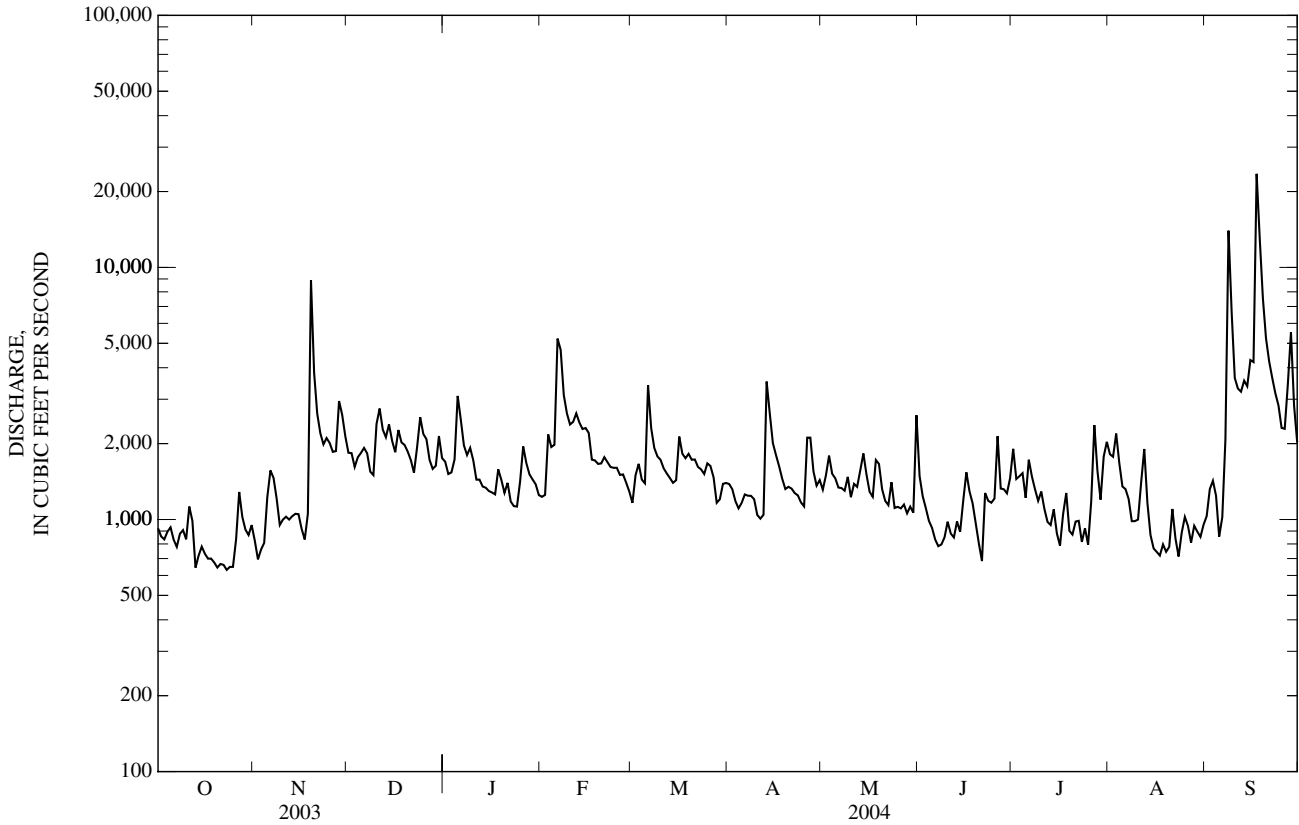
03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1898 - 2004 [@]	
ANNUAL TOTAL	711,002		632,632			
ANNUAL MEAN	1,948		1,729		1,593	
HIGHEST ANNUAL MEAN					2,576	1899
LOWEST ANNUAL MEAN					879	1986
HIGHEST DAILY MEAN	19,500	May 6	23,500	Sep 17	28,000	Mar 4, 1917
LOWEST DAILY MEAN	617	Sep 20	631	Oct 23	31*	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	654	Oct 19	654	Oct 19	97	Sep 4, 1925
MAXIMUM PEAK FLOW			31,800	Sep 17	61,600*	Aug 30, 1940
MAXIMUM PEAK STAGE			13.87	Sep 17	15.96	Aug 30, 1940
INSTANTANEOUS LOW FLOW			552*	Oct 23	27*	Sep 10, 1925
10 PERCENT EXCEEDS	2,980		2,560		2,840	
50 PERCENT EXCEEDS	1,670		1,400		1,260	
90 PERCENT EXCEEDS	870		834		608	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC—Continued

PRECIPITATION RECORDS

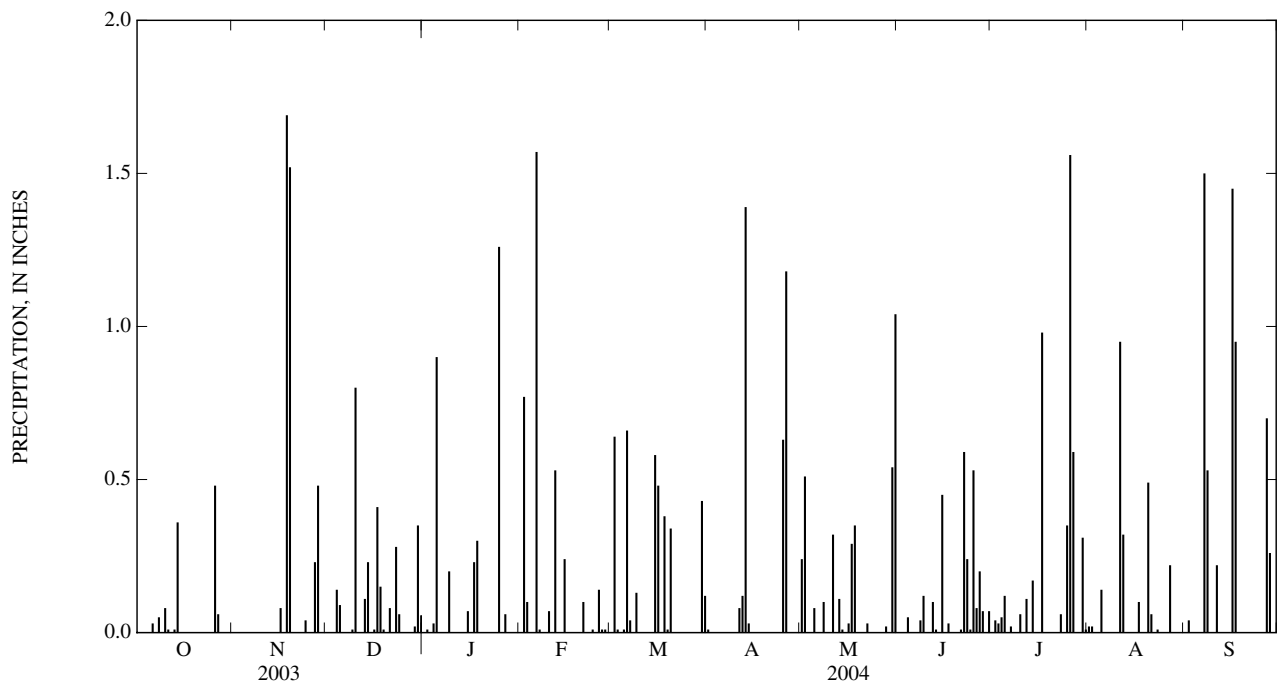
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority and the North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.24	0.00	0.00	0.02	0.00
2	0.00	0.00	0.00	0.01	0.77	0.64	0.00	0.51	0.00	0.04	0.02	0.04
3	0.00	0.00	0.00	0.00	0.10	0.01	0.00	0.00	0.00	0.03	0.00	0.00
4	0.00	0.00	0.14	0.03	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00
5	0.00	0.00	0.09	0.90	0.00	0.01	0.00	0.08	0.00	0.12	0.14	0.00
6	0.03	0.00	0.00	0.00	1.57	0.66	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.02	0.00	1.50
8	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.00	0.00	0.53
9	0.00	0.00	0.01	0.20	0.00	0.13	0.00	0.00	0.12	0.00	0.00	0.00
10	0.08	0.00	0.80	0.00	0.07	0.00	0.00	0.00	0.00	0.06	0.00	0.00
11	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.32	0.00	0.00	0.95	0.22
12	0.00	0.00	0.00	0.00	0.53	0.00	0.12	0.00	0.10	0.11	0.32	0.00
13	0.01	0.00	0.11	0.00	0.00	0.00	1.39	0.11	0.01	0.00	0.00	0.00
14	0.36	0.00	0.23	0.00	0.00	0.00	0.03	0.01	0.00	0.17	0.00	0.00
15	0.00	0.00	0.00	0.07	0.24	0.58	0.00	0.00	0.45	0.00	0.00	0.00
16	0.00	0.08	0.01	0.00	0.00	0.48	0.00	0.03	0.00	0.00	0.00	1.45
17	0.00	0.00	0.41	0.23	0.00	0.00	0.00	0.29	0.03	0.98	0.10	0.95
18	0.00	1.69	0.15	0.30	0.00	0.38	0.00	0.35	0.00	0.00	0.00	0.00
19	0.00	1.52	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.49	0.00
21	0.00	0.00	0.08	0.00	0.10	0.00	0.00	0.00	0.01	0.00	0.06	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.59	0.00	0.00	0.00
23	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.24	0.06	0.01	0.00
24	0.00	0.04	0.06	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	1.26	0.00	0.00	0.63	0.00	0.53	0.35	0.00	0.00
26	0.48	0.00	0.00	0.00	0.14	0.00	1.18	0.00	0.08	1.56	0.00	0.00
27	0.06	0.23	0.00	0.06	0.01	0.00	0.00	0.00	0.20	0.59	0.22	0.70
28	0.00	0.48	0.00	0.00	0.01	0.00	0.00	0.02	0.07	0.00	0.00	0.26
29	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.35	0.00	---	0.43	0.00	0.54	0.07	0.31	0.00	0.00
31	0.00	---	0.00	0.00	---	0.12	---	1.04	---	0.01	0.00	---
TOTAL	1.08	4.04	2.75	3.06	3.56	3.83	3.44	3.67	2.60	4.46	2.33	5.65



0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC

LOCATION.--Lat 35°26'49", long 83°55'22", Graham County, Hydrologic Unit 06010204, on right bank, 93 ft downstream of U.S. Forest Service bridge number 62 on Slickrock Road, 1.7 mi upstream of mouth, and 1.2 mi east southeast of Tapoco.

DRAINAGE AREA.--206 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1999 to current year.

REVISED RECORD.--WDR NC-03-1B: 2002(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,260 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation at times caused by Santeetlah Dam, 10.3 mi upstream. Water from Santeetlah Lake, 10.3 mi upstream, is diverted to hydro powerplant on the Little Tennessee River, which bypasses gage. Maximum discharge for period of record, from rating curve extended above 5,000 ft³/s on basis of step-backwater computation of peak flow. Minimum discharge for period of record also occurred Sept. 17, 20, 2000. Minimum discharge for current water year also occurred Nov. 2-5.

REVISIONS.--The maximum discharge for the water year 2002 has been revised to 5,800 ft³/s, Jan. 23, 2002, gage height 8.58 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	34	102	103	87	83	101	78	63	76	78	44
2	46	34	88	99	135	121	95	114	54	72	73	44
3	44	33	81	95	217	108	93	100	53	74	76	43
4	44	33	183	91	152	97	89	97	56	80	64	42
5	43	77	180	214	131	93	85	91	50	71	80	41
6	43	135	140	185	360	311	83	85	47	87	82	38
7	44	70	116	141	284	194	83	79	46	67	62	56
8	41	54	104	125	199	149	82	76	47	59	57	120
9	41	48	95	120	165	136	79	76	48	55	54	111
10	40	45	225	106	154	127	77	75	49	52	52	70
11	41	44	191	98	139	115	78	72	44	50	53	60
12	40	43	142	95	161	110	82	69	88	92	145	54
13	39	44	123	92	143	103	235	66	116	83	84	50
14	40	40	149	88	133	100	154	64	76	67	67	47
15	46	40	124	86	140	105	130	62	61	61	61	45
16	38	41	112	82	132	138	117	63	58	53	57	192
17	38	42	149	81	122	113	107	69	51	69	54	2,240
18	38	55	124	132	115	119	101	69	49	103	52	347
19	37	432	121	116	111	127	95	68	49	63	49	199
20	36	178	106	97	108	119	92	62	44	55	50	149
21	36	111	98	92	109	152	89	59	65	50	105	123
22	35	87	96	88	100	123	85	58	68	47	64	110
23	34	76	102	83	97	114	82	57	58	58	56	101
24	34	104	147	82	96	108	80	55	60	50	59	95
25	34	88	118	145	93	102	78	54	164	99	58	91
26	36	77	106	158	92	99	122	53	202	231	58	86
27	42	82	99	128	90	96	97	52	101	420	52	84
28	39	202	94	110	86	93	84	53	112	153	48	108
29	36	166	91	102	84	90	80	55	107	103	49	86
30	34	122	154	98	---	102	78	63	83	127	48	81
31	34	---	112	91	---	108	---	104	---	87	47	---
TOTAL	1,221	2,637	3,872	3,423	4,035	3,755	2,933	2,198	2,169	2,814	1,994	4,957
MEAN	39.4	87.9	125	110	139	121	97.8	70.9	72.3	90.8	64.3	165
MAX	48	432	225	214	360	311	235	114	202	420	145	2,240
MIN	34	33	81	81	84	83	77	52	44	47	47	38

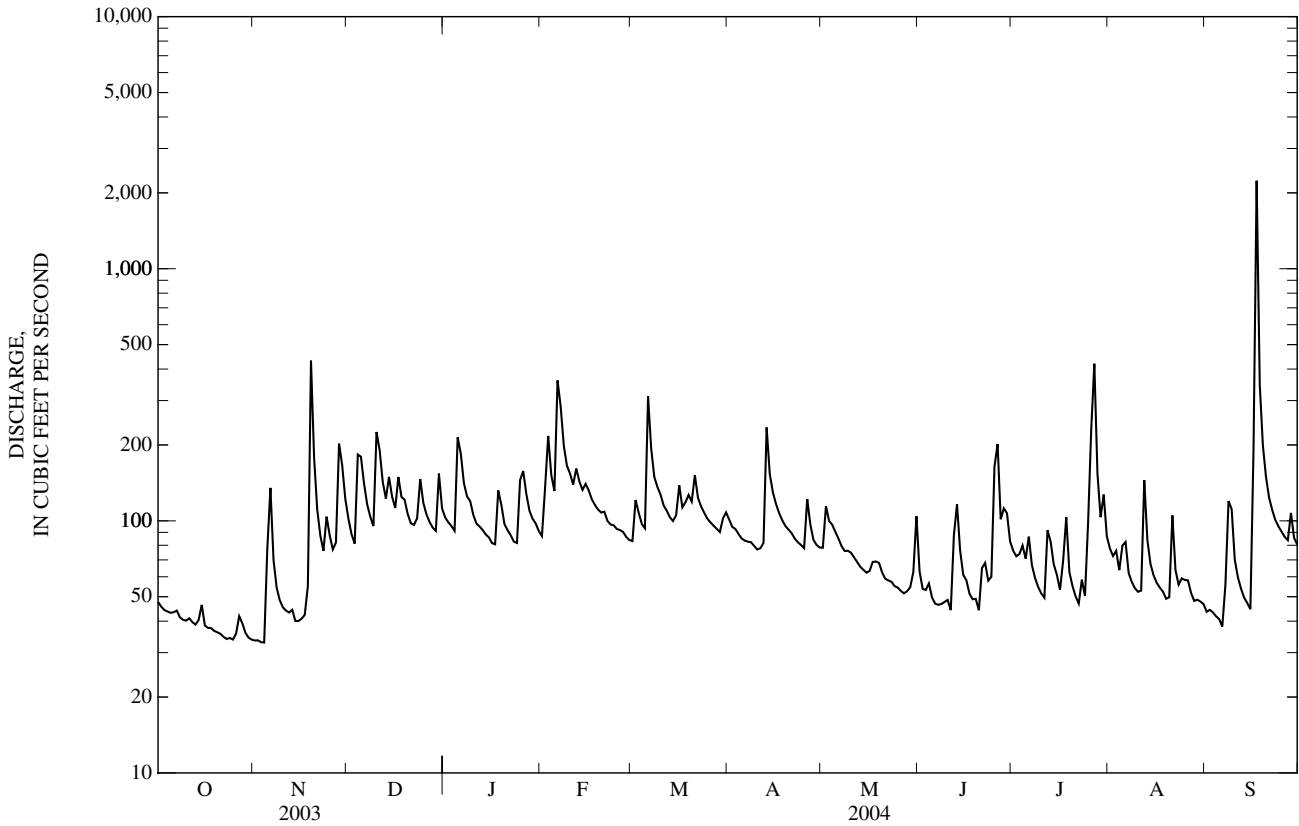
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	27.6	53.2	79.2	185	128	113	134	268	72.7	79.8	47.8	64.7
MAX	39.9	87.9	132	589	216	149	229	889	113	131	81.5	165
(WY)	(2003)	(2004)	(2003)	(2002)	(2003)	(2002)	(2002)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	12.1	26.7	31.5	65.8	77.3	79.7	64.3	53.2	52.5	41.0	22.7	19.9
(WY)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2001)	(2002)	(2002)	(2002)	(2000)

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	64,131		36,008		104	
ANNUAL MEAN	176		98.4		54.9	
HIGHEST ANNUAL MEAN					176	2003
LOWEST ANNUAL MEAN					54.9	2001
HIGHEST DAILY MEAN	8,350	May 6	2,240	Sep 17	8,350	May 6, 2003
LOWEST DAILY MEAN	33	Nov 3	33	Nov 3	9.1	Sep 17, 2000
ANNUAL SEVEN-DAY MINIMUM	34	Oct 29	34	Oct 29	9.8	Sep 14, 2000
MAXIMUM PEAK FLOW			4,980	Sep 17	15,000*	May 6, 2003
MAXIMUM PEAK STAGE			7.40	Sep 17	13.30	May 6, 2003
INSTANTANEOUS LOW FLOW			33*	Nov 1	8.8*	Sep 16, 2000
10 PERCENT EXCEEDS	210		149		156	
50 PERCENT EXCEEDS	99		84		60	
90 PERCENT EXCEEDS	42		43		21	

* See REMARKS.



0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1999 to current year.

INSTRUMENTATION.--Temperature probe since October 1999. Satellite telemetry at station.

REMARKS.--Records good. Station operated in cooperation with Tapoco, Inc.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 30.0°C, July 30, 2002; minimum recorded, 0°C, periodically in winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 28.4°C, July 11; minimum recorded, 0.8°C, Dec. 21, Jan. 29.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.3	13.0	14.4	14.3	11.5	13.0	6.4	4.6	5.5	5.9	3.4	4.6
2	15.2	11.6	13.3	14.6	11.9	13.3	5.7	4.3	5.0	8.4	5.9	7.0
3	13.4	10.6	12.1	14.5	11.8	13.2	6.1	4.7	5.3	10.8	8.4	9.6
4	13.5	11.1	12.2	16.3	12.7	14.3	6.8	5.1	5.8	12.1	10.7	11.3
5	14.9	12.8	13.7	16.9	15.0	15.9	7.5	6.5	7.1	11.9	8.4	11.0
6	15.2	13.8	14.5	17.4	15.9	16.6	6.5	5.1	5.7	8.4	3.7	6.2
7	17.7	14.0	15.6	16.7	15.0	16.0	5.3	4.2	4.8	3.7	1.8	2.4
8	18.3	15.2	16.7	15.0	12.9	14.2	5.0	3.7	4.5	3.7	2.1	2.8
9	17.8	15.5	16.7	13.1	11.4	12.3	6.7	4.1	5.3	4.0	3.3	3.7
10	17.8	16.0	16.9	12.1	10.3	11.3	8.5	6.7	7.8	3.7	2.3	3.3
11	17.7	16.1	16.9	13.3	10.8	12.0	7.2	5.3	6.0	2.4	0.9	1.9
12	17.9	15.6	16.7	15.6	12.4	13.9	5.4	4.2	4.9	4.0	1.9	2.9
13	17.8	15.7	16.7	15.3	8.1	11.5	6.0	4.5	5.1	4.4	2.9	3.7
14	18.6	16.0	17.3	8.4	6.6	7.6	6.7	6.0	6.4	5.4	3.0	4.1
15	16.1	13.7	14.9	9.3	7.7	8.5	6.0	5.1	5.7	5.6	4.1	5.1
16	14.8	11.4	13.2	11.0	9.2	10.0	7.4	4.9	6.0	4.3	2.8	3.6
17	12.9	11.3	12.2	13.6	11.0	12.2	7.4	4.5	6.0	5.8	3.4	4.4
18	14.6	11.3	12.8	15.0	13.1	14.1	5.2	4.0	4.6	7.1	5.8	6.6
19	14.2	10.9	12.7	14.4	11.9	13.6	4.6	3.0	4.1	6.0	2.5	4.2
20	14.6	11.3	13.0	11.9	10.2	10.9	3.0	1.9	2.5	2.5	1.0	1.8
21	15.3	11.9	13.6	10.4	8.8	9.8	2.3	0.8	1.7	3.3	1.5	2.3
22	16.0	13.4	14.5	10.1	8.5	9.5	4.2	1.9	3.0	3.7	1.4	2.6
23	13.8	11.8	12.6	10.7	8.9	10	6.3	3.6	4.7	3.1	0.9	1.8
24	13.7	10.6	12.3	11.7	8.4	10.6	6.4	4.4	5.6	4.9	1.4	3.4
25	14.6	11.5	13.0	8.4	6.3	7.1	4.4	3.2	3.8	5.4	4.6	5.0
26	14.2	13.4	13.9	8.2	6.3	7.3	3.2	2.0	2.8	7.2	5.2	6.1
27	14.1	11.8	13.3	10.1	8.0	8.8	3.5	2.2	3.0	7.0	3.6	5.9
28	11.8	10.5	11.2	11.0	7.5	9.9	4.7	2.8	3.7	3.6	1.8	2.6
29	13.2	10.7	11.8	7.5	5.4	6.2	7.8	4.6	5.9	2.8	0.8	2.0
30	13.0	9.9	11.6	5.7	4.3	5.2	7.9	5.2	6.5	4.1	2.6	3.2
31	14.2	11.2	12.7	---	---	---	5.2	3.7	4.5	3.0	1.2	2.2
MONTH	18.6	9.9	14.0	17.4	4.3	11.3	8.5	0.8	4.9	12.1	0.8	4.4

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.6	1.3	2.5	11.7	6.4	9.0	9.7	8.5	9.2	17.9	15.0	16.4
2	5.0	3.0	3.8	10.9	10.3	10.7	8.7	7.7	8.0	16.5	13.8	15.6
3	6.0	5.0	5.4	11.8	9.8	10.8	13.8	7.8	10.5	13.8	11.5	12.5
4	5.7	4.3	5.0	13.2	10.5	11.9	13.0	8.9	10.8	15.9	10.0	12.6
5	6.5	4.3	5.0	14.1	12.4	13.2	12.1	7.5	9.7	17.4	11.5	14.1
6	8.4	6.5	7.6	14.1	11.9	13.1	13.4	7.4	10.3	20.3	14.0	16.8
7	8.0	4.0	5.8	13.2	10.1	11.6	14.6	9.1	11.8	20.9	14.8	17.7
8	5.1	3.3	4.2	10.1	7.5	8.8	14.3	11.7	12.9	21.6	15.5	18.4
9	5.7	3.7	4.8	8.0	6.4	7.1	16.3	10.9	13.4	19.7	16.4	18.2
10	6.2	5.5	5.8	9.6	6.2	7.6	13.4	10.5	11.7	19.8	16.7	18.2
11	6.5	4.9	5.7	9.5	5.3	7.6	12.4	10.9	11.7	20.3	16.2	18.2
12	6.2	5.4	5.7	10.3	6.8	8.3	14.8	11.8	13.1	20.9	17.0	19.0
13	6.9	4.8	5.8	9.5	5.6	7.7	13.5	10.5	12.5	21.1	18.2	19.5
14	6.6	5.5	6.0	11.6	7.5	9.6	10.5	7.9	8.8	20.1	18.2	19.1
15	6.8	5.7	6.2	10.8	10.0	10.5	13.7	7.3	10.2	22.3	17.4	19.7
16	6.7	5.6	6.1	13.1	10.3	11.2	15.4	9.6	12.4	20.2	17.7	18.8
17	6.1	5.5	5.8	11.6	8.9	10.3	16.9	10.9	13.8	20.4	17.2	18.8
18	7.1	4.8	5.8	10.1	8.6	9.4	18.2	12.4	15.2	19.5	17.6	18.7
19	6.7	3.7	5.4	13.1	9.2	10.8	18.5	13.6	16.1	22.5	17.5	19.7
20	7.5	4.8	6.3	13.0	8.5	10.9	16.3	13.9	15.2	24.7	18.5	21.2
21	9.3	7.1	7.9	12.6	8.4	11.1	17.4	13.3	15.3	23.0	19.4	21.4
22	7.9	5.1	6.6	9.6	6.2	7.7	18.3	15.0	16.5	22.6	19.3	20.9
23	7.0	5.4	6.3	9.5	4.6	7.1	19.9	15.7	17.6	22.4	19.0	20.5
24	8.2	6.9	7.5	11.4	6.7	9.0	19.8	16.2	18.1	23.9	18.8	21.2
25	8.3	6.9	7.7	13.5	8.5	11.0	18.4	16.4	17.5	25.2	19.6	22.2
26	7.5	5.9	6.6	15.5	10.3	12.8	17.7	14.7	16.2	22.7	20.7	21.6
27	6.7	5.3	5.8	15.3	11.4	13.3	16.5	12.8	14.4	24.9	19.8	22.1
28	7.9	4.0	5.9	16.2	11.6	13.9	16.9	10.7	13.7	22.7	20.7	21.6
29	8.1	4.8	6.5	16.4	12.9	14.6	18.3	12.5	15.2	21.9	19.0	20.6
30	---	---	---	16.3	13.2	14.4	16.9	15.0	15.9	22.7	18.9	20.6
31	---	---	---	13.2	9.7	11.2	---	---	---	21.7	19.3	20.4
MONTH	9.3	1.3	5.8	16.4	4.6	10.5	19.9	7.3	13.3	25.2	10.0	18.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	17.9	20.2	20.3	18.5	19.4	25.4	20.2	22.4	23.0	21.0	21.9
2	23.6	17.2	20.3	22.9	18.9	20.6	24.7	21.4	22.9	22.3	20.6	21.4
3	22.5	18.2	20.2	23.5	19.8	21.4	25.7	20.7	22.7	22.1	19.4	20.7
4	24.6	18.5	21.0	23.4	19.5	21.2	25.5	20.5	22.8	22.5	20.0	21.2
5	24.0	18.2	20.8	25.7	20.2	22.3	23.0	20.8	21.7	24.7	19.5	21.8
6	22.2	18.0	20.1	25.2	19.5	22.1	23.5	18.8	20.8	23.9	19.8	21.7
7	21.2	18.9	20.2	25.3	20.8	22.8	22.8	17.3	19.8	22.0	19.9	21.0
8	22.9	19.3	20.8	26.9	21.0	23.6	22.8	17.2	19.8	19.9	18.8	19.4
9	24.6	19.8	21.9	26.7	20.8	23.6	21.5	18.1	19.7	21.9	18.2	19.7
10	26.2	20.0	22.9	27.5	21.5	24.2	23.4	18.4	20.6	22.7	18.2	20.1
11	27.0	20.8	23.7	28.4	22.1	24.9	24.5	19.3	21.6	23.1	19.3	21.0
12	26.6	21.2	23.6	25.8	21.8	23.8	21.5	18.0	19.2	23.0	19.4	21.0
13	22.2	20.1	21.0	26.6	21.0	23.4	19.2	17.1	17.9	21.0	18.7	19.9
14	25.3	20.2	22.4	25.4	21.2	23.2	20.6	16.2	18.3	22.0	17.6	19.6
15	24.0	21.5	22.6	25.7	21.0	23.0	21.0	17.0	19.0	---	---	---
16	25.9	21.0	23.0	24.8	19.7	22.2	22.8	18.0	20.1	---	---	---
17	27.2	21.4	23.7	22.3	20.0	21.1	22.0	18.6	20.2	---	---	---
18	26.0	21.9	23.8	24.5	18.9	21.2	24.3	18.9	21.2	---	---	---
19	26.9	21.8	24.1	24.4	19.5	21.8	24.7	19.6	21.9	---	---	---
20	27.0	21.4	24.1	25.3	19.4	22.1	22.8	20.4	21.7	---	---	---
21	24.3	21.0	22.9	25.7	19.4	22.3	21.7	19.7	20.7	---	---	---
22	23.7	20.5	21.8	24.9	20.4	22.6	22.7	19.8	21.2	---	---	---
23	22.5	20.6	21.5	26.3	20.5	23.4	23.6	20.0	21.6	---	---	---
24	24.2	20.2	21.7	27.9	21.9	24.5	21.5	19.9	20.7	21.2	17.6	19.3
25	21.8	18.8	20.3	25.5	20.4	23.4	22.5	19.4	20.8	21.5	18.6	19.9
26	22.3	18.3	19.9	21.1	19.3	20.3	22.5	20.2	21.2	21.3	18.3	19.7
27	20.7	18.9	19.7	19.3	18.3	18.8	25.3	20.0	22.3	19.8	18.1	19.1
28	19.7	18.4	19.0	22.8	18.3	20.1	26.0	20.9	23.1	19.1	18.4	18.6
29	23.0	17.5	19.8	22.0	19.0	20.5	24.2	21.5	22.8	20.5	17.5	18.8
30	20.5	19.0	19.7	22.6	20.1	21.1	23.1	20.6	21.9	20.5	17.3	18.7
31	---	---	---	22.3	20.3	21.3	24.9	20.4	22.4	---	---	---
MONTH	27.2	17.2	21.6	28.4	18.3	22.1	26.0	16.2	21.1	---	---	---

0351751500 CHEOAH RIVER NEAR TAPOCO, NC

LOCATION.--Lat 35°26'18", long 83°55'08", Graham County, Hydrologic Unit 06010204, on left bank, 15 ft downstream from Cheoah Power House Bridge, 12 ft east of Highway 129, 300 ft upstream of mouth, and 0.2 mi north northeast of Tapoco.

DRAINAGE AREA.--215 mi².

PERIOD OF RECORD.--October 1999 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good.

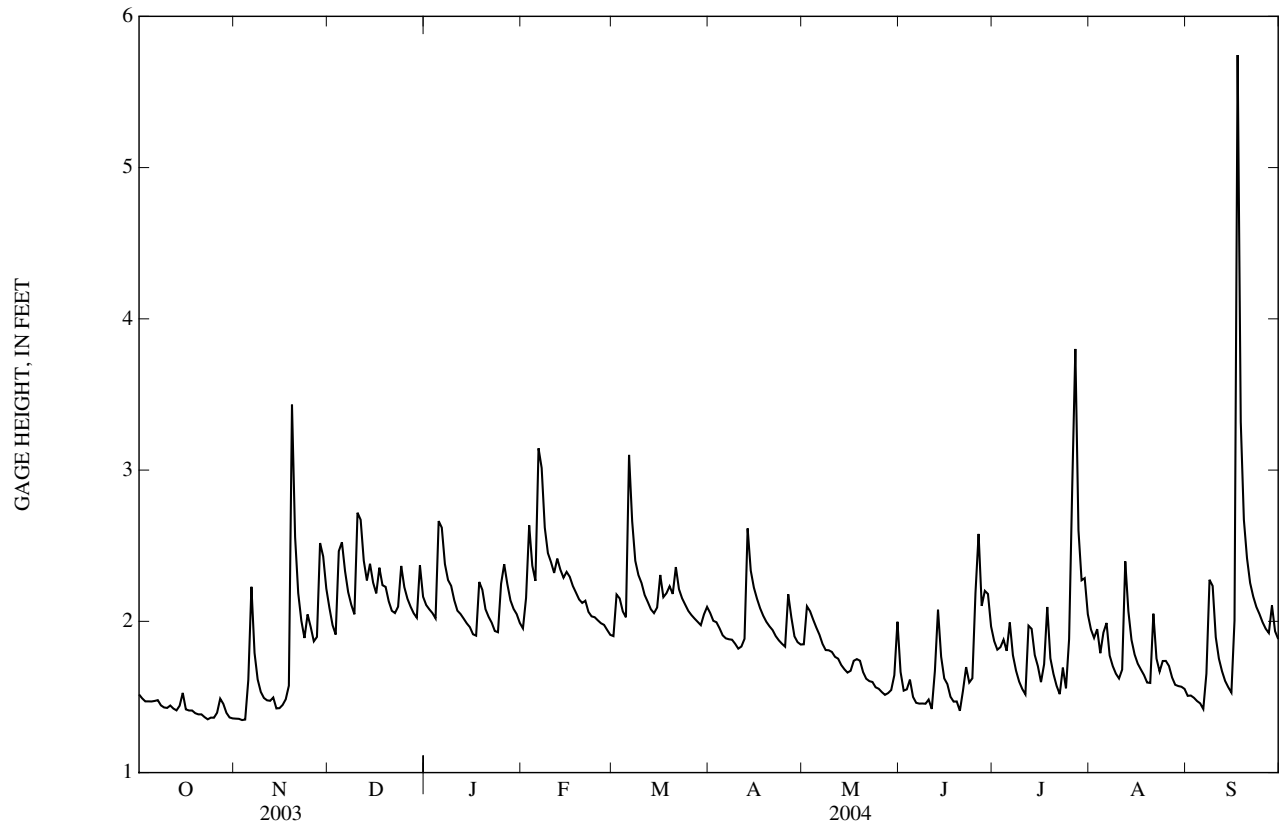
EXTREMES FOR PERIOD OF RECORD--Maximum, 12.09 ft, May 6, 2003; minimum, 1.03 ft, Sept. 16, 17, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum 8.08 ft, Sept. 17; minimum 1.33 ft, Nov. 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.52	1.36	2.09	2.11	1.95	1.90	2.06	1.85	1.67	1.87	1.95	1.51
2	1.49	1.36	1.97	2.08	2.15	2.18	2.00	2.10	1.54	1.81	1.89	1.51
3	1.47	1.35	1.91	2.05	2.64	2.15	1.99	2.07	1.55	1.83	1.95	1.49
4	1.47	1.35	2.46	2.02	2.37	2.07	1.95	2.01	1.61	1.88	1.79	1.47
5	1.47	1.61	2.52	2.66	2.27	2.03	1.91	1.96	1.50	1.80	1.93	1.46
6	1.47	2.23	2.33	2.62	3.14	3.10	1.89	1.91	1.46	1.99	1.99	1.42
7	1.48	1.79	2.19	2.38	3.01	2.66	1.88	1.85	1.46	1.78	1.77	1.65
8	1.44	1.62	2.11	2.27	2.62	2.40	1.88	1.81	1.46	1.67	1.70	2.27
9	1.43	1.53	2.05	2.23	2.45	2.31	1.85	1.81	1.46	1.60	1.65	2.23
10	1.43	1.49	2.72	2.14	2.39	2.25	1.82	1.80	1.48	1.55	1.62	1.90
11	1.44	1.48	2.67	2.07	2.32	2.17	1.83	1.77	1.42	1.52	1.68	1.75
12	1.42	1.47	2.40	2.05	2.41	2.13	1.88	1.75	1.67	1.97	2.40	1.67
13	1.41	1.50	2.27	2.02	2.34	2.08	2.61	1.71	2.08	1.95	2.07	1.61
14	1.44	1.42	2.38	1.99	2.29	2.05	2.34	1.68	1.77	1.78	1.88	1.56
15	1.53	1.43	2.26	1.96	2.33	2.09	2.22	1.66	1.62	1.70	1.78	1.53
16	1.42	1.45	2.18	1.91	2.29	2.31	2.15	1.67	1.58	1.60	1.72	2.01
17	1.41	1.48	2.35	1.91	2.23	2.16	2.09	1.74	1.50	1.72	1.68	5.74
18	1.41	1.57	2.24	2.26	2.19	2.19	2.04	1.75	1.47	2.10	1.64	3.32
19	1.39	3.43	2.23	2.21	2.14	2.23	2.00	1.74	1.47	1.76	1.60	2.67
20	1.39	2.56	2.13	2.08	2.12	2.18	1.97	1.66	1.41	1.65	1.59	2.42
21	1.38	2.19	2.07	2.03	2.14	2.36	1.94	1.62	1.54	1.57	2.05	2.25
22	1.37	2.00	2.05	1.99	2.06	2.21	1.90	1.60	1.70	1.52	1.75	2.16
23	1.35	1.89	2.10	1.94	2.03	2.15	1.87	1.60	1.60	1.69	1.67	2.10
24	1.36	2.05	2.37	1.93	2.03	2.11	1.85	1.56	1.62	1.56	1.74	2.05
25	1.36	1.96	2.23	2.25	2.01	2.07	1.83	1.55	2.19	1.88	1.74	1.99
26	1.40	1.87	2.15	2.38	1.99	2.04	2.18	1.53	2.58	2.89	1.70	1.95
27	1.49	1.90	2.10	2.25	1.98	2.02	2.03	1.51	2.10	3.80	1.63	1.92
28	1.45	2.52	2.05	2.14	1.94	2.00	1.90	1.53	2.20	2.60	1.58	2.10
29	1.39	2.43	2.02	2.08	1.91	1.97	1.86	1.55	2.18	2.27	1.57	1.93
30	1.36	2.22	2.37	2.05	---	2.05	1.85	1.64	1.97	2.29	1.57	1.88
31	1.36	---	2.16	1.99	---	2.10	---	2.00	---	2.05	1.55	---
MEAN	1.43	1.82	2.23	2.13	2.27	2.18	1.99	1.74	1.70	1.92	1.77	2.05
MAX	1.53	3.43	2.72	2.66	3.14	3.10	2.61	2.10	2.58	3.80	2.40	5.74
MIN	1.35	1.35	1.91	1.91	1.91	1.90	1.82	1.51	1.41	1.52	1.55	1.42

0351751500 CHEOAH RIVER NEAR TAPOCO, NC—Continued



03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC

LOCATION.--Lat 35°02'24", long 83°57'33", Clay County, Hydrologic Unit 06020002, on right bank 20 ft upstream from bridge on Secondary Road 1134, 0.1 mi northwest of Brasstown, and 0.8 mi above mouth.

DRAINAGE AREA.--83.1 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1960-64, 1988. July 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,581.70 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 20, 2000.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	72	98	90	90	50	113	115	90	130	60	53
2	76	70	93	88	98	143	100	176	75	149	66	62
3	74	69	90	87	127	150	94	150	70	148	64	57
4	74	69	94	86	104	98	88	127	68	159	54	51
5	73	75	92	144	99	86	84	117	65	136	55	49
6	74	80	88	131	638	282	85	107	62	110	54	46
7	74	76	85	110	342	180	75	100	64	99	49	357
8	73	72	83	103	204	138	65	95	86	90	48	624
9	72	70	82	109	168	122	52	99	108	84	46	192
10	73	69	204	101	152	113	42	96	109	79	45	118
11	72	69	163	95	139	92	37	90	72	76	44	94
12	72	68	125	92	192	85	33	90	67	72	56	81
13	71	70	113	90	159	77	1,120	88	104	72	58	74
14	72	67	121	88	131	73	296	84	80	73	49	69
15	77	66	109	87	142	107	150	81	89	71	47	65
16	70	66	103	84	132	232	123	82	83	65	46	358
17	70	68	139	84	103	138	115	83	70	66	45	2,430
18	70	97	116	97	91	115	107	99	66	88	45	448
19	69	687	111	91	81	106	101	97	63	67	42	220
20	68	183	103	e84	77	96	98	79	60	62	42	155
21	68	127	97	e82	78	109	95	75	149	59	113	126
22	67	109	95	e81	66	89	92	72	111	57	79	110
23	66	98	95	e80	61	84	88	86	108	56	81	101
24	66	100	125	80	61	81	86	73	331	54	66	94
25	65	94	104	155	57	78	83	71	201	57	60	89
26	82	89	99	157	60	77	391	67	290	54	52	87
27	121	105	95	122	64	76	232	65	152	88	50	90
28	88	134	93	108	54	74	157	63	146	64	55	257
29	80	119	91	101	51	71	131	65	121	83	87	127
30	75	105	103	98	---	135	120	120	115	76	71	106
31	73	---	93	94	---	132	---	130	---	61	54	---
TOTAL	2,303	3,243	3,302	3,099	3,821	3,489	4,453	2,942	3,275	2,605	1,783	6,790
MEAN	74.3	108	107	100	132	113	148	94.9	109	84.0	57.5	226
MAX	121	687	204	157	638	282	1,120	176	331	159	113	2,430
MIN	65	66	82	80	51	50	33	63	60	54	42	46
CFSM	0.89	1.30	1.28	1.20	1.59	1.35	1.79	1.14	1.31	1.01	0.69	2.72
IN.	1.03	1.45	1.48	1.39	1.71	1.56	1.99	1.32	1.47	1.17	0.80	3.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003	2004
MEAN	51.0	76.4	85.1	115	134	132
MAX	74.3	108	132	150	203	168
(WY)	(2004)	(2004)	(2003)	(2002)	(2003)	(2003)
MIN	27.2	41.2	46.8	94.5	98.2	113
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2004)

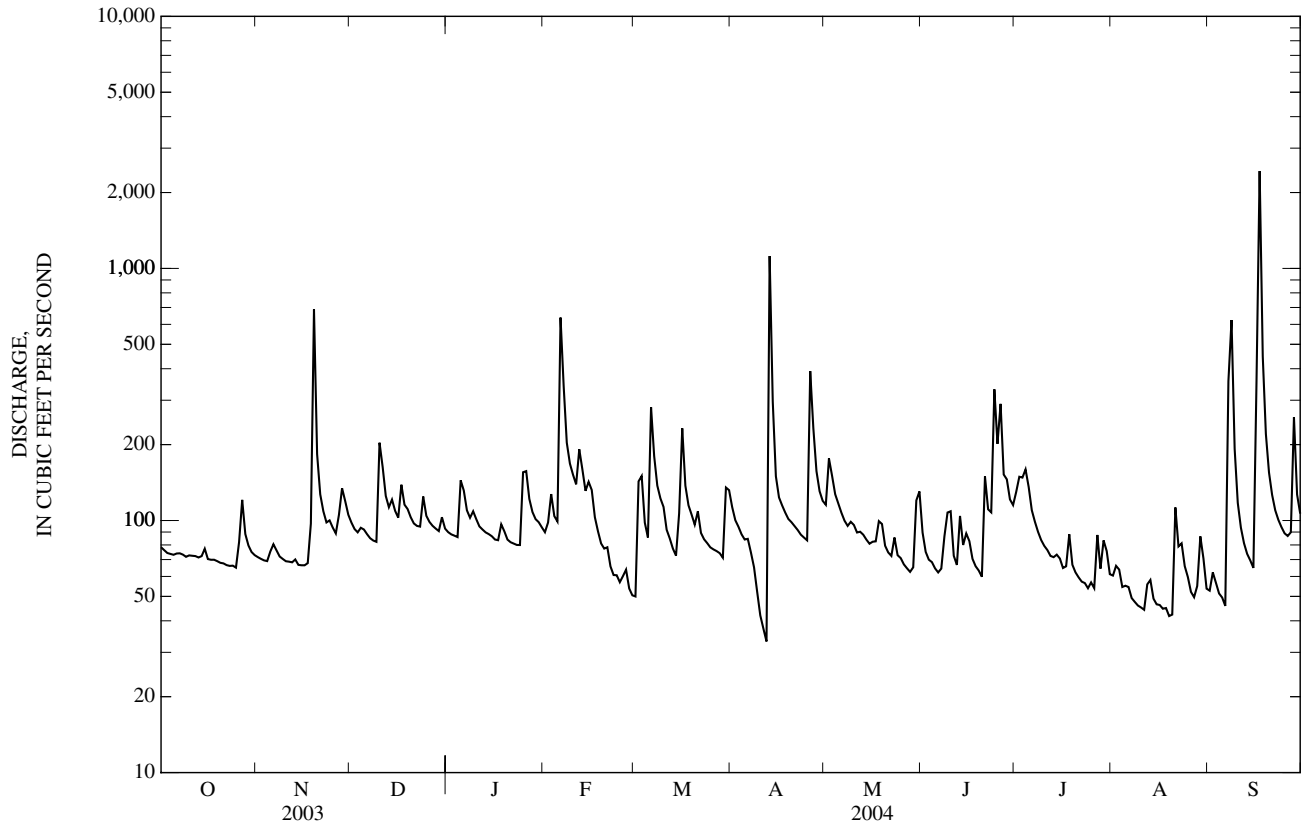
SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1999 - 2004
ANNUAL TOTAL	55,876	41,105	
ANNUAL MEAN	153	112	106
HIGHEST ANNUAL MEAN			153
LOWEST ANNUAL MEAN			72.5
HIGHEST DAILY MEAN	2,540	2,430	2,540
LOWEST DAILY MEAN	62	33	18
ANNUAL SEVEN-DAY MINIMUM	67	45	19
MAXIMUM PEAK FLOW		4,140	4,570
MAXIMUM PEAK STAGE		14.17	14.94
INSTANTANEOUS LOW FLOW		29	17*
ANNUAL RUNOFF (CFSM)	1.84	1.35	1.27
ANNUAL RUNOFF (INCHES)	25.01	18.40	17.27
10 PERCENT EXCEEDS	226	151	170
50 PERCENT EXCEEDS	118	88	83
90 PERCENT EXCEEDS	72	57	41

* See REMARKS.

e Estimated.

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC—Continued



03548500 HIWASSEE RIVER ABOVE MURPHY, NC

LOCATION.--Lat 35°04'53", long 84°00'10", Cherokee County, Hydrologic Unit 06020002, on right bank on U.S. Highway 64, 600 ft upstream from Will Scott Creek, 2.0 mi southeast of Murphy, and at mile 99.1.

DRAINAGE AREA.--406 mi².

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to September 2004 (discontinued). Published as "Hiwassee River at Murphy" 1897-1940. Records published for both sites August 1939 to April 1940. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORD.--WSP 583: 1899(M). WSP 973: Drainage area. WSP 1003: 1943. WSP 1306: 1901-2, 1904-17, 1919(M), 1922(M), 1924-26(M). WSP 1706: 1899, 1907.

GAGE.--Water-stage recorder. Datum of gage is 1,538.23 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to Jan. 30, 1921, nonrecording gage at bridge 2.8 mi downstream at 1,507.83 ft. Jan. 30, 1921, to Nov. 8, 1926, nonrecording gage 2.8 mi downstream at 1,509.83 ft. Nov. 9, 1926, to Apr. 30, 1940, water-stage recorder 2.8 mi downstream at 1,510.03 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation since 1924 caused by Mission power plant at Andrews Dam 7 mi upstream, normal regulated storage, about 75 ft³/s-day. Flow regulated since 1942 by Chatuge Lake (station 03546500) 22 mi upstream. Prior to regulation, maximum discharge: 23,100 ft³/s, Mar. 19, 1899, from rating curve extended above 5,000 ft³/s; gage height: 18.4 ft, from graph based on gage readings, site and datum then in use; minimum daily discharge: 10 ft³/s, Dec. 3, 1924, result of freezeup and filling of Lake Andrews, site and datum then in use. Minimum discharge for period of record also occurred Oct. 1, 2, 2000.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed is that of Mar. 19, 1899.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	682	679	744	398	686	321	373	423	400	1,650	324	728
2	342	297	863	404	449	423	352	606	646	1,540	648	518
3	331	315	1,230	416	593	590	345	634	336	1,290	1,200	264
4	329	1,020	1,720	370	952	463	333	542	299	802	1,270	371
5	321	1,060	1,280	1,260	1,380	428	323	483	421	1,410	1,020	352
6	355	692	938	2,250	3,230	708	317	442	331	1,030	351	332
7	1,100	655	1,070	2,110	2,970	691	319	404	274	912	293	1,110
8	1,350	1,040	1,120	2,040	2,430	558	313	383	318	783	274	2,270
9	1,420	913	921	1,260	1,240	501	306	368	276	844	924	887
10	1,320	1,050	1,180	964	632	473	296	360	398	767	1,310	1,330
11	916	1,180	1,280	757	551	431	300	345	561	452	1,220	1,480
12	684	1,130	1,730	557	707	404	304	351	787	470	744	1,650
13	1,100	1,140	1,640	610	611	383	1,040	334	640	672	411	1,630
14	1,420	1,330	978	428	555	371	756	329	617	655	288	1,730
15	1,450	642	936	666	551	407	574	312	612	491	272	1,560
16	1,320	292	1,550	1,010	517	592	499	307	804	621	249	2,190
17	1,120	286	2,080	408	475	510	448	313	1,010	493	545	6,700
18	669	272	1,760	684	472	464	418	329	912	436	1,150	3,430
19	301	2,190	2,000	1,450	419	445	395	376	476	294	976	2,600
20	901	849	1,000	1,680	403	415	377	335	280	373	830	2,360
21	1,210	942	745	983	414	427	363	312	637	564	711	2,220
22	1,190	805	458	863	392	387	350	301	1,020	804	519	2,080
23	1,230	409	448	831	385	367	334	321	746	729	859	2,140
24	623	889	687	471	371	360	325	287	1,360	248	989	2,130
25	290	1,690	678	609	359	353	317	279	1,120	339	1,070	1,640
26	334	1,660	484	1,260	351	344	987	299	1,190	422	1,020	1,590
27	1,000	815	470	657	355	339	767	504	559	666	581	1,640
28	1,360	1,020	449	449	338	334	550	342	1,160	739	368	2,000
29	571	1,170	1,010	410	327	328	473	278	1,560	639	280	1,710
30	1,210	691	1,720	401	---	403	436	549	1,620	411	420	1,640
31	1,140	---	960	1,170	---	393	---	511	---	355	650	---
TOTAL	27,589	27,123	34,129	27,826	23,115	13,613	13,290	11,959	21,370	21,901	21,766	52,282
MEAN	890	904	1,101	898	797	439	443	386	712	706	702	1,743
MAX	1,450	2,190	2,080	2,250	3,230	708	1,040	634	1,620	1,650	1,310	6,700
MIN	290	272	448	370	327	321	296	278	274	248	249	264

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, @ BY WATER YEAR (WY)

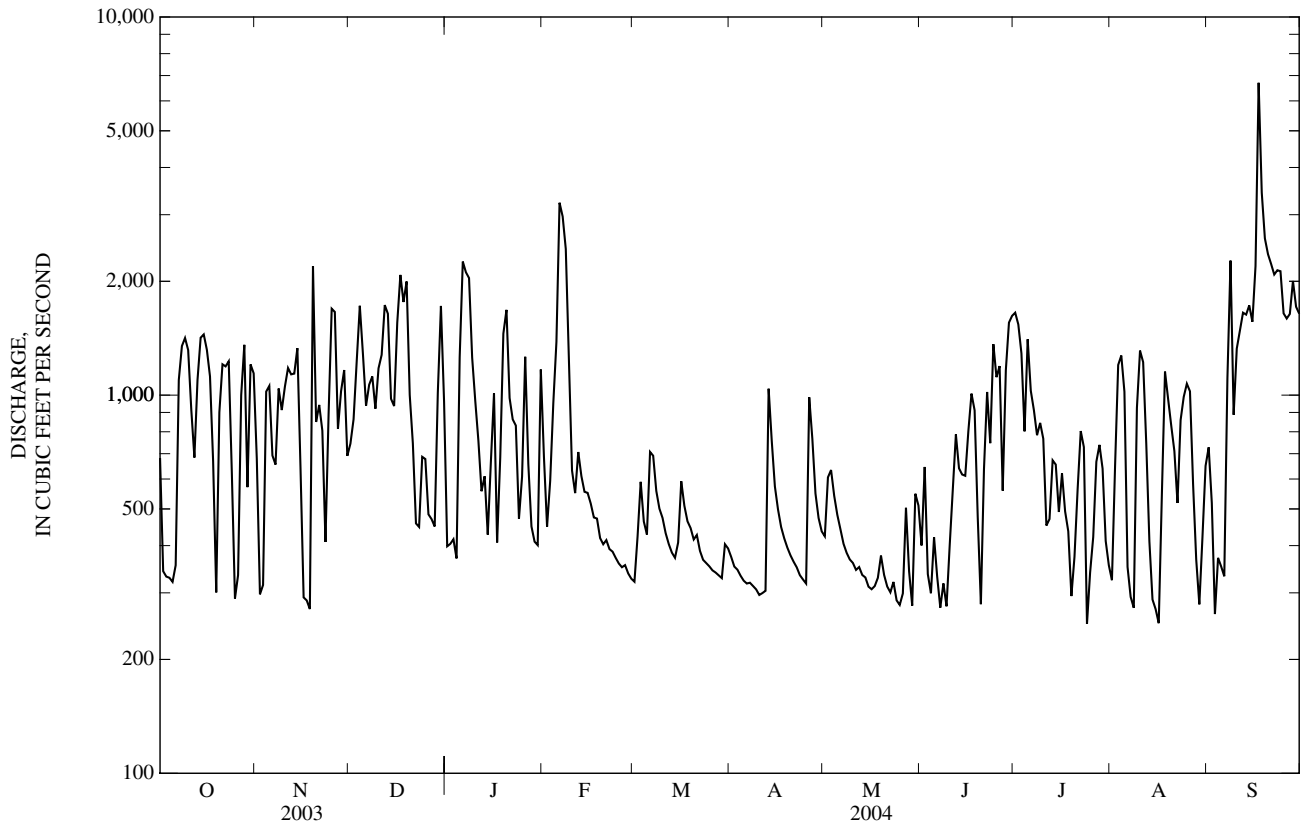
MEAN	536	594	936	1,118	1,191	1,081	1,012	928	887	882	863	738
MAX	1,530	1,654	2,532	2,462	3,076	2,784	2,155	2,041	1,852	1,517	1,674	1,743
(WY)	(1990)	(1990)	(1993)	(1974)	(1990)	(1990)	(1953)	(2003)	(1989)	(1989)	(1994)	(2004)
MIN	98.8	106	214	223	408	373	219	212	238	228	120	141
(WY)	(1953)	(1954)	(1948)	(1948)	(1954)	(1988)	(1986)	(1988)	(1953)	(1953)	(1953)	(1953)

03548500 HIWASSEE RIVER ABOVE MURPHY, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004 [@]	
ANNUAL TOTAL	417,705		295,963		896	
ANNUAL MEAN	1,144		809		1,414	
HIGHEST ANNUAL MEAN					1990	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	7,270	May 7	6,700	Sep 17	11,600	Feb 16, 1990
LOWEST DAILY MEAN	265	Sep 21	248	Jul 24	62	Oct 19, 1952
ANNUAL SEVEN-DAY MINIMUM	494	Oct 1	305	May 20	80	Oct 18, 1952
MAXIMUM PEAK FLOW			8,490	Sep 17	18,600	May 28, 1973
MAXIMUM PEAK STAGE			9.29	Sep 17	13.88	May 28, 1973
INSTANTANEOUS LOW FLOW			177	Sep 6	106*	Oct 2, 1993
10 PERCENT EXCEEDS	1,780		1,620		1,620	
50 PERCENT EXCEEDS	1,070		612		784	
90 PERCENT EXCEEDS	530		318		232	

[@] Regulated period only (1942-2004). See REMARKS.

* See REMARKS.



03550000 VALLEY RIVER AT TOMOTLA, NC

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, Hydrologic Unit 06020002, on right bank at site of former bridge on Secondary Road 1473 at Tomotla, 600 ft upstream from bridge on U.S. Highways 19 and 74, 0.2 mi upstream from Rogers Creek, 4.7 mi northeast of Murphy, and at mile 6.6.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

REVISED RECORDS.--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M). WDR NC-97-1: 1979-1994(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from flood profile by Tennessee Valley Authority, from rating curve extended above 5,800 ft³/s on basis of slope-conveyance study. Minimum discharge for period of record occurred several days in Aug. and Sept. 1925. Minimum discharge for current water year also occurred Sept. 07.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1898 reached a stage of 21.2 ft, from floodmark by Tennessee Valley Authority; discharge, about 20,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	84	268	241	223	194	227	209	181	160	156	70
2	112	83	231	230	249	339	214	329	148	193	143	72
3	108	81	208	222	363	373	208	316	134	179	166	70
4	106	81	336	214	294	307	198	274	127	194	129	66
5	104	91	341	592	275	279	190	249	120	183	120	64
6	103	109	302	585	1,190	645	185	227	113	175	115	60
7	107	97	267	420	1,030	542	181	208	114	150	101	103
8	113	89	242	353	613	421	179	194	116	133	96	253
9	101	85	222	329	472	372	173	191	119	121	91	156
10	100	82	451	291	413	334	166	183	141	111	88	116
11	100	81	455	265	366	301	167	196	113	105	85	140
12	96	81	358	250	432	282	174	190	108	124	260	103
13	94	88	309	237	381	264	480	172	113	126	138	92
14	95	79	356	226	352	250	360	166	107	105	110	85
15	98	79	316	217	353	273	306	157	118	105	99	79
16	90	81	290	205	324	424	275	151	110	91	94	171
17	89	85	406	200	301	355	252	147	100	87	96	1,710
18	88	122	346	286	287	322	234	156	95	115	88	737
19	87	1,260	322	258	275	297	221	165	92	89	83	363
20	85	445	284	230	265	279	210	146	87	82	81	254
21	83	284	257	219	267	285	201	137	88	78	126	201
22	82	224	244	210	247	256	195	133	124	73	116	170
23	80	192	240	200	237	242	185	132	119	77	93	152
24	80	246	335	195	233	233	176	125	123	70	87	137
25	79	228	285	338	224	225	170	122	180	107	84	127
26	87	203	264	392	219	217	367	118	262	172	80	119
27	132	237	247	331	215	209	291	116	150	899	77	117
28	105	428	232	291	205	203	247	113	189	278	78	161
29	93	426	221	267	198	197	224	113	216	215	82	120
30	88	323	305	253	---	244	212	341	165	185	86	109
31	85	---	257	236	---	241	---	257	---	160	75	---
TOTAL	2,988	6,074	9,197	8,783	10,503	9,405	6,868	5,733	3,972	4,942	3,323	6,177
MEAN	96.4	202	297	283	362	303	229	185	132	159	107	206
MAX	132	1,260	455	592	1,190	645	480	341	262	899	260	1,710
MIN	79	79	208	195	198	194	166	113	87	70	75	60
CFSM	0.93	1.95	2.85	2.72	3.48	2.92	2.20	1.78	1.27	1.53	1.03	1.98
IN.	1.07	2.17	3.29	3.14	3.76	3.36	2.46	2.05	1.42	1.77	1.19	2.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2004,® BY WATER YEAR (WY)

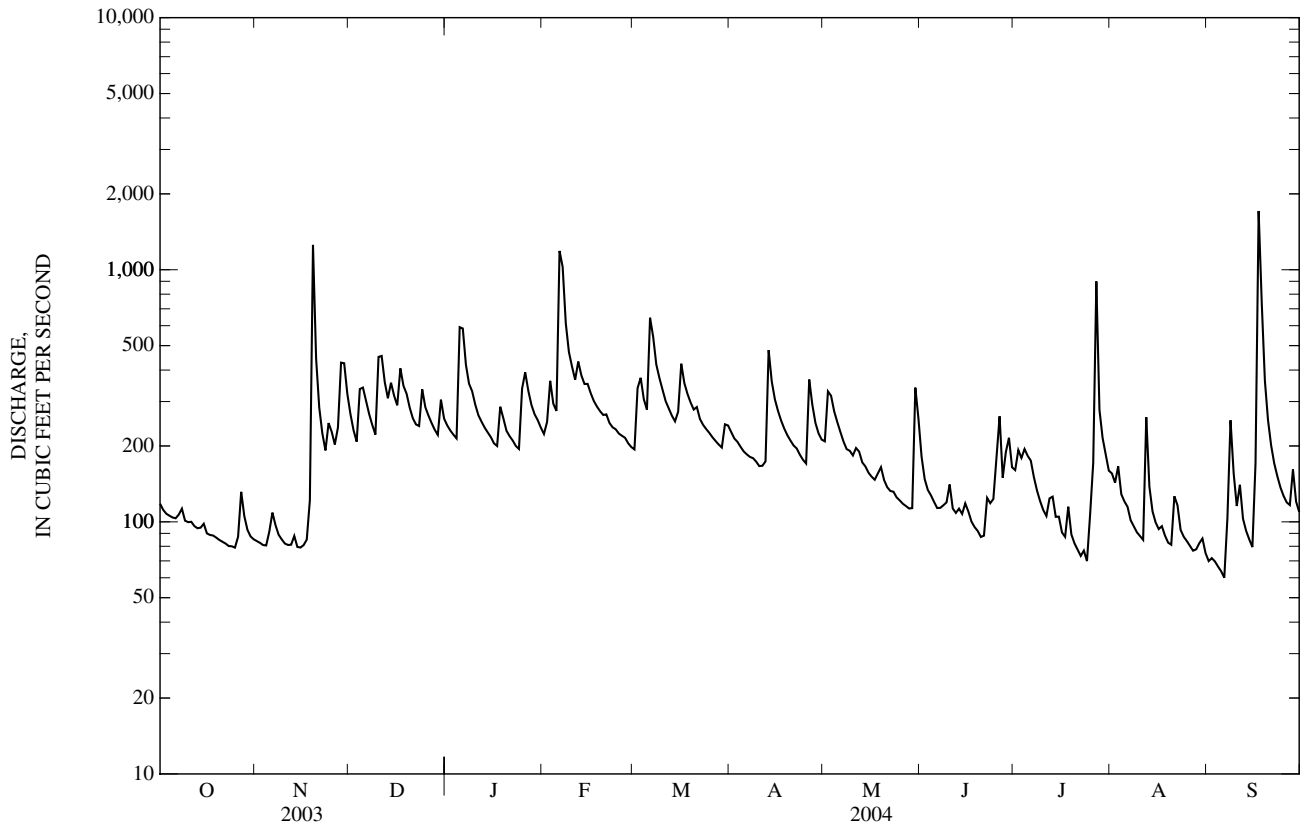
MEAN	98.9	160	288	395	452	455	365	265	191	170	136	105
MAX	442	685	1,045	936	1,022	1,379	835	755	607	443	563	434
(WY)	(1907)	(1930)	(1933)	(1974)	(1957)	(1917)	(1936)	(1929)	(1989)	(1949)	(1920)	(1928)
MIN	25.2	38.6	57.4	69.9	92.7	155	135	88.9	44.8	42.4	24.6	21.3
(WY)	(1955)	(1934)	(1934)	(1981)	(1941)	(1988)	(1986)	(1941)	(1988)	(1988)	(1925)	(1925)

03550000 VALLEY RIVER AT TOMOTLA, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1904 - 2004 [@]	
ANNUAL TOTAL	118,037		77,965		256	
ANNUAL MEAN	323		213		111	
HIGHEST ANNUAL MEAN					379	1922
LOWEST ANNUAL MEAN					111	1988
HIGHEST DAILY MEAN	4,650	May 6	1,710	Sep 17	8,190	Feb 16, 1995
LOWEST DAILY MEAN	79	Oct 25	60	Sep 6	12	Aug 27, 1925
ANNUAL SEVEN-DAY MINIMUM	82	Nov 10	68	Aug 31	13	Aug 24, 1925
MAXIMUM PEAK FLOW			2,460	Jul 27	18,000*	Nov 19, 1906
MAXIMUM PEAK STAGE			7.61	Jul 27	20.50	Nov 19, 1906
INSTANTANEOUS LOW FLOW			58*	Sep 6	12*	Aug 27, 1925
ANNUAL RUNOFF (CFSM)	3.11		2.05		2.46	
ANNUAL RUNOFF (INCHES)	42.22		27.89		33.41	
10 PERCENT EXCEEDS	524		354		497	
50 PERCENT EXCEEDS	260		185		178	
90 PERCENT EXCEEDS	95		85		60	

[@] See PERIOD OF RECORD.

* See REMARKS.



LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03514500 FONTANA LAKE

LOCATION.--Lat 35°27'07", long 83°48'18", Graham County, Hydrologic Unit 06010202, at Fontana Dam on Little Tennessee River, 9.6 mi upstream from Cheoah Dam, 5.7 mi upstream from Twenty Mile Creek, 9.0 mi north of Robbinsville, and at river mile 61.0.

DRAINAGE AREA.--1,571 mi².

PERIOD OF RECORD.--October 1944 to current year. Prior to November 1944, monthend content only, published in WSP 1306.

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

REMARKS.--Reservoir is formed by gravity, nonoverflow-type concrete dam. Spillway is equipped with four radial gates 35 ft high by 35 ft wide. Filling began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey) is 727,500 ft³/s-day, at 1,710.0 ft (top of gate) of which 476,900 ft³/s-day is controlled storage above 1,580.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 728,600 ft³/s-day, May 28, 1973; elevation, 1,710.20 ft. Minimum content observed (after first filling): 78,300 ft³/s-day, Jan. 29, 1955; elevation, 1,472.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 716,500 ft³/s-day, Sept. 18; elevation, 1,707.94 ft. Minimum content observed: 411,200 ft³/s-day, Feb. 3; elevation, 1,637.16 ft.

03546500 CHATUGE LAKE

LOCATION.--Lat 35°01'04", long 83°47'27", Clay County, Hydrologic Unit 06020002, at Chatuge Dam on Hiwassee River, 2.0 mi upstream from Hyatt Mill Creek, 2.5 mi downstream from Georgia-North Carolina Stateline, 2.4 mi southeast of Hayesville, and at river mile 121.0.

DRAINAGE AREA.--189 mi².

PERIOD OF RECORD.--February 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a rolled, earthfill dam with side-channel spillway equipped with flashboards. Dam completed and filling began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey) is 121,200 ft³/s-day, at 1,928.0 ft (top of flashboard), of which 61,700 ft³/s-day is controlled storage above 1,905.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority. (See station 03548500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 124,200 ft³/s-day, Apr. 20, 1943; elevation, 1,927.80 ft. Minimum content observed (after first filling): 9,400 ft³/s-day, Sept. 5, 1947, and Jan. 27, 1956; elevation, 1,860.11 ft, Sept. 5, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 113,900 ft³/s-day, June 28; elevation, 1,925.89 ft. Minimum content observed: 73,500 ft³/s-day, Jan. 23; elevation, 1,911.64 ft.

03554500 HIWASSEE LAKE

LOCATION.--Lat 35°09'01", long 84°10'40", Cherokee County, Hydrologic Unit 06020002, at Hiwassee Dam on Hiwassee River, 3.9 mi upstream from Shoal Creek, 0.3 mi northwest of village of Hiwassee Dam, and at river mile 75.8.

DRAINAGE AREA.--968 mi².

PERIOD OF RECORD.--September 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.63 ft below sea level.

REMARKS.--Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft high by 32 ft wide. Slight filling began Apr. 13, 1939, during construction; systematic filling operation began Jan. 14, 1940; dam completed February 1940; water in reservoir and first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey) is 218,800 ft³/s-day at 1,526.5 ft (top of gate), of which 154,300 ft³/s-day is controlled storage above 1,450.0 ft, normal minimum pool elevation. Reservoir is used for navigation, floodcontrol, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 223,400 ft³/s-day, May 28, 1973; elevation, 1,528.02 ft. Minimum content observed (after first filling): 35,800 ft³/s-day, Jan. 28, 1948; elevation, 1,413.41 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 189,900 ft³/s-day, Aug. 11; elevation, 1,517.15 ft. Minimum content observed: 81,200 ft³/s-day, Jan. 19; elevation, 1,463.95 ft.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

OTHER RESERVOIRS

The following reservoirs in the Tennessee River basin are described below. Records of content are not published herein.

03447832 LAKE JULIAN

LOCATION.--Lat 35°28'37", long 82°32'51", Buncombe County, Hydrologic Unit 06010105, on Powell Creek near Skyland.

DRAINAGE AREA.--4.78 mi².

PERIOD OF RECORD.--Prior to November 1967 published as Asheville Steam-Electric Generating Plant Lake.

REMARKS.--Total capacity is 4,540 ft³/s-day, of which 2,120 ft³/s-day is controlled storage. Filling began Mar. 27, 1963, and lake reached spillway elevation, 2,160 ft, June 3, 1963. Most of initial storage and occasional, supplemental storage provided by pumped diversion from French Broad River. Lake is a cooling-water reservoir for Carolina Power and Light Co. plant.

03448959 BURNETT LAKE

LOCATION.--Lat 35°39'41", long 82°20'45", Buncombe County, Hydrologic Unit 06010105, on North Fork Swannanoa River near Black Mountain.

DRAINAGE AREA.--22 mi².

REMARKS.--Total capacity at crest of spillway is 11,600 ft³/s-day, of which 8,900 ft³/s-day is controlled storage. Filling began Jan. 28, 1954. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03450134 BEETREE RESERVOIR

LOCATION.--Lat 35°38'28", long 82°24'04", Buncombe County, Hydrologic Unit 06010105, on Beetree Creek near Swannanoa.

DRAINAGE AREA.--7.62 mi².

REMARKS.--Total capacity is 844 ft³/s-day, of which 823 ft³/s-day is controlled storage. Dam completed December 1926, and filling began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03455773 LAKE LOGAN

LOCATION.--Lat 35°25'17", long 82°55'29", Haywood County, Hydrologic Unit 06010106, on West Fork Pigeon River near Canton and at river mile 7.0.

DRAINAGE AREA.--33.3 mi².

REMARKS.--Total capacity is 1,040 ft³/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330.)

03458319 LAKE JUNALUSKA

LOCATION.--Lat 35°31'39", long 82°57'49", Haywood County, Hydrologic Unit 06010106, on Richland Creek at Lake Junaluska and at river mile 2.4.

DRAINAGE AREA.--63.6 mi².

REMARKS.--Total surface area is about 195 acres. The lake reached spillway elevation in the spring of 1913.

03460242 WATERVILLE LAKE

LOCATION.--Lat 35°41'41", long 83°03'02", Haywood County, Hydrologic Unit 06010106, at Waterville Dam on Pigeon River, 0.1 mi downstream from Cataloochee Creek, 5.5 mi southeast of Mount Sterling, and at river mile 38.0.

DRAINAGE AREA.--455 mi².

PERIOD OF RECORD.--October 1961 to current year. Prior to October 1979, published as Lake Walters.

REMARKS.--Reservoir is formed by a single-arch, variable-radius, concrete dam with 14 taintor gates 10 ft high by 24 ft wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity is 12,800 ft³/s-day at 2,258.60 ft (top of gate), of which 10,400 ft³/s-day is controlled storage above 2,175 ft, normal minimum pool elevation. Reservoir is used for power. Prior to Jan. 1, 1971, records furnished by Carolina Power and Light Co. New capacity table was put into use Jan. 1, 1971.

03500466 SEQUOYAH LAKE

LOCATION.--Lat 35°04'02", long 83°13'31", Macon County, Hydrologic Unit 06010202, on Cullasaja River near Highlands, and at river mile 18.4.

DRAINAGE AREA.--14.4 mi².

REMARKS.--Total capacity is 233 ft³/s-day (at crest of spillway), of which approximately 116 ft³/s-day is usable. Filling began in 1926.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03504500 NANTAHALA LAKE

LOCATION.--Lat 35°11'58", long 83°39'05", Macon County, Hydrologic Unit 06010202, at Nantahala Dam on Nantahala River, 5.5 mi upstream from Whiteoak Creek, 4.2 mi southeast of Topton, and at river mile 22.8.

DRAINAGE AREA.--91.0 mi².

PERIOD OF RECORD.--January 1942 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by rockfill dam with side-channel, gate-controlled spillway supplemented by fuse-plug dam. Dam completed and filling began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey) is 69,200 ft³/s-day at 2,890.0 ft (top of gates), of which 63,500 ft³/s-day is controlled storage above 2,758.84 ft, normal minimum pool elevations. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE

These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project.

EAST FORK DAM

LOCATION.--Lat 35°12'49", long 83°00'07", Jackson County, Hydrologic Unit 06010203, on Tuckasee River near Tuckasee.

DRAINAGE AREA.--25.1 mi².

REMARKS.--Total capacity of East Fork Lake is 671 ft³/s-day, of which 625 ft³/s-day is controlled storage. Filling began April 18, 1955.

WOLF CREEK DAM

LOCATION.--Lat 35°13'18", long 83°00'00", Jackson County, Hydrologic Unit 06010203, on Wolf Creek near Tuckasee.

DRAINAGE AREA.--15.2 mi².

REMARKS.--Total capacity of Wolf Creek Lake is 5,070 ft³/s-day, of which 3,850 ft³/s-day is controlled storage. Filling began Mar. 22, 1955.

03507216 BEAR CREEK LAKE

LOCATION.--Lat 35°14'27", long 83°04'23", Jackson County, Hydrologic Unit 06010203, on Tuckasee River near Tuckasee.

DRAINAGE AREA.--74.8 mi².

REMARKS.--Total capacity is 17,500 ft³/s-day, of which 2,290 ft³/s-day is controlled storage. Filling began Oct. 9, 1953.

03507289 CEDAR CLIFF LAKE

LOCATION.--Lat 35°15'12", long 83°05'58", Jackson County, Hydrologic Unit 06010203, on Tuckasee River near Tuckasee and at river mile 51.9.

DRAINAGE AREA.--80.3 mi².

REMARKS.--Total capacity is 3,200 ft³/s-day, of which 350 ft³/s-day is controlled storage. Filling began Apr. 26, 1952.

03507500 THORPE RESERVOIR

LOCATION.--Lat 35°11'46", long 83°09'10", Jackson County, Hydrologic Unit 06010203, at Thorpe Dam on West Fork Tuckasee River, 3.0 mi upstream from Shoal Creek, and 2.3 mi northwest of Glenville, and at river mile 9.7.

DRAINAGE AREA.--36.7 mi².

PERIOD OF RECORD.--February 1941 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir.

REMARKS.--Reservoir is formed by earth and rock dam and six 40 ft fuse-plug dams with side-channel spillway equipped with two taintor gates 12 ft high by 25 ft wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey) is 35,500 ft³/s-day, at 3,100.0 ft (top of gate), of which 33,700 ft³/s-day is controlled storage above 3,023.25 ft, normal minimum pool elevation. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03515152 CHEOAH LAKE

LOCATION.--Lat 35°26'54", long 83°56'11", Graham County, Hydrologic Unit 06010202, on Little Tennessee River at Cheoah and at river mile 51.4.

DRAINAGE AREA.--1,608 mi².

REMARKS.--Total capacity is 17,700 ft³/s-day, of which 920 ft³/s-day is controlled storage. Filling began Dec. 8, 1918.

03516500 SANTEETLAH LAKE

LOCATION.--Lat 35°22'38", long 83°52'33", Graham County, Hydrologic Unit 06010204, at Santeetlah Dam on Cheoah River, 1.0 mi downstream from Santeetlah Creek, 5.5 mi northwest of Robbinsville, and at river mile 9.3.

DRAINAGE AREA.--176 mi².

PERIOD OF RECORD.--December 1927 to September 1995. Prior to October 1946 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft high by 25 ft wide. Dam completed and filling began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971) is 78,800 ft³/s-day (top of gate) at elevation 1,817.0 ft, of which 66,600 ft³/s-day is controlled storage above 1,740.08 ft, normal minimum pool elevation. Reservoir is used for power.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03555500 APPALACHIA LAKE

LOCATION.--Lat 35°10'04", long 84°17'49", Cherokee County, Hydrologic Unit 06020002, at Appalachia Dam on Hiwassee River, 9.8 mi downstream from Hiwassee Dam, 0.1 mi upstream from North Carolina-Tennessee State line, 1.5 mi northeast of Farner, Tennessee, and at river mile 66.0.

DRAINAGE AREA.--1,018 mi².

PERIOD OF RECORD.--February 1943 to September 1995.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 10 radial gates. Dam completed and filling began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey) is 29,100 ft³/s-day at 1,280.0 ft (top of gate), of which 4,400 ft³/s-day is controlled storage above 1,272.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

OHIO RIVER BASIN

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation (feet)	Contents (cfs- days)	Change in contents (cfs- days)	Gage height (feet)	Contents (cfs- days)	Change in contents (cfs- days)
		03524500 Fontana Lake				
Sept. 30	1,679.43	557,200	---	1,919.37	93,500	---
Oct. 31	1,660.31	496,800	-80,400	1,915.29	82,500	-11,000
Nov. 30	1,661.07	499,800	3,000	1,915.03	81,800	-700
Dec. 31	1,649.51	455,200	-44,600	1,913.30	77,500	-4,300
CAL YR 2003		---	10,100		---	-2,800
		03546500 Chatuge Lake				
Jan. 31	1,638.58	416,000	-39,200	1,912.14	74,700	-2,800
Feb. 28	1,647.26	446,900	30,900	1,915.41	82,800	8,100
Mar. 31	1,652.63	467,000	20,100	1,918.98	92,400	9,600
Apr. 30	1,674.67	556,400	89,400	1,922.46	102,700	10,300
May 31	1,690.07	626,200	69,800	1,925.24	111,700	9,000
June 30	1,701.51	682,800	56,600	1,925.44	112,300	600
July 31	1,703.99	695,600	12,800	1,924.88	110,500	-1,800
Aug. 31	1,696.26	656,300	-39,300	1,922.46	102,700	-7,800
Sept. 30	1,696.65	658,200	1,900	1,923.35	105,500	2,800
WTR YR 2004		---	81,000		---	12,000
		03554500 Hiwasee Lake				
Sept. 30	1,506.74	162,600	---			
Oct. 31	1,495.68	136,400	-26,200			
Nov. 30	1,482.77	111,200	-25,200			
Dec. 31	1,472.51	93,700	-17,500			
CAL YR 2003		---	-15,800			
Jan. 31	1,470.21	90,100	-3,600			
Feb. 28	1,480.77	107,700	17,600			
Mar. 31	1,487.98	120,600	12,900			
Apr. 30	1,500.29	146,900	26,300			
May 31	1,508.68	167,500	20,600			
June 30	1,513.06	178,800	11,300			
July 31	1,515.40	185,100	6,300			
Aug. 31	1,511.68	175,200	-9,900			
Sept. 30	1,507.15	163,700	-11,500			
WTR YR 2004		---	1,100			

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 2004

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°19'26", long 76°52'27" 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 [†] , 1993-03	12-14-03	9.06	342

[†]Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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MEASUREMENTS AT MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. These measurements and others collected for some special reason are called measurements at miscellaneous sites.

Station Number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Date	Discharge (ft ³ /s)
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DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004, IN ATLANTIC SLOPE BASINS

ROANOKE RIVER BASIN

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, 1978-2003	11-21-03 3-8-04 7-1-04 9-21-04	10.4 8.45 5.51 5.74
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, 1979-2003	11-21-03 3-8-04 7-1-04 9-21-04	83.3 36.8 44.5 44.9

PAMLICO RIVER BASIN

02081547 Fishing Creek	Tar River	Lat 36°13'22", long 78°34'35", Granville County, Hydrologic Unit 03020101, at bridge on Secondary Road 1643, 2.9 mi upstream from mouth, and 6.3 mi south of Oxford.	44.1	1970-73, 1997-2003	11-24-03 3-8-04 7-2-04 8-19-04	9.45 19.3 5.43 25.4
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	1997-2003	11-24-03 3-4-04 7-1-04 9-20-04	71.2 113 26.7 210

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, 1997-2003	8-29-03 12-4-03 3-19-04 5-14-04 7-29-04	12.1 16.3 19.0 19.2 46.2
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, 1997-2003	12-5-03 3-1-04 5-10-04 7-30-04	1.09 2.18 0.37 0.83

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Date	Discharge (ft ³ /s)
CAPE FEAR RIVER BASIN						
02093250 Haw River	Cape Fear River	Lat 36°12'47", long 79°57'24", Guilford County, Hydrologic Unit 03030002, on Secondary Road 2109, 0.2 mi downstream of Rocky Branch, and 3.3 mi northeast of Oak Ridge.	14.1	1971, 1973, 1984, 1986-2003	3-11-04 5-4-04 8-24-04	9.18 11.6 0
02093423 Little Troublesome Creek	Haw River	Lat 36°16'53", long 79°36'37", Rockingham County, Hydrologic Unit 03030002, at bridge on Secondary Road 2600, 0.8 mi west of Thompsonville, and 1 mi upstream from mouth.	12.1 ^a	1970-73, 1976-77, 1996-2003	11-18-03 1-12-04 4-28-04 8-25-04	7.44 10.6 9.65 4.31
02095091 South Buffalo Creek	Buffalo Creek	Lat 36°06'45", long 79°40'19", Guilford County, Hydrologic Unit 03030002, at bridge on Secondary Road 2821, 0.8 mi northwest of McLeansville, and 1.4 mi upstream from mouth.	43.5	1969-70, 1973, 1976-81, 1983-89, 1991-2003	3-11-04 4-29-04 8-25-04	53.2 45.4 29.3
02095681 Reedy Fork	Haw River	Lat 36°10'23", long 79°30'38", Alamance County, Hydrologic Unit 03030002, at bridge on State Highway 87 at Ossipee, and 0.5 mi upstream from mouth.	256	1969-70, 1973, 1976-2003	4-28-04 8-25-04	149 75.1
02096230 Jordan Creek	Stony Creek	Lat 36°11'20", long 79°23'43", Alamance County, Hydrologic Unit 03030002, at bridge on Secondary Road 1754, 1.0 mi south of Union Ridge, and 2.0 mi above mouth.	24.1	1949-57, 1959-62, 1966, 1997-2003	11-20-03 1-12-04 4-28-04 8-25-04	12.8 10.1 7.59 1.80
02096829 Haw River	Cape Fear River	Lat 35°56'29", long 79°18'58", Alamance County, Hydrologic Unit 03030002, at bridge on Secondary Road 2171 at Saxapahaw, 8.5 mi upstream from Motes Creek.	1083	1974-75, 1979-86, 1989-91, 1993, 1996-2003	11-20-03 4-29-04 6-24-04 8-26-04	1590 663 651 249
02097521 Morgan Creek	New Hope River	Lat 35°51'48", long 79°00'35", Chatham County, Hydrologic Unit 03030002, at bridge on Secondary Road 1726, 2 mi upstream from Cub Creek, and 4 mi north of Farrington.	45.6	1970, 1973, 1976, 1978, 1980-2003	11-20-03 3-9-04 6-21-04 8-25-04	33.7 24.7 8.74 10.2
02099484 Richland Creek	Deep River	Lat 35°56'26", long 79°54'08", Guilford County, Hydrologic Unit 03030003, at bridge on Secondary Road 1147, 0.2 mi upstream from mouth, and 4 mi southwest of Groomtown.	16.2	1971, 1973-76, 1978-2003	3-12-04	30.2

^a Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
CAPE FEAR RIVER BASIN--Continued						
02101001 Bear Creek	Deep River	Lat 35°26'26", long 79°35'20", Moore County, Hydrologic Unit 03030003, at bridge on State Highway 705, 0.5 mi north of Robbins, and 1 mi downstream of Cabin Creek.	139	1973-74, 1985-2003	11-26-03	46.3
					4-7-04	58.0
					4-22-04	45.6
					8-24-04	9.91
02102634 Upper Little River	Cape Fear River	Lat 35°19'33", long 78°43'26", Harnett County, Hydrologic Unit 03030004, at bridge on Secondary Road 2021, 1.5 mi upstream from mouth, and 2.8 mi west of Erwin.	217	1968, 1974-76, 1979, 1985-2003	2-2-04	214
					3-11-04	229
					4-30-04	64.2
					6-23-04	33.6
02104279 Rockfish Creek	Cape Fear River	Lat 34°58'10", long 79°06'40", Hoke County, Hydrologic Unit 03030004, at bridge on Secondary Road 1432, 0.2 mi downstream of Puppy Creek, and 1.2 mi northeast of Arabia.	150 ^a	1973-74, 1978, 1980-91, 1997-2003	4-6-04	165
					9-21-04	286
PEE DEE RIVER BASIN						
02115860 Muddy Creek	Yadkin River	Lat 36°00'01", long 80°20'25", Forsyth County, Hydrologic Unit 03040101, 100 ft upstream from bridge on Secondary Road 2995, 0.2 mi downstream of Salem Creek and 1.8 mi east of Muddy Creek.	186	1964-87, 1988-93, 1996-2003	10-1-03	158
					4-23-04	145
02120521 Third Creek	South Yadkin River	Lat 35°46'03", long 80°37'34", Rowan County, Hydrologic Unit 03040102, at bridge on Secondary Road 1970, and 2.2 mi west of Woodleaf.	96.6	1985-2003	2-19-04	93.3
					4-15-04	170
					5-25-04	49.6
					9-2-04	26.1
02123500 Uwharrie River	Pee Dee River	Lat 35°25'47", long 80°01'05", Montgomery County, Hydrologic Unit 03040103, at State Highway 109, 1 mi upstream from McLeans Creek, and 3 mi south of Eldorado.	342	1938-71 [†] , 1981-2003	4-7-04	199
					6-28-04	129
02123881 Rocky River	Pee Dee River	Lat 35°28'29", long 80°46'48", Mecklenburg County, Hydrologic Unit 03040105, at bridge on Secondary Road 1608, 1.3 mi upstream from West Branch, and 4.2 mi southeast of Davidson	13.4	1970-2003	2-19-04	17.5
					4-30-04	10.1
					8-20-04	8.87
					9-24-04	8.10
02124374 Irish Buffalo Creek	Rocky River	Lat 35°20'50", long 80°32'52", Cabarrus County, Hydrologic Unit 03040105, at bridge on Secondary Road 1132, 1 mi south of Faggarts Crossroads, and 1 mi upstream from mouth.	45.4	1974-84, 1986-2003	2-11-04	25.3
					2-19-04	26.6
					7-13-04	9.66

^a Approximately.[†] Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
PEE DEE RIVER BASIN--Continued						
02124401 Rocky River	Pee Dee River	Lat 35°19'26", long 80°30'59", Cabarrus County, Hydrologic Unit 03040105, at bridge on U.S. Highway 601, 1 mi upstream from Hamby Branch, and 3 mi southeast of Faggarts Crossroads.	393	1970-71, 1973-2003	2-19-04	300
					5-12-04	147
					7-13-04	114
02125126 Long Creek	Rocky River	Lat 35°13'05", long 80°15'28", Stanly County, Hydrologic Unit 03040105, at bridge on Secondary Road 1917, 1 mi upstream from mouth, and 4 mi east of Oakboro.	198	1970-71, 1973-2003	1-20-04	47.1
					5-25-04	19.0
02125482 Richardson Creek	Rocky River	Lat 35°04'16", long 80°24'25", Union County, Hydrologic Unit 03040105, at bridge on Secondary Road 1649, 1.2 mi downstream of Watson Creek, and 1.5 mi northwest of Fairfield.	153	1961-62, 1981-84, 1986-2003	3-12-04	30.1
					5-24-04	8.24
					8-26-04	9.86
02129341 Hitchcock Creek	Pee Dee River	Lat 34°55'05", long 79°49'50", Richmond County, Hydrologic Unit 03040201, downstream of dam at Cordova, and 1.2 mi upstream from mouth.	134	1970-71, 1974, 1979-84, 1986-2003	2-19-04	219
					4-21-04	83.0
					7-20-04	25.5
02129527 Jones Creek	Pee Dee River	Lat 34°54'15", long 79°55'51", Anson County, Hydrologic Unit 03040201, at bridge on State Highway 145, 2.9 mi downstream of Hale Creek, and 3.1 mi southwest of Pee Dee.	92.8	1985-2003	2-19-04	69.3
					4-21-04	22.0
					7-20-04	5.66
02129558 Marks Creek	Pee Dee River	Lat 34°51'45", long 79°43'09", Richmond County, Hydrologic Unit 03040201, at bridge on Secondary Road 1812, 1.3 mi downstream of City Lake spillway, and 2.4 mi southwest of Hamlet.	12.9	1970-71, 1979-84, 1986-2001, 2003	2-19-04	15.3
					4-21-04	8.74
					7-20-04	3.96
SANTEE RIVER BASIN						
02141245 Lower Creek	Catawba River	Lat 35°49'31", long 81°38'10", Burke County, Hydrologic Unit 03050101, at bridge on Secondary Road 1501, 0.8 mi downstream of Husband Creek, and 7 mi northeast of Morganton.	89.5	1949-50, ^b 1964-69, ^b 1972-73, 1975-84, 1986-92, 1993-94, [†] 1995-2003	3-8-04	83.4
					5-12-04	65.0
					6-30-04	78.0

^b Baseflow.[†] Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
SANTEE RIVER BASIN--Continued						
0214272204 Dutchmans Creek	Catawba River	Lat 35°20'10", long 81°00'50", Gaston County, Hydrologic Unit 03050102, at bridge on Secondary Road 1918 and 0.7 mi west of Mountain Island.	116	1986-2003	4-1-04 5-24-04	212 72.5
02143027 Henry Fork	South Fork Catawba River	Lat 35°39'27", long 81°18'33", Catawba County, Hydrologic Unit 03050102, at bridge on Secondary Road 1143, 1.7 mi upstream from mouth and 2.5 mi northwest of Startown.	110	1970-71, 1973-74, 1978-80, 1996-2003	3-4-04 4-29-04 6-29-04	145 106 114
02143069 South Fork Catawba River	Catawba River	Lat 35°37'58", long 81°18'20", Catawba County, Hydrologic Unit 03050102, at bridge on State Highway 10, 1 mile downstream from Henry Fork, and 2.2 miles west of Startown.	210	1974-77, 1979-88, 1991-93, 1997-2003	3-4-04 4-29-04 6-29-04	263 210 265
02143260 Clark Creek	South Fork Catawba River	Lat 35°28'30", long 81°16'00", Lincoln County, Hydrologic Unit 03050102, at bridge on Secondary Road 1008 at Lincolnton, and 0.2 mi upstream from mouth.	91.2	1947, 1949-57, 1962-64, 1970-72, 1975, 1978-2003	12-3-03 4-1-04 7-8-04	68.4 419 51.8
02145640 Crowders Creek	Catawba River	Lat 35°08'36", long 81°09'03", York County, South Carolina, Hydrologic Unit 03050101, at bridge on Kendricks Road, (SC564), downstream from Rocky Branch and 3.5 mi east-southeast of Bowling Green, South Carolina.	89	1970-77, 1979-91, 1996-2003	12-3-03 2-11-04	50.6 79.1
02146800 Sugar Creek	Catawba River	Lat 35°00'21", long 80°54'09", York County, Hydrologic Unit 03050103, at bridge on State Highway 160, 0.7 mi downstream from Clems Branch, and 2.6 mi east of Fort Mill, S.C.	262	1969, 1974-78 [†] , 1982-2003	4-1-04 8-26-04	1290 202
02152596 First Broad River	Broad River	Lat 35°13'03", long 81°36'28", Cleveland County, Hydrologic Unit 03050105, at bridge on Secondary Road 1140, 3 mi upstream from mouth, and 4.8 mi northwest of Earl.	296	1968-77, 1980-2003	2-25-04 5-6-04	307 278
02153456 Buffalo Creek	Broad River	Lat 35°10'20", long 81°31'02", Cleveland County, Hydrologic Unit 03050105, at bridge on State Highway 98, 0.1 mi upstream from North Carolina-South Carolina State line, and 4 mi west of Grover.	161	1968-77, 1979-2003	2-25-04 5-6-04	161 116

† Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
SAVANNAH RIVER BASIN						
02184242 Horse- pasture River	Toxaway River	Lat 35°05'33", long 82°58'34", Transylvania County, Hydrologic Unit 03060101, at bridge on State Highway 281, and 4 mi southwest of Lake Toxaway.	24.1	1985-2003	2-11-04	122
					6-2-04	68.3
					6-22-04	130
					8-25-04	69.4
KANAWHA RIVER BASIN						
03160271 South Fork New River	New River	Lat 36°13'14", long 81°38'25", Watauga County, Hydrologic Unit 05050001, at bridge on U.S. Highway 421, and 2 mi east of Boone.	34.8	1925, 1955-56, 1960, 1962, 1974-2003	10-30-03	50.0
					3-17-04	78.5
					4-22-04	74.5
					8-25-04	33.8
03162500 North Fork New River	New River	Lat 36°30'14", long 81°23'25", Ashe County, Hydrologic Unit 05050001, 0.2 mi downstream of bridge on State Highway 16 at Crumpler, and 6 mi upstream from South Fork.	277	1930-58 [†] , 1977, 1981-2003	10-8-03	227
					4-29-04	544
					8-25-04	173
TENNESSEE RIVER BASIN						
03446569 Mud Creek	French Broad River	Lat 35°21'10", long 82°27'51", Henderson County, Hydrologic Unit 06010105, at bridge on Secondary Road 1508, 0.2 mi downstream of Clear Creek, and 0.6 mi northeast of Balfour.	97.4	1968-74, 1977, 1992-2003	12-31-03	158
					2-27-04	180
					5-11-04	95.9
03457124 Pigeon River	French Broad River	Lat 35°32'05", long 82°54'41", Haywood County, Hydrologic Unit 06010106, at bridge on Secondary Road 1818 at Clyde, and 0.2 mi down- stream of Chambers Branch.	162	1969-78, 1980-2003	10-29-03	198
					3-9-04	351
					4-21-04	282
					9-3-04	297
03458121 Richland Creek	Pigeon River	Lat 35°30'30", long 82°58'19", Haywood County, Hydrologic Unit 06010106, at bridge on Secondary Road 1184, 0.8 mi upstream from Raccoon Creek, and 1.5 mi northeast of Waynesville.	48.0	1981-2003	10-29-03	51.3
					3-9-04	113
					4-21-04	85.7
					9-3-04	72.9
03461976 North Toe River	Nolichucky River	Lat 35°58'51", long 82°00'59", Avery County, Hydrologic Unit 06010108, at bridge on U.S. Highway 19E, 0.1 mi downstream of Jones Creek, 0.7 mi north of Ingalls, and at mile 50.9.	74.1	1969-71, 1973-74, 1976-2003	12-29-03	165
					3-16-04	193
					4-23-04	160

[†] Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2004--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued						
03463021 North Toe River	Nolichucky River	Lat 35°55'46", long 82°06'57", Mitchell County, Hydrologic Unit 06010108, at bridge on Secondary Road 1162 at Penland, 0.4 mi down- stream of Bear Creek, and at mile 27.6.	145	1969-70, 1972-75, 1978, 1982-2003	12-30-03	332
					3-16-04	341
					4-23-04	264
03464000 Cane River	Nolichucky River	Lat 36°00'52", long 82°19'40", Yancey County, Hydrologic Unit 06010108, 1.3 mi upstream from North Toe River, and 1.5 mi east of Sioux.	157	1933-71 [†] , 1974-78, 1980-2003	3-10-04	282
					5-20-04	166
03478819 Watauga River	South Fork Holston River	Lat 36°11'39", long 81°44'45", Watauga County, Hydrologic Unit 06010103, at bridge on State Highway 105,300 ft upstream from Laurel Fork, and 1.4 mi north of Shulls Mills.	26.6	1971-73, 1975, 1986-2003	10-30-03	32.9
					3-17-04	67.4
					4-22-04	48.1
					8-26-04	19.2
03500466 Cullasaja River	Little Tennessee River	Lat 35°04'02", long 83°13'31", Macon County, Hydrologic Unit 06010202, at Dam, and 2.0 mi northwest of Highlands.	14.4	1999-2003	2-11-04	75.5
					4-7-04	25.6
03502000 Little Tennessee River	Tennessee River	Lat 35°14'03", long 83°23'42", Macon County, Hydrologic Unit 06010202, 0.2 mi upstream from State Highway 28 at Iotla, and 0.2 mi upstream from Iotla Creek.	323	1929-45 [†] , 1972-79, 1982-2003	2-19-04	863
					3-23-04	602
					6-9-04	489
					8-16-04	512
03515633 Cheoah River	Little Tennessee River	Lat 35°20'04", long 83°48'21", Graham County, Hydrologic Unit 06010204, 0.1 mi upstream from Long Creek, and 0.9 mi north of Robbinsville.	55.3	1968-71, 1973-2003	2-9-04	207
					3-29-04	82.3
					6-28-04	45.9
					8-23-04	38.4

† Operated as a continuous-record gaging station.

The following water-quality data was collected in September 2004 at miscellaneous sites in the Asheville area in association with the remnants of Hurricane Frances. Water-quality miscellaneous samplings sites are particular locations where chemical-quality, biological or sediment data are collected once or more frequently, but not on a regular basis.

WATER-QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Sampling depth, feet (00003)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC (LAT 35 36 32N LONG 082 34 41W)							
SEP 2004							
09...	1420	31,900	3.60	6.2	6.5	27	19.1
03453500 FRENCH BROAD RIVER AT MARSHALL, NC (LAT 35 47 11N LONG 082 39 39W)							
SEP 2004							
09...	1625	28,200	4.30	8.7	6.8	31	19.6
03460795 PIGEON R BL POWER PLANT NR WATERVILLE, NC (LAT 35 47 01N LONG 083 06 43W)							
SEP 2004							
09...	1130	6,940	4.40	8.9	7.2	31	16.7
0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC (LAT 35 04 34N LONG 083 14 56W)							
SEP 2004							
08...	1025	2,260	2.50	8.7	6.2	14	16.8
03508050 TUCKASEGEE RIVER AT SR 1172 NR CULLOWHEE, NC (LAT 35 17 16N LONG 083 08 38W)							
SEP 2004							
08...	1540	5,120	2.50	8.4	6.8	14	19.3

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Conversion Factors

Multiply	By	To obtain
Length		
inch (in.)	2.54×10^1	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^0	kilometer (km)
Area		
acre	4.047×10^3	square meter (m ²)
	4.047×10^{-1}	square hectometer (hm ²)
	4.047×10^{-3}	square kilometer (km ²)
square mile (mi ²)	2.590×10^0	square kilometer (km ²)
Volume		
gallon (gal)	3.785×10^0	liter (L)
	3.785×10^{-3}	cubic meter (m ³)
	3.785×10^0	cubic decimeter (dm ³)
million gallons (Mgal)	3.785×10^3	cubic meter (m ³)
	3.785×10^{-3}	cubic hectometer (hm ³)
cubic foot (ft ³)	2.832×10^{-2}	cubic meter (m ³)
	2.832×10^1	cubic decimeter (dm ³)
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter (m ³)
	2.447×10^{-3}	cubic hectometer (hm ³)
acre-foot (acre-ft)	1.233×10^3	cubic meter (m ³)
	1.233×10^{-3}	cubic hectometer (hm ³)
	1.233×10^{-6}	cubic kilometer (km ³)
Flow		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m ³ /s)
	2.832×10^1	cubic decimeter per second (dm ³ /s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m ³ /s)
	6.309×10^{-2}	cubic decimeter per second (dm ³ /s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m ³ /s)
	4.381×10^1	cubic decimeter per second (dm ³ /s)
Mass		
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

