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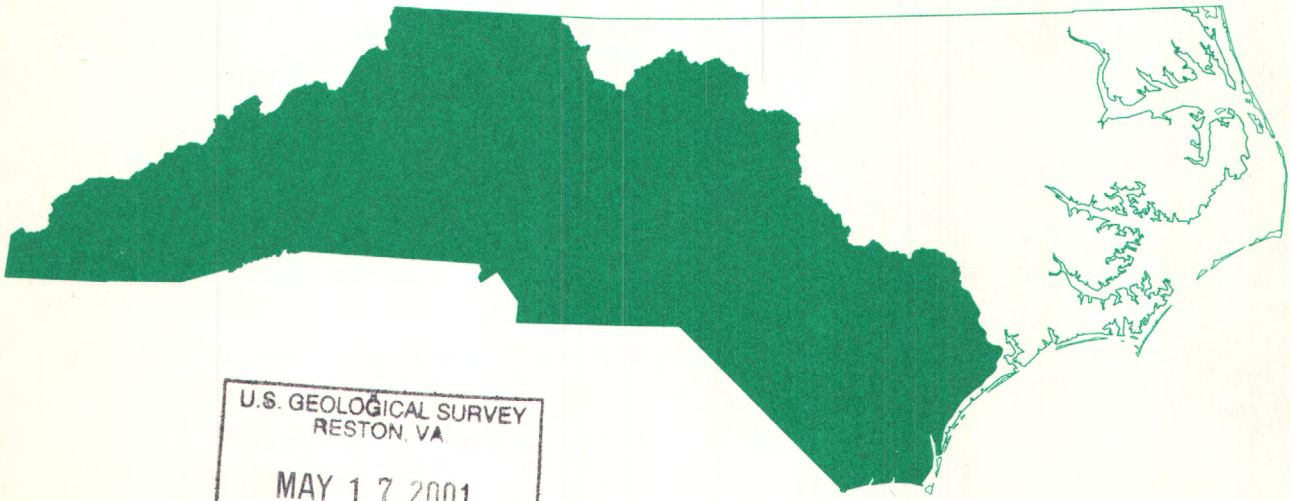
Water Resources Data North Carolina Water Year 2000

Volume 1B. Surface-Water Records

Water-data Report NC-00-1B



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

CALENDAR FOR WATER YEAR 2000

1999

OCTOBER

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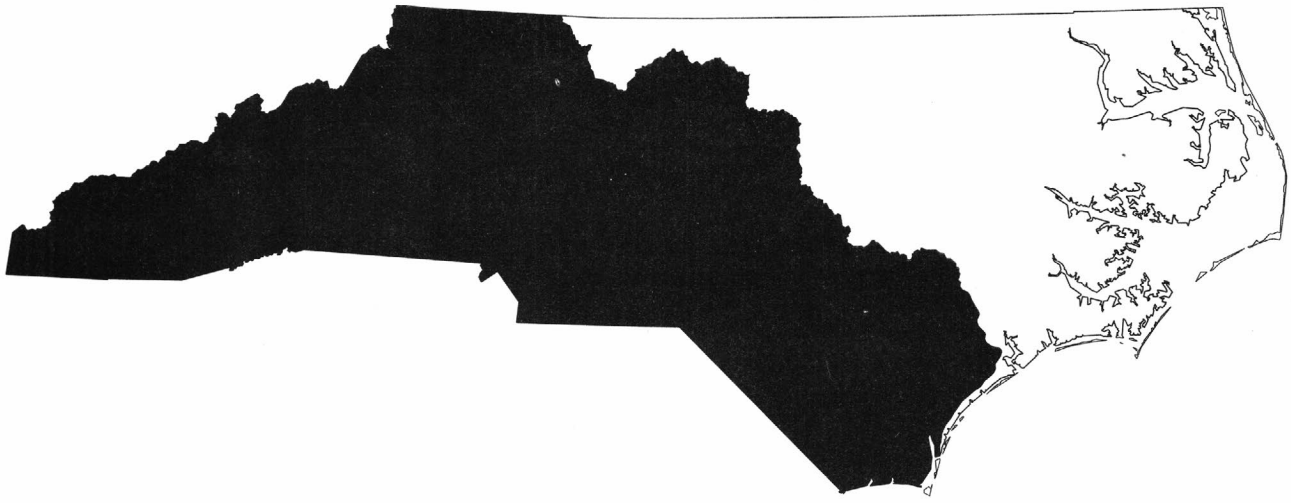
U.S. Geological Survey

Water Resources Data North Carolina Water Year 2000

Volume 1B. Surface-Water Records

By B.C. Ragland, R.G. Barker, and J.B. Robinson

Water-Data Report NC-00-1B



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

U. S. DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

GEOLOGICAL SURVEY

CHARLES G. GROAT, Director

For information on the water program in North Carolina write to:

District Chief
U.S. Geological Survey
3916 Sunset Ridge Road
Raleigh, NC 27607

2001

PREFACE

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

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

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Pamilee L. Breton edited much of the text, tables and graphs of this report. Pamilee L. Breton, Bobby C. Ragland, assembled the report.

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

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13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2000 water year for North Carolina consists of discharge records for 197 gaging stations; stage only records for 52 gaging stations; stage and contents for 62 lakes and reservoirs; water quality for 66 gaging stations and 73 miscellaneous sites; continuous daily tide stage at 4 sites and continuous precipitation at 88 sites. Additional water data were collected at 61 sites not involved in the systematic data-collection program, and are published as miscellaneous measurements.

Data contained in this volume includes discharge records for 136 gaging stations; stage and contents for 45 lakes and reservoirs; stage for 6 gaging stations; water quality for 19 gaging stations and 29 miscellaneous sites; continuous precipitation at 83 sites and miscellaneous measurements for 52 stations not involved in the systematic data-collection program.

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

14. SUBJECT TERMS
North Carolina, Hydrologic data, Surface water, Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water temperature, Sampling, Water level, Water analysis, Elevation, Precipitation

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

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

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CRN54 (p) 351741080475045 464
CRN55 (p) 350324080551845 465
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French Broad River:
Mills River near Mills River (d) 03446000 490-491
Swannanoa River:
North Fork Swannanoa River near Walkertown (d) 0344894205 492-493
Mills River:
Beetree Creek near Swannanoa (d) 03450000 494-495
Swannanoa River at Biltmore (d) 03451000 496-497
French Broad River at Asheville (d,p) 03451500 498-500
Ivy River near Marshall (d) 03453000 502-503
French Broad River at Marshall (d) 03453500 504-505
West Fork Pigeon River above Lake Logan near Hazelwood (d) 03455500 506-507
Lake Logan at Dam near Hazelwood (g,p) 03455773 508-510
West Fork Pigeon River near Retreat (d) 0345577330 512-513
West Fork Pigeon River at Bethel (d) 03456100 514-515
East Fork Pigeon River near Canton (d,p) 03456500 516-518
Pigeon River near Canton (d) 03456991 520-521
Pigeon River near Hepco (d) 03459500 522-523
Cataloochee Creek near Cataloochee (d,c) 03460000 524-527
Pigeon River below Power Plant near Waterville (d,t,o) 03460795 528-533
North Toe River (head of Nolichucky River):
South Toe River near Celo (d) 03463300 534-535
South Fork Holston River:
Watauga River near Sugar Grove (d) 03479000 536-537
Tennessee River:
Little Tennessee River near Prentiss (d) 03500000 538-539
Cartoogechaye Creek near Franklin (d) 03500240 540-541
Little Tennessee River at Needmore (d,p) 03503000 542-544
Nantahala River near Rainbow Springs (d) 03504000 546-547
Tuckasegee River:
Oconaluftee River at Birdtown (d) 03512000 548-549
Tuckasegee River at Bryson City (d,p) 03513000 550-552
Cheoah River near Bearpen Gap near Topoco (d,t) 0351706800 554-557
Cheoah River near Topoco (g) 0351751500 558-559
Hiwassee River above Murphy (d) 03548500 560-561
Valley River at Tomotla (d) 03550000 562-563
Lakes and reservoirs in Ohio River basin 564-568

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

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

Station number	Station name	Drainage area (mi^2)	Period of record
	Albemarle Sound Basin		
02043200	West Neck Creek at Indian River Road at Pungo, Va	Indeterminate	1998-1999
0204343500	Intracoastal Waterway at Coinjock	Indeterminate	1998-1999
	Chowan River Basin		
02053400	Ahoskie Creek near Rich Square, NC	3.70	1964-73
02053450	Ahoskie Creek at Mintons Store, NC	24.0	1964-73
02053510	Ahoskie Creek tributary at Poortown, NC	2.60	1963-73
	Roanoke River Basin		
02068000	Dan River near Asbury, NC	71.4	1924-26
02069000	Dan River at Pine Hall, NC	501	1924-26
			1986-91
02071500	Dan River at Leaksville, NC	1,150	1929-49
02074218	Dan River near Mayfield, NC	1,778	1976-84
02075160	Moon Creek near Yanceyville, NC	29.90	1961-74
			1988-89
02077230	South Hyco Creek near Hesters Store, NC	29.9	1964-67
02077240	Double Creek near Roseville, NC	7.47	1964-75
			1977-82
02077250	South Hyco Creek near Roseville, NC	56.5	1966-80
02077300	Hyco River at McGehees Mill, NC	191	1964-73
02077660	Mayo Creek near Woodsdale, NC	52.7	1975-77
	Pamlico River Basin		
02081800	Cedar Creek near Louisburg, NC	47.8	1956-75
02082000	Tar River near Nashville, NC	701	1928-71
02082500	Sapony Creek near Nashville, NC	64.8	1950-70
0208273070	Devils Cradle Creek at NC 39 near Kearney, NC	2.89	1984-85
02082731	Devils Cradle Creek nr Alert, NC	13.4	1993-97
02083833	Pete Mitchell Swamp at Sr1409 nr Penny Hill, NC	11.0	1993-97
02084070	Green Mill Run at Arlington Boulevard at Greenville, NC	9.10	1980-85
02084164	Juniper Branch near Simpson, NC	7.5	1975-86
0208423100	Flat Swamp at SR 1157 near Robersonville, NC	21.3	1986-88
02084317	Black Swamp near Batts Crossroads, NC	1.02	1982
02084500	Herring Run near Washington, NC	9.59	1950-80
02084556	North Lake Canal above Pungo Lake near Wenona, NC	.29	1976-80
02084558	Albemarle Canal near Swindell, NC	68.0	1977-81
0208463120	Outflow Ditch from Jennett Sedge at Buxton, NC	Indeterminate	1994-95
	Neuse River Basin		
02084903	Sevenmile Creek tributary at SR 1120 near Buckhorn, NC	1.34	1981-82
02084904	Sevenmile Creek tributary at I-85 near Miles, NC	.004	1981-82
02084905	Sevenmile Creek tributary at SR 1144 near Miles, NC	1.57	1981-82
02084908	Sevenmile Creek tributary at I-85 near Efland, NC	.29	1981-82
02085220	Little River near Orange Factory, NC	80.4	1962-87
02086000	Dial Creek near Bahama, NC	4.76	1925-71
			1989-91
0208650112	Flat River tributary near Willardsville, NC	1.14	1988-90
02086624	Knap of Reeds Creek near Butner, NC	43.0	1982-95

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Neuse River Basin--Continued		
02086849	Ellerbee Creek nr Gorman, NC	21.9	1982-89
			1991-95
02087000	Neuse River near Northside, NC	535	1927-80
0208700780	Little Lick Creek above Secondary Road 1814 near Oak Grove, NC	10.1	1982-95
0208705200	Smith Creek at Grissom, NC	6.2	1984-85
0208721055	Perry Creek at SR 2012 near Millbrook, NC	2.43	1986-89
0208732810	Marsh Creek at SR 2030 at Millbrook, NC	1.44	1986-89
02087570	Neuse River at Smithfield, NC	1,206	1959-90
02088315	Beaverdam Creek near Grantham, NC	5.01	1978-82
02088470	Little River near Kenly, NC	191	1964-89
02088682	Big Ditch at Retha Street at Goldsboro, NC	2.17	1980-84
02089216	Daileys Creek near Liddell, NC	3.80	1978-81
02089222	Bear Creek near Parkstown, NC	4.27	1978-82
02090500	Contentnea Creek near Wilson, NC	236	1930-54
02090512	Hominy Swamp at Phillips Street at Wilson, NC	8.20	1978-85
0209096970	Moccasin Run near Patetown, NC	1.89	1988-98
02090625	Turner Swamp near Eureka, NC	2.1	1968-87
02091700	Little Contentnea Creek near Farmville, NC	93.3	1956-87
02091960	Creeping Swamp near Calico, NC	9.80	1971-77
02091970	Creeping Swamp near Vanceboro, NC	27.0	1971-85
02092000	Swift Creek near Vanceboro, NC	182	1950-89
02092020	Palmetto Swamp near Vanceboro, NC	24.0	1971-76
0209257120	W. P. Brice Creek below SR 1101 near Riverdale, NC	11.2	1986-91
	Hewletts Creek Basi		
02093229	Hewletts Creek at SR 102 near Wilmington, NC	1.98	1977-90
	Cape Fear River Basin		
0209330990	Brooks Lake tributary near Browns Summit, NC	.06	1985-90
0209331325	Candy Creek at SR 2700 near Monticello, NC	1.10	1985-90
02093500	Haw River near Benaja, NC	168	1928-71
02094000	Horsepen Creek at Battle Ground, NC	15.9	1925-31
			1934-59
02095000	South Buffalo Creek near Greensboro, NC	33.6	1928-58
0209509100	South Buffalo Creek at SR 2821 at McLeansville, NC	43.5	1986-88
02095500	North Buffalo Creek near Greensboro, NC	37.1	1929-90
0209555450	Buffalo Creek at SR 2719 near Osceola, NC	97.4	1986-87
0209560800	Reedy Fork Creek at NC 61 near Osceola, NC	243	1986-88
02096000	Stony Creek near Burlington, NC	44.2	1952-59
02096700	Big Alamance Creek near Elon College, NC	116	1957-80
02096842	Cane Creek 0.1mile above SR 1126 near Buckhorn, NC	.64	1979-81
02096850	Cane Creek near Teer, NC	33.7	1959-73
02097000	Haw River near Pittsboro, NC	1,310	1928-73
02097243	Third Fork Creek at Durham, NC	1.68	1968-73
02097500	Morgan Creek near Chapel Hill, NC	30.1	1923-32
0209782150	New Hope River tributary at SR 1716 near Farrington, NC	2.05	1986-88
02098000	New Hope River near Pittsboro, NC	285	1949-73
02098500	West Fork Deep River near High Point, NC	32.1	1923-26
			1928-58
02100000	Muddy Creek near Archdale, NC	16.7	1934-41
02101000	Bear Creek at Robbins, NC	134	1939-71
0210106600	Deep River nr Glendon, NC	859	1993-96
0210108450	Suck Creek tributary near Zion Grove, NC	.67	1986-88

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Cape Fear River Basin--Continued		
02103000	Little River at Manchester, NC	348	1938-50
02103500	Little River at Linden, NC	459	1928-71
02104000	Cape Fear River at Fayetteville, NC	4,395	1889-1903
			1928-40
02104387	Buckhead Creek near Owens, NC	2.62	1976-80
02104500	Rockfish Creek near Hope Mills, NC	292	1929-31
			1939-54
02105524	Ellis Creek tributary at SR 1325 near White Oak, NC	1.81	1979-81
02106000	Little Coharie Creek near Roseboro, NC	92.8	1950-92
02106681	Black River near Dunn, NC	48.3	1976-77
02107000	South River near Parkersburg, NC	379	1951-86
02107500	Colly Creek near Kelly, NC	103	1950-71
02107600	Northeast Cape Fear River near Seven Springs, NC	47.5	1958-75
0210782005	Nahunga Creek at SR 1301 near Warsaw, NC	8.30	1983-90
0210783240	Herrings Marsh Run near Summerlins Crossroads, NC	2.25	1991-99
0210783273	Herrings Marsh Run Tributary at Red Hill, NC	1.14	1991-97
0210783276	Herrings Marsh Run below SR 1306 at Red Hill, NC	9.11	1991-99
0210789100	Grove Creek at Kenansville, NC	22.6	1983-90
0210797940	Limestone Creek at NC 24 near Hadley, NC	1.61	1986-88
02108500	Rockfish Creek near Wallace, NC	69.3	1955-81
02108548	Little Rockfish Creek at Wallace, NC	7.8	1976-92
	Pee Dee River Basin		
02112500	Fisher River near Dobson, NC	109	1920-32
02113500	Yadkin River at Siloam, NC	1,226	1976-87
02115500	Forbush Creek near Yadkinville, NC	22.1	1940-71
02115750	Muddy Creek near Lewisville, NC	82.8	1964-70
02115800	Silas Creek near Clemmons, NC	11.8	1964-70
02115842	Tar Branch tributary at First Street at Winston-Salem, NC	.04	1979-82
02115850	Salem Creek at Winston-Salem, NC	51.3	1964-70
02115854	Salem Creek tributary at Hawthorne Road, Winston-Salem, NC	.50	1979-82
02115856	Salem Creek near Atwood, NC	65.6	1971-82
02115860	Muddy Creek near Muddy Creek, NC	186	1964-79
			1988-91
02115900	South Fork Muddy Creek near Clemmons, NC	42.9	1964-79
			1988-91
02117030	Humpy Creek near Fork, NC	1.05	1968-83
02117500	Rocky Creek at Turnersburg, NC	101	1940-71
02119000	South Yadkin River at Cooleemee, NC	569	1928-65
02119400	Third Creek near Stony Point, NC	4.84	1956-69
02120500	Third Creek at Cleveland, NC	87.4	1940-71
02121000	Yadkin River near Salisbury, NC	3,450	1895-1927
02121180	North Potts Creek at Linwood, NC	9.62	1980-90
02121493	Leonard Creek near Bethesda, NC	5.16	1978-81
02122500	Yadkin River at High Rock, NC	4,000	1919-27
02123000	Uwharrie River near Trinity, NC	11.3	1934-41
02123500	Uwharrie River near Eldorado, NC	342	1938-71
02124471	Dutch Buffalo Creek at NC 49 near Mount Pleasant, NC	45.1	1985-87
02125500	Richardson Creek near Marshville, NC	170	1940-44
02125557	Gourdvine Creek at SR 1715 near Olive Branch, NC	8.75	1978-82
02125696	Lane Creek at SR 2115 near Trinity, NC	3.98	1969-79
02125699	Wicker Branch at SR 1940 near Trinity, NC	5.83	1978-82
02125816	Lane's Creek near Marshville, NC	87.8	1985-87
02126500	Little Brown Creek near Polkton, NC	13.5	1935-41
02127000	Brown Creek near Polkton, NC	110	1937-71
02127500	Pee Dee River near Ansonville, NC	6,330	1938-42
02129500	North Fork Jones Creek near Wadesboro, NC	9.43	1935-41
0213228795	Jordan Creek near Silver Hill, NC	0.36	1983-93

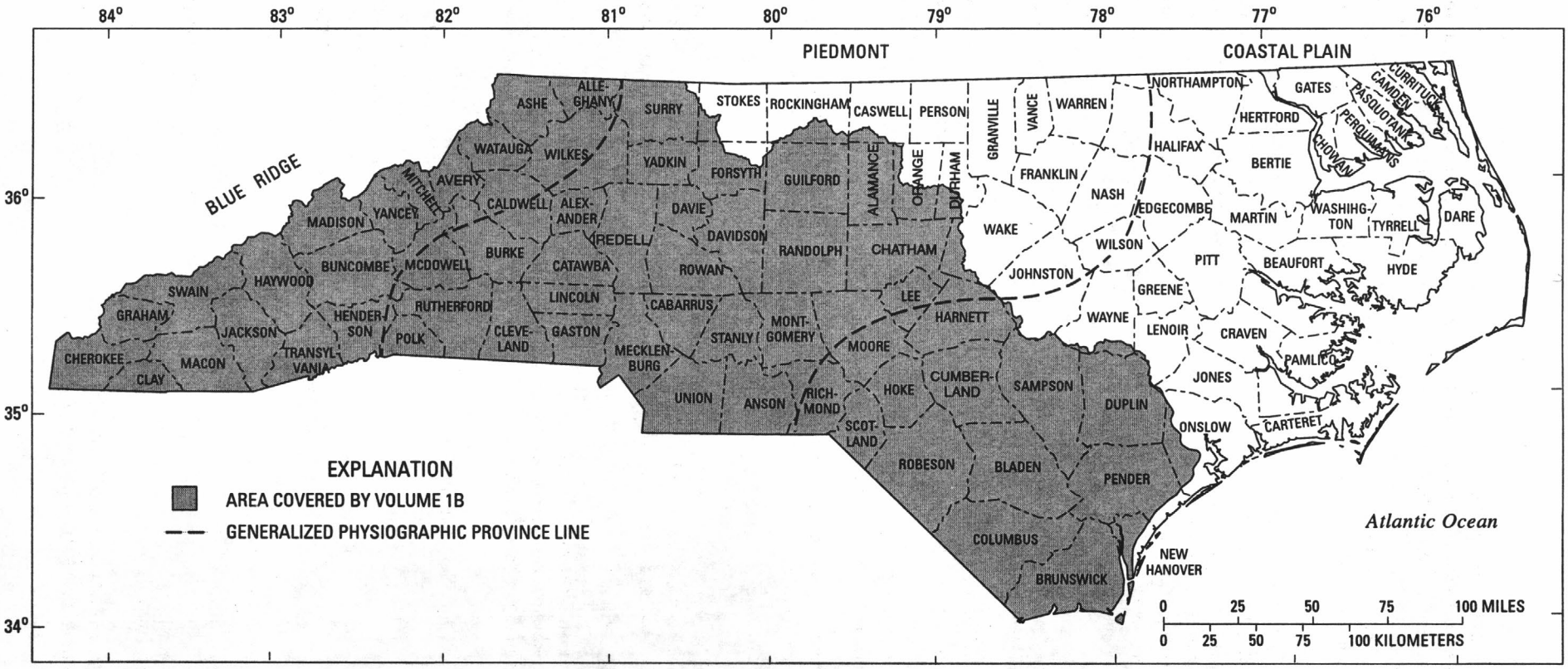
DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Santee River Basin		
02137000	Mill Creek at Old Fort, NC	20.7	1960-75
02138000	Catawba River near Marion, NC	172	1941-81
0213875850	High Shoals Creek near Dysartsville, NC	2.38	1986-88
02139200	Bailey Fork near Morganton, NC	7.86	1966-70
02139650	East Prong near Morganton, NC	8.94	1966-74
0214042720	North Harper Creek near Kawana, NC	1.25	1986-88
02141150	Lower Creek at Mulberry Street at Lenoir, NC	31.8	1966-78
02141245	Lower Creek at SR1501 near Morganton, NC	89.5	1993-94
0214183365	Upper Little River at SR1740 near Petra Mills, NC	33.9	1993-94
0214192500	Middle Little River at Moretz Dam near Bethlehem, NC	46.1	1993-94
02142500	Catawba River at Catawba, NC	1,535	1896-99
			1935-62
02142600	Mountain Creek near Terrell, NC	42.4	1957-62
0214620760	Irwin Creek at Starita Road at Charlotte, NC	4.40	1989-94
02146450	Briar Creek at Sharon Road, Charlotte, NC	18.5	1962-73
02146500	Little Sugar Creek near Charlotte, NC	41.0	1924-78
02146579	Irvin's Creek at Lebanon Road near Mint Hill, NC	5.27	1983-90
0214677974	Steele Creek above Secondary Road 1344 near Shopton, NC	3.57	1990-98
0214678230	Walker Branch at SR1123 near Pine Harbor, NC	4.52	1991-94
02148500	Broad River near Chimney Rock, NC	97.0	1927-58
02149702	Green River near Saluda, NC	104	1972-75
02150000	Green River near Mill Spring, NC	174	1940-54
02151000	Second Broad River at Cliffside, NC	220	1925-97
02152000	Sandy Run Creek near Boiling Springs, NC	67.0	1925-28
02152500	First Broad River near Lawndale, NC	200	1940-71
02152610	Sugar Branch near Boiling Springs, NC	1.42	1968-87
	Kanawha River Basin		
03161500	South Fork New River near Crumpler, NC	325	1908-16
03162500	North Fork New River at Crumpler, NC	277	1908-16
			1928-58
	Tennessee River Basin		
03439500	French Broad at Calvert, NC	103	1924-55
03440500	Davidson River near Davidson River, NC	31.0	1904-09
03441440	Little River above High Falls near Cedar Mountain, NC	26.8	1963-90
03441500	Little River near Penrose, NC	41.4	1942-55
03442000	Crab Creek near Penrose, NC	10.9	1942-55
03444000	Boylston Creek near Horseshoe, NC	14.8	1942-55
03444500	South Fork Mills River at the Pink Beds, NC	9.99	1926-49
			1965-73
03445000	South Fork Mills River near Sitton, NC	40.0	1904-09
			1925-26
03445500	North Fork Mills River at Pinkbed, NC	23.1	1904-09
03446500	Clear Creek near Hendersonville, NC	42.2	1945-55
03447000	Mud Creek at Naples, NC	109	1938-55
03447500	Cane Creek at Fletcher, NC	63.1	1942-58
03448000	French Broad River at Bent Creek, NC	676	1933-86
03448500	Hominy Creek at Candler, NC	79.8	1942-77
03448960	North Fork Swannanoa River below Burnett Reservoir near Black Mountain, NC	22.1	1976-77
03449000	North Fork Swannanoa River near Black Mountain, NC	23.8	1926-58
03449500	Swannanoa River at Swannanoa, NC	58.8	1907-09
			1926-31
0345092550	Ross Creek at Beaucatcher Road at Asheville, NC	2.46	1986-89
0345112600	Nasty Branch at Asheville, NC	1.19	1986-89

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Tennessee River Basin--Continued		
03451510	Reed Creek above Barnard Avenue at Asheville, NC	2.13	1986-89
03452000	Sandymush Creek near Alexander, NC	79.5	1942-55
03452001	Sandymush Creek 1.1 mile above mouth near Alexander, NC	79.5	1975-77
03454000	Big Laurel Creek near Stackhouse, NC	126	1934-71
03454500	French Broad River at Hot Springs, NC	1,567	1934-49
03456000	West Fork Pigeon River below Lake Logan near Waynesville, NC	55.3	1954-80
03457000	Pigeon River at Canton, NC	133	1907-09
			1928-83
03457500	Allen Creek near Hazelwood, NC	14.4	1949-72
03458500	Pigeon River near Crabtree, NC	243	1920-29
03459000	Jonathan Creek near Cove Creek, NC	65.3	1930-72
03460500	Pigeon River near Mount Sterling, NC	460	1924-30
03462000	North Toe River at Altapass, NC	104	1938-57
03462500	North Toe River above Spruce Pine, NC	111	1934-38
03463500	South Toe River at Newdale, NC	60.8	1934-52
03464000	Cane River near Sioux, NC	157	1934-71
03464500	Nolichucky River at Poplar, NC	608	1925-55
03480500	Elk River near Banner Elk, NC	17.8	1934-40
03481000	Elk River near Elk Park, NC	42.0	1934-55
03500500	Cullasaja River at Highlands, NC	14.9	1931-71
03501000	Cullasaja River at Cullasaja, NC	86.5	1907-09
			1921-71
03501500	Little Tennessee River at Franklin, NC	295	1909-10
			1921-25
03502000	Little Tennessee River at Iotla, NC	323	1929-45
03502500	Little Tennessee River at Etna, NC	374	1926-29
03503500	Little Tennessee River at Almond, NC	451	1912-17
03505500	Nantahala River at Nantahala, NC	144	1942-81
03506500	Nantahala River at Almond, NC	174	1912-17
			1920-43
03507000	Little Tennessee River at Judson, NC	664	1912-44
03508000	Tuckasegee River at Tuckasegee, NC	143	1934-76
03508136	Caney Fork near Cowarts, NC	32.0	1975-76
03508910	Scott Creek at Willets-Ochre Hill, NC	22.4	1993-95
03509000	Scott Creek above Sylva, NC	51.0	1941-75
			1993-95
03509500	Scott Creek at Sylva, NC	55.0	1928-41
03510500	Tuckasegee River at Dillsboro, NC	347	1933-81
03511000	Oconaluftee River at Cherokee, NC	131	1921-49
03513500	Noland Creek near Bryson City, NC	13.8	1935-71
03514000	Hazel Creek at Proctor, NC	44.4	1942-52
03515000	Little Tennessee River at Fontana Dam, NC	1,571	1938-55
03516000	Snowbird Creek near Robbinsville, NC	42.0	1942-52
03517000	Cheoah River at Johnson, NC	177	1912-18
			1920-26
03517500	Cheoah River at Tapoco, NC	215	1924-27
03546000	Shooting Creek near Hayesville, NC	37.6	1922-24
			1942-45
			1946-55
03547000	Hiwassee River below Chatuge Dam near Hayesville, NC	190	1942-74
03548000	Hiwassee River below Hayesville, NC	252	1934-45
03554000	Nottely River near Ranger, NC	272	1901-05
			1914-17
			1919-29
			1932-45
03555000	Hiwassee River at Hiwassee Dam, NC	968	1934-43

Old USGS gaging station at Eno River at Hillsborough.



COUNTIES AND PHYSIOGRAPHIC PROVINCES OF NORTH CAROLINA

INTRODUCTION

Water-resources data for the 2000 water year for North Carolina consist of records of stage, discharge, water-quality for streams; stage and contents for lakes and reservoirs; precipitation; and ground water levels and water-quality of ground-water. This volume contains discharge records for 136 gaging stations; stage and contents for 45 lakes and reservoirs; stage for 6 gaging stations; water quality for 19 gaging stations and 29 miscellaneous sites; and continuous precipitation at 83 sites. Additional water data were collected at 52 sites not involved in the systematic data-collection program, and are published as miscellaneous measurements in this report. The collection of water-resources data in North Carolina is a part of the National Water-Data System operated by the U.S. Geological Survey in cooperation with State, municipal, and Federal agencies.

Stream-discharge records, and contents and stage for lakes or reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were published annually; beginning in 1961, these water-supply papers were published every 5 years through 1970. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Water-supply papers can be found in the libraries of principal cities and universities throughout the United States or can be purchased from the U.S. Geological Survey, Earth Science Information Center, Open-File Reports Section, Denver Federal Center, Box 25286, Mail Stop 517, Denver, Colorado 80225.

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

Publication of streamflow and water-quality data, beginning with the 1971 water year, and ground-water data, beginning with the 1975 water year currently is limited to reports on a State-by-State basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report NC-00-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

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

COOPERATION

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

North Carolina Cooperative Extension Service
North Carolina Department of Environment and Natural Resources
North Carolina Department of Transportation
City of Asheville
City of Brevard
City of Charlotte
City of Danville, Virginia
City of Durham
City of Morganton
City of Greensboro
City of Raleigh
City of Rocky Mount
Mecklenburg County
Orange County
Town of Bethel
Middle Cape Fear River Basin Association
Triangle Area Water Supply Monitoring Steering Committee
Winston-Salem/Forsyth County Utility Commission
Pender County Emergency Management

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

Corps of Engineers, U.S. Army
Tennessee Valley Authority
U.S. Environmental Protection Agency
National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Carolina Power and Light Co.; Duke Power Co.; Yadkin, Inc.;
Virginia Power; Blue Ridge Paper Products, Inc.

SUMMARY OF WATER-RESOURCES CONDITIONS

Precipitation

Precipitation amounts for the first quarter, October through December, of the 2000 water year varied from 2.10 inches below average in the western (Asheville) and 4.18 inches below average in the central (Greensboro) parts of the State, respectively, to 2.66 inches above average in the eastern (Elizabeth City) part of the State. Average precipitation amounts represent the computed mean based on data collected from 1961 through 1990, the 30-year base period used by the National Weather Service. Rainfall data collected at six key National Weather Service stations (figs. 1, 2) indicate that rainfall was above average in the northern Coastal Plain and below average in the southern Coastal Plain, Piedmont, and Blue Ridge Provinces of North Carolina.

The second quarter of the 2000 water year, January through March, resulted in drier than average conditions in the Coastal Plain Province, and below-average conditions continued throughout the rest of the State. Despite a record-setting snowfall in excess of 20 inches in January, Raleigh reported below-average precipitation of 0.95 inch for the quarter. The greatest precipitation deficiency was reported in Elizabeth City at 4.34 inches below average. Asheville, Charlotte, and Wilmington all reported precipitation deficiencies of more than 2.50 inches below normal for the quarter.

The third quarter, April through June, resulted in above-average amounts of rainfall across the State except in Asheville and Raleigh, where less-than-average rainfall was reported in May and June, resulting in overall deficits for the quarter at these locations. The greatest rainfall amount was observed in the northern Coastal Plain Province (Elizabeth City), where an above-average rainfall amount of 22.63 inches was recorded, more than 11 inches above average for the quarter. The Western Piedmont and the Southern Coastal Plain recovered a bit from dry conditions. Above-average rainfall totals were reported at Charlotte (0.24 inch above average), Greensboro (0.17 inch above average), and Wilmington (1.32 inches above average) for the third quarter.

During the fourth quarter, July through September, the Blue Ridge Province continued to experience drought conditions with Asheville reporting rainfall at 2.52 inches below average. Charlotte and Elizabeth City also reported below-average conditions for 2 of the 3 months. The Central Piedmont and Southern Coastal Plain Provinces reported above-average rainfall at Greensboro (4.26 inches above average), Raleigh (5.43 inches above average), and Wilmington (3.87 inches above average).

In summary, annual total precipitation was below-average across the State except in the Coastal Plain Province. The National Weather Service reported below-average rainfall amounts in Asheville for every month except April, creating drought conditions in the Blue Ridge Province. Most of the Piedmont and Coastal Plain Provinces recovered somewhat from below-average rainfall amounts during the third or fourth quarter of the water year. The National Weather Service reported the following annual rainfall amounts for the 2000 water year at these selected stations: Asheville, 37.57 inches (10.02 inches below average); Charlotte, 38.90 inches (4.19 inches below average); Greensboro, 41.18 inches (1.44 inches below average); Raleigh, 41.01 inches (0.42 inch below average); Wilmington, 55.96 inches (1.69 inches above average); and Elizabeth City, 56.90 inches (8.42 inches above average) .

Surface Water

Streamflow conditions in North Carolina are influenced greatly by precipitation. Excess rainfall can produce rapid responses in streamflow. Streamflow also declines following periods of deficient rainfall. The rate and magnitude of decline depend on basin size, the season, evapotranspiration, and the amount of ground water in storage at the onset of the dry period. The effects on streamflow of variable rainfall in North Carolina during the 2000 water year are illustrated in figures 3-8. Monthly conditions are depicted in maps (figs. 3, 4) that show the regions of above-normal (excessive), normal, and below-normal (deficient) streamflow.

Data for the 30-year base period, 1961-90, from 35 index gaging stations across the State were used to compute monthly flow statistics (figs. 3, 4). These stations are located on streams that are free of significant regulations or diversions and range in size from about 30 to 1,400 square miles. The descriptors, "above normal," "normal," and "below normal," refer to flow in the upper quartile, the middle two quartiles, and the lower quartile, respectively. Average streamflow is defined as the mean streamflow for the period of interest.

In October, below-average precipitation conditions occurred in parts of the western and central areas of the State, and above-average conditions occurred in the coastal portion of the State. Nearly half of the 35 index sites had below-normal flows and half of the index sites had above-normal flows (fig. 3A). Seven index sites had monthly mean discharges that were third highest or higher for the periods of record. The site rankings for the periods of record are as follows: third highest was Little River near Princeton (71 years of record); second highest were Potecasi Creek near Union (43 years of record), Swift Creek at Hilliardston (38 years of record), and Trent River near Trenton (50 years of record); and the highest were Northeast Cape Fear River near Chinquapin (61 years of record), Little River near Star (47 years of record), and Lumber River at Boardman (71 years of record).

In November, below-average precipitation totals were recorded across the State, except in Wilmington where the precipitation total was almost 0.50 inch above normal. The below-average precipitation resulted in 11 of the previously above-normal monthly mean discharge index sites falling into the normal-flow range for streams throughout the eastern and central parts of the State. One index site, Little River near

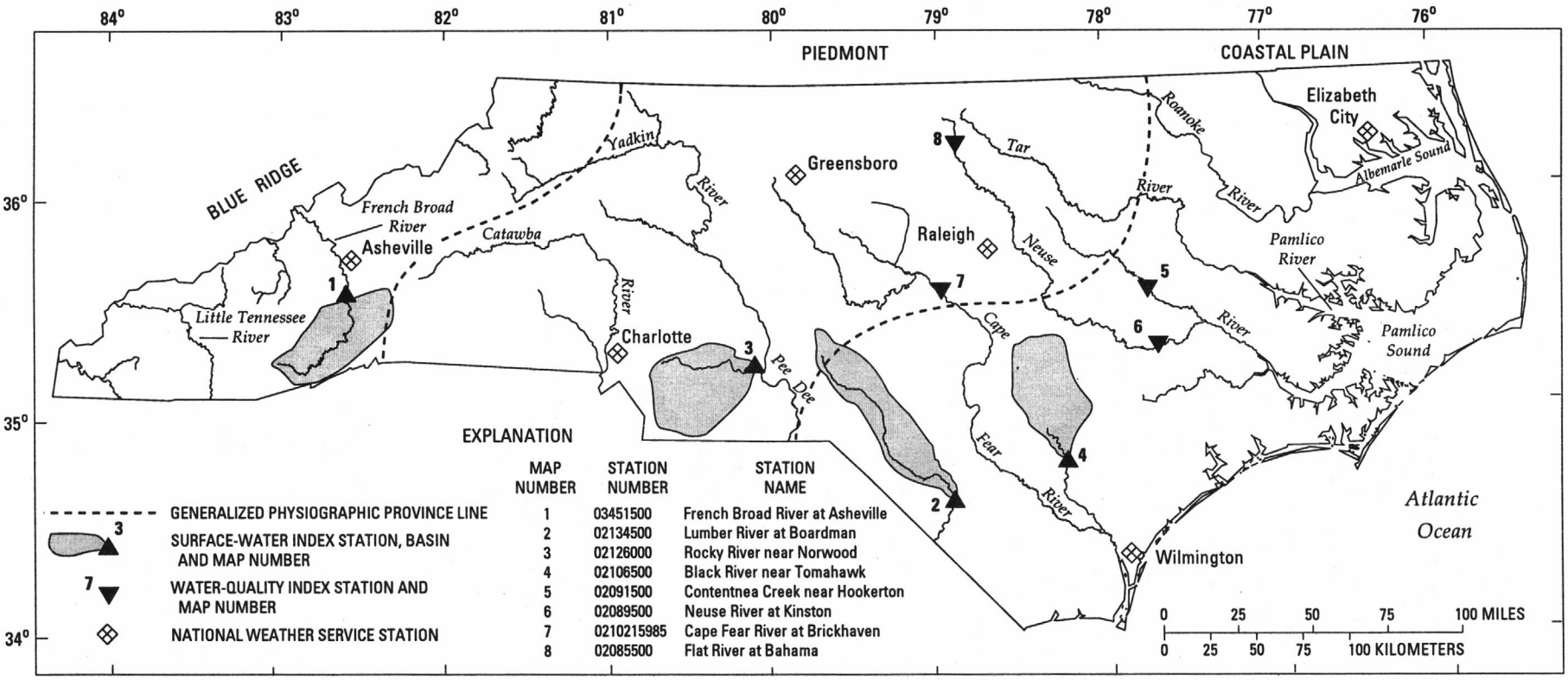


Figure 1.--Location of selected long-term index stations for collecting precipitation, discharge, and water-quality data in North Carolina.

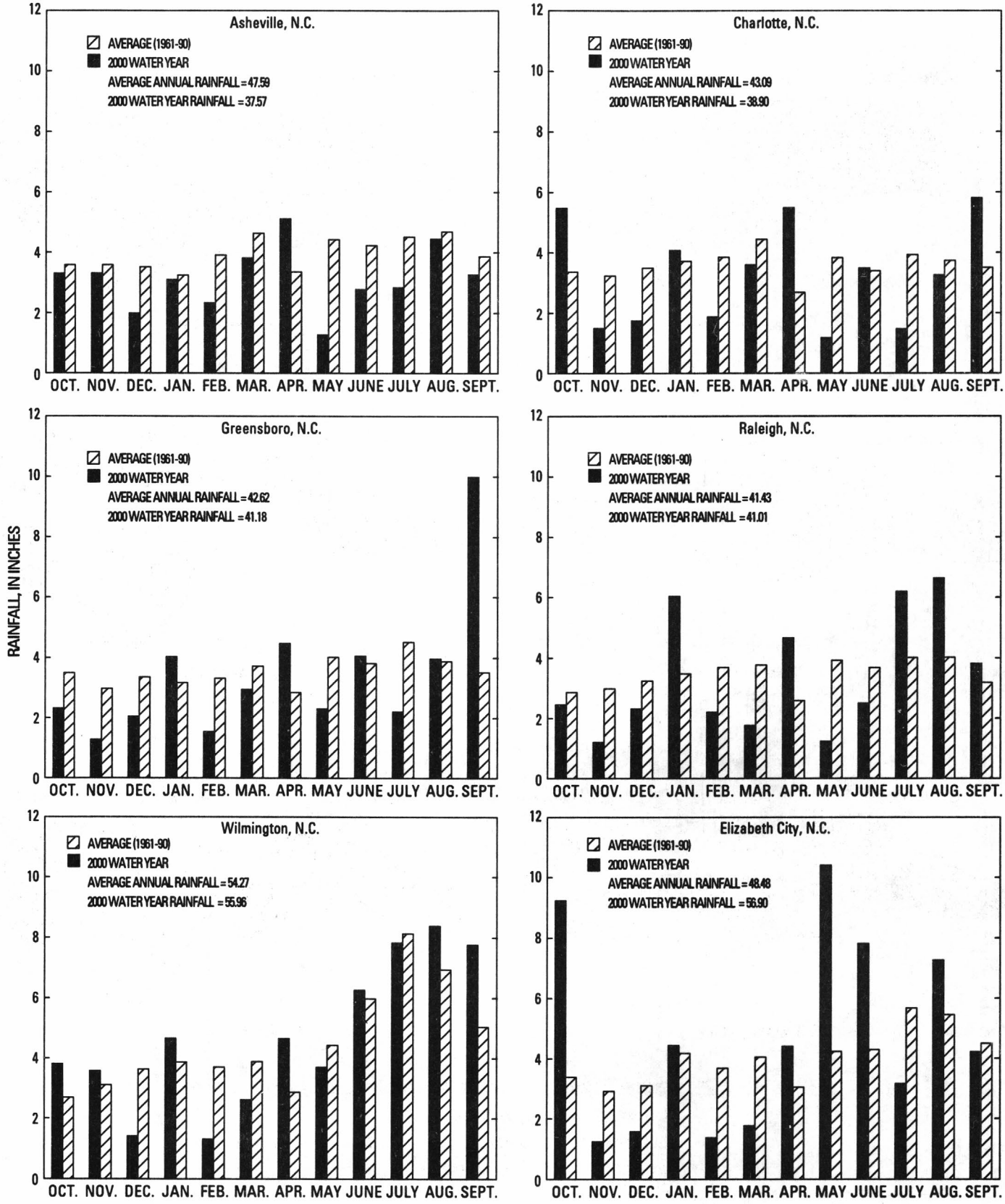


Figure 2.--Monthly rainfall and average monthly rainfall for the period 1961-90 at index stations for the 2000 water year (data from National Oceanic and Atmospheric Administration reports).

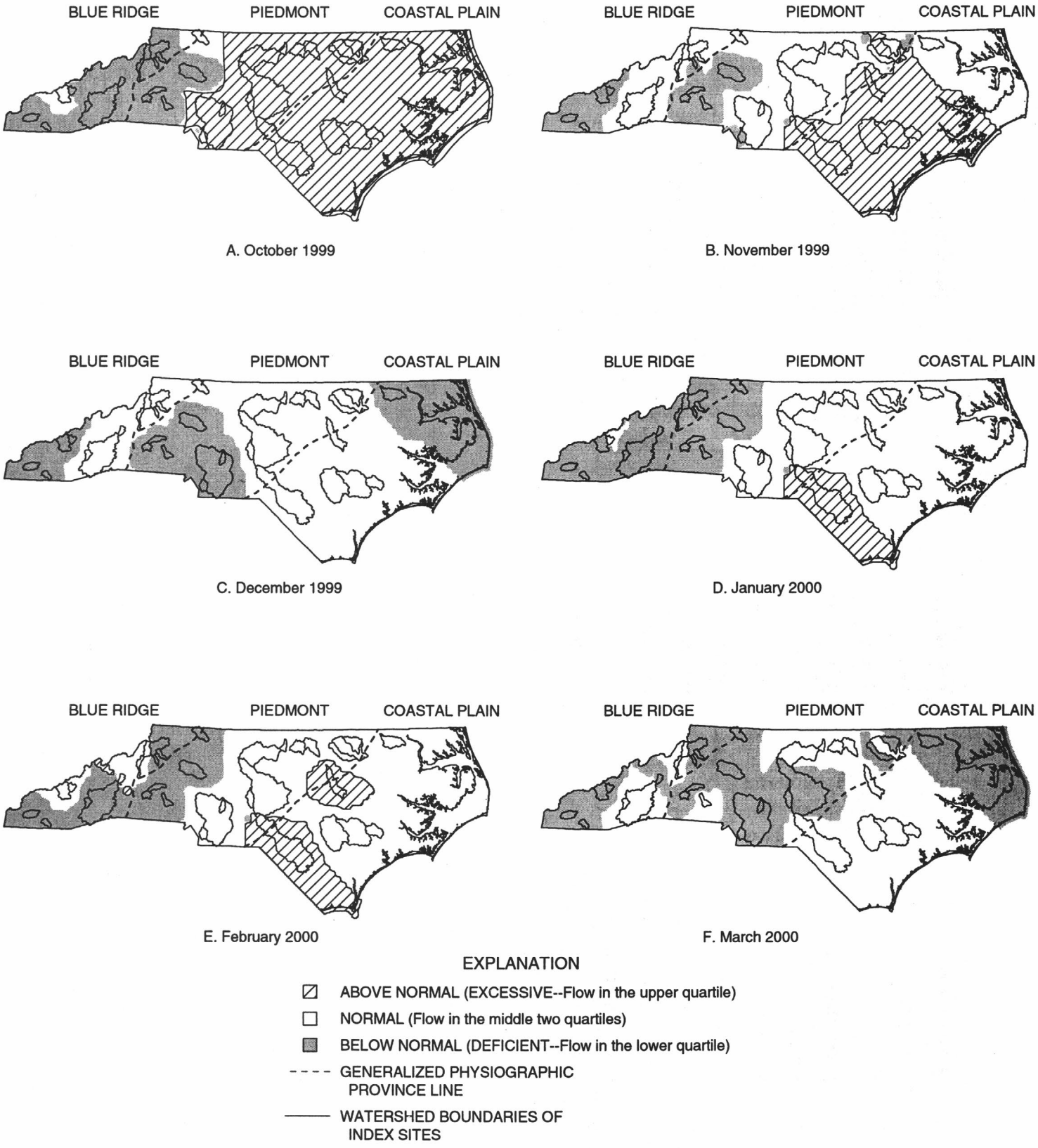


Figure 3.--Monthly streamflow in North Carolina during October - March, 2000 water year.

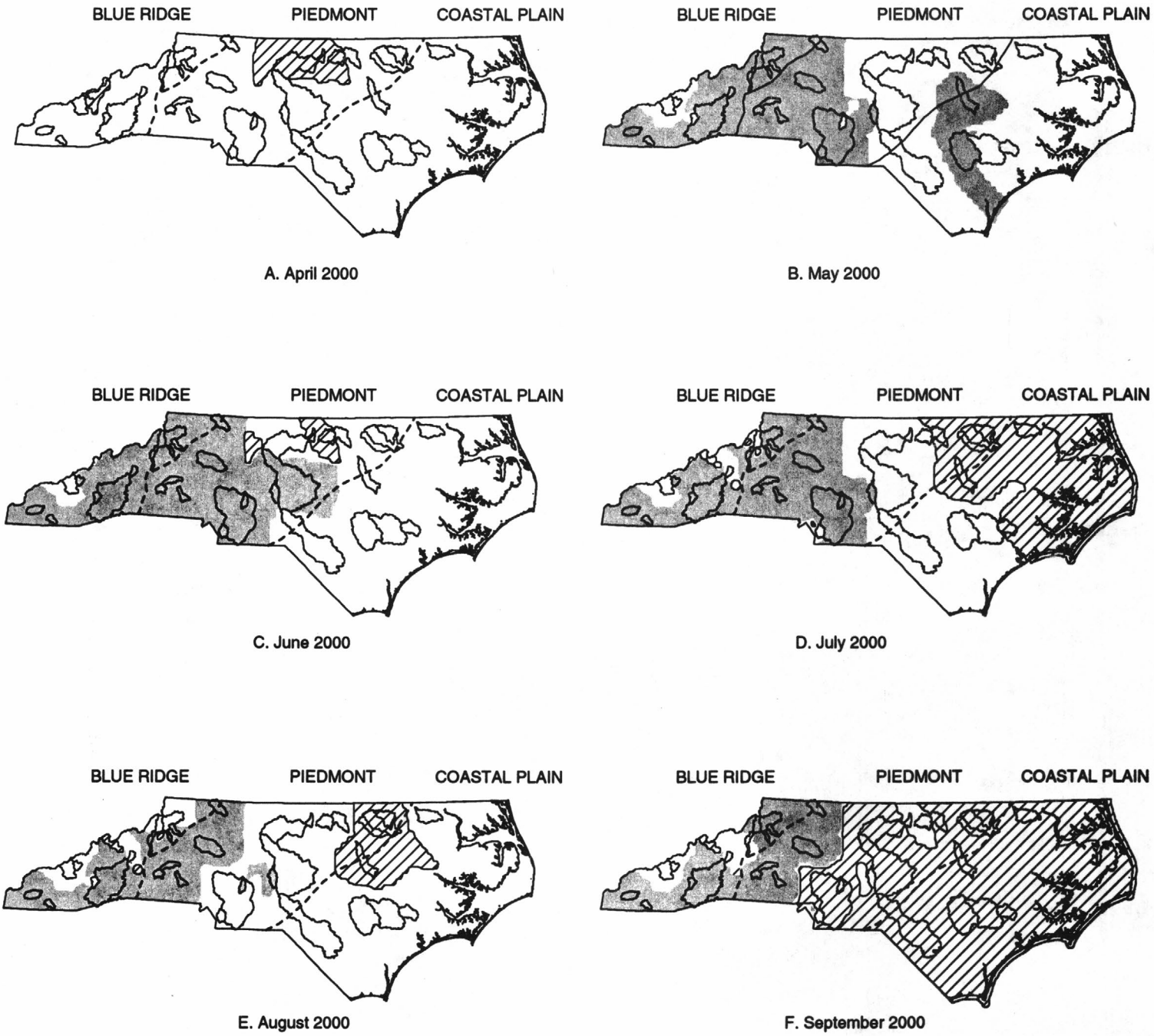


Figure 4.--Monthly streamflow in North Carolina during April - September, 2000 water year.

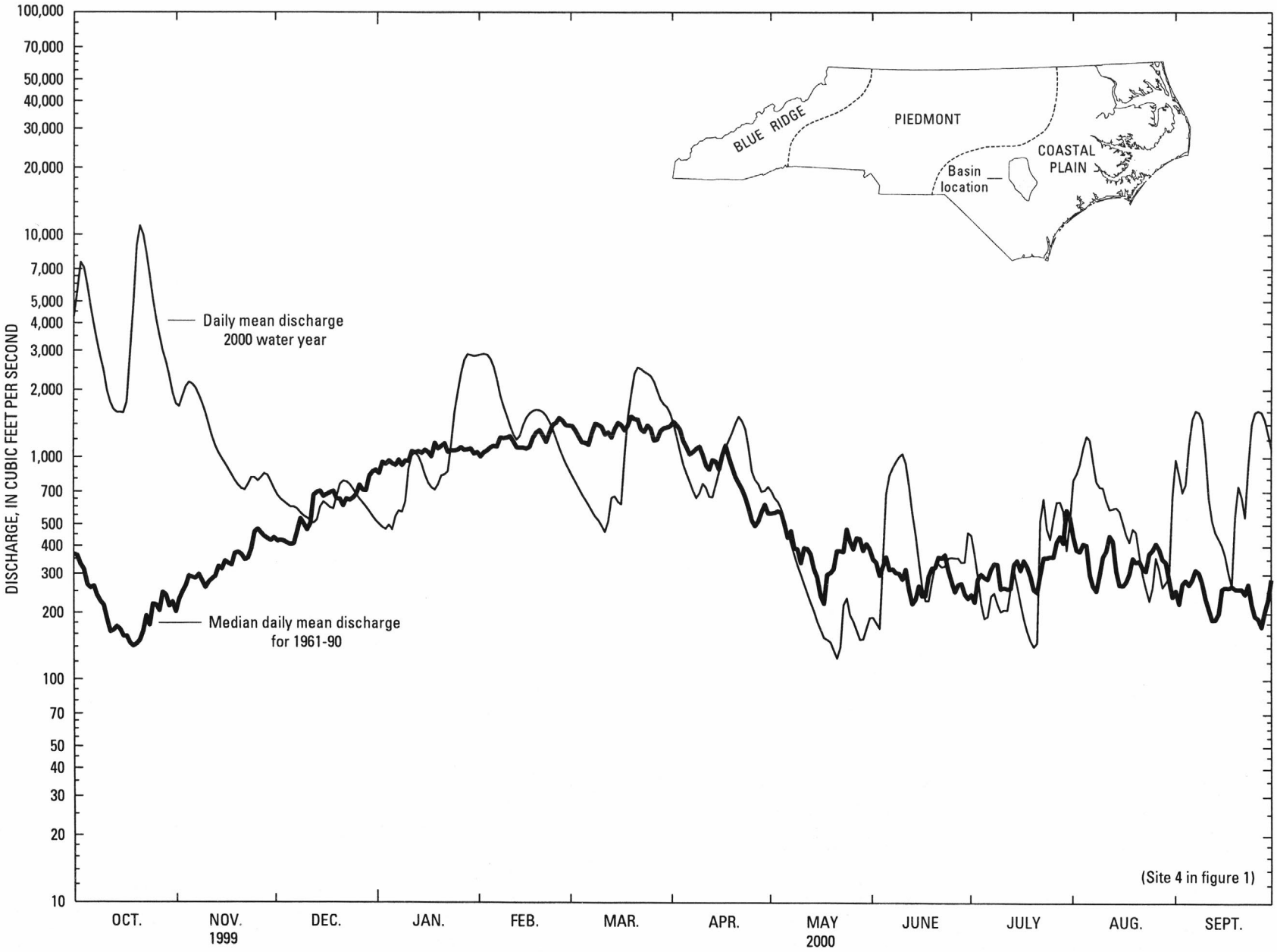


Figure 5.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for Black River near Tomahawk (02106500).

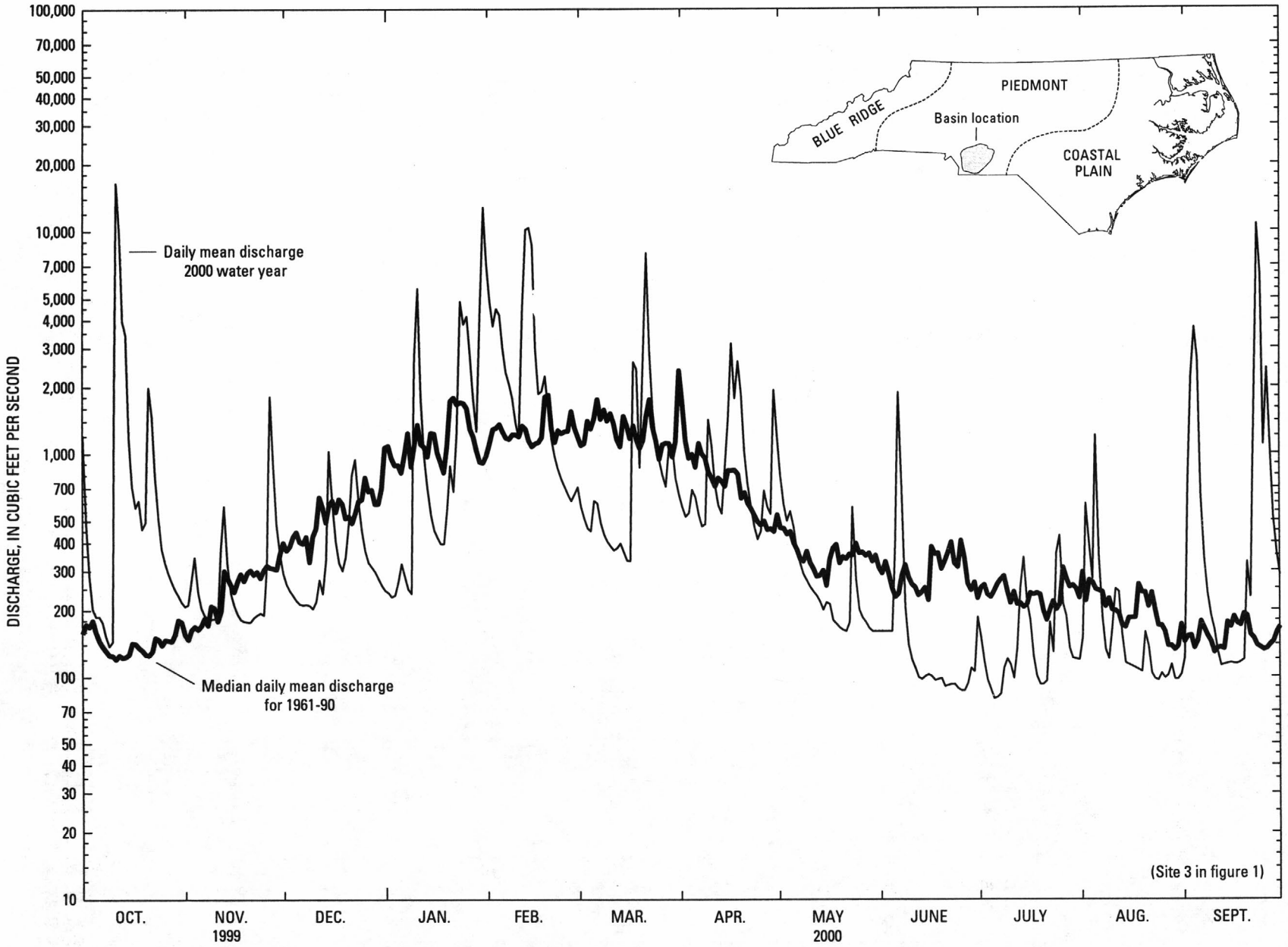


Figure 6.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for Rocky River near Norwood (02126000).

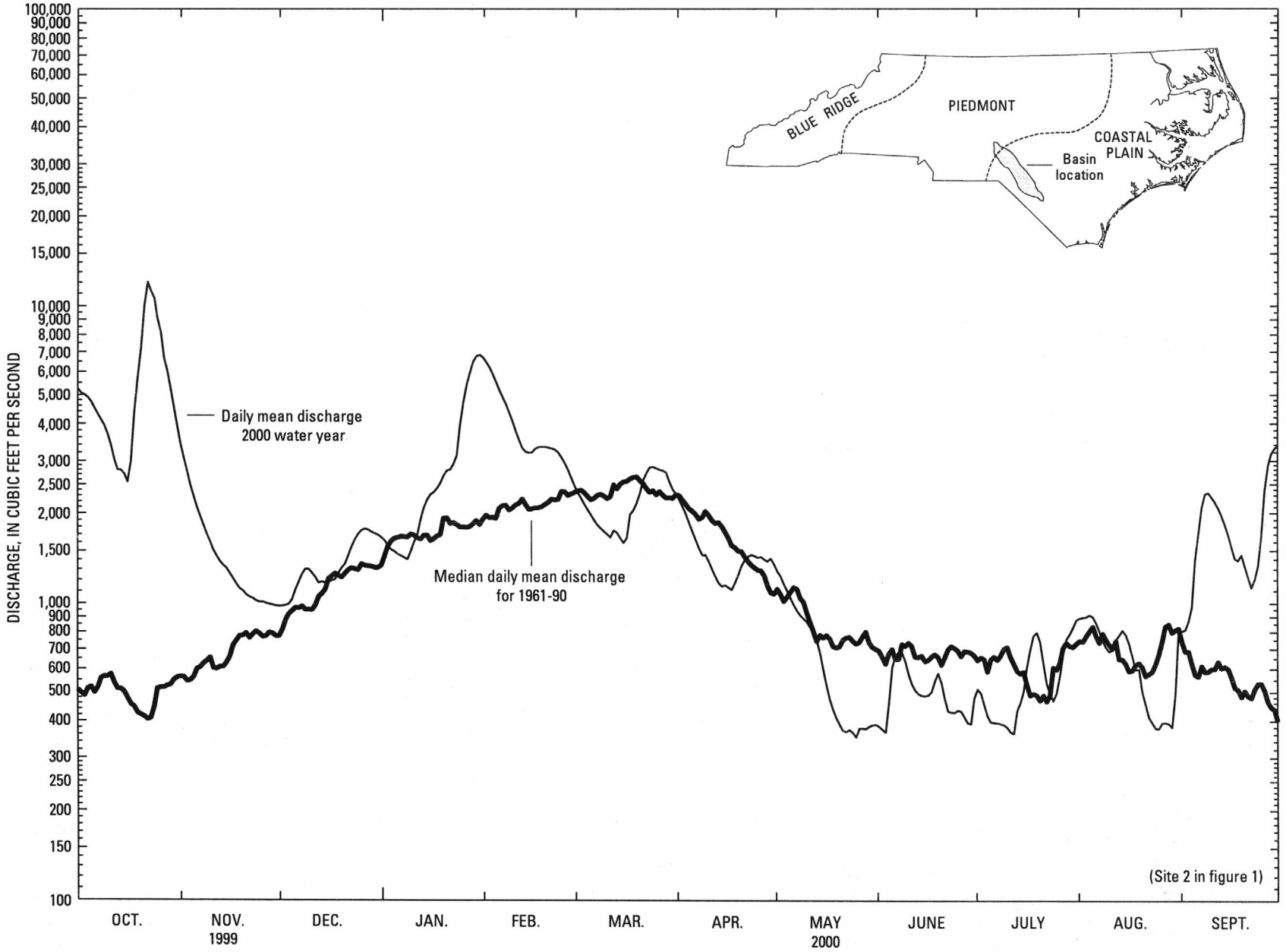


Figure 7.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for Lumber River at Boardman (02134500).

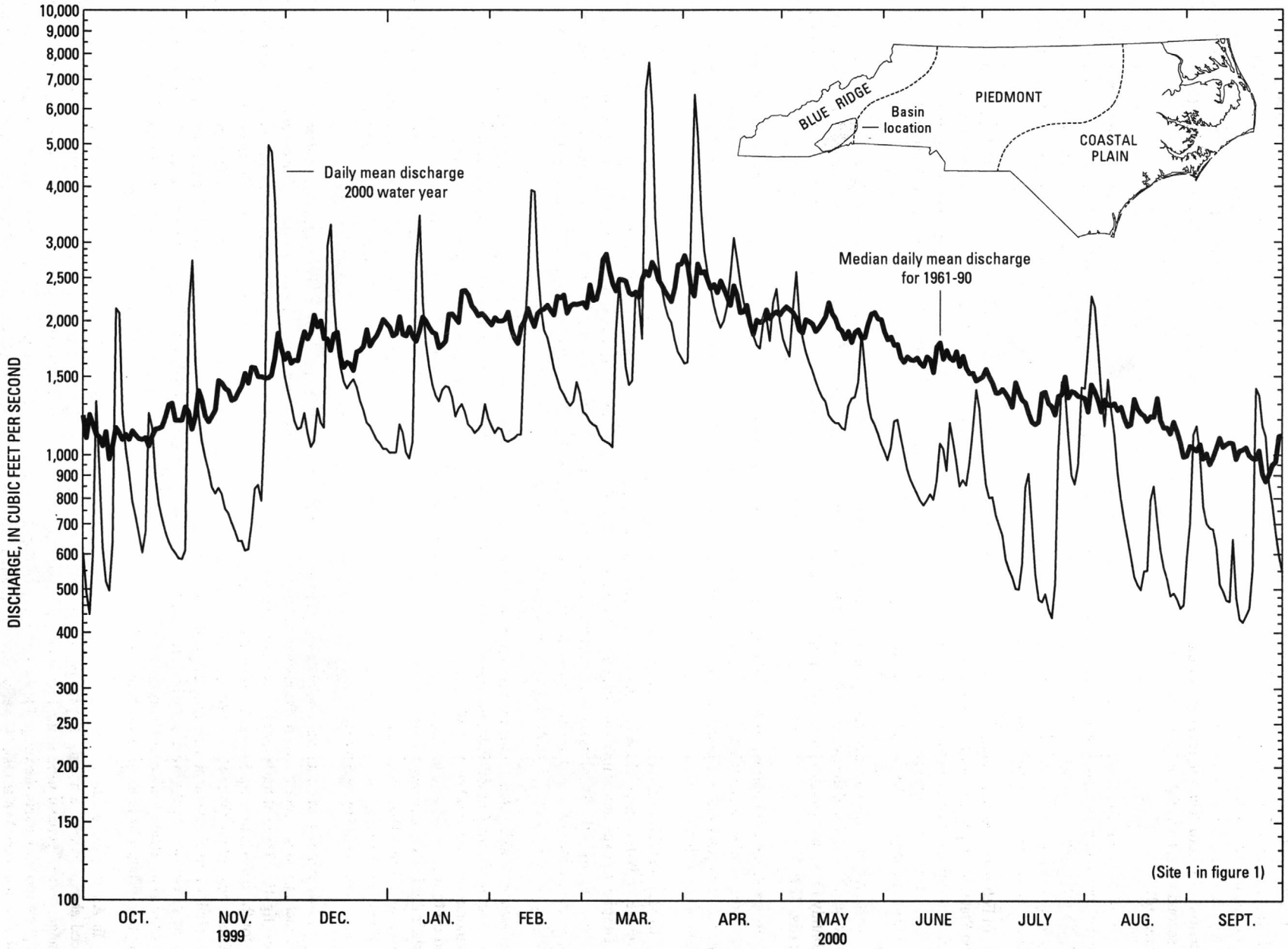


Figure 8.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for French Broad River at Asheville (03451500).

Star, stayed in the above-normal-flow range, recording its second highest mean discharge for the month (fig. 3B).

In December, rainfall totals were below average across the State, with Asheville, Charlotte, Greensboro, and Elizabeth City reporting around 1.50 inches below average. Raleigh reported about 1.0 inch below average, and Wilmington reported more than 2.20 inches below average for the month.The below-average rainfall resulted in 34 percent of the index sites remaining in, or falling into the below-normal flow range, the remaining index sites were in the normal range (fig 3-C). Three index sites reached their third lowest or less, monthly-mean discharge for the periods of record. The site rankings for the periods of record are as follows: third lowest was First Broad River near Casar (42 years of record), second lowest was South Yadkin River near Mocksville (62 years of record), and the lowest was Twelve Mile Creek near Waxhaw (40 years of record).

In January, rainfall totals at each of the index weather sites were above average across the State except at Asheville, which reported 0.15 inch below-average rainfall. The other precipitation index sites reported average or above-average rainfall totals which rainged between 0.2 and 2.55 inches above average. Fifty-one percent of the monthly mean discharges were in the normal range, and 46 percent were in the below-normal range, mostly in the Blue Ridge and western Piedmont Provinces (fig. 3D). One index site, South Toe River near Celo (44 years of record), recorded the third lowest monthly mean discharge for the period of record.

In February, rainfall amounts from the six index weather stations indicated rainfall totals between 1.5 and 2.5 inches below average across the State. Sixty percent of the monthly mean discharges were in the normal range, and 34 percent were in the below-normal range (fig 3E). Again, the index sites with below-normal flow conditions occurred mainly in the Blue Ridge and western Piedmont Provinces. Two index stations, Henry Fork near Henry River (67 years of record) and Indian Creek near Laboratory (50 years of record), recorded their third lowest monthly mean discharge for the periods of record.

In March, rainfall amounts were again below average across the State. Rainfall totals were about 0.8 inch below average in Asheville, Greensboro, and Raleigh, and the two coastal index weather stations reported in excess of 2.8 inches below-average rainfall. Forty-three percent of the monthly mean discharges were in the normal range, and 57 percent were in the below-normal range; distribution was varied throughout the State (fig. 3F).

In April, rainfall totals were above average from the mountains to the coast, with above-average amounts ranging from 1.37 inches (Elizabeth City) to 2.80 inches (Charlotte). All of the index sites remained in the normal monthly mean discharge range or moved into the normal or above-normal range. Eighty-nine percent of the monthly mean discharges were in the normal range, and 11 percent were in the above-normal range throughout the State (fig. 4A).

In May, rainfall totals across most of the State were below average, ranging from 3.16 inches below average in Asheville to 0.73 inch below average in Wilmington. However, the index weather station at Elizabeth City reported a total of 10.41 inches, or 6.18 inches above average. Despite the excessive rainfall in Elizabeth City, 54 percent of the index sites fell from the normal streamflow range to the below-normal streamflow range (fig. 4B). Three index sites reached their third or second lowest monthly mean discharge for the periods of record. The site rankings for the periods of record are as follows: third lowest was Twelve Mile Creek near Waxhaw (40 years of record); the second lowest were Elk Creek near Elkville (35 years of record) and First Broad river near Casar (42 years of record).

In June, rainfall totals for the month were below average in the Blue Ridge Province, near or below average in the Piedmont Province, and above average in the Coastal Plain Province. Despite near-average rainfall in the Piedmont Province, deficient rainfall amounts from the previous month resulted in 60 percent of the index sites remaining in or falling into the below-normal flow range, and 34 percent remained in or moved up to the normal streamflow range. The remaining sites were in the above-normal streamflow range (fig 4C). Seven index sites reached their third or second lowest monthly mean discharge for the periods of record. The site rankings for the periods of record are as follows: third lowest were Little River near Star (47 years of record) and Indian Creek near Laboratory (50 years of record); second lowest were Elk Creek at Elkville (35 years of record), South Yadkin River near Mocksville (62 years of record), Big Bear Creek near Richfield (47 years of record), Henry Fork near Henry River (67 years of record), and First Broad River near Casar (42 years of record).

In July, rainfall amounts were below average at each of the index weather sites across the State except at Raleigh, which reported about 2.2 inches above average. With the above-average rainfall in the Raleigh area, seven index sites had above-normal monthly mean discharges (fig 4D). Three of these index sites reached their third highest or greater monthly mean discharge for the periods of record. The site rankings for the periods of record are as follows: third highest was Fishing Creek near Enfield (74 years of record); second highest was Little Fishing Creek near White Oak (41 years of record); and the highest was Swift Creek near Hilliardston (38 years of record). Six index sites in the western half of the State reached their third lowest or less monthly mean discharge for the periods of record. The site rankings for the periods of record are as follows: third lowest was Elk Creek at Elkville (35 years of record); second lowest were South Yadkin River near Mocksville (62 years of record), Henry Fork near Henry River (67 years of record), First Broad River near Casar (42 years of record), and Nantahala River near Rainbow Springs (60 years of record); and the lowest was Big Bear Creek near Richfield (47 years of record).

In August, the western third of the State experienced below-average rainfall amounts, while the eastern two-thirds of the State experienced above-average amounts. Eleven percent of the index sites were in the above-normal streamflow range, 51 percent were in the normal range, and 38 percent were in the below-normal range (fig. 4E). Two index sites in the eastern part of the State reached their third or second highest monthly mean discharge for the periods of record. The site rankings for the periods of record are as follows: third highest was Little Fishing Creek near White Oak (41 years of record), and the second highest was Swift Creek at Hillardston (38 years of record). Six index

sites reached their third lowest or less, monthly mean discharge for the periods of record. The site rankings for the periods of record are as follows: third lowest was Nantahala River near Rainbow Springs (60 years of record); second lowest were Big Bear Creek near Richfield (47 years of record), Henry Fork near Henry River (67 years of record); and the lowest were South Yadkin River near Mocksville (62 years of record), Indian Creek near Laboratory (50 years of record), and First Broad River near Casar (42 years of record).

In September, the Piedmont and southern Coastal Plain Provinces had above-average rainfall amounts, and the northern Coastal Plain and Blue Ridge Provinces had below-average rainfall amounts. Greensboro, in the Piedmont Province, had 6.47 inches above-average rainfall for the month. Though most of the State had above-average rainfall, it was not enough to move 37 percent of the streamflow index sites from the below-normal flow category, though the percentage of index sites in the above-normal flow range increased 29 percent from the previous month (fig. 4F). Swift Creek at Hilliardston (38 years of record) and Little Fishing Creek near White Oak (41 years of record) had their third highest monthly mean flow for the periods of record. Two index sites reached their lowest monthly mean discharge for the periods of record: Elk Creek at Elkville (35 years of record) and First Broad River near Casar (42 years of record). First Broad River near Casar reached its lowest monthly mean discharge for the period of record for the second consecutive month.

Responses of daily streamflow to basinwide weather patterns throughout the year at four long-term (1961-90) index stations across the State (fig. 1) are shown in figures 5-8. The daily mean discharge hydrograph for the 2000 water year is superimposed on the long-term median daily mean discharge hydrograph for each of these index stations. Daily mean discharge fluctuated both above and below the median daily mean discharge at the four sites for most of the 2000 water year.

In summary, below-average precipitation occurred during the 2000 water year throughout much of the State until the latter part of the year when the Piedmont and Coastal Plain Provinces experienced some relief with above-average rainfall amounts. Annual departure from normal precipitation totals for the six index weather stations were reported as follows: Asheville, -10.02 inches; Charlotte, -4.19 inches; Greensboro, -1.44 inches; Raleigh, -0.42 inch; Wilmington, 1.69 inches; Elizabeth City, 8.42 inches. Streamflow conditions reflected the rainfall pattern across the State, yielding below-normal streamflow conditions throughout most of the year in the Blue Ridge Province, a full range of conditions in the Piedmont, and normal to above-normal streamflow conditions in the Coastal Plain Province of North Carolina.

Water Quality

Water-quality data are summarized for Contentnea Creek near Hookerton (733-mi^2 drainage area), Neuse River at Kinston (2,692-mi^2 drainage area), Cape Fear River near Brickhaven (3,160-mi^{2}drainage area), and Flat River at Bahama (149 mi^2). These stations drain watersheds in the Piedmont (Cape Fear River and Flat River) and Coastal Plain (Neuse River and Contentnea Creek) Provinces of North Carolina. The USGS collected water samples at these sites during the 2000 water year as part of the USGS National Water-Quality Assessment (NAWQA) Program (Spruill and others, 1998), and for two projects that are part of the USGS Cooperative Program (Garrett and Bales, 1995; Childress and Bathala, 1997). These sites are generally illustrative of in-stream water-quality conditions in these watersheds.

In October 1999, Contentnea Creek and the Neuse River and, to a much lesser extent, the Cape Fear River were still at flood stage from the combined effects of Hurricanes Dennis, Floyd, and Irene (fig. 9a, 9b, 9c). Hurricanes Dennis and Floyd hit the North Carolina coast in September 1999 followed by Hurricane Irene in October 1999 bringing 29.48 inches of rain to the Neuse River Basin at Kinston (Bales and others, 2000).

Concentrations of total phosphorus and orthophosphate as P, nitrite plus nitrate and ammonia plus organic nitrogen as N, total and dissolved organic carbon, total dissolved solids, and suspended sediment are illustrated along with hydrographs of daily mean discharge for the 2000 water year (fig. 9). The maximum total phosphorus concentration occurred in the Cape Fear River in September (0.38 mg/L as P; fig. 9c). Decreases in total phosphorus concentrations in January correspond with seasonal increases in discharge in Contentnea Creek, the Neuse River, and Cape Fear River. (fig. 9a, 9b, 9c). Total phosphorus concentrations were lowest in the Flat River (fig 9d)—all but five values were below the laboratory reporting level (<0.05 mg/L as P). The maximum concentration at Flat River (0.21 mg/L) occurred during a high-streamflow event in April. Greatest orthophosphate concentrations occurred during seasonal decreases in discharge in Contentnea Creek, the Neuse River, and the Cape Fear River (fig 9a, 9b, 9c). Orthophosphate concentrations were less than or near the laboratory reporting level (<0.01 mg/L) in the Flat River (fig. 9d).

Nitrite plus nitrate concentrations were similar in Contentnea Creek and the Neuse River and ranged from 0.26 to 1.0 mg/L. The minimum concentration in water year 2000 was much greater than the minimum of 0.05 mg/L recorded in the 1999 water year that occurred during September in floodwaters from Hurricane Floyd. The median nitrite plus nitrate concentrations (0.7 mg/L each) for the Neuse River and Contentnea Creek were the same as in water year 1999. The lowest median and range in nitrite plus nitrate concentrations occurred in the Flat River (range of 0.14 to 0.35 mg/L as N; median of 0.23 mg/L as N; fig. 9d). In the Cape Fear River high nitrite plus nitrate concentrations corresponded with seasonal increases in discharge (fig. 9c). The maximum range and concentration of ammonia plus organic nitrogen (1.1 mg/L as N) occurred in September during a high-streamflow event in the Flat River. In general, concentrations of ammonia plus organic nitrogen were similar among these sites.

Total organic carbon (TOC) was measured in Contentnea Creek, and the Neuse and Cape Fear Rivers. TOC concentrations ranged from 5.4 to 17.0 mg/L (fig. 9a, 9b, 9c). Maximum TOC concentrations were measured in floodwaters from Hurricanes Dennis, Floyd, and Irene. Samples were analyzed for dissolved organic carbon (DOC), the dissolved fraction of TOC, in the Neuse River and Contentnea Creek. DOC

typically composed nearly all of the TOC (fig. 9a, 9b).

Dissolved solids concentrations were greater in the Cape Fear River (83 to 112 mg/L, fig. 9c) than in the Neuse River and Contentnea Creek (58 to 91 mg/L, fig. 9a, 9b). Concentrations decreased during seasonal increases in discharge. The maximum suspended-sediment concentration (215 mg/L) occurred in the Flat River and was associated with a high-flow event in April (fig. 9d). Otherwise, concentrations of suspended sediment were similar among the sites.

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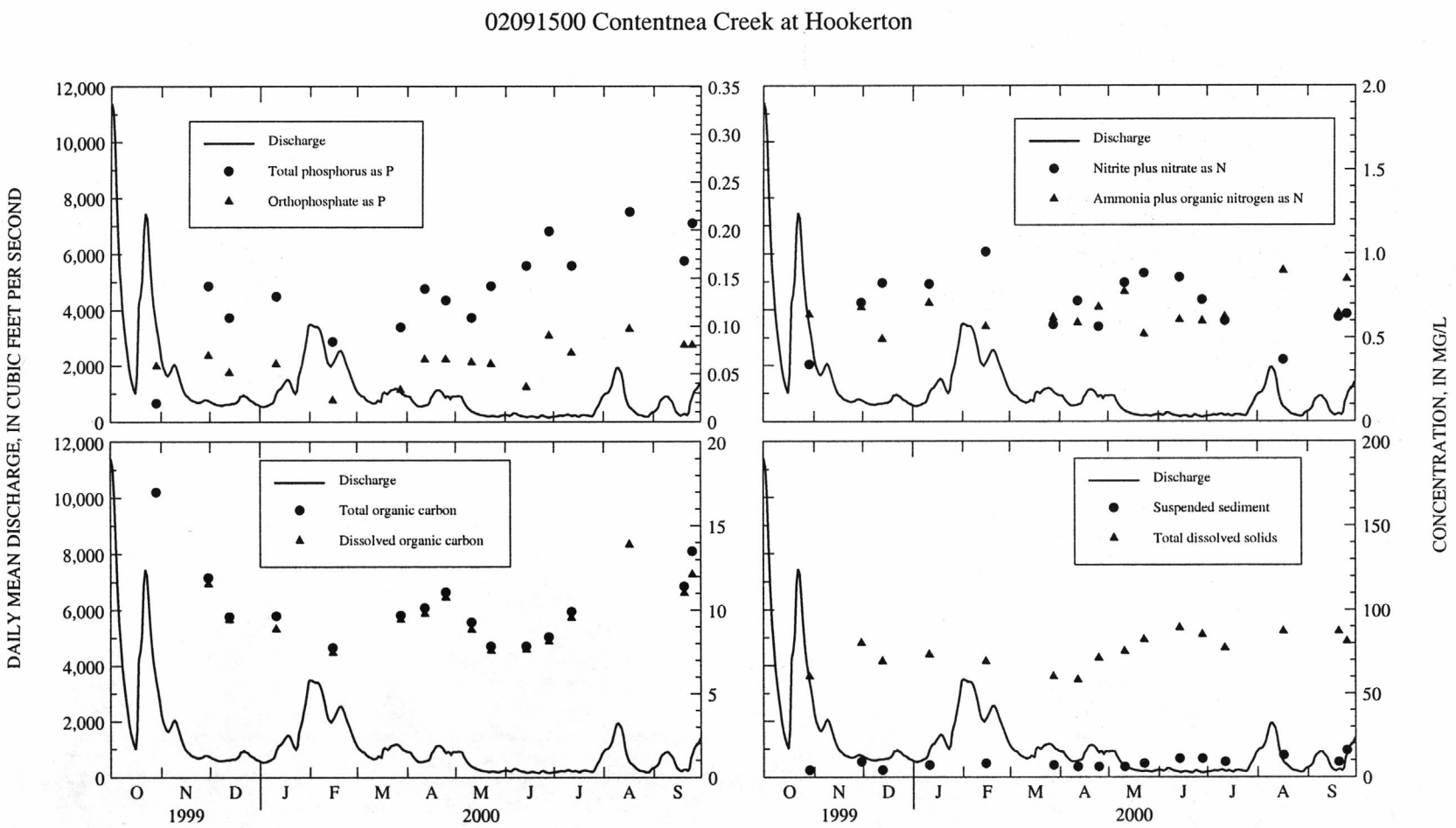


Figure 9a.--Concentration of selected constituents and daily mean discharge for Contentnea Creek at Hookerton during the 2000 water year.

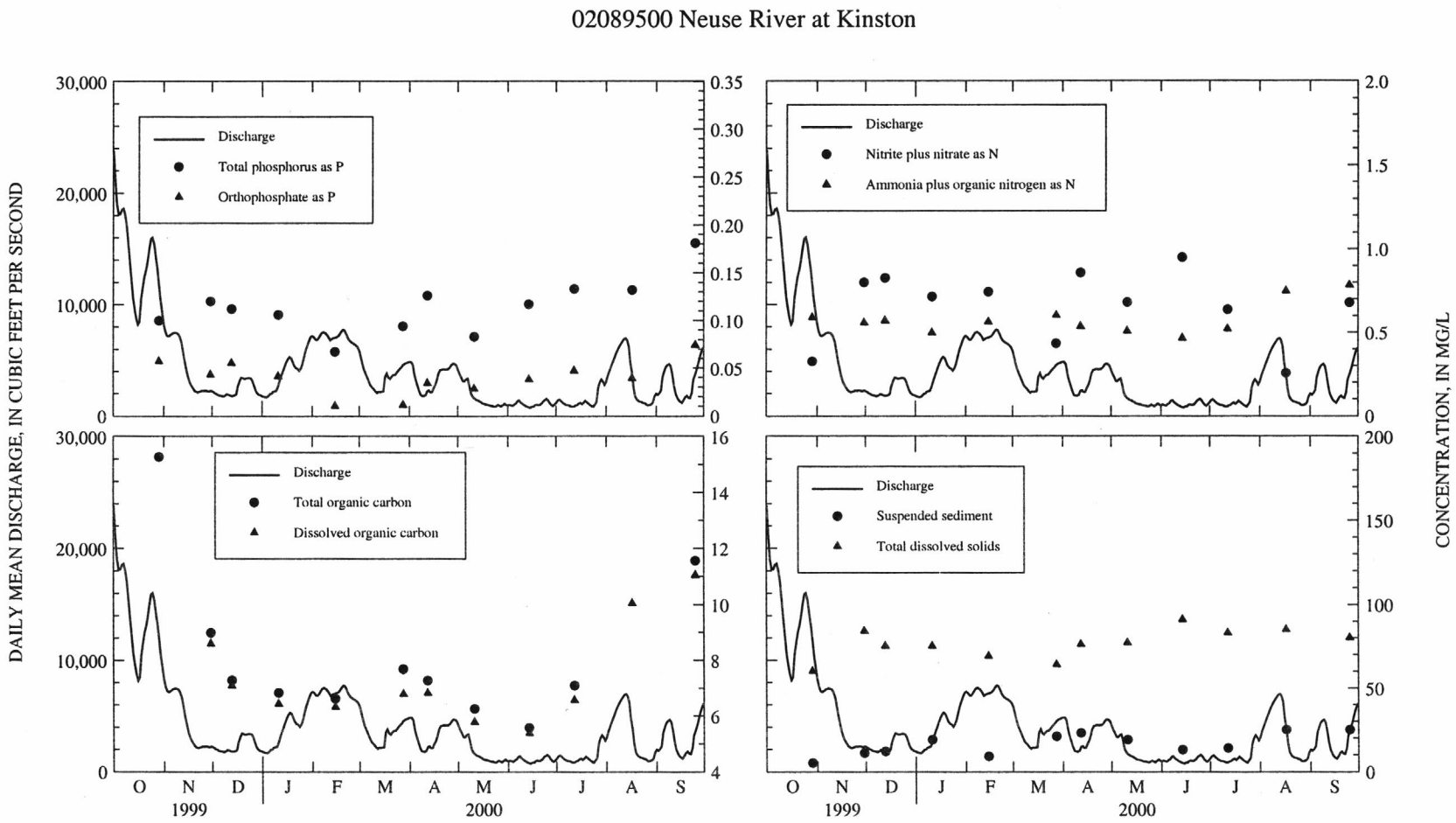


Figure 9b.--Concentration of selected constituents and daily mean discharge for Neuse River at Kinston during the 2000 water year.

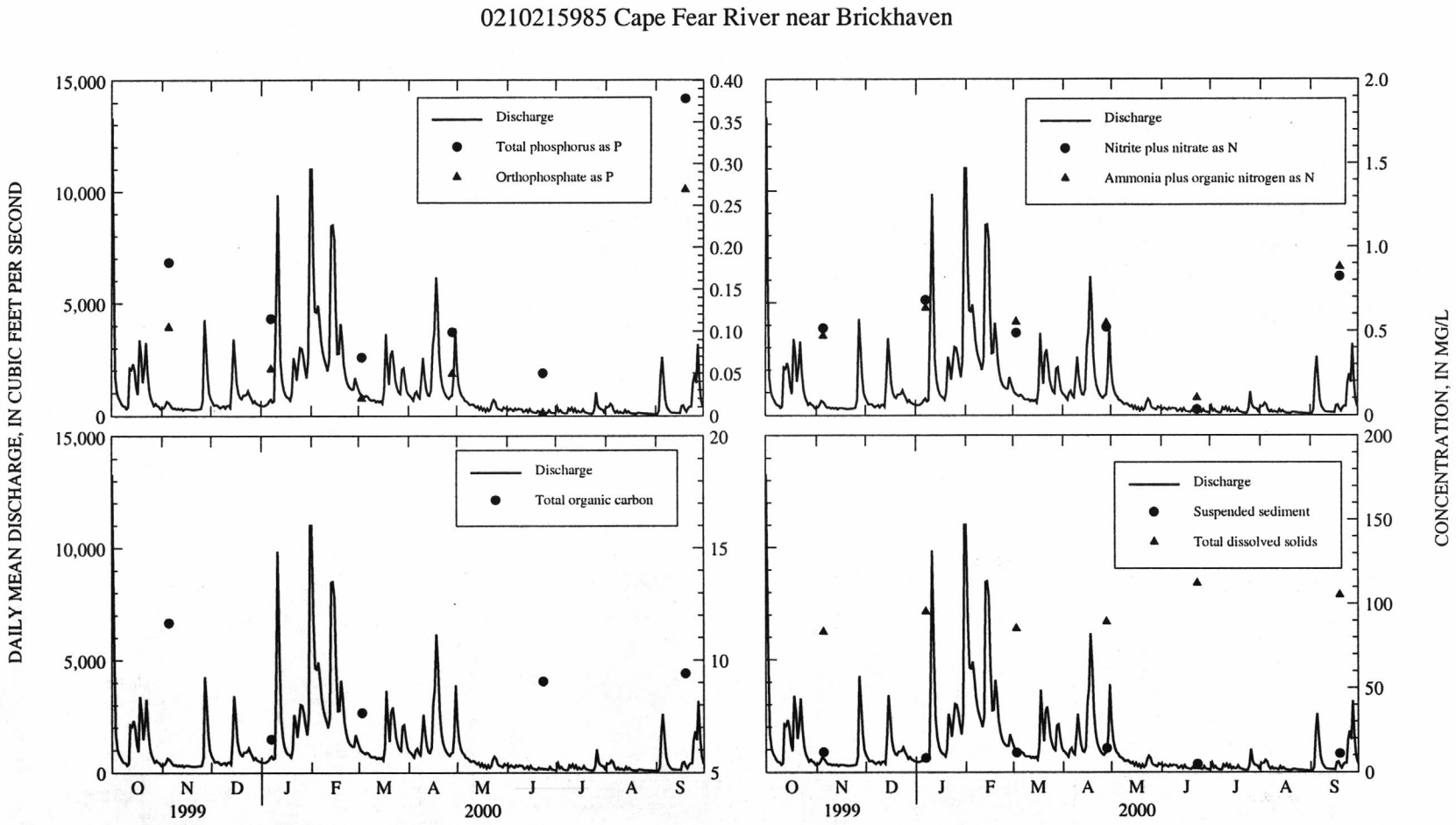


Figure 9c.--Concentration of selected constituents and daily mean discharge for Cape Fear River near Brickhaven during the 2000 water year.

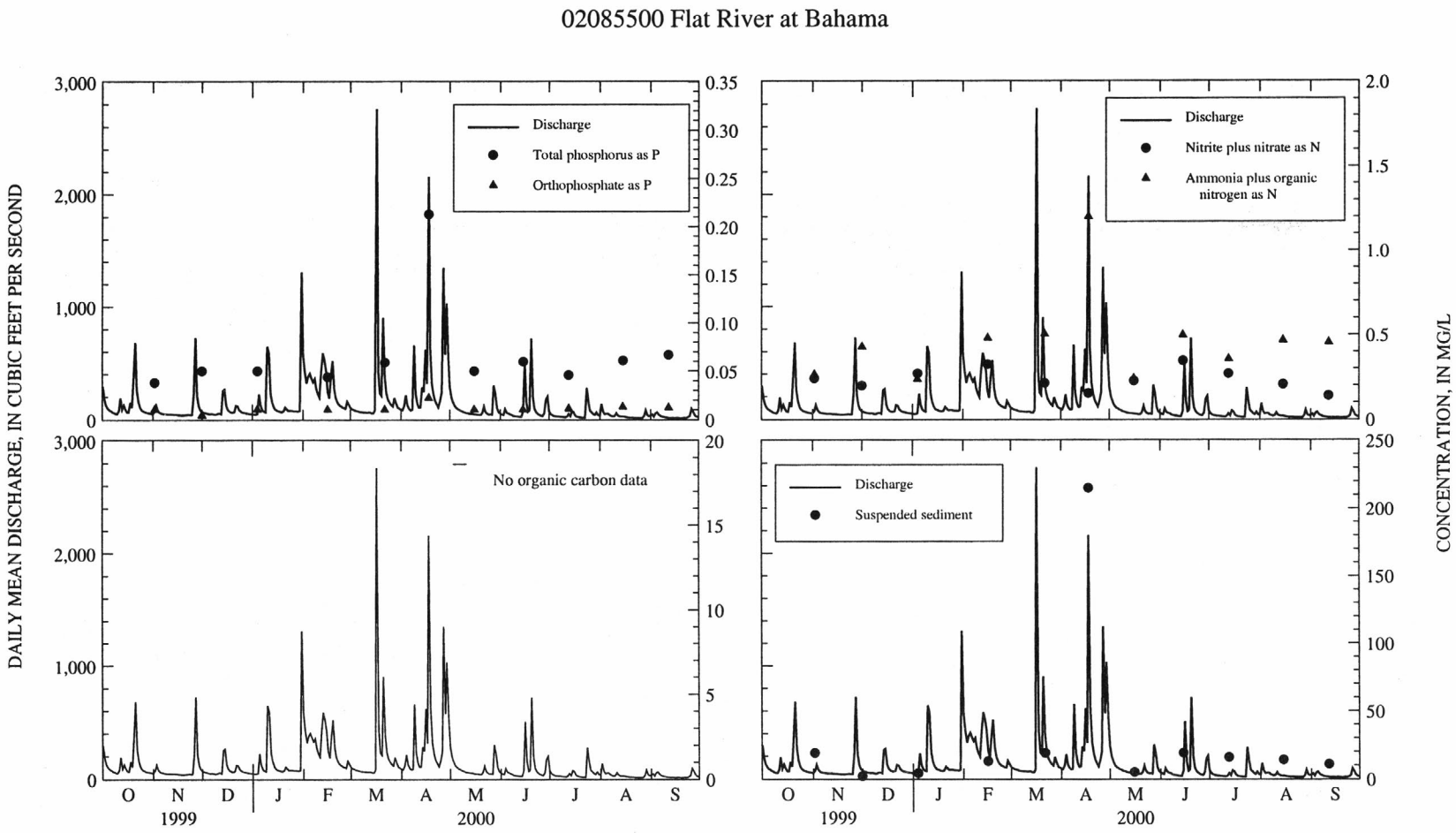


Figure 9d.--Concentration of selected constituents and daily mean discharge for Flat River at Bahama during the 2000 water year.

SPECIAL NETWORKS AND PROGRAMS

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

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at at http://water.usgs.gov/nasqan/.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at http://bqs.usgs.gov/acidrain/.

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

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program is available through the world wide web at http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

EXPLANATION OF RECORDS

The surface-water records published in this report are for the 2000 water year that began October 1, 1999, and ended September 30, 2000. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, and water-quality data. Locations of the stations where the data were collected are shown in figures. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

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

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

Downstream Order System

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

The station identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight- or ten-digit number for each station, such as 02053200 (0208700780), which appears just to the left of the station name, includes the two-digit part number "02" plus the six- or eight digit downstream-order number "053200." The part number designates the major river basin; for example, part "02" is the South Atlantic Slope Basin.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote degrees, minutes, and seconds of longitude; and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site identification number, once assigned, is a part number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (fig. 10).

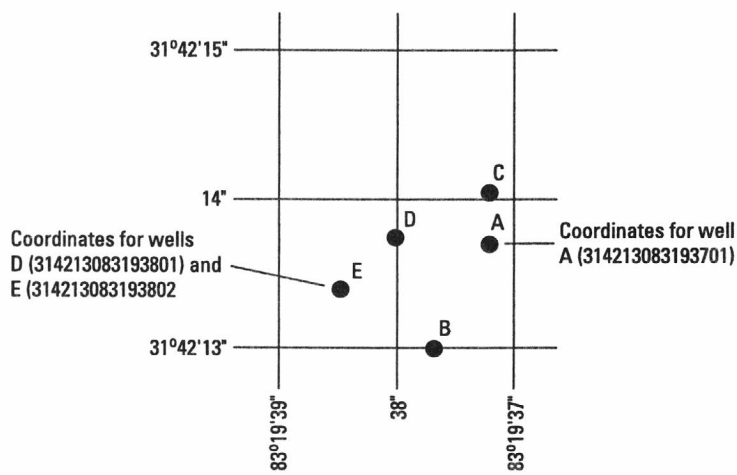


Figure 10.--System for numbering miscellaneous sites and wells.

Records of Stage and Water Discharge

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

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

Data Collection and Computation

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

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

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

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

At some stream-gaging stations, the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

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

Data Presentation

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

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

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

Station manuscript

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

LOCATION.-- Information on site locations is obtained from the most accurate maps available. The location of the gage is given with respect to cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name. River miles, given for only a few stations, were either determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council, or were provided by the U.S. Army Corps of Engineers. Latitudes and longitudes used in this report are reported as National American Datum of 1927 unless otherwise specified.

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

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

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

GAGE.--The type of gage in current use, the datum of the current gage referenced to sea level (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, information regarding extremes for period of record and current year data and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. This information may or may not have been obtained by the USGS.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there possibly would be no current or, future station manuscript published to document the revision in a "Revised Records" entry, data users who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. If the data were obtained by computer retrieval, however, the data would be current, and any published revision of data is always accompanied by revision of the corresponding data in computer storage. Manuscript information for lake or reservoir

stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR which were included prior to the 1987 water year have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

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

Statistics of monthly mean data

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

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "FOR WATER YEARS ____-____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

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

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

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

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

Data Presentation--Continued

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

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

HIGHEST DAILY MEAN.--The maximum daily mean discharge occurring for the designated period.

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

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

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

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

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

ANNUAL RUNOFF (AC-FT).--Indicates the depth, in acre-feet, to which the drainage area would be covered if all of the runoff for the year were uniformly distributed on it.

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

ANNUAL RUNOFF (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

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

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

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

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

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

Accuracy of the Records--Continued

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

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

Other Records Available

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

Records of Discharge Collected by Agencies Other Than the U.S. Geological Survey

Records of stream stage not published by the USGS were collected in North Carolina during the 2000 water year by the National Weather Service, NOAA, U.S. Department of Commerce, and other Federal agencies. The USGS National Water Data Exchange (NAWDEX), National Center, Reston, Virginia 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

Records of Precipitation

Data Collection and Computation

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

Data Presentation

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

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

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

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

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

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

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

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

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

A careful distinction needs to be made between *continuing records* as used in this report and *continuous recordings* which refers to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, can be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 14 and 15.

Arrangement of Records

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

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on site measurements and for collecting, treating, and shipping samples are given in TWRI's Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chaps. A1, A3, and A4. All of these references are listed on pages 32 through 35 of this report. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS North Carolina District office.

It is possible for one sample to adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section can vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample for use in determining an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several vertical depends on flow conditions and other factors which must be evaluated by the collector.

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) can be obtained from the USGS North Carolina District office at the address given on the back of the title page of this report.

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

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

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

Sediment

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

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

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

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

Laboratory Measurements

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

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

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

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

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

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

$$MBASCOR = M - 0.0088N - 0.00019C$$

where:

MBASCOR = corrected MBAS concentration, in mg/L;

M = reported MBAS concentration, in mg/L;

N = dissolved nitrate plus nitrate, as nitrogenconcentration, in mg/L; and

C = dissolved chloride concentration, in mg/L.

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

Data Presentation

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

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

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

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

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

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

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

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

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

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the water-quality file in the USGS computer data system, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document these changes in the State data-report series or elsewhere, potential users of USGS water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

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

Remarks Codes

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

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (nonideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

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

Change in National Trends Network Procedures

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

Water Quality-Control Data

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

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

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

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

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

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

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

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

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

Reference Samples

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

Replicate Samples

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

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

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike Samples

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

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

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

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.

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

Algae are mostly aquatic single-celled, colonial, or multicelled plants containing chlorophyll and lacking roots, stems, and leaves.

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

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

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters

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

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

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

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Fecal streptococcal bacteria are bacteria found in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible pres-

ence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants.

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

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

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

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

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

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

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass is expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

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

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

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

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^3 h$ cylinder $\pi r^3 h$.

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

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

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

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

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

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

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measure-ments are recorded at least daily.

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

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

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft^3/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

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

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

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

Instantaneous discharge is the discharge at a particular instant of time.

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

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

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

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

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

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

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

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

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

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

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site:*
http://www.co-ops.nos.noaa.gov/tideglos.html

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

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

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

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

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

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

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

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells.

Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

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

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

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

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

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

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

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

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

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

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

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

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

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

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

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88*

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

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of

Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

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

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

Organism is any living entity.

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

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

Total organism count is the total number of organisms collected and enumerated in any particular sample.

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

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

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

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

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

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 - 64.0	Sieve

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

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

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

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

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

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical

constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

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

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

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

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

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

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

Fire algae (*Pyrrhophyta*) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

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

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

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

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

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

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

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

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

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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

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

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

Runoff in inches (IN., in.) is the depth, in inches, to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929. *See: http://www.co-ops.nos.noaa.gov/ glossary/gloss_n.html#NGVD*

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q10, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

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

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

Stage: See "Gage height."

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

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

Substrate is the physical surface upon which an organism lives.

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

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

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

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

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

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

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

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

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

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

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

Total recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of

analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are manmade chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

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

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1999, is called the "1999 water year."

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

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

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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

2-D2. *Application of seismic-refraction techniques to hydrologic studies,* by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

2-E2. *Borehole geophysics applied to ground-water investigations,* by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

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

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

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

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3. Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

3-Al0. *Discharge ratings at gaging stations,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

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

3-A13. *Computation of continuous records of streamflow,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers,* by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.

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

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers,* by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-water techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.

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

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

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

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

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

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by Thomas K. Edwards and G. Douglass Glysson: USGS-TWRI Book 3, Chapter C2, 1988, 80 pages.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

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

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

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

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

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

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

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

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

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

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

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

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

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler. 1995. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

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

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

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers,* by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

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

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

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

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

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

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

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

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

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-Material Samples,* by D.B. Radtke: USGS--TWRI Book 9, Capter A8. 1998. 48 pages.

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

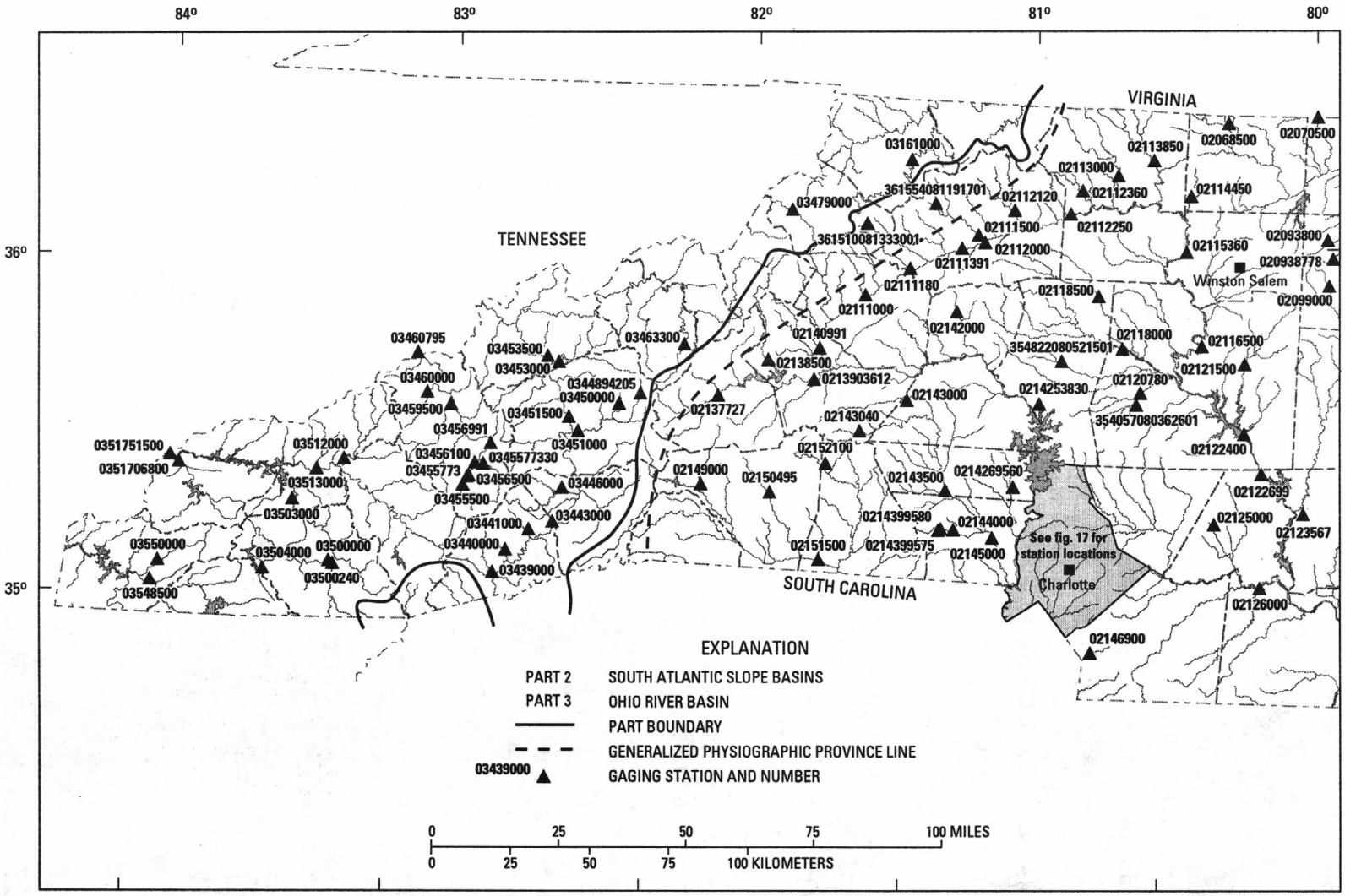


Figure 11.--Locations of gaging stations in western North Carolina.

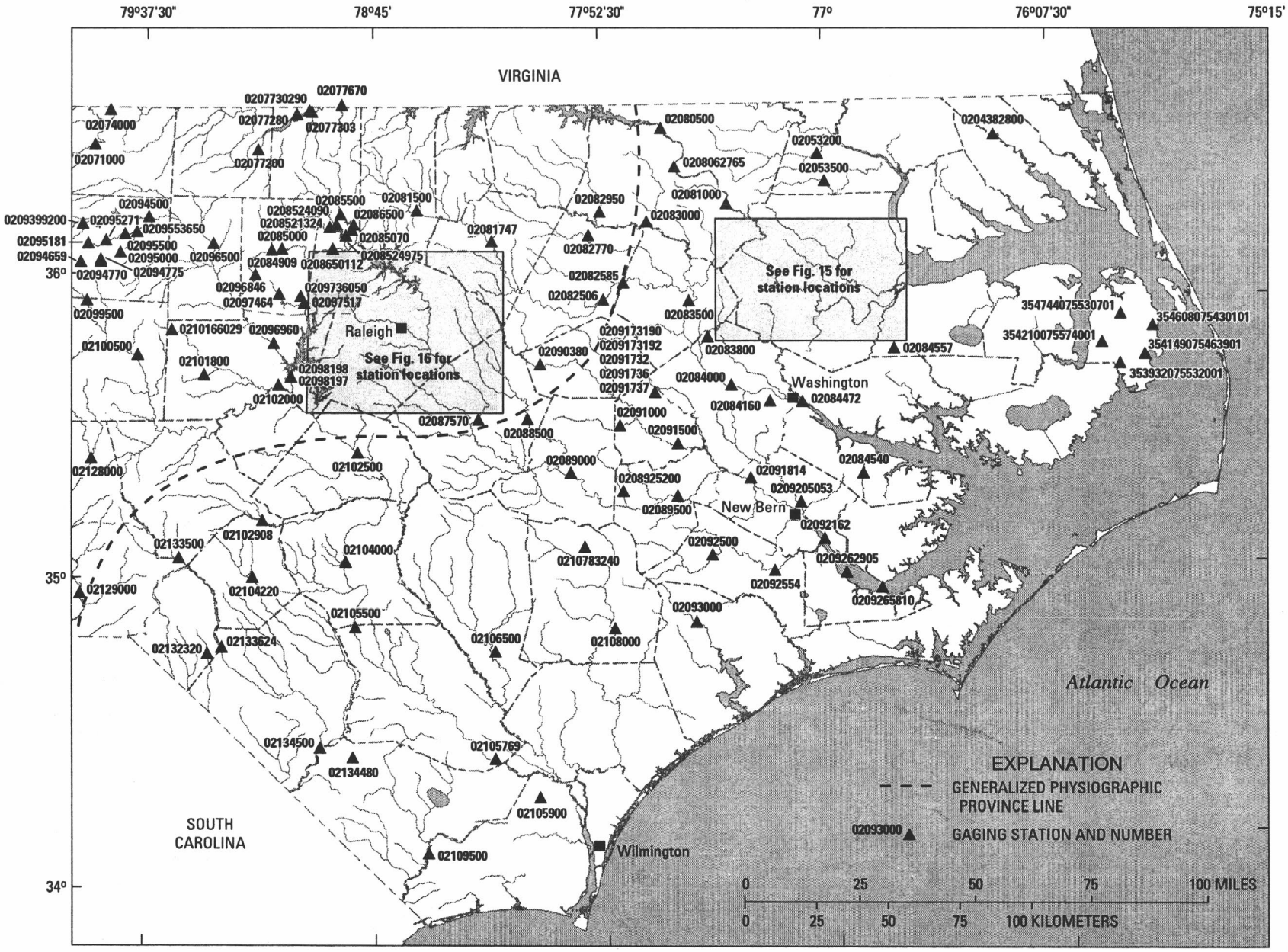


Figure 12.--Locations of gaging stations in eastern North Carolina.

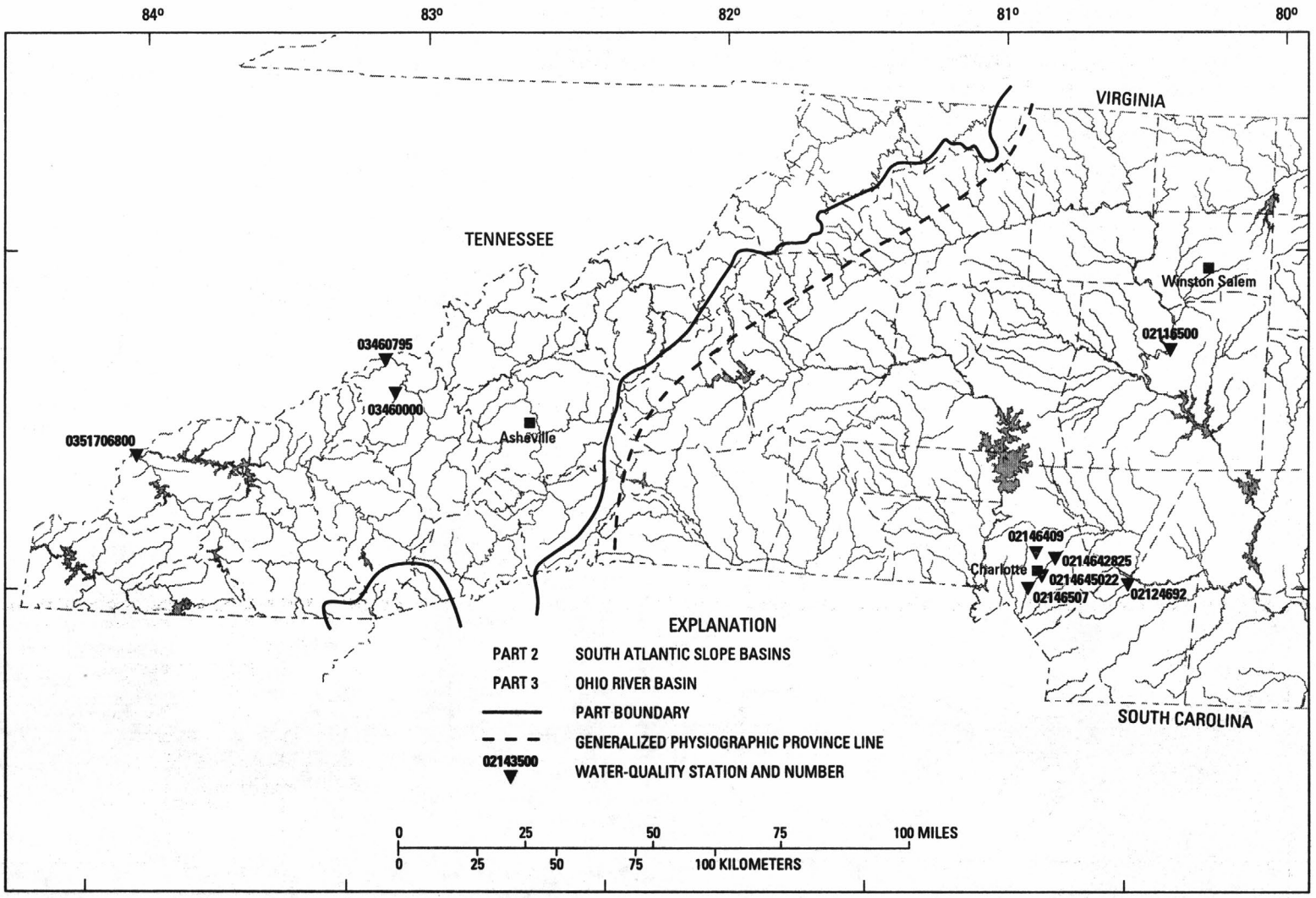


Figure 13.--Locations of water-quality stations in western North Carolina.

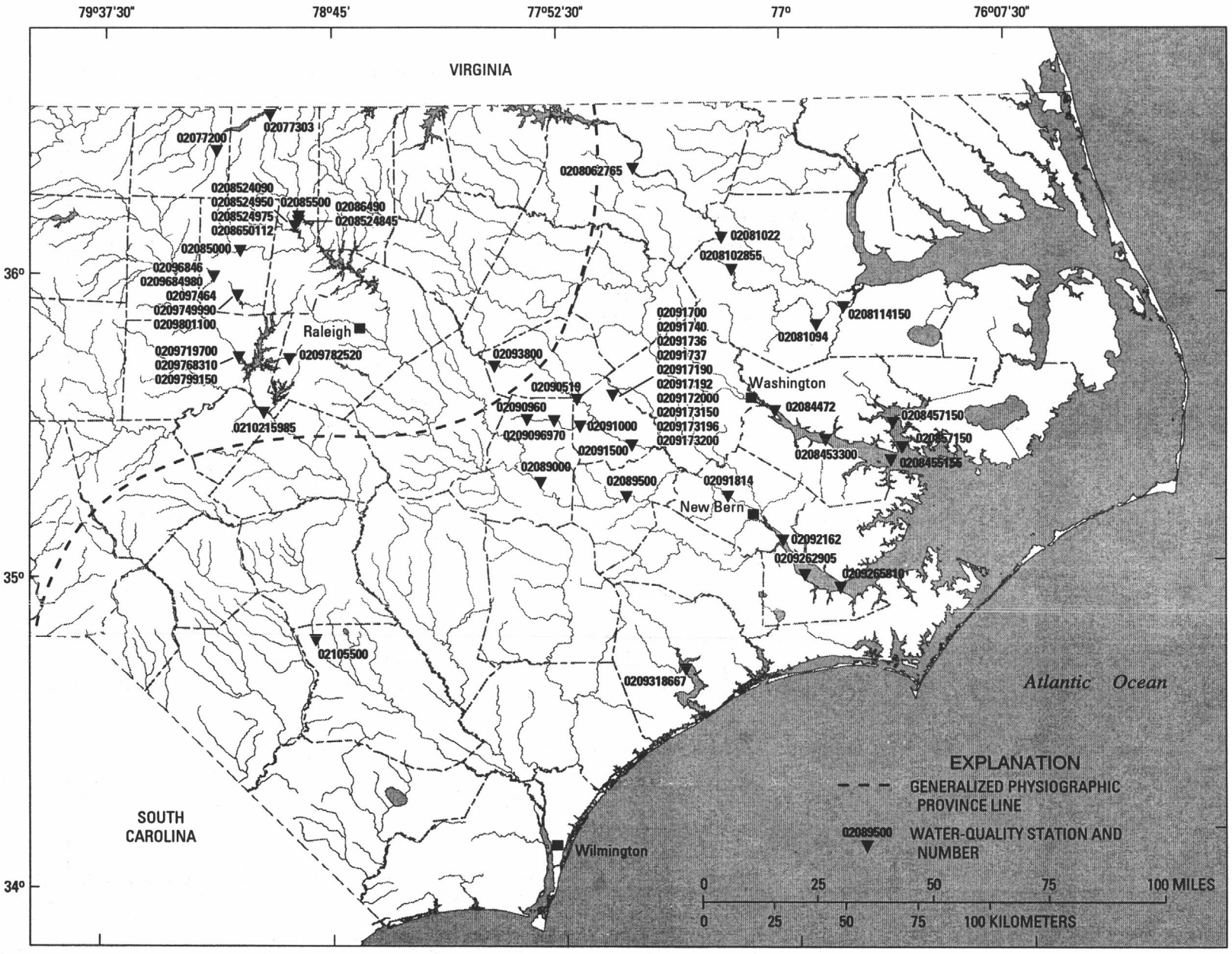


Figure 14.--Locations of water-quality stations in eastern North Carolina.

LOCATION OF SITES IN BERTIE AND MARTIN COUNTIES, NORTH CAROLINA

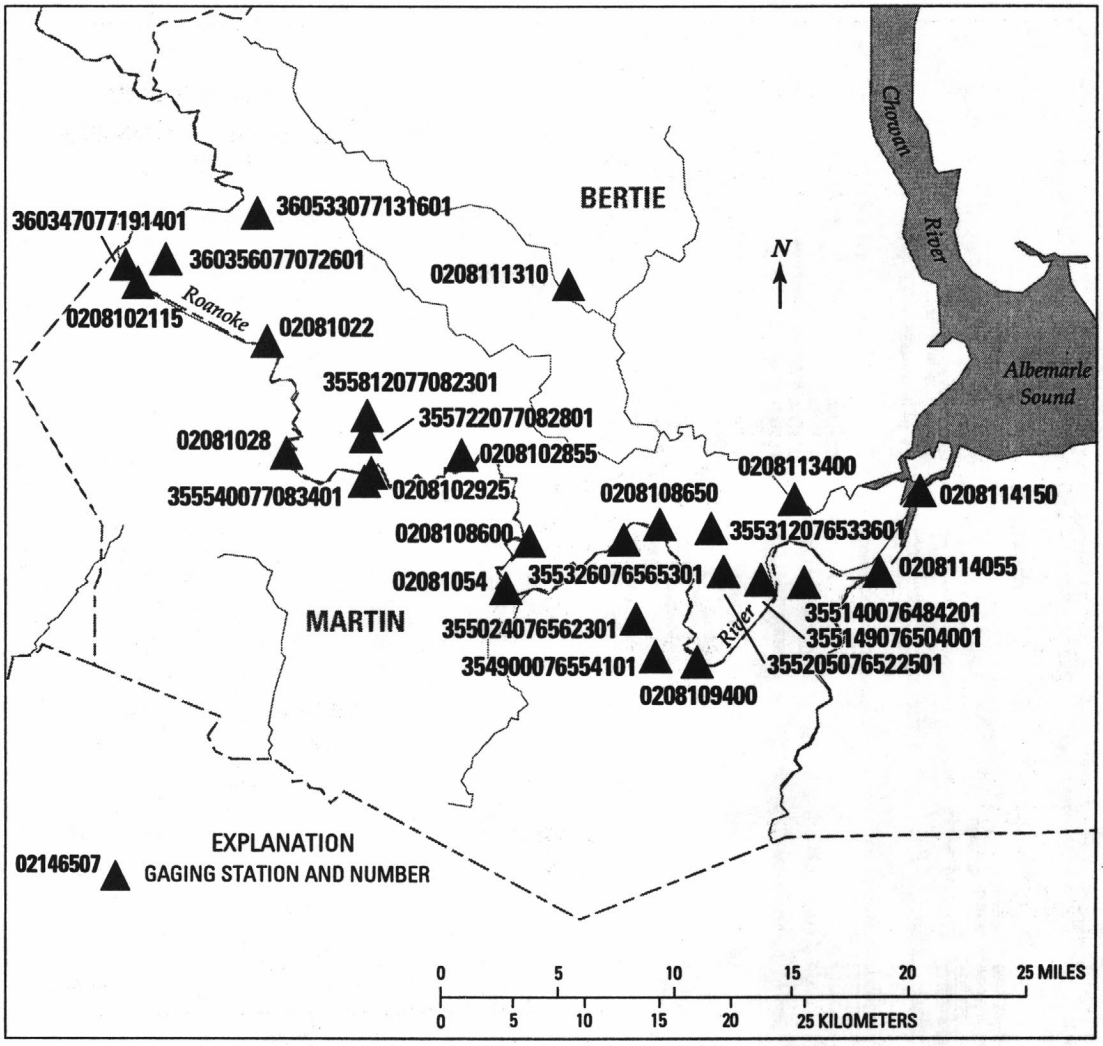
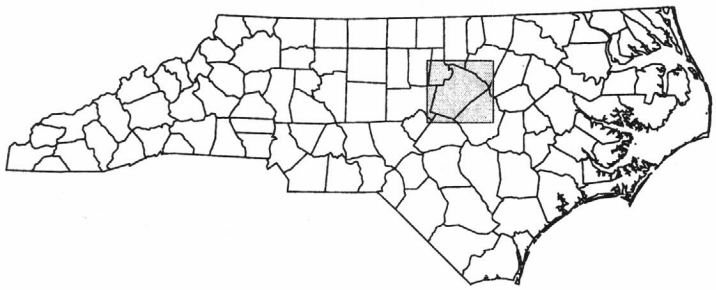


Figure 15.--Locations of gaging stations in Bertie and Martin Counties, North Carolina.



LOCATION OF SITES IN AND AROUND WAKE COUNTY, NORTH CAROLINA

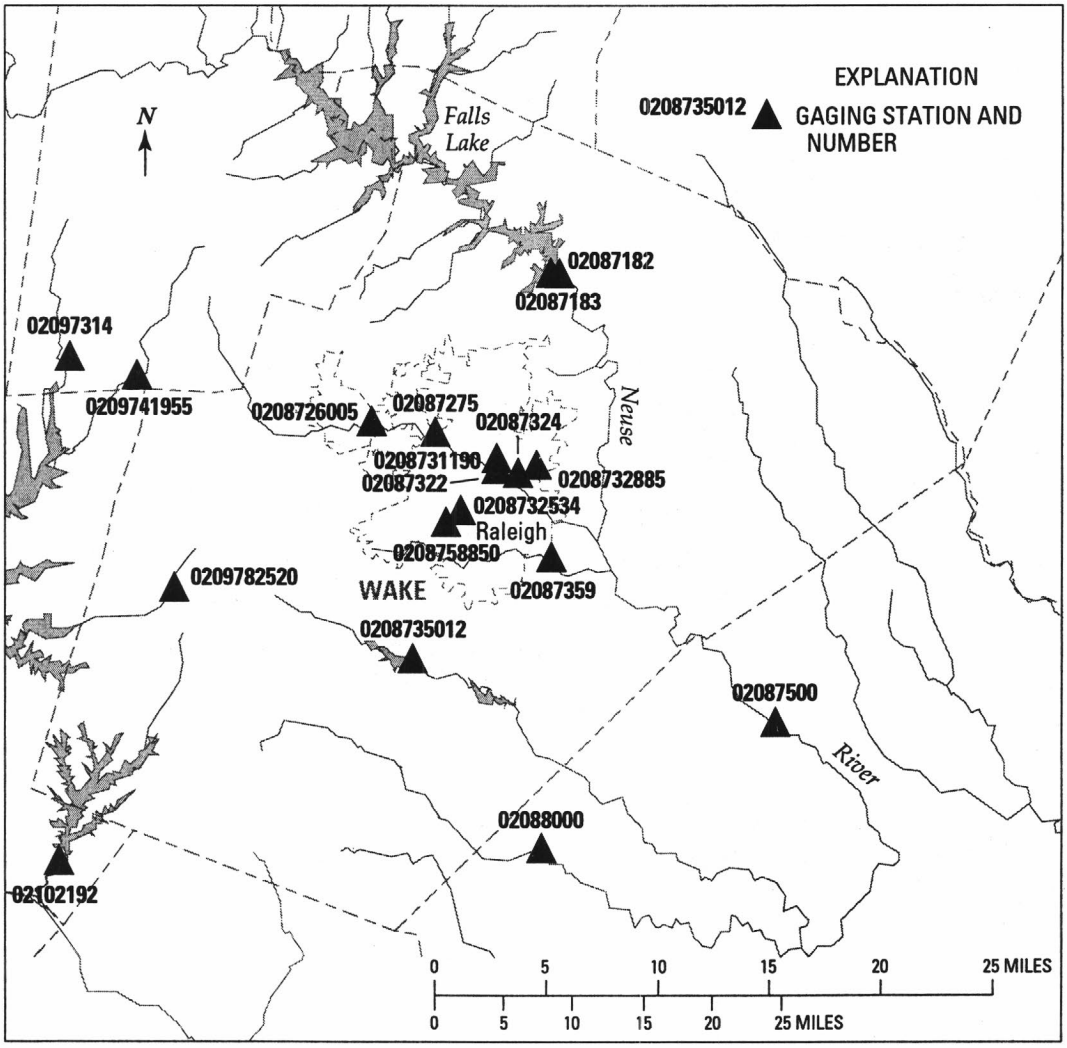


Figure 16.--Locations of gaging stations in and around Wake County, North Carolina.

LOCATION OF SITES IN AND AROUND MECKLENBURG COUNTY, NORTH CAROLINA

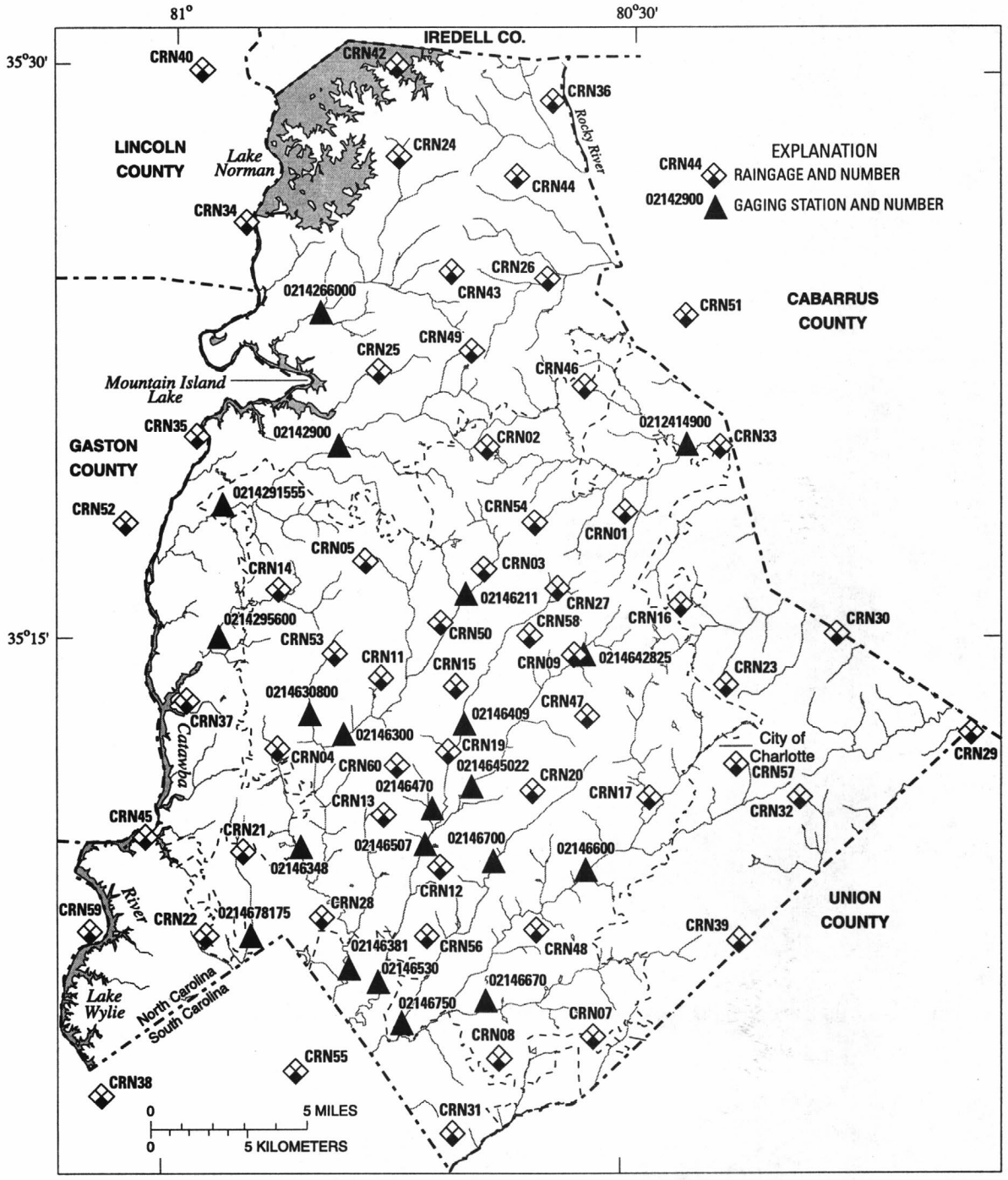


Figure 17.--Locations of gaging stations in and around Mecklenburg County, North Carolina.

USGS gaging station at the Northeast Cape Fear River near Chinquapin.

02093800 REEDY FORK NEAR OAK RIDGE, NC

LOCATION.--Lat 36°10'22", long 79°57'12", Guilford County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 2128, 0.8 mi downstream of Beaver Creek, and 2 mi east of Oak Ridge.

DRAINAGE AREA.--20.6 mi^2.

PERIOD OF RECORD.--October 1955 to current year.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 771.30 ft above sea level. Prior to Dec. 13, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated discharges, which are poor. Some diurnal fluctuation at medium and low flows caused by upstream mill. Maximum discharge for period of record, from rating curve extended above 1,500 ft^3/s on basis of contracted-opening measurement; gage height: 10.94 ft. Minimum discharge for current water year also occurred on July 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	12	17	14	38	15	17	24	11	8.4	24	15
2	24	16	15	14	32	15	16	21	10	7.6	13	45
3	18	15	15	14	29	14	48	20	9.8	7.1	9.9	142
4	16	13	14	21	34	14	36	18	13	6.9	8.9	87
5	16	12	14	33	37	14	26	17	13	8.0	8.1	62
6	14	12	18	21	33	14	22	16	16	9.4	7.5	40
7	13	12	14	18	32	13	19	15	11	8.0	16	27
8	13	12	13	17	35	14	24	13	10	7.2	32	22
9	12	13	13	20	31	13	34	13	9.6	6.8	12	18
10	15	13	14	59	29	14	22	12	9.5	6.3	57	16
11	27	11	14	45	28	14	19	11	9.2	6.1	30	14
12	18	12	13	30	53	16	18	11	8.8	6.6	17	13
13	27	11	13	25	59	13	23	11	8.5	18	13	12
14	28	11	45	21	67	13	26	14	8.2	14	11	19
15	18	11	31	19	e40	13	28	11	13	9.6	10	900
16	16	11	22	18	e31	22	56	10	26	8.1	9.2	78
17	16	11	19	18	e25	57	36	12	13	7.1	8.4	44
18	17	10	17	20	30	26	51	11	12	6.6	8.1	34
19	15	10	16	19	28	21	36	10	19	6.3	8.4	130
20	18	10	17	22	22	33	28	12	13	6.4	7.9	47
21	23	11	30	22	20	97	24	25	11	5.9	7.9	33
22	17	11	41	18	19	41	21	24	10	13	7.6	51
23	15	11	28	18	18	30	20	17	9.4	16	7.2	55
24	14	11	24	19	18	24	18	14	8.6	12	7.3	40
25	13	11	20	23	17	21	26	22	8.0	11	7.5	32
26	13	74	18	20	17	20	23	19	7.7	9.8	6.9	80
27	13	68	17	e18	17	21	20	14	7.6	8.5	8.3	35
28	12	31	17	e17	17	22	32	13	9.4	7.4	77	26
29	12	23	16	e16	15	18	45	13	14	6.8	22	22
30	12	19	15	28	---	19	30	12	10	6.5	15	21
31	12	---	14	48	---	18	---	11	---	7.9	16	---
TOTAL	534	508	594	715	871	699	844	466	339.3	269.3	494.1	2160
MEAN	17.2	16.9	19.2	23.1	30.0	22.5	28.1	15.0	11.3	8.69	15.9	72.0
MAX	37	74	45	59	67	97	56	25	26	18	77	900
MIN	12	10	13	14	15	13	16	10	7.6	5.9	6.9	12
CFSM	.84	.82	.93	1.12	1.46	1.09	1.37	.73	.55	.42	.77	3.50
IN.	.96	.92	1.07	1.29	1.57	1.26	1.52	.84	.61	.49	.89	3.90

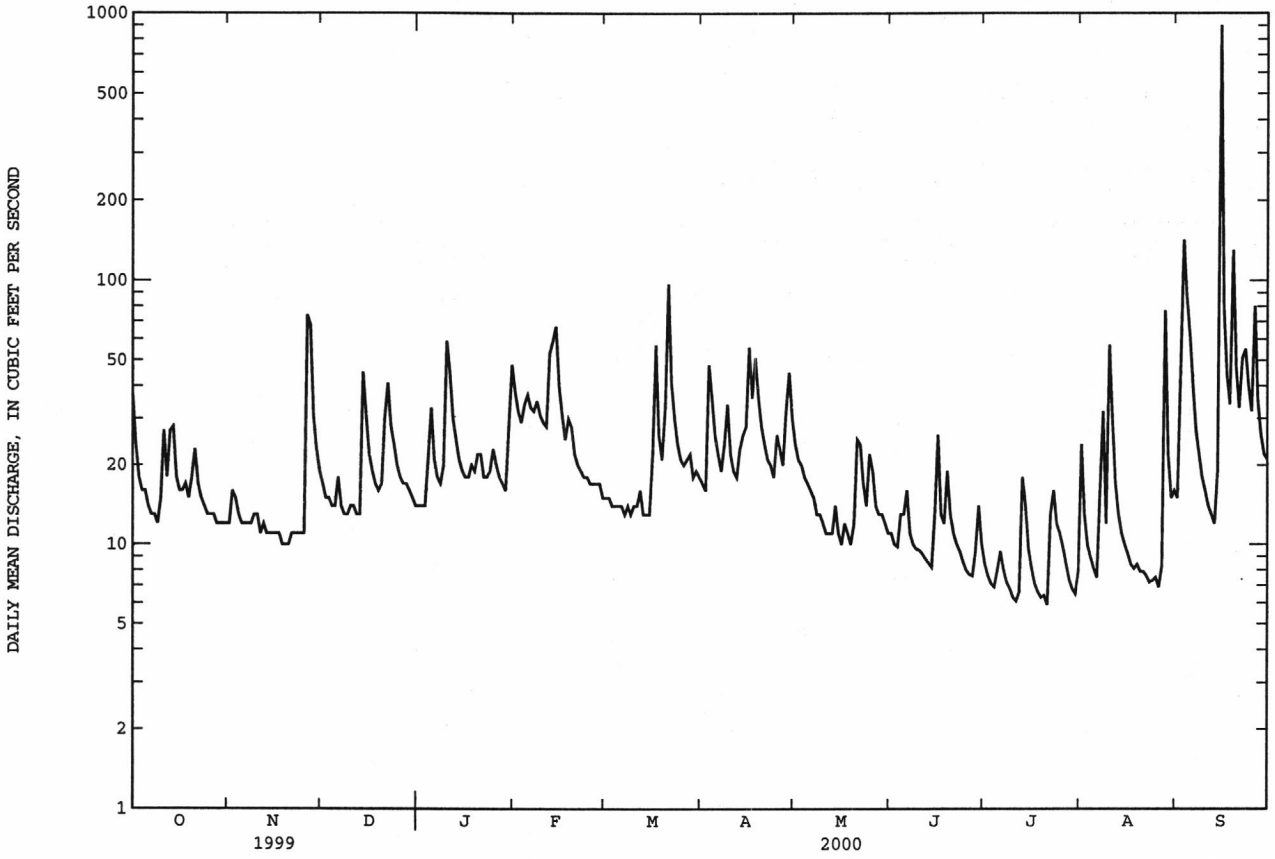
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2000, BY WATER YEAR (WY)

MEAN	18.5	17.5	23.4	30.8	35.2	37.1	29.9	23.3	19.0	19.1	16.9	19.3
MAX	80.2	40.4	48.7	82.0	78.7	102	75.8	58.9	74.4	152	62.0	100
(WY)	1991	1986	1963	1978	1979	1975	1987	1991	1982	1984	1978	1996
MIN	5.90	7.21	8.67	8.52	13.5	12.4	9.79	8.19	5.03	3.64	5.88	3.39
(WY)	1968	1968	1956	1956	1968	1967	1967	1986	1986	1977	1977	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1956 - 2000	
ANNUAL TOTAL	7173.3		8493.7			
ANNUAL MEAN	19.7		23.2		24.1	
HIGHEST ANNUAL MEAN					42.7	1984
LOWEST ANNUAL MEAN					11.7	1967
HIGHEST DAILY MEAN	256	Apr 30	900	Sep 15	1250	Jul 28 1984
LOWEST DAILY MEAN	3.4	Aug 13	5.9	Jul 21	1.7	Aug 7 1977
ANNUAL SEVEN-DAY MINIMUM	4.0	Aug 7	7.1	Jul 15	2.3	Sep 29 1968
INSTANTANEOUS PEAK FLOW			2050	Sep 15	3950*	Oct 10 1959
INSTANTANEOUS PEAK STAGE			11.50	Sep 15	12.41	Sep 22 1979
INSTANTANEOUS LOW FLOW			5.3	Jul 21*	1.2	Aug 7 1977
ANNUAL RUNOFF (CFSM)	.95		1.13		1.17	
ANNUAL RUNOFF (INCHES)	12.95		15.34		15.89	
10 PERCENT EXCEEDS	30		37		39	
50 PERCENT EXCEEDS	14		16		15	
90 PERCENT EXCEEDS	7.4		8.4		7.0	

e Estimated.
* See REMARKS.

02093800 REEDY FORK NEAR OAK RIDGE, NC--Continued



0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC

LOCATION.--Lat 36°08'24", long 79°54'50", Guilford County, Hydrologic Unit 03030002, on left bank downstream at Fleming Road and 0.5 mi above Lake Higgins in Greensboro.

DRAINAGE AREA.--7.42 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 771.84 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JULY 1999 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	39	1.2	9.4
2	---	---	---	---	---	---	---	---	---	24	2.4	8.7
3	---	---	---	---	---	---	---	---	---	5.9	2.8	8.1
4	---	---	---	---	---	---	---	---	---	3.4	3.0	8.2
5	---	---	---	---	---	---	---	---	---	2.3	2.8	74
6	---	---	---	---	---	---	---	---	---	1.8	3.3	38
7	---	---	---	---	---	---	---	---	---	14	3.3	21
8	---	---	---	---	---	---	---	---	---	13	3.4	12
9	---	---	---	---	---	---	---	---	---	3.8	4.4	14
10	---	---	---	---	---	---	---	---	---	6.0	3.9	15
11	---	---	---	---	---	---	---	---	---	9.8	3.5	10
12	---	---	---	---	---	---	---	---	---	8.8	3.2	8.9
13	---	---	---	---	---	---	---	---	---	20	3.2	8.4
14	---	---	---	---	---	---	---	---	---	7.3	7.4	7.8
15	---	---	---	---	---	---	---	---	---	4.1	12	37
16	---	---	---	---	---	---	---	---	---	2.7	4.0	60
17	---	---	---	---	---	---	---	---	---	2.2	3.3	20
18	---	---	---	---	---	---	---	---	---	1.9	3.2	12
19	---	---	---	---	---	---	---	---	---	1.6	3.3	11
20	---	---	---	---	---	---	---	---	---	1.8	11	9.4
21	---	---	---	---	---	---	---	---	---	2.6	5.8	12
22	---	---	---	---	---	---	---	---	---	15	4.4	12
23	---	---	---	---	---	---	---	---	---	3.6	3.9	9.1
24	---	---	---	---	---	---	---	---	---	2.3	3.9	8.1
25	---	---	---	---	---	---	---	---	---	1.8	28	7.5
26	---	---	---	---	---	---	---	---	---	1.4	22	7.2
27	---	---	---	---	---	---	---	---	---	1.2	68	15
28	---	---	---	---	---	---	---	---	---	1.1	24	51
29	---	---	---	---	---	---	---	---	---	8.8	20	36
30	---	---	---	---	---	---	---	---	---	4.4	15	49
31	---	---	---	---	---	---	---	---	---	1.5	11	---
TOTAL	---	---	---	---	---	---	---	---	---	217.1	290.6	599.8
MEAN	---	---	---	---	---	---	---	---	---	7.00	9.37	20.0
MAX	---	---	---	---	---	---	---	---	---	39	68	74
MIN	---	---	---	---	---	---	---	---	---	1.1	1.2	7.2

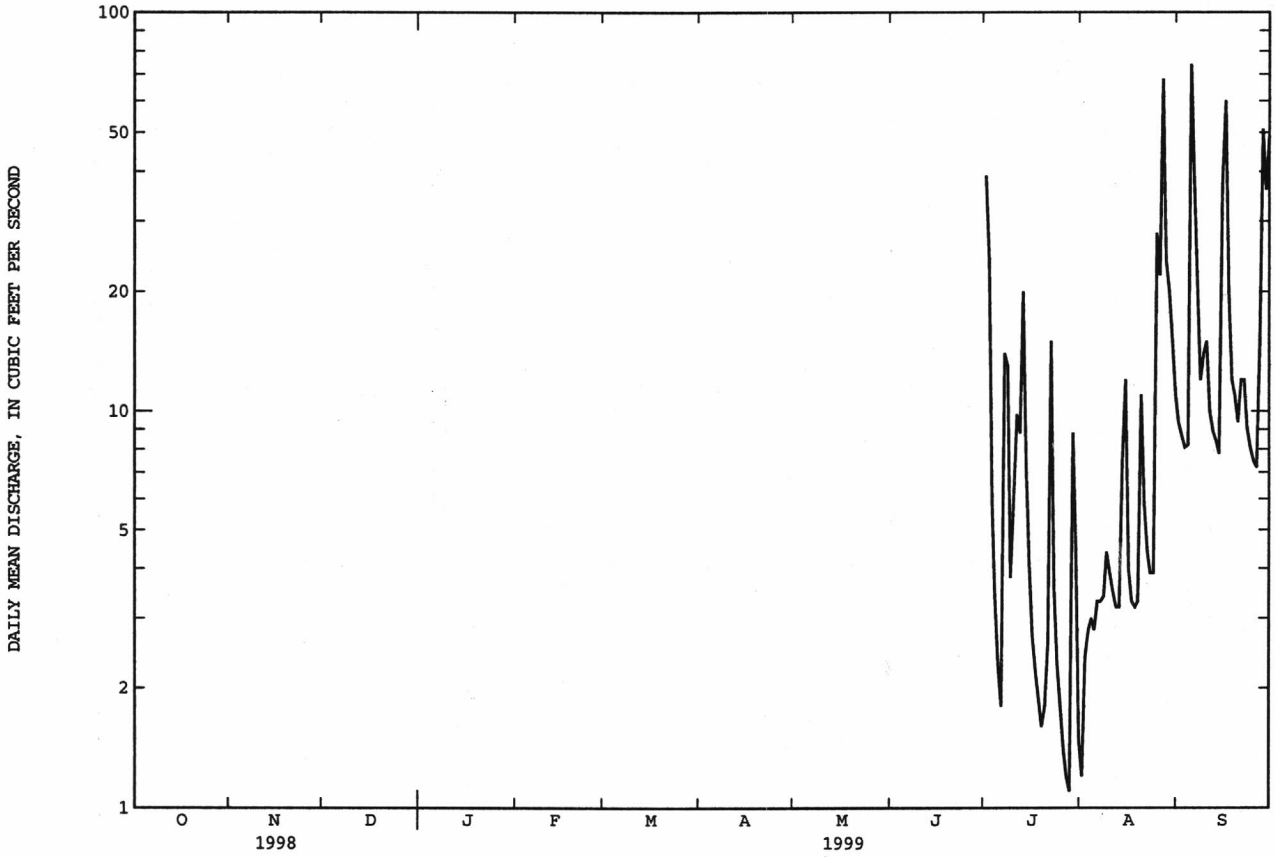
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD JULY TO SEPTEMBER 1999

MEAN	---	---	---	---	---	---	---	---	---	7.00	9.37	20.0
MAX	---	---	---	---	---	---	---	---	---	7.00	9.37	20.0
(WY)	---	---	---	---	---	---	---	---	---	1999	1999	1999
MIN	---	---	---	---	---	---	---	---	---	7.00	9.37	20.0
(WY)	---	---	---	---	---	---	---	---	---	1999	1999	1999

SUMMARY STATISTICS FOR 1999 PERIOD JULY TO SEPTEMBER 1999

HIGHEST DAILY MEAN	74	Sep 5
LOWEST DAILY MEAN	1.1	Jul 28
ANNUAL SEVEN-DAY MINIMUM	2.4	Jul 15
INSTANTANEOUS PEAK FLOW	155	Aug 27
INSTANTANEOUS PEAK STAGE	5.96	Aug 27
INSTANTANEOUS LOW FLOW	NOT DETERMINED	

0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC--Continued



0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	4.2	4.6	3.5	13	1.3	2.7	9.0	2.6	3.0	9.9	37
2	6.8	9.0	4.5	3.6	8.1	1.2	2.8	8.3	2.4	2.6	5.4	e69
3	5.6	6.9	4.5	3.5	7.5	1.1	21	8.7	4.6	2.3	3.4	e82
4	5.8	5.2	4.5	16	9.9	1.1	6.2	7.1	8.8	2.0	2.8	70
5	6.0	5.2	4.8	10	8.3	1.0	3.6	6.2	4.5	3.1	2.6	35
6	5.2	5.0	9.0	4.1	6.2	1.0	2.8	5.5	5.5	4.0	2.4	26
7	4.7	5.2	5.3	3.3	6.2	.89	2.5	5.0	3.6	3.0	3.4	20
8	4.6	5.1	4.8	2.9	6.1	.81	13	4.7	3.2	2.4	3.4	17
9	4.8	5.2	4.7	12	5.1	.79	8.2	4.4	3.3	2.2	2.6	15
10	7.6	5.0	5.9	38	4.7	.76	3.0	4.2	2.8	1.8	20	13
11	12	5.0	3.9	12	4.6	.76	2.3	4.0	2.3	1.6	5.3	12
12	5.6	5.3	3.1	6.0	38	1.1	2.1	3.7	2.1	2.0	3.0	11
13	23	5.4	3.3	4.5	14	.93	7.1	4.8	1.9	25	2.2	9.8
14	11	4.6	39	3.3	32	.97	5.0	6.7	2.1	7.9	1.9	e14
15	6.0	2.8	9.5	2.8	8.3	.99	12	3.4	5.7	3.9	1.7	e149
16	5.4	2.7	6.4	2.8	4.4	20	31	3.1	10	2.8	1.6	36
17	8.7	2.6	5.1	2.5	3.1	41	8.7	4.8	3.8	2.3	1.4	25
18	7.5	2.7	4.6	4.2	10	6.0	14	3.6	4.8	2.0	2.6	22
19	5.2	2.6	4.4	3.9	4.6	4.1	6.3	2.9	16	2.0	4.1	66
20	13	2.6	5.1	8.4	2.9	19	4.7	8.2	8.5	2.1	2.0	16
21	10	2.6	18	4.7	2.4	32	4.1	17	3.7	1.9	1.8	12
22	4.4	2.8	12	2.9	2.1	7.4	3.6	13	2.9	4.6	1.7	35
23	3.7	2.8	6.3	4.3	2.0	4.7	3.1	5.4	2.6	7.3	1.6	36
24	3.6	2.5	5.2	3.8	1.9	3.7	3.0	3.9	2.2	7.4	1.7	14
25	3.4	2.4	4.4	6.4	1.8	3.3	8.0	14	1.9	7.2	1.6	12
26	3.4	34	4.2	4.5	1.7	3.0	4.1	6.6	1.6	4.7	1.6	36
27	3.4	18	4.1	3.5	1.6	5.3	3.2	3.9	1.8	3.4	5.2	11
28	3.5	7.3	3.8	2.9	1.5	4.4	22	3.7	3.8	2.9	62	7.5
29	3.6	5.5	3.7	2.7	1.3	2.8	27	4.6	19	2.4	27	6.3
30	3.7	4.9	3.6	24	---	3.4	13	3.3	5.2	2.3	12	5.6
31	4.0	---	3.5	28	---	2.9	---	2.8	---	5.4	26	---
TOTAL	209.2	175.1	205.8	235.0	213.3	177.70	250.1	186.5	143.2	127.5	223.9	920.2
MEAN	6.75	5.84	6.64	7.58	7.36	5.73	8.34	6.02	4.77	4.11	7.22	30.7
MAX	23	34	39	38	38	41	31	17	19	25	62	149
MIN	3.4	2.4	3.1	2.5	1.3	.76	2.1	2.8	1.6	1.6	1.4	5.6

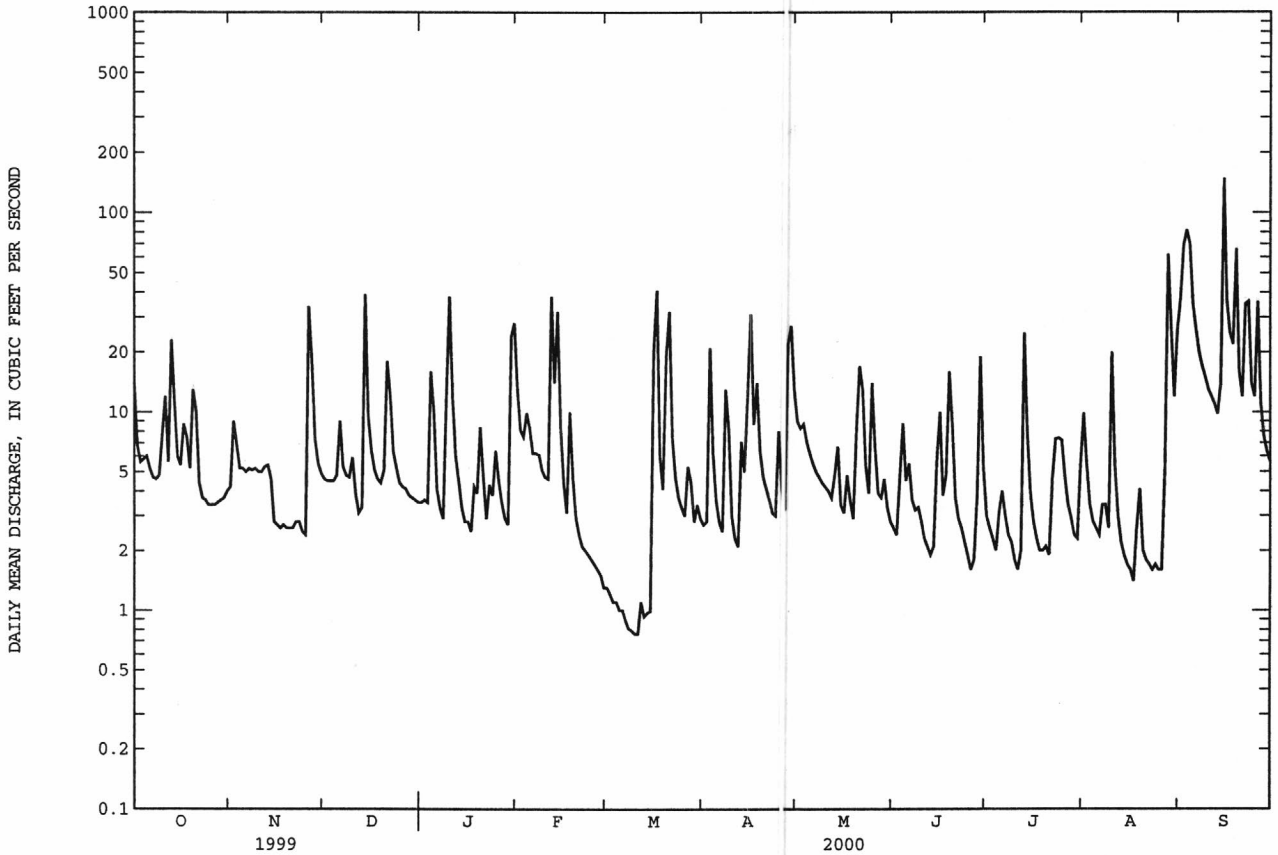
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	6.75	5.84	6.64	7.58	7.36	5.73	8.34	6.02	4.77	5.56	8.30	25.3
MAX	6.75	5.84	6.64	7.58	7.36	5.73	8.34	6.02	4.77	7.00	9.37	30.7
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000
MIN	6.75	5.84	6.64	7.58	7.36	5.73	8.34	6.02	4.77	4.11	7.22	20.0
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000		
ANNUAL TOTAL	3067.50				
ANNUAL MEAN	8.38		8.38		
HIGHEST ANNUAL MEAN			8.38		2000
LOWEST ANNUAL MEAN			8.38		2000
HIGHEST DAILY MEAN	149	Sep 15	149	Sep 15	2000
LOWEST DAILY MEAN	.76	Mar 10	.76	Mar 10	2000
ANNUAL SEVEN-DAY MINIMUM	.86	Mar 5	.86	Mar 5	2000
INSTANTANEOUS PEAK FLOW	NOT DETERMINED		NOT DETERMINED		
INSTANTANEOUS PEAK STAGE	8.96	Sep 15	8.96	Sep 15	2000
INSTANTANEOUS LOW FLOW	NOT DETERMINED		NOT DETERMINED		
10 PERCENT EXCEEDS	19		21		
50 PERCENT EXCEEDS	4.6		4.6		
90 PERCENT EXCEEDS	1.9		1.9		

e Estimated.

0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC--Continued



0209387778 BRUSH CREEK AT FLEMING ROAD AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1999 to September 2000.

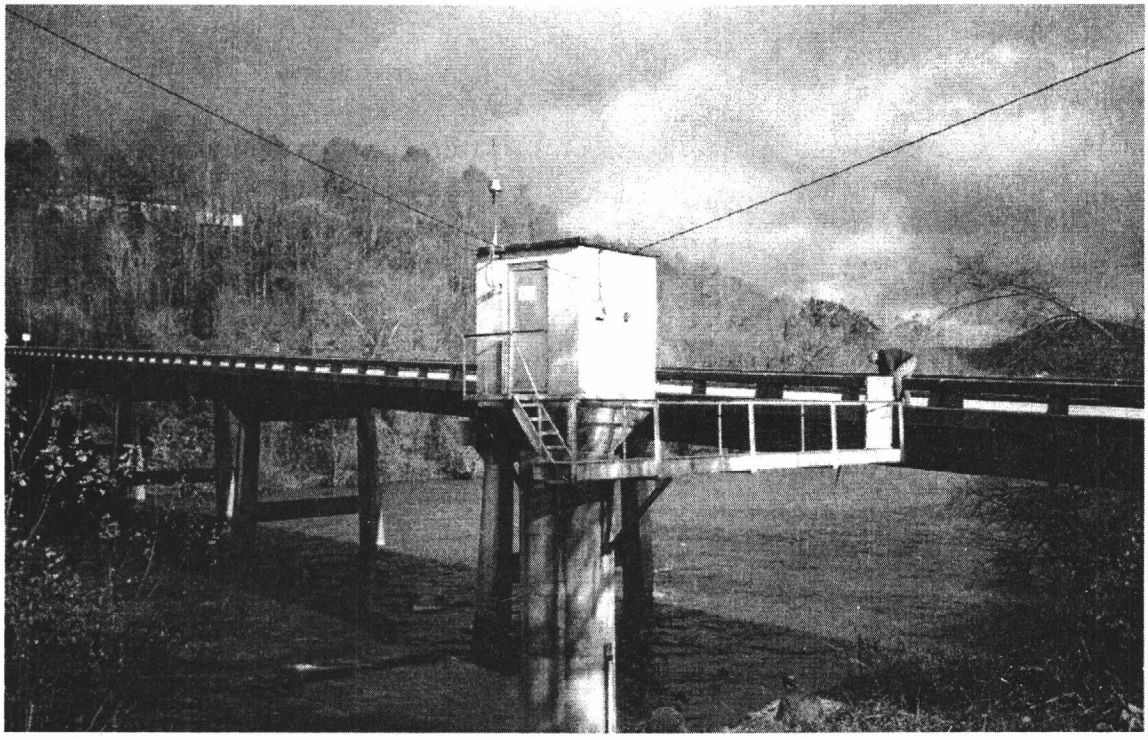
INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JULY 1999 TO SEPTEMBER 1999
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.00	.05	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.20
5	---	---	---	---	---	---	---	---	---	.00	.00	2.72
6	---	---	---	---	---	---	---	---	---	.00	.00	.27
7	---	---	---	---	---	---	---	---	---	---	.00	.01
8	---	---	---	---	---	---	---	---	---	.00	.11	.00
9	---	---	---	---	---	---	---	---	---	.00	.10	.25
10	---	---	---	---	---	---	---	---	---	.53	.00	.00
11	---	---	---	---	---	---	---	---	---	.06	.00	.00
12	---	---	---	---	---	---	---	---	---	.81	.00	.01
13	---	---	---	---	---	---	---	---	---	.13	.00	.00
14	---	---	---	---	---	---	---	---	---	.07	---	.00
15	---	---	---	---	---	---	---	---	---	.00	.01	2.08
16	---	---	---	---	---	---	---	---	---	.00	.01	.31
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	---	.01	.00	.00
19	---	---	---	---	---	---	---	---	---	.00	.00	.00
20	---	---	---	---	---	---	---	---	---	---	---	.00
21	---	---	---	---	---	---	---	---	---	3.49	.02	.42
22	---	---	---	---	---	---	---	---	---	.00	.00	.00
23	---	---	---	---	---	---	---	---	---	.09	.03	.00
24	---	---	---	---	---	---	---	---	---	.89	.15	.00
25	---	---	---	---	---	---	---	---	---	.00	---	.00
26	---	---	---	---	---	---	---	---	---	.00	---	.00
27	---	---	---	---	---	---	---	---	---	.00	.01	1.19
28	---	---	---	---	---	---	---	---	---	.22	.00	.77
29	---	---	---	---	---	---	---	---	---	---	.00	.91
30	---	---	---	---	---	---	---	---	---	.01	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	9.14

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.07	.00	.00	.00	.00	.02	.32	.78
2	.00	.27	.00	.00	.06	.00	.07	.03	.00	.00	.03	1.10
3	.00	.00	.00	.01	.30	.00	.78	.00	---	.00	.01	1.30
4	.10	.00	.00	.70	.00	.00	.06	.00	---	.01	.01	.58
5	.00	.00	.01	.00	.00	.00	.00	.00	.16	.55	.00	.02
6	.00	.00	.25	.00	.00	.00	.00	.00	.16	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	---	.00
8	.00	.00	.00	.00	---	.00	.95	.00	.00	.00	.04	.00
9	.00	.00	.00	.47	.00	.00	.00	.00	.00	.00	.00	.00
10	.45	.00	.17	.77	.00	.00	.00	.00	.00	.00	---	.00
11	.13	.00	.00	.01	.00	.17	.00	.00	.00	.43	.00	.00
12	.00	.00	.00	.00	.79	.00	.00	.00	.00	.50	.00	.00
13	.54	.00	.05	.01	.05	.00	.52	---	.00	1.36	.04	.00
14	.05	.00	.90	.00	.39	.00	.18	.01	---	.00	.00	---
15	.00	.00	.00	.00	.00	.00	---	.00	---	.00	.00	1.32
16	.00	.00	.00	.00	.00	2.39	.63	.00	.13	.00	.00	.00
17	.32	.00	.00	.00	.00	.03	.56	---	.00	.00	.00	.00
18	.00	.00	.00	.00	.38	.00	.11	.01	---	.00	1.29	.86
19	.00	.00	.03	.01	.01	.00	.00	.00	---	.72	.00	.45
20	.59	.00	.08	.49	.00	1.03	.00	---	.00	---	.00	.00
21	.01	.01	.56	.00	.00	.03	.00	.38	.00	.00	.00	.35
22	.00	.01	.01	.00	.00	.00	.00	---	.01	.51	.00	.33
23	.00	.00	.01	.01	.00	.00	.00	.00	.00	.34	.00	.28
24	.00	.01	.00	.10	.00	.00	.13	.00	.00	.10	.15	---
25	.00	.00	.00	.00	.00	.05	.34	---	.11	.18	.02	.69
26	.00	1.24	.00	.00	.00	.00	.18	.00	.06	.06	.00	.00
27	.00	.00	.00	.00	.02	.37	.00	.00	---	.00	1.39	.00
28	.00	.00	.00	.00	.00	.00	.95	.07	---	.08	2.88	.00
29	.00	.00	.00	.00	.00	.00	1.30	.01	1.23	.00	.00	.00
30	.00	.00	.00	.50	---	.13	.00	.00	.00	.00	.09	.00
31	.00	---	.00	.06	---	.00	---	.00	---	---	.40	---
TOTAL	2.19	1.54	2.07	3.14	---	4.20	---	---	---	---	---	---



USGS gaging station at French Broad River at Asheville.

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC

LOCATION.--Lat 36°08'12", long 79°51'40", Guilford County, Hydrologic Unit 03030002, on right bank, 300 ft downstream of U.S. Highway 220 bridge on gravel road to city lift station, 2.9 mi above Lake Brandt dam and 6.3 mi northwest of Greensboro.

DRAINAGE AREA.--15.9 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 13, 1999.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JUNE 1999 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	3.6	34	3.9	e6.3
2	---	---	---	---	---	---	---	---	3.5	27	3.5	e5.1
3	---	---	---	---	---	---	---	---	3.8	9.7	3.0	e4.4
4	---	---	---	---	---	---	---	---	3.8	6.6	2.8	e4.1
5	---	---	---	---	---	---	---	---	3.6	5.3	2.6	104
6	---	---	---	---	---	---	---	---	3.4	4.2	2.5	57
7	---	---	---	---	---	---	---	---	2.9	19	2.0	e22
8	---	---	---	---	---	---	---	---	2.9	16	2.1	e13
9	---	---	---	---	---	---	---	---	3.0	6.5	3.4	e8.5
10	---	---	---	---	---	---	---	---	8.2	8.9	2.8	e10
11	---	---	---	---	---	---	---	---	11	15	2.1	e6.9
12	---	---	---	---	---	---	---	---	4.4	15	1.5	e6.0
13	---	---	---	---	---	---	---	---	3.7	31	1.3	e5.6
14	---	---	---	---	---	---	---	---	3.4	16	11	e6.7
15	---	---	---	---	---	---	---	---	14	11	30	e31
16	---	---	---	---	---	---	---	---	20	8.0	6.2	80
17	---	---	---	---	---	---	---	---	17	6.9	3.9	29
18	---	---	---	---	---	---	---	---	6.2	6.3	3.3	17
19	---	---	---	---	---	---	---	---	4.4	5.9	2.8	9.2
20	---	---	---	---	---	---	---	---	28	24	18	7.6
21	---	---	---	---	---	---	---	---	13	19	7.1	11
22	---	---	---	---	---	---	---	---	7.3	37	3.6	12
23	---	---	---	---	---	---	---	---	5.3	11	3.0	6.8
24	---	---	---	---	---	---	---	---	4.3	18	2.8	6.5
25	---	---	---	---	---	---	---	---	5.8	14	44	6.4
26	---	---	---	---	---	---	---	---	5.4	7.8	46	6.3
27	---	---	---	---	---	---	---	---	4.4	6.1	93	26
28	---	---	---	---	---	---	---	---	4.2	5.3	31	122
29	---	---	---	---	---	---	---	---	3.3	16	e18	85
30	---	---	---	---	---	---	---	---	8.5	9.5	e11	83
31	---	---	---	---	---	---	---	---	---	4.9	e7.9	---
TOTAL	---	---	---	---	---	---	---	---	212.3	424.9	376.1	798.4
MEAN	---	---	---	---	---	---	---	---	7.08	13.7	12.1	26.6
MAX	---	---	---	---	---	---	---	---	28	37	93	122
MIN	---	---	---	---	---	---	---	---	2.9	4.2	1.3	4.1
CFSM	---	---	---	---	---	---	---	---	.45	.86	.76	1.67
IN.	---	---	---	---	---	---	---	---	.50	.99	.88	1.87

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD JUNE TO SEPTEMBER 1999

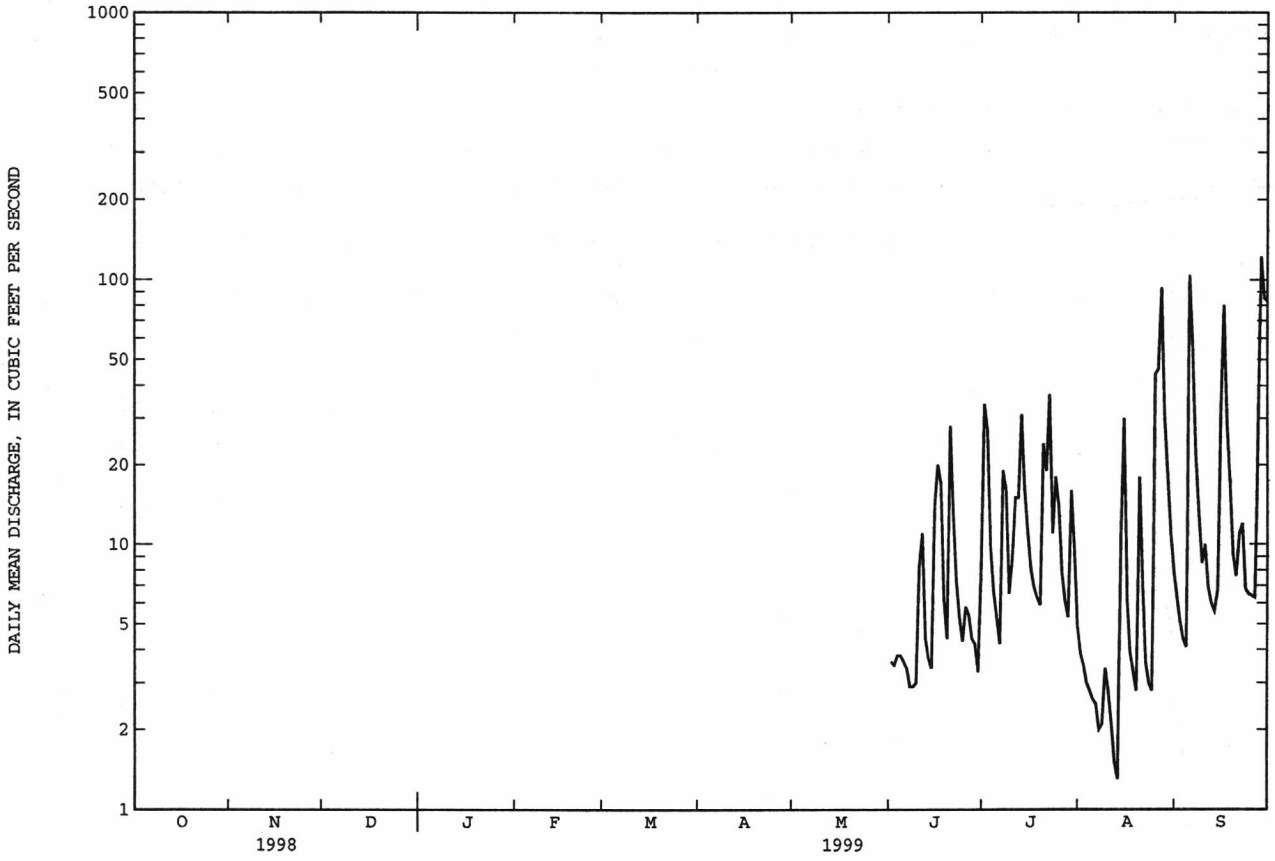
MEAN	---	---	---	---	---	---	---	---	7.08	13.7	12.1	26.6
MAX	---	---	---	---	---	---	---	---	7.08	13.7	12.1	26.6
(WY)	---	---	---	---	---	---	---	---	1999	1999	1999	1999
MIN	---	---	---	---	---	---	---	---	7.08	13.7	12.1	26.6
(WY)	---	---	---	---	---	---	---	---	1999	1999	1999	1999

SUMMARY STATISTICS FOR PERIOD JUNE TO SEPTEMBER 1999

HIGHEST DAILY MEAN	122	Sep 28
LOWEST DAILY MEAN	1.3	Aug 13
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 7
INSTANTANEOUS PEAK FLOW	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE	5.25	Aug 26
INSTANTANEOUS LOW FLOW	1.2*	Aug 12

e Estimated.
* See REMARKS.

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC--Continued



0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e25	e6.4	5.5	8.0	38	8.1	9.9	15	5.4	9.1	34	e186
2	e13	e14	5.4	8.0	31	8.0	11	11	5.0	7.1	12	e349
3	e8.1	e8.0	6.4	8.1	31	7.8	55	13	6.1	5.9	6.6	e181
4	e7.1	e6.2	5.6	23	36	7.9	27	9.1	9.6	5.1	5.3	60
5	e6.3	e5.9	4.9	18	31	8.2	16	8.2	7.9	7.8	6.0	38
6	e6.1	e5.8	15	7.5	26	8.4	13	7.7	9.0	14	4.0	28
7	e5.8	e5.8	5.9	8.4	26	8.3	11	7.3	5.5	8.2	3.5	23
8	e5.6	e5.7	5.8	5.9	24	8.4	41	5.9	4.6	4.8	3.6	20
9	e5.3	e6.9	4.9	29	20	8.4	32	6.1	4.1	4.1	3.2	18
10	e6.7	e6.2	12	119	19	8.1	18	5.6	3.8	3.4	36	16
11	e23	e6.1	6.9	37	19	10	14	4.7	3.3	2.7	13	8.3
12	e13	e5.9	5.1	23	99	10	12	4.3	2.9	3.0	7.0	7.4
13	64	e5.7	5.0	19	40	6.3	31	5.3	2.6	43	5.1	7.2
14	e23	e5.3	86	13	86	5.9	26	6.1	3.1	11	4.2	15
15	e11	e5.1	26	10	33	5.9	50	5.8	5.8	6.9	3.5	e557
16	e8.9	e5.0	22	9.8	24	49	106	3.9	6.4	5.3	2.9	52
17	e12	e4.7	14	9.0	19	114	35	8.9	3.1	4.3	2.5	41
18	e9.0	5.1	11	15	43	26	45	4.7	15	3.6	13	40
19	e10	5.3	10	14	27	17	26	4.2	69	3.1	8.7	e174
20	e50	5.8	14	28	19	57	19	15	26	3.8	3.7	43
21	e28	5.6	38	19	15	90	16	23	11	2.4	3.2	43
22	e12	5.9	28	11	13	30	14	20	7.3	3.2	2.7	125
23	e9.1	5.8	14	17	12	21	13	7.3	5.9	8.6	2.4	96
24	e7.7	5.7	10	15	12	17	12	5.4	5.0	12	3.8	46
25	e7.2	5.3	9.0	20	12	14	28	28	8.2	10	2.8	44
26	e7.0	54	8.7	19	11	14	17	14	6.5	9.2	2.2	62
27	e6.8	26	7.5	14	10	18	13	8.5	5.9	5.4	4.7	35
28	e6.0	11	7.2	13	9.4	16	66	7.7	17	4.5	e173	27
29	e6.6	7.2	7.4	11	8.3	11	58	9.8	92	3.9	27	23
30	e6.4	6.0	6.6	68	---	15	27	6.5	21	3.4	14	21
31	e5.9	---	7.0	60	---	12	---	6.3	---	9.1	29	---
TOTAL	415.6	257.4	414.8	679.7	793.7	640.7	861.9	288.3	378.0	227.9	442.6	2385.9
MEAN	13.4	8.58	13.4	21.9	27.4	20.7	28.7	9.30	12.6	7.35	14.3	79.5
MAX	64	54	86	119	99	114	106	28	92	43	173	557
MIN	5.3	4.7	4.9	5.9	8.3	5.9	9.9	3.9	2.6	2.4	2.2	7.2
CFSM	.84	.54	.84	1.38	1.72	1.30	1.81	.58	.79	.46	.90	5.00
IN.	.97	.60	.97	1.59	1.86	1.50	2.02	.67	.88	.53	1.04	5.58

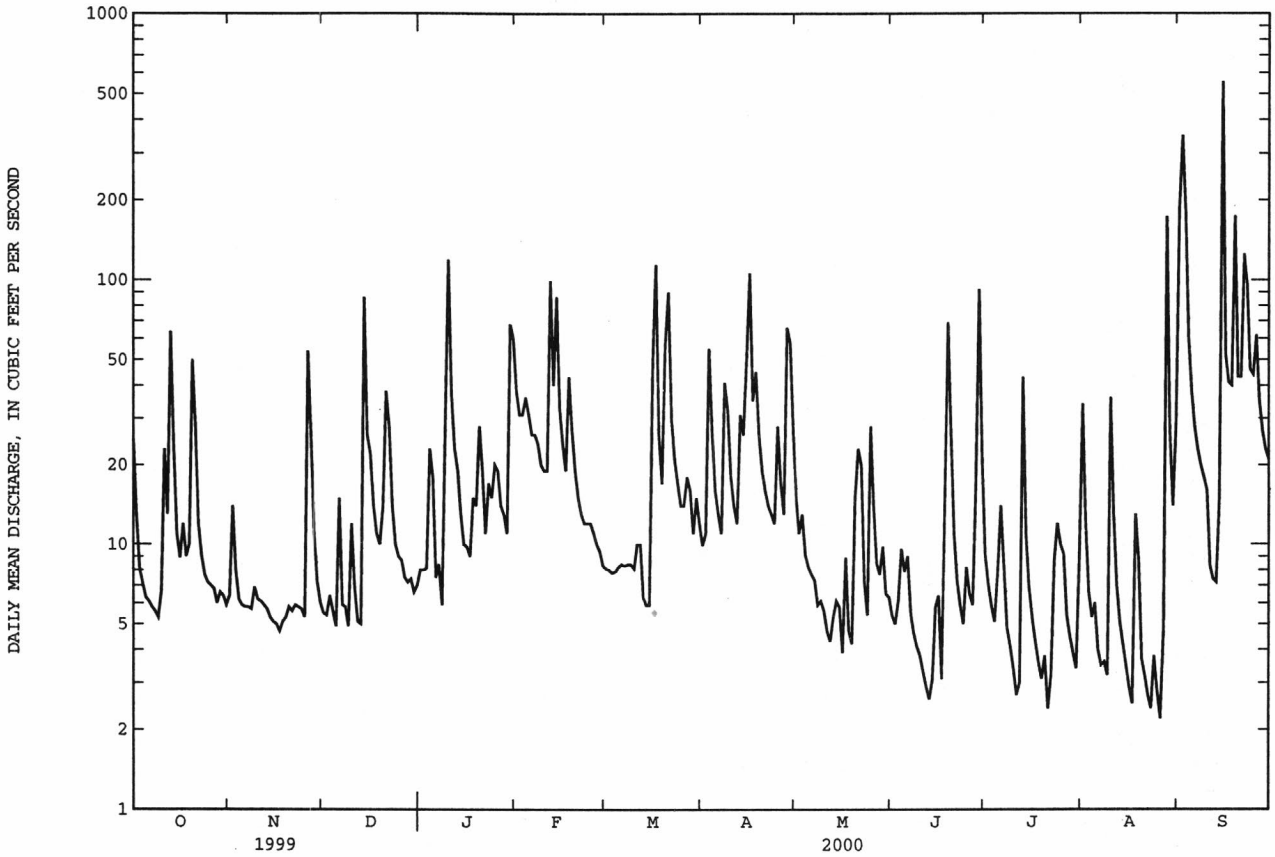
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	13.4	8.58	13.4	21.9	27.4	20.7	28.7	9.30	9.84	10.5	13.2	53.1
MAX	13.4	8.58	13.4	21.9	27.4	20.7	28.7	9.30	12.6	13.7	14.3	79.5
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	2000
MIN	13.4	8.58	13.4	21.9	27.4	20.7	28.7	9.30	7.08	7.35	12.1	26.6
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			7786.5			
ANNUAL MEAN			21.3		21.3	
HIGHEST ANNUAL MEAN					21.3	2000
LOWEST ANNUAL MEAN					21.3	2000
HIGHEST DAILY MEAN	122	Sep 28	557	Sep 15	557	Sep 15 2000
LOWEST DAILY MEAN	1.3	Aug 13	2.2	Aug 26	1.3	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 7	3.0	Aug 20	2.2	Aug 7 1999
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			10.64	Sep 15	10.64	Sep 15 2000
INSTANTANEOUS LOW FLOW			1.9	Aug 27	1.2*	Aug 12 1999
ANNUAL RUNOFF (CFSM)			1.34		1.34	
ANNUAL RUNOFF (INCHES)			18.22		18.18	
10 PERCENT EXCEEDS	28		43		41	
50 PERCENT EXCEEDS	6.9		9.9		9.0	
90 PERCENT EXCEEDS	3.5		4.3		3.6	

e Estimated.
* See REMARKS.

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC--Continued



0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--August 1999 to September 2000.

ISTRUMENTATION.--Tipping-bucket raingage and data collection platform.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD AUGUST 1999 SEPTEMBER 1999
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	.00	.00
2	---	---	---	---	---	---	---	---	---	---	.01	.00
3	---	---	---	---	---	---	---	---	---	---	.00	.00
4	---	---	---	---	---	---	---	---	---	---	.00	.25
5	---	---	---	---	---	---	---	---	---	---	.00	2.75
6	---	---	---	---	---	---	---	---	---	---	.00	.15
7	---	---	---	---	---	---	---	---	---	---	.00	.03
8	---	---	---	---	---	---	---	---	---	---	.09	.02
9	---	---	---	---	---	---	---	---	---	---	.11	.52
10	---	---	---	---	---	---	---	---	---	---	.00	.03
11	---	---	---	---	---	---	---	---	---	---	.00	.01
12	---	---	---	---	---	---	---	---	---	---	.00	.00
13	---	---	---	---	---	---	---	---	---	---	.00	.00
14	---	---	---	---	---	---	---	---	---	---	1.44	.00
15	---	---	---	---	---	---	---	---	---	---	.00	2.61
16	---	---	---	---	---	---	---	---	---	---	.02	.43
17	---	---	---	---	---	---	---	---	---	---	.00	.00
18	---	---	---	---	---	---	---	---	---	---	.00	.00
19	---	---	---	---	---	---	---	---	---	---	.00	.00
20	---	---	---	---	---	---	---	---	---	---	1.01	.00
21	---	---	---	---	---	---	---	---	---	---	.00	.16
22	---	---	---	---	---	---	---	---	---	---	.01	.01
23	---	---	---	---	---	---	---	---	---	---	.00	.00
24	---	---	---	---	---	---	---	---	---	---	.00	.00
25	---	---	---	---	---	---	---	---	---	---	.95	.00
26	---	---	---	---	---	---	---	---	---	---	3.12	.00
27	---	---	---	---	---	---	---	---	---	---	.09	1.04
28	---	---	---	---	---	---	---	---	---	---	.00	2.12
29	---	---	---	---	---	---	---	---	---	---	.01	1.28
30	---	---	---	---	---	---	---	---	---	---	.00	.01
31	---	---	---	---	---	---	---	---	---	---	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	---	6.86	11.42

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.21	.00	.00	.00	.00	.00	.20	3.95
2	.00	.51	.00	.00	.21	.00	.07	.00	.00	.00	.03	.43
3	.01	.01	.00	.00	.29	.00	.69	.00	.17	.00	.01	.25
4	.10	.03	.00	.48	.03	.00	.05	.00	.01	.00	.01	.33
5	.00	.00	.01	.00	.00	.00	.00	.00	.19	.37	.01	.00
6	.00	.00	.24	.00	.00	.00	.00	.00	.10	.11	.00	.00
7	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.29	.00
8	.00	.00	.00	.00	.01	.00	.82	.00	.00	.00	.00	.00
9	.00	.00	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00
10	.26	.00	.19	.76	.02	.00	.01	.00	.00	.00	1.84	.00
11	.12	.00	.00	.00	.01	.13	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.01	.80	.00	.00	.00	.00	.00	.00	.00
13	.61	.00	.06	.01	.04	.00	.81	1.05	.00	1.25	.03	.00
14	.00	.00	.72	.01	.45	.00	.19	.00	.46	.00	.00	3.02
15	.00	.00	.00	.00	.01	.00	1.12	.00	.46	.00	.00	2.21
16	.00	.00	.00	.04	.01	1.63	.01	.00	.02	.01	.00	.00
17	.33	.00	.00	.00	.00	.04	.32	.52	.00	.00	.00	.00
18	.01	.00	.00	.00	.45	.01	.16	.00	1.04	.00	2.22	.95
19	.02	.00	.05	.02	.02	.01	.00	.00	3.09	.36	.01	.44
20	.71	.00	.11	.50	.00	1.10	.00	1.19	.00	.01	.00	.00
21	.03	.00	.54	.00	.00	.08	.00	.06	.00	.00	.00	.38
22	.01	.03	.01	.00	.00	.00	.00	.30	.00	.29	.00	.42
23	.01	.00	.00	.01	.00	.00	.00	.00	.00	.24	.00	.35
24	.01	.00	.00	.12	.00	.00	.10	.00	.00	.12	.00	.00
25	.00	.00	.00	.01	.00	.02	.44	.84	.16	.09	.00	.42
26	.00	.96	.00	.00	.00	.00	.12	.00	.00	.03	.00	.02
27	.00	.00	.00	.00	.02	.30	.00	.00	.25	.00	.79	.00
28	.00	.00	.00	.00	.00	.01	1.12	.07	1.60	.00	2.94	.00
29	.00	.00	.00	.00	.00	.00	.23	.03	1.38	.00	.00	.00
30	.00	.00	.00	.34	---	.13	.01	.00	.00	.00	.08	.00
31	.00	---	.00	.19	---	.01	---	.00	---	1.41	.43	---
TOTAL	2.23	1.54	1.93	3.00	2.59	3.47	6.27	4.06	8.93	4.29	8.89	13.17

USGS water-quality monitor at the Neuse River channel marker 38.

02094500 REEDY FORK NEAR GIBSONVILLE, NC

LOCATION.--Lat 36°10'31", long 79°37'01", Guilford County, Hydrologic Unit 03030002, on right bank 0.2 mi downstream of Huffines Mill on Secondary Road 2719, 1.2 mi upstream from Buffalo Creek, and 6 mi northwest of Gibsonville.

DRAINAGE AREA.--131 mi^2.

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

REVISED RECORDS.--WSP 1303: 1929-40 (monthly and yearly runoff). WSP 1383: 1929-30, 1933(M), 1934, 1937(M), 1939-42(M), 1948. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and rock-masonry control. Datum of gage is 626.88 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated since 1923 by Lake Brandt (station 02094117), 14 mi upstream; since 1957 by Lake Higgins (station 02093981) on Brush Creek, a tributary to Lake Brandt; since 1943 by Richland Lake 12 mi. upstream from station; and since 1968 by Lake Townsend (station 02094305), 9 mi upstream from station. City of Greensboro diverted a daily average of 22.0 ft^3/s from Lake Brandt and a daily average of 36.0 ft^3/s from Lake Townsend for municipal water supply. Prior to regulation, maximum discharge: 11,600 ft^3/s, Sept. 25, 1947; gage height: 20.77 ft; minimum discharge not determined. Minimum discharge for regulated period also occurred July 30, Aug. 6, 7, 1977. Minimum for current water year also occurred June 14.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 17.90 ft, from information by local resident; discharge, 8,640 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	624	e17	e33	e24	665	22	24	105	11	22	14	36
2	70	e34	e69	e20	133	23	29	83	11	17	28	141
3	25	e29	e32	e17	48	20	150	63	11	14	18	326
4	17	e21	e26	16	50	18	468	51	11	12	13	857
5	17	e19	e21	187	48	19	49	43	12	12	12	426
6	15	e24	e76	39	42	20	32	37	13	12	11	62
7	14	e18	e32	17	43	18	27	29	12	14	9.8	40
8	12	e17	e20	13	69	18	30	26	11	13	9.3	28
9	11	e18	e15	15	67	21	73	24	11	11	8.8	24
10	11	e17	e38	421	39	17	69	20	11	10	27	19
11	20	e17	e32	200	33	16	48	17	9.4	9.9	21	16
12	16	e22	e21	72	279	18	41	15	8.3	10	14	15
13	22	e17	e18	37	659	17	40	14	7.7	42	9.1	13
14	28	e16	e135	137	235	16	63	15	7.6	31	8.6	13
15	17	e20	e60	57	258	16	112	13	11	17	8.1	1020
16	14	e18	e35	23	180	35	489	13	17	13	8.1	2400
17	58	e17	e31	26	41	183	201	15	11	12	8.4	808
18	90	e16	e28	22	46	114	141	16	9.1	10	10	101
19	22	e16	e26	37	85	106	247	13	9.8	9.2	11	120
20	75	e15	e36	139	151	462	70	12	177	9.9	11	334
21	68	e15	e81	75	34	103	67	15	17	11	11	322
22	27	e14	e62	128	27	95	60	20	18	12	9.3	368
23	19	e14	e30	99	27	133	49	16	16	17	9.3	519
24	19	e14	e27	28	26	122	43	14	14	23	10	93
25	18	e13	e24	34	26	78	59	15	12	18	10	111
26	15	e305	e22	35	25	59	74	17	24	18	9.9	78
27	17	e195	e21	144	50	48	74	13	20	17	13	40
28	17	e100	e30	119	139	82	132	12	42	14	196	29
29	14	e60	e24	67	26	64	472	18	111	12	41	23
30	12	e41	e22	57	---	42	112	15	43	9.9	21	21
31	e11	---	e20	204	---	29	---	12	---	9.0	17	---
TOTAL	1415	1159	1147	2509	3551	2034	3545	791	698.9	461.9	607.7	8403
MEAN	45.6	38.6	37.0	80.9	122	65.6	118	25.5	23.3	14.9	19.6	280
MAX	624	305	135	421	665	462	489	105	177	42	196	2400
MIN	11	13	15	13	25	16	24	12	7.6	9.0	8.1	13
CFSM	.35	.29	.28	.62	.93	.50	.90	.19	.18	.11	.15	2.14
IN.	.40	.33	.33	.71	1.01	.58	1.01	.22	.20	.13	.17	2.39

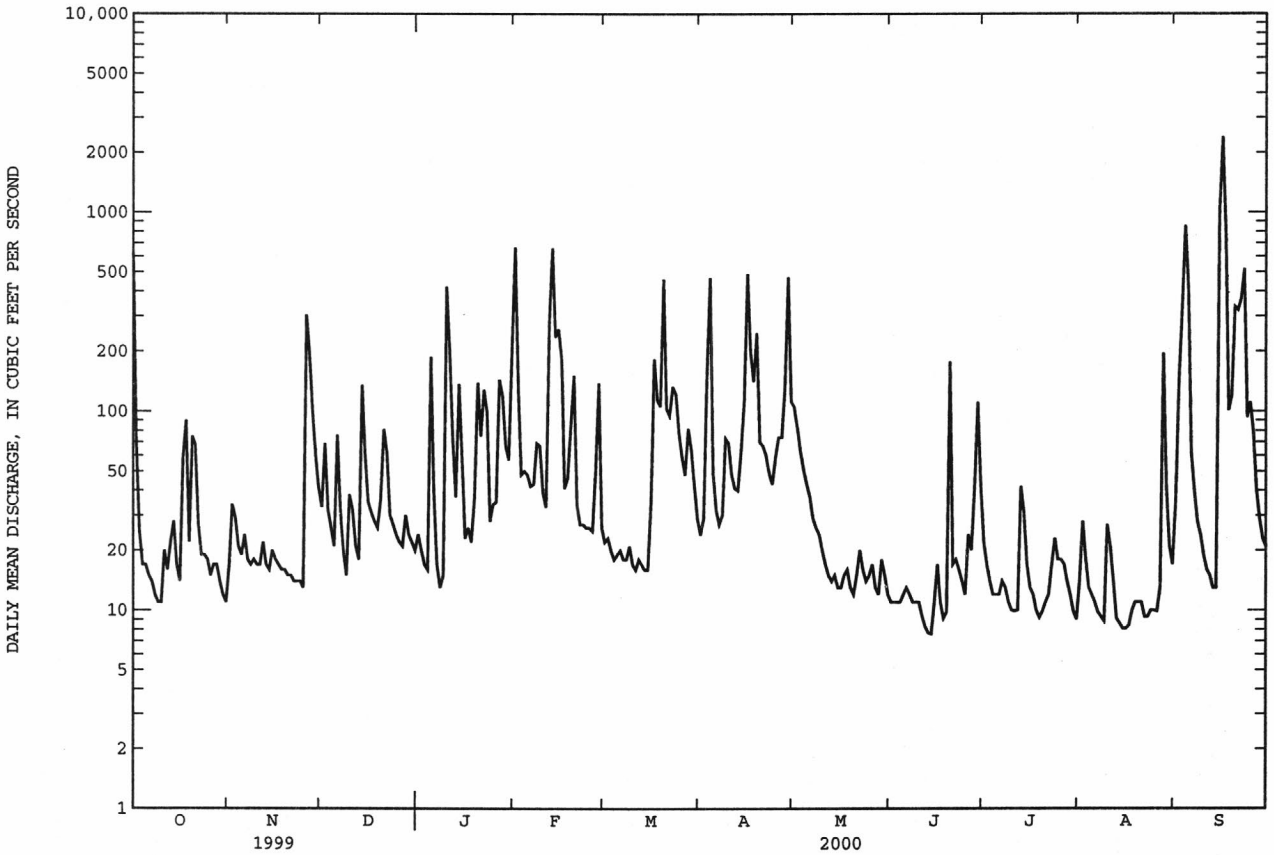
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000*, BY WATER YEAR (WY)

MEAN	53.7	44.8	88.2	181	158	172	143	95.7	63.0	61.5	41.3	74.9
MAX	432	165	221	644	456	613	613	365	477	596	216	518
(WY)	1991	1993	1973	1978	1979	1993	1987	1978	1982	1984	1978	1996
MIN	2.85	6.70	5.97	11.1	19.9	16.4	11.2	7.43	6.08	2.83	2.82	3.31
(WY)	1969	1970	1969	1981	1977	1976	1976	1986	1986	1986	1977	1983

02094500 REEDY FORK NEAR GIBSONVILLE, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000*	
ANNUAL TOTAL	17824.8		26322.5			
ANNUAL MEAN	48.8		71.9		97.8	
HIGHEST ANNUAL MEAN					188	1984
LOWEST ANNUAL MEAN					20.8	1981
HIGHEST DAILY MEAN	1610	Apr 30	2400	Sep 16	5230	Sep 6 1996
LOWEST DAILY MEAN	3.4	Aug 4	7.6	Jun 14	1.2	Oct 3 1968
ANNUAL SEVEN-DAY MINIMUM	4.0	Jul 29	9.0	Aug 13	1.4	Oct 1 1968
INSTANTANEOUS PEAK FLOW			2590	Sep 16	6330	Sep 6 1996
INSTANTANEOUS PEAK STAGE			9.29	Sep 16	15.65	Sep 6 1996
INSTANTANEOUS LOW FLOW			7.5*	Jun 13	1.4*	Jul 29 1977
ANNUAL RUNOFF (CFSM)	.37		.55		.75	
ANNUAL RUNOFF (INCHES)	5.06		7.47		10.14	
10 PERCENT EXCEEDS	69		141		273	
50 PERCENT EXCEEDS	17		23		22	
90 PERCENT EXCEEDS	6.5		11		5.7	

e Estimated.
* Regulated period only (1969-2000). See REMARKS.



02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC

LOCATION.--Lat 36°02'59", long 79°51'22", Guilford County, Hydrologic Unit 03030002, on right bank 300 ft upstream of culvert under Merritt Road, 0.7 mi south of post office at Pomona, and 1.0 mi below South Railway trestle.

DRAINAGE AREA.--7.33 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to September 2000.

GAGE.--Water-stage recorder. Datum of gage is 771.84 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those discharges above 200 ft^3/s and those for estimated daily discharges, which are poor. Minimum discharge for period June to September 1999 also occurred Aug. 12, 13. Minimum discharge for current water year also occurred Aug. 9.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JUNE 1999 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.93	66	.73	.64
2	---	---	---	---	---	---	---	---	.84	12	.60	.56
3	---	---	---	---	---	---	---	---	.71	2.4	.44	.48
4	---	---	---	---	---	---	---	---	.74	1.5	.37	.59
5	---	---	---	---	---	---	---	---	1.2	1.1	.34	168
6	---	---	---	---	---	---	---	---	1.4	.96	.35	47
7	---	---	---	---	---	---	---	---	1.2	20	.36	7.3
8	---	---	---	---	---	---	---	---	.86	3.4	.38	1.8
9	---	---	---	---	---	---	---	---	.95	1.5	1.0	8.4
10	---	---	---	---	---	---	---	---	1.1	2.5	.45	4.3
11	---	---	---	---	---	---	---	---	2.8	3.0	.31	1.4
12	---	---	---	---	---	---	---	---	.90	16	.28	.99
13	---	---	---	---	---	---	---	---	.82	13	.34	.90
14	---	---	---	---	---	---	---	---	.81	4.0	45	.83
15	---	---	---	---	---	---	---	---	9.9	1.4	14	152
16	---	---	---	---	---	---	---	---	36	1.1	2.1	82
17	---	---	---	---	---	---	---	---	7.9	.96	1.0	3.2
18	---	---	---	---	---	---	---	---	1.7	1.0	.65	1.8
19	---	---	---	---	---	---	---	---	1.0	1.0	.49	1.5
20	---	---	---	---	---	---	---	---	24	8.5	36	1.3
21	---	---	---	---	---	---	---	---	3.7	1.7	9.0	7.9
22	---	---	---	---	---	---	---	---	1.6	13	1.3	2.3
23	---	---	---	---	---	---	---	---	1.1	1.2	.80	.96
24	---	---	---	---	---	---	---	---	.91	3.1	.45	.89
25	---	---	---	---	---	---	---	---	2.4	1.8	48	.89
26	---	---	---	---	---	---	---	---	1.3	.77	71	.89
27	---	---	---	---	---	---	---	---	.99	.60	40	41
28	---	---	---	---	---	---	---	---	.92	.54	2.1	87
29	---	---	---	---	---	---	---	---	.77	17	1.2	83
30	---	---	---	---	---	---	---	---	21	2.3	.96	23
31	---	---	---	---	---	---	---	---	---	1.0	.74	---
TOTAL	---	---	---	---	---	---	---	---	130.45	204.33	280.74	732.82
MEAN	---	---	---	---	---	---	---	---	4.35	6.59	9.06	24.4
MAX	---	---	---	---	---	---	---	---	36	66	71	168
MIN	---	---	---	---	---	---	---	---	.71	.54	.28	.48

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD JUNE TO SEPTEMBER 1999

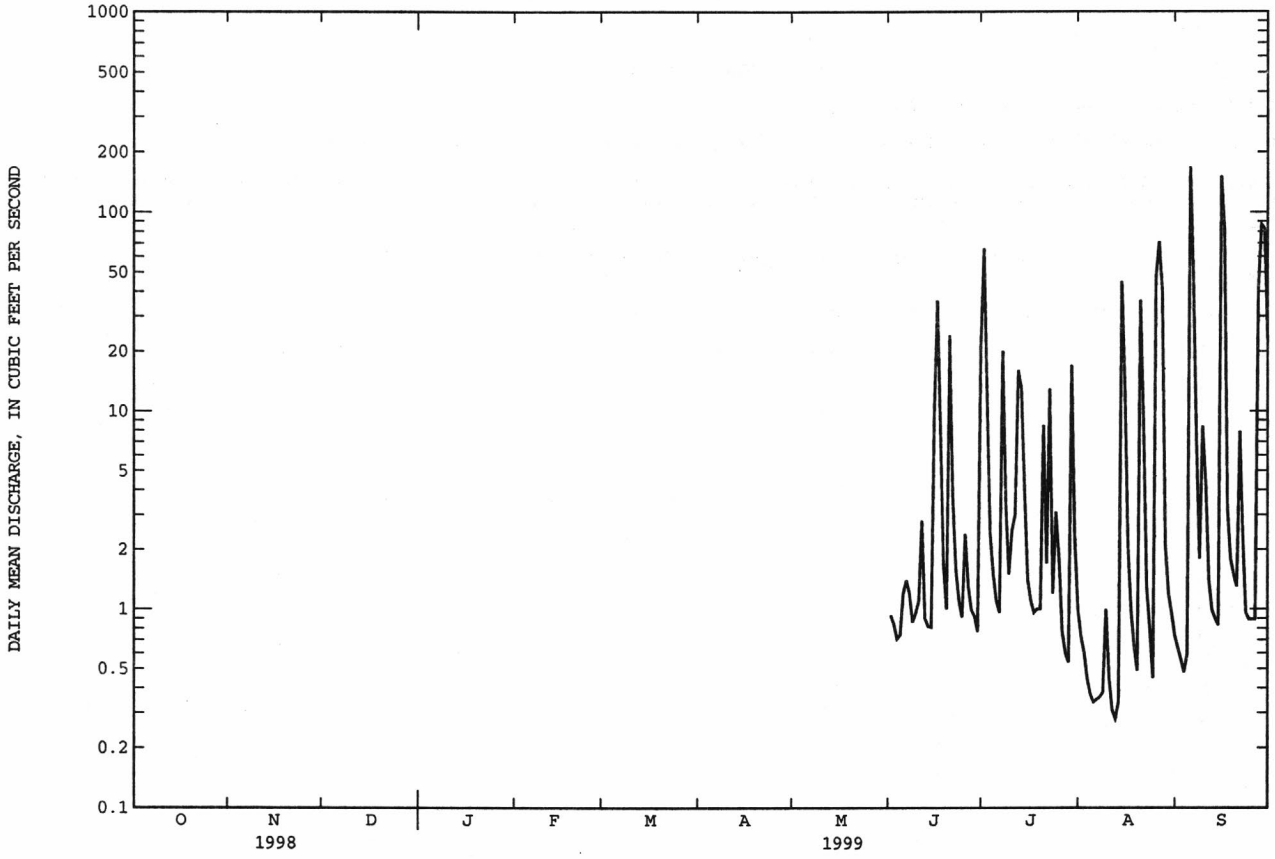
MEAN	---	---	---	---	---	---	---	---	4.35	6.59	9.06	24.4
MAX	---	---	---	---	---	---	---	---	4.35	6.59	9.06	24.4
(WY)	---	---	---	---	---	---	---	---	1999	1999	1999	1999
MIN	---	---	---	---	---	---	---	---	4.35	6.59	9.06	24.4
(WY)	---	---	---	---	---	---	---	---	1999	1999	1999	1999

SUMMARY STATISTICS FOR PERIOD JUNE TO SEPTEMBER 1999

HIGHEST DAILY MEAN	168	Sep 5
LOWEST DAILY MEAN	.28	Aug 12
ANNUAL SEVEN-DAY MINIMUM	.41	Aug 2
INSTANTANEOUS PEAK FLOW	695	Aug 26
INSTANTANEOUS PEAK STAGE	7.68	Aug 26
INSTANTANEOUS LOW FLOW	.27*	Aug 11
10 PERCENT EXCEEDS	39	
50 PERCENT EXCEEDS	1.2	
90 PERCENT EXCEEDS	.48	

* See REMARKS.

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC--Continued



02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.4	1.3	1.4	e15	1.8	1.9	4.0	2.0	2.4	27	159
2	2.3	24	1.2	1.5	9.4	1.8	3.0	3.3	1.4	1.5	13	164
3	2.0	2.0	1.3	1.5	13	1.7	64	4.4	6.3	1.4	1.8	70
4	3.8	1.3	1.3	8.5	12	2.0	9.6	2.4	8.0	2.3	5.7	23
5	2.1	1.3	1.4	2.5	e7.6	1.8	5.2	1.9	6.0	1.3	1.8	11
6	1.6	1.3	15	1.4	e5.6	1.7	2.7	2.0	6.1	5.1	1.4	6.5
7	1.5	1.4	1.7	1.4	5.9	1.6	2.2	2.0	1.2	1.0	.76	5.0
8	1.3	1.3	1.3	1.3	e4.9	1.6	41	2.1	.80	.93	.41	4.5
9	1.3	1.4	1.2	27	4.3	1.6	9.1	2.0	1.1	.96	.39	4.2
10	16	1.4	12	77	3.8	1.5	3.6	2.0	.63	.69	69	3.9
11	9.6	1.3	2.5	6.5	3.6	3.2	2.7	2.1	.61	.62	24	3.7
12	2.2	1.1	1.5	3.6	e90	3.0	2.4	2.0	.62	.72	2.2	3.4
13	42	1.1	2.5	2.6	9.4	1.4	19	2.0	.95	41	1.7	3.4
14	4.0	1.1	53	2.6	59	1.4	7.1	2.5	.65	2.6	.96	21
15	2.0	1.0	3.7	2.3	6.1	1.4	43	1.8	2.9	1.5	.75	209
16	1.8	e1.1	2.4	2.3	3.9	70	34	1.6	9.4	1.1	.62	6.1
17	e14	e1.2	1.8	2.0	2.7	35	12	6.0	.89	.74	.60	3.1
18	2.6	e1.2	1.4	11	32	5.0	17	1.5	17	.64	33	27
19	1.5	e1.4	1.4	5.5	6.4	3.6	6.1	1.3	59	.58	4.1	90
20	31	e1.3	4.3	24	e4.1	63	3.4	15	7.4	.56	1.7	6.3
21	7.5	e1.5	25	4.8	3.6	31	4.1	12	2.0	.56	1.1	46
22	2.5	e1.4	5.5	8.7	e2.3	6.4	2.9	16	1.3	.68	.78	48
23	2.0	e1.3	2.6	11	e2.4	4.2	2.2	3.5	.87	35	.65	66
24	1.7	e1.2	2.1	4.7	2.2	3.1	2.0	1.5	.79	55	3.6	8.8
25	1.6	e1.1	1.7	7.9	2.0	2.7	16	22	69	11	1.5	23
26	1.5	67	1.7	10	2.0	2.4	4.9	4.8	8.5	15	.71	24
27	1.4	4.8	1.6	6.2	2.5	11	3.2	2.3	13	2.6	1.0	5.1
28	1.3	2.5	1.5	4.3	2.3	5.5	73	1.2	98	1.3	94	3.5
29	1.3	1.7	1.5	3.8	2.8	2.3	15	3.0	41	1.1	4.7	2.7
30	1.4	1.4	1.5	77	---	4.8	6.5	2.3	4.2	.92	4.2	2.4
31	1.8	---	1.5	31	---	2.1	---	1.1	---	10	36	---
TOTAL	170.1	132.5	158.4	355.3	320.8	279.6	418.8	131.6	371.61	200.80	339.13	1053.6
MEAN	5.49	4.42	5.11	11.5	11.1	9.02	14.0	4.25	12.4	6.48	10.9	35.1
MAX	42	67	53	77	90	70	73	22	98	55	94	209
MIN	1.3	1.0	1.2	1.3	2.0	1.4	1.9	1.1	.61	.56	.39	2.4

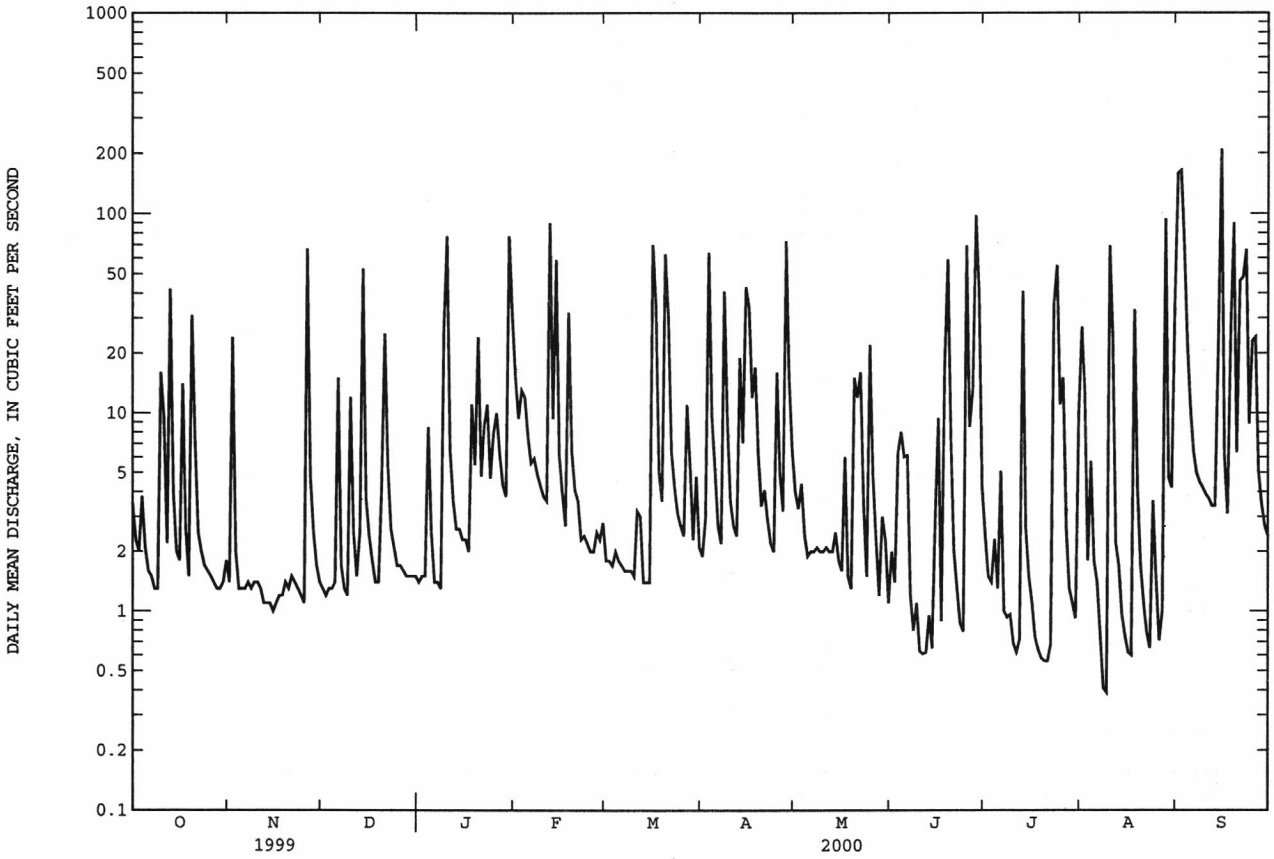
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	5.49	4.42	5.11	11.5	11.1	9.02	14.0	4.25	8.37	6.53	10.0	29.8
MAX	5.49	4.42	5.11	11.5	11.1	9.02	14.0	4.25	12.4	6.59	10.9	35.1
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	2000
MIN	5.49	4.42	5.11	11.5	11.1	9.02	14.0	4.25	4.35	6.48	9.06	24.4
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			3932.24			
ANNUAL MEAN			10.7		10.7	
HIGHEST ANNUAL MEAN					10.7	2000
LOWEST ANNUAL MEAN					10.7	2000
HIGHEST DAILY MEAN	168	Sep 5	209	Sep 15	209	Sep 15 2000
LOWEST DAILY MEAN	.28	Aug 12	.39	Aug 9	.28	Aug 12 1999
ANNUAL SEVEN-DAY MINIMUM	.41	Aug 2	.69	Jul 16	.41	Aug 2 1999
INSTANTANEOUS PEAK FLOW			1170	Sep 15	1170	Sep 15 2000
INSTANTANEOUS PEAK STAGE			14.01	Sep 15	14.01	Sep 15 2000
INSTANTANEOUS LOW FLOW			.35*	Aug 8	.27	Aug 11 1999
10 PERCENT EXCEEDS	24		31		32	
50 PERCENT EXCEEDS	1.5		2.5		2.3	
90 PERCENT EXCEEDS	.72		1.1		.79	

e Estimated.
* See REMARKS.

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC--Continued



02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--January 2000 to September 2000.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JANUARY 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	.00	3.47	.00	.00	.00	.00	.00	.85	3.06
2	---	---	---	.00	.07	.00	.33	.05	.00	.00	.03	.91
3	---	---	---	.00	.14	.00	.89	.00	.30	.00	.00	.16
4	---	---	---	.26	.00	.00	.04	.00	.03	.01	.11	.05
5	---	---	---	.00	.00	.13	.01	.00	.23	.12	.00	.01
6	---	---	---	.11	.00	.00	.00	.00	.11	.01	.00	.00
7	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	---	---	---	.00	.00	.00	.69	.00	.00	.00	.00	.00
9	---	---	---	.43	.00	.00	.00	.00	.00	.00	.00	.00
10	---	---	---	.67	.00	.00	.00	.00	.00	.00	1.10	.00
11	---	---	---	.00	.00	.00	.00	.00	.00	.00	.18	.00
12	---	---	---	.00	.68	.00	.00	.00	.00	.01	.00	.00
13	---	---	---	.00	.02	.03	.43	.00	.00	.69	.02	.00
14	---	---	---	.00	.47	.00	.17	.00	.03	.00	.00	.69
15	---	---	---	.00	.00	.00	.55	.00	.65	.00	.00	1.82
16	---	---	---	.00	.00	1.11	.04	.00	.01	.00	.00	.00
17	---	---	---	.00	.00	.00	.18	.33	.00	.00	.00	.00
18	---	---	---	.00	.46	.00	.12	.00	.10	.00	.49	1.02
19	---	---	---	.11	.00	.00	.00	.02	.62	.00	.00	.29
20	---	---	---	.45	.00	.29	.00	.57	.00	.00	.00	.16
21	---	---	---	.00	.00	.03	.06	.02	.00	.00	.00	.64
22	---	---	---	.00	.00	.00	.00	.33	.01	.01	.00	.29
23	---	---	---	.01	.00	.00	.00	.00	.00	1.24	.00	.42
24	---	---	---	.07	.18	.00	.06	.00	.00	.62	.09	.00
25	---	---	---	.00	.00	.00	.39	.42	1.21	.19	.02	.47
26	---	---	---	.00	.00	.00	.03	.00	.00	.16	.00	.04
27	---	---	---	.00	.00	.00	.01	.00	.79	.03	.08	.00
28	---	---	---	.00	.00	.00	.99	.02	1.42	.01	1.17	.00
29	---	---	---	.00	.00	.00	.00	.05	.41	.02	.00	.00
30	---	---	---	.69	---	.06	.00	.00	.00	.00	.17	.00
31	---	---	---	.10	---	.00	---	.00	---	.20	.39	---
TOTAL	---	---	---	2.90	5.49	1.65	4.99	1.81	5.92	3.32	4.70	10.03

USGS gaging station Dutchman's Creek near Uwharrie.

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC

LOCATION.--Lat 36°02'16", long 79°48'01", Guilford County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on US 220, and 0.8 mi upstream from Ryan Creek in Greensboro.

DRAINAGE AREA.--15.4 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 12, 13, 1999. Minimum discharge for current water year also occurred Nov. 6, June 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	3.6	2.7	2.9	26	3.9	6.0	8.1	3.3	5.9	69	e900
2	4.7	44	2.7	2.9	15	3.7	7.2	7.1	4.1	4.4	61	e1640
3	4.0	3.3	2.7	3.0	20	3.7	e133	8.7	8.1	3.7	5.2	126
4	5.0	2.1	2.8	14	19	3.8	18	6.0	15	4.9	9.6	33
5	5.2	2.0	2.7	6.4	12	3.9	11	4.8	12	4.6	5.5	15
6	3.6	2.0	28	3.0	9.0	3.7	7.0	4.8	14	11	4.0	8.4
7	3.3	2.0	4.0	2.9	8.9	3.6	6.2	4.8	4.1	3.7	3.8	6.8
8	3.2	2.1	3.1	2.8	8.4	3.6	98	6.1	3.0	3.1	2.8	6.0
9	3.2	2.1	2.9	49	6.9	3.6	20	4.5	2.7	3.0	2.5	5.5
10	25	2.1	24	e196	6.4	3.5	8.2	4.3	2.9	2.8	e262	5.3
11	25	2.2	5.9	11	6.1	4.0	6.5	3.9	2.4	2.6	28	4.9
12	4.9	2.2	3.4	5.7	e195	6.6	6.0	3.7	2.4	2.6	4.9	4.5
13	81	2.5	4.5	4.7	17	3.1	33	3.7	2.3	93	4.2	4.4
14	9.5	2.5	e147	4.1	e139	3.0	16	4.1	6.5	5.9	e3.2	24
15	4.9	2.5	6.4	3.9	12	3.0	79	3.4	13	4.0	e3.0	e1100
16	4.3	2.5	4.3	3.9	7.5	e224	79	3.2	28	3.9	e2.8	25
17	26	2.3	3.5	3.6	5.9	e209	19	11	3.5	3.0	e2.6	15
18	7.3	2.3	3.2	14	54	12	33	4.7	17	2.6	e30	13
19	4.0	2.4	3.1	8.2	10	8.8	12	3.4	e250	2.6	11	e200
20	59	2.6	7.2	33	6.5	107	7.4	31	19	2.4	4.0	16
21	20	2.6	47	7.9	6.0	86	8.6	27	5.7	2.3	3.1	e68
22	5.5	2.9	10	4.3	4.3	16	7.8	34	4.2	2.6	2.6	e166
23	4.3	2.7	4.6	15	4.6	10	5.7	6.9	3.5	e500	2.3	86
24	3.9	2.3	3.8	7.2	4.6	8.4	5.4	4.3	3.0	e200	8.4	22
25	3.7	2.3	3.3	18	4.2	7.6	35	46	e300	24	4.4	e50
26	3.7	126	3.2	14	4.1	7.0	11	8.0	27	24	2.7	e80
27	3.5	8.6	3.1	8.8	4.4	20	11	5.4	e250	6.2	6.1	e18
28	3.4	4.2	3.1	6.7	4.9	14	e165	4.0	e500	5.0	e460	6.6
29	4.3	3.4	3.0	6.1	4.3	6.6	35	5.6	112	6.0	7.5	5.9
30	3.4	2.9	2.9	e180	---	12	11	4.9	10	3.2	5.3	5.4
31	3.8	---	2.9	56	---	7.1	---	3.8	---	31	50	---
TOTAL	349.8	247.2	351.0	699.0	626.0	812.2	901.0	281.2	1628.7	974.0	1071.5	4660.7
MEAN	11.3	8.24	11.3	22.5	21.6	26.2	30.0	9.07	54.3	31.4	34.6	155
MAX	81	126	147	196	195	224	165	46	500	500	460	1640
MIN	3.2	2.0	2.7	2.8	4.1	3.0	5.4	3.2	2.3	2.3	2.3	4.4

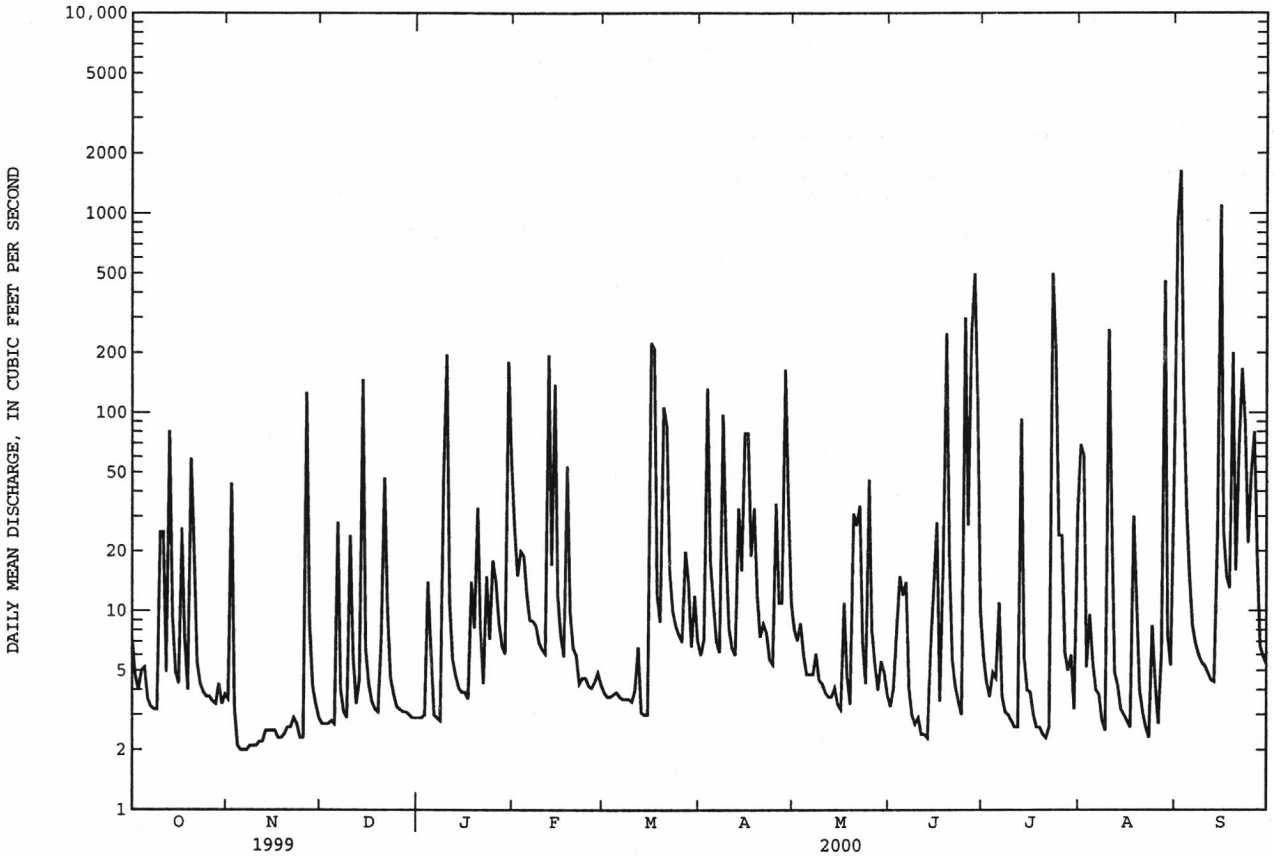
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	7.44	5.62	19.3	52.6	16.3	22.8	40.1	9.13	30.8	21.8	26.7	77.0
MAX	11.3	8.24	27.2	82.6	21.6	26.2	50.2	9.19	54.3	31.4	34.6	155
(WY)	2000	2000	1999	1999	2000	2000	1999	1999	2000	2000	2000	2000
MIN	3.59	3.00	11.3	22.5	10.7	19.4	30.0	9.07	7.39	12.2	14.2	9.73
(WY)	1999	1999	2000	2000	1999	1999	2000	2000	1999	1999	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	9753.09		12602.3			
ANNUAL MEAN	26.7		34.4		30.7	
HIGHEST ANNUAL MEAN					34.4	2000
LOWEST ANNUAL MEAN					27.0	1999
HIGHEST DAILY MEAN	1020	Jan 3	1640	Sep 2	1640	Sep 2 2000
LOWEST DAILY MEAN	.66	Aug 13	2.0	Nov 5	.65	Oct 22 1998
ANNUAL SEVEN-DAY MINIMUM	.83	Aug 7	2.1	Nov 4	.73	Oct 21 1998
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			14.73	Sep 1	14.73	Sep 1 2000
INSTANTANEOUS LOW FLOW			1.9*	Nov 5	.44*	Dec 3 1998
10 PERCENT EXCEEDS	42		63		50	
50 PERCENT EXCEEDS	4.0		5.6		4.3	
90 PERCENT EXCEEDS	1.8		2.7		1.6	

e Estimated.
* See REMARKS.

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC--Continued



02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC--Continued

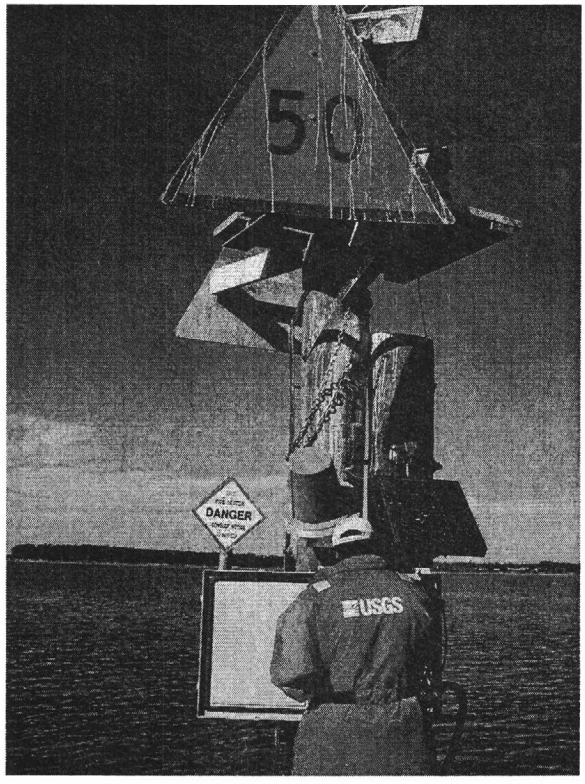
PRECIPITATION RECORDS

PERIOD OF RECORD.--August 1998 to current year. Records for August 1998 to December 1999 are unpublished and available in the USGS District Office in Raleigh, NC.

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JANUARY 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	.00	.17	.00	.00	.00	.00	.00	.57	2.02
2	---	---	---	.00	.00	.00	.04	.01	.00	.00	.06	.36
3	---	---	---	.00	.00	.00	.44	.00	.06	.00	.00	.08
4	---	---	---	.29	.00	.00	.05	.00	.04	.04	.13	.10
5	---	---	---	.00	.00	.00	.00	.00	.21	.15	.00	.00
6	---	---	---	.65	.00	.00	.00	.00	.06	.01	.00	.00
7	---	---	---	.00	.00	.00	.00	.00	.00	.00	.06	.00
8	---	---	---	.00	.00	.00	.71	.00	.00	.00	.00	.00
9	---	---	---	.45	.00	.00	.00	.00	.00	.00	.00	.00
10	---	---	---	.62	.00	.00	.00	.00	.00	.00	.83	.00
11	---	---	---	.00	.00	.09	.00	.00	.00	.00	.01	.00
12	---	---	---	.00	.82	.00	.00	.00	.00	.02	.00	.00
13	---	---	---	.00	.02	.00	.42	.01	.00	.85	.04	.00
14	---	---	---	.00	.40	.00	.21	.00	.18	.00	.01	.21
15	---	---	---	.00	.00	.00	.47	.00	.72	.00	.00	2.20
16	---	---	---	.00	.00	2.10	.01	.00	.01	.07	.00	.00
17	---	---	---	.00	.00	.00	.34	.18	.00	.00	.00	.00
18	---	---	---	.00	.43	.00	.07	.00	.14	.00	.31	.73
19	---	---	---	.17	.00	.00	.00	.00	2.37	.00	.00	.34
20	---	---	---	.43	.00	.68	.00	.63	.00	.00	.00	.00
21	---	---	---	.00	.00	.04	.07	.06	.00	.00	.00	.41
22	---	---	---	.00	.00	.00	.00	.31	.00	.04	.00	.51
23	---	---	---	.00	.00	.00	.00	.00	.00	2.91	.00	.52
24	---	---	---	.14	.00	.00	.04	.00	.00	.30	.14	.00
25	---	---	---	.01	.00	.00	.45	.51	.83	.19	.02	.73
26	---	---	---	.00	.00	.00	.12	.00	.00	.08	.00	.02
27	---	---	---	.00	.02	.19	.00	.00	1.54	.00	.33	.00
28	---	---	---	.00	.01	.00	.78	.02	1.20	.14	1.16	.00
29	---	---	---	.00	.00	.00	.00	.03	.40	.07	.00	.00
30	---	---	---	.53	---	.08	.00	.00	.00	.00	.14	.00
31	---	---	---	.00	---	.00	---	.00	---	.76	.30	---
TOTAL	---	---	---	3.29	1.87	3.18	4.22	1.76	7.76	5.63	4.11	8.23



USGS water-quality monitor at the New River channel marker 50.

02094775 RYAN CREEK BELOW US HIGHWAY 220 AT GREENSBORO, NC

LOCATION.--Lat 36°01'51", long 79°47'56", Guilford County, Hydrologic Unit 03030002, on left bank 0.6 mi upstream of South Buffalo Creek, and .2 mi below US Highway 220 in Greensboro.

DRAINAGE AREA.--4.12 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those discharges above 50 ft^3/s and those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred June 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	.71	.71	.79	7.6	1.1	1.3	2.8	.59	1.4	16	e153
2	1.8	6.2	.72	.85	5.3	1.0	1.4	3.0	.58	1.2	13	e134
3	1.4	.93	.73	.84	5.6	.98	10	2.8	.54	1.0	1.8	11
4	1.2	.54	.81	3.0	5.4	1.0	2.8	1.9	.69	1.0	1.5	4.4
5	1.1	.46	.91	1.7	4.4	.91	1.7	1.3	1.5	1.2	1.4	2.3
6	1.0	.45	3.7	.88	3.5	.85	1.4	1.2	1.5	1.4	1.1	1.7
7	.92	.42	.92	.76	3.1	.95	1.3	1.2	.69	.99	2.2	2.0
8	.75	.52	.72	.66	2.5	.83	14	1.1	.58	.80	1.8	1.8
9	.72	.50	.70	7.6	2.2	.66	4.1	1.1	.67	.72	1.0	1.3
10	2.6	.37	4.1	26	2.0	.62	1.7	.98	.80	.68	15	1.3
11	7.5	.38	1.4	3.3	2.0	.92	1.4	.83	.50	.68	1.6	1.1
12	1.4	.39	.85	1.9	30	.82	1.5	.82	.39	.67	.97	1.1
13	15	.42	.92	1.5	5.7	.57	6.2	.81	.51	11	.89	1.1
14	2.7	.47	22	.99	22	.56	2.9	.78	1.0	1.4	.89	5.2
15	1.4	.52	2.1	.97	4.4	.59	13	.66	5.7	.91	.82	e393
16	1.2	.57	1.3	1.0	3.0	e69	13	.70	5.7	1.1	.76	2.2
17	4.7	.68	1.1	.92	2.2	e44	6.4	1.5	1.0	.78	1.1	1.4
18	1.9	.82	1.7	2.5	8.8	3.0	9.5	1.0	.98	.83	4.0	7.5
19	1.1	.82	.99	2.0	3.5	2.2	2.5	.71	14	.65	1.9	e42
20	14	.85	1.5	7.8	3.0	19	1.8	5.9	2.0	.68	.96	2.6
21	5.0	.84	7.7	3.1	2.2	15	1.7	3.3	1.0	.65	.84	11
22	1.8	.97	2.7	2.0	1.8	3.8	1.6	7.1	.83	.84	.79	29
23	1.2	.97	1.3	e1.7	1.6	2.9	1.4	1.1	.69	e56	.69	39
24	.84	.99	1.1	e1.4	1.5	2.1	1.3	1.3	.41	18	1.2	4.2
25	.83	.99	.94	e1.3	1.3	1.9	8.1	7.4	10	5.3	.96	23
26	.79	15	.90	e1.3	1.2	1.7	2.4	1.4	3.1	5.1	1.0	14
27	.83	1.8	.87	e1.2	1.3	3.1	3.6	.80	e41	1.8	3.4	2.7
28	.69	1.0	.82	e1.1	1.3	2.3	28	.79	e74	1.2	e44	1.9
29	.65	.78	.78	e1.1	1.1	1.5	8.8	1.1	16	8.8	1.6	1.6
30	.66	.69	.84	28	---	1.9	3.3	.82	2.4	1.3	1.3	1.4
31	.71	---	.82	15	---	1.5	---	.62	---	8.0	7.7	---
TOTAL	78.99	41.05	66.65	123.16	139.5	187.26	158.1	56.82	189.35	136.08	132.17	897.8
MEAN	2.55	1.37	2.15	3.97	4.81	6.04	5.27	1.83	6.31	4.39	4.26	29.9
MAX	15	15	22	28	30	69	28	7.4	74	56	44	393
MIN	.65	.37	.70	.66	1.1	.56	1.3	.62	.39	.65	.69	1.1
CFSM	.62	.33	.52	.96	1.17	1.47	1.28	.44	1.53	1.07	1.03	7.26
IN.	.71	.37	.60	1.11	1.26	1.69	1.43	.51	1.71	1.23	1.19	8.11

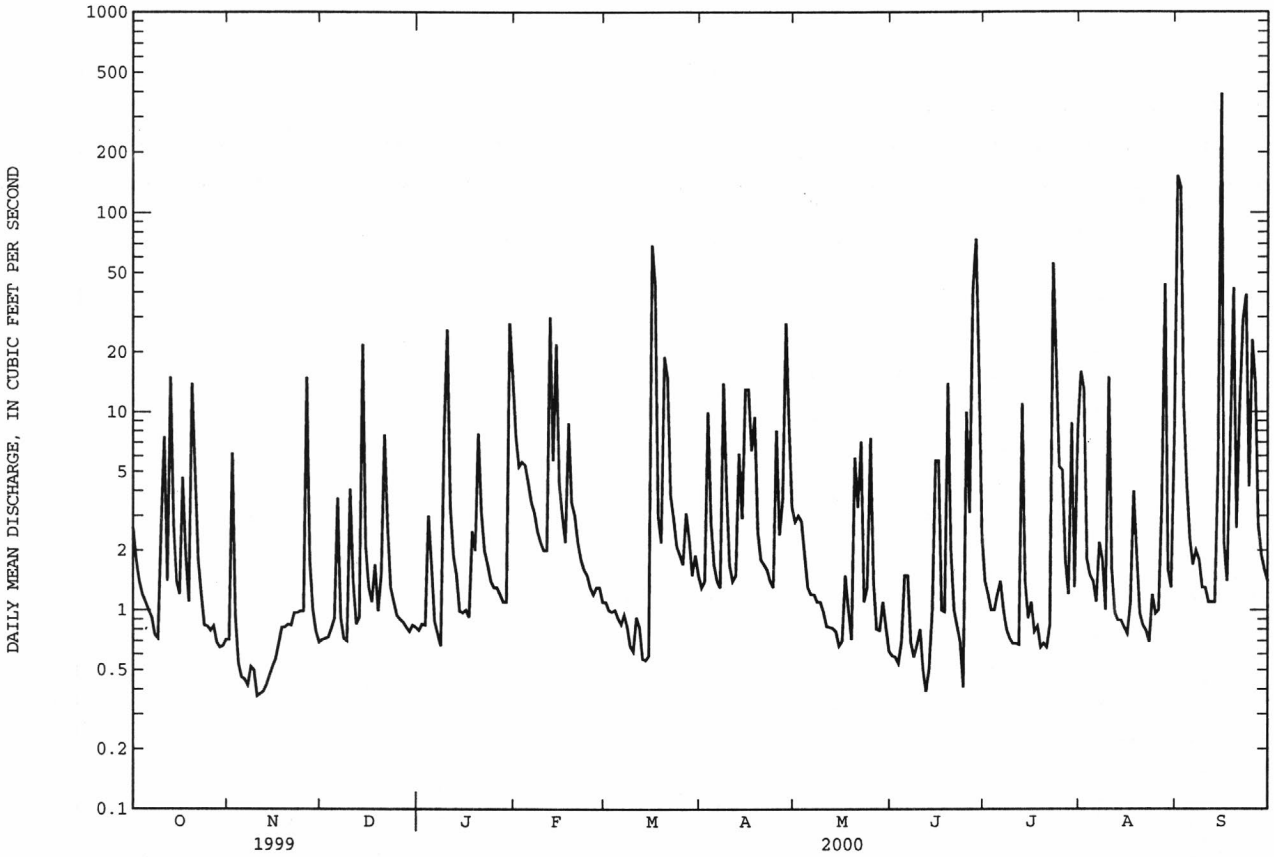
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	1.43	.90	2.90	6.85	3.49	4.39	4.55	1.44	3.54	2.64	2.99	13.6
MAX	2.55	1.37	3.65	9.72	4.81	6.04	5.27	1.83	6.31	4.39	4.26	29.9
(WY)	2000	2000	1999	1999	2000	2000	2000	2000	2000	2000	2000	2000
MIN	.31	.42	2.15	3.97	2.13	2.74	3.82	1.05	.76	.89	1.66	1.14
(WY)	1999	1999	2000	2000	1999	1999	1999	1999	1999	1999	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	1219.19		2206.93			
ANNUAL MEAN	3.34		6.03		4.62	
HIGHEST ANNUAL MEAN					6.03	2000
LOWEST ANNUAL MEAN					3.20	1999
HIGHEST DAILY MEAN	104	Jan 3	393	Sep 15	393	Sep 15 2000
LOWEST DAILY MEAN	.01	Aug 11	.37	Nov 10	.01	Aug 11 1999
ANNUAL SEVEN-DAY MINIMUM	.02	Aug 7	.43	Nov 7	.02	Aug 7 1999
INSTANTANEOUS PEAK STAGE			10.13	Sep 15	10.13	Sep 15 2000
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
INSTANTANEOUS LOW FLOW			.30*	Nov 10	.01	Aug 10 1999
ANNUAL RUNOFF (CFSM)	.81		1.46		1.12	
ANNUAL RUNOFF (INCHES)	11.01		19.93		15.23	
10 PERCENT EXCEEDS	6.6		11		8.1	
50 PERCENT EXCEEDS	.93		1.3		1.0	
90 PERCENT EXCEEDS	.17		.68		.19	

e Estimated.
* See REMARKS.

02094775 RYAN CREEK BELOW US HIGHWAY 220 AT GREENSBORO, NC--Continued



02094775 RYAN CREEK BELOW US 220 AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

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

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.00	.00	.35	.00	.00	.00	.00	---	---	---
2	---	---	.00	.00	.02	.00	.07	.02	.00	---	---	---
3	---	---	.00	.00	.14	.00	.55	.01	.06	---	---	---
4	---	---	.00	.32	.00	.00	.10	.00	.07	---	---	---
5	---	---	.00	.00	.00	.00	.00	.00	.24	---	---	---
6	---	.00	.38	.00	.00	.00	.00	.00	.07	---	---	.00
7	---	.00	.00	.00	.00	.00	.00	.00	.00	---	---	.00
8	---	.00	.00	.00	.00	.00	.86	.00	.00	---	---	.00
9	---	.00	.00	.55	.00	.00	.00	.00	.00	---	---	.00
10	---	.00	.35	.47	.00	.00	.00	.00	.00	---	---	.00
11	---	.00	.00	.08	.00	.21	.00	.00	.00	---	---	.00
12	---	.00	.00	.10	1.03	.00	.00	.00	.00	---	---	.00
13	---	.00	.07	.01	.02	.00	.48	.03	.00	---	---	.00
14	---	.00	.67	.00	.49	.00	.15	.00	.35	---	---	.25
15	---	.00	.11	.00	.00	.00	.30	.00	.73	---	---	2.33
16	---	.00	.03	.00	.00	2.67	.25	.00	.02	---	---	.37
17	---	.00	.00	.00	.00	.01	.62	.22	.04	---	---	.00
18	---	.00	.00	.00	.53	.00	.11	.00	.04	---	---	.95
19	---	.00	.04	.13	.00	.00	.00	.00	1.18	---	---	.50
20	---	.00	.14	.59	.00	.89	.00	.70	.15	---	---	.00
21	---	.00	.10	.00	.00	.08	.03	.11	---	---	---	.28
22	---	.04	.11	.00	.00	.00	.00	.43	---	---	---	.53
23	---	.00	.14	.00	.00	.00	.00	.00	---	---	---	.38
24	---	.01	.00	.19	.00	.00	.07	.00	---	---	---	.09
25	---	.00	.00	.01	.00	.00	.61	.63	---	---	---	.03
26	---	1.01	.00	.00	.00	.00	.17	.00	---	---	---	.07
27	---	.00	.00	.00	.05	.24	.01	.00	---	---	---	.65
28	---	.00	.00	.00	.00	.00	.95	.04	---	---	---	.51
29	---	.00	.00	.00	.00	.00	.00	.06	---	---	---	.01
30	---	.00	.00	.00	---	.12	.01	.00	---	---	---	.02
31	---	---	.00	.72	---	.00	---	.00	---	---	---	---
TOTAL	---	---	2.14	3.17	2.63	4.22	5.34	2.25	---	---	---	---

USGS gaging station at Little River at SR 1461 near Orange Factory.

02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC

LOCATION.--Lat 36°02'36", long 79°43'33", Guilford County, Hydrologic Unit 03030002, on left bank at upstream side of bridge on Secondary Road 3000, 3.8 mi east of Greensboro, 4.0 mi downstream from Run Creek.

DRAINAGE AREA.--34.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to September 1958. August 1998 to current year. Prior to October 1952, published as "Buffalo Creek near Greensboro".

REVISIONS.--WSP 972: 1928-30, 1932-33, 1934(M), 1935-37, 1939, 1940(M). WSP 1303: 1934, 1938, 1940-42, monthly and yearly runoff. WSP 1383: Drainage area, 1931, 1941(M).

GAGE.--Water-stage recorder. Elevation of gage is 700 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated discharges, which are poor. Maximum discharge 10,000 ft^3/s July 15, 1949, gage-height 11.54 ft, from rating curve extended above 2,000 ft^3/s based on contracted-opening measurement, site and datum then in use. Minimum discharge for period of record also occurred Aug 8, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	5.8	6.0	6.9	71	11	14	16	3.6	17	173	419
2	14	57	6.0	7.0	49	9.3	15	12	4.4	11	152	1560
3	10	14	5.8	7.2	49	9.0	172	16	24	8.2	19	348
4	9.3	7.2	5.9	25	52	9.2	43	10	27	8.5	17	80
5	12	6.2	5.9	21	40	9.2	25	7.9	19	14	20	33
6	7.4	6.0	44	8.7	29	9.0	18	7.3	31	29	11	20
7	6.3	5.7	11	7.4	26	8.6	14	7.0	6.7	23	13	15
8	5.6	5.6	7.1	6.8	25	8.8	159	7.0	4.1	7.0	11	13
9	5.4	6.0	6.4	69	21	8.0	68	7.8	2.9	6.0	6.6	11
10	27	5.8	37	313	19	7.9	24	5.9	3.3	5.2	269	9.6
11	51	5.6	18	34	18	9.2	18	4.7	2.5	4.9	52	8.7
12	12	5.5	8.6	17	356	17	16	4.6	2.0	4.8	13	7.9
13	131	5.6	9.7	13	55	7.3	81	4.6	2.6	169	11	7.4
14	26	5.8	235	10	247	6.8	48	5.0	13	18	9.1	56
15	11	5.4	21	9.8	37	6.7	170	3.8	53	8.9	7.0	1940
16	8.5	5.1	13	9.4	24	240	222	3.7	110	8.5	6.2	38
17	37	5.0	10	8.8	18	679	45	23	6.6	5.7	5.9	17
18	19	5.2	9.1	24	104	41	126	8.9	22	4.5	60	17
19	8.3	5.1	8.3	21	34	26	31	4.2	959	4.3	34	573
20	99	5.6	18	62	22	175	17	42	69	5.3	9.9	33
21	49	6.0	73	26	18	193	16	66	16	4.2	7.0	48
22	15	6.9	32	13	16	44	16	68	10	4.7	6.3	393
23	10	7.0	15	29	14	30	9.9	10	8.0	647	5.0	422
24	7.8	6.6	11	21	14	24	9.2	6.3	6.0	276	13	57
25	7.0	6.1	9.6	e24	13	20	88	107	134	57	10	149
26	7.1	175	8.8	e22	12	18	26	14	106	57	6.5	179
27	6.6	26	8.6	e21	12	40	29	6.6	310	21	44	30
28	6.0	11	8.1	e20	14	36	280	5.3	612	12	581	19
29	6.5	8.5	7.6	20	11	17	90	7.4	347	69	23	15
30	6.2	6.7	7.2	359	---	25	25	6.2	34	12	13	13
31	5.6	---	7.1	154	---	18	---	4.7	---	31	83	---
TOTAL	650.6	433.0	673.8	1390.0	1420	1763.0	1915.1	502.9	2948.7	1553.7	1691.5	6531.6
MEAN	21.0	14.4	21.7	44.8	49.0	56.9	63.8	16.2	98.3	50.1	54.6	218
MAX	131	175	235	359	356	679	280	107	959	647	581	1940
MIN	5.4	5.0	5.8	6.8	11	6.7	9.2	3.7	2.0	4.2	5.0	7.4
CFSM	.62	.43	.65	1.33	1.46	1.69	1.90	.48	2.93	1.49	1.62	6.48
IN.	.72	.48	.75	1.54	1.57	1.95	2.12	.56	3.26	1.72	1.87	7.23

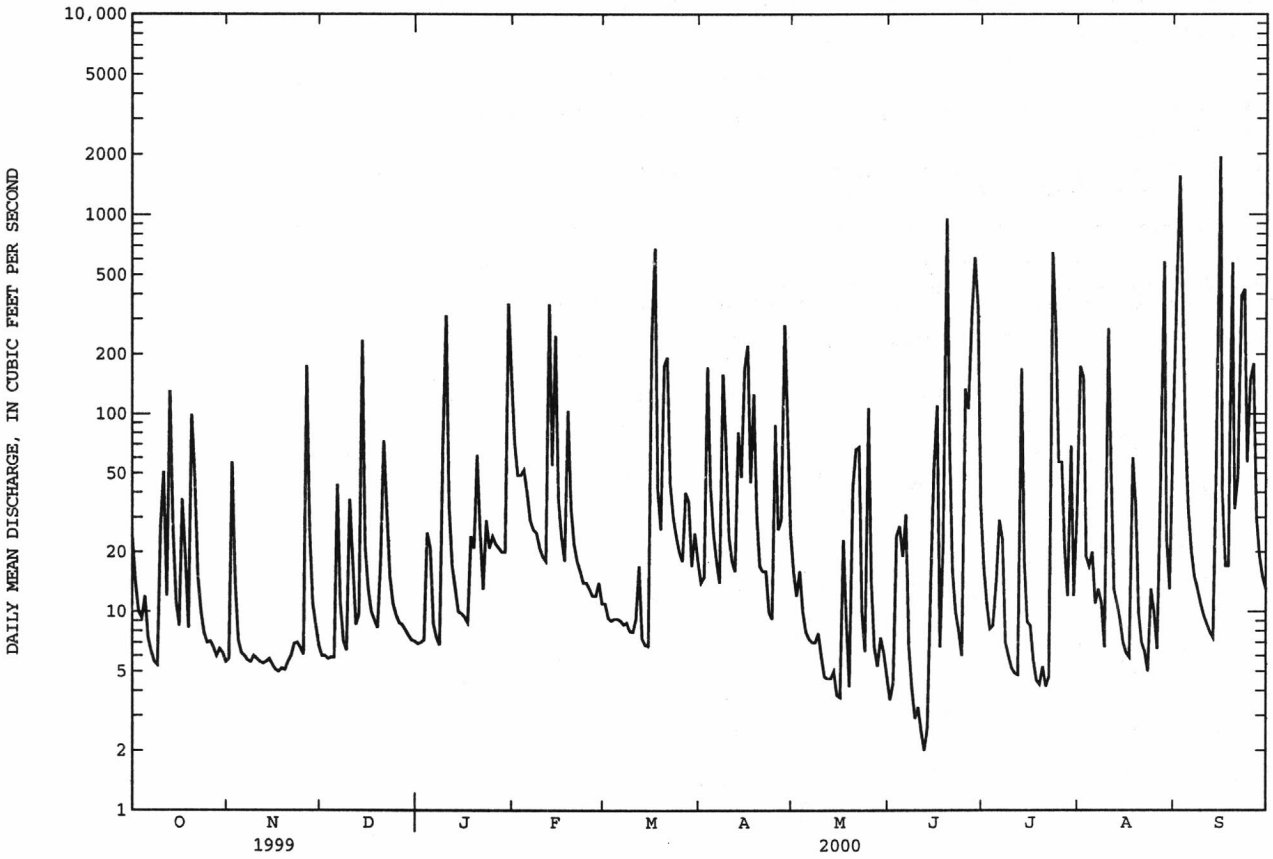
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000@, BY WATER YEAR (WY)

MEAN	23.2	29.1	38.8	59.1	65.8	58.7	50.1	25.9	26.8	33.3	22.3	39.3
MAX	109	109	108	179	135	182	127	71.4	98.3	307	79.5	218
(WY)	1930	1949	1933	1937	1953	1952	1936	1946	2000	1949	1939	2000
MIN	1.82	3.53	6.86	7.87	14.0	22.5	11.9	6.53	4.40	2.64	2.33	2.26
(WY)	1931	1932	1934	1942	1931	1930	1942	1936	1933	1932	1932	1930

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000@	
ANNUAL TOTAL	14889.40		21473.9			
ANNUAL MEAN	40.8		58.7		39.0	
HIGHEST ANNUAL MEAN					73.2	1949
LOWEST ANNUAL MEAN					21.0	1942
HIGHEST DAILY MEAN	1260	Jan 24	1940	Sep 15	5460	Jul 15 1949
LOWEST DAILY MEAN	.62	Aug 13	2.0	Jun 12	.50	Sep 29 1930
ANNUAL SEVEN-DAY MINIMUM	.94	Aug 3	3.4	Jun 7	.80	Sep 28 1930
INSTANTANEOUS PEAK FLOW			3690	Sep 15	10000	Jul 15 1945
INSTANTANEOUS PEAK STAGE			13.13	Sep 15	13.13	Sep 15 2000
INSTANTANEOUS LOW FLOW			1.5	Jun 14	.57	Aug 7 1999
ANNUAL RUNOFF (CFSM)	1.21		1.75		1.16	
ANNUAL RUNOFF (INCHES)	16.48		23.77		15.76	
10 PERCENT EXCEEDS	77		138		72	
50 PERCENT EXCEEDS	9.2		14		14	
90 PERCENT EXCEEDS	2.9		5.6		4.6	

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

02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued



02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued

PRECIPITATION RECORDS

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

ISTRUMENTATION.--Tipping-bucket raingage and data collection platform.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.00	.00	.27	.00	.00	.00	.00	.00	.50	1.08
2	.00	.47	.00	.00	.04	.00	.00	.00	.00	.00	.01	.77
3	.00	.00	.00	.00	.34	.00	.00	.00	.36	.00	.01	.21
4	.05	.00	.00	.44	.05	.00	.00	.00	.03	.05	.17	.06
5	.01	.00	.01	.00	.00	.00	.00	.00	.20	.16	.07	.00
6	.00	.00	.34	.01	.00	.00	.00	.00	.06	.19	.00	.00
7	.01	.00	.00	.00	.00	.00	.00	.00	.00	.43	.04	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.01	.00	.00	.52	.00	.00	.00	.00	.00	.00	.00	.00
10	.49	.00	.40	.71	.00	.00	.00	.00	.00	.00	1.11	.00
11	.08	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.00
12	.00	.00	.00	.00	.53	.00	.00	.00	.00	.01	.00	.00
13	.71	.01	.06	.01	.03	.00	.08	.01	.00	1.02	.04	.00
14	.01	.00	.73	.00	.45	.00	.08	.00	.25	.00	.00	.69
15	.00	.00	.00	.00	.00	.00	.24	.00	.79	.00	.00	1.14
16	.01	.00	.00	.00	.00	.24	.00	.00	.03	.02	.00	.00
17	.35	.00	.00	.00	.00	.00	.32	.37	.00	.00	.00	.00
18	.00	.00	.00	.00	.48	.00	.11	.00	.06	.00	.51	.65
19	.00	.00	.06	.01	.01	.00	.00	.00	3.38	.00	.01	.46
20	.95	.00	.13	.62	.00	.00	.00	.56	.00	.00	.00	.00
21	.01	.03	.43	.00	.00	.00	.01	.05	.00	.00	.00	.00
22	.01	.06	.02	.00	.00	.00	.00	.39	.00	.04	.00	.00
23	.00	.01	.01	.01	.00	.00	.00	.00	.00	2.15	.00	.00
24	.00	.01	.01	.05	.00	.00	.08	.00	.00	.19	.02	.00
25	.00	.00	.00	.01	.00	.00	.28	.58	.21	.24	.00	.00
26	.00	1.15	.00	.00	.00	.00	.15	.00	.00	.08	.00	.00
27	.01	.00	.00	.00	.01	.00	.00	.00	.99	.01	.96	.00
28	.00	.00	.00	.00	.00	.00	.84	.03	.81	.15	1.20	.00
29	.00	.00	.00	.00	.00	.00	.09	.04	.33	.15	.00	.00
30	.01	.00	.00	.89	---	.00	.00	.00	.00	.00	.15	.00
31	.00	---	.00	.16	---	.00	---	.00	---	.12	.22	---
TOTAL	2.73	1.74	2.20	3.44	2.21	0.24	2.28	2.03	7.50	5.03	5.08	5.06

USGS gaging station at Tar River at US 401 at Louisburg.

02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC

LOCATION.--Lat 36°04'39", long 79°48'48", Guilford County, Hydrologic Unit 03030002, on right bank at termination of Westover Terrace in Greensboro, 0.7 mi above Southern Railway.

DRAINAGE AREA.--9.52 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to September 2000.

GAGE.--Water-stage recorder. Datum of gage is 736.25 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for 1999 water year also occurred Aug. 13. Minimum discharge for period of record also occurred Aug. 13, 1999.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JUNE 1999 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e3.0	e54	1.5	1.7
2	---	---	---	---	---	---	---	---	e2.9	10	1.2	1.8
3	---	---	---	---	---	---	---	---	2.9	1.9	.89	1.8
4	---	---	---	---	---	---	---	---	2.6	1.5	1.0	2.4
5	---	---	---	---	---	---	---	---	2.7	1.4	.95	e184
6	---	---	---	---	---	---	---	---	2.6	1.3	.94	e52
7	---	---	---	---	---	---	---	---	2.8	e52	.92	7.6
8	---	---	---	---	---	---	---	---	2.7	6.2	.90	2.1
9	---	---	---	---	---	---	---	---	2.3	2.5	2.4	6.0
10	---	---	---	---	---	---	---	---	22	11	.78	4.0
11	---	---	---	---	---	---	---	---	6.9	6.4	.66	1.2
12	---	---	---	---	---	---	---	---	1.6	23	.58	1.1
13	---	---	---	---	---	---	---	---	1.6	19	.59	1.1
14	---	---	---	---	---	---	---	---	1.6	7.0	e101	1.1
15	---	---	---	---	---	---	---	---	16	3.3	13	e173
16	---	---	---	---	---	---	---	---	47	2.5	1.3	e106
17	---	---	---	---	---	---	---	---	8.3	2.3	1.2	3.7
18	---	---	---	---	---	---	---	---	2.0	2.2	1.4	2.0
19	---	---	---	---	---	---	---	---	1.5	2.1	1.4	1.6
20	---	---	---	---	---	---	---	---	33	e33	e38	1.4
21	---	---	---	---	---	---	---	---	4.3	4.4	3.3	4.9
22	---	---	---	---	---	---	---	---	2.2	e25	.88	3.3
23	---	---	---	---	---	---	---	---	1.7	2.1	.70	1.3
24	---	---	---	---	---	---	---	---	1.5	8.4	.71	1.3
25	---	---	---	---	---	---	---	---	2.6	2.6	e39	1.4
26	---	---	---	---	---	---	---	---	2.9	1.5	e102	1.3
27	---	---	---	---	---	---	---	---	1.8	1.4	e47	e35
28	---	---	---	---	---	---	---	---	1.6	1.5	1.9	e101
29	---	---	---	---	---	---	---	---	1.6	7.8	1.2	e119
30	---	---	---	---	---	---	---	---	e35	2.0	1.2	28
31	---	---	---	---	---	---	---	---	---	1.4	1.5	---
TOTAL	---	---	---	---	---	---	---	---	221.2	300.7	370.00	852.1
MEAN	---	---	---	---	---	---	---	---	7.37	9.70	11.9	28.4
MAX	---	---	---	---	---	---	---	---	47	54	102	184
MIN	---	---	---	---	---	---	---	---	1.5	1.3	.58	1.1
CFSM	---	---	---	---	---	---	---	---	.77	1.02	1.25	2.97
IN.	---	---	---	---	---	---	---	---	.86	1.17	1.44	3.32

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD JUNE TO SEPTEMBER 1999

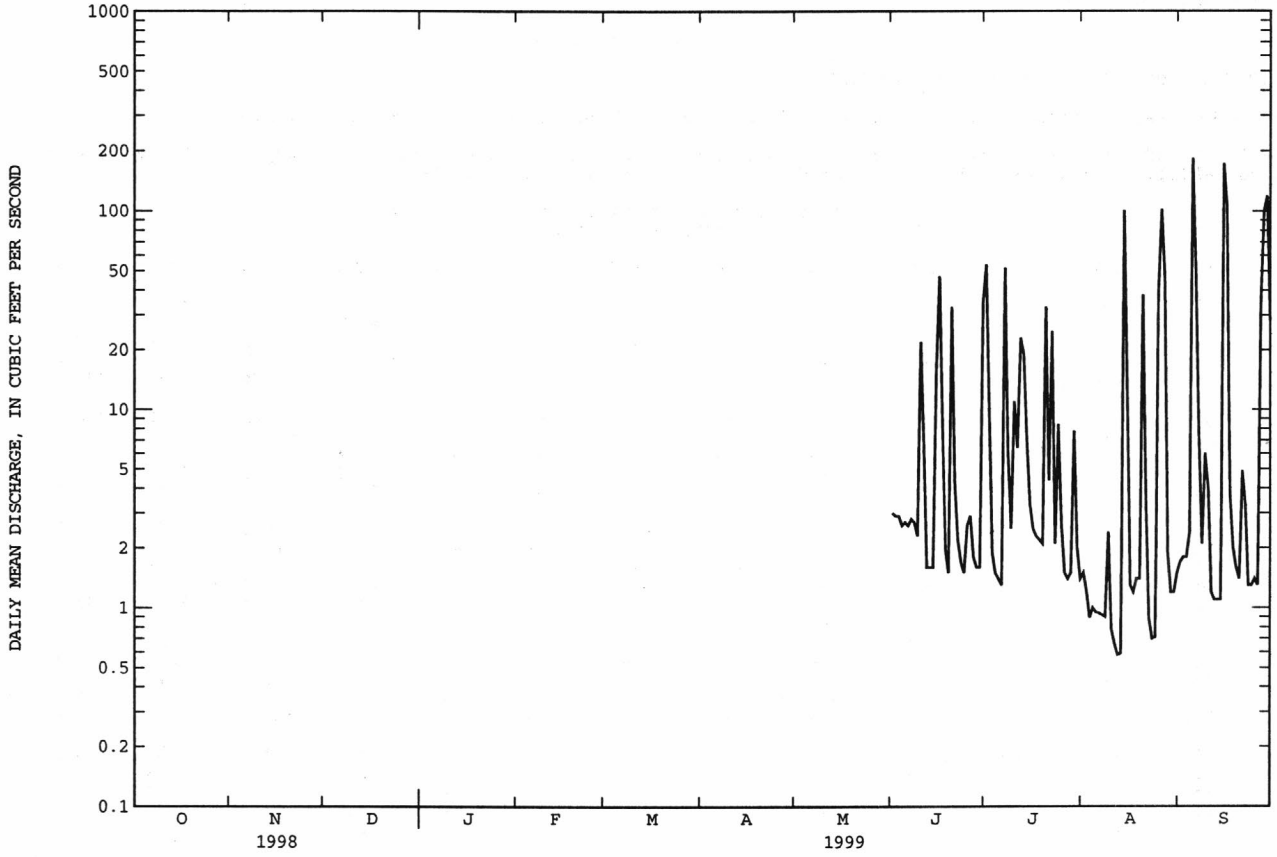
MEAN	---	---	---	---	---	---	---	---	7.37	9.70	11.9	28.4
MAX	---	---	---	---	---	---	---	---	7.37	9.70	11.9	28.4
(WY)	---	---	---	---	---	---	---	---	1999	1999	1999	1999
MIN	---	---	---	---	---	---	---	---	7.37	9.70	11.9	28.4
(WY)	---	---	---	---	---	---	---	---	1999	1999	1999	1999

SUMMARY STATISTICS FOR PERIOD JUNE TO SEPTEMBER 1999

HIGHEST DAILY MEAN	184	Sep 5
LOWEST DAILY MEAN	.58	Aug 12
ANNUAL SEVEN-DAY MINIMUM	.97	Aug 2
INSTANTANEOUS PEAK FLOW	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE	8.74	Aug 14
INSTANTANEOUS LOW FLOW	.50*	Aug 12

e Estimated.
* See REMARKS.

02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC--Continued



02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.8	2.1	2.1	16	3.4	3.2	4.5	2.1	3.2	e34	e333
2	2.0	e34	2.1	2.2	11	3.5	4.3	4.5	2.0	2.6	e29	e120
3	1.7	2.4	2.4	2.2	13	3.5	e80	4.4	e30	2.5	3.0	e107
4	2.9	1.5	2.1	9.8	13	3.5	7.7	3.8	5.0	2.8	5.8	18
5	2.2	1.8	2.2	2.9	9.6	3.5	4.3	4.0	9.3	9.1	6.0	6.2
6	1.7	1.5	19	1.7	7.2	3.5	3.8	3.8	5.0	13	3.2	3.9
7	1.4	1.5	2.3	1.8	8.0	3.4	3.5	3.7	2.2	12	4.4	3.3
8	1.4	1.5	2.3	1.8	6.8	3.5	e56	3.7	1.9	2.4	2.6	3.0
9	1.6	1.4	2.0	e37	5.3	3.6	7.9	3.5	1.9	2.1	2.5	2.8
10	18	1.6	14	e85	5.0	3.7	4.0	3.5	1.7	1.9	e84	2.7
11	7.8	1.5	3.4	6.6	5.1	6.1	3.8	3.3	1.8	2.0	e43	2.7
12	2.0	1.4	2.3	3.9	e94	5.2	3.8	3.3	1.7	2.6	2.5	2.7
13	56	1.5	3.4	3.6	11	2.9	30	3.7	1.7	e74	2.5	2.7
14	4.3	1.4	e69	3.2	e69	2.7	7.2	4.0	1.9	3.7	2.0	7.7
15	2.1	1.5	4.1	3.0	8.5	2.9	e78	2.7	e16	2.4	1.8	e371
16	1.8	1.4	2.9	3.0	5.7	e100	e41	2.8	15	2.0	1.6	6.0
17	15	e1.4	2.7	3.1	4.5	e34	16	13	1.6	1.8	1.6	3.5
18	3.0	e1.3	2.6	10	38	4.3	22	2.8	e50	1.8	e24	e40
19	1.7	e1.3	2.5	5.4	7.8	3.6	6.0	2.4	e270	2.2	3.9	e125
20	35	1.6	6.5	21	5.0	e68	4.6	e38	10	2.1	1.8	7.2
21	8.3	1.5	e33	5.1	4.2	31	6.7	11	3.9	1.7	1.6	e39
22	2.7	1.8	5.6	3.3	4.0	6.2	4.3	24	3.1	1.8	1.6	e42
23	2.2	1.6	2.9	12	4.0	4.5	3.8	2.8	2.8	e78	1.5	e68
24	1.9	1.7	2.6	5.3	3.8	3.9	3.9	2.5	2.5	e41	3.0	8.8
25	1.8	2.1	2.2	8.9	3.8	3.7	26	e48	e72	9.4	1.7	24
26	1.9	e77	2.3	9.4	3.9	3.5	6.4	3.6	8.6	12	1.3	25
27	2.0	4.8	2.4	6.5	4.2	14	4.0	2.3	e30	3.0	3.0	5.2
28	1.8	2.4	2.1	6.2	4.3	4.8	e90	3.5	e162	2.3	e180	4.5
29	1.8	2.1	2.1	5.2	3.3	3.2	19	6.4	e77	2.1	3.3	3.7
30	1.7	2.0	2.0	e88	---	6.0	6.0	2.4	5.5	2.1	2.6	3.6
31	1.9	---	2.4	30	---	3.3	---	2.1	---	e20	25	---
TOTAL	192.8	160.3	209.5	389.2	379.0	348.9	557.2	224.0	798.2	319.6	483.8	1392.2
MEAN	6.22	5.34	6.76	12.6	13.1	11.3	18.6	7.23	26.6	10.3	15.6	46.4
MAX	56	77	69	88	94	100	90	48	270	78	180	371
MIN	1.4	1.3	2.0	1.7	3.3	2.7	3.2	2.1	1.6	1.7	1.3	2.7
CFSM	.65	.56	.71	1.31	1.37	1.18	1.94	.76	2.79	1.08	1.63	4.86
IN.	.75	.62	.82	1.52	1.48	1.36	2.17	.87	3.11	1.24	1.88	5.42

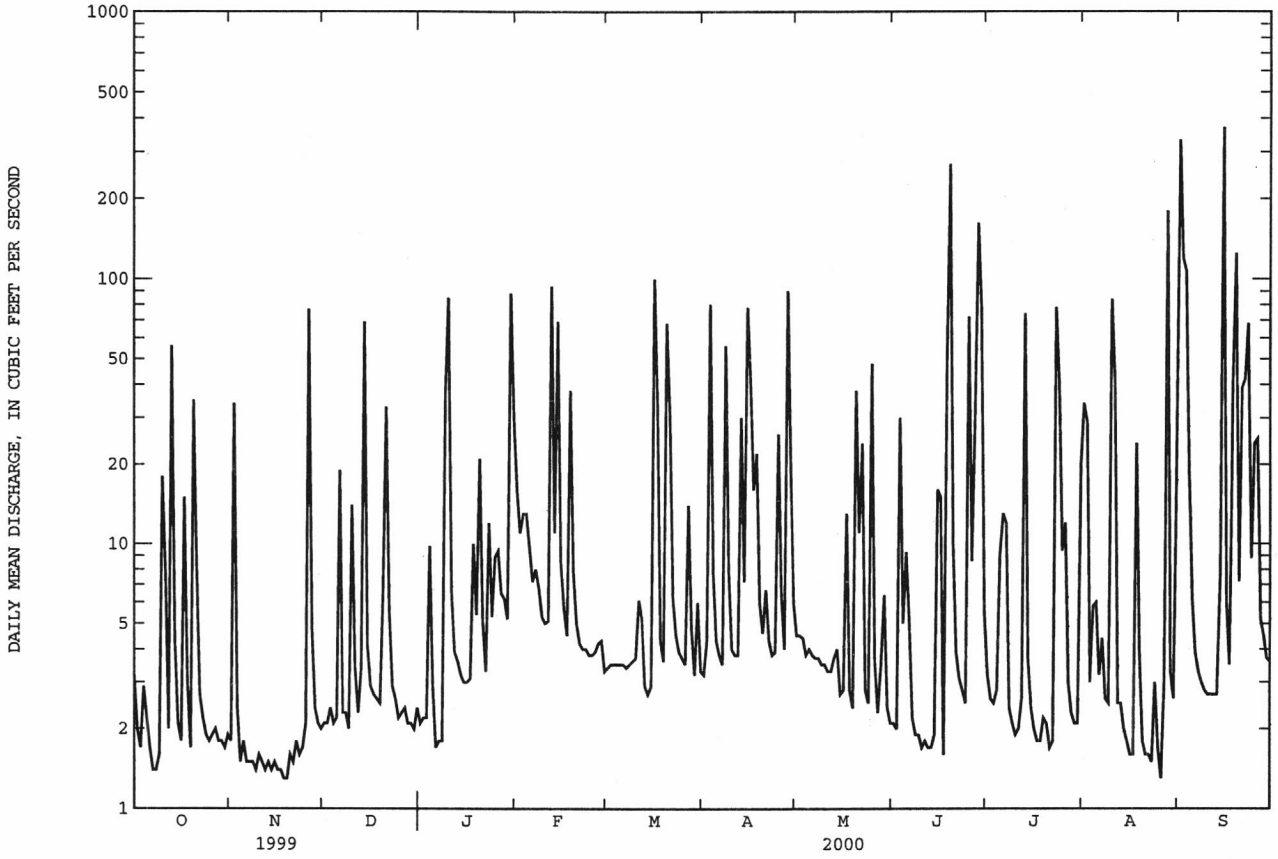
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	6.22	5.34	6.76	12.6	13.1	11.3	18.6	7.23	17.0	10.0	13.8	37.4
MAX	6.22	5.34	6.76	12.6	13.1	11.3	18.6	7.23	26.6	10.3	15.6	46.4
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	6.22	5.34	6.76	12.6	13.1	11.3	18.6	7.23	7.37	9.70	11.9	28.4
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			5454.7			
ANNUAL MEAN			14.9		14.9	
HIGHEST ANNUAL MEAN					14.9	2000
LOWEST ANNUAL MEAN					14.9	2000
HIGHEST DAILY MEAN	184	Sep 5	371	Sep 15	371	Sep 15 2000
LOWEST DAILY MEAN	.58	Aug 12	1.3	Nov 18	.58	Aug 12 1999
ANNUAL SEVEN-DAY MINIMUM	.97	Aug 2	1.4	Nov 13	.97	Aug 2 1999
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			13.00	Sep 15	13.00	Sep 15 2000
INSTANTANEOUS LOW FLOW			1.0	Jun 17	.50*	Aug 12 1999
ANNUAL RUNOFF (CFSM)			1.56		1.56	
ANNUAL RUNOFF (INCHES)			21.25		21.20	
10 PERCENT EXCEEDS	34		38		38	
50 PERCENT EXCEEDS	2.1		3.6		3.3	
90 PERCENT EXCEEDS	1.2		1.7		1.5	

e Estimated.
* See REMARKS.

02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC--Continued



02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--June 1999 to September 2000.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JUNE 1999 TO SEPTEMBER 1999
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.60	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	.00	.00	.00	.00
4	---	---	---	---	---	---	---	---	.00	.00	.00	.27
5	---	---	---	---	---	---	---	---	.00	.00	.00	2.28
6	---	---	---	---	---	---	---	---	.00	.00	.00	.49
7	---	---	---	---	---	---	---	---	.00	1.13	.00	.00
8	---	---	---	---	---	---	---	---	.00	.01	.03	.00
9	---	---	---	---	---	---	---	---	.00	.00	.07	.16
10	---	---	---	---	---	---	---	---	.00	.25	.00	.00
11	---	---	---	---	---	---	---	---	.00	.04	.00	.00
12	---	---	---	---	---	---	---	---	.00	.60	.00	.00
13	---	---	---	---	---	---	---	---	.00	.19	.00	.00
14	---	---	---	---	---	---	---	---	.00	.06	1.80	.00
15	---	---	---	---	---	---	---	---	.00	.00	.01	2.25
16	---	---	---	---	---	---	---	---	.00	.00	.00	.47
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	.00	.00
19	---	---	---	---	---	---	---	---	.00	.00	.64	.00
20	---	---	---	---	---	---	---	---	.00	.39	.58	.00
21	---	---	---	---	---	---	---	---	.00	.27	.03	.10
22	---	---	---	---	---	---	---	---	.00	.01	.00	.01
23	---	---	---	---	---	---	---	---	.00	.00	.00	.00
24	---	---	---	---	---	---	---	---	.00	.50	.00	.00
25	---	---	---	---	---	---	---	---	.00	.00	.73	.00
26	---	---	---	---	---	---	---	---	.00	.00	1.25	.00
27	---	---	---	---	---	---	---	---	.00	.00	.04	1.04
28	---	---	---	---	---	---	---	---	.00	.13	.00	.62
29	---	---	---	---	---	---	---	---	.00	.05	.00	1.73
30	---	---	---	---	---	---	---	---	1.41	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	4.23	5.18	9.42

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.61	1.35
2	.00	.38	.00	.00	.01	.00	.05	.01	.00	.00	.02	.42
3	.00	.00	.00	.00	.09	.00	.78	.00	.94	.00	.00	1.28
4	.08	.00	.00	.20	.00	.00	.04	.00	.02	.03	.24	.11
5	.00	.00	.00	.01	.00	.00	.00	.00	.21	.25	.01	.00
6	.00	.00	.36	.00	.00	.00	.00	.00	.05	.04	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.32	.00
8	.00	.00	.00	.00	.00	.00	.74	.00	.00	.00	.00	.00
9	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00	.00	.00
10	.48	.00	.30	.34	.00	.00	.00	.00	.00	.00	.92	.00
11	.08	.00	.00	.00	.00	.09	.00	.00	.00	.02	.60	.00
12	.00	.00	.00	.00	.50	.01	.00	.00	.00	.02	.00	.00
13	.68	.00	.06	.01	.02	.00	.52	.00	.00	.79	.03	.00
14	.00	.00	.71	.00	.35	.00	.24	.00	.05	.00	.00	.40
15	.00	.00	.00	.00	.00	.00	.80	.00	.47	.00	.00	2.30
16	.00	.00	.00	.00	.00	1.38	.03	.00	.01	.00	.00	.00
17	.33	.00	.00	.00	.00	.02	.29	.30	.00	.00	.00	.00
18	.00	.00	.00	.00	.44	.00	.11	.00	.57	.00	.32	.74
19	.00	.00	.06	.05	.00	.00	.00	.00	2.69	.00	.00	.37
20	.67	.00	.10	.18	.00	.78	.00	.53	.00	.00	.00	.00
21	.00	.01	.42	.00	.00	.05	.06	.02	.00	.00	.00	.23
22	.00	.01	.00	.00	.00	.00	.00	.32	.00	.00	.00	.16
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.51	.00	.29
24	.00	.01	.00	.10	.00	.00	.05	.00	.00	.27	.04	.00
25	.00	.00	.00	.00	.00	.00	.39	.64	.58	.14	.01	.29
26	.00	.91	.00	.00	.00	.00	.09	.00	.00	.24	.00	.06
27	.00	.00	.00	.00	.03	.25	.00	.00	.63	.00	.41	.00
28	.00	.00	.00	.00	.00	.00	.66	.04	1.15	.00	1.30	.00
29	.00	.00	.00	.00	.00	.00	.04	.05	.22	.00	.00	.00
30	.00	.00	.00	.00	---	.10	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.01	---	.00	---	.00	---	.65	.09	---
TOTAL	2.32	1.32	2.01	1.41	1.59	2.68	4.89	1.91	7.59	4.23	4.92	8.00

USGS gaging station Dutchman's Creek near Uwharrie.

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC

LOCATION.--Lat 36°05'32", long 79°46'58", Guilford County, Hydrologic Unit 03030002, on right bank at upstream side of Church Street, and .1 mi upstream of Southern Railway bridge in Greensboro.

DRAINAGE AREA.--14.2 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 738.518 ft above sea level. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for current water year also occurred Jan. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	5.6	4.8	5.1	23	13	8.2	9.6	6.5	9.6	e100	e145
2	9.7	73	4.2	5.6	17	13	11	8.8	6.3	9.1	50	e158
3	10	11	4.1	4.5	19	13	87	9.1	50	8.5	7.7	121
4	11	6.6	5.7	15	20	12	15	8.0	12	10	8.5	29
5	11	9.4	5.8	5.2	15	13	10	7.7	16	15	15	14
6	7.1	10	36	2.9	14	12	9.7	7.9	11	29	7.2	11
7	6.4	9.4	5.1	3.1	16	12	9.1	7.7	6.2	24	17	9.1
8	5.3	7.6	5.1	4.3	13	12	70	7.5	5.7	6.8	7.6	8.4
9	5.6	7.3	5.2	47	11	13	17	7.0	5.6	6.7	7.5	7.9
10	47	7.6	29	84	11	11	10	7.0	6.2	6.1	88	7.6
11	37	7.4	7.7	11	11	13	10	6.9	6.0	6.4	53	6.8
12	8.8	e7.0	7.6	8.6	106	12	8.9	6.8	5.8	7.0	8.0	6.4
13	83	e8.0	7.2	7.3	18	7.2	54	6.8	6.2	88	8.3	6.6
14	8.1	e7.6	79	6.6	79	7.2	14	8.5	7.5	10	6.3	11
15	3.8	e7.0	5.9	8.0	15	7.0	83	6.7	27	6.7	6.1	e250
16	5.1	e7.8	5.1	7.7	12	88	74	6.8	41	6.2	5.7	13
17	36	e9.0	4.5	6.7	11	63	23	25	7.3	e6.0	5.7	10
18	6.7	e8.0	5.2	16	72	11	44	7.3	63	e6.4	40	19
19	4.8	e7.2	5.4	11	18	11	13	6.5	e228	e9.2	9.4	130
20	95	e8.0	9.2	29	15	77	10	41	29	e11	5.9	14
21	24	e9.2	45	8.9	13	58	13	23	10	e5.8	6.0	31
22	5.7	e8.2	10	7.7	14	13	12	37	8.5	e5.2	6.0	77
23	5.8	6.8	6.3	17	13	12	10	7.3	8.0	e135	6.4	102
24	6.7	6.0	5.9	9.0	12	10	9.6	6.9	7.1	e76	8.2	19
25	5.3	e6.6	5.5	14	13	9.5	48	60	60	e20	6.5	43
26	4.7	e100	4.8	14	12	10	14	9.3	20	e38	6.0	46
27	5.8	e10	4.7	10	13	23	9.4	6.9	53	e10	45	13
28	4.8	6.3	4.8	9.3	15	12	91	7.7	e128	e7.2	e142	11
29	4.6	4.6	4.1	9.2	12	9.1	31	13	91	e18	8.9	9.4
30	5.7	4.4	4.2	98	---	13	12	6.5	16	e6.6	8.2	9.0
31	7.3	---	5.0	43	---	8.9	---	6.4	---	e28	37	---
TOTAL	497.8	386.6	342.1	528.7	633	598.9	830.9	386.6	947.9	631.5	737.1	1338.2
MEAN	16.1	12.9	11.0	17.1	21.8	19.3	27.7	12.5	31.6	20.4	23.8	44.6
MAX	95	100	79	98	106	88	91	60	228	135	142	250
MIN	3.8	4.4	4.1	2.9	11	7.0	8.2	6.4	5.6	5.2	5.7	6.4

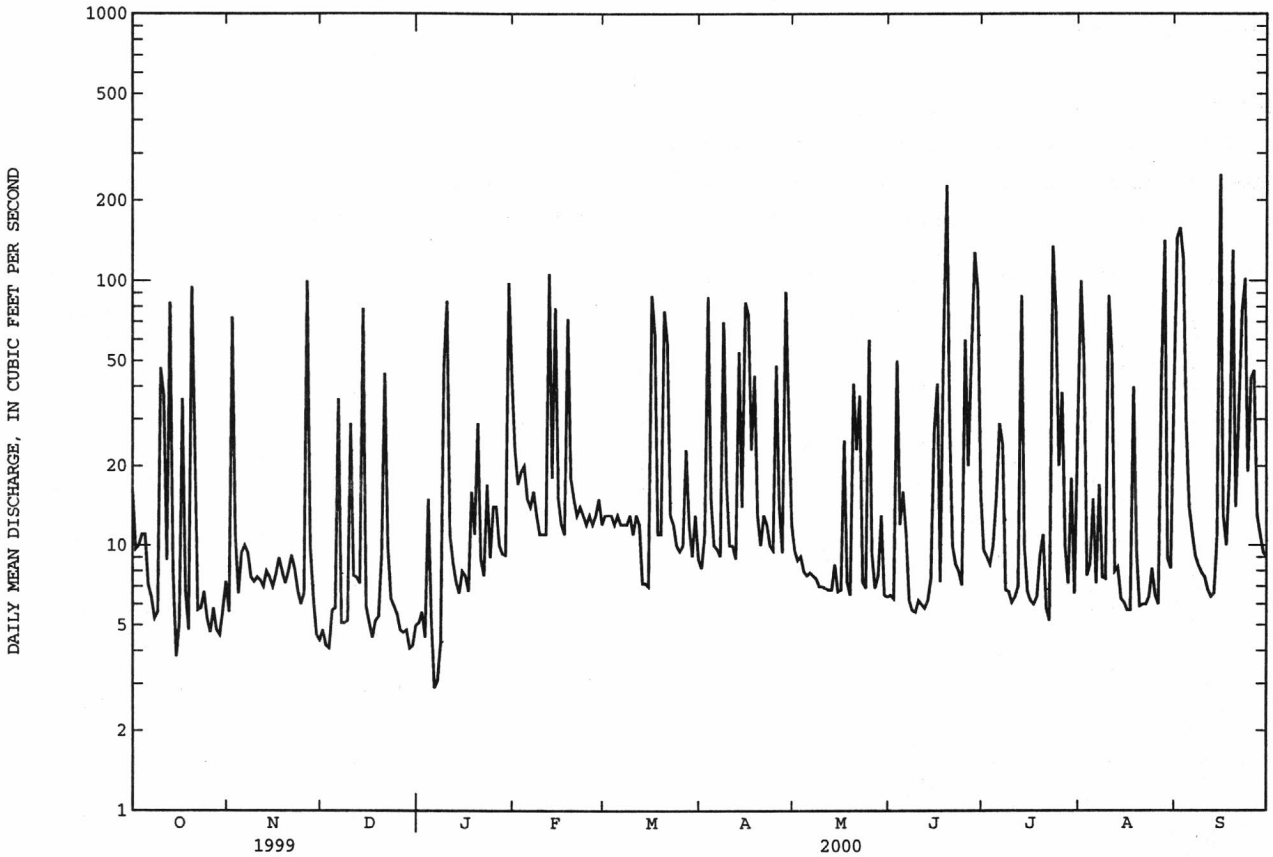
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	10.4	9.65	15.7	23.2	18.2	16.5	25.7	11.5	21.9	18.5	16.3	29.8
MAX	16.1	12.9	20.3	29.4	21.8	19.3	27.7	12.5	31.6	20.4	23.8	44.6
(WY)	2000	2000	1999	1999	2000	2000	2000	2000	2000	2000	2000	2000
MIN	4.71	6.42	11.0	17.1	14.4	13.6	23.7	10.5	12.2	16.7	11.4	8.72
(WY)	1999	1999	2000	2000	1999	1999	1999	1999	1999	1999	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	6390.2		7859.3			
ANNUAL MEAN	17.5		21.5		19.1	
HIGHEST ANNUAL MEAN					21.5	2000
LOWEST ANNUAL MEAN					16.8	1999
HIGHEST DAILY MEAN	205	Jan 24	250	Sep 15	250	Sep 15 2000
LOWEST DAILY MEAN	1.9	Aug 3	2.9	Jan 6	1.5	Oct 28 1998
ANNUAL SEVEN-DAY MINIMUM	2.2	Jul 31	4.7	Dec 26	2.0	Oct 27 1998
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			16.41	Sep 15	16.41	Sep 15 2000
INSTANTANEOUS LOW FLOW			2.8	Jan 6	1.2	Oct 17 1998
10 PERCENT EXCEEDS	47		60		50	
50 PERCENT EXCEEDS	6.4		9.6		7.4	
90 PERCENT EXCEEDS	3.2		5.6		2.9	

e Estimated.

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC--Continued



02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC--Continued

PRECIPITATION RECORDS

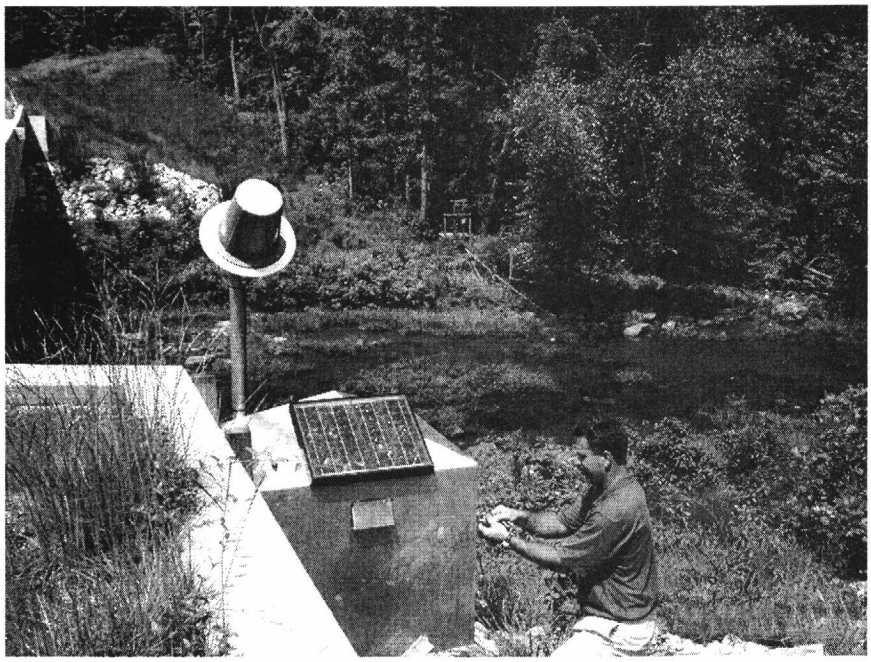
PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	---	.48
2	.00	.42	.00	.00	.04	.00	.06	.00	.00	.00	.02	.70
3	.00	.00	.00	.00	.22	.00	.93	.00	.50	.00	.01	.86
4	.10	.00	.00	.22	.00	.00	.06	.00	.01	.32	.04	.08
5	.00	.00	.00	.00	.00	.00	.00	.00	.21	.25	.00	.00
6	.00	.00	.38	.00	.00	.00	.00	.00	.03	.25	.00	.00
7	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	.22	.00
8	.00	.00	.00	.00	.00	.00	.89	.00	.00	.00	.00	.00
9	.00	.00	.00	.58	.00	.00	.00	.00	.00	.00	.00	.00
10	.52	.00	.31	.64	.00	.00	.00	.00	.00	.00	.79	.00
11	.05	.00	.00	.00	.00	.11	.00	.00	.00	.04	.19	.00
12	.00	.00	.00	.00	.87	.00	.00	.00	.00	.00	.00	.00
13	.86	.00	.07	.01	.02	.00	.68	.00	.00	.80	.23	.00
14	.01	.00	.88	.00	.52	.00	.25	.00	.20	.00	.00	.34
15	.01	.00	.00	.00	.00	.00	1.07	.00	.84	.00	.00	1.77
16	.00	.02	.00	.00	.00	2.00	.03	.00	.06	.00	.00	.00
17	.32	.00	.00	.00	.00	.03	.13	.00	.00	---	.00	.00
18	.00	.00	.00	.00	.50	.00	.00	.00	.88	---	.48	.66
19	.00	.00	.08	.20	.01	.00	.00	.00	3.22	---	.00	.40
20	.72	.00	.13	.42	.00	.87	.00	.63	.28	---	.00	.00
21	.01	.03	.44	.00	.00	.07	.00	.06	.00	---	.00	.89
22	.01	.03	.01	.00	.00	.00	.00	.35	.00	---	.00	.41
23	.00	.01	.01	.03	.00	.00	.00	.00	.00	---	.00	.44
24	.00	.00	.00	.14	.00	.00	.00	.00	.00	---	.04	.00
25	.00	---	.00	.01	.00	.01	.00	.51	.57	---	.00	.46
26	.00	---	.00	.00	.00	.00	.00	.00	.00	---	.00	.04
27	.00	---	.00	.00	.03	.30	.00	.00	.75	---	1.06	.00
28	.00	.01	.00	.01	.00	.00	.00	.06	.93	---	1.83	.00
29	.01	.00	.00	.00	.00	.00	.00	.06	.45	---	.00	.00
30	.00	.04	.00	.06	---	.12	.00	.00	.00	---	.12	.00
31	.00	---	.00	.40	---	.01	---	.00	---	---	.24	---
TOTAL	2.63	---	2.31	2.72	2.40	3.52	4.10	1.67	8.93	---	---	7.53



USGS gaging station at Little River at SR 1461 near Orange Factory.

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC

LOCATION.--Lat 36°07'13", long 79°42'30", Guilford County, Hydrologic Unit 03030002, on left bank at downstream of bridge on Secondary Road 2832, 4.2 mi upstream from mouth, 5.8 mi northeast of post office in Greensboro.

DRAINAGE AREA.--37.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to October 1990, August 1998 to current year.

REVISED RECORDS.--WSP 1303: 1929, 1931-42, monthly and yearly runoff. WSP 1383: 1928(M), 1929, 1933-34(M), 1936(M), 1941(M), 1943(M), 1945(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 678.02 ft above sea level (levels by U. S. Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records fair. Diurnal fluctuation at low flow caused by mills upstream from station. Diversions into basin from Greensboro and Proximity Mills enter upstream from the station. Maximum discharge for period of record, 9,140 ft^3/s, from rating curve extended above 2,900 ft^3/s on basis of contracted-opening measurements at gage heights 14.15 ft, 15.96 ft and 16.63 ft. Maximum gage height for period of record, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	29	31	30	105	36	48	56	34	42	173	141
2	40	83	29	28	81	34	51	49	32	36	176	463
3	36	36	28	29	88	36	211	47	99	34	43	366
4	37	28	29	43	103	35	71	42	58	33	39	142
5	36	27	29	40	115	34	56	39	49	52	47	69
6	32	29	75	28	107	33	51	41	53	84	33	51
7	31	27	34	27	66	33	45	38	34	64	55	44
8	29	27	30	31	58	33	164	41	33	36	41	42
9	29	27	28	111	52	37	91	39	32	32	33	38
10	57	29	62	243	49	37	53	37	33	29	208	36
11	62	27	40	72	46	35	47	36	32	30	102	34
12	33	26	33	58	270	42	46	37	31	30	36	32
13	159	30	32	46	92	33	131	37	30	179	39	31
14	52	30	214	31	249	31	75	41	29	43	37	41
15	35	29	44	33	75	33	189	36	66	32	32	858
16	33	28	33	32	52	172	294	35	137	30	31	66
17	62	29	31	32	49	288	76	68	33	28	30	46
18	41	27	31	46	164	63	156	38	104	29	83	40
19	30	28	29	43	71	56	68	33	912	30	53	362
20	119	28	43	82	53	191	57	73	264	43	31	65
21	74	28	109	47	48	208	55	105	52	29	29	64
22	37	29	56	37	43	70	55	103	37	29	29	276
23	33	28	38	56	42	60	48	36	37	213	29	333
24	32	27	34	44	40	54	48	32	32	154	31	83
25	29	27	32	51	39	52	119	142	90	60	30	112
26	28	173	31	57	37	50	64	47	101	82	29	159
27	28	53	29	53	36	67	51	36	129	42	161	56
28	28	34	30	42	39	60	238	35	286	32	604	47
29	28	29	29	44	38	50	153	47	360	131	61	43
30	29	28	29	248	---	58	71	35	68	35	47	42
31	29	---	30	199	---	48	---	31	---	37	91	---
TOTAL	1382	1080	1352	1963	2307	2069	2882	1512	3287	1760	2463	4182
MEAN	44.6	36.0	43.6	63.3	79.6	66.7	96.1	48.8	110	56.8	79.5	139
MAX	159	173	214	248	270	288	294	142	912	213	604	858
MIN	28	26	28	27	36	31	45	31	29	28	29	31
CFSM	1.20	.97	1.18	1.71	2.14	1.80	2.59	1.31	2.95	1.53	2.14	3.76
IN.	1.39	1.08	1.36	1.97	2.31	2.07	2.89	1.52	3.30	1.76	2.47	4.19

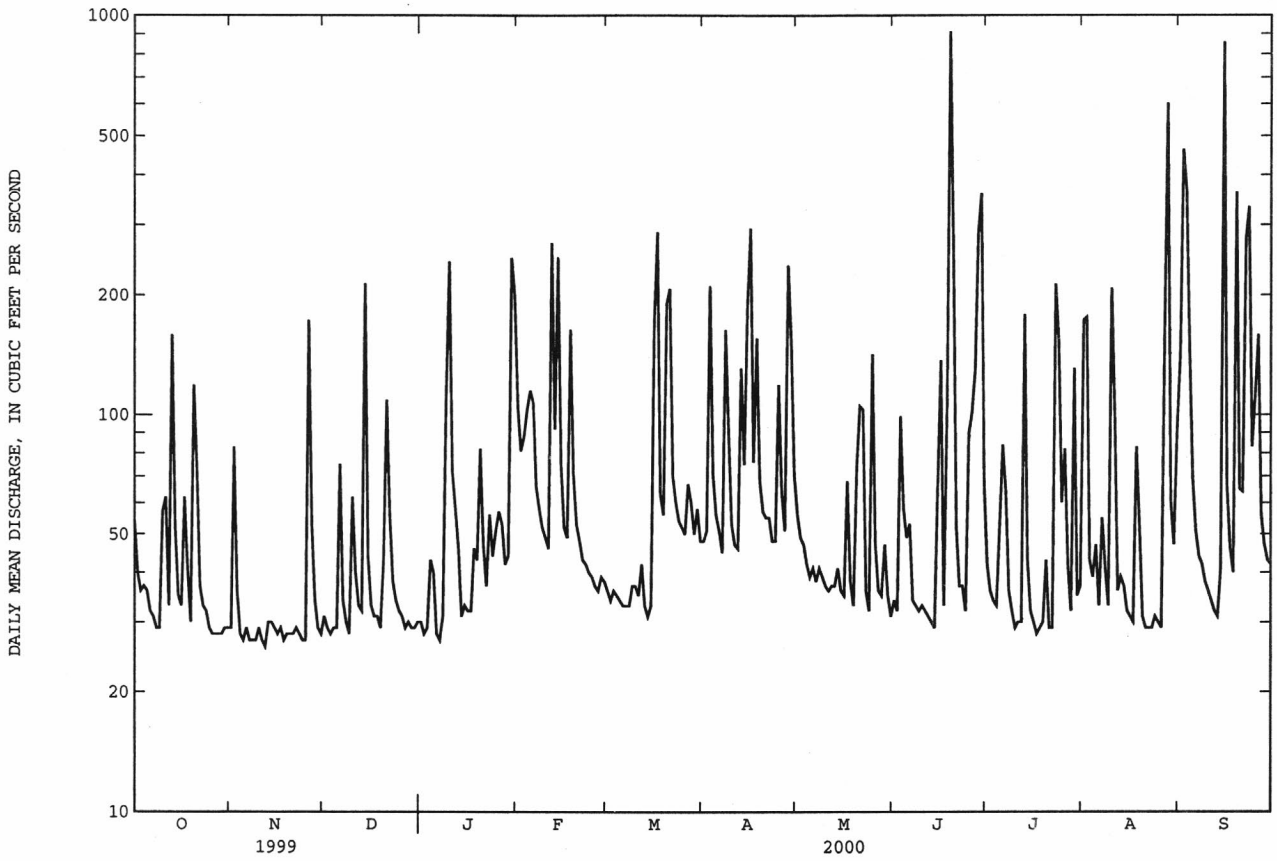
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000@, BY WATER YEAR (WY)

MEAN	42.8	42.8	56.2	71.4	83.5	78.9	66.6	53.0	50.7	51.0	43.4	49.3
MAX	154	120	129	205	185	231	206	177	192	231	112	247
(WY)	1960	1986	1973	1978	1979	1975	1987	1978	1982	1984	1984	1979
MIN	7.71	8.73	13.1	17.3	22.0	31.4	20.3	16.2	10.2	11.2	7.82	8.63
(WY)	1931	1932	1934	1934	1931	1931	1942	1938	1933	1932	1932	1930

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000@	
ANNUAL TOTAL	21548		26239			
ANNUAL MEAN	59.0		71.7		57.2	
HIGHEST ANNUAL MEAN					106	1984
LOWEST ANNUAL MEAN					30.6	1938
HIGHEST DAILY MEAN	754	Apr 30	912	Jun 19	4400	Sep 22 1979
LOWEST DAILY MEAN	22	Sep 3	26	Nov 12	3.4	Aug 28 1932
ANNUAL SEVEN-DAY MINIMUM	24	Aug 1	27	Nov 6	6.2	Aug 28 1930
INSTANTANEOUS PEAK FLOW			2950	Jun 19	9140*	Sep 22 1979
INSTANTANEOUS PEAK STAGE			12.55	Jun 19	20.12*	Sep 22 1979
INSTANTANEOUS LOW FLOW			19	Jul 28	1.6	Aug 28 1932
ANNUAL RUNOFF (CFSM)	1.59		1.93		1.54	
ANNUAL RUNOFF (INCHES)	21.61		26.31		20.95	
10 PERCENT EXCEEDS	115		157		100	
50 PERCENT EXCEEDS	31		42		31	
90 PERCENT EXCEEDS	26		29		16	

@ See PERIOD OF RECORD.
* See REMARKS.

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued



02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC--Continued

PRECIPITATION RECORDS

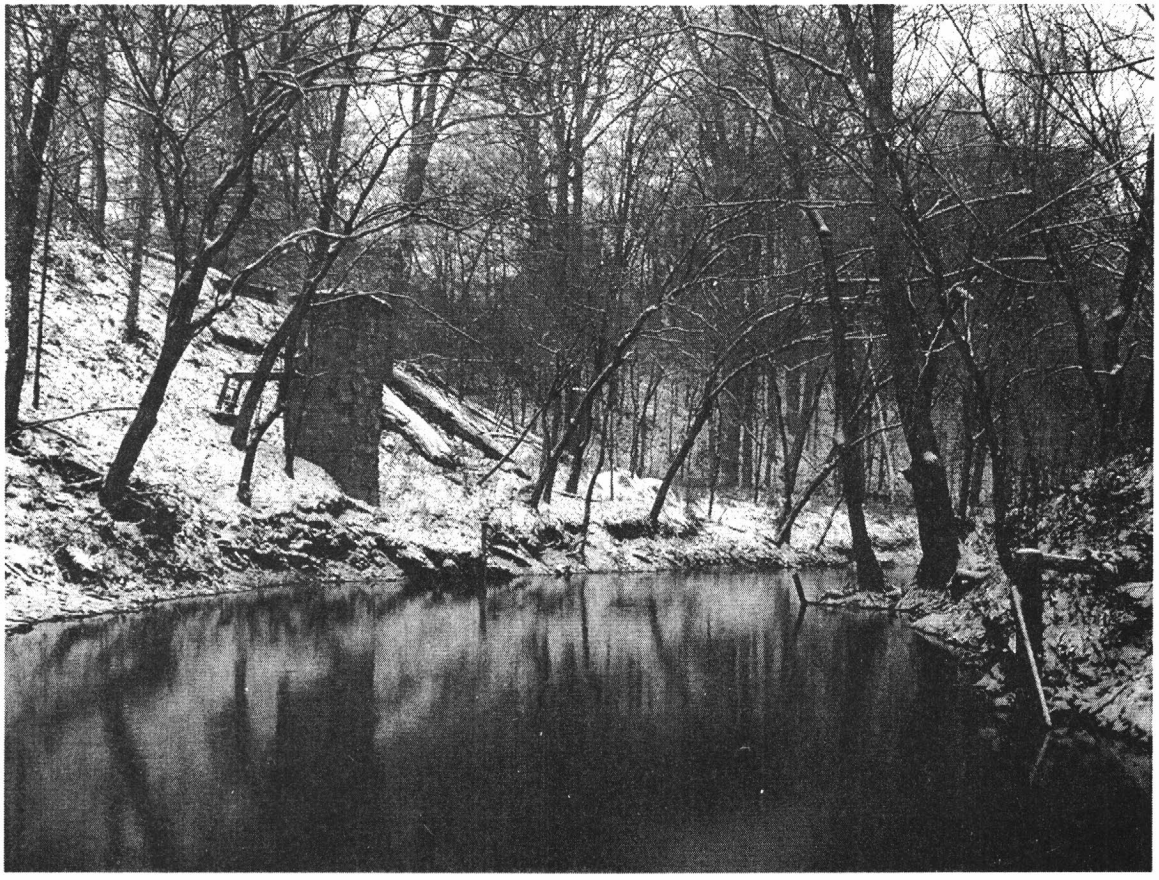
PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	.00	.44	.00	.00	.00	.00	.00	.80	.72
2	---	---	---	.00	.26	.00	.07	.00	.00	.00	.02	.66
3	---	---	---	.00	.32	.00	.71	.00	.10	.00	.00	.51
4	---	---	---	.31	.00	.00	.08	.00	.01	.15	.03	.21
5	---	---	---	.00	.00	.00	.00	.00	.22	.08	.00	.00
6	---	---	---	.00	.00	.00	.00	.00	.02	.12	.00	.00
7	---	---	---	.01	.00	.00	.00	.00	.00	.00	.81	.00
8	---	---	---	.00	.00	.00	.88	.00	.00	.00	.00	.00
9	---	---	---	.61	.00	.00	.00	.00	.00	.00	.00	.00
10	---	---	---	.74	.00	.00	.00	.00	.00	.00	1.13	.00
11	---	---	---	.00	.00	.10	.00	.00	.00	.00	.03	.00
12	---	---	---	.00	.92	.00	.00	.00	.00	.00	.00	.00
13	---	---	---	.01	.03	.00	.96	.03	.00	.78	.16	.00
14	---	---	---	.00	.52	.00	.27	.00	.36	.07	.00	.42
15	---	---	---	.00	.00	.00	.83	.00	.73	.01	.00	.67
16	---	---	---	.00	.00	2.31	.02	.00	.03	.00	.00	.00
17	---	---	---	.00	.00	.08	.01	.24	.00	.00	.00	.00
18	---	---	---	.00	.62	.00	.00	.00	.48	.00	.67	.62
19	---	---	---	.06	.00	.00	.00	.00	2.40	.50	.00	.42
20	---	---	---	.60	.00	.88	.00	.66	.01	.00	.00	.00
21	---	---	---	.00	.00	.09	---	.03	.00	.00	.00	.81
22	---	---	---	.00	.00	.00	---	.35	.01	.03	.00	.51
23	---	---	---	.02	.00	.00	---	.00	.00	.93	.00	.43
24	---	---	---	.10	.00	.00	---	.00	.00	.33	.02	.00
25	---	---	---	.01	.00	.03	---	.44	.58	.25	.00	.50
26	---	---	---	.00	.00	.00	---	.00	.00	.03	.00	.07
27	---	---	---	.00	.01	.29	---	.00	.95	.01	.91	.00
28	---	---	---	.01	.00	.00	---	.06	.70	.34	1.98	.00
29	---	---	---	.00	.00	.00	---	.04	.52	.01	.00	.00
30	---	---	---	.10	---	.14	---	.00	.00	.00	.13	.00
31	---	---	---	.18	---	.00	---	.00	---	.26	.17	---
TOTAL	---	---	---	2.76	3.12	3.92	---	1.85	7.12	3.90	6.86	6.55



Old USGS gaging station at Eno River at Hillsborough.

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC

LOCATION.--Lat 36°07'40", long 79°39'443", Giulford County, Hydrologic Unit 03030002, on left bank of upstream side of bridge on Secondary Road 2819, 300 ft below the confluence of North Buffalo Creek and South Buffalo Creek, and 1.3 mi north of McLeansville.

DRAINAGE AREA.--88.5 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred Jun. 12.

REVISIONS.--The maximum discharge for water year 1999 has been revised to 4,320 ft^3/s, Apr. 30, 1999, gage height, 14.36 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	67	66	68	312	88	71	112	61	102	356	274
2	109	171	70	65	238	84	68	89	59	81	411	1810
3	93	109	68	73	203	83	383	93	89	75	114	1070
4	92	70	68	83	241	79	167	79	134	68	96	391
5	102	67	67	135	207	78	107	78	67	95	108	168
6	85	65	162	75	157	82	82	75	113	143	82	118
7	82	63	89	72	146	83	79	73	61	120	126	99
8	79	62	74	69	152	79	214	73	54	75	124	91
9	76	64	69	152	133	81	307	74	53	70	82	82
10	95	64	122	696	126	79	104	70	52	68	539	75
11	214	65	118	220	119	79	86	69	49	71	211	76
12	92	63	74	117	621	97	78	69	51	71	92	73
13	312	65	73	101	333	77	184	67	52	362	78	73
14	169	62	518	88	615	75	198	67	51	118	88	101
15	88	67	154	84	230	77	327	65	100	80	73	2560
16	75	66	102	82	152	213	758	64	244	69	71	273
17	112	66	88	81	125	1290	189	116	62	67	69	97
18	135	65	82	97	343	156	359	80	74	68	103	86
19	78	65	80	127	205	105	174	63	1590	67	189	954
20	269	64	103	195	134	323	115	66	1610	83	72	170
21	245	64	205	164	115	505	98	269	127	66	68	116
22	105	67	199	100	109	173	105	209	93	65	68	628
23	85	67	107	120	104	120	82	81	85	459	66	956
24	76	66	88	129	97	100	81	68	74	702	67	221
25	71	62	77	127	96	90	227	224	77	186	77	185
26	71	335	72	152	92	78	139	111	352	186	65	504
27	70	180	71	140	87	104	112	66	151	116	173	136
28	68	79	74	114	90	132	453	58	732	87	1650	106
29	68	72	73	108	90	83	455	69	1160	258	163	92
30	67	70	70	492	---	91	170	64	175	87	106	87
31	64	---	68	652	---	80	---	60	---	79	213	---
TOTAL	3519	2512	3351	4978	5672	4864	5972	2821	7652	4244	5800	11672
MEAN	114	83.7	108	161	196	157	199	91.0	255	137	187	389
MAX	312	335	518	696	621	1290	758	269	1610	702	1650	2560
MIN	64	62	66	65	87	75	68	58	49	65	65	73
CFSM	1.28	.95	1.22	1.81	2.21	1.77	2.25	1.03	2.88	1.55	2.11	4.40
IN.	1.48	1.06	1.41	2.09	2.38	2.04	2.51	1.19	3.22	1.78	2.44	4.91

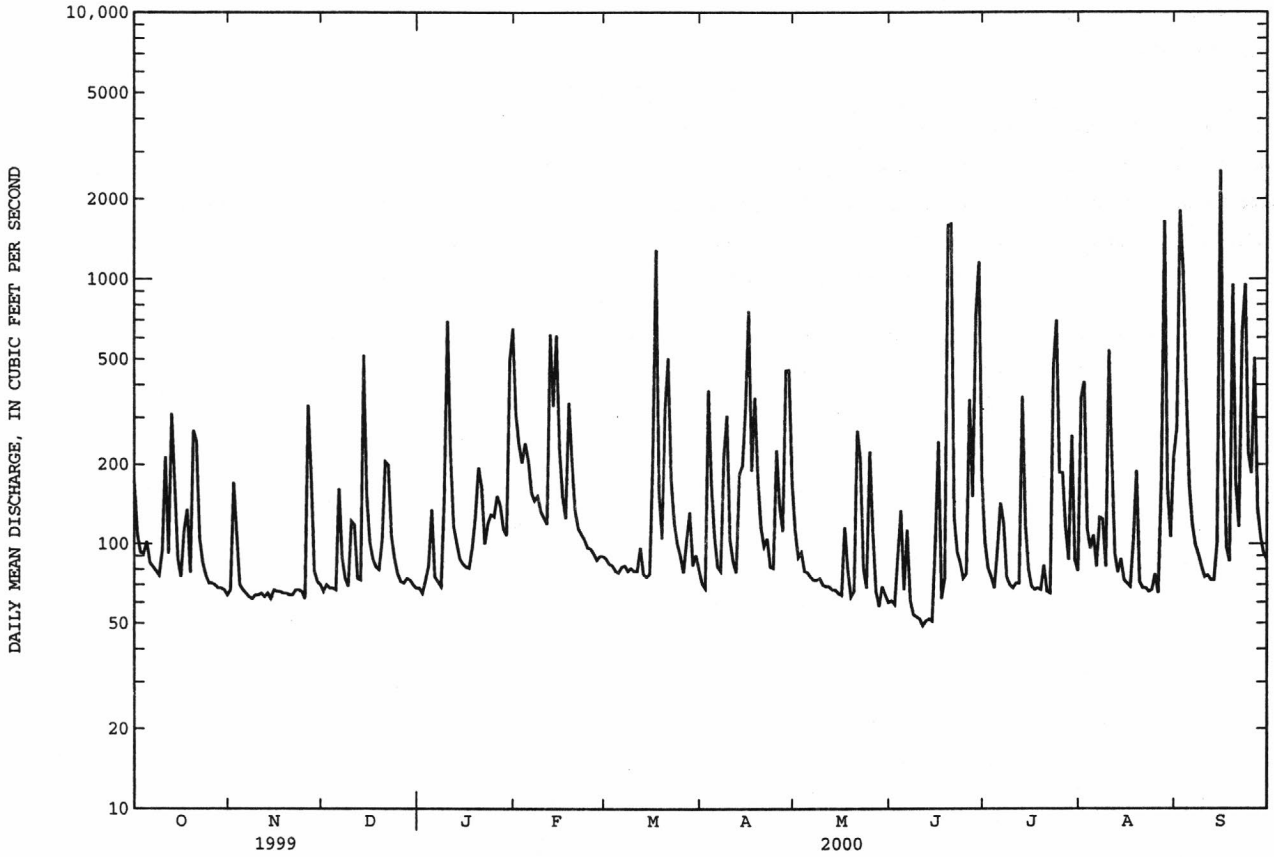
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	85.6	68.4	118	216	149	135	202	96.3	167	130	130	267
MAX	114	83.7	129	271	196	157	204	102	255	137	187	389
(WY)	2000	2000	1999	1999	2000	2000	1999	1999	2000	2000	2000	2000
MIN	57.6	53.1	108	161	100	112	199	91.0	78.5	124	85.9	76.6
(WY)	1999	1999	2000	2000	1999	1999	2000	2000	1999	1999	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	53259		63057			
ANNUAL MEAN	146		172		156	
HIGHEST ANNUAL MEAN					172	2000
LOWEST ANNUAL MEAN					140	1999
HIGHEST DAILY MEAN	2920	Apr 30	2560	Sep 15	2920	Apr 30 1999
LOWEST DAILY MEAN	46	Feb 14	49	Jun 11	42	Nov 22 1998
ANNUAL SEVEN-DAY MINIMUM	55	Aug 2	52	Jun 8	45	Nov 19 1998
INSTANTANEOUS PEAK FLOW			5770	Jun 20	5770	Jun 20 2000
INSTANTANEOUS PEAK STAGE			16.90	Jun 20	16.90	Jun 20 2000
INSTANTANEOUS LOW FLOW			35*	Jun 11	28	Nov 8 1998
ANNUAL RUNOFF (CFSM)	1.65		1.95		1.77	
ANNUAL RUNOFF (INCHES)	22.39		26.51		24.01	
10 PERCENT EXCEEDS	230		329		266	
50 PERCENT EXCEEDS	73		90		75	
90 PERCENT EXCEEDS	59		66		53	

See REMARKS.

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC--Continued



0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC--Continued

PRECIPITATION RECORDS

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

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	1.05	.65
2	.01	.50	.00	.00	.05	.00	.07	.00	.00	.00	.02	.27
3	.00	.00	.00	.03	.14	.00	.68	.00	.07	.00	.04	1.03
4	.07	.00	.00	.37	.00	.00	.10	.00	.02	.12	.04	.18
5	.01	.00	.01	.00	.00	.00	.00	.00	.31	.11	.07	.00
6	.00	.00	.36	.00	.00	.00	.00	.00	.01	.07	.00	.04
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.20	.00
8	.01	.00	.00	.00	.00	.00	.92	.00	.00	.01	.00	.00
9	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.51	.00	.35	.00	.00	.00	.00	.00	.00	.00	1.02	.00
11	.05	.00	.00	.00	.00	.26	.00	.00	.00	.79	.05	.00
12	.00	.00	.00	.00	.90	.00	.00	.00	.00	.42	.00	.00
13	.79	.00	.09	.00	.04	.00	1.12	.08	.00	1.74	.13	.00
14	.00	.00	.84	.00	.49	.00	.37	.00	.23	.01	.01	.44
15	.01	.00	.00	.00	.00	.00	1.14	.00	.54	.01	.00	.58
16	.00	.00	.00	.00	.00	2.38	.06	.00	.08	.03	.00	.00
17	.38	.00	.00	.00	.00	.07	.52	.21	.00	.00	.00	.01
18	.00	.00	.00	.00	.66	.00	.20	.00	.71	.00	.69	.74
19	.00	.00	.07	.22	.00	.00	.00	.00	2.46	.53	.00	.56
20	.96	.00	.13	.52	.00	.89	.00	.95	.01	.01	.01	.01
21	.00	.00	.45	.00	.00	.12	.07	.11	.00	.00	.00	.59
22	.01	.08	.02	.00	.00	.00	.00	.47	.01	.04	.00	.56
23	.00	.01	.01	.03	.00	.00	.00	.00	.00	1.46	.00	.48
24	.00	.01	.01	.07	.00	.00	.13	.00	.00	.36	.04	.00
25	.00	.00	.00	.15	.00	.05	.52	.57	.44	.79	.00	.56
26	.00	1.37	.00	.00	.00	.01	.09	.00	.00	.09	.00	.07
27	.01	.00	.00	.00	.01	.32	.01	.00	2.09	.01	.85	.00
28	.00	.00	.00	.00	.00	.01	1.26	.09	.75	.12	2.85	.00
29	.00	.00	.00	.00	.00	.00	.14	.05	.65	.03	.00	.00
30	.00	.00	.00	.00	---	.15	.00	.01	.01	.00	.15	.00
31	.00	---	.00	.15	---	.00	---	.00	---	.11	.23	---
TOTAL	2.83	1.97	2.34	1.54	2.54	4.26	7.40	2.54	8.39	6.86	8.45	6.77

USGS gaging station at Long Creek near Rhyne.

02096500 HAW RIVER AT HAW RIVER, NC

LOCATION.--Lat 36°05'13", long 79°22'02", Alamance County, Hydrologic unit 03030002, on left bank at Haw River, 650 ft downstream of Southern Railway bridge, 800 ft downstream of bridge on U.S. Highway 70 and State Highway 49, and 3 mi downstream of Stony Creek.

DRAINAGE AREA.--606 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 757: 1929 (M). WSP 782: 1934. WSP 1383: 1930,1932(M), 1933(m), 1936, 1943, 1944 (M), 1947(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 471.69 ft above sea level. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuations and occasional regulation at low flows. City of Burlington diverted an average of 4.0 ft^3/s from two Stony Creek Reservoirs (stations 02096003 and 02096432) for municipal water supply, about half of which was returned upstream of station as treated effluent, the remainder was returned downstream of station. Maximum discharge for period of record from rating curve extended above 38,000 ft^3/s, by logarithmic plotting; maximum gage height, 32.83 ft, from flood mark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3260	188	293	230	2210	305	332	976	194	431	294	350
2	1810	290	257	228	1580	311	307	691	178	257	583	2130
3	1030	464	244	221	997	299	496	500	165	192	335	2440
4	686	268	230	262	1090	284	1640	414	241	160	232	2460
5	444	219	225	476	1060	272	779	342	219	150	376	1770
6	339	203	239	432	885	270	559	304	221	169	229	825
7	282	194	356	303	784	266	422	277	236	201	169	411
8	246	190	252	274	809	263	431	250	182	180	211	283
9	226	188	230	279	812	262	1120	230	160	130	161	227
10	225	186	239	1810	704	261	668	214	149	121	544	194
11	339	186	376	2190	638	260	505	196	136	114	621	172
12	358	184	302	935	1180	278	413	185	129	118	322	161
13	363	179	261	652	2650	274	561	174	127	151	195	149
14	760	182	961	481	2390	240	972	163	125	586	162	140
15	347	183	1070	521	1990	232	999	160	172	202	150	1390
16	272	185	547	334	1320	330	3510	153	760	173	126	4450
17	253	175	446	311	868	3250	1680	153	465	140	116	2350
18	472	171	358	308	954	1300	1920	203	247	125	108	1250
19	289	164	327	337	1300	774	1540	167	416	118	201	1460
20	443	166	302	453	970	1030	857	154	3270	124	154	1310
21	1130	163	552	747	607	2210	647	328	495	127	111	880
22	550	183	899	411	492	1220	533	345	237	106	106	1270
23	371	189	527	553	430	956	430	354	189	201	103	2060
24	294	213	446	409	390	791	360	234	162	1450	99	1130
25	258	213	395	463	368	579	459	243	143	699	97	723
26	235	572	339	498	354	487	700	447	384	356	185	1260
27	223	1510	318	472	341	427	1190	225	231	307	128	677
28	216	604	295	589	495	550	1260	188	1240	203	1860	449
29	199	463	269	483	338	472	3000	273	2450	263	1330	365
30	199	366	253	786	---	396	1450	255	1460	223	300	274
31	192	---	236	2800	---	377	---	214	---	143	255	---
TOTAL	16311	8641	12044	19248	29006	19226	29740	9012	14783	7920	9863	33010
MEAN	526	288	389	621	1000	620	991	291	493	255	318	1100
MAX	3260	1510	1070	2800	2650	3250	3510	976	3270	1450	1860	4450
MIN	192	163	225	221	338	232	307	153	125	106	97	140
CFSM	.87	.48	.64	1.02	1.65	1.02	1.64	.48	.81	.42	.53	1.82
IN.	1.00	.53	.74	1.18	1.78	1.18	1.83	.55	.91	.49	.61	2.03

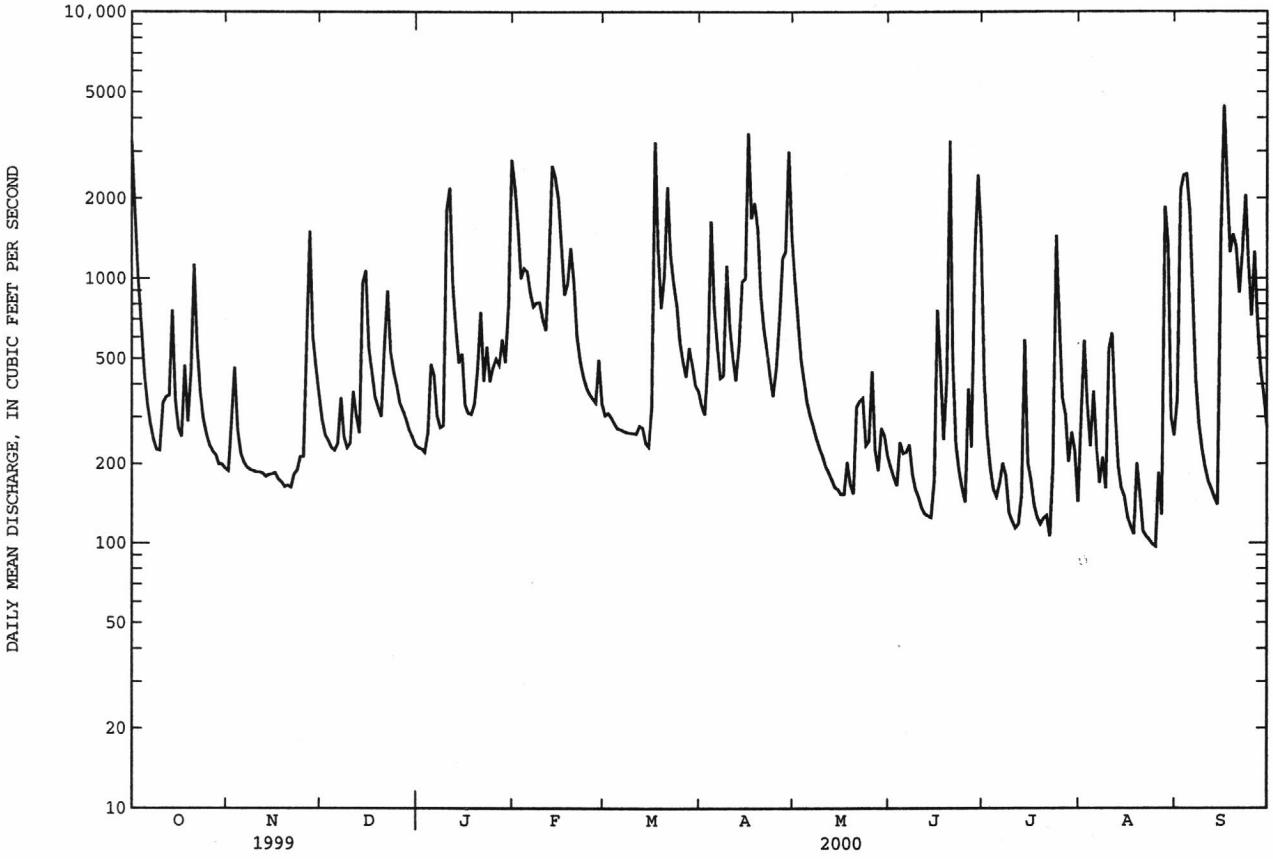
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	395	405	570	912	1016	1016	826	490	420	392	353	430
MAX	2480	1286	1487	2977	2492	3276	2771	1948	2145	2348	1662	4373
(WY)	1960	1948	1946	1937	1998	1993	1987	1978	1982	1984	1939	1996
MIN	48.9	61.1	118	172	272	289	184	139	101	70.9	57.2	33.4
(WY)	1942	1954	1934	1956	1931	1967	1967	1986	1986	1932	1953	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	194160		208804			
ANNUAL MEAN	532		571		600	
HIGHEST ANNUAL MEAN					1082	1996
LOWEST ANNUAL MEAN					229	1967
HIGHEST DAILY MEAN	8420	Sep 16	4450	Sep 16	42000	Sep 7 1996
LOWEST DAILY MEAN	79	Aug 13	97	Aug 25	5.0	Sep 6 1930
ANNUAL SEVEN-DAY MINIMUM	84	Aug 4	118	Aug 21	16	Oct 7 1954
INSTANTANEOUS PEAK FLOW			5200	Sep 16	51400*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			12.14	Sep 16	32.83*	Sep 6 1996
INSTANTANEOUS LOW FLOW			90	Aug 25	3.0	Sep 5 1930
ANNUAL RUNOFF (CFSM)	.88		.94		.99	
ANNUAL RUNOFF (INCHES)	11.92		12.82		13.45	
10 PERCENT EXCEEDS	1030		1310		1250	
50 PERCENT EXCEEDS	272		328		297	
90 PERCENT EXCEEDS	109		160		102	

* See REMARKS.

02096500 HAW RIVER AT HAW RIVER, NC--Continued



02096500 HAW RIVER AT HAW RIVER, NC--Continued

PRECIPITATION RECORDS

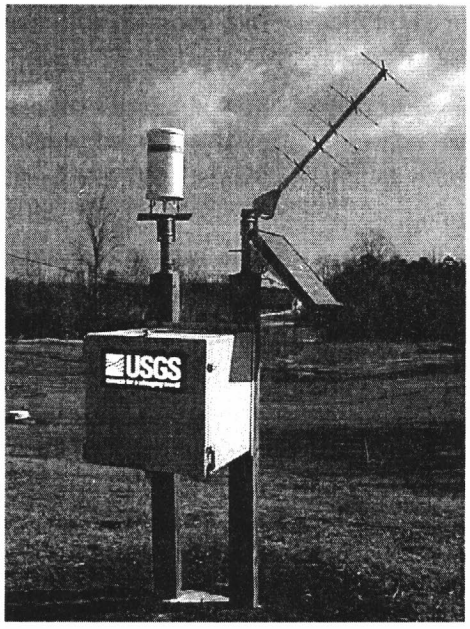
PERIOD OF RECORD.--October 1998 to current year.

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.37	.00	.00	.00	.00	.00	.02	.01
2	.00	.57	.00	.00	.08	.00	.02	.00	.00	.00	.02	.05
3	.00	.00	.00	.00	.15	.00	.37	.00	.00	.00	.03	1.17
4	.01	.00	.00	.59	.00	.00	.03	.00	.00	.05	.04	.01
5	.00	.00	.00	.00	.00	.00	.00	.00	.17	.01	.08	.00
6	.00	.00	.04	.00	.00	.00	.00	.00	.01	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
8	.00	.00	.00	.00	.00	.00	.91	.00	.00	.00	.00	.00
9	.00	.00	.00	.43	.00	.00	.00	.00	.00	.00	.00	.00
10	.24	.00	.32	.76	.00	.00	.00	.00	.00	.00	1.33	.00
11	.09	.00	.00	.00	.00	.23	.00	.00	.00	.00	.23	.00
12	.00	.00	.00	.00	.85	.00	.00	.00	.00	.00	.32	.00
13	.41	.00	.05	.00	.02	.00	.77	.00	.00	.21	.23	.00
14	.00	.00	1.05	.00	.37	.00	.24	.00	.22	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.36	.00	.79	.02	.00	.00
16	.00	.00	.00	.00	.00	1.28	.11	.00	.11	.01	.00	.00
17	.32	.00	.00	.00	.00	.06	.33	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.55	.00	.11	.00	.10	.01	.03	.12
19	.00	.00	.02	.03	.00	.00	.00	.00	.44	.03	.00	.11
20	.76	.00	.17	.66	.00	.87	.00	.18	.21	.01	.00	.00
21	.01	.06	.27	.00	.00	.03	.00	.00	.00	.00	.00	.01
22	.00	.22	.03	.00	.00	.00	.00	.48	.00	.01	.00	.16
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.02
24	.00	.00	.00	.15	.00	.00	.03	.00	.00	.03	.00	.01
25	.00	.00	.00	.00	.00	.07	.35	.43	.00	.05	.00	.01
26	.00	.73	.00	.00	.00	.00	.47	.00	.00	.05	.00	.00
27	.00	.00	.00	.00	.10	.17	.00	.00	.40	.00	.37	.01
28	.00	.00	.00	.00	.00	.00	.72	.04	.07	.00	1.14	.00
29	.00	.00	.00	.00	.00	.00	.00	.09	.06	.02	.02	.00
30	.00	.00	.00	.87	---	.05	.00	.00	.01	.01	.12	.00
31	.00	---	.00	.18	---	.00	---	.00	---	.01	.11	---
TOTAL	1.84	1.58	1.95	3.67	2.49	2.76	4.82	1.22	2.59	0.60	4.10	1.69



USGS raingage at Statesville.

02096846 CANE CREEK NEAR ORANGE GROVE, NC

LOCATION.--Lat 35°59'13", long 79°12'23", Orange County, Hydrologic Unit 03030002, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove.

DRAINAGE AREA.--7.54 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 510 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 500 ft^3/s, based on contracted-opening measurement of peak flow; maximum gage-height, 7.90 ft, from flood mark. No flow occurs at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

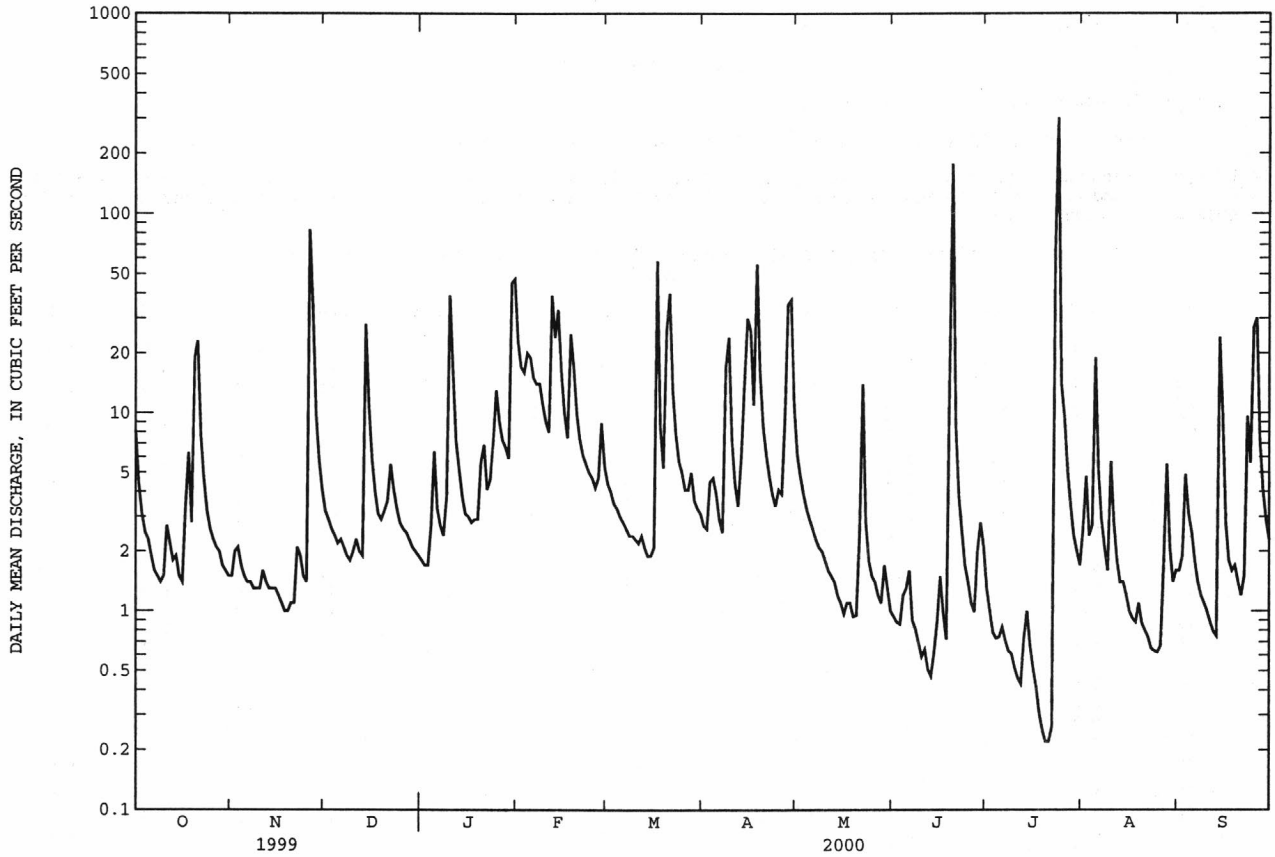
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	1.5	3.2	1.8	23	4.4	2.7	6.2	.94	1.3	2.6	1.6
2	4.4	2.0	2.9	1.7	17	4.0	2.6	4.8	.88	1.0	4.8	1.9
3	3.1	2.1	2.6	1.7	16	3.5	4.5	3.9	.86	.78	2.4	4.9
4	2.5	1.7	2.4	2.7	20	3.3	4.7	3.3	1.2	.73	2.7	3.1
5	2.3	1.5	2.2	6.4	19	3.0	3.9	2.9	1.3	.74	19	2.5
6	1.9	1.4	2.3	3.3	15	2.8	2.9	2.6	1.6	.83	5.1	1.8
7	1.6	1.4	2.1	2.7	14	2.6	2.5	2.3	.90	.71	2.9	1.4
8	1.5	1.3	1.9	2.4	14	2.4	17	2.1	.81	.63	2.1	1.2
9	1.4	1.3	1.8	3.8	11	2.4	24	2.0	.69	.61	1.6	1.1
10	1.5	1.3	2.0	39	9.0	2.3	7.4	1.8	.59	.52	5.7	1.0
11	2.7	1.6	2.3	16	8.0	2.2	4.4	1.6	.64	.46	2.8	.88
12	2.2	1.4	2.0	7.2	39	2.4	3.4	1.5	.51	.43	1.8	.79
13	1.8	1.3	1.9	5.2	24	2.1	6.0	1.4	.47	.73	1.4	.75
14	1.9	1.3	28	3.8	33	1.9	14	1.2	.62	1.0	1.4	24
15	1.5	1.3	11	3.1	16	1.9	30	1.1	.89	.67	1.2	9.9
16	1.4	1.2	5.9	3.0	10	2.1	26	.97	1.5	.51	1.0	2.8
17	3.3	1.1	4.0	2.8	7.5	58	11	1.1	.99	.41	.92	1.8
18	6.3	1.0	3.1	2.9	25	8.6	56	1.1	.72	.30	.88	1.6
19	2.8	1.0	2.9	2.9	17	5.3	16	.94	15	.25	1.1	1.7
20	19	1.1	3.2	5.6	9.9	26	8.6	.95	178	.22	.87	1.4
21	23	1.1	3.6	6.9	7.3	40	6.2	2.4	8.7	.22	.80	1.2
22	7.7	2.1	5.5	4.1	6.1	13	4.8	14	3.8	.26	.74	1.5
23	4.6	1.9	4.1	4.6	5.5	7.8	3.9	2.8	2.5	64	.65	9.6
24	3.2	1.5	3.3	7.2	5.0	5.7	3.4	1.8	1.7	302	.63	5.6
25	2.6	1.4	2.8	13	4.7	5.0	4.1	1.5	1.4	14	.62	27
26	2.3	83	2.6	9.1	4.2	4.1	3.9	1.4	1.1	9.5	.67	30
27	2.1	34	2.5	7.3	4.7	4.1	9.6	1.2	.99	5.1	1.7	7.4
28	2.0	9.9	2.3	6.7	8.9	5.0	35	1.1	2.0	3.4	5.5	4.1
29	1.7	5.8	2.1	5.9	5.4	3.6	37	1.7	2.8	2.4	2.1	2.9
30	1.6	4.1	2.0	45	---	3.3	11	1.3	2.1	2.0	1.4	2.3
31	1.5	---	1.9	47	---	3.1	---	1.0	---	1.7	1.6	---
TOTAL	123.5	172.6	120.4	274.8	399.2	235.9	366.5	73.96	236.20	417.41	78.68	157.72
MEAN	3.98	5.75	3.88	8.86	13.8	7.61	12.2	2.39	7.87	13.5	2.54	5.26
MAX	23	83	28	47	39	58	56	14	178	302	19	30
MIN	1.4	1.0	1.8	1.7	4.2	1.9	2.5	.94	.47	.22	.62	.75
CFSM	.53	.76	.52	1.18	1.83	1.01	1.62	.32	1.04	1.79	.34	.70
IN.	.61	.85	.59	1.36	1.97	1.16	1.81	.36	1.17	2.06	.39	.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	2.66	3.72	5.09	14.3	13.7	19.1	9.63	5.71	4.43	2.83	1.09	5.01
MAX	8.72	15.5	11.2	28.3	34.3	46.3	16.7	18.7	16.4	13.5	4.47	25.9
(WY)	1996	1996	1997	1998	1998	1998	1993	1989	1995	2000	1995	1996
MIN	.005	.009	.75	3.89	3.93	2.83	1.47	1.07	.49	.16	.044	.018
(WY)	1999	1999	1992	1989	1999	1999	1995	1999	1999	1999	1997	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	1829.46		2656.87			
ANNUAL MEAN	5.01		7.26		7.08	
HIGHEST ANNUAL MEAN					10.8	1998
LOWEST ANNUAL MEAN					3.97	1999
HIGHEST DAILY MEAN	245	Sep 16	302	Jul 24	516	Mar 4 1993
LOWEST DAILY MEAN	.00	Aug 3	.22	Jul 20	.00	Sep 17 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 2	.31	Jul 16	.00	Sep 17 1990
INSTANTANEOUS PEAK FLOW			903	Jul 24	2060	Sep 6 1996
INSTANTANEOUS PEAK STAGE			5.50	Jul 24	7.90	Sep 6 1996
INSTANTANEOUS LOW FLOW			.20	Jul 21	.00	Sep 17 1990
ANNUAL RUNOFF (CFSM)	.66		.96		.94	
ANNUAL RUNOFF (INCHES)	9.03		13.11		12.75	
10 PERCENT EXCEEDS	7.7		16		14	
50 PERCENT EXCEEDS	1.5		2.5		2.1	
90 PERCENT EXCEEDS	.09		.87		.10	

02096846 CANE CREEK NEAR ORANGE GROVE, NC--Continued



02096846 CANE CREEK NEAR ORANGE GROVE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT										
20...	1430	41	761	89	9.0	6.6	89	14.7	27	6.16
DEC										
09...	1230	1.8	762	101	12.2	6.8	80	7.0	25	5.84
MAR										
02...	0930	4.0	750	95	10.5	6.8	72	10.1	22	5.28
APR										
13...	1015	3.1	761	89	9.3	6.3	64	13.3	21	5.32
JUN										
22...	1130	3.4	755	89	7.8	6.5	58	21.2	17	4.24
SEP										
14...	1300	.73	751	87	7.5	6.9	101	22.2	32	8.06

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT										
20...	2.74	4.5	.3	4.0	21	19	23	6.8	<.1	11.5
DEC										
09...	2.52	1.2	.4	4.6	27	22	27	6.7	<.1	16.3
MAR										
02...	2.05	.8	.4	4.6	31	20	24	5.9	<.1	12.1
APR										
13...	1.96	.7	.4	4.5	31	--	--	4.7	<.1	11.6
JUN										
22...	1.66	1.2	.3	3.2	27	10	12	3.8	<.1	10.7
SEP										
14...	2.92	1.6	.4	5.4	26	31	38	6.4	<.1	15.9

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
20...	4.5	1.5	.061	2.1	.542	.002	1.5	.152	.311	12
DEC										
09...	4.1	.22	.009	.98	.760	.002	.21	<.001	<.050	4.8
MAR										
02...	3.8	.21	.007	.80	.591	.004	.20	.009	<.050	4.0
APR										
13...	3.3	.35	.013	.73	.377	.003	.34	.007	E.034	6.1
JUN										
22...	4.1	<.10	.018	--	.465	.003	--	.018	<.050	11
SEP										
14...	2.3	.24	.012	1.1	.890	.002	.22	.029	E.048	4.2

02096846 CANE CREEK NEAR ORANGE GROVE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT										
20...	140	75	628	<3	<.1	<1	E1	2	1880	1
DEC										
09...	30	65	--	--	--	--	--	--	--	--
MAR										
02...	40	55	--	--	--	--	--	--	--	--
APR										
13...	60	47	124	<3	<.1	<1	E1	E1	920	<1
JUN										
22...	140	64	--	--	--	--	--	--	--	--
SEP										
14...	30	73	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
20...	363	<.3	<1	<2	<3	<1	<31	66	7.3
DEC									
09...	--	--	--	--	--	--	--	3	.02
MAR									
02...	--	--	--	--	--	--	--	4	.04
APR									
13...	54	<.3	<1	<2	<3	<1	E18	10	.08
JUN									
22...	--	--	--	--	--	--	--	22	.20
SEP									
14...	--	--	--	--	--	--	--	2	.00

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC

LOCATION.--Lat 35°56'59", long 79°14'29", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross.

DRAINAGE AREA.--31.4 mi^2.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
28...	1100	763	60	5.8	6.7	71	16.4	22	5.29	2.21	2.8
28...	1101	763	41	4.1	6.7	75	15.8	--	--	--	--
28...	1102	763	2	.3	7.1	151	10.6	--	--	--	--
APR											
19...	1030	751	102	9.8	6.5	63	16.4	21	4.86	2.10	1.7
19...	1031	751	14	1.6	6.1	69	8.1	--	--	--	--
19...	1032	751	21	2.4	6.1	66	10.3	--	--	--	--
JUL											
18...	1130	751	93	7.1	8.4	76	29.1	23	5.46	2.25	1.8
18...	1135	751	2	.3	5.8	90	11.6	--	--	--	--
18...	1136	751	6	.6	6.4	142	9.5	--	--	--	--
SEP											
27...	0930	755	77	6.8	6.6	66	21.2	20	4.67	1.99	2.4
27...	0931	755	49	4.3	6.3	69	20.9	--	--	--	--
27...	0932	755	3	.3	6.2	101	14.3	--	--	--	--

DATE	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT											
28...	.3	2.9	20	22	26	4.9	<.1	7.3	4.0	.83	.247
28...	--	--	--	--	--	--	--	--	--	.66	.245
28...	--	--	--	--	--	--	--	--	--	3.1	2.27
APR											
19...	.3	3.6	25	--	--	5.2	<.1	6.7	4.1	.58	.025
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	.4	4.0	26	21	26	5.1	<.1	7.2	3.2	.92	.019
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	.3	2.9	21	17	21	4.0	<.1	7.2	2.3	.76	.032
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLOR (PLATINUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	TRANSPARENCY (SECCHI DISK) (M) (00078)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)
OCT											
28...	.95	.118	.014	.59	.088	E.043	11	55	75	1.45	8.1
28...	.82	.155	.015	.42	<.001	E.031	--	--	--	--	--
28...	--	<.005	.001	.83	<.001	.250	--	--	--	--	--
APR											
19...	.81	.233	.005	.55	<.001	<.050	6.6	30	53	1.75	E1.6
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	<.005	.001	.90	.001	--	10	38	59	1.25	15.4
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	.81	.048	.003	.73	.001	E.031	8.5	40	50	1.20	7.4
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT											
28...	<.1	121	<3	<.1	E1	<2	2	560	<1	761	<.3
28...	--	--	--	--	--	--	--	580	--	813	--
28...	--	--	--	--	--	--	--	15400	--	5450	--
APR											
19...	<.1	45	3	<.1	<1	<2	E1	410	<1	85	<.3
19...	--	--	--	--	--	--	--	6050	--	1270	--
19...	--	--	--	--	--	--	--	850	--	467	--
JUL											
18...	E.2	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	800	--	2340	--
18...	--	--	--	--	--	--	--	10400	--	2410	--
SEP											
27...	<.1	--	--	--	--	--	--	240	--	336	--
27...	--	--	--	--	--	--	--	230	--	337	--
27...	--	--	--	--	--	--	--	3880	--	3370	--

DATE	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)
OCT											
28...	<1	<2	<3	<1	<31	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	<1	E1	<3	<1	<31	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	--	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

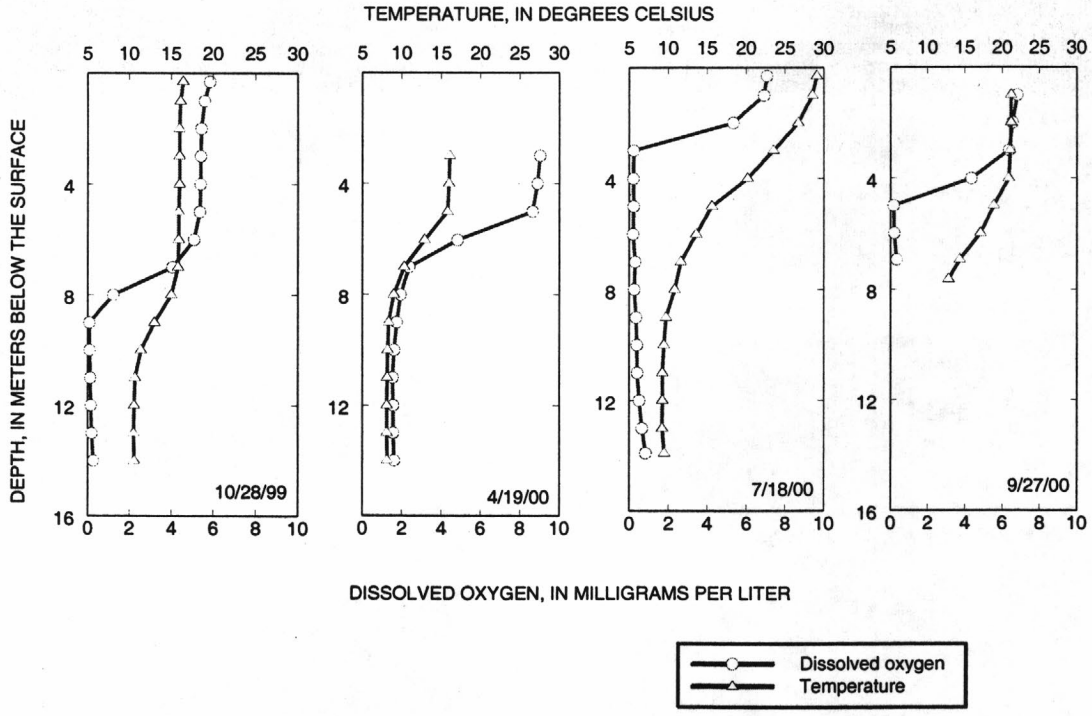
DATE	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	<3.0	<3.00	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHYL-BENZENE TOTAL (UG/L) (34371)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	<3.0	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0	<3.0	<3.0
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	NAPHTH-ALENE TOTAL (UG/L) (34696)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	SAM-PLING DEPTH (M) (00098)
OCT										
28...	--	--	--	--	--	--	--	--	--	.33
28...	--	--	--	--	--	--	--	--	--	7.0
28...	--	--	--	--	--	--	--	--	--	14.0
APR										
19...	--	--	--	--	--	--	--	--	--	.30
19...	--	--	--	--	--	--	--	--	--	14.0
19...	--	--	--	--	--	--	--	--	--	7.0
JUL										
18...	<3.0	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<1.0	.33
18...	--	--	--	--	--	--	--	--	--	7.0
18...	--	--	--	--	--	--	--	--	--	13.9
SEP										
27...	--	--	--	--	--	--	--	--	--	1.0
27...	--	--	--	--	--	--	--	--	--	3.8
27...	--	--	--	--	--	--	--	--	--	7.0



USGS hydrographer making a wading discharge measurement.

02096960 HAW RIVER NEAR BYNUM, NC

LOCATION.--Lat 35°45'48", long 79°08'02", Chatham County, Hydrologic Unit 03030002, on right bank 500 ft upstream from Pokeberry Creek, 0.9 mi south of Bynum, and 1.1 mi downstream of U.S. Highways 15 and 501.

DRAINAGE AREA.--1,275 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 283.31 ft above sea level. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation for short periods at low flow caused by power plant above station. Maximum discharge for period of record, from rating curve extended above 36,000 ft^3/s, on basis of slope-conveyance measurement of peak flow; maximum gage height, 21.76 ft, from floodmarks. Minimum discharge for period of record also occurred Sept. 27, 1983. Minimum discharge for current water year also occurred Aug. 23. Minimum discharge for each year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5000	360	693	448	4670	760	759	1960	355	988	334	610
2	2880	381	565	445	3490	730	631	1470	255	436	652	1560
3	1650	822	429	450	2470	698	696	1120	283	251	734	3290
4	1150	724	493	479	2610	652	1640	942	427	270	491	3240
5	864	458	457	720	2660	596	1550	758	382	250	775	2500
6	612	347	456	927	2240	580	1030	715	384	246	668	1580
7	508	402	502	701	1880	613	804	608	326	266	426	886
8	428	366	563	584	1780	605	738	579	339	298	284	572
9	372	365	462	526	1690	582	2460	528	277	273	312	428
10	377	365	428	2590	1540	545	1810	463	248	200	403	392
11	433	364	487	5060	1380	537	1220	457	228	156	992	329
12	650	356	625	2260	1850	578	932	404	217	181	618	304
13	603	353	519	1480	5080	582	834	340	211	190	421	258
14	850	357	1550	1100	4280	558	1570	309	208	719	292	256
15	847	345	2480	976	4300	517	1770	295	189	715	245	344
16	467	350	1320	719	2590	508	4460	292	398	253	233	3560
17	469	342	935	675	1930	5790	3740	286	866	172	208	2800
18	886	322	780	661	1930	4040	3710	288	531	217	182	1440
19	816	319	656	684	2940	1820	3240	352	207	195	379	1030
20	618	314	648	813	2120	1470	2020	301	2590	184	404	1790
21	2400	319	697	1430	1600	3990	1420	290	2070	191	330	1070
22	1720	371	1200	1180	1230	2920	1160	1240	531	188	179	944
23	996	399	1160	909	1070	1890	952	958	408	179	115	1820
24	652	374	819	1130	983	1550	805	650	273	9710	169	2390
25	524	380	708	1270	907	1260	828	375	253	2720	174	1190
26	480	1020	671	1360	871	1080	1150	497	227	1350	159	5150
27	423	3260	612	1220	836	993	1430	555	421	947	263	2740
28	408	1690	588	1100	915	1130	1920	393	500	615	2140	1230
29	404	1020	545	1060	981	1170	5410	317	1860	404	3290	840
30	386	835	538	1350	---	890	3310	446	2380	450	980	595
31	370	---	504	6720	---	804	---	401	---	353	579	---
TOTAL	29243	17680	23090	41027	62823	40438	53999	18589	17844	23567	17431	45138
MEAN	943	589	745	1323	2166	1304	1800	600	595	760	562	1505
MAX	5000	3260	2480	6720	5080	5790	5410	1960	2590	9710	3290	5150
MIN	370	314	428	445	836	508	631	286	189	156	115	256
CFSM	.74	.46	.58	1.04	1.70	1.02	1.41	.47	.47	.60	.44	1.18
IN.	.85	.52	.67	1.20	1.83	1.18	1.58	.54	.52	.69	.51	1.32

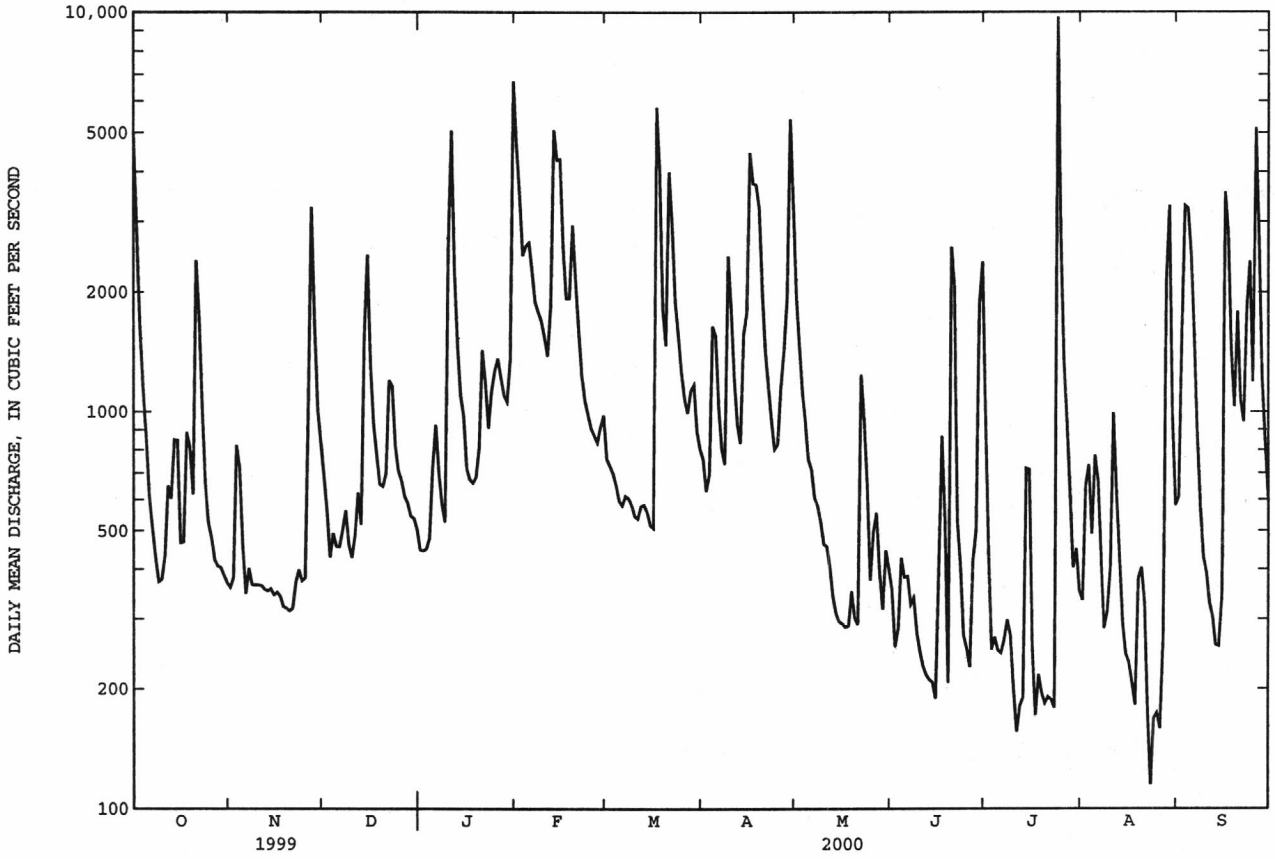
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

MEAN	671	731	1128	2289	2221	2573	1711	1147	882	793	572	913
MAX	2906	2888	2681	5895	5465	6110	4044	3936	4632	4477	1893	4904
(WY)	1991	1986	1984	1978	1979	1975	1987	1978	1982	1975	1985	1996
MIN	131	147	275	262	627	648	412	256	155	135	118	111
(WY)	1999	1999	1981	1981	1977	1988	1995	1986	1986	1986	1987	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL TOTAL	353332		390869			
ANNUAL MEAN	968		1068		1298	
HIGHEST ANNUAL MEAN					2181	1975
LOWEST ANNUAL MEAN					164	1973
HIGHEST DAILY MEAN	17500	Sep 16	9710	Jul 24	58000	Sep 6 1996
LOWEST DAILY MEAN	100	Aug 10	115	Aug 23	.18	Sep 10 1983
ANNUAL SEVEN-DAY MINIMUM	103	Aug 6	189	Jul 17	46	Sep 7 1983
INSTANTANEOUS PEAK FLOW			15800	Jul 24	76700*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			11.58	Jul 24	21.76*	Sep 6 1996
INSTANTANEOUS LOW FLOW			100*	May 25	.18*	Sep 10 1983
ANNUAL RUNOFF (CFSM)	.76		.84		1.02	
ANNUAL RUNOFF (INCHES)	10.31		11.40		13.83	
10 PERCENT EXCEEDS	1740		2490		2800	
50 PERCENT EXCEEDS	485		651		584	
90 PERCENT EXCEEDS	168		262		166	

See REMARKS.

02096960 HAW RIVER NEAR BYNUM, NC--Continued



0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC

LOCATION.--Lat 35°39'39", long 79°04'23", Chatham County, Hydrologic Unit 03030002, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks.

PERIOD OF RECORD.--Water years 1989 to current year. Prior to October 1993, published as Haw River at U.S. Highway 64 near Pittsboro (station 0209699980).

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
19...	1200	761	79	7.2	6.8	121	20.4	25	5.95	2.34	3.2
APR											
27...	1145	756	88	8.4	6.8	118	16.9	27	6.39	2.65	2.4
27...	1146	758	83	8.3	6.5	144	15.2	--	--	--	--
27...	1147	758	75	7.3	6.6	123	16.4	--	--	--	--
JUL											
06...	1230	760	146	11.2	9.0	205	29.0	31	7.54	3.05	3.8
06...	1235	760	23	1.9	6.4	189	25.4	--	--	--	--
06...	1236	760	3	.3	6.4	185	20.1	--	--	--	--
SEP											
22...	1230	754	116	9.7	8.3	170	23.9	32	7.90	3.05	3.8
22...	1245	754	66	5.6	7.0	152	22.5	--	--	--	--
22...	1300	754	70	6.2	6.8	125	21.1	--	--	--	--

DATE	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
OCT											
19...	1	11.6	47	9.9	.1	7.8	14.1	.70	.022	.96	.261
APR											
27...	.8	10.0	42	10.0	<.1	8.0	11.0	.53	.047	.88	.346
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	2	22.9	58	17.7	.2	8.6	18.6	1.1	.005	1.1	.005
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	1	18.3	52	14.0	.2	8.5	16.4	.92	.009	1.1	.219
22...	--	--	--	--	--	--	--	.61	.064	1.1	.495
22...	--	--	--	--	--	--	--	.60	.104	1.1	.500

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLOR (PLATINUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	TRANSPARENCY (SECCHI DISK) (M) (00078)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)
OCT											
19...	.012	.68	.014	.067	8.1	50	79	.85	5.6	E.2	100
APR											
27...	.007	.48	.008	.059	8.4	45	76	.60	E1.2	<.1	158
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	.001	1.1	.005	.065	8.9	24	132	.45	29.6	<.1	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	.008	.91	.005	.096	9.2	30	106	.40	37.5	1.5	--
22...	.026	.55	.044	.098	--	--	--	--	--	--	--
22...	.017	.49	.047	.128	--	--	--	--	--	--	--

0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT											
19...	<3	<.1	<1	<2	2	310	<1	55	<.3	1	<2
APR											
27...	<3	<.1	<1	<2	1	410	<1	47	<.3	<1	<2
27...	--	--	--	--	--	1820	--	314	--	--	--
27...	--	--	--	--	--	650	--	108	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	950	--	1990	--	--	--
06...	--	--	--	--	--	2260	--	1990	--	--	--
SEP											
22...	--	--	--	--	--	310	--	31	--	--	--
22...	--	--	--	--	--	610	--	57	--	--	--
22...	--	--	--	--	--	1010	--	125	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)
OCT											
19...	<3	<1	<31	--	--	--	--	--	--	--	--
APR											
27...	<3	<1	<31	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.0	<3.00
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

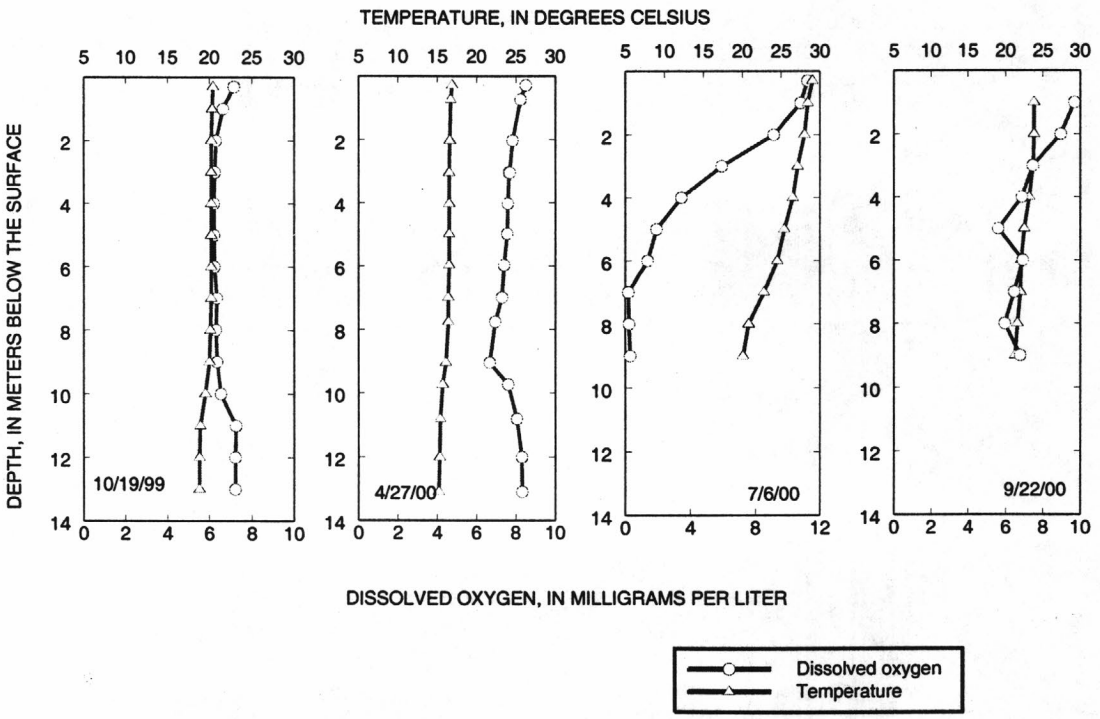
DATE	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)
OCT										
19...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.0
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

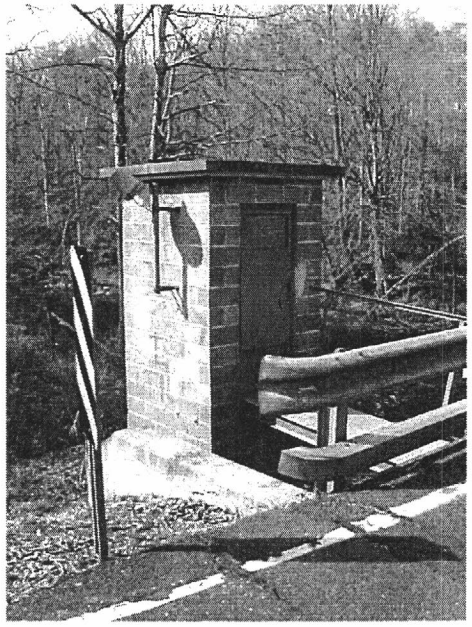
0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHYL-BENZENE TOTAL (UG/L) (34371)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)
OCT										
19...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0	<3.0	<3.0
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	NAPHTH-ALENE TOTAL (UG/L) (34696)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	SAM-PLING DEPTH (M) (00098)
OCT										
19...	--	--	--	--	--	--	--	--	--	.30
APR										
27...	--	--	--	--	--	--	--	--	--	.30
27...	--	--	--	--	--	--	--	--	--	13.0
27...	--	--	--	--	--	--	--	--	--	7.5
JUL										
06...	<3.0	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<1.0	.30
06...	--	--	--	--	--	--	--	--	--	4.5
06...	--	--	--	--	--	--	--	--	--	9.0
SEP										
22...	--	--	--	--	--	--	--	--	--	.33
22...	--	--	--	--	--	--	--	--	--	5.0
22...	--	--	--	--	--	--	--	--	--	10.0





USGS gaging station at Little River near Star.

02097314 NEW HOPE CREEK NEAR BLANDS, NC

LOCATION.--Lat 35°53'05", long 78°57'58", Durham County, Hydrologic Unit 03030002, on right bank 15 ft downstream of bridge on Secondary Road 1107, 0.5 mi southwest of Blands, and 2 mi downstream of Third Fork Creek.

DRAINAGE AREA.--75.9 mi^2.

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 230 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Considerable diurnal fluctuation at low flow. An average of 55.6 ft^3/s was diverted from the Neuse River Basin for Durham municipal water suppply; 21.5 ft^3/s was returned to the Cape Fear River Basin, and about 14.3 ft^3/s was returned to the Neuse River Basin. Maximum discharge for period of record 12,700 ft^3/s, from rating curve extended above 3,500 ft^3/s, by logarithmic plotting. Maximum gage height for period of record occurred as a result of backwater from B. Everett Jordan Lake; maximum gage height unaffected by backwater, 14.05 ft, Sept. 6, 1996. Minimum discharge for period of record not determined due to regulation. Minimum discharge unregulated, 4.2 ft^3/s, Apr. 28, 29, May 1, 2, and July 10, 1985. Minimum discharge for current water year due to regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e700	32	132	27	568	114	43	229	21	22	e90	69
2	e200	10	94	24	440	91	41	80	20	18	e500	49
3	e100	20	72	23	360	79	46	59	19	17	e170	31
4	e60	47	58	24	292	70	69	49	22	15	70	59
5	e40	62	50	41	255	61	63	45	20	14	397	110
6	e35	62	46	50	227	53	54	41	21	17	535	42
7	e30	56	45	47	199	47	55	35	21	18	137	30
8	e25	52	44	41	175	41	48	33	19	17	46	25
9	e22	49	42	38	209	37	191	32	17	16	34	21
10	e20	47	41	84	150	32	220	31	16	14	45	20
11	33	46	42	244	106	29	95	29	15	13	46	20
12	e28	45	45	290	110	27	64	27	15	13	29	19
13	e23	44	45	187	240	26	63	26	15	14	23	18
14	e25	44	75	129	320	23	122	23	15	19	31	18
15	e24	42	147	92	354	21	155	22	17	27	25	49
16	e22	40	199	69	317	22	266	21	18	26	22	31
17	46	39	172	52	230	50	256	21	18	17	21	22
18	182	40	126	43	220	57	301	21	18	16	19	19
19	254	41	94	39	285	39	586	21	18	13	18	25
20	137	42	74	40	266	40	534	20	57	14	17	29
21	151	42	62	108	220	180	255	20	149	20	17	21
22	190	45	58	152	194	296	94	109	80	16	17	19
23	139	45	57	128	174	221	64	127	30	16	17	38
24	89	45	54	116	156	86	54	39	22	e1320	16	85
25	64	44	48	128	141	57	54	29	19	e700	16	58
26	53	60	43	131	126	50	62	26	18	e200	18	219
27	48	155	38	133	117	48	118	23	17	e100	22	172
28	44	312	35	124	209	124	117	20	62	e70	32	54
29	42	296	33	105	221	90	304	63	63	e60	30	37
30	40	205	30	108	---	53	400	36	34	e50	85	29
31	39	---	28	232	---	47	---	24	---	e45	80	---
TOTAL	2905	2109	2129	3049	6881	2211	4794	1381	896	2937	2625	1438
MEAN	93.7	70.3	68.7	98.4	237	71.3	160	44.5	29.9	94.7	84.7	47.9
MAX	700	312	199	290	568	296	586	229	149	1320	535	219
MIN	20	10	28	23	106	21	41	20	15	13	16	18
CFSM	1.23	.93	.90	1.30	3.13	.94	2.11	.59	.39	1.25	1.12	.63
IN.	1.42	1.03	1.04	1.49	3.37	1.08	2.35	.68	.44	1.44	1.29	.70

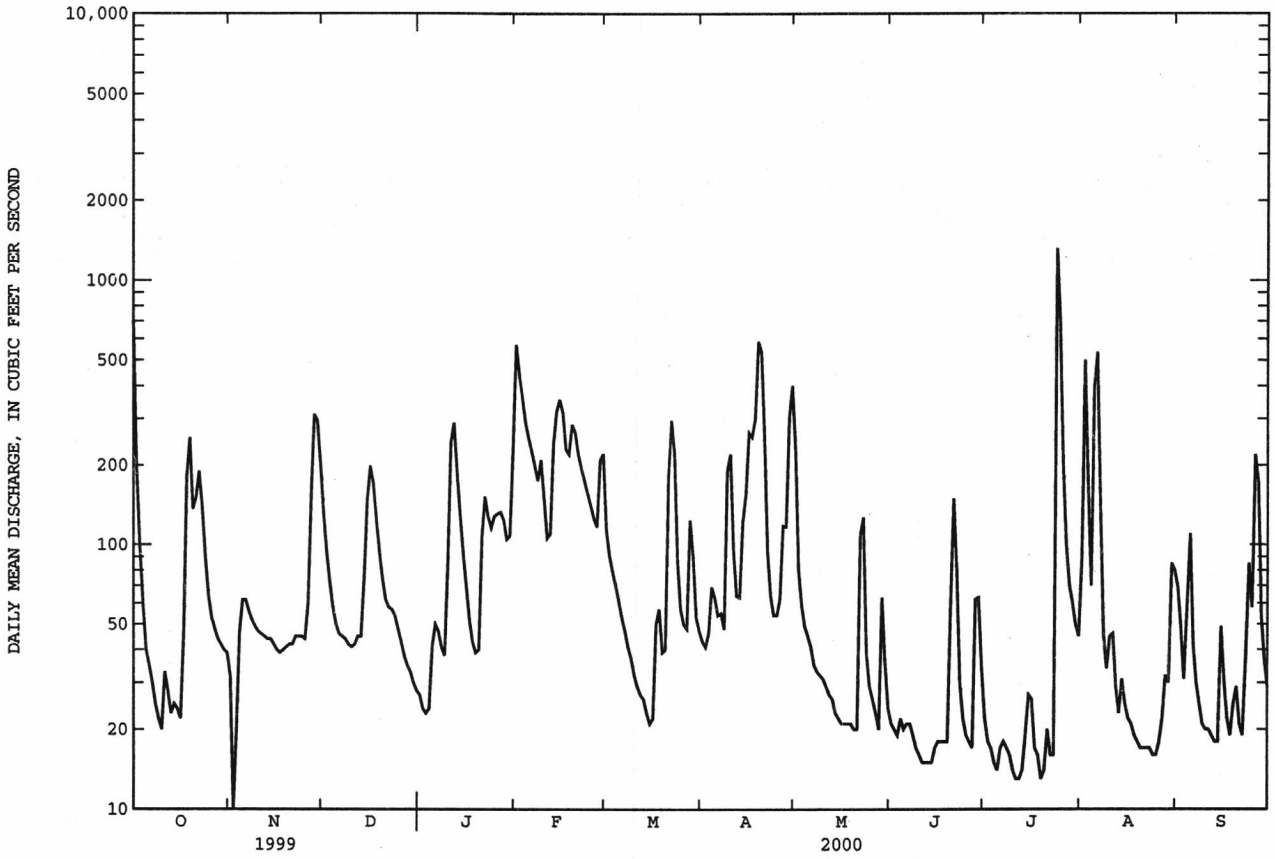
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

MEAN	47.9	77.0	81.5	169	211	208	144	95.3	44.7	46.6	42.0	70.7
MAX	122	371	264	509	463	493	618	411	154	156	97.8	507
(WY)	1990	1986	1984	1991	1998	1998	1987	1997	1995	1995	1986	1999
MIN	12.8	16.1	17.0	38.6	62.3	42.0	13.5	29.4	14.3	12.9	14.5	10.8
(WY)	1987	1985	1989	1986	1986	1985	1985	1994	1985	1993	1997	1984

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	40553.0		33355			
ANNUAL MEAN	111		91.1		103	
HIGHEST ANNUAL MEAN					156	1984
LOWEST ANNUAL MEAN					48.3	1988
HIGHEST DAILY MEAN	3670	Sep 6	1320	Jul 24	6300	Sep 6 1996
LOWEST DAILY MEAN	9.3	Aug 4	10	Nov 2	.39	Dec 30 1988
ANNUAL SEVEN-DAY MINIMUM	9.7	Aug 1	15	Jul 7	4.8	Nov 29 1990
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		12700*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			NOT DETERMINED		18.74*	Sep 12 1996
INSTANTANEOUS LOW FLOW			7.5*	Nov 2	NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	1.46		1.20		1.35	
ANNUAL RUNOFF (INCHES)	19.88		16.35		18.36	
10 PERCENT EXCEEDS	201		221		221	
50 PERCENT EXCEEDS	40		46		35	
90 PERCENT EXCEEDS	11		18		13	

e Estimated.
* See REMARKS.

02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued



0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°55'02", long 79°01'57", Orange County, Hydrologic Unit 03030002, 0.8 mi upstream from mouth, and 1.2 mi east of Chapel Hill.

DRAINAGE AREA.--0.42 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year. Prior to October 1994, published as "Little Creek Tributary near Chapel Hill, NC".

GAGE.--Water-stage recorder. Datum of gage is 376 ft above sea level, from topographic map. Water stage recorder was at present site, at datum of 377 ft, Feb. 1987 to Sept. 1996. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record also occurred July 28, 30, 31, Aug. 1-13, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	.10	.13	.14	2.2	e.62	e.53	e.60	.21	.13	1.8	.33
2	1.6	3.4	.11	.15	1.8	e.57	e.48	e.44	.18	.11	1.5	.09
3	1.2	.26	.11	.13	1.8	e.50	e.78	e.34	.20	.09	.23	1.0
4	1.1	.15	.10	.47	2.0	e.47	.29	.21	.40	.09	.22	1.6
5	.87	.15	.11	.16	1.7	e.49	.21	.21	.41	.71	1.1	.36
6	.65	.15	.20	.11	e1.4	e.43	.21	.17	.32	.52	.15	.15
7	.55	.17	.10	.11	e1.4	e.37	.21	e.16	.19	.09	.12	.13
8	.49	.20	.09	.11	e1.3	e.33	2.5	e.15	.18	.08	.09	.13
9	.42	.29	.10	.99	e.91	e.30	e1.4	e.14	.17	.11	.10	.12
10	1.1	.41	.38	5.1	e.80	e.27	e1.0	e.14	.16	.09	.63	.11
11	.98	.22	.11	2.0	e.70	.29	e.70	e.13	.20	.10	.11	.12
12	.31	.21	.08	e1.3	e2.9	.31	.18	e.13	.14	.10	.11	.11
13	.54	.21	.08	e.87	e2.6	.21	.86	e.14	.14	.69	.20	.11
14	.20	.22	4.0	.61	3.5	.21	.42	e.12	.25	.11	.23	.71
15	.13	.27	.85	.57	1.3	.22	1.9	e.11	.28	1.4	.19	.10
16	.11	.27	.45	.56	.88	.90	.99	e.14	.42	.09	.25	e.09
17	2.0	.24	.30	.44	.61	.37	2.5	e.11	.10	.07	.22	e.09
18	.68	.26	.28	.76	1.9	.21	e5.2	e.11	.10	.06	.37	.32
19	.16	.35	.31	.84	1.1	.21	e1.4	e.10	.28	.06	.16	.81
20	1.1	.29	.39	1.7	.65	2.6	e1.2	e.13	.66	.07	.19	.09
21	.92	.28	.55	.53	.60	1.7	e.93	e.43	.14	.12	.23	.07
22	.23	.53	.33	.30	.43	.77	e.83	e6.4	.12	.36	.24	.31
23	.16	.09	.22	1.1	.41	.45	e.90	e.60	.13	2.1	.24	1.7
24	.13	.09	.20	1.1	.41	.36	e.73	e.40	.11	11	.27	.11
25	.11	.17	.17	1.8	.41	.30	e.70	e.31	.12	2.5	.21	1.5
26	.11	3.5	.18	1.4	.39	.35	e.60	e.30	.09	1.1	.18	.76
27	.10	1.1	.17	1.1	e.80	1.3	.76	.35	.38	.30	1.0	.13
28	.08	.33	.17	.86	e.98	e1.5	3.8	.61	1.2	.16	.47	.08
29	.08	.21	.16	.63	e.80	e1.0	1.7	.59	.50	.12	.69	.06
30	.08	.17	.16	7.4	---	e.87	.65	.25	.17	.14	.82	.07
31	.08	---	.15	e8.2	---	e.74	---	.22	---	.58	.18	---
TOTAL	18.77	14.29	10.74	41.54	36.68	19.22	34.56	14.24	7.95	23.25	12.50	11.36
MEAN	.61	.48	.35	1.34	1.26	.62	1.15	.46	.27	.75	.40	.38
MAX	2.5	3.5	4.0	8.2	3.5	2.6	5.2	6.4	1.2	11	1.8	1.7
MIN	.08	.09	.08	.11	.39	.21	.18	.10	.09	.06	.09	.06
CFSM	1.44	1.13	.82	3.19	3.01	1.48	2.74	1.09	.63	1.79	.96	.90
IN.	1.66	1.27	.95	3.68	3.25	1.70	3.06	1.26	.70	2.06	1.11	1.01

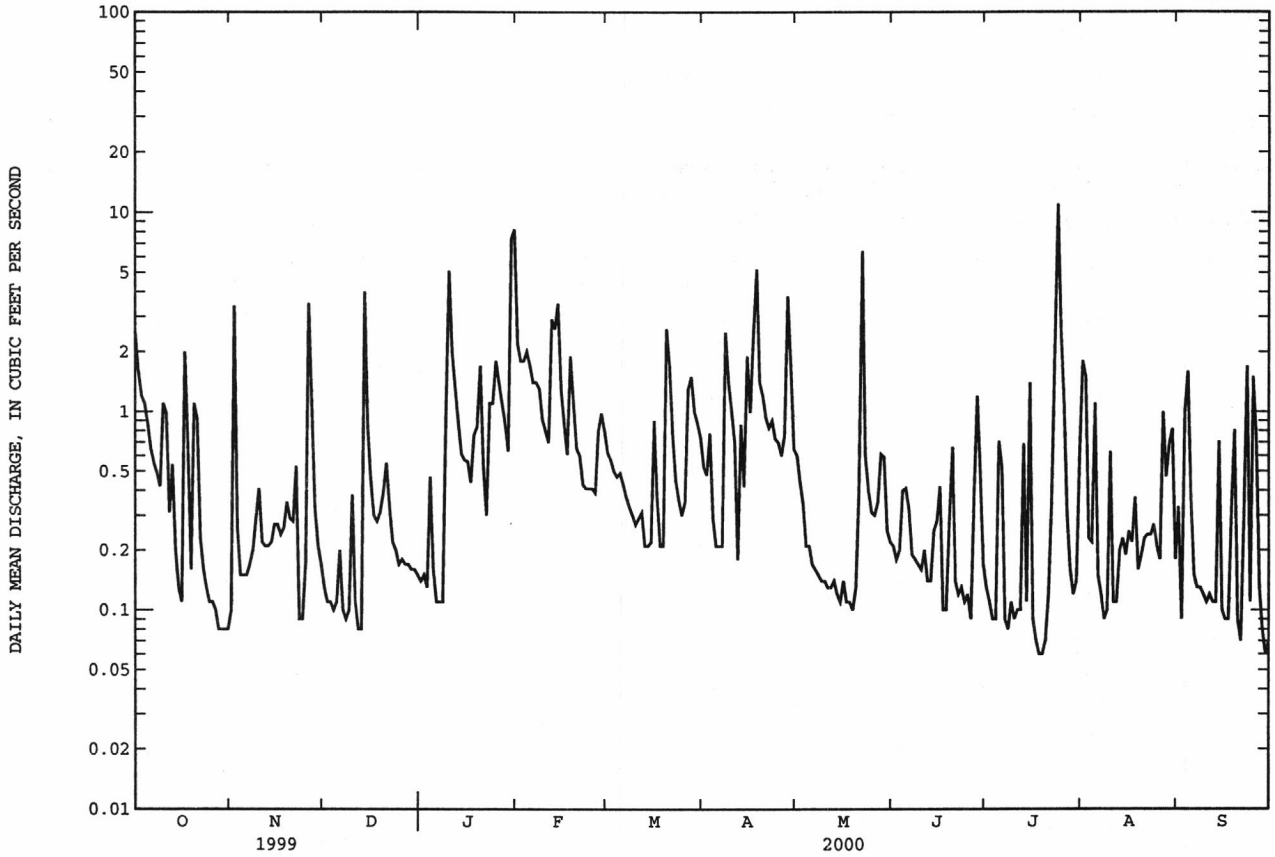
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000@, BY WATER YEAR (WY)

MEAN	.51	.43	.35	1.25	1.02	1.01	.63	.26	.33	.40	.36	2.87
MAX	.69	.52	.52	1.76	1.92	2.34	1.15	.46	.84	.75	.68	9.74
(WY)	1997	1997	1999	1999	1998	1998	2000	2000	1997	2000	1999	1999
MIN	.20	.25	.27	.26	.42	.34	.37	.11	.083	.098	.13	.36
(WY)	1999	1999	1997	1997	1997	1997	1998	1999	1999	1998	1997	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000@	
ANNUAL TOTAL	474.89		245.10			
ANNUAL MEAN	1.30		.67		.78	
HIGHEST ANNUAL MEAN					1.26	1999
LOWEST ANNUAL MEAN					.48	1997
HIGHEST DAILY MEAN	70	Sep 5	11	Jul 24	70	Sep 5 1999
LOWEST DAILY MEAN	.00	Jul 27	.06	Jul 18	.00	Jul 27 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 30	.09	Oct 26	.00	Jul 30 1999
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			4.40	Jul 24	5.42	Sep 6 1999
INSTANTANEOUS LOW FLOW			.04	Jul 18	.00*	Jul 27 1999
ANNUAL RUNOFF (CFSM)	3.10		1.59		1.86	
ANNUAL RUNOFF (INCHES)	42.06		21.71		25.26	
10 PERCENT EXCEEDS	1.7		1.5		1.2	
50 PERCENT EXCEEDS	.17		.30		.18	
90 PERCENT EXCEEDS	.03		.10		.05	

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

0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC--Continued



0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC--Continued

PRECIPITATION RECORDS

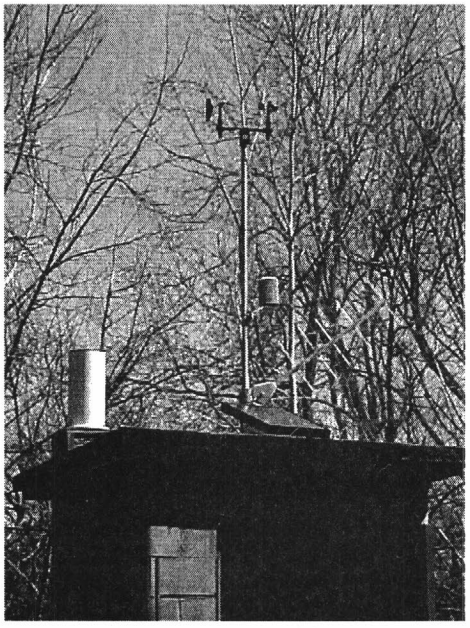
PERIOD OF RECORD.--October 1990 to September 1995 (flood-hydrograph rainfall-runoff only). February 1987 to current year. February 1987 to September 1994 published as "Little Creek Tributary near Chapel Hill, NC". Rainfall records from February 1987 to January 2000 are unpublished and available in the USGS District Office, Raleigh, NC.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JANUARY 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	.36	.00	.00	.00	---	---	---	.16
2	---	---	---	---	.21	.00	3.62	.00	---	---	---	.06
3	---	---	---	---	.23	.00	.18	.00	---	---	---	.54
4	---	---	---	---	.00	.00	.02	.00	---	---	---	.59
5	---	---	---	---	.00	.00	.00	.00	---	---	---	.02
6	---	---	---	---	.00	.00	.00	.00	---	---	---	.00
7	---	---	---	---	.00	.00	.00	.00	---	---	---	.00
8	---	---	---	.00	.00	.00	.85	.00	---	---	---	.00
9	---	---	---	.49	.00	.00	.00	.00	---	---	---	.00
10	---	---	---	.81	.00	.00	.00	.00	---	---	---	.00
11	---	---	---	.00	.00	.06	.00	.00	---	---	.00	.00
12	---	---	---	.00	.66	.01	.00	.00	---	---	.00	.00
13	---	---	---	.00	.01	.00	.44	.00	---	---	.21	.00
14	---	---	---	.00	.35	.00	.17	.00	---	---	.00	.49
15	---	---	---	.00	.00	.00	.44	.00	---	---	.00	.00
16	---	---	---	.00	.00	.42	.01	.00	---	---	.00	.00
17	---	---	---	.00	.00	.02	.63	.01	---	---	.00	.00
18	---	---	---	.00	.44	.00	.36	.00	---	---	.07	.39
19	---	---	---	.24	.01	.00	.00	.00	---	---	.00	.17
20	---	---	---	.37	.00	1.07	.00	.00	---	---	.00	.00
21	---	---	---	.01	.00	.02	.00	.31	---	---	.00	.00
22	---	---	---	.00	.00	.00	.00	1.44	---	---	.00	.28
23	---	---	---	.25	.00	.00	.00	.00	---	---	.00	.54
24	---	---	---	.13	.00	.00	.01	.00	---	---	.00	.02
25	---	---	---	.00	.00	.04	.20	.02	---	---	.00	.81
26	---	---	---	.03	.00	.00	.01	---	---	---	.00	.05
27	---	---	---	.00	.47	.58	.29	---	---	---	.73	.00
28	---	---	---	.07	.00	.00	1.01	---	---	---	.21	.00
29	---	---	---	.04	.00	.00	.01	---	---	---	.72	.00
30	---	---	---	.06	---	.01	.00	---	---	---	.37	.00
31	---	---	---	.24	---	.00	---	---	---	---	.06	---
TOTAL	---	---	---	---	2.74	2.23	8.25	---	---	---	---	4.12



USGS gaging station with tipping bucket raingage, anemometer for wind speed and direction, and thermometer for air temperature at Hunting Creek near Harmony.

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC

LOCATION.--Lat 35°52'20", long 78°54'49", Durham County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream of Burdens Creek.

DRAINAGE AREA.--21.1 mi^2.

PERIOD OF RECORD.--October 1982 to January 1994, August 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 229.01 ft above sea level, by levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those discharges below 10 ft^3/s, which are poor. An average of 50.0 ft^3/s was diverted from the Neuse River basin for municipal water supply; 21.6 ft^3/s was returned to the Cape Fear River basin, of which 5.8 ft^3/s entered upstream from station as treated effluent. About 14.4 ft^3/s was returned to the Neuse River basin as treated effluent. Maximum discharge for period of record and current water year from rating curve extended above 2,000 ft^3/s, by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	11	3.7	28	224	16	8.6	18	9.2	6.7	21	16
2	21	15	3.2	27	101	13	9.3	15	9.0	5.8	107	11
3	12	18	3.1	28	67	12	11	14	7.9	5.7	28	11
4	10	12	3.2	31	99	11	13	14	9.4	6.4	20	21
5	9.3	11	4.1	57	101	10	12	14	9.6	8.1	198	26
6	8.8	10	6.1	32	57	10	12	14	9.6	10	71	12
7	8.1	10	6.9	29	44	9.6	12	15	8.6	12	13	9.2
8	7.6	11	6.4	28	39	9.5	18	15	8.3	11	10	e8.5
9	6.8	11	6.1	32	35	9.4	51	16	8.0	12	9.5	e8.0
10	7.2	11	6.3	207	32	9.3	13	16	7.1	14	14	e8.0
11	16	10	7.3	278	31	8.4	12	16	7.4	15	11	e8.0
12	11	10	5.7	48	68	8.5	9.9	16	8.4	15	8.8	e7.5
13	8.9	8.9	5.9	32	181	8.7	11	16	8.4	16	7.7	e8.0
14	9.2	8.5	146	28	110	8.8	16	16	8.4	15	8.1	9.3
15	8.9	8.7	183	25	100	8.6	36	16	8.6	20	9.3	12
16	7.5	8.8	41	24	37	8.8	31	17	8.5	16	11	7.8
17	25	9.5	33	25	31	12	14	17	7.5	13	9.7	7.8
18	204	10	29	25	86	8.9	154	17	6.8	13	9.6	8.9
19	47	10	29	28	79	8.1	70	16	8.1	13	8.7	11
20	19	10	31	43	38	14	22	16	8.8	13	8.2	10
21	46	10	30	57	30	57	19	16	8.5	13	8.8	9.6
22	23	10	33	32	27	16	16	30	8.9	13	9.3	9.4
23	14	10	30	36	25	12	15	17	8.3	12	9.3	17
24	11	10	28	53	25	10	15	12	7.4	80	9.8	17
25	10	9.6	27	65	24	9.5	17	10	6.8	36	9.8	14
26	10	37	26	e53	23	9.0	19	9.6	7.7	18	9.0	74
27	10	146	26	e39	27	9.9	37	8.3	8.5	12	28	11
28	10	13	27	e33	215	27	34	8.0	9.9	12	17	6.9
29	10	5.2	27	e20	50	13	58	11	15	11	11	6.1
30	9.3	4.1	27	108	---	11	31	12	9.7	21	29	6.0
31	9.7	---	28	579	---	9.9	---	10	---	14	26	---
TOTAL	771.3	469.3	869.0	2130	2006	388.9	796.8	457.9	258.3	482.7	750.6	392.0
MEAN	24.9	15.6	28.0	68.7	69.2	12.5	26.6	14.8	8.61	15.6	24.2	13.1
MAX	204	146	183	579	224	57	154	30	15	80	198	74
MIN	6.8	4.1	3.1	20	23	8.1	8.6	8.0	6.8	5.7	7.7	6.0
CFSM	1.18	.74	1.33	3.26	3.28	.59	1.26	.70	.41	.74	1.15	.62
IN.	1.36	.83	1.53	3.76	3.54	.69	1.40	.81	.46	.85	1.32	.69

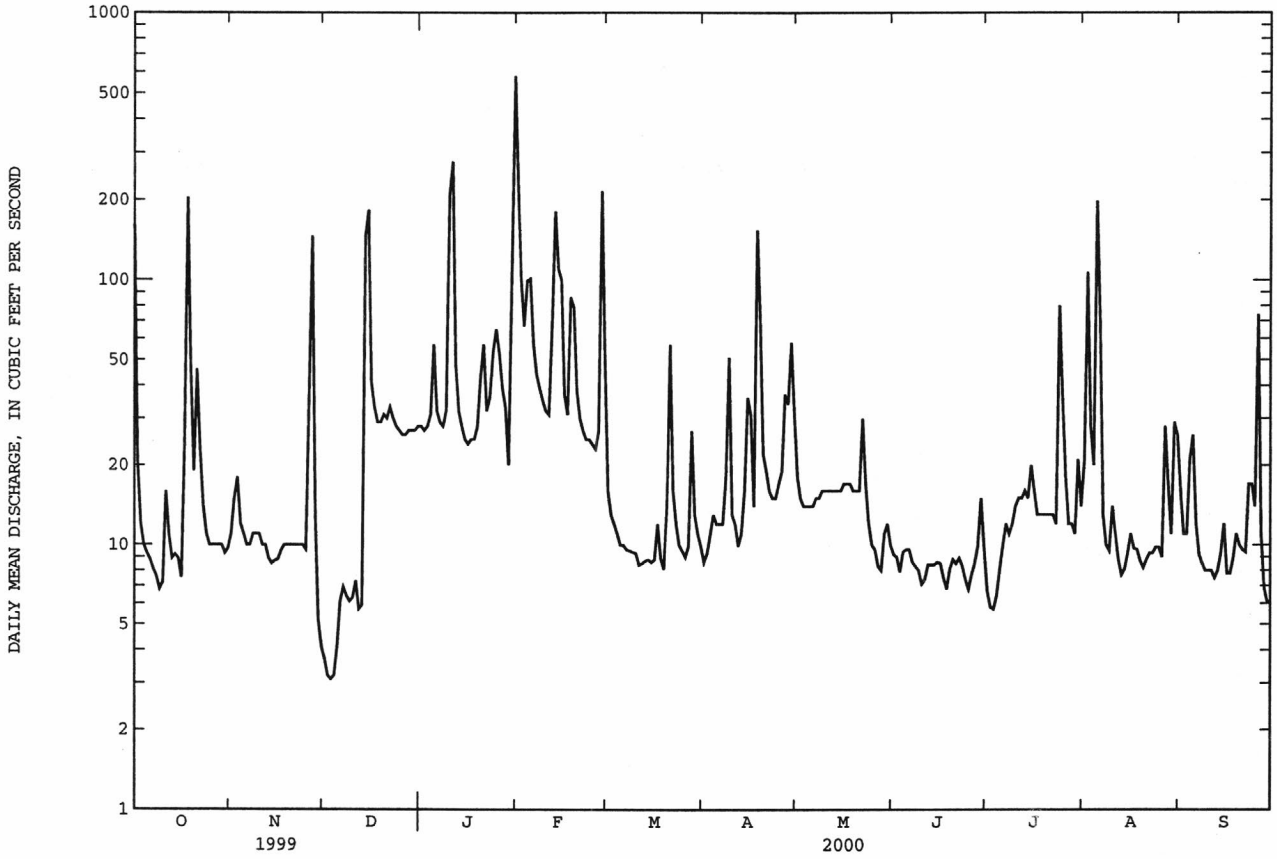
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

MEAN	19.6	26.6	31.4	59.5	59.8	60.8	35.7	20.0	12.2	15.2	16.7	35.7
MAX	60.2	82.7	86.3	134	111	128	84.5	59.1	44.4	48.6	66.7	247
(WY)	1996	1993	1984	1998	1998	1998	1993	1990	1992	1989	1986	1999
MIN	3.27	3.89	4.32	12.6	10.8	8.18	4.00	6.98	4.55	3.33	3.50	2.49
(WY)	1986	1985	1989	1986	1991	1985	1985	1999	1987	1983	1983	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	15564.0		9772.8			
ANNUAL MEAN	42.6		26.7		33.1	
HIGHEST ANNUAL MEAN					49.1	1996
LOWEST ANNUAL MEAN					14.7	1988
HIGHEST DAILY MEAN	1940	Sep 16	579	Jan 31	3350	Sep 6 1996
LOWEST DAILY MEAN	2.4	Aug 22	3.1	Dec 3	.74	Jul 16 1991
ANNUAL SEVEN-DAY MINIMUM	2.9	Aug 29	3.8	Nov 29	1.5	Oct 7 1985
INSTANTANEOUS PEAK FLOW			786	Jan 31	5140	Sep 6 1996
INSTANTANEOUS PEAK STAGE			10.07	Jan 31	13.92	Sep 6 1996
INSTANTANEOUS LOW FLOW			2.5	Dec 3	.76	Oct 7 1985
ANNUAL RUNOFF (CFSM)	2.02		1.27		1.57	
ANNUAL RUNOFF (INCHES)	27.44		17.23		21.33	
10 PERCENT EXCEEDS	56		52		62	
50 PERCENT EXCEEDS	8.9		12		8.9	
90 PERCENT EXCEEDS	3.4		7.8		3.9	

e Estimated.

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC--Continued



02097464 MORGAN CREEK NEAR WHITE CROSS, NC

LOCATION.--Lat 35°55'25", long 79°06'56", Orange County, Hydrologic Unit 03020002, at downstream side of culvert on State Highway 54, 2 mi upstream from University Lake, and 3.5 mi east of White Cross.

DRAINAGE AREA.--8.35 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 420 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair. Maximum discharge for period of record from rating curve extended above 2,700 ft^3/s, by logarithmic plotting. Minimum discharge for period of record also occurred Aug. 13, 14, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	3.6	3.9	3.2	27	6.2	4.1	7.0	1.6	.83	4.8	3.1
2	16	8.9	3.5	3.3	22	5.8	4.2	5.9	1.5	.84	25	2.7
3	9.8	5.6	3.4	3.3	19	5.2	5.7	4.7	1.4	.68	8.1	4.3
4	7.3	4.7	3.3	6.8	22	5.1	5.9	4.0	2.2	.65	4.3	3.8
5	5.7	4.7	3.3	11	21	5.5	4.9	3.6	2.1	1.1	14	3.6
6	4.1	4.7	3.4	6.0	17	4.8	4.7	3.3	2.1	1.3	4.7	2.6
7	3.1	4.9	3.3	5.6	14	4.3	4.2	2.9	1.6	.82	2.8	2.2
8	3.0	4.8	3.0	5.7	13	4.2	11	2.7	1.3	.70	2.1	2.3
9	2.8	5.0	3.1	6.2	11	4.1	21	2.5	1.3	.65	1.7	2.1
10	5.0	5.0	3.7	32	9.9	4.0	8.5	2.3	1.2	.63	6.5	2.0
11	11	5.2	3.8	20	8.8	4.5	6.1	2.1	1.1	.58	2.5	2.0
12	8.6	5.2	3.3	10	27	4.2	5.1	2.1	1.1	.54	1.7	1.9
13	6.0	5.1	3.4	7.4	25	3.7	5.9	2.2	1.1	.85	1.6	2.1
14	6.0	5.2	17	5.8	32	3.6	9.8	1.9	1.1	.91	1.6	4.2
15	3.8	5.1	9.2	5.0	21	3.6	21	1.7	1.9	1.4	1.3	3.8
16	3.4	4.7	5.9	5.2	14	5.6	22	2.2	4.0	.74	1.4	1.8
17	11	4.4	4.6	4.6	10	10	12	1.6	1.6	.60	1.5	1.6
18	15	4.3	4.1	5.5	19	5.2	45	1.6	1.4	.49	1.5	1.8
19	7.7	4.3	3.9	5.2	18	4.5	20	1.5	4.4	.48	1.9	2.7
20	15	4.4	4.2	8.8	12	20	13	1.4	53	.48	1.7	2.1
21	20	4.4	4.3	9.2	9.2	34	8.5	1.7	5.1	.51	1.8	2.0
22	9.0	6.4	5.1	6.6	9.3	15	6.4	18	2.5	.56	1.7	2.4
23	6.2	4.8	4.3	6.0	9.0	9.4	5.4	3.3	1.7	43	1.8	8.8
24	4.9	4.4	3.9	8.5	6.7	8.1	4.8	2.5	1.3	269	2.0	3.7
25	4.3	4.3	3.6	15	6.3	6.6	5.1	2.1	1.2	22	2.2	8.1
26	4.1	32	3.7	12	6.6	6.8	4.7	2.0	1.1	14	2.1	14
27	3.8	23	3.7	8.8	9.1	7.2	7.7	1.7	.99	5.2	4.1	2.9
28	3.6	8.7	3.5	8.1	11	7.3	19	2.5	1.8	3.4	3.7	1.8
29	3.6	5.5	3.4	7.6	7.2	5.4	26	5.6	2.1	2.6	3.5	1.5
30	3.6	4.4	3.3	40	---	5.0	11	2.4	1.2	2.3	4.1	1.5
31	3.7	---	3.3	46	---	4.6	---	1.8	---	2.0	2.9	---
TOTAL	238.1	197.7	135.4	328.4	437.1	223.5	332.7	100.8	105.99	379.84	120.6	99.4
MEAN	7.68	6.59	4.37	10.6	15.1	7.21	11.1	3.25	3.53	12.3	3.89	3.31
MAX	27	32	17	46	32	34	45	18	53	269	25	14
MIN	2.8	3.6	3.0	3.2	6.3	3.6	4.1	1.4	.99	.48	1.3	1.5
CFSM	.92	.79	.52	1.27	1.81	.86	1.33	.39	.42	1.47	.47	.40
IN.	1.06	.88	.60	1.46	1.95	1.00	1.48	.45	.47	1.69	.54	.44

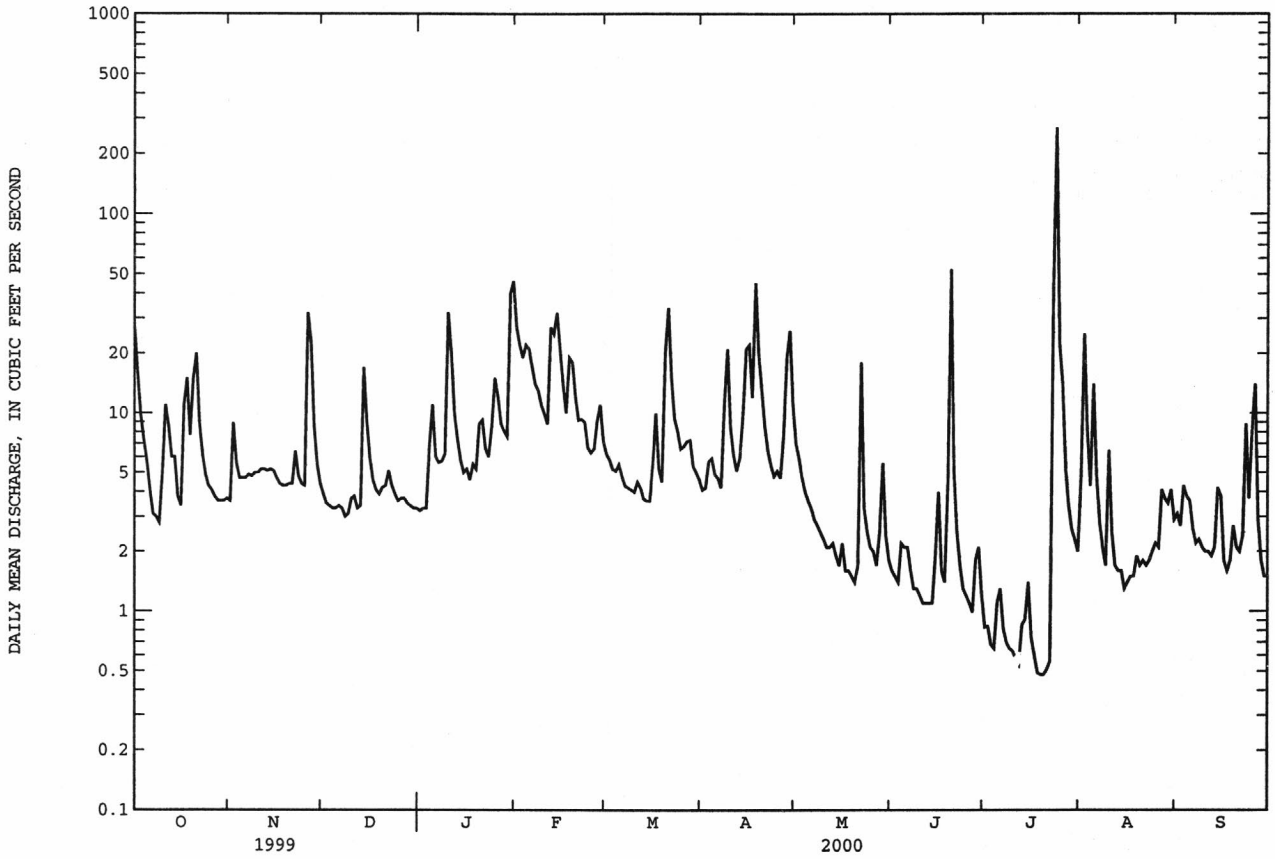
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	4.27	4.94	5.04	13.9	15.2	20.0	10.4	7.27	5.12	3.26	3.09	7.48
MAX	13.1	15.3	13.2	33.4	39.7	53.0	18.2	30.1	19.9	12.3	18.7	40.4
(WY)	1990	1996	1990	1998	1998	1998	1993	1989	1995	2000	1995	1999
MIN	.26	.13	.51	2.54	3.68	5.14	2.33	.93	.54	.41	.091	.075
(WY)	1999	1999	1999	1989	1999	1999	1995	1999	1999	1999	1999	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	2798.49		2699.53			
ANNUAL MEAN	7.67		7.38		8.12	
HIGHEST ANNUAL MEAN					12.5	1998
LOWEST ANNUAL MEAN					5.38	1992
HIGHEST DAILY MEAN	345	Sep 16	269	Jul 24	737	Sep 6 1996
LOWEST DAILY MEAN	.02	Aug 6	.48	Jul 19	.02	Sep 27 1990
ANNUAL SEVEN-DAY MINIMUM	.03	Aug 3	.55	Jul 16	.02	Sep 26 1990
INSTANTANEOUS PEAK FLOW			1030	Jul 24	3100	Aug 27 1995
INSTANTANEOUS PEAK STAGE			8.45	Jul 24	11.20	Aug 27 1995
INSTANTANEOUS LOW FLOW			.41	Jul 21	.01*	Aug 7 1999
ANNUAL RUNOFF (CFSM)	.92		.88		.97	
ANNUAL RUNOFF (INCHES)	12.47		12.03		13.22	
10 PERCENT EXCEEDS	10		16		16	
50 PERCENT EXCEEDS	2.4		4.3		3.2	
90 PERCENT EXCEEDS	.14		1.4		.35	

* See REMARKS.

02097464 MORGAN CREEK NEAR WHITE CROSS, NC--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT										
29...	1030	3.3	763	93	10.6	7.1	99	9.8	35	8.55
DEC										
09...	1400	3.1	761	105	12.8	7.5	91	6.9	31	7.49
MAR										
02...	1045	5.9	750	104	11.4	7.3	81	10.6	28	6.90
APR										
14...	0945	10	764	90	10.1	6.6	72	10.1	26	6.26
JUN										
21...	1245	4.7	753	89	7.7	6.8	94	21.8	28	6.66
SEP										
14...	1415	2.8	751	81	7.0	6.9	111	21.9	38	9.67

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT										
29...	3.26	2.0	.4	5.2	23	31	38	6.2	<.1	16.2
DEC										
09...	2.94	1.3	.4	4.7	24	31	37	6.7	<.1	15.1
MAR										
02...	2.59	1.1	.4	4.8	26	25	30	6.1	<.1	9.0
APR										
14...	2.54	1.5	.3	3.8	23	--	--	5.3	<.1	11.8
JUN										
21...	2.66	3.5	.4	4.5	23	13	16	5.8	<.1	10.4
SEP										
14...	3.32	2.0	.4	5.4	22	49	60	6.1	<.1	15.3

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
29...	4.5	.23	.004	--	<.005	<.001	.22	<.001	.068	3.7
DEC										
09...	4.0	.17	.006	.63	.468	.003	.16	.008	E.043	3.2
MAR										
02...	4.0	.24	<.002	.67	.424	.002	--	.014	E.049	4.1
APR										
14...	3.6	.48	.057	.81	.331	.006	.43	.022	.066	6.6
JUN										
21...	4.7	.66	.053	1.4	.777	.009	.60	.055	.138	10
SEP										
14...	2.6	.24	.010	.81	.571	.003	.23	.042	.078	4.5

02097464 MORGAN CREEK NEAR WHITE CROSS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT										
29...	30	73	59	<3	<.1	<1	<2	<1	420	<1
DEC										
09...	25	67	--	--	--	--	--	--	--	--
MAR										
02...	50	56	--	--	--	--	--	--	--	--
APR										
14...	80	64	160	<3	<.1	<1	<2	<1	1080	<1
JUN										
21...	110	78	--	--	--	--	--	--	--	--
SEP										
14...	25	76	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
29...	17	<.3	<1	<2	<3	<1	<31	4	.04
DEC									
09...	--	--	--	--	--	--	--	2	.02
MAR									
02...	--	--	--	--	--	--	--	4	.06
APR									
14...	45	<.3	<1	<2	<3	<1	<31	9	.25
JUN									
21...	--	--	--	--	--	--	--	23	.29
SEP									
14...	--	--	--	--	--	--	--	5	.04

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°53'48", long 79°05'33", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, and 1.8 mi southwest of Chapel Hill.

DRAINAGE AREA.--30 mi^2.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
28...	1315	763	117	11.7	7.6	72	15.4	24	6.01	2.21	2.1
28...	1316	763	62	6.3	6.8	75	14.6	--	--	--	--
28...	1317	763	98	10.0	7.1	72	14.7	--	--	--	--
APR											
18...	1030	749	102	9.5	7.2	89	17.9	25	6.14	2.29	1.3
18...	1031	749	12	1.2	6.0	90	15.0	--	--	--	--
18...	1032	749	83	7.9	6.5	88	16.9	--	--	--	--
JUL											
18...	1330	754	98	7.2	7.7	93	30.5	28	7.07	2.60	2.0
18...	1335	754	26	2.1	6.0	91	27.1	--	--	--	--
18...	1336	754	20	1.8	6.3	160	20.2	--	--	--	--
SEP											
27...	1230	755	58	5.1	6.6	91	21.2	29	7.54	2.53	2.4
27...	1231	755	49	4.3	6.5	92	21.1	--	--	--	--
27...	1232	755	2	.1	6.6	219	18.7	--	--	--	--

DATE	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT											
28...	.4	4.0	24	23	27	4.7	<.1	14.1	5.8	.77	.024
28...	--	--	--	-	--	--	--	--	--	.58	.008
28...	--	--	--	-	--	--	--	--	--	.46	.040
APR											
18...	.5	5.3	30	--	--	5.9	<.1	13.5	4.9	.52	.014
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	.5	6.0	30	30	37	5.6	<.1	15.2	3.7	.65	<.002
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	.4	4.9	25	27	33	4.6	<.1	13.9	3.6	.74	.011
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLOR (PLATINUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	TRANSPARENCY (SECCHI DISK) (M) (00078)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)
OCT											
28...	--	<.005	<.001	.74	<.001	.072	9.9	60	70	.75	21.8
28...	--	<.005	.001	.57	<.001	--	--	--	--	--	--
28...	.47	.013	.001	.42	<.001	--	--	--	--	--	--
APR											
18...	.54	.023	.002	.50	.001	--	5.8	35	65	.75	E5.4
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	<.005	<.001	--	.002	E.032	8.8	39	74	.95	8.5
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	<.005	<.001	.73	.001	.055	9.1	20	67	.60	9.8
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT											
28...	1.3	149	<3	<.1	<1	<2	E1	1110	<1	233	<.3
28...	--	--	--	--	--	--	--	750	--	94	--
28...	--	--	--	--	--	--	--	720	--	87	--
APR											
18...	.4	67	4	<.1	3	<2	E1	470	<1	79	<.3
18...	--	--	--	--	--	--	--	550	--	140	--
18...	--	--	--	--	--	--	--	5930	--	719	--
JUL											
18...	.5	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	250	--	188	--
18...	--	--	--	--	--	--	--	3370	--	4980	--
SEP											
27...	.3	--	--	--	--	--	--	400	--	458	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	19200	--	7400	--

DATE	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)
OCT											
28...	<1	<2	<3	<1	<31	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<1	<2	<3	<1	<31	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	--	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

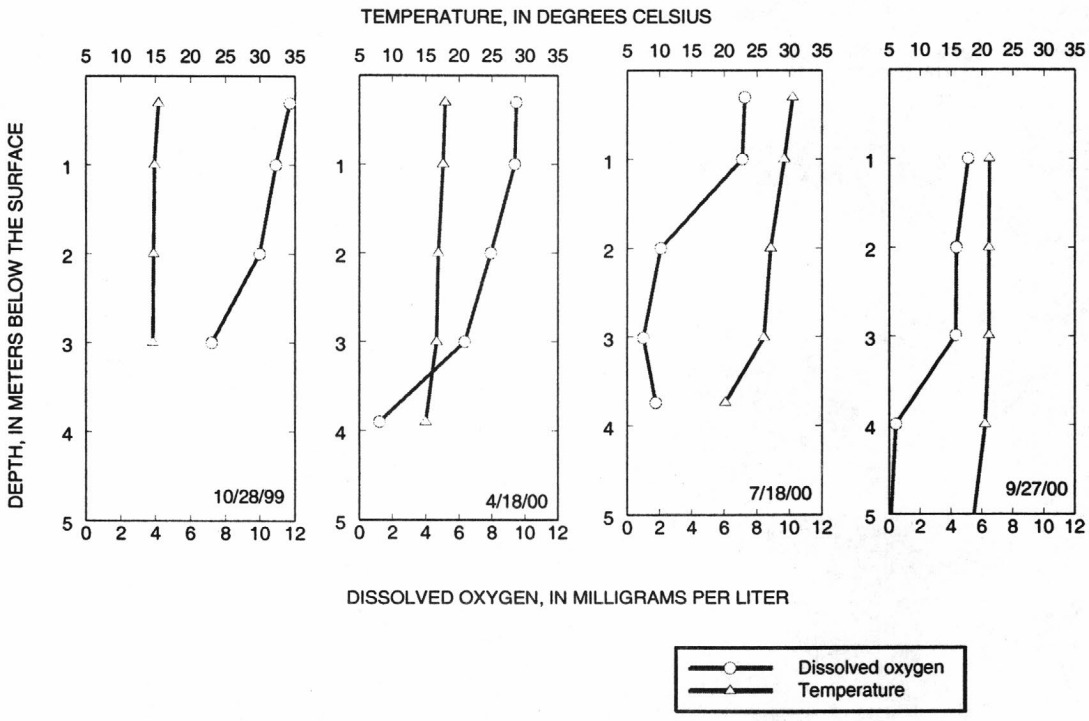
DATE	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	<3.0	<3.00	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHYL-BENZENE TOTAL (UG/L) (34371)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	<3.0	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0	<3.0	<3.0
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	NAPHTH-ALENE TOTAL (UG/L) (34696)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	SAM-PLING DEPTH (M) (00098)
OCT										
28...	--	--	--	--	--	--	--	--	--	.30
28...	--	--	--	--	--	--	--	--	--	4.0
28...	--	--	--	--	--	--	--	--	--	2.0
APR										
18...	--	--	--	--	--	--	--	--	--	.30
18...	--	--	--	--	--	--	--	--	--	2.0
18...	--	--	--	--	--	--	--	--	--	4.0
JUL										
18...	<3.0	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<1.0	.33
18...	--	--	--	--	--	--	--	--	--	2.0
18...	--	--	--	--	--	--	--	--	--	3.7
SEP										
27...	--	--	--	--	--	--	--	--	--	.30
27...	--	--	--	--	--	--	--	--	--	2.5
27...	--	--	--	--	--	--	--	--	--	5.0



USGS gaging station and weir at Long Creek tributary near Bessemer City.

02097517 MORGAN CREEK NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°53'36", long 79°01'10", Orange County, Hydrologic Unit 03030002, on left bank 2.5 mi southeast of Chapel Hill, and 3.8 mi downstream of U.S. Highway 501.

DRAINAGE AREA.--41.0 mi^2

PERIOD OF RECORD.--November 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 239.02 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. The City of Chapel Hill diverted an average of 14.7 ft^3/s for water supply upstream of station, and an average of 13.8 ft^3/s was returned as treated effluent upstream of station. Considerable diurnal fluctuation and occasional slight regulation caused by small reservoir and treated effluent outfall upstream from station. Maximum discharge for period of record from rating curve extended above 1,700 ft^3/s, by logarithmic plotting; maximum gage height, 16.18 ft, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	30	24	18	141	35	30	57	15	12	44	37
2	85	78	22	18	105	33	28	42	17	11	73	31
3	67	49	21	19	92	30	33	35	17	12	46	40
4	56	29	20	22	100	29	33	30	18	11	37	49
5	49	25	20	25	97	29	29	26	18	14	76	37
6	43	22	20	23	83	28	26	24	17	14	46	30
7	38	21	21	21	74	26	25	22	15	12	35	28
8	34	21	20	21	66	25	47	21	15	11	29	27
9	32	20	20	34	60	24	76	21	15	11	26	26
10	41	20	21	188	57	23	47	20	14	12	34	26
11	52	21	21	115	51	22	35	19	14	12	30	26
12	53	20	19	61	94	25	28	19	14	11	26	26
13	44	20	19	44	118	22	34	18	14	14	27	25
14	40	20	87	34	133	20	38	16	15	12	27	27
15	33	20	60	28	100	20	73	17	16	26	25	27
16	30	20	36	26	74	26	80	17	17	11	24	24
17	60	19	29	25	59	34	58	18	14	11	23	24
18	81	19	25	27	89	25	182	18	14	11	25	26
19	50	19	24	28	83	23	86	18	15	11	25	34
20	58	19	26	47	64	65	61	18	19	10	24	26
21	85	19	26	45	52	158	46	19	15	11	24	25
22	63	25	28	33	45	76	38	103	15	13	24	26
23	49	20	25	41	44	55	31	37	14	21	23	44
24	40	19	23	45	40	45	28	25	13	759	24	29
25	37	18	21	71	37	39	30	22	13	87	24	47
26	36	64	22	61	34	39	28	19	13	67	23	44
27	34	56	21	50	42	49	41	17	14	48	47	29
28	33	51	20	40	65	60	154	17	26	34	37	27
29	32	34	20	35	46	41	246	19	18	28	31	26
30	30	28	19	196	---	35	83	18	13	25	44	25
31	31	---	19	346	---	33	---	16	---	28	34	---
TOTAL	1573	846	799	1787	2145	1194	1774	788	467	1370	1037	918
MEAN	50.7	28.2	25.8	57.6	74.0	38.5	59.1	25.4	15.6	44.2	33.5	30.6
MAX	157	78	87	346	141	158	246	103	26	759	76	49
MIN	30	18	19	18	34	20	25	16	13	10	23	24
CFSM	1.24	.69	.63	1.41	1.80	.94	1.44	.62	.38	1.08	.82	.75
IN.	1.43	.77	.72	1.62	1.95	1.08	1.61	.71	.42	1.24	.94	.83

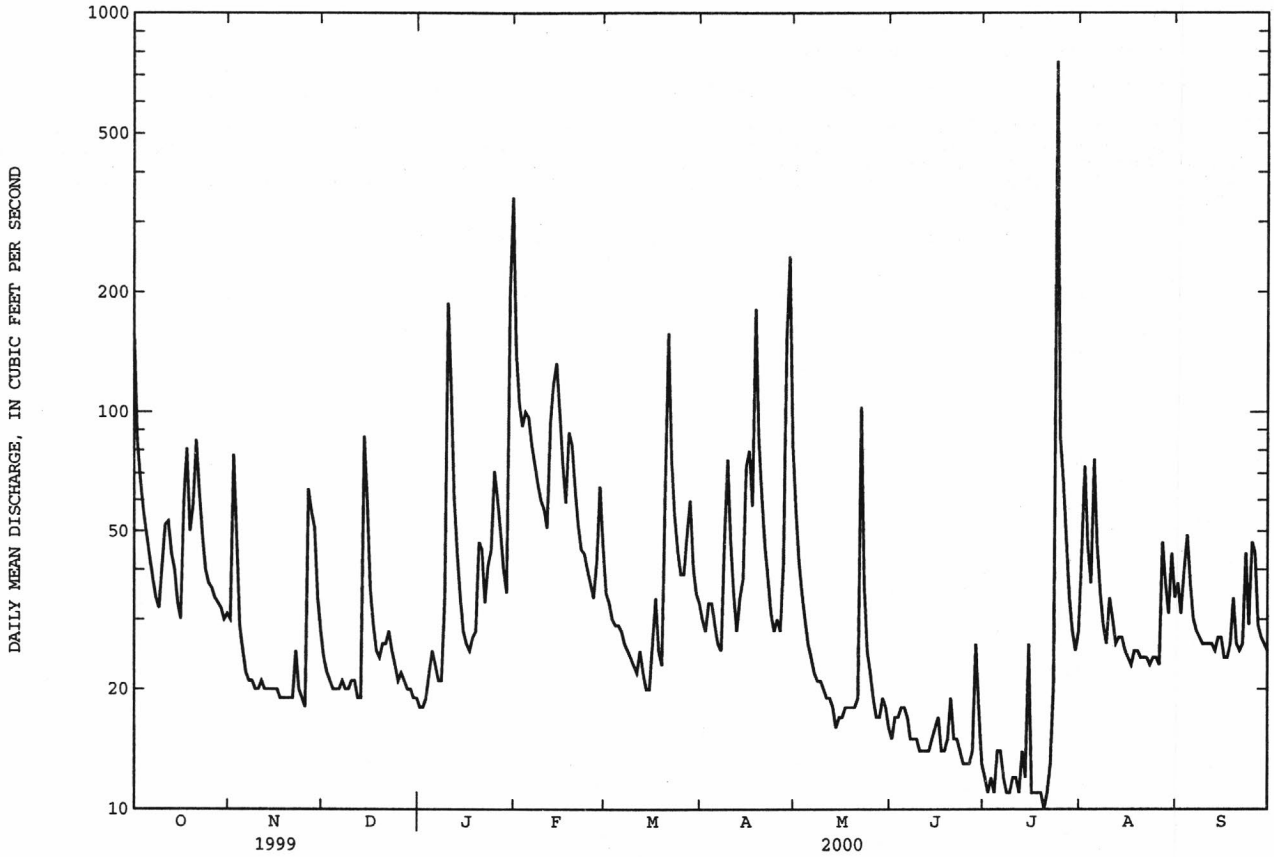
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

MEAN	24.3	36.0	36.3	72.2	80.5	97.3	56.4	33.3	24.0	20.5	21.9	35.9
MAX	50.7	141	105	184	206	226	131	91.2	84.9	51.5	65.0	272
(WY)	2000	1986	1984	1998	1998	1993	1984	1990	1992	1984	1985	1999
MIN	12.9	10.5	12.9	15.2	17.2	18.0	17.5	14.5	11.1	8.93	12.1	8.77
(WY)	1999	1983	1989	1989	1991	1988	1986	1986	1986	1988	1988	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	20134		14698			
ANNUAL MEAN	55.2		40.2		43.9	
HIGHEST ANNUAL MEAN					75.6	1984
LOWEST ANNUAL MEAN					21.7	1988
HIGHEST DAILY MEAN	1650	Sep 16	759	Jul 24	2600	Sep 6 1996
LOWEST DAILY MEAN	12	Jul 27	10	Jul 20	.60	Nov 26 1982
ANNUAL SEVEN-DAY MINIMUM	12	Jul 31	11	Jul 16	2.1	Nov 22 1982
INSTANTANEOUS PEAK FLOW			1440	Jul 24	4210*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			10.95	Jul 24	16.18*	Sep 6 1996
INSTANTANEOUS LOW FLOW			7.9	Jul 20	NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	1.35		.98		1.07	
ANNUAL RUNOFF (INCHES)	18.27		13.34		14.56	
10 PERCENT EXCEEDS	70		74		86	
50 PERCENT EXCEEDS	24		27		19	
90 PERCENT EXCEEDS	14		15		12	

* See REMARKS.

02097517 MORGAN CREEK NEAR CHAPEL HILL, NC--Continued



0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC

LOCATION.--Lat 35°47'55", long 79°00'22", Chatham County, Hydrologic Unit 03030002, .02 mi above Secondary Road 1008, and 0.2 mi east of Farrington.

PERIOD OF RECORD.--Water years 1992 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
19...	1045	761	90	8.3	6.8	78	19.6	20	5.26	1.75	2.4
APR											
27...	1000	758	81	7.9	6.8	154	16.2	33	8.47	2.86	2.7
27...	1001	758	62	6.1	6.6	154	16.1	--	--	--	--
27...	1002	758	79	7.7	6.8	153	16.2	--	--	--	--
JUL											
06...	1100	760	88	6.9	7.1	162	27.8	33	8.28	2.94	2.9
06...	1105	760	69	5.4	6.8	164	27.4	--	--	--	--
06...	1106	760	31	2.5	6.6	171	26.9	--	--	--	--
SEP											
22...	0915	754	111	9.3	8.1	159	23.7	34	8.71	2.96	3.4
22...	0930	754	112	9.4	8.0	159	23.7	--	--	--	--
22...	0945	754	32	2.7	6.7	163	22.7	--	--	--	--

DATE	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
OCT											
19...	.5	5.1	32	4.5	.1	7.5	6.9	.71	.005	.72	.014
APR											
27...	1	14.7	47	17.0	.1	1.2	11.4	.87	.071	.93	.056
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	1	15.1	47	15.9	.2	2.1	8.7	.76	<.002	--	<.005
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	1	17.4	50	15.2	.3	6.0	12.2	.88	.005	--	<.005
22...	--	--	--	--	--	--	--	.97	.006	--	<.005
22...	--	--	--	--	--	--	--	.90	.022	.91	.009

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLOR (PLATINUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	TRANSPARENCY (SECCHI DISK) (M) (00078)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)
OCT											
19...	.003	.70	.004	.055	11	75	63	.50	9.2	E.4	141
APR											
27...	.004	.80	.002	.063	10	55	92	.35	E15.0	.8	219
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	<.001	--	.002	E.039	80	48	99	.45	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	<.001	.88	.002	.073	10	25	96	.40	58.1	1.3	--
22...	.001	.96	.002	.078	--	--	--	--	--	--	--
22...	.007	.88	.004	.074	--	--	--	--	--	--	--

0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT											
19...	<3	<.1	<1	<2	2	510	<1	110	<.3	<1	<2
APR											
27...	<3	<.1	<1	<2	1	490	<1	196	<.3	1	<2
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	520	--	211	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	290	--	219	--	--	--
06...	--	--	--	--	--	830	--	807	--	--	--
SEP											
22...	--	--	--	--	--	260	--	124	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)
OCT											
19...	<3	<1	<31	--	--	--	--	--	--	--	--
APR											
27...	<3	<1	<31	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.0	<3.00
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

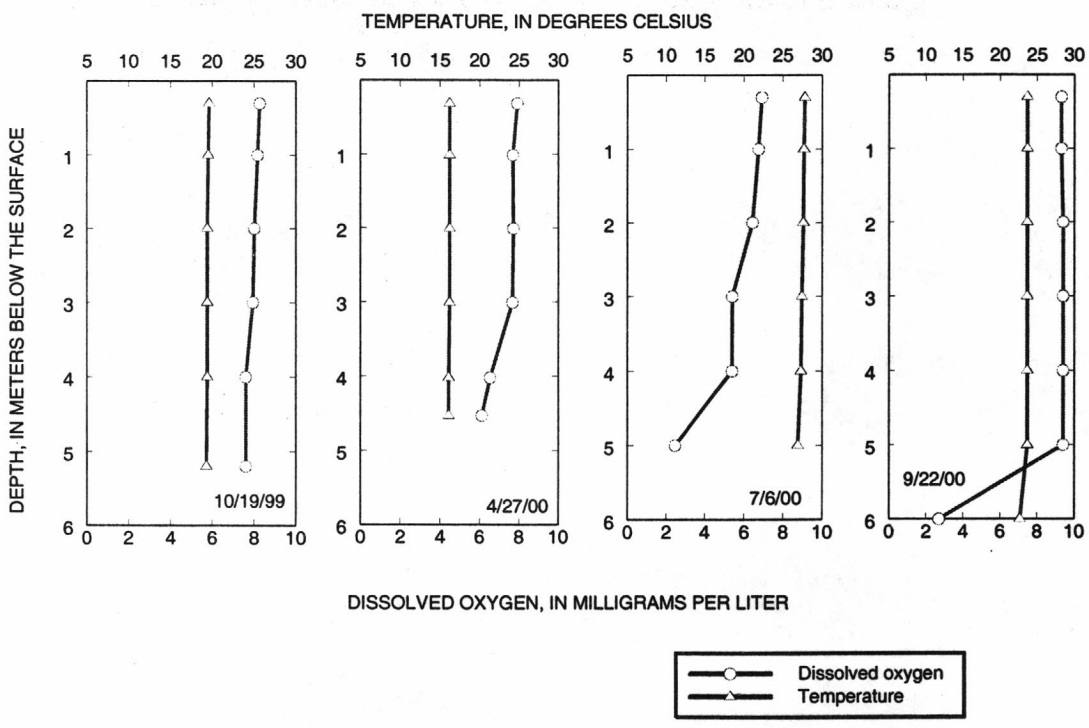
DATE	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)
OCT										
19...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.0
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

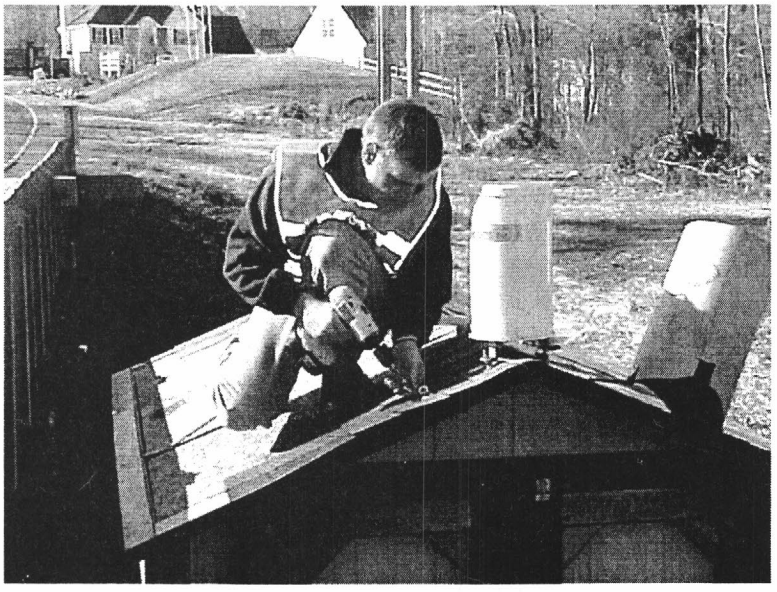
0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHYL-BENZENE TOTAL (UG/L) (34371)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)
OCT										
19...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0	<3.0	<3.0
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	NAPHTH-ALENE TOTAL (UG/L) (34696)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	SAM-PLING DEPTH (M) (00098)
OCT										
19...	--	--	--	--	--	--	--	--	--	.30
APR										
27...	--	--	--	--	--	--	--	--	--	.30
27...	--	--	--	--	--	--	--	--	--	4.5
27...	--	--	--	--	--	--	--	--	--	2.0
JUL										
06...	<3.0	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<1.0	.30
06...	--	--	--	--	--	--	--	--	--	2.5
06...	--	--	--	--	--	--	--	--	--	5.0
SEP										
22...	--	--	--	--	--	--	--	--	--	.33
22...	--	--	--	--	--	--	--	--	--	2.5
22...	--	--	--	--	--	--	--	--	--	4.5





USGS personnel installing tipping bucket raingage at McDowell Creek near Charlotte

0209782520 WHITE OAK CREEK AT GREEN LEVEL, NC

LOCATION.--Lat 35°46'32", long 78°54'11", Wake County, Hydrologic Unit 03030002, on left bank at State Road 1603, 1.7 mi west of Green Level.

DRAINAGE AREA.--6.97 mi^2.

PERIOD OF RECORD.--October 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 265 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record and current water year also occurred on June 3, 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	1.8	2.1	2.9	62	13	4.3	4.1	.01	.04	36	4.2
2	20	3.2	1.9	2.6	40	10	4.1	2.9	.01	e.02	119	1.8
3	12	7.5	1.9	2.4	35	8.8	4.5	2.1	.02	e.01	25	20
4	9.8	2.6	1.7	3.3	45	8.4	4.6	2.1	.05	e.01	78	114
5	8.1	1.8	1.8	13	41	10	3.7	2.0	.04	e.11	23	92
6	7.1	1.6	2.6	5.0	30	7.1	3.3	1.2	.17	e.03	10	e15
7	5.5	1.7	4.6	3.7	25	6.0	2.8	.84	.15	e.09	5.2	e7.7
8	4.2	1.7	2.3	3.4	22	5.2	5.6	.57	.12	e.01	2.9	4.1
9	3.3	1.5	1.9	5.5	18	5.0	24	.44	.08	e.01	1.8	2.5
10	2.8	1.4	2.1	177	17	4.5	7.5	.33	.05	e.01	7.1	1.9
11	5.4	1.6	4.0	75	14	3.7	4.1	.24	.03	e.01	5.1	1.5
12	5.2	1.4	2.6	25	53	3.9	3.2	.18	.03	e.01	1.8	1.3
13	3.6	1.3	2.1	18	57	3.0	3.6	.14	.02	e.02	1.2	1.1
14	3.3	1.3	108	12	53	2.5	9.9	.11	.05	e.10	.99	1.1
15	2.5	1.2	33	9.3	32	2.3	21	.08	.05	23	.79	1.3
16	2.1	1.1	17	8.6	20	3.5	20	.06	.03	6.5	.66	1.3
17	12	1.0	11	7.3	15	11	11	.05	.03	2.1	.59	1.0
18	85	.95	8.6	7.1	37	3.8	70	.04	.02	1.0	1.0	.97
19	18	.92	8.1	9.0	28	2.8	23	.03	.03	.45	6.7	1.1
20	12	.93	10	21	18	7.2	12	.02	.19	.31	2.4	1.4
21	32	.95	9.1	23	14	20	8.4	.02	1.5	.28	1.1	1.2
22	18	1.2	11	12	12	8.8	5.6	.02	.96	.26	.68	1.0
23	11	1.3	8.4	15	10	6.5	4.3	.01	1.5	.21	.57	5.0
24	6.9	1.3	6.5	24	9.6	5.1	3.5	.01	1.0	17	.48	13
25	4.5	1.3	5.1	36	8.9	4.5	4.3	.01	.71	6.3	.46	32
26	3.6	9.7	4.2	31	8.7	5.2	5.1	.01	.56	5.3	.41	194
27	3.1	24	4.0	25	12	7.6	8.6	.01	.31	2.3	.40	24
28	2.7	7.1	3.6	22	48	29	12	.02	.16	1.1	.42	12
29	2.3	3.6	3.2	18	18	10	22	.02	.16	49	.37	6.4
30	2.1	2.5	2.8	75	---	7.6	8.1	.02	.08	8.7	.41	3.8
31	1.9	---	2.8	194	---	6.2	---	.01	---	8.5	2.2	---
TOTAL	346.0	89.45	288.0	886.1	803.2	232.2	324.1	17.69	8.12	132.79	336.73	567.67
MEAN	11.2	2.98	9.29	28.6	27.7	7.49	10.8	.57	.27	4.28	10.9	18.9
MAX	85	24	108	194	62	29	70	4.1	1.5	49	119	194
MIN	1.9	.92	1.7	2.4	8.7	2.3	2.8	.01	.01	.01	.37	.97
CFSM	1.60	.43	1.33	4.10	3.97	1.07	1.55	.08	.04	.61	1.56	2.71
IN.	1.85	.48	1.54	4.73	4.29	1.24	1.73	.09	.04	.71	1.80	3.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2000

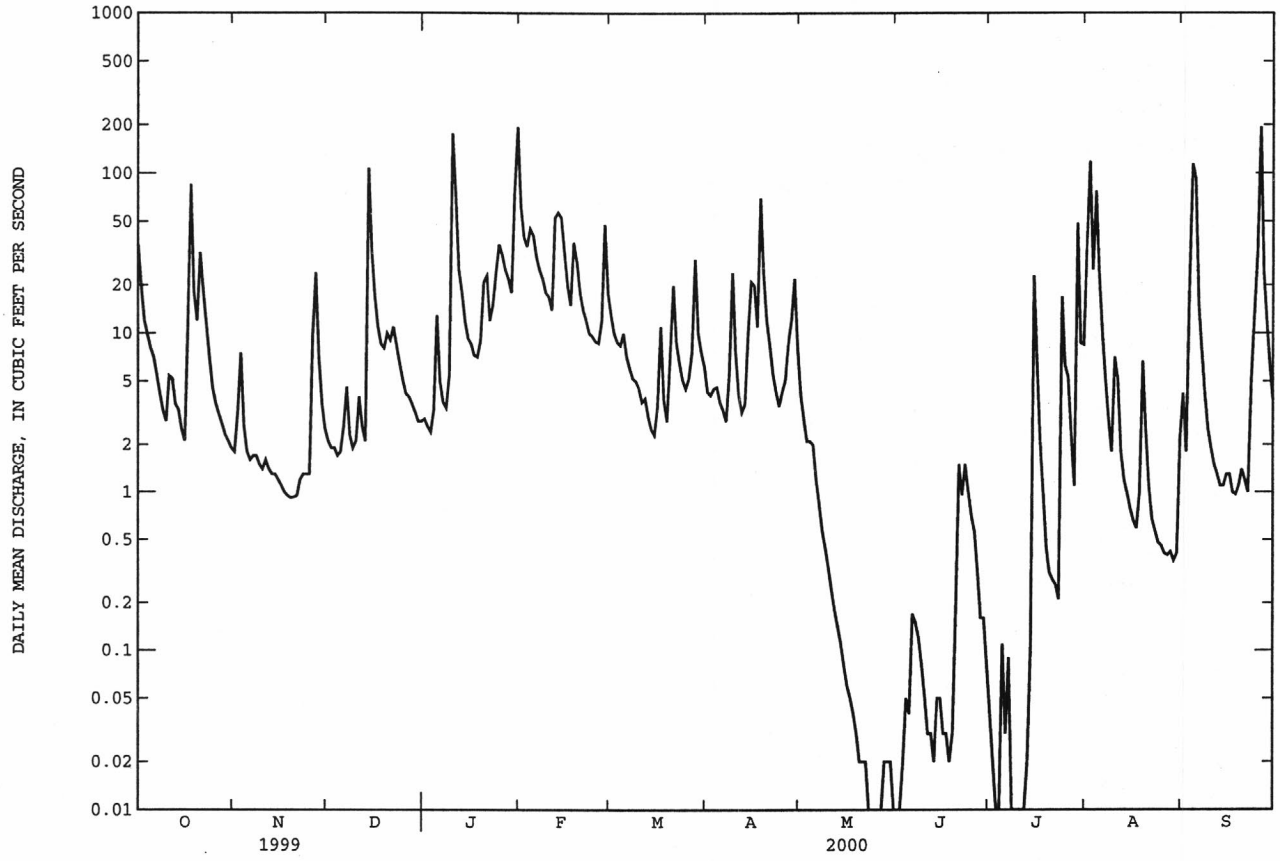
MEAN	11.2	2.98	9.29	28.6	27.7	7.49	10.8	.57	.27	4.28	10.9	18.9
MAX	11.2	2.98	9.29	28.6	27.7	7.49	10.8	.57	.27	4.28	10.9	18.9
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	11.2	2.98	9.29	28.6	27.7	7.49	10.8	.57	.27	4.28	10.9	18.9
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS FOR 2000 WATER YEAR

ANNUAL TOTAL	4032.05	
ANNUAL MEAN	11.0	
HIGHEST DAILY MEAN	194	Jan 31
LOWEST DAILY MEAN	.01	May 23
ANNUAL SEVEN-DAY MINIMUM	.01	May 21
INSTANTANEOUS PEAK FLOW	431	Sep 26
INSTANTANEOUS PEAK STAGE	8.14	Sep 26
INSTANTANEOUS LOW FLOW	.01	May 23
ANNUAL RUNOFF (CFSM)	1.58	
ANNUAL RUNOFF (INCHES)	21.52	
10 PERCENT EXCEEDS	25	
50 PERCENT EXCEEDS	3.6	
90 PERCENT EXCEEDS	.05	

e Estimated.

0209782520 WHITE OAK CREEK AT GREEN LEVEL, NC--Continued



0209782520 WHITE OAK CREEK AT GREEN LEVEL, NC

LOCATION.--Lat 35°46'32", long 78°54'11", Wake County, Hydrologic unit 03030002, at bridge on Wimberly Road, 1.5 mi southwest of Green Level.

DRAINAGE AREA.--6.97 mi^2.

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT										
29...	1230	2.2	763	93	10.3	6.7	78	10.9	22	5.23
JAN										
07...	1130	3.6	758	91	10.7	6.7	75	7.9	19	4.41
MAR										
02...	1345	10	750	80	8.1	6.6	73	13.9	18	4.31
APR										
14...	1145	10	764	89	9.9	6.6	86	10.6	24	5.55
JUN										
22...	1230	.76	755	88	7.2	6.5	66	25.2	26	6.47
SEP										
13...	1300	1.2	750	79	6.8	6.5	101	22.3	31	7.62

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT										
29...	2.07	3.1	.5	5.3	31	20	24	6.5	<.1	7.0
JAN										
07...	1.88	2.6	.6	6.2	38	16	20	7.1	<.1	9.1
MAR										
02...	1.81	2.1	.7	6.6	41	13	16	8.8	<.1	5.6
APR										
14...	2.48	2.7	.6	6.5	34	--	--	10.1	<.1	5.9
JUN										
22...	2.39	2.4	.7	8.1	38	12	14	7.2	<.1	6.6
SEP										
13...	2.86	2.5	.5	6.0	28	28	--	6.4	.1	9.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
29...	5.7	.35	.010	.37	.012	.001	.34	<.001	<.050	9.8
JAN										
07...	6.8	.50	.041	.56	.054	.002	.46	.018	E.034	9.0
MAR										
02...	6.9	.48	.002	.50	.017	<.001	.48	.004	<.050	11
APR										
14...	3.6	.73	.045	.75	.027	.002	.68	.010	.064	14
JUN										
22...	20.0	.59	.014	.63	.048	.001	.57	<.001	.052	10
SEP										
13...	3.2	.55	.023	.58	.023	.002	.53	.001	<.050	13

0209782520 WHITE OAK CREEK AT GREEN LEVEL, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT										
29...	55	59	131	<3	<.1	<1	<2	E1	900	<1
JAN										
07...	110	62	--	--	--	--	--	--	--	--
MAR										
02...	100	62	--	--	--	--	--	--	--	--
APR										
14...	150	79	304	<3	<.1	<1	2	E1	2860	E1
JUN										
22...	160	83	--	--	--	--	--	--	--	--
SEP										
13...	80	80	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
29...	56	<.3	<1	E1	<3	<1	<31	9	.05
JAN									
07...	--	--	--	--	--	--	--	5	.05
MAR									
02...	--	--	--	--	--	--	--	21	.57
APR									
14...	224	<.3	<1	E2	<3	<1	<31	14	.38
JUN									
22...	--	--	--	--	--	--	--	16	.03
SEP									
13...	--	--	--	--	--	--	--	6	.02

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC

LOCATION.--Lat 35°44'29", long 79°01'10", Chatham County, Hydrologic Unit 03030002, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.-- Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT											
19...	1130	761	73	6.6	6.6	86	20.1	20	5.14	1.82	2.7
APR											
27...	1100	758	85	8.3	6.8	131	16.4	28	6.98	2.50	2.5
27...	1101	758	65	6.4	6.3	135	16.2	--	--	--	--
27...	1102	758	82	8.0	6.7	132	16.4	--	--	--	--
JUL											
06...	1145	760	108	8.4	7.8	110	28.2	30	7.57	2.81	2.6
06...	1150	760	24	1.9	6.8	145	27.5	--	--	--	--
06...	1151	760	5	.4	6.5	166	21.3	--	--	--	--
SEP											
22...	1030	754	104	8.6	7.9	147	24.3	31	7.92	2.80	3.0
22...	1045	754	90	7.5	7.4	147	24.1	--	--	--	--
22...	1100	754	63	5.3	6.9	148	23.5	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT											
19...	.7	6.9	39	6.4	.1	6.5	<.3	.63	.048	.73	.095
APR											
27...	1	12.7	47	14.7	<.1	.8	11.0	.60	.044	.60	.005
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	1	13.4	46	14.0	.1	2.1	7.9	.62	<.002	.63	.005
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	1	14.8	48	13.7	.2	4.5	10.6	.86	.005	--	<.005
22...	--	--	--	--	--	--	--	.77	.005	.78	.006
22...	--	--	--	--	--	--	--	.71	.023	.77	.065

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
OCT											
19...	.011	.58	.003	E.042	9.3	55	64	.75	4.9	E.3	87
APR											
27...	.003	.56	<.001	E.031	8.4	35	81	.65	E5.3	.7	59
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	<.001	--	.002	E.031	2.3	31	88	.75	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	.001	.85	.002	E.042	9.2	20	87	.50	35.5	.8	--
22...	.004	.77	.003	.056	--	--	--	--	--	--	--
22...	.027	.68	.001	E.044	--	--	--	--	--	--	--

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)
OCT											
19...	<3	<.1	3	<2	3	270	<1	102	<.3	<1	<2
APR											
27...	<3	<.1	<1	<2	E1	120	<1	89	<.3	<1	<2
27...	--	--	--	--	--	450	--	413	--	--	--
27...	--	--	--	--	--	140	--	108	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	60	--	84	--	--	--
06...	--	--	--	--	--	3910	--	3660	--	--	--
SEP											
22...	--	--	--	--	--	130	--	105	--	--	--
22...	--	--	--	--	--	150	--	120	--	--	--
22...	--	--	--	--	--	140	--	167	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)
OCT											
19...	<3	<1	<31	--	--	--	--	--	--	--	--
APR											
27...	<3	<1	<31	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.0	<3.00
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

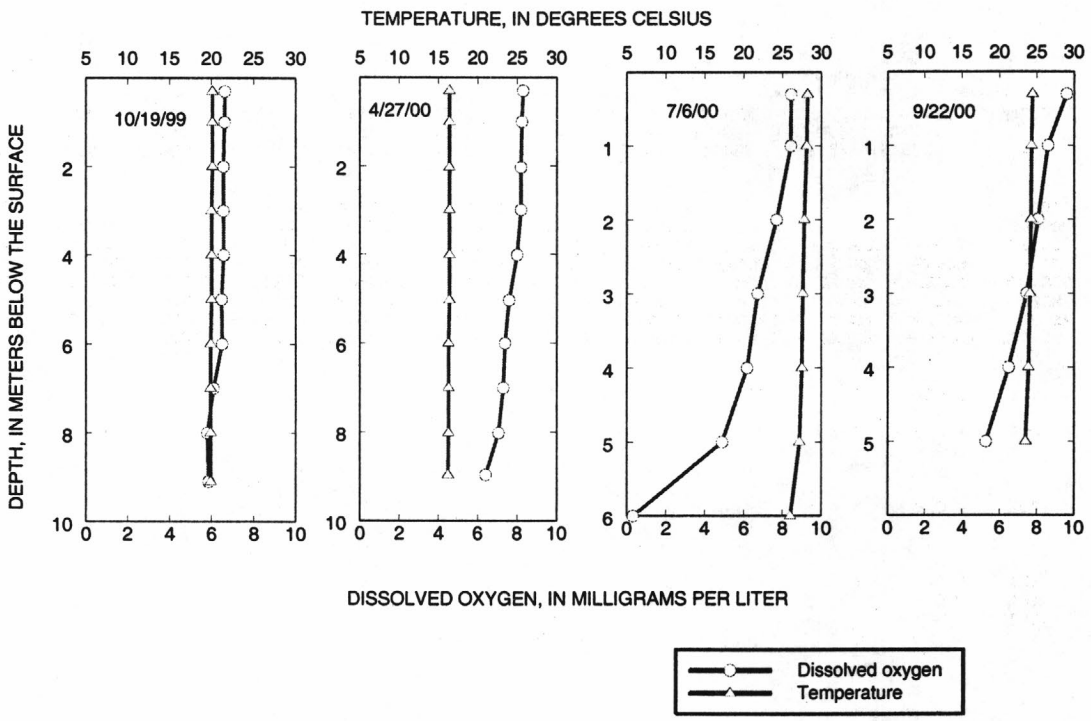
DATE	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)
OCT										
19...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.0
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHYL-BENZENE TOTAL (UG/L) (34371)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)
OCT										
19...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0	<3.0	<3.0
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	NAPHTH-ALENE TOTAL (UG/L) (34696)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	SAM-PLING DEPTH (M) (00098)
OCT										
19...	--	--	--	--	--	--	--	--	--	.30
APR										
27...	--	--	--	--	--	--	--	--	--	.30
27...	--	--	--	--	--	--	--	--	--	9.0
27...	--	--	--	--	--	--	--	--	--	4.0
JUL										
06...	<3.0	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<1.0	.30
06...	--	--	--	--	--	--	--	--	--	4.0
06...	--	--	--	--	--	--	--	--	--	8.0
SEP										
22...	--	--	--	--	--	--	--	--	--	.33
22...	--	--	--	--	--	--	--	--	--	2.5
22...	--	--	--	--	--	--	--	--	--	5.0



0209801100 B. EVERETT JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC

LOCATION.--Lat 35°43'38", long 79°02'35", Chatham County, Hydrologic Unit 03030002, at Bells Landing and 2.0 mi southeast of Griffins Crossroads.

PERIOD OF RECORD.--Water years 1991-1995, 1999 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in November 1994 and May 1995. Results may be obtained from the District office in Raleigh. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)
OCT												
19...	1315	761	76	6.8	6.6	103	20.2	20	5.02	1.88	2.8	.8
APR												
27...	1330	756	100	9.5	7.2	121	17.3	25	6.24	2.33	2.5	1
27...	1331	758	74	7.3	6.4	123	15.9	--	--	--	--	--
27...	1332	758	93	9.0	6.9	121	16.4	--	--	--	--	--
JUL												
06...	1330	762	104	7.9	7.9	149	29.3	28	6.83	2.65	2.5	1
06...	1335	762	70	5.6	6.8	149	27.1	--	--	--	--	--
06...	1336	762	31	2.8	6.5	165	20.7	--	--	--	--	--
SEP												
22...	1130	754	76	6.3	7.0	154	23.6	32	7.85	2.90	3.2	1
22...	1145	754	74	6.2	7.0	154	23.6	--	--	--	--	--
22...	1200	754	39	3.3	6.7	156	23.4	--	--	--	--	--

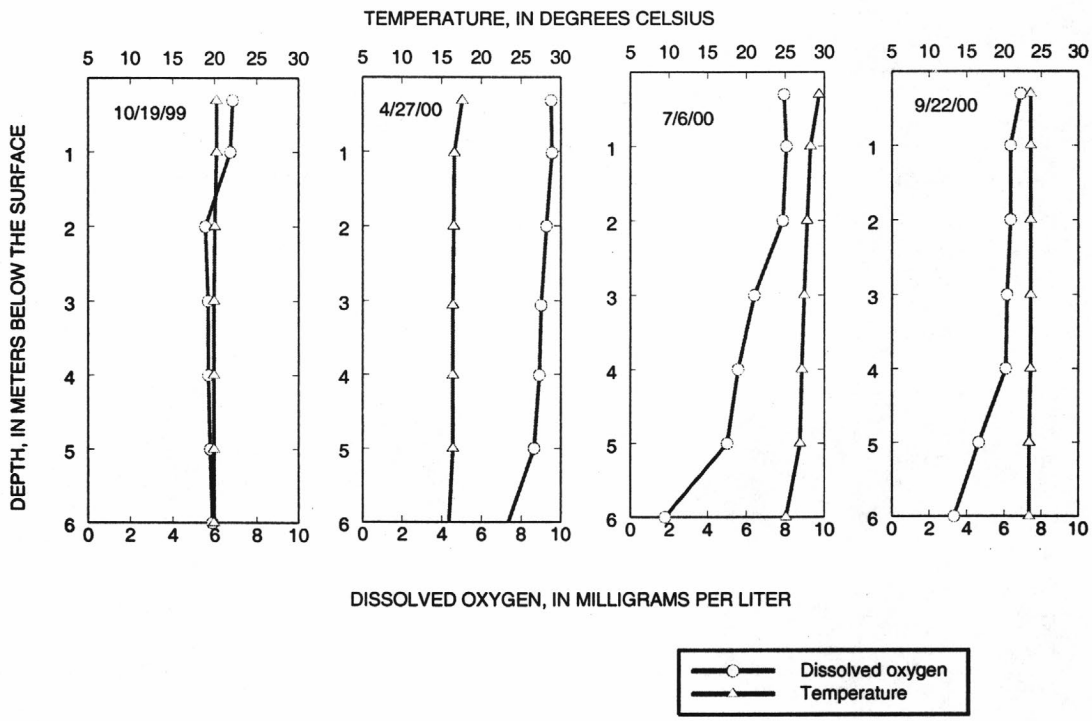
DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT												
19...	8.7	44	8.7	.1	6.3	10.5	.66	.006	.81	.147	.007	.65
APR												
27...	11.6	47	12.3	<.1	2.3	11.5	.61	.015	.67	.063	.005	.59
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	13.7	49	13.8	.1	2.7	9.5	.59	<.002	--	<.005	<.001	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
22...	15.7	49	13.7	.2	4.9	11.8	.76	.025	.83	.071	.012	.73
22...	--	--	--	--	--	--	.70	.012	.77	.071	.012	.69
22...	--	--	--	--	--	--	.89	.128	.97	.080	.020	.76

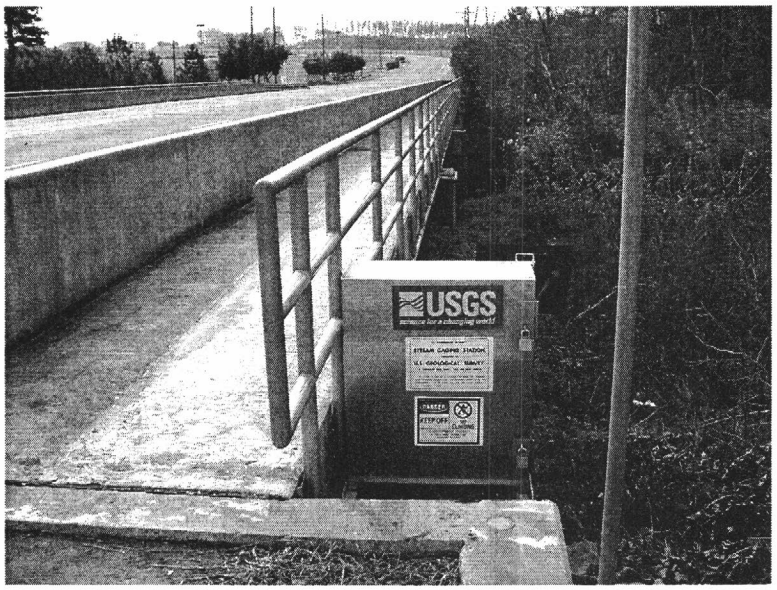
DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLOR (PLATINUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	TRANSPARENCY (SECCHI DISK) (M) (00078)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
OCT												
19...	.003	E.046	8.0	55	73	.75	4.9	E.3	111	<3	<.1	<1
APR												
27...	<.001	E.033	7.8	20	80	--	E7.3	.5	36	<3	<.1	<1
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	.002	<.050	9.8	25	91	.75	6.0	<.1	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
22...	.001	E.046	8.0	20	90	.50	26.3	.8	--	--	--	--
22...	.001	E.037	--	--	--	--	--	--	--	--	--	--
22...	.001	.079	--	--	--	--	--	--	--	--	--	--

0209801100 B. EVERETT JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SAM-PLING DEPTH (M) (00098)
OCT												
19...	<2	1	330	<1	148	<.3	<1	<2	<3	<1	<31	.30
APR												
27...	<2	E1	90	<1	49	<.3	1	<2	<3	<1	<31	.30
27...	--	--	230	--	120	--	--	--	--	--	--	6.9
27...	--	--	110	--	64	--	--	--	--	--	--	3.0
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	.30
06...	--	--	50	--	100	--	--	--	--	--	--	4.0
06...	--	--	2740	--	2930	--	--	--	--	--	--	8.0
SEP												
22...	--	--	140	--	133	--	--	--	--	--	--	.33
22...	--	--	140	--	132	--	--	--	--	--	--	3.0
22...	--	--	940	--	548	--	--	--	--	--	--	5.5





USGS gaging station at Mallard Creek below Stony Creek.

02098197 B. EVERETT JORDAN LAKE AT DAM NEAR MONCURE, NC

LOCATION.--Lat 35°39'16", long 79°04'06", Chatham County, Hydrologic Unit 03030002, at B. Everett Jordan Dam on Haw River, 0.3 mi downstream of mouth of New Hope River, 2.5 mi north of Moncure, 4.2 mi upstream from mouth of Haw River, and 202.2 mi upstream from mouth of Cape Fear River.

DRAINAGE AREA.--1,689 mi^2.

PERIOD OF RECORD.--May 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Lake elevations controlled by reservoir operations at B. Everett Jordan Dam. Lake is used for flood control, water supply, low-flow augmentation, and recreation. Some storage was affected during construction and then operated temporarily as a "dry reservoir" January 1975 to August 1981. Reservoir began filling September 1981 and reached normal pool elevation, 216 ft, Feb. 4, 1982. Total capacity is 32,825,074,000 ft^3 at 240.0 ft, of which 23,454,011,000 ft^3 is controlled flood storage. (See station 02098198.)

EXTREMES FOR PERIOD OF RECORD.--Maximum, 233.59 ft, Sept. 8, 1996; minimum, 207.85 ft, Nov. 12, 1986.

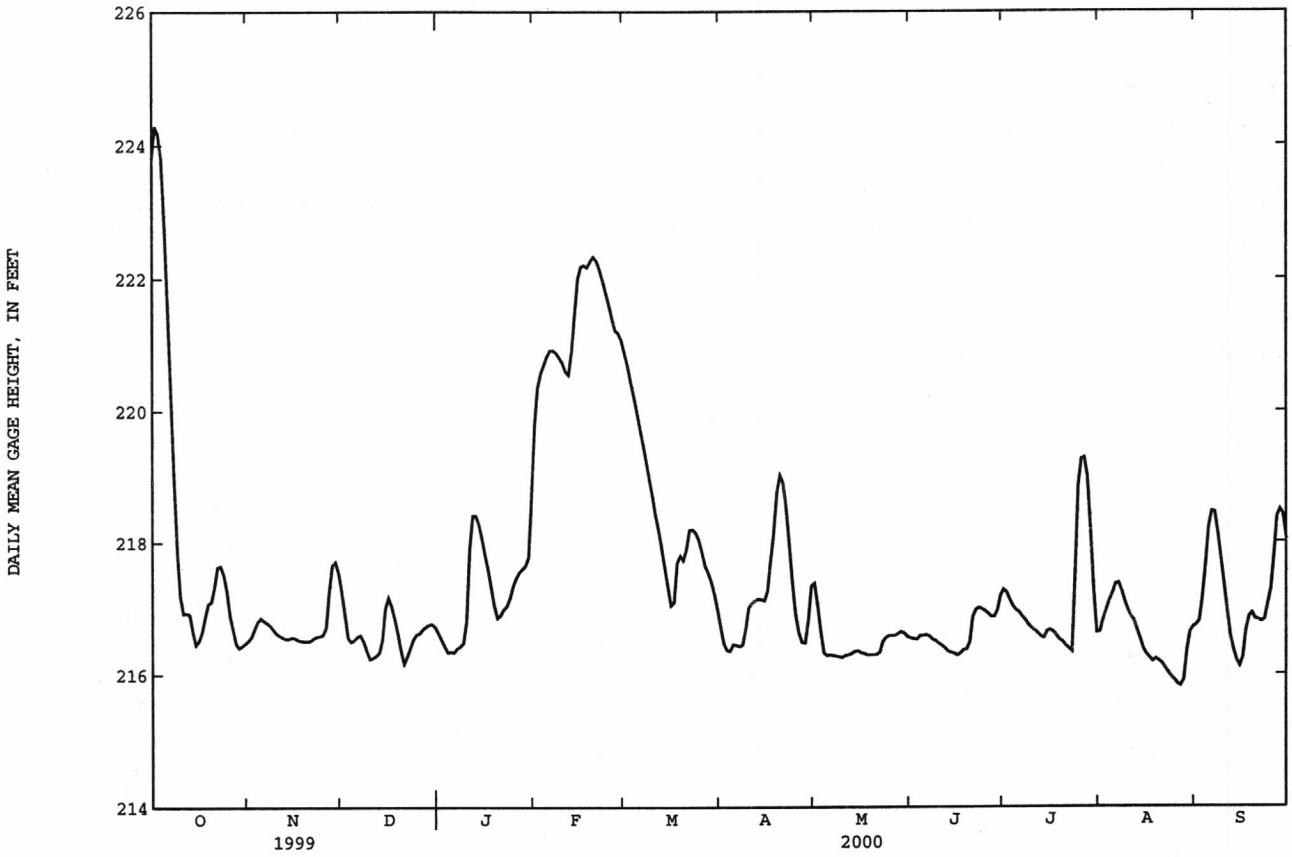
EXTREMES FOR CURRENT YEAR.--Maximum, 224.34 ft, Oct. 2; minimum, 215.77 ft, Aug. 27.

COOPERATION.--Some records furnished by U.S. Army Corps of Engineers.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223.81	216.52	217.25	216.63	219.77	220.88	216.71	217.38	216.55	217.28	216.64	216.74
2	224.29	216.58	216.90	216.53	220.35	220.69	216.47	217.06	216.54	217.24	216.83	216.80
3	224.17	216.70	216.56	216.43	220.57	220.45	216.37	216.65	216.53	217.13	216.97	217.16
4	223.81	216.81	216.50	216.34	220.70	220.23	216.36	216.33	216.59	217.03	217.11	217.65
5	222.80	216.86	216.53	216.35	220.83	219.99	216.46	216.29	216.59	216.97	217.22	218.22
6	221.56	216.82	216.58	216.34	220.92	219.74	216.45	216.30	216.60	216.94	217.36	218.46
7	220.28	216.79	216.60	216.40	220.92	219.50	216.43	216.29	216.58	216.87	217.38	218.45
8	218.97	216.75	216.50	216.43	220.88	219.24	216.45	216.28	216.53	216.82	217.26	218.12
9	217.88	216.69	216.36	216.48	220.81	218.97	216.69	216.27	216.51	216.75	217.10	217.74
10	217.18	216.63	216.24	216.81	220.73	218.72	217.01	216.26	216.47	216.70	216.97	217.35
11	216.93	216.60	216.26	217.90	220.60	218.42	217.08	216.29	216.44	216.66	216.87	216.95
12	216.94	216.57	216.29	218.41	220.55	218.19	217.12	216.30	216.40	216.62	216.81	216.58
13	216.92	216.55	216.34	218.41	220.90	217.91	217.15	216.32	216.35	216.57	216.67	216.37
14	216.66	216.55	216.53	218.28	221.46	217.62	217.14	216.35	216.33	216.55	216.53	216.21
15	216.46	216.57	217.01	218.06	222.00	217.33	217.12	216.36	216.32	216.65	216.38	216.12
16	216.52	216.56	217.17	217.81	222.18	217.05	217.26	216.33	216.29	216.67	216.30	216.25
17	216.65	216.53	217.04	217.59	222.20	217.10	217.72	216.32	216.32	216.64	216.25	216.66
18	216.88	216.52	216.85	217.31	222.17	217.70	218.15	216.30	216.37	216.58	216.19	216.87
19	217.08	216.51	216.63	217.04	222.26	217.80	218.75	216.30	216.38	216.52	216.23	216.92
20	217.11	216.51	216.37	216.86	222.33	217.73	219.02	216.30	216.49	216.49	216.20	216.83
21	217.33	216.52	216.17	216.90	222.27	217.90	218.91	216.30	216.87	216.43	216.16	216.82
22	217.63	216.56	216.28	216.99	222.14	218.19	218.50	216.34	216.98	216.39	216.09	216.79
23	217.65	216.58	216.41	217.04	221.98	218.20	217.95	216.50	217.01	216.34	216.02	216.82
24	217.52	216.59	216.54	217.16	221.79	218.15	217.39	216.56	216.99	217.53	215.96	217.06
25	217.28	216.61	216.61	217.34	221.61	218.04	216.90	216.59	216.96	218.85	215.91	217.28
26	216.90	216.72	216.63	217.46	221.41	217.86	216.63	216.59	216.92	219.26	215.85	217.78
27	216.69	217.27	216.69	217.55	221.22	217.65	216.49	216.59	216.87	219.28	215.82	218.38
28	216.48	217.66	216.73	217.60	221.18	217.54	216.48	216.62	216.87	218.99	215.91	218.49
29	216.41	217.71	216.76	217.65	221.07	217.41	216.82	216.65	216.97	218.18	216.36	218.42
30	216.44	217.54	216.77	217.78	---	217.22	217.34	216.62	217.19	217.26	216.64	218.07
31	216.48	---	216.72	218.73	---	216.98	---	216.57	---	216.63	216.71	---
MEAN	218.38	216.75	216.61	217.25	221.30	218.40	217.18	216.46	216.63	217.12	216.54	217.28
MAX	224.29	217.71	217.25	218.73	222.33	220.88	219.02	217.38	217.19	219.28	217.38	218.49
MIN	216.41	216.51	216.17	216.34	219.77	216.98	216.36	216.26	216.29	216.34	215.82	216.12

02098197 B. EVERETT JORDAN LAKE AT DAM NEAR MONCURE, NC--Continued



02098198 HAW RIVER BELOW B. EVERETT JORDAN LAKE DAM NEAR MONCURE, NC

LOCATION.--Lat 35°39'11", long 79°04'03", Chatham County, Hydrologic Unit 0303002, on right bank 300 ft downstream from B. Everett Jordan Lake Dam, 2.5 mi north of Moncure, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--1,689 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1965 to current year. Discharge records, October 1965 to September 1992. Gage height records only, October 1992 to current year. October 1965 to September 1978, published as "Haw River nr Haywood, NC" (02098200).

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

GAGE.--Water-stage recorder. Datum of gage is 155.00 ft above sea level (U.S. Corps of Engineers bench mark). Prior to Oct. 1, 1978, water-stage recorder at site 0.3 mi. downstream at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 22.41 ft, Oct. 25, 1971 at site 0.3 mi downstream; minimum not determined.

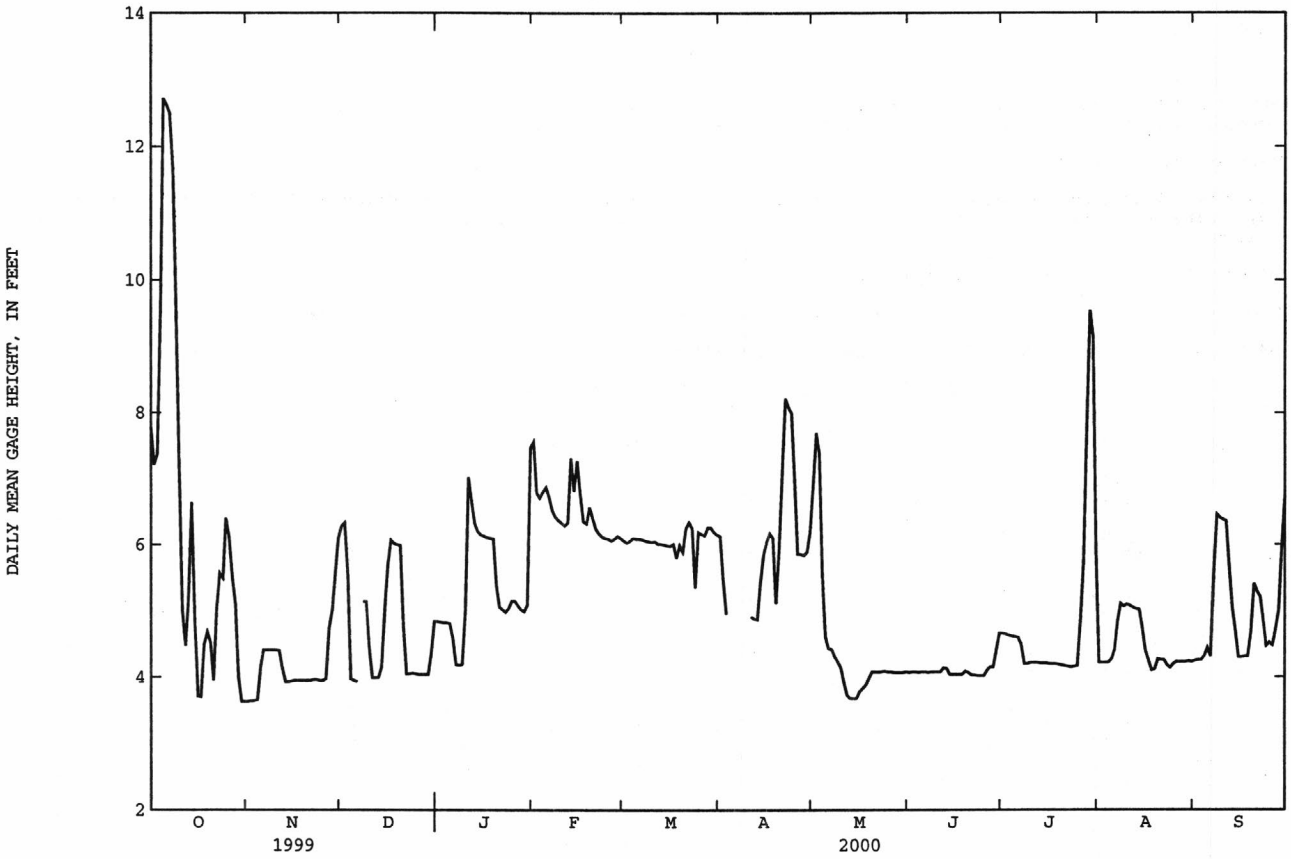
EXTREMES FOR CURRENT YEAR.--Maximum, 12.89 ft, Oct. 4; minimum, 3.57 ft, Oct. 30, 31, Nov. 2, Mar. 24.

REMARKS.--Stage regulated by B. Everett Jordan Lake Dam (Station 02098197).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.78	3.63	6.28	4.84	7.56	6.06	6.13	6.92	4.07	4.66	4.22	4.25
2	7.21	3.64	6.33	4.83	6.79	6.03	5.45	7.69	4.08	4.65	4.22	4.26
3	7.37	3.64	5.52	4.82	6.71	6.06	4.95	7.38	4.08	4.63	4.22	4.26
4	9.56	3.66	3.97	4.82	6.80	6.10	---	5.55	4.07	4.62	4.22	4.32
5	12.72	4.16	3.95	4.81	6.87	6.09	---	4.61	4.08	4.61	4.27	4.44
6	12.63	4.41	3.93	4.58	6.72	6.09	---	4.43	4.08	4.60	4.41	4.31
7	12.50	4.41	---	4.19	6.52	6.08	---	4.42	4.07	4.49	4.84	5.59
8	11.66	4.41	5.14	4.18	6.42	6.06	---	4.31	4.08	4.20	5.11	6.46
9	9.69	4.41	5.14	4.19	6.37	6.05	---	4.23	4.08	4.20	5.07	6.41
10	7.23	4.41	4.45	4.98	6.33	6.04	---	4.14	4.08	4.22	5.10	6.38
11	5.01	4.40	3.99	7.02	6.29	6.05	4.91	3.92	4.08	4.22	5.08	6.36
12	4.47	4.13	3.99	6.66	6.33	6.01	4.88	3.73	4.14	4.22	5.05	5.67
13	5.17	3.93	3.99	6.32	7.31	6.01	4.87	3.68	4.13	4.21	5.03	5.05
14	6.64	3.93	4.15	6.20	6.81	6.00	5.43	3.68	4.04	4.21	5.02	4.70
15	4.84	3.94	5.00	6.15	7.27	5.99	5.85	3.68	4.04	4.21	4.74	4.30
16	3.71	3.95	5.70	6.13	6.77	5.98	6.04	3.78	4.04	4.20	4.40	4.30
17	3.70	3.95	6.07	6.11	6.35	6.01	6.17	3.83	4.04	4.20	4.25	4.31
18	4.49	3.95	6.02	6.10	6.32	5.80	6.10	3.88	4.04	4.20	4.10	4.31
19	4.68	3.95	6.00	6.09	6.57	5.99	5.11	3.98	4.09	4.19	4.12	4.68
20	4.52	3.95	5.99	5.38	6.40	5.89	5.92	4.08	4.07	4.18	4.27	5.41
21	3.95	3.95	4.77	5.06	6.24	6.25	7.10	4.08	4.03	4.17	4.26	5.29
22	5.04	3.96	4.05	5.02	6.17	6.34	8.21	4.08	4.03	4.16	4.26	5.21
23	5.57	3.96	4.05	4.98	6.12	6.25	8.08	4.08	4.02	4.15	4.18	4.86
24	5.49	3.95	4.06	5.04	6.10	5.35	7.99	4.09	4.02	4.16	4.14	4.47
25	6.40	3.95	4.05	5.15	6.09	6.19	6.97	4.08	4.02	4.17	4.20	4.52
26	6.12	3.97	4.04	5.15	6.06	6.16	5.86	4.08	4.10	4.86	4.23	4.48
27	5.51	4.74	4.04	5.08	6.09	6.14	5.86	4.07	4.15	5.73	4.23	4.71
28	5.09	5.01	4.04	5.02	6.13	6.26	5.84	4.07	4.15	7.75	4.23	5.00
29	4.00	5.60	4.04	4.99	6.10	6.26	5.89	4.07	4.41	9.54	4.23	5.98
30	3.63	6.10	4.36	5.09	---	6.19	6.19	4.07	4.66	9.13	4.24	6.74
31	3.63	---	4.84	7.47	---	6.15	---	4.08	---	5.89	4.23	---
MEAN	6.45	4.20	---	5.37	6.50	6.06	---	4.41	4.10	4.86	4.46	5.03
MAX	12.72	6.10	---	7.47	7.56	6.34	---	7.69	4.66	9.54	5.11	6.74
MIN	3.63	3.63	---	4.18	6.06	5.35	---	3.68	4.02	4.15	4.10	4.25

02098198 HAW RIVER BELOW B. EVERETT JORDAN LAKE DAM NEAR MONCURE, NC--Continued



02098198 HAW RIVER BELOW B. EVERETT JORDAN DAM NEAR MONCURE, NC--Continued

PRECIPITATION RECORDS

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

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	1.40	.00
2	.00	.69	.00	.00	.00	.00	.07	.00	.00	.00	.16	.22
3	.00	.00	.00	.00	.00	.00	.03	.00	.07	.00	.64	.17
4	.00	.00	.00	.24	.00	.16	---	.00	.01	.00	.08	.56
5	.00	.00	.00	.00	.00	.01	---	.00	.06	.08	.05	.01
6	.01	.00	.12	.00	.00	.00	---	.00	.00	.07	.00	.00
7	.00	.00	.00	.06	.00	.00	---	.00	.00	.26	.00	.00
8	.00	.00	.00	.07	.00	.00	.62	.00	.00	.00	.00	.00
9	.00	.00	.00	.27	.00	.00	.00	.00	.00	.00	.00	.00
10	.25	.00	.10	.96	.00	.00	.00	.00	.00	.00	.17	.00
11	.19	.01	.00	.00	.00	.06	.00	.00	.00	.02	.00	.00
12	.00	.00	.00	.00	.51	.00	.00	.00	.00	.11	.00	.00
13	.15	.00	.03	.00	.01	.00	.25	.00	.00	.31	.19	.00
14	.00	.01	.69	.00	.29	.00	.01	.00	.24	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.23	.00	.10	.03	.00	.00
16	.00	.00	.00	.00	.00	.19	.00	.00	.00	.07	.00	.00
17	.96	.00	.00	.00	.00	.00	.47	.16	.44	.00	.00	.00
18	.00	.00	.00	.00	.33	.00	.08	.00	.01	.00	.07	.25
19	.00	.00	.15	.17	.00	.00	.00	.00	1.06	.01	.00	.03
20	.29	.00	.03	.23	.00	.69	.00	.00	.00	.00	.00	.00
21	.03	.17	.07	.00	.00	.01	.00	.13	.00	.01	.00	.02
22	.00	.11	.01	.00	.00	.00	.00	.09	.22	.00	.00	.39
23	.00	.01	.00	.29	.00	.00	.00	.04	.00	.10	.00	.47
24	.00	.00	.01	.20	.00	.00	.01	.00	.00	1.78	.00	.00
25	.00	.01	.00	.00	.00	.00	.07	.00	.00	.28	.00	1.63
26	.00	1.17	.00	.02	.00	.00	.00	.00	.00	.03	.00	.01
27	.00	.00	.00	.00	.50	.24	.08	.02	.00	.00	.11	.00
28	.00	.00	.00	.07	.01	.00	1.05	.14	.69	.00	.00	.00
29	.00	.00	.00	.02	.00	.00	.00	.02	.30	.00	.00	.00
30	.01	.00	.00	.57	---	.06	.01	.00	.00	.01	.26	.00
31	.00	---	.00	.18	---	.00	---	.00	---	.24	.07	---
TOTAL	1.89	2.18	1.21	3.35	1.68	1.42	---	0.60	3.20	3.41	3.20	3.76

USGS gaging station at Rocky River above
Irish Buffalo Creek near Rocky River.

02099000 EAST FORK DEEP RIVER NEAR HIGH POINT, NC

LOCATION.--Lat 36°02'15", long 79°56'46", Guilford County, Hydrologic Unit 03030003, on right bank 5 ft upstream from bridge on Secondary Road 1541, 3.3 mi upstream from High Point Dam, and 5.2 mi northeast of High Point College, High Point.

DRAINAGE AREA.--14.8 mi^2.

PERIOD OF RECORD.--July 1928 to March 1994, October 1997 to current year.

REVISED RECORDS.--WSP 1723: 1929(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 764.02 ft above sea level. Satellite telemetry at station.

REMARKS.--Records poor. Maximum discharge, 6,300 ft^3/s, gage height, 10.87 ft, from floodmark, from rating curve extended above 1,600 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred July 22, Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	6.5	5.6	5.0	44	9.8	6.6	10	7.3	8.2	16	630
2	10	21	5.4	4.9	30	8.2	6.4	9.5	6.9	7.0	12	603
3	8.0	10	5.2	e4.8	34	7.2	62	9.5	20	6.2	8.3	102
4	8.1	7.7	5.0	e15	38	6.7	21	8.0	26	5.2	8.9	61
5	8.0	6.9	5.7	e10	29	6.2	14	7.0	11	4.7	8.0	25
6	7.1	6.3	10	e7.6	21	6.1	12	5.9	13	6.4	6.7	14
7	6.1	7.1	7.6	6.1	21	6.0	11	5.4	8.3	5.5	5.1	11
8	5.1	6.8	7.2	5.7	19	5.8	44	4.9	8.0	4.3	4.1	9.4
9	5.1	6.4	7.2	39	16	5.9	25	4.6	7.1	3.7	3.8	8.4
10	12	6.2	12	177	14	8.8	12	4.4	6.6	3.1	24	7.6
11	37	6.1	9.6	29	13	8.2	10	3.8	6.4	2.5	20	6.8
12	11	6.0	7.9	13	193	8.1	8.9	3.5	6.1	2.8	12	5.8
13	136	5.4	7.9	11	36	6.5	24	3.3	5.8	30	8.1	4.9
14	24	5.3	186	9.2	153	8.7	16	3.2	5.2	11	6.2	6.5
15	10	4.8	19	7.9	25	5.8	93	3.0	6.4	8.0	5.0	1290
16	7.9	5.1	11	7.0	16	119	152	2.9	11	6.5	3.8	52
17	17	5.0	8.7	6.3	12	183	23	2.9	7.5	5.5	2.9	20
18	11	5.0	7.8	9.0	44	20	43	5.2	20	4.5	12	18
19	7.6	5.0	7.0	e14	19	14	17	4.5	49	3.8	13	238
20	42	5.1	7.9	29	12	81	12	6.8	17	2.8	7.2	39
21	26	5.3	54	15	10	108	10	11	9.9	2.5	5.6	96
22	11	5.9	23	e12	9.4	21	8.7	16	7.7	2.5	4.3	187
23	8.5	5.8	12	e13	8.7	15	7.8	7.3	6.8	12	3.4	106
24	8.2	5.8	9.1	e15	8.3	13	7.5	8.1	5.9	23	3.3	46
25	7.9	5.9	7.2	16	7.8	11	12	32	5.6	13	3.2	27
26	7.5	97	6.6	14	7.5	9.6	9.1	11	5.3	8.6	2.7	58
27	7.3	21	6.0	11	7.3	10	8.0	8.5	4.3	7.0	3.1	24
28	6.5	10	5.8	9.4	6.9	10	95	8.7	14	6.0	178	16
29	6.0	8.4	5.5	8.1	9.9	7.8	55	9.4	79	5.0	16	11
30	6.0	6.7	5.4	137	---	8.4	15	8.3	12	4.3	9.3	10
31	6.1	---	5.2	83	---	7.4	---	7.9	---	4.8	16	---
TOTAL	488.0	309.5	483.5	744.0	864.8	746.2	841.0	236.5	399.1	220.4	432.0	3733.4
MEAN	15.7	10.3	15.6	24.0	29.8	24.1	28.0	7.63	13.3	7.11	13.9	124
MAX	136	97	186	177	193	183	152	32	79	30	178	1290
MIN	5.1	4.8	5.0	4.8	6.9	5.8	6.4	2.9	4.3	2.5	2.7	4.9
CFSM	1.06	.70	1.05	1.62	2.01	1.63	1.89	.52	.90	.48	.94	8.41
IN.	1.23	.78	1.22	1.87	2.17	1.88	2.11	.59	1.00	.55	1.09	9.38

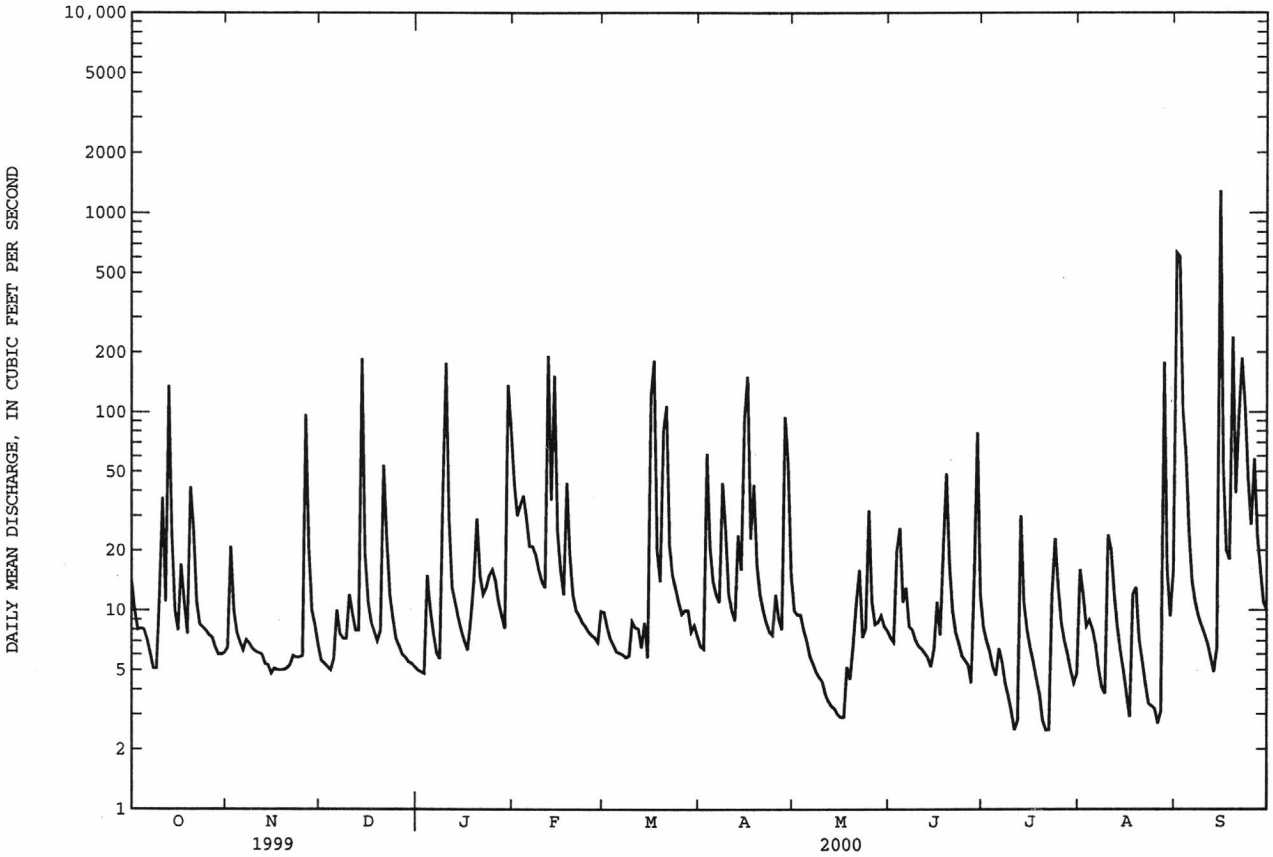
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000@, BY WATER YEAR (WY)

MEAN	11.9	11.7	16.3	24.7	27.7	26.4	21.1	15.6	12.4	12.6	12.5	14.4
MAX	79.5	39.2	48.6	82.9	83.0	106	71.6	58.8	61.5	97.5	55.9	124
(WY)	1960	1980	1933	1978	1979	1975	1987	1978	1969	1975	1949	2000
MIN	1.88	2.35	3.53	4.32	6.48	6.76	5.52	4.57	3.41	2.93	2.87	1.74
(WY)	1942	1942	1942	1942	1931	1967	1942	1941	1986	1977	1941	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000@	
ANNUAL TOTAL	7601.6		9498.4			
ANNUAL MEAN	20.8		26.0		17.2	
HIGHEST ANNUAL MEAN					34.1	1978
LOWEST ANNUAL MEAN					7.28	1967
HIGHEST DAILY MEAN	629	Jan 24	1290	Sep 15	1670	Sep 24 1947
LOWEST DAILY MEAN	2.6	Aug 7	2.5	Jul 11	1.1	Aug 8 1977
ANNUAL SEVEN-DAY MINIMUM	2.7	Aug 7	3.2	May 11	1.2	Aug 7 1977
INSTANTANEOUS PEAK FLOW			4960	Sep 15	6300*	Sep 24 1947
INSTANTANEOUS PEAK STAGE			11.46	Sep 15	11.46	Sep 15 2000
INSTANTANEOUS LOW FLOW			2.3*	Jul 21*	.60	Jan 17 1981
ANNUAL RUNOFF (CFSM)	1.41		1.75		1.16	
ANNUAL RUNOFF (INCHES)	19.11		23.87		15.83	
10 PERCENT EXCEEDS	23		43		26	
50 PERCENT EXCEEDS	7.3		8.4		7.1	
90 PERCENT EXCEEDS	4.5		4.9		3.6	

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

02099000 EAST FORK DEEP RIVER NEAR HIGH POINT, NC--Continued



02099500 DEEP RIVER NEAR RANDLEMAN, NC

LOCATION.--Lat 35°54'06", long 79°51'05", Randolph County, Hydrologic Unit 03030003, on left bank 500 ft downstream of bridge on Secondary Road 1929, 0.2 mi downstream of Coltrane's Mill, 0.5 mi south of Guilford County line, 4.8 mi upstream from Muddy Creek, and 7 mi north of Randleman.

DRAINAGE AREA.--125 mi^2.

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

REVISED RECORDS.--WSP 782: 1929-30. WSP 1383: 1934-35, 1941. WSP 1723: 1929(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 638.11 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--No estimated daily discahrges. Records good. Diurnal fluctuation at times during periods of low flow caused by Coltranés Mill. Some regulation by Oak Hollow Reservoir (station 02098495) and High Point Lake (station 02099096). City of High Point diverted an average of 21.6 ft^3/s for municipal water supply, 19.1 ft^3/s was discharged as treated effluent into Richland Creek upstream from station and 6.0 ft^3/s into Rich Fork Creek in Pee Dee River basin. Maximum discharge for period of record from rating curve extended above 7,100 ft^3/s on basis of contracted-opening measurement of peak flow at bridge 1.5 mi upstream; maximum gage height for period of record from floodmarks. Minimum discharge for current water year occurred several days in July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	29	39	36	365	46	55	114	28	36	159	52
2	100	55	36	34	247	44	52	85	27	29	96	549
3	66	49	33	35	191	43	204	77	32	26	45	780
4	55	33	31	39	230	41	206	69	69	23	49	329
5	56	30	29	71	206	39	113	62	36	39	64	177
6	48	29	43	55	157	38	76	53	37	28	35	85
7	42	29	44	46	137	37	65	47	32	62	31	53
8	36	29	37	42	148	38	129	44	28	31	30	43
9	30	30	36	60	130	37	265	41	27	24	28	36
10	30	30	43	661	118	37	105	38	25	22	180	31
11	108	30	58	371	108	38	75	34	25	21	58	30
12	65	30	47	147	612	42	67	32	24	21	40	29
13	200	29	42	95	531	42	79	31	24	31	32	27
14	223	29	399	77	747	37	121	31	24	36	29	27
15	122	29	202	55	359	35	146	31	25	27	29	900
16	165	29	99	50	181	109	422	29	66	24	29	295
17	174	29	62	49	125	1010	186	31	31	22	27	111
18	143	30	49	53	214	233	193	31	25	21	26	64
19	49	30	44	69	207	120	135	30	23	21	28	554
20	100	30	46	113	131	219	96	28	26	21	29	236
21	123	29	89	141	99	776	82	63	26	21	27	110
22	63	31	186	76	85	276	75	81	24	21	27	468
23	54	34	97	75	99	148	63	40	24	180	27	509
24	43	32	69	99	96	110	54	34	23	325	26	276
25	37	30	58	114	93	94	75	45	22	108	26	391
26	35	99	50	117	65	90	71	47	31	76	25	392
27	33	121	48	91	54	80	88	32	27	53	25	176
28	32	59	43	72	51	96	380	30	93	38	72	93
29	31	48	40	64	49	76	516	31	213	43	46	66
30	30	42	38	346	---	66	191	30	55	34	34	52
31	29	---	37	674	---	63	---	29	---	30	43	---
TOTAL	2551	1163	2174	4027	5835	4160	4385	1400	1172	1494	1422	6941
MEAN	82.3	38.8	70.1	130	201	134	146	45.2	39.1	48.2	45.9	231
MAX	229	121	399	674	747	1010	516	114	213	325	180	900
MIN	29	29	29	34	49	35	52	28	22	21	25	27
CFSM	.66	.31	.56	1.04	1.61	1.07	1.17	.36	.31	.39	.37	1.85
IN.	.76	.35	.65	1.20	1.74	1.24	1.30	.42	.35	.44	.42	2.07

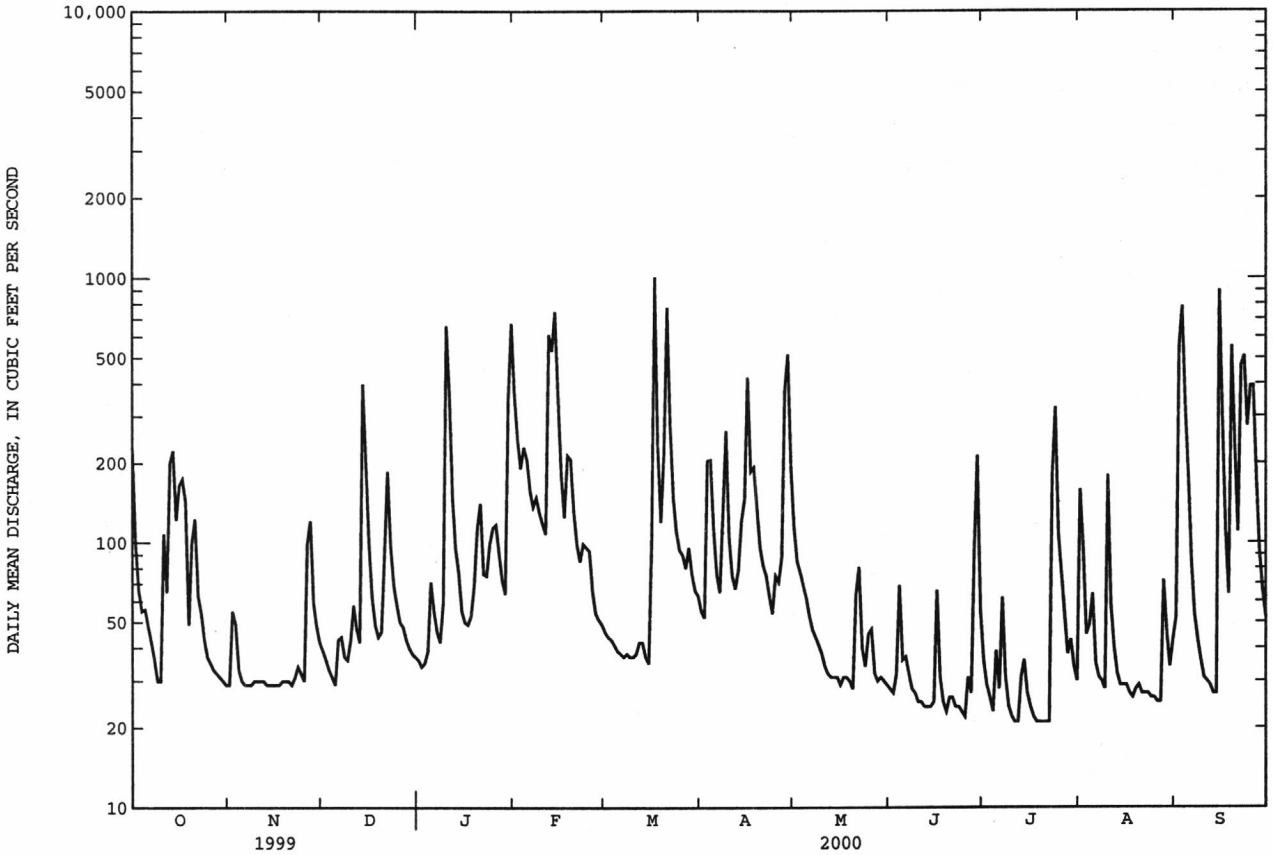
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	78.2	81.0	125	201	231	227	176	106	77.4	80.3	74.8	87.0
MAX	474	354	389	645	584	697	529	445	351	465	311	831
(WY)	1991	1986	1933	1937	1960	1975	1936	1978	1982	1975	1949	1996
MIN	5.78	9.56	16.8	15.8	38.7	54.4	27.6	23.5	16.7	17.2	17.1	10.6
(WY)	1931	1932	1934	1942	1986	1967	1985	1977	1933	1947	1945	1941

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	31069		36724			
ANNUAL MEAN	85.1		100		128	
HIGHEST ANNUAL MEAN					230	1978
LOWEST ANNUAL MEAN					45.9	1967
HIGHEST DAILY MEAN	1640	Apr 30	1010	Mar 17	12000	Sep 25 1947
LOWEST DAILY MEAN	17	Aug 9	21	Jul 11	1.2	Nov 12 1933
ANNUAL SEVEN-DAY MINIMUM	18	Aug 7	22	Jul 16	3.9	Sep 30 1930
INSTANTANEOUS PEAK FLOW			1770	Mar 17	20000*	Sep 25 1947
INSTANTANEOUS PEAK STAGE			10.34	Mar 17	32.20*	Sep 25 1947
INSTANTANEOUS LOW FLOW			21*	Jul 12	.50	Nov 28 1931
ANNUAL RUNOFF (CFSM)	.68		.80		1.03	
ANNUAL RUNOFF (INCHES)	9.25		10.93		13.93	
10 PERCENT EXCEEDS	159		216		241	
50 PERCENT EXCEEDS	42		49		52	
90 PERCENT EXCEEDS	24		27		17	

* See REMARKS.

02099500 DEEP RIVER NEAR RANDLEMAN, NC--Continued



02100500 DEEP RIVER AT RAMSEUR, NC

LOCATION.--Lat 35°43'34", long 79°39'20", Randolph County, Hydrologic Unit 03030003, on right bank 0.2 mi downstream of Main Street bridge in Ramseur, 0.5 mi downstream of mill dam, and 1.5 mi downstream of Sandy Creek.

DRAINAGE AREA.--349 mi^2.

PERIOD OF RECORD.--November 1922 to current year.

REVISED RECORDS.--WSP 1032: 1923-24, 1925(M), 1926, 1927-28(M), 1929, 1930(M), 1932-33, 1934(M), 1935, 1936-37(M), 1944(M). WSP 1383: 1923(m), 1925, 1927, 1930, 1936. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 419.50 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by Oak Hollow Reservoir (station 02098495), High Point Municipal Lake (station 02099096), and small power plant reservoirs. Prior to January 1963, diurnal fluctuation caused by power plant immediately upstream from station. Town of Asheboro diverted an average of 8.2 ft^3/s from Yadkin River Basin for water supply and discharged an average of 7.0 ft^3/s of treated effluent upstream from the station into Deep River. Maximum discharge for period of record from rating curve extended above 18,000 ft^3/s, on basis of slope-area measurement of peak flow; gage height, 34.04 ft. Minimum discharge for period of record occurred frequently in 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1901 reached a stage of 28.75 ft, from floodmarks, 0.2 mi upstream; discharge, 30,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	683	64	121	73	1330	182	151	409	80	122	78	84
2	306	67	120	116	860	140	179	285	56	68	220	1040
3	208	176	98	81	644	158	230	245	44	44	114	1260
4	163	143	47	100	781	162	455	207	107	47	76	1080
5	89	119	67	191	750	153	332	196	143	76	90	526
6	112	70	135	193	572	105	249	149	108	85	103	266
7	84	40	61	150	466	119	203	123	119	94	74	157
8	64	70	107	129	449	133	253	149	68	171	62	63
9	82	60	137	117	421	130	866	134	76	128	54	83
10	132	89	63	1500	366	135	442	119	67	55	153	78
11	241	70	136	1320	351	130	267	122	119	47	253	70
12	412	79	143	512	1080	144	232	110	89	46	83	64
13	216	71	130	326	1880	136	202	93	57	48	74	66
14	532	77	467	232	1830	134	315	92	34	e64	58	49
15	300	78	644	201	1220	128	461	90	34	e55	51	485
16	216	77	314	156	601	119	789	87	38	e42	48	627
17	255	73	195	118	432	3330	599	92	112	e36	77	225
18	286	77	166	157	536	966	513	83	86	e32	55	131
19	213	69	155	174	764	456	435	84	63	e31	44	350
20	173	71	133	216	487	357	316	84	83	e30	40	484
21	530	66	102	433	359	1320	261	76	53	27	39	229
22	329	79	292	278	292	776	223	271	72	25	32	294
23	205	86	274	220	255	467	169	269	69	26	28	966
24	120	86	187	309	267	351	171	123	63	1240	27	736
25	105	84	164	317	257	297	179	74	37	370	30	773
26	114	154	142	377	234	231	206	108	60	288	33	2790
27	127	557	125	321	206	265	198	147	66	237	36	668
28	108	271	121	256	196	357	749	95	65	116	36	315
29	68	176	96	232	189	289	2190	124	193	107	66	208
30	34	112	111	804	---	226	730	115	233	55	79	127
31	113	---	104	2470	---	262	---	120	---	57	67	---
TOTAL	6620	3311	5157	12079	18075	12158	12565	4475	2494	3869	2280	14294
MEAN	214	110	166	390	623	392	419	144	83.1	125	73.5	476
MAX	683	557	644	2470	1880	3330	2190	409	233	1240	253	2790
MIN	34	40	47	73	189	105	151	74	34	25	27	49
CFSM	.61	.32	.48	1.12	1.79	1.12	1.20	.41	.24	.36	.21	1.37
IN.	.71	.35	.55	1.29	1.93	1.30	1.34	.48	.27	.41	.24	1.52

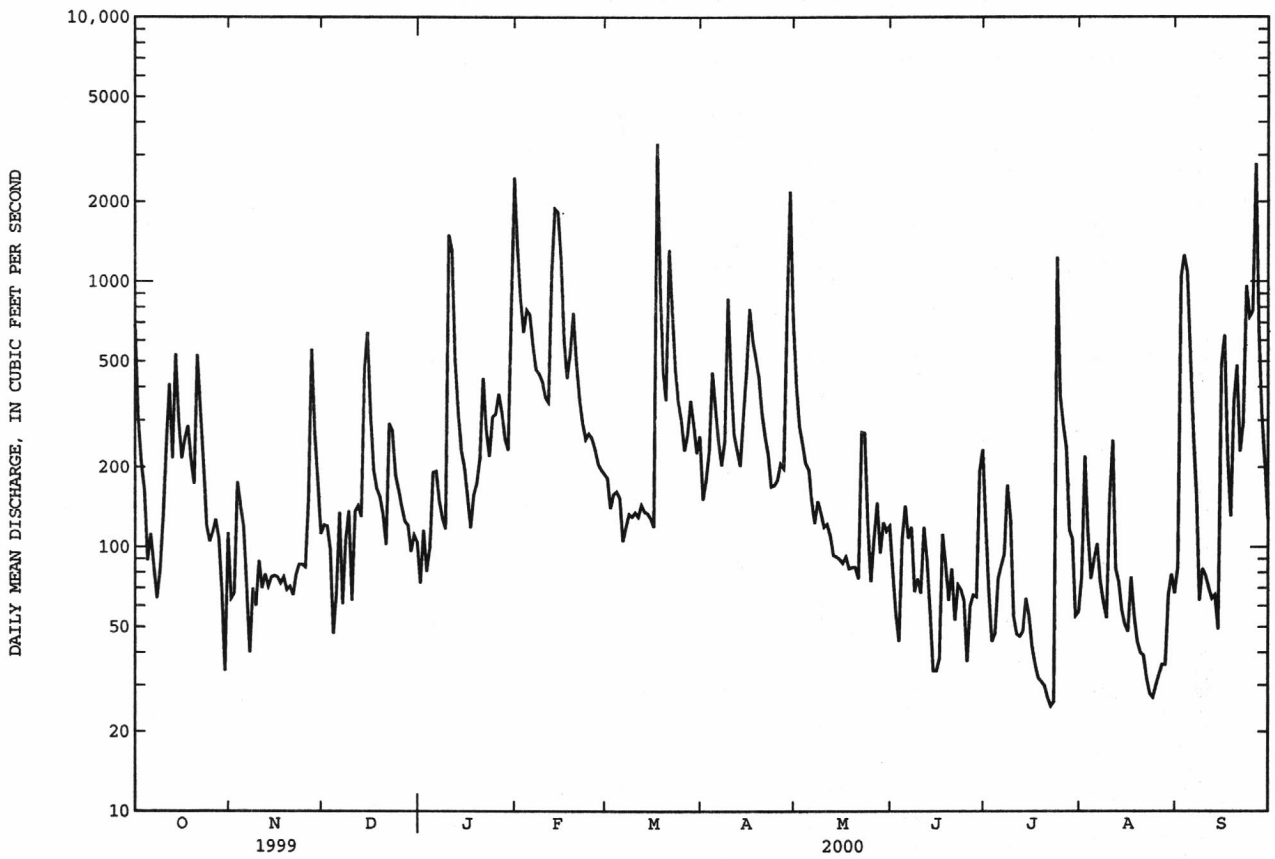
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2000, BY WATER YEAR (WY)

MEAN	209	214	343	560	660	648	496	292	212	220	205	243
MAX	1193	1237	1050	1660	1642	1842	1440	944	978	1434	896	1934
(WY)	1991	1986	1933	1937	1979	1975	1936	1978	1982	1975	1939	1928
MIN	8.69	14.1	39.1	40.8	131	144	116	71.3	48.1	36.5	32.4	17.7
(WY)	1942	1942	1934	1942	1931	1967	1967	1986	1933	1986	1956	1954

02100500 DEEP RIVER AT RAMSEUR, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1923 - 2000	
ANNUAL TOTAL	80390		97377			
ANNUAL MEAN	220		266		357	
HIGHEST ANNUAL MEAN					665	1975
LOWEST ANNUAL MEAN					155	1967
HIGHEST DAILY MEAN	5610	Jan 24	3330	Mar 17	27800	Sep 18 1945
LOWEST DAILY MEAN	21	Jun 21	25	Jul 22	.70	Nov 29 1941
ANNUAL SEVEN-DAY MINIMUM	25	Aug 7	30	Jul 17	3.6	Oct 19 1941
INSTANTANEOUS PEAK FLOW			4900	Sep 26	43000*	Sep 18 1945
INSTANTANEOUS PEAK STAGE			9.01	Sep 26	34.04*	Sep 18 1945
INSTANTANEOUS LOW FLOW			24	Jul 22	.40	May 27 1941
ANNUAL RUNOFF (CFSM)	.63		.76		1.02	
ANNUAL RUNOFF (INCHES)	8.57		10.38		13.89	
10 PERCENT EXCEEDS	454		600		686	
50 PERCENT EXCEEDS	118		136		152	
90 PERCENT EXCEEDS	35		55		37	

e Estimated.
* See REMARKS.



0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC

LOCATION.--Lat 35°48'25", long 79°31'41", Chatham County, Hydrologic Unit 03030003, on right bank at downstream side of culvert on Secondary Road 1300, and 5.5 mi west of Crutchfield Crossroads.

DRAINAGE AREA.--7.42 mi^2.

REVISIONS.--WDR NC-98-1(M).

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 620 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurred several days in Aug. 1988. Minimum discharge for current water year also occurred July 11, 12, 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	1.8	1.9	2.0	33	3.1	2.9	4.9	1.0	.53	.76	13
2	4.6	7.6	1.8	2.0	20	3.0	2.5	4.0	.94	.34	1.3	13
3	3.4	4.0	1.8	2.8	21	2.8	7.4	3.2	.78	.30	1.7	7.4
4	2.5	2.6	2.1	4.2	30	2.8	5.3	2.6	.77	.34	2.4	39
5	2.6	2.2	1.8	5.2	23	3.0	3.4	2.1	1.6	.34	1.2	12
6	2.1	2.0	2.0	3.1	14	2.6	2.8	1.9	1.8	.38	.85	4.1
7	1.6	2.0	1.8	2.4	11	2.7	2.4	1.8	1.2	.78	.60	2.9
8	1.4	2.0	1.7	2.4	9.0	2.6	24	1.7	.96	.93	.55	2.0
9	1.2	1.9	1.7	7.5	7.4	2.5	23	1.6	.86	.34	.47	1.4
10	1.5	2.0	2.3	62	7.6	2.6	6.7	1.5	.70	.26	2.3	1.1
11	8.5	2.0	2.6	18	6.6	2.4	4.7	1.6	.64	.19	1.2	.94
12	4.2	2.2	2.1	7.1	49	3.4	3.9	1.3	.61	.21	.57	.86
13	5.7	2.2	2.0	5.4	27	2.6	4.2	1.3	.56	.54	.45	.84
14	4.7	2.3	32	4.0	51	2.4	6.3	1.2	.48	.93	.43	.85
15	2.6	2.2	7.0	3.2	17	2.2	20	1.0	.51	20	.39	.81
16	2.0	3.8	4.6	2.9	8.9	2.4	29	1.1	.59	1.3	.36	.71
17	3.0	2.9	3.7	2.5	6.6	36	8.6	1.1	.55	.64	.30	.66
18	4.6	2.3	2.8	2.8	29	7.0	11	1.3	.58	.34	.36	.70
19	2.5	2.2	2.7	3.5	14	4.6	6.9	1.2	.78	.30	.42	3.1
20	13	2.3	3.0	13	7.9	14	5.1	1.0	.59	.28	.28	1.4
21	18	2.3	3.5	8.0	6.1	19	4.4	.97	.62	.24	.32	.91
22	6.0	2.3	4.8	5.0	5.4	7.7	3.6	7.2	.58	.30	.31	3.5
23	4.2	2.3	3.3	6.8	4.9	5.5	2.8	1.8	.43	1.3	.30	29
24	2.9	2.3	2.8	8.2	4.3	4.6	2.4	1.4	.35	32	.30	7.1
25	2.3	2.3	2.4	11	4.6	3.7	3.5	1.1	.33	4.3	.34	26
26	2.1	9.8	2.3	9.5	3.8	3.6	3.2	.96	.31	3.8	.30	41
27	1.9	7.9	2.3	e7.0	3.8	5.0	2.8	1.1	.31	2.6	.34	6.6
28	1.7	3.8	2.2	e6.0	4.0	9.7	24	1.1	1.3	1.5	.47	3.7
29	1.7	2.6	2.1	e5.4	3.4	5.0	24	2.0	3.1	.99	.65	2.2
30	3.2	2.2	2.3	49	---	3.9	7.4	1.4	.85	.72	.42	2.4
31	2.4	---	2.0	63	---	3.3	---	1.2	---	.63	.99	---
TOTAL	126.2	90.3	111.4	334.9	433.3	175.7	258.2	57.63	24.68	77.65	21.63	229.18
MEAN	4.07	3.01	3.59	10.8	14.9	5.67	8.61	1.86	.82	2.50	.70	7.64
MAX	18	9.8	32	63	51	36	29	7.2	3.1	32	2.4	41
MIN	1.2	1.8	1.7	2.0	3.4	2.2	2.4	.96	.31	.19	.28	.66

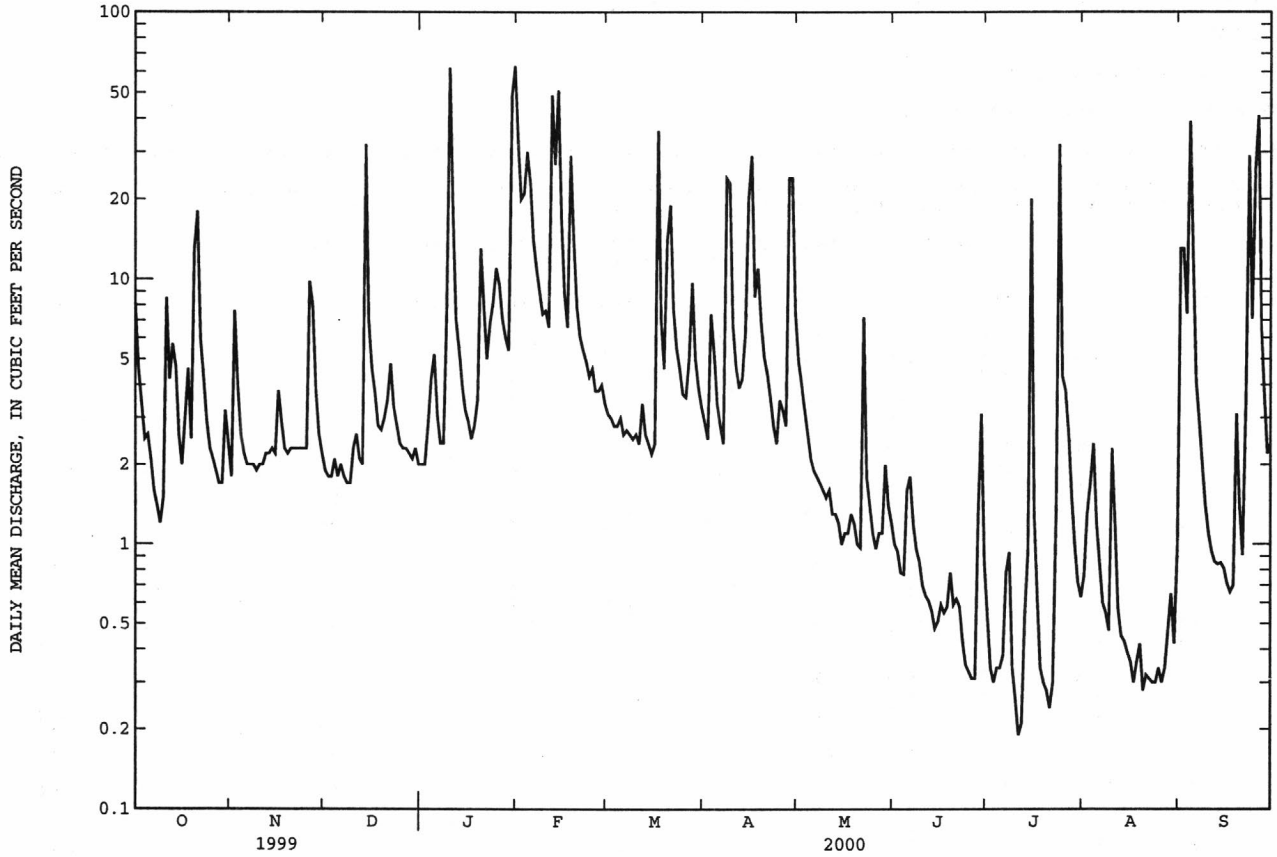
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	5.85	5.25	5.14	14.7	14.2	16.9	9.78	5.49	3.84	3.52	1.71	5.36
MAX	17.1	18.2	10.6	37.3	32.9	42.4	22.0	19.2	20.5	14.8	8.61	23.7
(WY)	1990	1996	1990	1998	1998	1998	1997	1990	1995	1989	1994	1996
MIN	.28	.42	1.29	2.33	4.63	4.86	1.94	1.58	.44	.45	.33	.26
(WY)	1999	1999	1995	1989	1999	1999	1995	1988	1988	1998	1998	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	1881.88		1940.77			
ANNUAL MEAN	5.16		5.30		7.69	
HIGHEST ANNUAL MEAN					12.8	1998
LOWEST ANNUAL MEAN					4.26	1992
HIGHEST DAILY MEAN	199	Jan 24	63	Jan 31	531	Sep 6 1996
LOWEST DAILY MEAN	.05	Aug 12	.19	Jul 11	.00	Aug 20 1988
ANNUAL SEVEN-DAY MINIMUM	.06	Aug 7	.31	Aug 20	.02	Aug 17 1988
INSTANTANEOUS PEAK FLOW			201	Sep 4	1670	Sep 6 1996
INSTANTANEOUS PEAK STAGE			4.85	Sep 4	11.91	Sep 6 1996
INSTANTANEOUS LOW FLOW			.14*	Jul 10	.00*	Aug 19 1988
10 PERCENT EXCEEDS	7.3		13		14	
50 PERCENT EXCEEDS	2.1		2.4		2.3	
90 PERCENT EXCEEDS	.16		.47		.34	

e Estimated.
* See REMARKS.

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC--Continued



02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC

LOCATION.--Lat 35°39'37", long 79°24'08", Chatham County, Hydrologic Unit 03030003, on right bank 200 ft upstream from bridge on U.S. Highway 421, 1.5 mi east of Mount Vernon Springs, and 4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi^2

PERIOD OF RECORD.--June 1958 to September 1981, January 1994 to current year.

GAGE.--Water-stage recorder and v-notch sharp-crested weir. Elevation of gage is 455 ft above sea level, by barometer. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair except those below 1 ft^3/s, which are poor. Maximum discharge for period of record from rating curve extended above 2,200 ft^3/s, on basis of contracted-opening measurement of peak flow. No flow occurs at times most years. Minimum discharge for the current water year also occurred Aug. 24-31, Sept. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	2.8	5.0	4.1	57	7.8	7.3	5.6	1.2	.53	.32	.00
2	11	5.1	4.6	4.7	39	7.4	6.9	4.8	.93	.33	1.2	.00
3	7.6	6.0	4.3	5.1	40	6.9	7.7	4.4	.87	.07	1.0	.01
4	6.0	3.7	4.0	6.2	53	7.0	7.5	4.1	4.1	.05	.62	.77
5	5.4	3.7	3.9	7.1	48	7.3	6.4	3.7	2.6	.07	.35	2.2
6	4.3	3.8	4.4	6.3	33	6.4	5.6	3.4	2.7	.10	.19	1.1
7	3.5	3.3	4.2	6.3	26	6.0	5.1	3.1	1.8	.16	.10	.65
8	3.0	3.5	4.0	5.9	23	5.7	11	2.7	1.1	.29	.06	.40
9	2.6	3.8	3.7	13	19	5.7	25	2.5	.82	.49	.03	.26
10	3.4	4.2	4.1	104	17	5.4	10	2.3	.63	.32	.03	.15
11	18	4.1	4.9	37	15	5.4	7.6	2.0	.44	.22	.02	.08
12	11	5.5	4.4	17	90	5.7	6.3	1.9	.35	.22	.02	.05
13	13	5.4	4.1	12	56	4.9	6.5	1.8	.29	.26	.01	.04
14	14	4.9	33	9.5	95	4.6	8.7	1.5	.23	.19	.01	.04
15	6.8	4.8	15	7.7	37	4.4	22	1.3	.21	.17	.01	.03
16	5.0	4.6	8.4	7.2	22	9.3	31	1.1	.21	.11	.01	.02
17	25	4.4	6.3	6.8	16	16	14	1.1	.17	.04	.01	.02
18	37	4.4	5.3	6.9	45	7.0	109	1.1	.13	.03	.01	.01
19	11	4.4	5.1	7.4	28	5.8	26	1.0	.12	.02	.01	.02
20	10	4.5	6.4	23	18	21	14	.90	.11	.02	.01	.01
21	33	4.6	7.4	22	14	34	11	.87	.09	.01	.01	.01
22	13	5.0	9.7	12	12	15	8.0	8.1	.09	.01	.01	.01
23	8.2	4.9	7.1	14	11	11	6.8	3.8	.08	.02	.00	13
24	5.7	4.8	6.0	21	10	9.1	6.0	2.3	.06	.21	.00	5.7
25	4.7	4.8	5.3	25	9.5	8.0	6.3	1.6	.06	.07	.00	4.2
26	4.2	77	4.8	23	8.9	7.2	6.4	1.3	.18	.18	.00	14
27	3.8	33	4.8	18	8.7	14	6.2	1.1	.26	.27	.00	3.0
28	3.3	12	4.7	14	11	32	8.9	1.2	.37	.23	.00	1.5
29	3.0	7.7	4.3	13	8.4	13	13	2.5	.55	.11	.00	.94
30	2.8	6.0	4.1	103	---	10	7.4	2.1	.63	.06	.00	.41
31	2.8	---	4.2	126	---	8.4	---	1.4	---	.05	.00	---
TOTAL	307.1	246.7	197.5	688.2	870.5	311.4	417.6	76.57	21.38	4.91	4.04	48.63
MEAN	9.91	8.22	6.37	22.2	30.0	10.0	13.9	2.47	.71	.16	.13	1.62
MAX	37	77	33	126	95	34	109	8.1	4.1	.53	1.2	14
MIN	2.6	2.8	3.7	4.1	8.4	4.4	5.1	.87	.06	.01	.00	.00
CFSM	.64	.53	.41	1.43	1.94	.65	.90	.16	.05	.01	.01	.10
IN.	.74	.59	.47	1.65	2.09	.75	1.00	.18	.05	.01	.01	.12

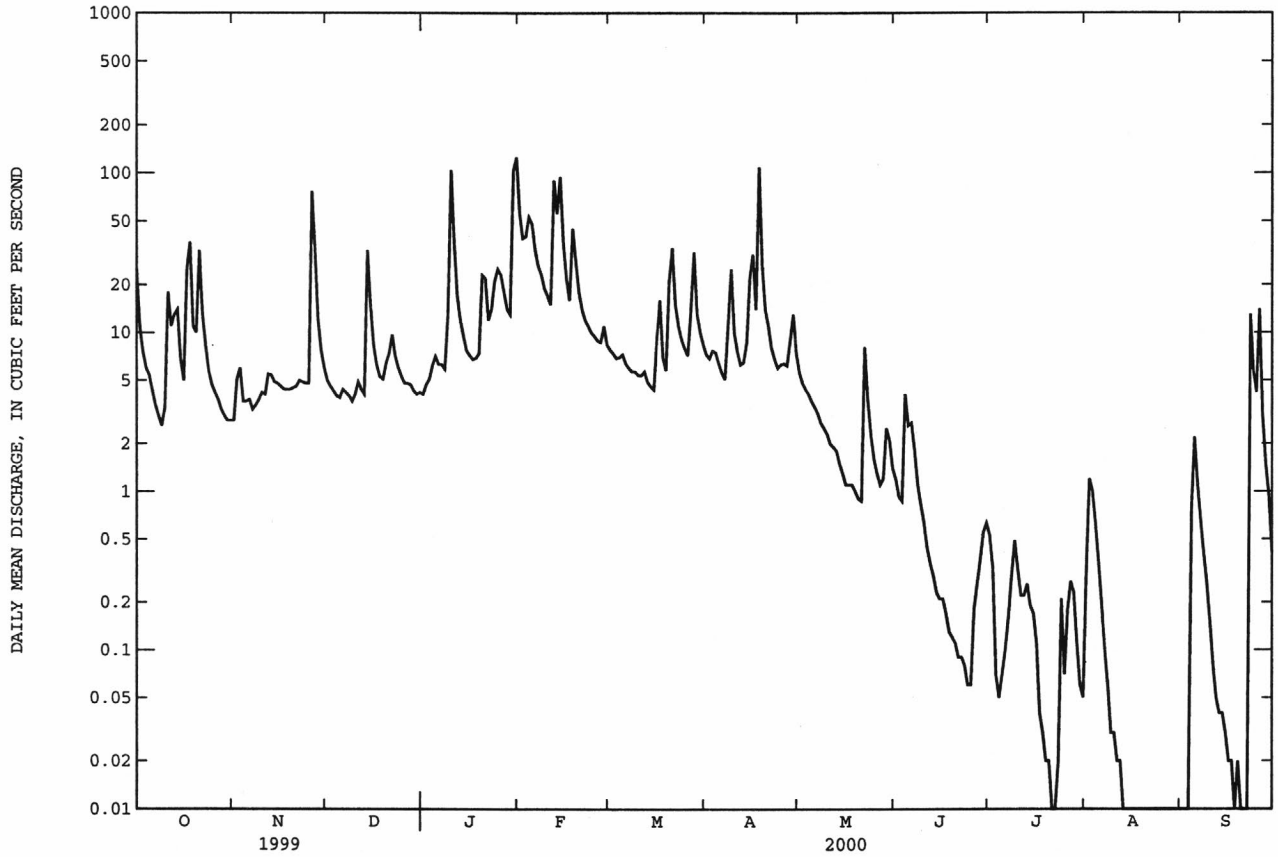
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000@, BY WATER YEAR (WY)

MEAN	7.84	7.00	11.3	27.3	33.5	30.4	18.0	9.20	7.59	8.16	7.23	7.63
MAX	56.6	33.0	53.4	80.4	81.0	74.8	48.3	39.1	48.0	66.6	55.3	75.2
(WY)	1972	1980	1973	1978	1960	1998	1960	1978	1973	1975	1964	1996
MIN	.003	.16	.79	1.27	5.18	4.80	2.45	1.59	.16	.098	.003	.000
(WY)	1964	1974	1961	1981	1968	1981	1981	1981	1999	1966	1977	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000@	
ANNUAL TOTAL	4431.05		3194.53			
ANNUAL MEAN	12.1		8.73		14.7	
HIGHEST ANNUAL MEAN					26.5	1973
LOWEST ANNUAL MEAN					3.84	1981
HIGHEST DAILY MEAN	433	Sep 30	126	Jan 31	1570	Sep 6 1996
LOWEST DAILY MEAN	.00	Aug 7	.00	Aug 23	.00	Sep 2 1962
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 7	.00	Aug 23	.00	Sep 2 1962
INSTANTANEOUS PEAK FLOW			312	Jan 30	4010*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			4.52	Jan 30	13.41	Sep 6 1996
INSTANTANEOUS LOW FLOW			.00*	Aug 23	.00*	Sep 2 1962
ANNUAL RUNOFF (CFSM)	.78		.56		.95	
ANNUAL RUNOFF (INCHES)	10.63		7.67		12.90	
10 PERCENT EXCEEDS	15		22		26	
50 PERCENT EXCEEDS	4.0		4.4		3.8	
90 PERCENT EXCEEDS	.07		.03		.13	

@ See PERIOD OF RECORD.
* See REMARKS.

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC--Continued



02102000 DEEP RIVER AT MONCURE, NC

LOCATION.--Lat 35°37'38", long 79°06'58", Lee County, Hydrologic Unit 03030003, on right bank 1.0 mi upstream from Lockville Dam, 1.2 mi upstream from bridge on U.S. Highway 1, 1.5 mi northwest of Moncure, 2.2 mi downstream of Rocky River, and 4.5 mi upstream from confluence with Haw River.

DRAINAGE AREA.--1,434 mi^2.

PERIOD OF RECORD.--July 1930 to current year. Records for May 1898 to December 1899 published in 21st Annual Report, Part 4, and in Bulletins 34 and 39 of North Carolina Department of Conservation and Development have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: (1930-46 not previously published). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 185.06 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair. Diurnal fluctuation and some regulation at low flow caused by small power plants upstream from station. Maximum discharge, 14,200 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 30, 1999. Minimum discharge for current water year also occurred Aug. 31, Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13300	331	742	445	11000	1170	933	2260	317	99	326	56
2	5760	340	592	422	6830	994	872	1400	235	377	366	56
3	1720	449	454	423	4630	919	771	1050	301	168	386	206
4	1040	623	473	464	4590	864	677	872	252	230	512	1770
5	808	578	479	520	4900	822	969	792	209	128	439	2580
6	656	494	396	637	4210	882	1060	650	301	97	202	1520
7	499	366	346	723	3290	827	857	626	245	88	119	675
8	426	316	398	599	2790	706	771	548	296	95	199	359
9	414	343	433	638	2510	675	1640	467	278	301	111	238
10	305	282	336	4180	2250	676	2570	473	281	224	149	154
11	372	319	441	9850	1990	682	1720	499	150	330	108	113
12	2110	280	452	5220	2430	594	1180	425	180	172	90	107
13	2040	319	357	2350	8460	656	901	360	261	285	224	105
14	2300	254	1580	1520	8490	597	875	413	147	134	124	102
15	1980	301	3410	1130	7810	645	1110	270	282	202	180	100
16	1230	298	2410	910	4690	532	3080	377	164	140	108	96
17	940	295	1400	807	2740	1090	3700	239	156	145	85	411
18	3380	283	966	775	2750	3630	6150	322	126	263	74	439
19	2670	270	787	675	4090	2350	4910	178	105	147	69	258
20	1470	260	742	1000	3300	1370	2680	308	198	120	64	159
21	2110	267	903	2570	2290	2690	1720	196	138	92	112	310
22	3260	277	899	2190	1780	2890	1290	274	167	79	109	388
23	1910	279	944	1570	1480	2290	1060	545	132	75	93	381
24	1120	289	1080	2320	1290	1530	908	693	144	76	83	1420
25	798	314	879	3020	1200	1210	798	593	127	284	77	1800
26	606	660	737	2980	1150	1020	735	350	110	1010	71	1430
27	443	4260	577	2620	1160	951	835	280	236	449	67	3170
28	537	3110	656	2090	1660	2040	876	263	134	321	63	1470
29	454	1700	541	1670	1400	2100	1690	221	107	273	61	676
30	414	986	504	2430	---	1510	3880	353	102	253	57	360
31	293	---	462	11000	---	1080	---	300	---	140	56	---
TOTAL	55365	19143	25376	67748	107160	39992	51218	16597	5881	6797	4784	20909
MEAN	1786	638	819	2185	3695	1290	1707	535	196	219	154	697
MAX	13300	4260	3410	11000	11000	3630	6150	2260	317	1010	512	3170
MIN	293	254	336	422	1150	532	677	178	102	75	56	56
CFSM	1.25	.44	.57	1.52	2.58	.90	1.19	.37	.14	.15	.11	.49
IN.	1.44	.50	.66	1.76	2.78	1.04	1.33	.43	.15	.18	.12	.54

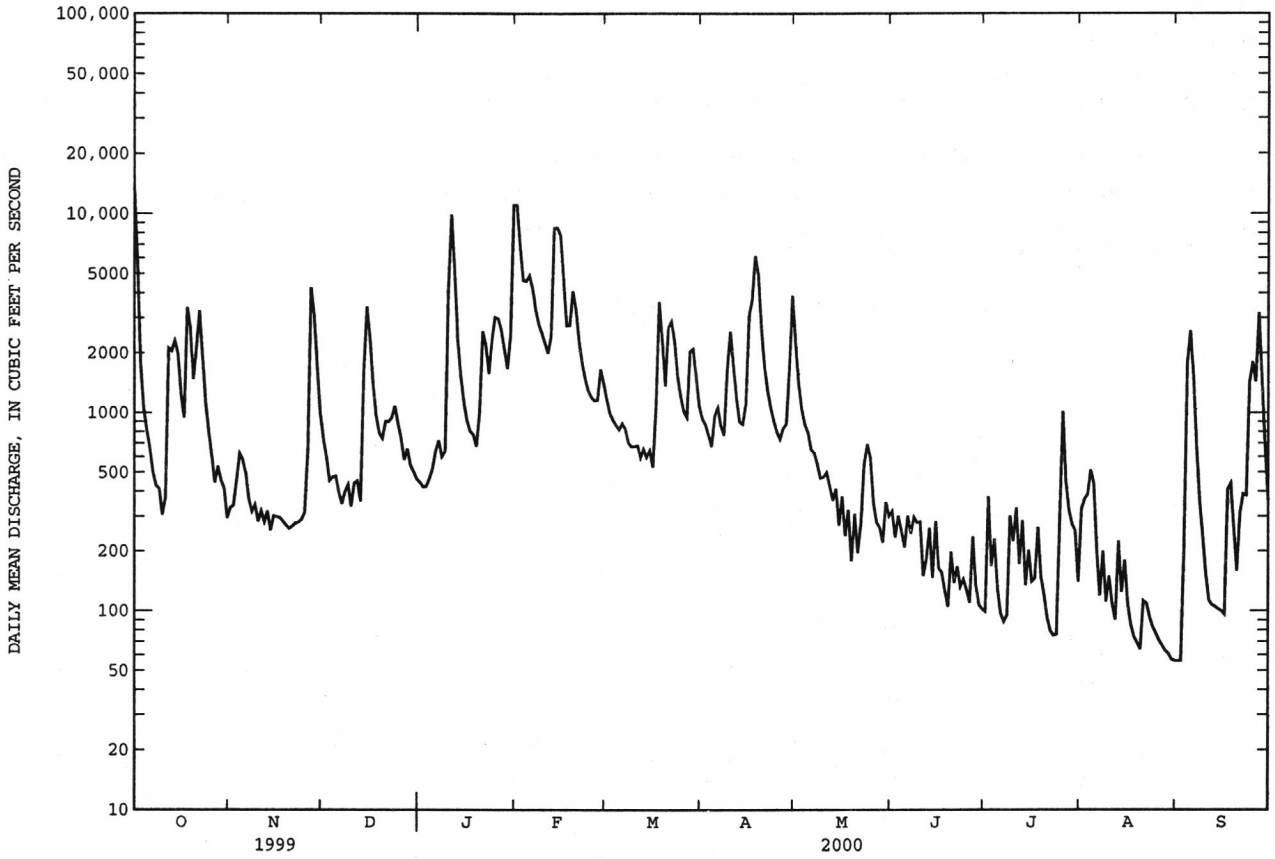
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

MEAN	741	842	1310	2444	2908	2876	2061	1123	782	846	814	818
MAX	3590	4789	4765	7182	7945	7582	6455	3590	4147	5528	3861	10580
(WY)	1965	1986	1973	1978	1960	1998	1936	1989	1982	1975	1931	1945
MIN	28.2	14.1	34.6	130	424	566	393	193	135	79.7	75.2	24.1
(WY)	1931	1942	1934	1934	1931	1981	1981	1981	1977	1986	1980	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000	
ANNUAL TOTAL	439378		420970			
ANNUAL MEAN	1204		1150		1458	
HIGHEST ANNUAL MEAN					2711	1984
LOWEST ANNUAL MEAN					606	1988
HIGHEST DAILY MEAN	18300	Sep 6	13300	Oct 1	66400	Sep 18 1945
LOWEST DAILY MEAN	77	Aug 14	56	Aug 31	6.0	Oct 9 1954
ANNUAL SEVEN-DAY MINIMUM	89	Aug 8	59	Aug 27	6.6	Oct 8 1954
INSTANTANEOUS PEAK FLOW			12000*	Feb 1	80300	Sep 18 1945
INSTANTANEOUS PEAK STAGE			6.69*	Feb 1	17.20	Sep 18 1945
INSTANTANEOUS LOW FLOW			56*	Aug 30	5.5	Oct 10 1954
ANNUAL RUNOFF (CFSM)	.84		.80		1.02	
ANNUAL RUNOFF (INCHES)	11.40		10.92		13.82	
10 PERCENT EXCEEDS	2430		2740		3320	
50 PERCENT EXCEEDS	479		539		539	
90 PERCENT EXCEEDS	132		111		100	

* See REMARKS.

02102000 DEEP RIVER AT MONCURE, NC--Continued



0210215985 CAPE FEAR RIVER AT STATE HIGHWAY 42 NEAR BRICKHAVEN, NC

LOCATION.--Lat 35°32'54", long 79°01'34", Chatham County, Hydrologic Unit 03030004, at bridge on State Highway 42, and 1.8 mi south of Brickhaven.

DRAINAGE AREA.--3,160 mi^2.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Daily mean discharge values were obtained from the U.S. Army Corps of Engineers reservoir releases from the B. Everett Jordan Lake at the 2400 hour and the daily mean discharge value from Deep River near Moncure (station 02102000). The values from these two sites were added together and entered as a daily mean discharge for each date and time that a water-quality sample was collected.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV										
05...	1030	1170	768	79	8.1	6.7	102	14.5	28	6.68
JAN										
07...	1030	1310	758	96	11.2	7.2	137	8.4	28	6.77
MAR										
03...	0830	3730	754	98	10.9	6.9	116	10.1	27	6.47
APR										
28...	1030	3450	754	93	9.1	6.6	120	16.0	28	6.56
JUN										
23...	1030	583	755	121	9.2	8.4	176	29.4	32	7.38
SEP										
19...	1145	1410	750	76	6.4	6.7	161	22.7	32	7.50

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV										
05...	2.65	2.9	.9	10.4	42	26	32	9.3	<.1	10.9
JAN										
07...	2.76	3.0	1	12.3	46	30	37	11.6	<.1	10.5
MAR										
03...	2.60	2.2	.9	11.2	45	24	28	10.5	.1	8.2
APR										
28...	2.79	2.4	.9	10.5	42	--	--	10.5	<.1	9.5
JUN										
23...	3.22	3.5	1	18.7	53	19	22	16.9	.2	4.8
SEP										
19...	3.12	4.4	1	15.6	48	--	--	12.4	.2	8.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV										
05...	9.1	.47	.003	.98	.516	.003	.47	.105	.182	12
JAN										
07...	13.2	.63	.027	1.3	.683	.006	.61	.055	.115	6.5
MAR										
03...	10.3	.55	.041	1.0	.488	.007	.51	.020	.069	7.7
APR										
28...	10.5	.54	.072	1.1	.521	.009	.47	.049	.099	--
JUN										
23...	16.4	<.10	.011	--	.033	.003	--	.003	<.050	9.1
SEP										
19...	13.6	.88	.059	1.7	.822	.012	.82	.269	.378	9.4

0210215985 CAPE FEAR RIVER AT STATE HIGHWAY 42 NEAR BRICKHAVEN, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COLOR (PLAT-INUM-COBALT UNITS) (00080)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
NOV										
05...	65	83	199	<3	<.1	<1	<2	2	720	E1
JAN										
07...	55	95	--	--	--	--	--	--	--	--
MAR										
03...	60	85	--	--	--	--	--	--	--	--
APR										
28...	55	89	240	<3	<.1	E1	<2	2	760	E1
JUN										
23...	55	112	--	--	--	--	--	--	--	--
SEP										
19...	60	105	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV									
05...	74	<.3	1	<2	<3	<1	<31	12	37
JAN									
07...	--	--	--	--	--	--	--	8	29
MAR									
03...	--	--	--	--	--	--	--	11	115
APR									
28...	104	<.3	1	<2	<3	<1	E19	14	131
JUN									
23...	--	--	--	--	--	--	--	4	7.1
SEP									
19...	--	--	--	--	--	--	--	11	41

02102192 BUCKHORN CREEK NEAR CORINTH, NC

LOCATION.--Lat 35°33'34", long 78°58'25", Chatham County, Hydrologic Unit 03030004, on left bank at upstream side of bridge on State Highway 42, 0.2 mi downstream of White Oak Creek, 1.2 mi downstream of Harris Lake, and 2 mi east of Corinth.

DRAINAGE AREA.--76.3 mi^2.

PERIOD OF RECORD.--June 1972 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 154.63 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since Dec. 1, 1980, considerable regulation by Harris Lake (station 02102190). Maximum discharge prior to regulation: 6,920 ft^3/s, Feb. 2, 1973; gage height: 20.02 ft. Minimum discharge prior to regulation: 0.01 ft^3/s, Sept. 2, 1976. Minimum discharge for the current water year also occurred Aug. 25, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e500	54	23	31	314	112	38	30	.93	2.7	9.2	2.3
2	e200	54	19	29	302	105	35	27	.68	2.0	25	1.9
3	e170	51	17	28	286	94	33	27	3.8	1.6	32	5.5
4	e140	43	15	28	287	87	31	24	11	1.5	21	11
5	e120	38	14	34	284	81	29	22	5.2	1.6	26	18
6	e100	34	18	30	267	73	25	21	5.5	1.9	22	14
7	e90	31	17	29	245	67	24	19	4.7	2.1	19	9.4
8	e80	29	13	27	228	61	24	17	3.8	2.1	17	6.8
9	e70	26	12	30	209	56	33	15	5.2	2.1	14	5.8
10	86	24	12	225	191	52	29	13	4.1	1.8	14	4.8
11	88	23	14	228	175	47	27	13	3.9	1.7	12	3.8
12	82	23	13	209	211	49	26	11	3.7	6.3	10	2.8
13	76	20	12	191	252	44	27	11	3.9	3.6	7.3	1.9
14	74	18	93	173	270	41	27	10	6.5	3.4	5.2	1.6
15	67	18	102	151	267	38	e27	8.8	8.7	2.6	3.5	2.6
16	65	16	96	135	239	39	e28	5.5	4.7	2.1	2.1	1.7
17	142	13	89	126	220	49	e28	4.4	4.1	1.9	1.8	.76
18	211	11	81	115	235	44	45	3.3	4.0	1.6	1.1	1.2
19	164	10	81	105	235	40	44	2.3	58	1.3	1.8	2.1
20	202	9.8	80	115	216	44	39	2.0	74	1.7	1.2	1.5
21	275	10	76	116	196	54	37	2.1	9.1	1.7	.81	1.1
22	232	18	75	107	177	54	36	7.6	6.8	1.5	.68	1.2
23	199	15	69	110	161	50	31	3.9	6.5	1.6	.65	7.9
24	164	14	64	127	145	45	29	2.8	4.6	9.7	.79	4.5
25	136	14	58	192	133	43	32	2.5	3.3	5.5	.57	12
26	116	27	50	189	121	41	28	1.7	2.5	6.8	.70	25
27	100	36	46	179	114	40	29	1.4	2.3	4.0	1.1	15
28	86	30	43	168	133	48	31	1.9	2.0	2.8	1.9	12
29	74	28	39	157	123	45	35	5.5	3.9	4.0	1.1	11
30	65	28	36	198	---	43	33	4.8	4.3	3.1	2.8	9.1
31	58	---	34	305	---	41	---	1.6	---	3.5	3.7	---
TOTAL	4232	765.8	1411	3887	6236	1727	940	322.1	261.71	89.8	260.00	198.26
MEAN	137	25.5	45.5	125	215	55.7	31.3	10.4	8.72	2.90	8.39	6.61
MAX	500	54	102	305	314	112	45	30	74	9.7	32	25
MIN	58	9.8	12	27	114	38	24	1.4	.68	1.3	.57	.76
CFSM	1.79	.33	.60	1.64	2.82	.73	.41	.14	.11	.04	.11	.09
IN.	2.06	.37	.69	1.90	3.04	.84	.46	.16	.13	.04	.13	.10

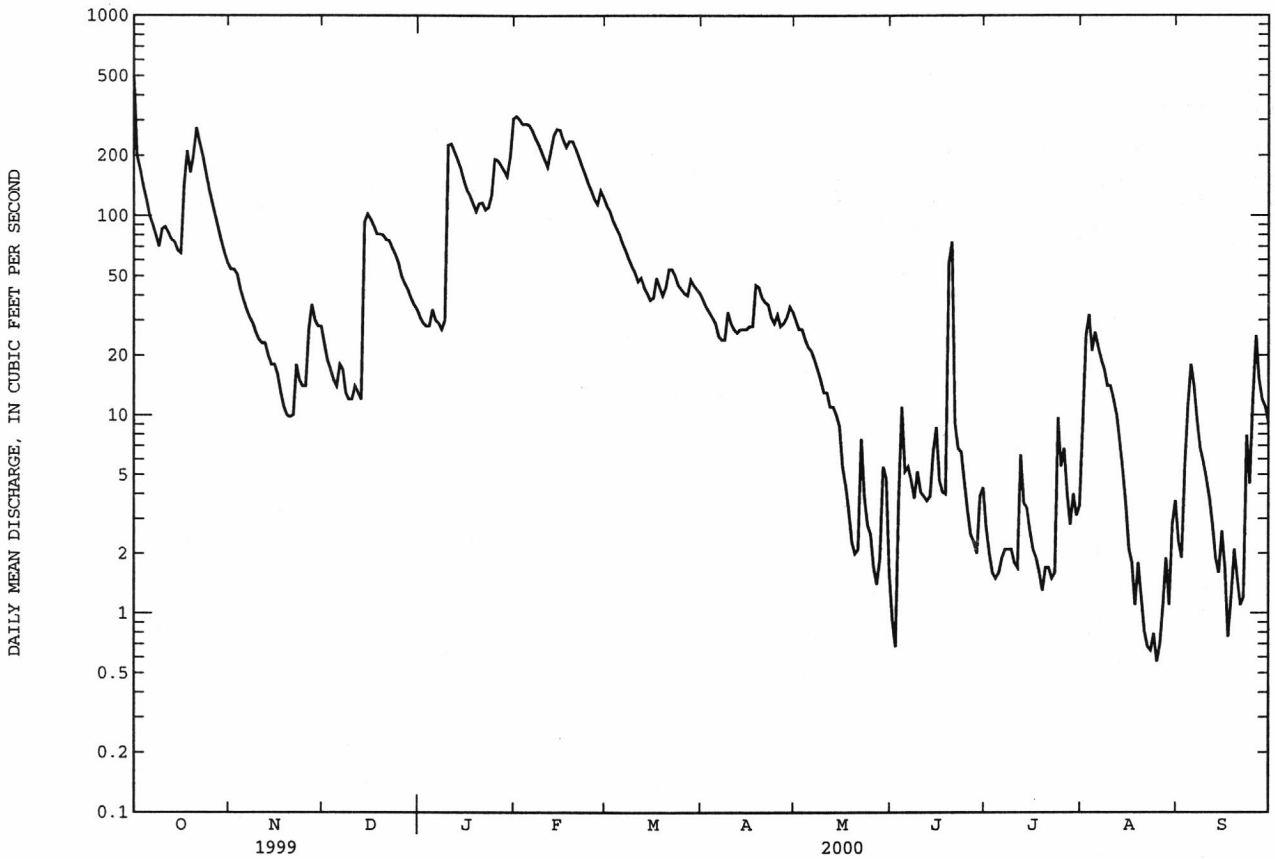
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000@, BY WATER YEAR (WY)

MEAN	22.5	24.2	33.7	70.1	107	134	86.8	42.5	24.4	19.4	17.3	30.3
MAX	137	146	143	241	348	421	312	184	138	102	199	335
(WY)	2000	1996	1984	1984	1998	1998	1993	1989	1984	1989	1986	1996
MIN	.70	.81	1.40	2.48	1.37	1.66	1.13	1.56	.67	.34	.65	.88
(WY)	1982	1992	1992	1992	1992	1992	1992	1992	1981	1981	1998	1981

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1981 - 2000@	
ANNUAL TOTAL	14033.13		20330.67			
ANNUAL MEAN	38.4		55.5		50.7	
HIGHEST ANNUAL MEAN					126	1984
LOWEST ANNUAL MEAN					2.47	1981
HIGHEST DAILY MEAN	913	Sep 30	500	Oct 1	1940	Sep 6 1996
LOWEST DAILY MEAN	.08	Aug 7	.57	Aug 25	.08	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	.10	Aug 2	.76	Aug 21	.10	Aug 2 1999
INSTANTANEOUS PEAK FLOW			941	Jun 19	4300	Sep 6 1996
INSTANTANEOUS PEAK STAGE			7.33	Jun 19	16.79	Sep 6 1996
INSTANTANEOUS LOW FLOW			.53*	Aug 24	.05	May 10 1988
ANNUAL RUNOFF (CFSM)	.50		.73		.66	
ANNUAL RUNOFF (INCHES)	6.84		9.91		9.03	
10 PERCENT EXCEEDS	89		178		154	
50 PERCENT EXCEEDS	6.8		27		8.2	
90 PERCENT EXCEEDS	.67		1.9		.70	

e Estimated.
@ Regulated period only (1981-2000). See REMARKS.
* See REMARKS.

02102192 BUCKHORN CREEK NEAR CORINTH, NC--Continued



02102500 CAPE FEAR RIVER AT LILLINGTON, NC

LOCATION.--Lat 35°24'22", long 78°48'48", Harnett County, Hydrologic Unit 03030004, on right bank 60 ft downstream of downstream bridge on U.S. Highway 401, 1,860 ft downstream of Southern Railway bridge, 0.5 mi north of Lillington, 1 mile downstream of Neal Creek, and at mile 178.

DRAINAGE AREA.--3,464 mi^2.

PERIOD OF RECORD.--December 1923 to current year.

REVISED RECORDS.--WSP 1002: 1930(M). WSP 1032: 1942(m). WSP 1303: 1944(M). WSP 1333: 1945. WSP 1383:

GAGE.--Water-stage recorder. Datum of gage is 104.62 ft above sea level. Dec. 6, 1923, to Oct. 7, 1927, nonrecording gage and Oct. 8, 1927, to Dec. 2, 1975, water-stage recorder at site 60 ft upstream in bridge pier at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation at high flows, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since Sept. 1981 by B. Everett Jordan Lake (station 02098197). Diurnal fluctuation and slight regulation at low flow caused by power plants upstream from station. Fluctuation and regulation by Buckhorn Reservoir, 13 mi upstream from station, ended in December 1962. Prior to regulation, maximum discharge: 150,000 ft^3/s, Sept. 19, 1945, from rating curve extended above 76,000 ft^3/s; gage height: 33.19 ft, from floodmark; minimum discharge: 11 ft^3/s, Oct. 14, 15, 1954; gage height: -0.17 ft. Maximum discharge for current water year 18,300 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 30, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15500	694	3490	1610	13800	4040	3520	5110	668	977	1170	697
2	10500	799	3580	1550	10500	3810	3160	5790	635	1010	1660	693
3	6830	946	3440	1570	8240	3670	1990	5250	609	1110	1970	774
4	6590	933	1090	1610	7960	3590	1890	3620	685	1000	1480	1630
5	12600	1070	908	1710	8300	3510	1890	1680	643	998	1690	3320
6	12400	1430	939	1660	7770	3510	2140	1230	631	919	1400	2660
7	12100	1330	851	1320	6670	3490	2000	1150	623	928	1160	2160
8	11100	1220	1640	1290	5950	3360	1340	1130	637	678	1690	3590
9	8710	1240	1930	1220	5550	3310	1680	883	622	629	1660	3390
10	5720	1160	1690	3730	5210	3270	2840	867	618	710	1610	3240
11	2890	1190	883	12200	4910	3260	2920	768	596	742	1620	3150
12	2050	1130	886	9250	5340	3280	2240	623	528	901	1510	2740
13	3170	829	880	5870	10900	3180	1970	489	575	799	1510	1560
14	5080	737	1830	4560	10900	3090	2110	430	616	759	1560	1330
15	4490	760	4300	4030	11200	3140	3170	490	606	677	1460	877
16	1790	778	4610	3750	8990	3250	4330	415	612	689	955	727
17	1890	777	4210	3620	6220	3610	e5820	531	537	641	736	783
18	5360	778	3670	3550	5800	4790	e8250	464	543	681	634	1280
19	4270	764	3440	3500	7460	4770	e5820	510	520	687	473	1040
20	3860	780	3440	3290	6830	3930	e4790	501	906	639	594	1860
21	2920	783	2980	3620	5550	5120	e4650	598	675	595	621	1960
22	4320	818	1500	3710	4790	5560	6280	687	547	595	700	2030
23	4630	796	1460	e3130	4440	5200	5950	776	601	534	665	2390
24	3470	816	1500	3650	4190	3850	5710	884	529	1010	548	1850
25	3540	826	1460	5120	4060	3540	5170	938	500	896	533	2980
26	4160	890	1270	5030	3990	3700	2980	847	475	1580	618	3150
27	2650	4020	1190	4350	3920	3590	2940	634	542	2630	618	3840
28	2610	4280	1090	3700	4600	4390	2990	613	630	3690	641	3170
29	1500	3570	1090	3210	4410	4850	3370	656	698	7500	624	2890
30	882	3760	1040	e3370	---	4200	5520	648	1050	7300	648	3810
31	793	---	1590	11800	---	3780	---	657	---	4950	722	---
TOTAL	168375	39904	63877	121580	198450	119640	109430	39869	18657	47454	33480	65571
MEAN	5431	1330	2061	3922	6843	3859	3648	1286	622	1531	1080	2186
MAX	15500	4280	4610	12200	13800	5560	8250	5790	1050	7500	1970	3840
MIN	793	694	851	1220	3920	3090	1340	415	475	534	473	693
CFSM	1.57	.38	.59	1.13	1.98	1.11	1.05	.37	.18	.44	.31	.63
IN.	1.81	.43	.69	1.31	2.13	1.28	1.18	.43	.20	.51	.36	.70

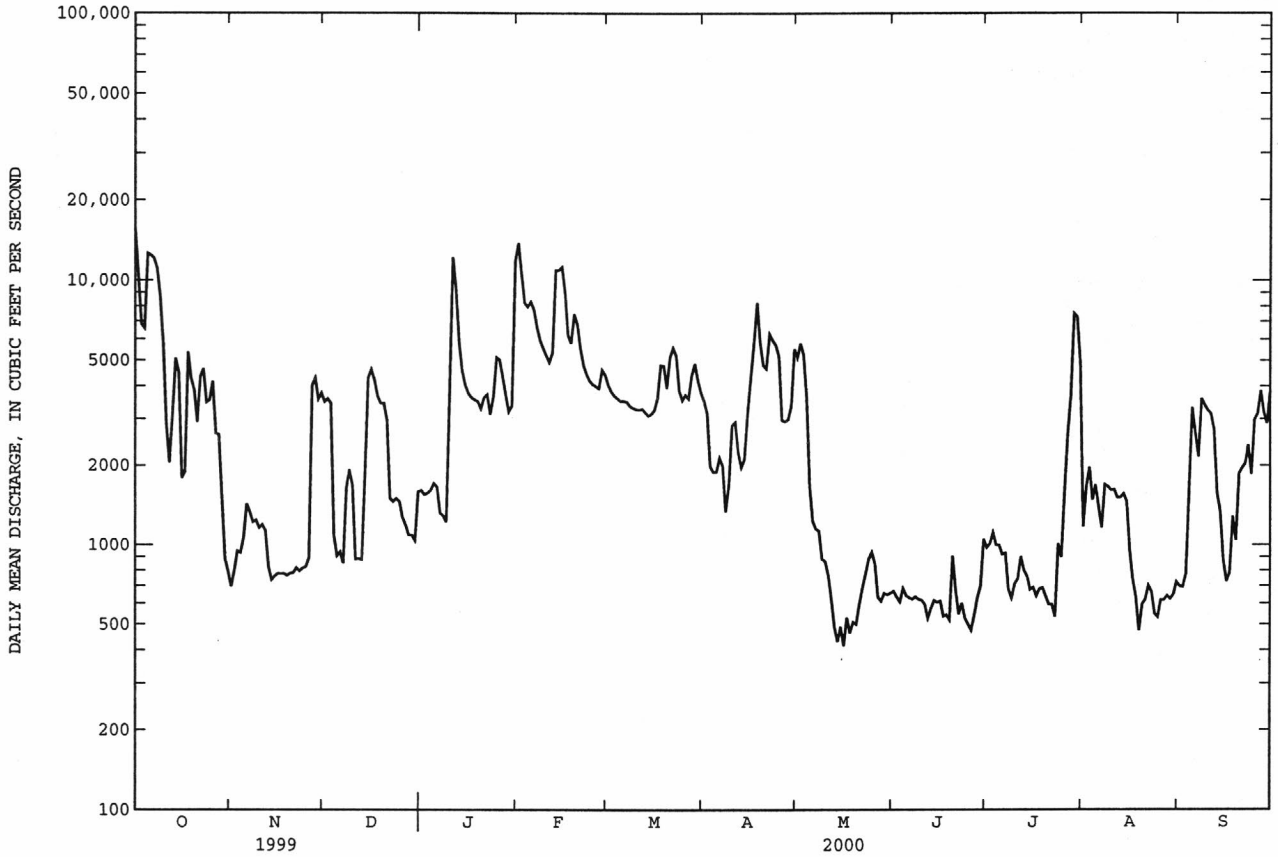
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000*, BY WATER YEAR (WY)

MEAN	2032	1999	2717	5588	6662	7571	4944	2689	2229	1758	1610	1997
MAX	6442	7919	8595	11750	16440	15710	11670	7784	12510	5694	5448	13920
(WY)	1990	1986	1984	1998	1998	1993	1993	1989	1982	1995	1985	1996
MIN	621	522	723	1373	1860	1628	969	824	551	604	634	596
(WY)	1999	1999	1995	1986	1986	1988	1985	1986	1999	1999	1983	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000*	
ANNUAL TOTAL	1018313		1026287			
ANNUAL MEAN	2790		2804		3467	
HIGHEST ANNUAL MEAN					6167	1984
LOWEST ANNUAL MEAN					1488	1988
HIGHEST DAILY MEAN	25000	Sep 16	15500	Oct 1	41400	Sep 6 1996
LOWEST DAILY MEAN	304	Jun 19	415	May 16	210	Oct 23 1981
ANNUAL SEVEN-DAY MINIMUM	483	May 27	476	May 13	223	Oct 2 1981
INSTANTANEOUS PEAK FLOW			18300	Oct 1*	51800	Sep 7 1996
INSTANTANEOUS PEAK STAGE			11.00	Oct 1*	18.97	Sep 7 1996
INSTANTANEOUS LOW FLOW			390	May 16	190	Oct 23 1981
ANNUAL RUNOFF (CFSM)	.81		.81		1.00	
ANNUAL RUNOFF (INCHES)	10.94		11.02		13.60	
10 PERCENT EXCEEDS	7080		5790		10100	
50 PERCENT EXCEEDS	1140		1750		1280	
90 PERCENT EXCEEDS	553		620		606	

e Estimated.
* See REMARKS.

02102500 CAPE FEAR RIVER AT LILLINGTON, NC--Continued



02102908 FLAT CREEK NEAR INVERNESS, NC

LOCATION.--Lat 35°10'54", long 79°10'40", Hoke County, Hydrologic Unit 03030004, on left bank 15 ft downstream of culvert on Manchester Road, Fort Bragg military reservation, 0.4 mi upstream from mouth, and 3.6 mi east of Inverness.

DRAINAGE AREA.--7.63 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1968 to current year.

REVISED RECORDS.--WDR NC-72-1: 1968-70 (M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.18 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some diurnal fluctuation at low flow during growing season. Minimum discharge some years affected by regulation from unknown source. Minimum discharge for period of record also occurred June 8, 25, 1988. Minimum discharge for the current water year also occurred June 28, Aug. 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	11	10	9.0	25	12	8.5	7.6	5.3	5.5	23	7.8
2	15	18	10	8.9	20	12	8.5	6.8	4.8	5.2	31	6.7
3	14	19	10	8.9	19	11	8.9	6.7	4.5	4.5	18	13
4	13	13	10	10	20	11	8.5	6.3	7.3	4.2	13	12
5	13	12	9.7	18	20	11	8.2	6.3	8.8	5.6	11	13
6	12	11	13	10	17	11	7.9	6.1	10	11	8.7	8.7
7	11	11	13	9.8	16	11	7.6	5.7	6.3	7.5	7.6	7.4
8	10	11	11	9.4	15	10	8.3	5.4	5.4	6.3	6.6	6.6
9	10	11	10	9.5	15	10	13	5.4	5.0	5.2	6.1	6.1
10	10	11	11	32	14	10	8.7	5.3	4.8	4.4	7.6	5.7
11	15	11	11	32	14	10	7.9	5.2	4.5	4.1	6.8	5.3
12	16	11	10	14	24	17	7.6	5.0	4.3	8.4	5.9	5.2
13	17	11	10	12	34	12	9.8	4.7	4.3	6.9	5.5	5.0
14	17	10	31	11	26	11	10	4.5	5.0	6.5	5.6	5.3
15	12	10	21	11	26	10	15	4.6	10	7.7	5.0	5.5
16	11	9.9	12	11	18	13	12	4.8	5.8	6.5	4.7	4.7
17	47	9.8	11	10	16	17	9.0	4.9	5.0	9.3	4.4	4.7
18	80	9.8	10	11	19	11	15	5.0	5.0	5.4	4.3	6.1
19	21	9.9	15	12	17	11	11	4.6	6.1	4.6	4.7	12
20	24	9.9	15	18	15	17	8.6	4.4	6.4	5.4	4.6	6.9
21	27	9.9	12	14	14	23	7.9	4.6	5.8	5.2	4.5	5.6
22	18	10	12	11	14	13	7.4	6.1	5.1	5.3	4.3	12
23	15	10	11	19	14	e11	7.2	5.1	7.2	5.2	4.1	56
24	14	10	10	31	13	10	7.4	5.2	5.1	35	4.0	33
25	14	10	9.9	38	13	9.8	9.3	4.7	4.5	25	6.5	13
26	13	13	9.8	22	13	9.9	11	5.4	4.3	26	6.6	19
27	13	21	9.7	16	13	9.8	9.0	4.9	4.2	11	8.7	12
28	12	12	9.7	15	14	11	9.2	4.9	3.9	8.2	18	9.5
29	12	11	9.4	14	12	9.0	10	8.4	14	7.4	7.9	8.6
30	12	10	9.4	21	---	9.0	9.4	6.6	8.6	7.5	7.9	8.2
31	12	---	9.2	35	---	9.0	---	5.8	---	15	12	---
TOTAL	549	347.2	365.8	503.5	510	362.5	281.8	171.0	181.3	275.0	268.6	324.6
MEAN	17.7	11.6	11.8	16.2	17.6	11.7	9.39	5.52	6.04	8.87	8.66	10.8
MAX	80	21	31	38	34	23	15	8.4	14	35	31	56
MIN	10	9.8	9.2	8.9	12	9.0	7.2	4.4	3.9	4.1	4.0	4.7
CFSM	2.32	1.52	1.55	2.13	2.30	1.53	1.23	.72	.79	1.16	1.14	1.42
IN.	2.68	1.69	1.78	2.45	2.49	1.77	1.37	.83	.88	1.34	1.31	1.58

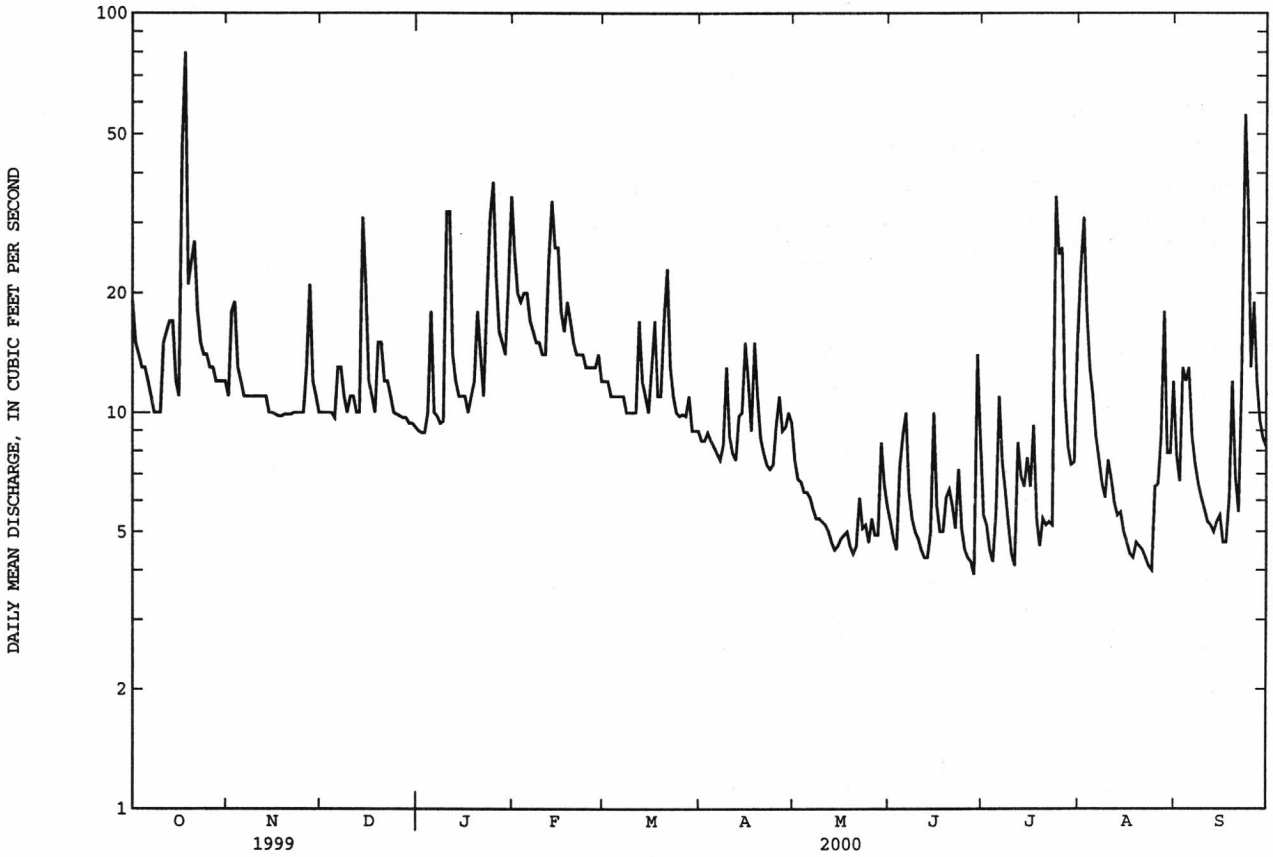
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

MEAN	10.7	11.3	12.0	14.4	15.5	17.3	16.5	11.2	10.7	10.9	9.82	10.3
MAX	19.9	20.5	19.5	20.2	32.0	73.6	106	18.9	25.3	24.5	16.4	22.3
(WY)	1972	1980	1973	1975	1973	1974	1974	1973	1995	1989	1974	1996
MIN	5.73	6.10	7.64	8.69	9.76	8.77	6.50	5.52	4.85	4.70	4.80	4.35
(WY)	1987	1982	1971	1969	1989	1981	1981	2000	1981	1986	1999	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	3932.7		4140.3			
ANNUAL MEAN	10.8		11.3		12.6	
HIGHEST ANNUAL MEAN					26.3	1974
LOWEST ANNUAL MEAN					8.12	1981
HIGHEST DAILY MEAN	106	Sep 16	80	Oct 18	314	Apr 9 1974
LOWEST DAILY MEAN	3.1	Jul 10	3.9	Jun 28	2.2	Jun 24 1988
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 2	4.4	Aug 18	3.2	Jul 6 1988
INSTANTANEOUS PEAK FLOW			173	Oct 17	394	Apr 1 1973
INSTANTANEOUS PEAK STAGE			3.83	Oct 17	7.30	Apr 1 1973
INSTANTANEOUS LOW FLOW			3.5*	Jun 27	1.9*	Jun 7 1988
ANNUAL RUNOFF (CFSM)	1.41		1.48		1.65	
ANNUAL RUNOFF (INCHES)	19.17		20.19		22.40	
10 PERCENT EXCEEDS	16		19		20	
50 PERCENT EXCEEDS	9.4		10		9.9	
90 PERCENT EXCEEDS	4.0		4.9		5.7	

e Estimated.
* See REMARKS.

02102908 FLAT CREEK NEAR INVERNESS, NC--Continued



02102908 FLAT CREEK NEAR INVERNESS, NC--Continued

PRECIPITATION RECORDS

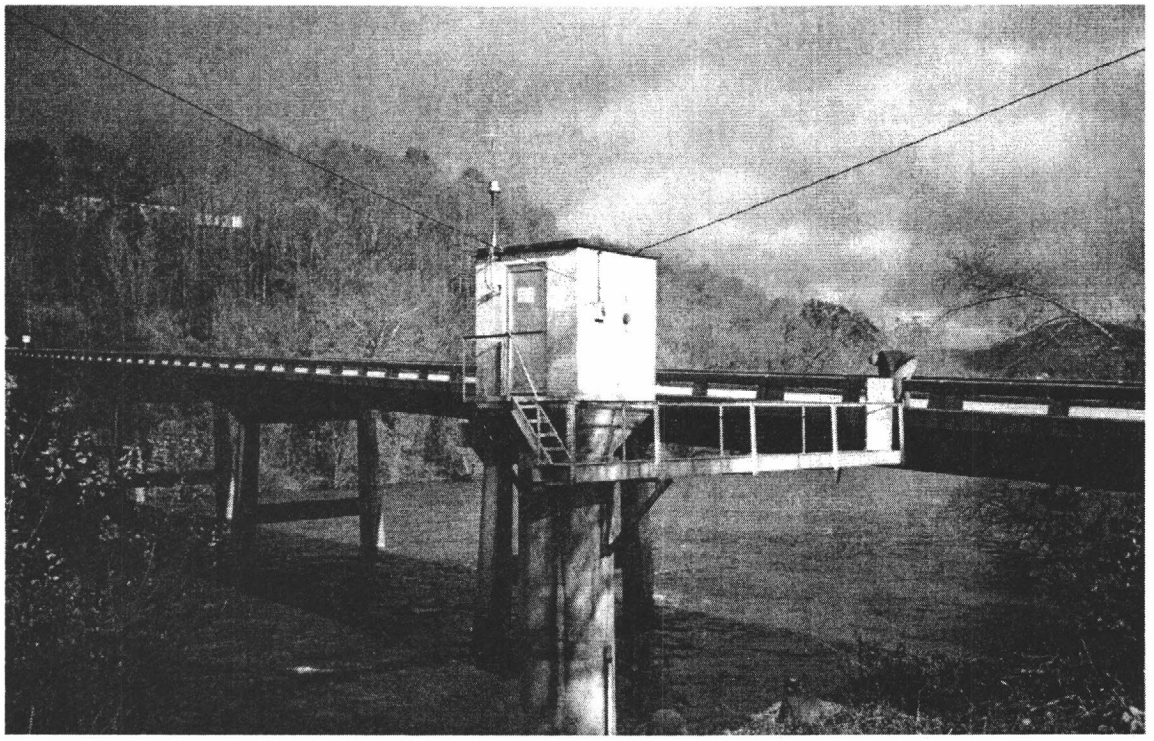
PERIOD OF RECORD.--April 2000 to September 2000.

ISTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, FOR PERIOD APRIL 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	.00	.00	.00	1.43	.00
2	---	---	---	---	---	---	.03	.00	.00	.00	.35	.28
3	---	---	---	---	---	---	.00	.00	.02	.00	.07	.33
4	---	---	---	---	---	---	.01	.00	.10	.06	.09	.24
5	---	---	---	---	---	---	.00	.00	.32	.04	.00	.01
6	---	---	---	---	---	---	.00	.00	.00	.09	.01	.00
7	---	---	---	---	---	---	.00	.00	.00	.01	.00	.00
8	---	---	---	---	---	---	.46	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	.00	.00	.00	.00	.20	.00
11	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
12	---	---	---	---	---	---	.05	.00	.00	.78	.00	.00
13	---	---	---	---	---	---	.30	.00	.00	.04	.01	.00
14	---	---	---	---	---	---	.08	.00	.76	.00	.00	.56
15	---	---	---	---	---	---	.33	.00	.02	.47	.00	.00
16	---	---	---	---	---	---	.01	.00	.00	.85	.00	.00
17	---	---	---	---	---	---	.30	.00	.00	.04	.00	.00
18	---	---	---	---	---	---	.25	.00	.01	.00	.03	.54
19	---	---	---	---	---	---	.00	.00	.41	.00	.00	.07
20	---	---	---	---	---	---	.00	.00	.00	.12	.00	.00
21	---	---	---	---	---	---	.00	.74	.00	.18	.00	.00
22	---	---	---	---	---	---	.00	.00	.30	.00	.00	1.47
23	---	---	---	---	---	---	.00	.01	.00	.05	.00	2.14
24	---	---	---	---	---	---	.01	.00	.00	2.99	.19	.00
25	---	---	---	---	---	---	.21	.14	.00	1.49	.46	.38
26	---	---	---	---	---	---	.00	.00	.00	.01	.00	.16
27	---	---	---	---	---	---	.08	.00	.00	.00	.40	.00
28	---	---	---	---	---	---	.17	.35	.56	.01	.01	.00
29	---	---	---	---	---	---	.31	.05	.41	.00	.00	.00
30	---	---	---	---	---	---	.01	.00	.00	.30	.54	.00
31	---	---	---	---	---	---	---	.00	---	1.08	.00	---
TOTAL	---	---	---	---	---	---	2.61	1.29	2.91	8.61	3.79	6.18



USGS gaging station at French Broad River at Asheville.

02104000 CAPE FEAR RIVER AT FAYETTEVILLE, NC

LOCATION.--Lat 35°02'49", long 78°51'36", Cumberland County, Hydrologic Unit 03030004, at State Highway 24 bridge at Fayetteville, 700 ft upstream of Atlantic Coast Railroad bridge, 0.3 mi downstream of Cross Creek.

DRAINAGE AREA.--4,395 mi^2.

PERIOD OF RECORD.-- Discharge records January 1889 to September 1917, and October 1928 to September 1940. October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 20.52 ft above sea level. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum, 48.3 ft, Sept. 24, 1945.

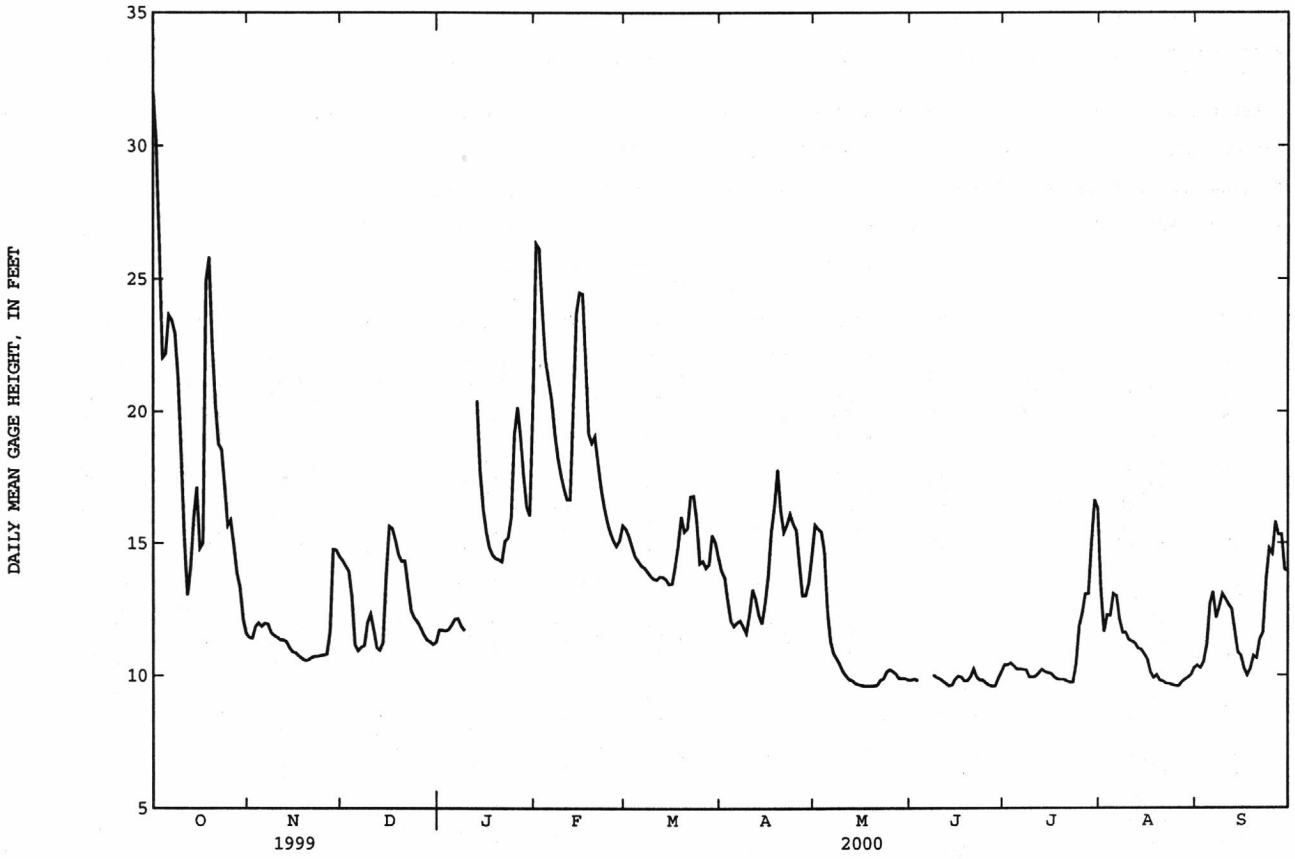
EXTREMES FOR PERIOD OF RECORD.--Maximum, 46.17 ft, Sept. 7, 1996; minimum not determined

EXTREMES FOR CURRENT YEAR.--Maximum, 32.28 ft, Oct. 1; minimum, 9.58 ft, June 27, 28, Aug. 26.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.00	11.44	14.36	11.73	26.33	15.57	13.97	15.71	9.84	10.41	13.25	10.37
2	30.20	11.42	14.15	11.73	26.14	15.28	13.72	15.56	9.88	10.40	11.65	10.28
3	26.31	11.86	13.95	11.69	23.83	14.88	12.83	15.45	9.81	10.47	12.28	10.50
4	22.02	11.99	12.96	11.75	21.98	14.52	12.08	14.69	---	10.37	12.26	11.16
5	22.17	11.86	11.17	11.93	21.22	14.34	11.87	12.50	---	10.24	13.09	12.70
6	23.64	11.98	10.94	12.14	20.47	14.17	12.01	11.32	---	10.25	13.01	13.16
7	23.44	11.95	11.07	12.16	19.24	14.09	12.09	10.84	---	10.23	12.12	12.17
8	22.95	11.63	11.14	11.88	18.29	13.94	11.85	10.65	10.03	10.21	11.62	12.58
9	21.22	11.52	12.00	11.71	17.61	13.78	11.61	10.43	9.94	9.94	11.62	13.08
10	18.27	11.46	12.33	---	17.09	13.67	12.31	10.16	9.89	9.94	11.35	12.89
11	15.17	11.35	11.73	---	16.67	13.64	13.27	10.00	9.80	9.97	11.29	12.67
12	13.05	11.35	11.06	---	16.66	13.75	12.90	9.86	9.71	10.09	11.22	12.51
13	14.09	11.28	10.96	20.42	20.17	13.74	12.29	9.82	9.62	10.23	11.03	11.66
14	15.94	11.05	11.25	17.75	23.71	13.65	11.97	9.71	9.64	10.14	10.98	10.87
15	17.13	10.90	13.76	16.31	24.49	13.46	12.75	9.67	9.86	10.10	10.81	10.74
16	14.81	10.86	15.66	15.44	24.44	13.49	13.80	9.64	9.98	10.07	10.61	10.26
17	15.01	10.74	15.57	14.85	21.87	14.18	15.48	9.61	9.95	9.94	10.13	10.00
18	24.91	10.65	15.11	14.57	19.16	14.98	16.40	9.61	9.80	9.86	9.91	10.25
19	25.82	10.57	14.57	14.44	18.81	16.03	17.80	9.61	9.81	9.85	10.02	10.74
20	22.52	10.59	14.33	14.40	19.06	15.45	16.24	9.62	9.96	9.85	9.81	10.65
21	20.28	10.68	14.34	14.32	18.04	15.57	15.44	9.64	10.25	9.79	9.78	11.36
22	18.77	10.73	13.37	15.09	17.10	16.79	15.72	9.83	9.95	9.74	9.69	11.61
23	18.55	10.73	12.46	15.21	16.38	16.81	16.12	9.88	9.83	9.74	9.68	13.61
24	17.16	10.76	12.19	16.01	15.83	15.83	15.76	10.14	9.83	10.44	9.64	14.79
25	15.67	10.78	12.04	19.13	15.41	14.25	15.51	10.23	9.72	11.86	9.60	14.60
26	15.88	10.81	11.82	20.17	15.11	14.34	14.22	10.16	9.64	12.36	9.59	15.82
27	14.93	11.69	11.56	19.05	14.90	14.08	13.04	10.06	9.60	13.08	9.74	15.32
28	13.89	14.77	11.36	17.53	15.12	14.22	13.05	9.89	9.61	13.08	9.84	15.33
29	13.35	14.75	11.29	16.36	15.69	15.32	13.53	9.89	9.90	15.07	9.92	14.00
30	12.15	14.51	11.18	16.06	---	15.05	14.57	9.89	10.14	16.64	10.02	13.93
31	11.60	---	11.27	20.31	---	14.48	---	9.84	---	16.30	10.28	---
MEAN	19.13	11.56	12.61	---	19.34	14.62	13.81	10.77	---	10.99	10.83	12.32
MAX	32.00	14.77	15.66	---	26.33	16.81	17.80	15.71	---	16.64	13.25	15.82
MIN	11.60	10.57	10.94	---	14.90	13.46	11.61	9.61	---	9.74	9.59	10.00

02104000 CAPE FEAR RIVER AT FAYETTEVILLE, NC--Continued



02104220 ROCKFISH CREEK AT RAEFORD, NC

LOCATION.--Lat 34°59'55", long 79°12'55", Hoke County, Hydrologic Unit 03030004, at upstream side of bridge on U.S. Highway 401, 1.0 mi downstream of Nicholsons Creek, and 1.0 mile north of Raeford.

DRAINAGE AREA.--93.1 mi^2.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 178 ft above sea level, from topographic map. Satellite telemetry at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	127	e140	115	351	169	136	127	66	94	100	93
2	303	140	e130	114	336	162	133	110	63	86	111	99
3	205	170	e120	113	283	157	135	104	59	83	139	158
4	139	168	117	115	241	155	135	99	76	70	131	173
5	128	148	115	142	223	154	134	94	99	76	135	201
6	123	135	124	150	213	152	129	91	110	138	109	188
7	115	130	146	137	202	149	126	88	97	162	91	131
8	109	128	142	124	192	146	126	84	76	146	81	95
9	106	125	126	120	180	142	153	81	68	106	75	86
10	105	123	120	178	172	140	155	78	64	83	73	80
11	113	124	124	331	165	140	138	77	61	74	76	76
12	144	126	121	381	170	168	129	75	58	92	72	72
13	164	127	117	287	242	175	133	73	58	122	68	71
14	198	126	153	196	378	157	146	70	59	102	67	70
15	181	123	205	143	374	147	158	69	89	87	66	70
16	143	120	226	133	305	161	173	68	80	78	64	67
17	199	118	201	131	253	206	164	68	71	73	63	65
18	600	116	151	130	228	189	162	68	66	69	63	70
19	606	117	141	135	212	165	167	66	85	65	76	101
20	398	118	164	152	202	162	150	63	105	77	69	97
21	309	118	165	168	194	197	133	62	87	78	65	82
22	259	e120	153	161	183	201	124	74	76	74	62	92
23	224	e122	139	160	174	184	118	70	130	74	61	290
24	190	e124	131	241	171	159	114	67	93	97	61	460
25	156	e126	126	432	168	150	117	65	73	142	71	419
26	142	e128	122	453	166	146	132	64	67	176	88	275
27	138	e130	121	362	165	144	126	62	64	197	76	183
28	134	e200	120	e260	174	156	123	62	61	128	83	124
29	131	e210	119	213	174	151	137	70	91	91	98	97
30	129	e160	117	198	---	e143	144	76	126	82	87	88
31	128	---	116	283	---	140	---	69	---	100	101	---
TOTAL	6421	4047	4312	6258	6491	4967	4150	2394	2378	3122	2582	4173
MEAN	207	135	139	202	224	160	138	77.2	79.3	101	83.3	139
MAX	606	210	226	453	378	206	173	127	130	197	139	460
MIN	105	116	115	113	165	140	114	62	58	65	61	65
CFSM	2.22	1.45	1.49	2.17	2.40	1.72	1.49	.83	.85	1.08	.89	1.49
IN.	2.57	1.62	1.72	2.50	2.59	1.98	1.66	.96	.95	1.25	1.03	1.67

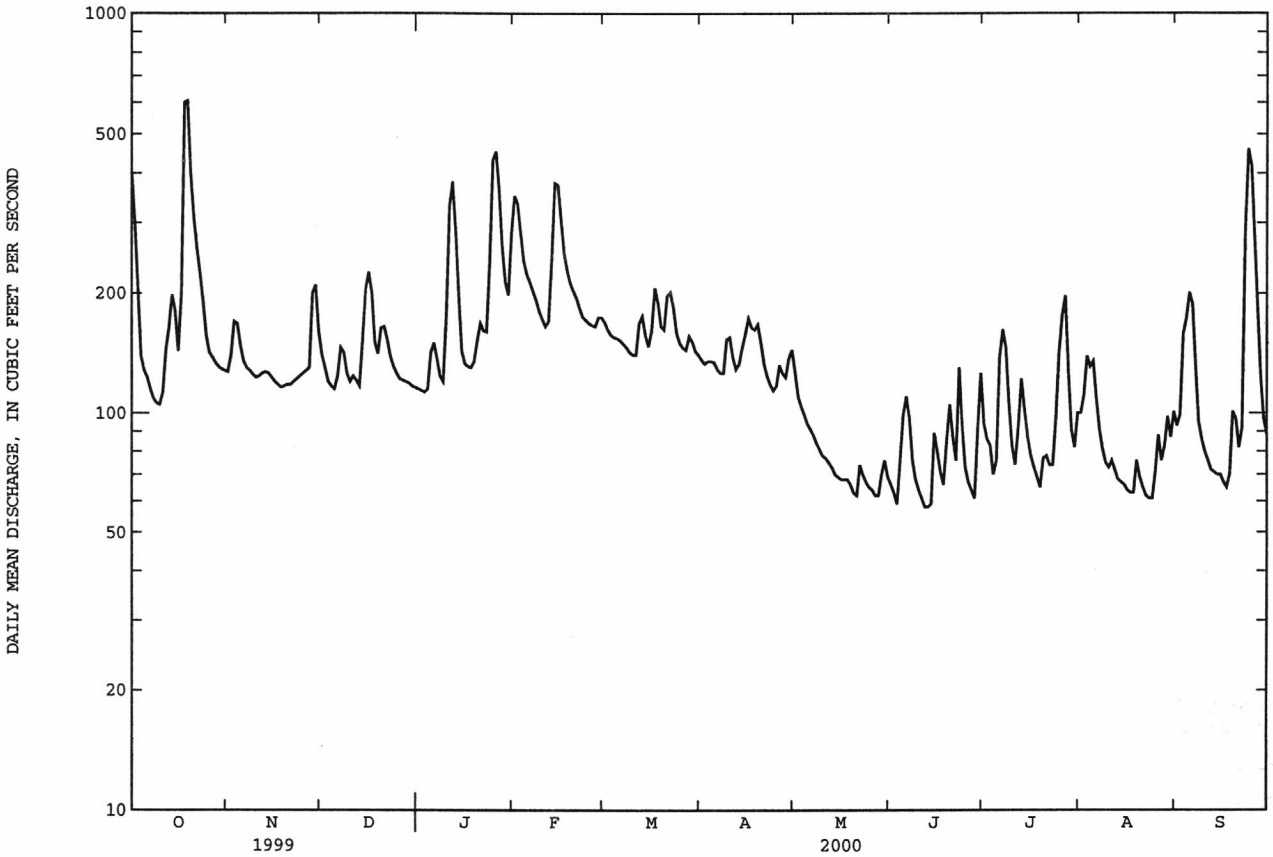
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	123	121	119	151	151	161	144	110	94.1	97.1	99.7	113
MAX	207	169	186	209	291	289	305	182	175	224	176	247
(WY)	2000	1990	1990	1998	1998	1998	1998	1989	1989	1989	1989	1996
MIN	72.0	87.7	84.0	95.7	94.7	97.0	88.3	72.5	58.5	54.4	57.7	59.9
(WY)	1993	1991	1989	1992	1992	1992	1992	1994	1999	1992	1999	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	43918		51295			
ANNUAL MEAN	120		140		124	
HIGHEST ANNUAL MEAN					167	1998
LOWEST ANNUAL MEAN					88.8	1992
HIGHEST DAILY MEAN	760	Sep 17	606	Oct 19	884	Sep 7 1996
LOWEST DAILY MEAN	34	Aug 13	58	Jun 12	34	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	36	Aug 8	63	Jun 8	36	Aug 8 1999
INSTANTANEOUS PEAK FLOW			699	Oct 18	1030	Sep 7 1996
INSTANTANEOUS PEAK STAGE			7.63	Oct 18	8.29	Sep 7 1996
INSTANTANEOUS LOW FLOW			57	Jun 14	34	Aug 9 1999
ANNUAL RUNOFF (CFSM)	1.29		1.51		1.33	
ANNUAL RUNOFF (INCHES)	17.55		20.50		18.09	
10 PERCENT EXCEEDS	199		211		203	
50 PERCENT EXCEEDS	106		126		103	
90 PERCENT EXCEEDS	50		68		60	

e Estimated.

02104220 ROCKFISH CREEK AT RAEFORD, NC--Continued



02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC

LOCATION.--Lat 34°50'05", long 78°49'27", Bladen County, Hydrologic Unit 03030005, on right bank 100 ft upstream from William O. Huske Lock, 1 mi downstream of Cumberland-Bladen County line, 7 mi north of Tar Heel, 9 mi upstream from Phillips Creek, and at river mile 123.

DRAINAGE AREA.--4,852 mi^2.

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1964, published as "Cape Fear River at Lock 3 near Tarheel".

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

GAGE.--Water-stage recorder and concrete lock and dam control. Datum of gage is 28.97 ft above sea level. Prior to Jan. 8, 1939, nonrecording gage on upper lock wall 100 ft downstream at same datum. Auxiliary water-stage recorder 1.8 mi downstream of base gage; prior to Jan. 14, 1943, auxiliary nonrecording gage 400 ft downstream on lower end of lock wall; Jan. 14, 1943, to Sept. 30, 1953, auxiliary water-stage recorder at site 600 ft downstream. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight regulation at high flow, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since September 1981 by B. Everett Jordan Lake (station 02098197). Slight diurnal fluctuation and some regulation for short periods at low flow caused by power plants above station. Prior to regulation, maximum discharge not determined; minimum discharge, 170 ft^3/s, Sep. 20, 1950. Minimum discharge during regulation from unknown source.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26500	2500	5470	2660	20700	6790	5210	7010	1070	1570	4870	1600
2	22900	2410	5180	2690	16900	6510	4880	6570	1130	1580	2720	1510
3	15400	2820	4960	2640	13900	6120	3990	6590	1090	1610	3280	1690
4	6660	2990	4140	2670	12100	5790	3000	5870	1370	1560	3380	2330
5	12600	2850	2250	2810	11800	5560	2810	3760	1480	1420	4290	4070
6	15200	2930	1970	3010	11000	5320	2840	2440	1460	1440	4340	4840
7	14700	2970	2090	3080	9640	5210	3000	1950	1290	1420	3370	3670
8	14000	2620	2060	2860	10200	5050	2930	1700	1220	1410	2720	3780
9	11700	2540	2770	2700	9160	4870	2670	1510	1120	1180	2720	4520
10	8110	2460	3220	3130	8510	4830	3170	1260	1100	1140	2450	4270
11	6880	2370	2840	10500	8030	4780	4140	1130	1040	1210	2380	3980
12	4390	2370	2110	16400	7840	4960	3990	1000	980	1250	2360	3770
13	5020	2320	1970	11500	11300	4960	3310	1050	885	1400	2150	2930
14	7600	2110	2080	9160	16700	4830	2990	921	879	1320	2050	2070
15	8850	1980	4410	7670	15300	4610	3720	748	1110	1320	1910	1920
16	6850	1950	6830	6620	15000	4620	4940	639	1240	1280	1770	1500
17	6460	1840	6840	5910	11800	5310	6600	e521	1230	1190	1360	1240
18	20800	1760	6360	5570	8560	6190	7630	e617	1070	1110	1140	1410
19	18100	1670	5760	5420	9950	7440	9260	679	1080	1050	1300	1930
20	11300	1690	5450	5310	11000	6930	7960	836	1210	1090	1090	1770
21	10500	1770	5420	5180	9820	6880	6730	877	1460	1040	1040	2460
22	8890	1820	4600	6030	8580	8160	6760	1010	1210	1010	916	2730
23	8990	1840	3460	6320	7790	8330	7480	1050	1110	995	903	5280
24	8890	1830	3160	7340	7190	7430	7020	1300	1100	1470	844	7110
25	7120	1860	3000	11400	6710	5700	6660	1380	1000	2950	777	6610
26	7080	1860	2790	11900	6380	5630	5510	1330	909	3670	784	7810
27	6330	2380	2550	10200	6120	5310	3950	1290	833	4490	983	7250
28	5010	5840	2390	9630	6260	5270	3940	1140	865	4520	1090	7200
29	4510	5920	2290	8000	6930	6470	4640	1140	1090	6430	1170	5580
30	3230	5530	2200	7360	---	6200	5540	1130	1310	8360	1260	5330
31	2640	---	2220	11600	---	5610	---	1070	---	7950	1510	---
TOTAL	317210	77800	112840	207270	305170	181670	147270	59518	33941	69435	62927	112160
MEAN	10230	2593	3640	6686	10520	5860	4909	1920	1131	2240	2030	3739
MAX	26500	5920	6840	16400	20700	8330	9260	7010	1480	8360	4870	7810
MIN	2640	1670	1970	2640	6120	4610	2670	521	833	995	777	1240

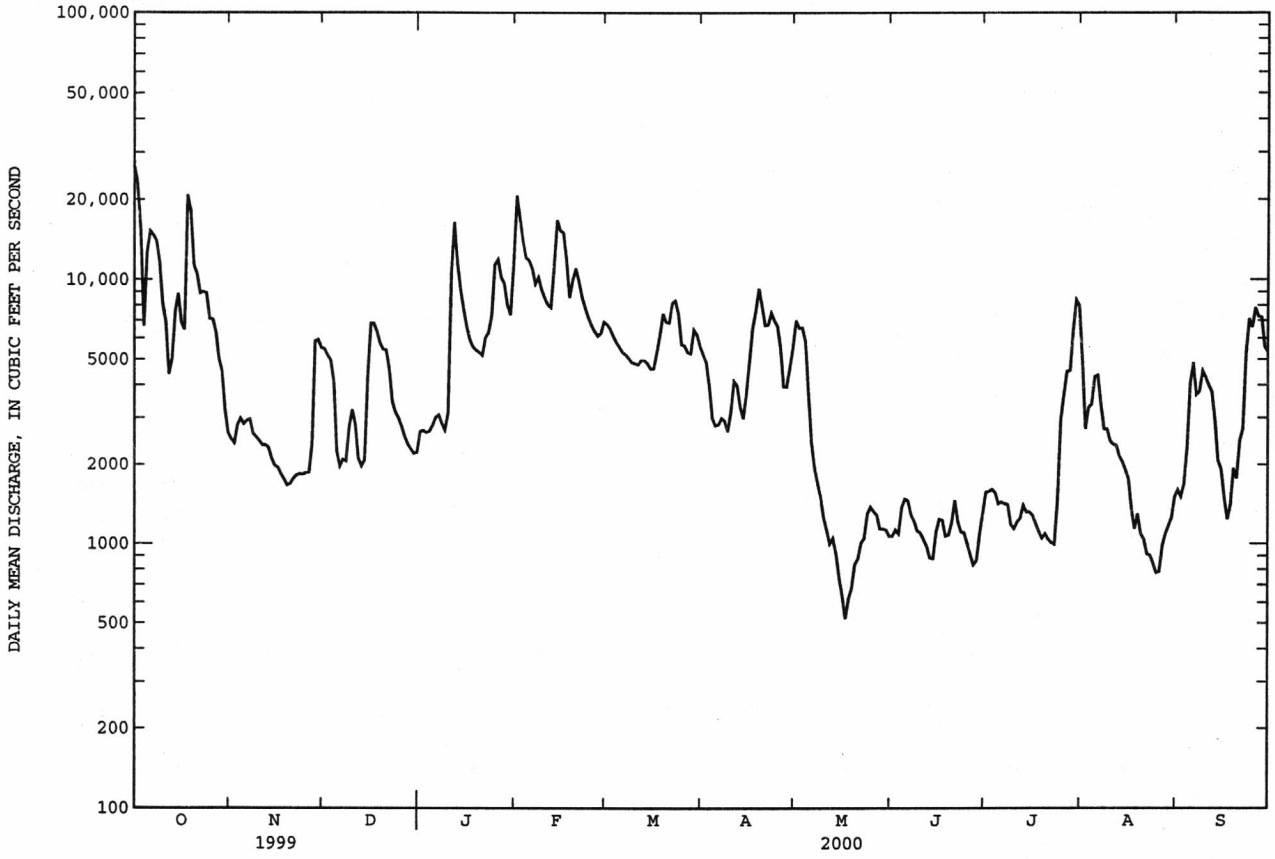
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000*, BY WATER YEAR (WY)

MEAN	3156	3100	4125	7930	9142	10260	6764	3826	3254	2905	2573	3150
MAX	10230	10190	11360	17240	24770	21520	15410	11770	14200	9262	7358	18950
(WY)	2000	1996	1984	1998	1998	1998	1993	1989	1982	1995	1984	1996
MIN	979	1146	1547	2197	2799	3078	1508	1184	914	958	943	935
(WY)	1987	1999	1999	1986	1986	1988	1986	1986	1999	1986	1999	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000*	
ANNUAL TOTAL	1602333		1687211			
ANNUAL MEAN	4390		4610		4995	
HIGHEST ANNUAL MEAN					8328	1984
LOWEST ANNUAL MEAN					2426	1988
HIGHEST DAILY MEAN	35600	Sep 17	26500	Oct 1	60000	Sep 8 1996
LOWEST DAILY MEAN	154	Aug 13	521	May 17	154	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	446	Aug 8	702	May 15	429	Oct 4 1981
INSTANTANEOUS PEAK FLOW			28300	Oct 1	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			16.79	Oct 1	26.75	Sep 8 1996
INSTANTANEOUS LOW FLOW			480	May 17	36*	Aug 13 1999
10 PERCENT EXCEEDS	10400		9370		13400	
50 PERCENT EXCEEDS	2320		3200		2420	
90 PERCENT EXCEEDS	782		1090		1000	

e Estimated.
* Regulated period only (1982-2000). See REMARKS.

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued



02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947, 1955, June to Septemer 2000.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June to September 2000.

pH: June to September 2000.

WATER TEMPERATURE: June to September 2000.

DISSOLVED OXYGEN: June to September 2000.

DISSOLVED OXYGEN, PERCENT SATURATION: June to September 2000.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from June to September 2000.

REMARKS.--Station operated in cooperation with the Middle Cape Fear River Association. The constituents were monitored at approximately 10 ft above the streambed. Dissolved oxygen, percent saturation is computed. Daily records of water temperature for water years 1947 and 1955 are available in the files of the District Office in Raleigh, NC.

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	192, September 9	65, September 26
pH, standard units	8.7, July 16	6.3, August 6, 7, 8
WATER TEMPERATURE, °C	29.9, August 11	20.5, September 30
DISSOLVED OXYGEN, mg/L	10.0, July 16	2.9, August 21
DISSOLVED OXYGEN, PERCENT SATURATION,%	130, July 16	36, August 21

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), PERIOD JUNE 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	143	129	137	139	135	137	137	131	134
2	---	---	---	143	130	136	139	133	136	136	126	130
3	---	---	---	152	143	148	133	117	126	131	126	128
4	---	---	---	150	131	139	117	103	108	136	127	132
5	---	---	---	141	131	136	105	90	101	128	99	115
6	---	---	---	146	141	144	90	78	82	138	100	114
7	---	---	---	150	145	146	90	75	87	155	138	148
8	---	---	---	152	147	150	95	76	88	169	155	164
9	---	---	---	148	137	141	95	87	91	192	169	181
10	---	---	---	146	139	143	107	89	98	186	134	146
11	---	---	---	147	141	145	120	107	115	135	128	131
12	---	---	---	152	140	145	124	120	122	128	125	126
13	---	---	---	157	146	153	127	116	121	131	125	128
14	---	---	---	157	146	151	133	127	131	132	130	131
15	---	---	---	157	146	152	135	132	134	134	110	132
16	---	---	---	153	146	149	139	134	136	135	133	134
17	---	---	---	153	139	147	141	138	140	134	132	134
18	---	---	---	139	134	137	146	141	144	134	130	132
19	---	---	---	144	133	140	146	141	144	133	119	126
20	144	131	137	144	140	142	141	135	139	121	116	119
21	149	144	146	145	142	143	136	124	131	133	115	121
22	145	139	142	152	144	147	127	122	125	137	133	135
23	139	137	137	153	146	150	131	120	123	134	96	120
24	139	137	138	149	138	143	137	131	134	98	89	93
25	139	135	137	159	133	153	141	137	139	94	66	77
26	136	135	136	141	113	131	144	141	143	85	65	74
27	137	135	136	113	91	97	143	141	142	97	85	91
28	138	133	136	111	84	94	146	142	144	90	79	82
29	133	128	131	167	111	139	148	144	146	95	88	93
30	130	123	126	157	132	136	151	145	148	89	84	87
31	---	---	---	137	132	134	148	132	139	---	---	---
MONTH	---	---	---	167	84	140	151	75	126	192	65	122

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, PERIOD JUNE 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.2	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8
2	---	---	---	7.8	7.0	7.1	6.9	6.8	6.8	6.9	6.8	6.8
3	---	---	---	8.1	7.3	7.4	6.8	6.7	6.8	6.8	6.8	6.8
4	---	---	---	7.8	7.2	7.3	6.7	6.7	6.7	6.8	6.8	6.8
5	---	---	---	7.8	7.3	7.6	6.7	6.6	6.7	6.8	6.8	6.8
6	---	---	---	8.0	7.5	7.6	6.6	6.3	6.4	7.0	6.8	6.9
7	---	---	---	8.1	7.4	7.7	6.4	6.3	6.4	7.0	7.0	7.0
8	---	---	---	7.9	7.5	7.6	6.4	6.3	6.4	7.1	7.0	7.0
9	---	---	---	7.9	7.3	7.4	6.5	6.4	6.4	7.1	7.1	7.1
10	---	---	---	7.7	7.3	7.4	6.7	6.4	6.5	7.1	7.0	7.0
11	---	---	---	7.6	7.3	7.4	6.8	6.6	6.7	7.1	7.0	7.0
12	---	---	---	8.3	7.5	7.8	6.9	6.8	6.8	7.1	7.1	7.1
13	---	---	---	8.3	7.7	7.9	6.9	6.7	6.8	7.1	7.1	7.1
14	---	---	---	8.5	7.5	7.7	7.0	6.9	6.9	7.1	7.1	7.1
15	---	---	---	8.5	7.4	7.6	7.1	7.0	7.0	7.1	7.1	7.1
16	---	---	---	8.7	7.4	7.5	7.2	7.0	7.0	7.1	7.0	7.1
17	---	---	---	8.1	7.2	7.3	7.2	7.0	7.1	7.1	7.1	7.1
18	---	---	---	8.0	7.1	7.3	7.2	7.0	7.0	7.1	7.1	7.1
19	---	---	---	7.6	7.2	7.3	7.3	7.0	7.1	7.1	7.0	7.1
20	7.2	6.9	7.0	8.2	7.2	7.6	7.1	6.9	6.9	7.0	6.9	7.0
21	7.2	7.0	7.1	7.4	7.1	7.2	7.0	6.7	6.8	7.1	6.9	7.0
22	7.3	7.1	7.1	7.1	7.0	7.0	6.8	6.7	6.7	7.2	7.1	7.1
23	7.2	7.0	7.1	7.2	7.0	7.0	6.8	6.7	6.7	7.2	6.8	7.1
24	7.5	7.1	7.2	7.1	6.8	6.9	6.8	6.7	6.7	6.8	6.7	6.8
25	7.2	7.0	7.1	7.2	6.9	7.0	6.8	6.7	6.8	6.8	6.6	6.7
26	7.1	6.9	7.0	6.9	6.8	6.9	6.9	6.7	6.8	6.7	6.6	6.6
27	7.2	6.9	7.1	6.8	6.6	6.7	7.1	6.8	7.0	6.8	6.7	6.7
28	7.2	7.1	7.2	6.8	6.6	6.6	7.1	7.0	7.0	6.7	6.6	6.7
29	7.2	7.1	7.2	7.0	6.8	6.9	7.1	6.9	6.9	6.8	6.7	6.8
30	7.4	7.1	7.2	7.0	6.8	6.9	7.0	6.9	6.9	6.8	6.7	6.8
31	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9	---	---	---
MONTH	---	---	---	8.7	6.6	7.3	7.3	6.3	6.8	7.2	6.6	6.9

TEMPERATURE, WATER (DEG. C), PERIOD JUNE 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	29.0	28.1	28.4	26.5	25.8	26.1	26.5	25.9	26.0
2	---	---	---	28.5	27.9	28.1	27.3	26.5	26.7	26.6	26.2	26.3
3	---	---	---	28.4	27.5	27.8	27.5	27.1	27.3	26.4	26.1	26.2
4	---	---	---	28.0	27.2	27.5	27.7	27.2	27.5	26.5	26.3	26.4
5	---	---	---	28.0	27.5	27.7	27.6	27.2	27.4	26.3	25.5	26.0
6	---	---	---	28.5	27.9	28.1	27.3	26.2	26.6	25.5	24.8	25.0
7	---	---	---	28.7	28.2	28.4	27.2	26.6	26.8	24.8	23.9	24.3
8	---	---	---	28.4	28.0	28.2	27.9	27.2	27.5	23.9	23.5	23.6
9	---	---	---	28.4	28.0	28.1	28.5	27.5	27.9	24.0	23.4	23.6
10	---	---	---	28.3	27.9	28.0	29.2	28.2	28.6	24.6	23.9	24.1
11	---	---	---	28.4	28.1	28.3	29.9	29.1	29.4	25.1	24.5	24.7
12	---	---	---	28.5	28.2	28.3	29.8	29.1	29.4	25.4	25.0	25.2
13	---	---	---	28.3	27.9	28.1	29.2	28.5	28.6	25.8	25.4	25.5
14	---	---	---	28.2	27.7	27.8	28.5	28.0	28.2	26.3	25.5	25.8
15	---	---	---	28.1	27.7	27.8	28.0	27.4	27.8	26.5	26.0	26.2
16	---	---	---	28.1	27.5	27.8	28.1	27.3	27.5	26.2	25.6	25.9
17	---	---	---	28.0	27.5	27.7	28.0	27.4	27.7	25.6	24.8	25.1
18	---	---	---	27.9	27.6	27.7	28.1	27.5	27.7	24.9	24.1	24.5
19	---	---	---	28.4	27.7	27.9	28.4	27.9	28.1	24.1	23.5	23.7
20	28.9	28.2	28.5	28.6	28.2	28.3	28.1	27.5	27.7	24.0	23.4	23.5
21	28.9	28.5	28.6	28.5	28.2	28.3	27.7	27.2	27.4	24.0	23.6	23.7
22	29.0	28.6	28.7	28.5	28.1	28.3	27.2	26.6	26.8	24.3	23.9	24.0
23	28.7	28.4	28.5	28.5	28.2	28.4	26.8	26.5	26.6	24.8	24.0	24.3
24	28.8	28.5	28.6	28.6	28.0	28.1	26.8	26.7	26.7	24.1	23.6	23.9
25	28.7	28.4	28.5	28.0	26.7	27.5	26.9	26.7	26.8	24.2	23.7	23.9
26	28.7	28.4	28.5	26.7	25.3	26.1	27.0	26.7	26.9	24.2	24.0	24.1
27	29.0	28.5	28.7	25.3	24.8	25.0	27.2	26.9	27.0	24.0	22.3	23.1
28	29.0	28.7	28.9	25.7	24.5	25.0	27.1	26.8	26.9	22.3	21.1	21.5
29	29.0	28.6	28.8	26.8	25.7	26.3	27.0	26.6	26.8	21.1	20.8	20.9
30	28.6	28.2	28.4	26.9	25.5	26.1	26.6	26.1	26.3	20.9	20.5	20.7
31	---	---	---	26.0	25.4	25.6	26.5	25.9	26.1	---	---	---
MONTH	---	---	---	29.0	24.5	27.6	29.9	25.8	27.4	26.6	20.5	24.4

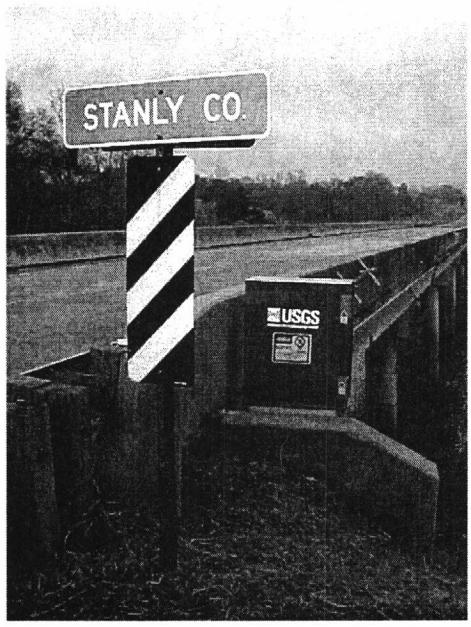
02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

OXYGEN DISSOLVED (MG/L), PERIOD JUNE 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.1	5.5	5.9	6.1	5.7	5.9	5.1	4.2	4.5
2	---	---	---	9.2	5.8	6.7	6.3	5.5	5.7	5.0	4.2	4.5
3	---	---	---	9.3	7.9	8.2	6.0	5.3	5.6	5.0	4.1	4.4
4	---	---	---	8.9	7.3	7.8	5.8	5.2	5.4	5.0	4.2	4.5
5	---	---	---	8.9	7.9	8.3	5.9	5.4	5.6	5.2	4.5	4.9
6	---	---	---	8.6	7.5	8.0	5.8	5.1	5.4	6.1	5.0	5.5
7	---	---	---	8.9	7.5	8.1	5.7	5.3	5.5	6.1	5.2	5.6
8	---	---	---	8.9	7.9	8.3	5.5	5.0	5.2	6.1	5.3	5.7
9	---	---	---	8.8	7.3	7.6	5.2	4.2	4.9	6.3	5.6	5.9
10	---	---	---	8.4	7.2	7.6	5.2	4.1	4.7	6.3	5.5	5.7
11	---	---	---	8.4	7.2	7.7	5.4	4.3	4.8	6.1	5.5	5.7
12	---	---	---	9.4	7.8	8.6	5.5	4.0	4.7	6.3	5.4	5.7
13	---	---	---	9.3	8.3	8.7	5.6	3.5	4.6	6.2	5.4	5.7
14	---	---	---	9.7	8.0	8.5	5.8	4.4	5.0	5.7	5.1	5.4
15	---	---	---	9.6	7.9	8.4	5.8	4.7	5.3	6.1	5.1	5.3
16	---	---	---	10.0	7.6	8.1	6.0	4.3	5.2	5.9	5.0	5.3
17	---	---	---	9.2	7.0	7.6	6.6	4.4	5.1	5.8	4.8	5.3
18	---	---	---	9.3	7.3	7.9	6.1	4.3	5.1	6.0	5.3	5.6
19	---	---	---	8.6	7.2	7.7	6.7	4.8	5.5	6.3	5.6	5.8
20	6.4	4.9	5.5	9.5	7.3	8.3	5.8	3.6	4.5	6.2	5.6	5.8
21	6.4	5.6	6.0	7.9	6.1	6.9	5.1	2.9	4.1	6.4	5.8	6.0
22	7.2	6.0	6.5	6.3	5.3	5.7	4.4	3.0	3.8	6.9	6.1	6.4
23	7.0	5.9	6.4	6.5	5.1	5.7	5.0	3.6	4.1	6.9	6.2	6.4
24	8.0	5.7	6.6	5.8	4.8	5.2	5.0	3.0	4.0	---	---	---
25	6.8	5.4	6.1	6.1	5.5	5.8	4.7	3.3	3.9	---	---	---
26	6.2	5.0	5.5	6.1	5.6	5.8	5.4	3.5	4.5	---	---	---
27	6.9	5.0	6.0	6.3	5.9	6.1	5.9	4.5	5.1	---	---	---
28	7.1	5.9	6.5	6.2	5.9	6.1	5.9	4.8	5.2	---	---	---
29	6.9	6.2	6.6	6.1	5.7	5.9	5.7	4.9	5.3	---	---	---
30	7.5	6.2	6.8	6.1	5.4	5.7	5.7	5.0	5.3	---	---	---
31	---	---	---	6.2	5.9	6.0	5.8	4.3	5.1	---	---	---
MONTH	---	---	---	10.0	4.8	7.2	6.7	2.9	5.0	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), PERIOD JUNE 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	92	71	77	78	73	74	63	52	56
2	---	---	---	119	76	87	80	69	72	61	51	55
3	---	---	---	120	102	106	76	69	71	62	49	54
4	---	---	---	114	94	100	76	68	70	62	52	55
5	---	---	---	114	101	107	77	70	72	64	54	59
6	---	---	---	111	98	103	74	65	69	72	61	66
7	---	---	---	117	98	105	73	67	69	72	61	66
8	---	---	---	116	102	108	71	65	67	72	63	67
9	---	---	---	114	94	99	68	54	64	75	66	70
10	---	---	---	110	92	99	69	54	62	74	64	68
11	---	---	---	109	94	100	72	57	64	73	65	68
12	---	---	---	123	101	111	72	54	63	76	64	69
13	---	---	---	121	108	114	72	45	60	74	64	68
14	---	---	---	126	103	110	75	57	64	69	62	65
15	---	---	---	125	101	108	74	59	67	73	61	64
16	---	---	---	130	99	105	76	56	66	71	60	64
17	---	---	---	119	90	98	85	56	65	70	57	63
18	---	---	---	120	93	102	78	55	65	71	62	66
19	---	---	---	112	93	100	86	61	71	74	66	68
20	84	63	72	124	96	109	74	46	57	73	64	67
21	84	74	78	104	81	90	65	36	52	75	67	71
22	94	78	84	82	68	74	54	38	46	80	72	75
23	91	76	83	84	67	74	63	45	51	80	74	76
24	104	75	86	76	62	68	61	37	50	---	---	---
25	87	70	79	79	71	74	58	41	49	---	---	---
26	81	66	72	75	71	73	67	44	55	---	---	---
27	91	65	78	77	72	75	74	56	64	---	---	---
28	93	77	85	77	73	75	74	60	65	---	---	---
29	90	80	86	77	72	74	71	61	65	---	---	---
30	99	81	89	76	68	72	70	62	66	---	---	---
31	---	---	---	79	73	75	71	52	62	---	---	---
MONTH	---	---	---	130	62	93	86	36	63	---	---	---



USGS gaging station at Rocky River near Stanfield.

02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC

LOCATION.--Lat 34°24'15", long 78°17'38", Bladen County, Hydrologic Unit 03030005, on right bank near upstream end of Lock 1, 1.3 mi upstream from Natmore Creek, 2.0 mi upstream from bridge on State Highway 11, 4.6 mi southeast of Kelly, and at river mile 67.

DRAINAGE AREA.--5,255 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1969 to current year.

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

GAGE.--Water-stage recorder with concrete lock and dam control. Datum of gage is 2.90 ft below sea level (U.S. Army Corps of Engineers bench mark). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges which are fair. Slight regulation at high flow December 1972 to August 1981, caused by storage in B. Everett Jordan Lake. Flow regulated since September 1981 by B. Everett Jordan Lake (station 02098197). Slight diurnal fluctuation and some regulation for short periods at low flow caused by power plants upstream from station. The City of Wilmington diverted an average of 18.0 ft^3/s for municipal water supply, most of which was returned downstream of station as treated effluent. Prior to regulation, maximum discharge: 57,000 ft^3/s, March 3, 1979; gage height: 24.92 ft, from floodmarks. Minimum discharge prior to regulation, 406 ft^3/s, July 1, 1981.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19200	3700	6370	2850	14000	8000	6800	7130	1180	1650	8410	1970
2	21500	3450	6100	3150	16700	7900	6380	7930	1180	1800	4840	1920
3	24200	3690	5850	3060	18200	7550	5810	8150	1280	1780	3390	2070
4	25600	3920	5520	2950	18400	7240	4530	7750	1820	1820	3980	2450
5	23500	3810	3930	3110	17500	6810	3740	6500	2630	1710	4240	4240
6	20300	3720	2540	3250	16400	6410	3450	4170	2570	1640	4950	6410
7	18800	4010	2350	3510	15300	6070	3610	2870	2300	1600	4670	6090
8	18200	3750	2530	3670	14100	5870	3750	2190	1920	1590	3450	4790
9	17500	3290	2870	3440	12700	5680	3520	1710	1670	1480	2920	5340
10	16400	3140	3550	3320	11500	5540	3350	1430	1560	1300	2780	5430
11	14000	2990	3840	5550	10700	5680	4170	1370	1400	1300	2680	5060
12	10200	2890	3130	11600	10200	5910	5050	1300	1220	1300	2690	4570
13	6950	2900	2460	13900	10400	5880	4470	1340	964	1450	2510	3980
14	8550	2940	2290	13700	13000	5670	3970	1140	896	1500	2320	2860
15	10200	2580	3040	11800	15400	5450	4030	823	1040	1470	2250	2260
16	10700	2270	5790	9800	16600	5410	5380	739	1160	1410	2010	2010
17	10200	2140	7700	8310	17200	6780	6580	647	1270	1390	1640	1580
18	16200	2010	7950	7290	16600	7570	8340	659	1220	1290	1200	1430
19	19000	1960	7490	6790	14900	8240	9650	850	1220	1170	1220	2110
20	20900	2150	6840	6650	13600	8990	10500	916	1320	1210	1160	2160
21	21500	2240	6370	6600	13000	9480	9450	983	1490	1140	1060	2300
22	20000	2200	6160	e6640	11900	9950	8230	1030	1590	1140	1080	2830
23	17500	2080	4960	e7560	10600	10500	8380	1100	1420	1330	968	4700
24	15500	2060	4270	8720	9640	10400	8610	1030	1280	1320	864	8470
25	13300	2080	3870	11500	e8600	9360	8340	1220	1230	2180	949	9000
26	11200	2170	3620	14200	e8210	7710	8010	1690	1020	3540	1050	9010
27	10200	2460	3230	15000	e7390	7150	6430	1660	818	4410	1010	9590
28	8470	4280	2840	14600	e7360	6820	5090	1480	866	5060	1090	9130
29	7170	6530	2560	13000	7610	6980	5070	1390	946	5480	1220	8250
30	5910	6520	2520	11400	---	7830	5690	1280	1400	8000	1470	6870
31	4530	---	2630	11300	---	7570	---	1190	---	9170	1860	---
TOTAL	467380	93930	135170	248220	377710	226400	180380	73667	41880	72630	75931	138880
MEAN	15080	3131	4360	8007	13020	7303	6013	2376	1396	2343	2449	4629
MAX	25600	6530	7950	15000	18400	10500	10500	8150	2630	9170	8410	9590
MIN	4530	1960	2290	2850	7360	5410	3350	647	818	1140	864	1430
CFSM	2.87	.60	.83	1.52	2.48	1.39	1.14	.45	.27	.45	.47	.88
IN.	3.31	.66	.96	1.76	2.67	1.60	1.28	.52	.30	.51	.54	.98

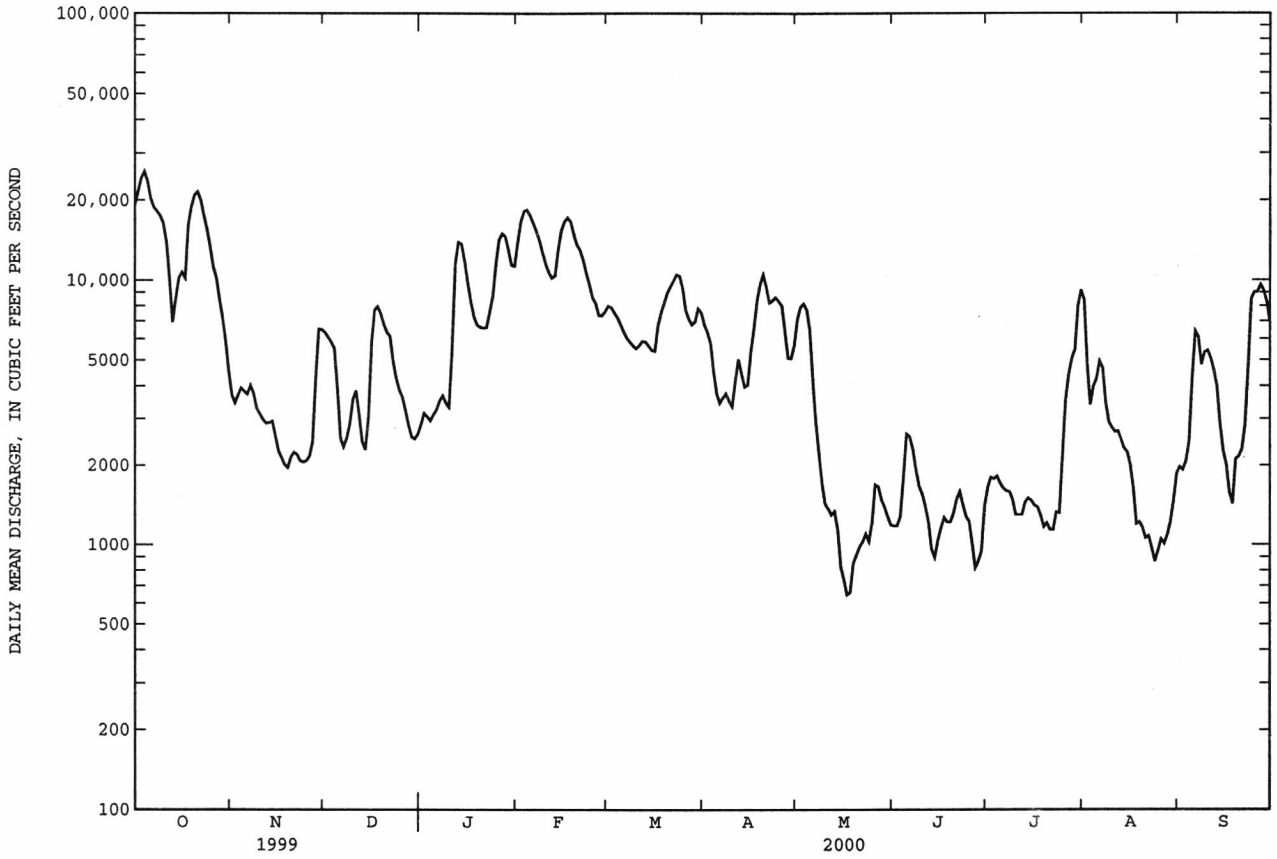
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000*, BY WATER YEAR (WY)

MEAN	3705	3415	4735	8798	10230	11370	7967	4269	3716	3128	2952	3957
MAX	15080	11390	11050	17180	27780	23830	17730	12110	15070	10860	7883	22580
(WY)	2000	1996	1984	1998	1998	1998	1993	1989	1982	1995	1984	1996
MIN	1023	1118	1783	2265	3025	3629	1667	1272	1044	1039	1024	985
(WY)	1999	1999	1999	1986	1986	1988	1986	1986	1999	1998	1999	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000*	
ANNUAL TOTAL	2111555		2132178			
ANNUAL MEAN	5785		5826		5663	
HIGHEST ANNUAL MEAN					8529	1984
LOWEST ANNUAL MEAN					2865	1988
HIGHEST DAILY MEAN	39600	Sep 20	25600	Oct 4	47600	Sep 11 1996
LOWEST DAILY MEAN	496	Aug 14	647	May 17	445	Oct 9 1981
ANNUAL SEVEN-DAY MINIMUM	606	Aug 8	802	May 15	463	Oct 4 1981
INSTANTANEOUS PEAK FLOW			25800	Oct 4	48300	Sep 11 1996
INSTANTANEOUS PEAK STAGE			21.37	Oct 4	24.29	Sep 11 1996
INSTANTANEOUS LOW FLOW			587	May 17	380	Oct 7 1981
ANNUAL RUNOFF (CFSM)	1.10		1.11		1.08	
ANNUAL RUNOFF (INCHES)	14.95		15.09		14.64	
10 PERCENT EXCEEDS	15600		13600		15200	
50 PERCENT EXCEEDS	2940		4020		2880	
90 PERCENT EXCEEDS	871		1220		1080	

e Estimated.
* Regulated period only (1982-2000). See REMARKS.

02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC--Continued



02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--November 1998 to current year. Records from November 1998 to September 1999 are unpublished and available in the USGS District Office, Raleigh, NC.

ISTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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

PRECIPITATION, TOTAL, INCHES, FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
2	---	---	.00	.00	.00	.00	.00	.06	.00	.00	.14	.95
3	---	---	.00	.00	.00	.00	.00	.00	1.08	.00	.01	.30
4	---	---	.00	.17	.00	.67	.00	.00	1.61	.00	.13	.77
5	---	---	.01	.01	.00	.00	.00	.00	.25	.12	.01	.97
6	---	---	.25	.00	.00	.00	.00	.00	.01	.06	.00	.01
7	---	---	.04	.08	.00	.00	.00	.00	.00	.00	.00	.00
8	---	---	.00	.01	.00	.00	.46	.00	.00	.00	.00	.00
9	---	---	.00	.07	.00	.00	.00	.00	.00	.01	.02	.00
10	---	---	.02	.39	.00	.00	.00	.00	.00	.00	.00	.00
11	---	---	.00	.00	.00	.31	.00	.00	.00	.00	.48	.00
12	---	---	.00	.00	.03	.57	.00	.00	.00	.00	.00	.00
13	---	---	.09	.00	.02	.00	.00	.00	.00	.00	.20	.00
14	---	---	.07	.00	.60	.00	.19	.00	.00	.01	.00	.00
15	---	---	.00	.00	.00	.00	.61	.00	.33	.01	.00	.00
16	---	---	.00	.00	.00	3.81	.00	.60	.00	.00	.00	.00
17	---	---	.00	.00	.00	.11	.04	.00	.00	.01	.39	---
18	---	.00	.00	.00	.00	.00	.38	.00	.01	.00	.79	1.56
19	---	.00	.83	.16	.00	.02	.00	.00	1.26	.00	.01	.00
20	---	.00	.02	.37	.00	.56	.00	.00	.00	.00	.00	.00
21	---	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.15
22	---	.04	.08	---	.00	.00	.00	.61	.25	1.25	.00	.53
23	---	.00	.00	---	.00	.00	.00	.00	.11	1.58	.00	2.45
24	---	.00	.00	1.64	.00	.00	.00	.05	.00	1.35	.60	.00
25	---	.00	.00	.36	---	.00	.35	1.28	.00	.89	1.02	.00
26	---	.46	.00	.01	---	.03	.00	.24	.04	.01	.00	.01
27	---	.04	.00	.01	---	.00	.00	.00	.04	.00	.27	.00
28	---	.00	.00	.00	---	.00	.37	.11	.00	.00	.00	.00
29	---	.00	.00	.03	.00	.00	.06	.00	.43	.00	.82	.00
30	---	.00	.00	.56	---	.13	.00	.00	.00	.00	1.58	.00
31	---	---	.00	.00	---	.00	---	.00	---	.13	.03	---
TOTAL	---	---	1.49	---	---	6.21	2.46	2.95	5.42	5.43	6.50	---

USGS gaging station at the Northeast Cape Fear River near Chinquapin.

02105900 HOOD CREEK NEAR LELAND, NC

LOCATION.--Lat 34°16'43", long 78°07'34", Brunswick County, Hydrologic Unit 03030005, on right bank 150 ft downstream from bridge on U.S. Highway 74-76, 0.4 mi downstream from Pasture Pond Branch, 1 mi southeast of Maco, and 4.8 mi northwest of Leland.

DRAINAGE AREA.--21.6 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1950-56, and annual maximum, water years 1953-56. October 1956 to September 1973. October 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.22 ft above sea level. Prior to Nov. 28, 1956, crest-stage gage at site 150 ft upstream at datum 9.60 ft lower. Nov. 29, 1956 to Apr. 24, 1969, water-stage recorder 150 ft upstream at datum 0.19 ft higher. Satellite telemetry at station.

REMARKS.--Records fair except those for Oct. to Feb. and those for estimated daily discharges, which are poor. Maximum gage height for period of record from floodmark. Low flows possibly affected by tide. Minimum discharge for period of record, no flow, also occurred Sept. 10,11, 1997. Low flow for current water year not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	24	17	12	140	14	13	21	13	97	51	118
2	102	69	15	11	105	13	12	16	13	33	45	76
3	77	204	e14	11	82	12	11	13	14	21	34	84
4	60	132	14	11	68	11	10	10	14	17	83	100
5	51	89	13	12	57	12	8.5	8.9	16	16	263	223
6	49	68	14	11	48	12	8.2	7.9	17	15	177	668
7	44	55	15	12	41	11	8.0	6.5	17	15	95	298
8	35	45	15	13	37	10	7.8	5.6	18	14	57	157
9	30	38	14	13	33	9.0	10	4.8	17	14	46	101
10	26	33	13	17	31	8.5	11	4.0	17	13	62	69
11	24	29	13	25	29	8.2	9.8	e3.2	16	13	79	49
12	78	25	12	26	26	94	8.5	e3.1	14	13	120	37
13	97	23	14	20	24	143	7.8	e2.5	13	13	101	30
14	79	21	18	16	38	69	8.6	e2.3	12	12	62	25
15	62	19	18	14	64	44	19	e2.0	11	12	40	22
16	48	17	16	12	56	37	36	e1.9	9.7	13	29	19
17	428	16	15	12	42	96	28	e1.7	8.9	13	24	18
18	823	15	13	11	33	95	42	e1.5	8.5	13	23	42
19	347	14	18	12	29	58	56	e1.3	9.2	12	48	137
20	204	14	28	18	26	48	38	1.2	12	11	64	104
21	160	14	31	25	22	64	26	1.7	12	11	43	68
22	129	17	26	23	20	66	20	2.4	12	11	30	58
23	103	18	23	38	18	48	16	2.4	13	14	24	629
24	79	18	21	117	17	37	13	2.4	13	22	21	822
25	62	21	18	465	16	30	13	2.3	12	56	19	323
26	51	20	16	334	15	25	13	8.5	11	406	18	203
27	43	26	15	186	15	21	12	17	9.6	244	18	136
28	36	29	14	130	16	19	15	14	8.8	116	24	93
29	32	24	14	101	15	16	33	9.6	47	70	29	66
30	28	19	13	93	---	15	33	9.5	233	49	86	49
31	26	---	12	137	---	14	---	12	---	46	187	---
TOTAL	3563	1156	512	1938	1163	1159.7	547.2	200.2	641.7	1425	2002	4824
MEAN	115	38.5	16.5	62.5	40.1	37.4	18.2	6.46	21.4	46.0	64.6	161
MAX	823	204	31	465	140	143	56	21	233	406	263	822
MIN	24	14	12	11	15	8.2	7.8	1.2	8.5	11	18	18
CFSM	5.32	1.78	.76	2.89	1.86	1.73	.84	.30	.99	2.13	2.99	7.44
IN.	6.14	1.99	.88	3.34	2.00	2.00	.94	.34	1.11	2.45	3.45	8.31

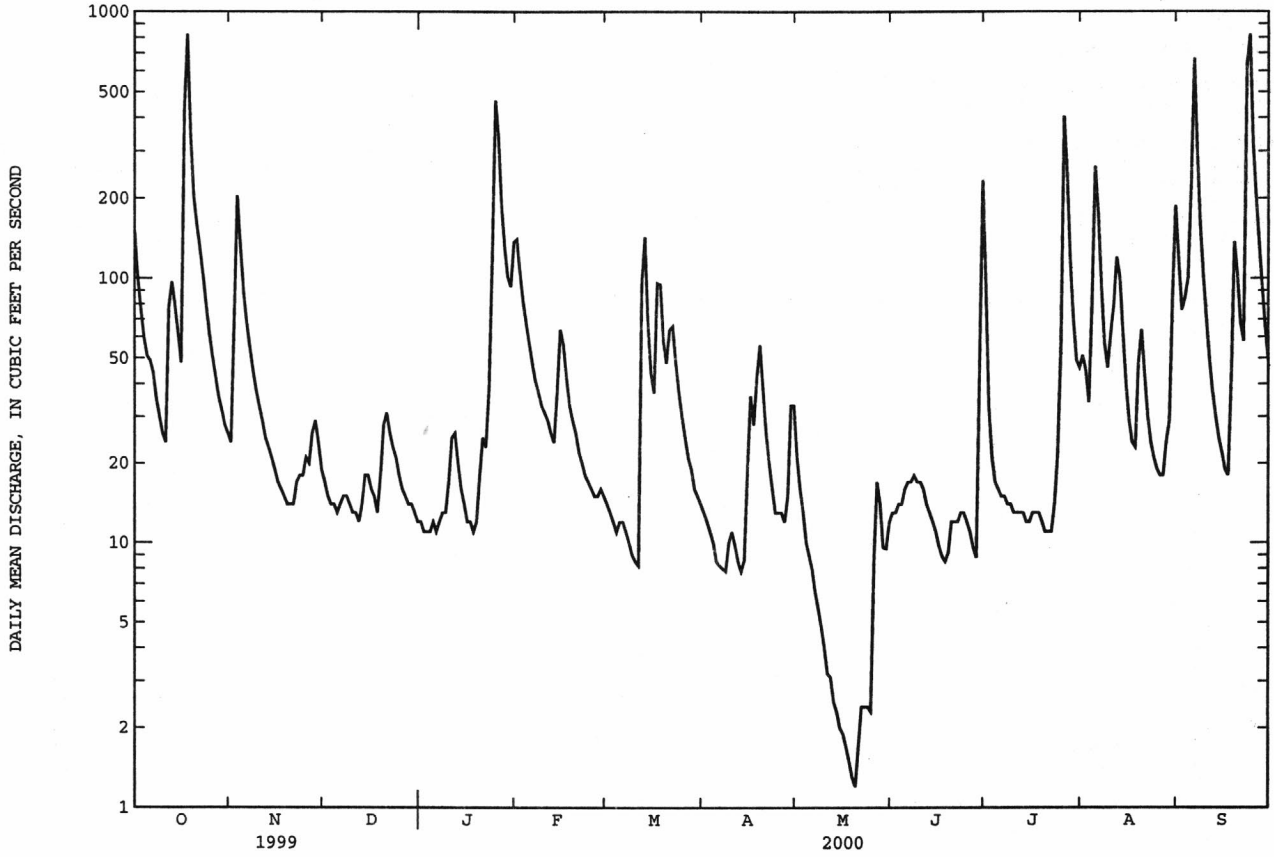
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000@, BY WATER YEAR (WY)

MEAN	31.9	20.4	28.3	48.5	56.5	54.4	31.8	19.5	24.1	40.2	51.3	62.3
MAX	115	52.6	74.5	93.8	177	111	115	137	143	133	153	534
(WY)	2000	1960	1973	1964	1998	1959	1961	1999	1961	1996	1969	1999
MIN	1.48	3.51	3.39	9.95	11.5	12.4	3.69	1.67	.32	.73	.15	.51
(WY)	1968	1966	1966	1957	1957	1967	1967	1995	1960	1957	1957	1963

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1957 - 2000@	
ANNUAL TOTAL	33625.0		19131.8			
ANNUAL MEAN	92.1		52.3		39.0	
HIGHEST ANNUAL MEAN					80.6	1999
LOWEST ANNUAL MEAN					15.6	1968
HIGHEST DAILY MEAN	3000	Sep 16	823	Oct 18	3000	Sep 16 1999
LOWEST DAILY MEAN	1.4	Jun 14	1.2	May 20	.00	Sep 10 1997
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 2	1.6	May 15	.02	Sep 4 1997
INSTANTANEOUS PEAK FLOW			1180	Sep 23	4800*	Sep 16 1999
INSTANTANEOUS PEAK STAGE			8.71	Sep 23	13.89*	Sep 16 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00*	Oct 5 1968
ANNUAL RUNOFF (CFSM)	4.26		2.42		1.81	
ANNUAL RUNOFF (INCHES)	57.91		32.95		24.55	
10 PERCENT EXCEEDS	150		108		88	
50 PERCENT EXCEEDS	25		20		16	
90 PERCENT EXCEEDS	6.6		9.4		1.6	

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

02105900 HOOD CREEK NEAR LELAND, NC--Continued



02106500 BLACK RIVER NEAR TOMAHAWK, NC

LOCATION.--Lat 34°45'17", long 78°17'21", Sampson County, Hydrologic Unit 03030006, on left bank 30 ft upstream from bridge on State Highway 411, 0.2 mi downstream of Clear Run Swamp, and 3.8 mi northeast of Tomahawk.

DRAINAGE AREA.--676 mi^2.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1723: 1955(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft above sea level. Nonrecording gage on downstream side of bridge Oct. 1, 1951 to June 29, 1961. Water-stage recorder was at present site at datum of 24.26 ft June 30, 1961 to Sept. 30, 1964. Satellite telemetry at station

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 22.0 ft, present datum; discharge, 14,500 ft^3/s and floods in 1945 and 1948 reached a stage of 17.6 ft, present datum; discharge, 5,420 ft^3/s, from information furnished by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4360	1760	730	526	2900	834	1430	714	193	454	801	990
2	5670	1710	685	508	2930	783	1250	665	182	374	856	843
3	7660	1900	657	492	2950	734	1080	641	172	297	946	707
4	7230	2100	639	482	2920	690	945	596	341	223	1120	767
5	6010	2200	622	503	2790	653	857	531	695	191	1260	1150
6	4840	2160	606	e480	2570	618	786	469	838	195	1210	1500
7	4000	2070	606	e550	2250	581	718	417	911	241	963	1640
8	3350	1920	594	582	1910	548	666	372	970	249	788	1610
9	2850	1770	e570	574	1710	528	697	332	1020	222	746	1490
10	2460	1600	552	639	1550	498	770	302	1050	205	739	1060
11	2020	1420	540	898	1400	468	739	273	955	209	650	668
12	1790	1260	526	1030	1280	520	675	247	755	208	593	528
13	1660	1140	513	1060	1210	664	672	225	575	262	598	469
14	1610	1060	531	1020	1260	676	760	206	460	318	604	438
15	1610	998	605	942	1410	638	870	185	348	268	583	409
16	1600	948	638	844	1520	623	1010	170	267	224	517	366
17	1790	894	621	775	1590	1030	1120	156	230	191	457	307
18	2950	843	602	740	1630	1520	1210	153	230	167	423	268
19	4880	796	595	722	1650	1950	1310	149	282	151	485	553
20	9140	759	674	761	1640	2410	1440	137	332	142	469	752
21	11200	732	765	835	1610	2560	1540	126	338	148	372	674
22	10200	722	790	846	1550	2520	1470	141	327	528	304	547
23	8410	762	786	872	1460	2450	1350	220	330	660	262	923
24	6650	819	764	1160	1350	2400	1120	236	358	486	230	1430
25	5210	818	729	1600	1230	2340	877	198	360	436	264	1610
26	4240	792	689	1990	1120	2210	803	185	359	539	360	1640
27	3570	820	657	2420	1030	2010	770	169	359	638	319	1610
28	3050	853	631	2770	952	1840	711	153	343	640	265	1490
29	2710	839	604	2940	890	1750	717	154	344	584	279	1290
30	2350	784	578	2910	---	1700	746	172	467	389	293	1120
31	1970	---	549	2880	---	1590	---	192	---	526	677	---
TOTAL	137040	37249	19648	35351	50262	40336	29109	8886	14391	10365	18433	28849
MEAN	4421	1242	634	1140	1733	1301	970	287	480	334	595	962
MAX	11200	2200	790	2940	2950	2560	1540	714	1050	660	1260	1640
MIN	1600	722	513	480	890	468	666	126	172	142	230	268
CFSM	6.54	1.84	.94	1.69	2.56	1.92	1.44	.42	.71	.49	.88	1.42
IN.	7.54	2.05	1.08	1.95	2.77	2.22	1.60	.49	.79	.57	1.01	1.59

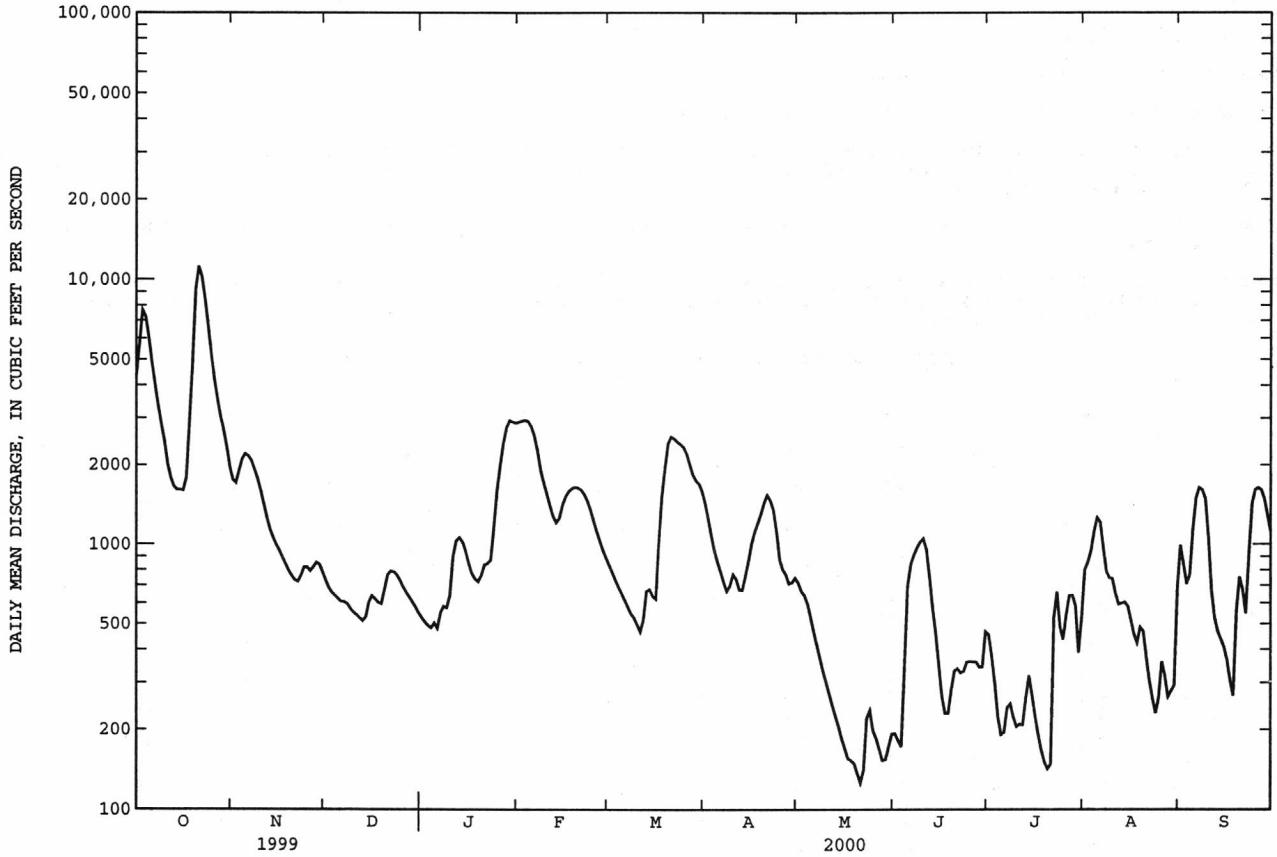
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2000, BY WATER YEAR (WY)

MEAN	546	504	716	1167	1351	1443	1067	540	473	486	693	735
MAX	4421	1412	2164	2903	4212	3410	3070	1687	3089	2088	2810	5812
(WY)	2000	1963	1993	1993	1998	1983	1973	1978	1995	1965	1974	1999
MIN	29.6	57.1	238	287	448	460	225	141	113	68.0	25.2	13.4
(WY)	1955	1974	1989	1986	1989	1981	1981	1986	1985	1998	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1952 - 2000	
ANNUAL TOTAL	529779		429919			
ANNUAL MEAN	1451		1175		807	
HIGHEST ANNUAL MEAN					1300	1960
LOWEST ANNUAL MEAN					327	1986
HIGHEST DAILY MEAN	27300	Sep 18	11200	Oct 21	27300	Sep 18 1999
LOWEST DAILY MEAN	25	Aug 12	126	May 21	8.9	Sep 13 1954
ANNUAL SEVEN-DAY MINIMUM	30	Aug 6	147	May 16	9.9	Oct 9 1954
INSTANTANEOUS PEAK FLOW			11300	Oct 21	28500	Sep 18 1999
INSTANTANEOUS PEAK STAGE			21.17	Oct 21	27.14*	Sep 18 1999
INSTANTANEOUS LOW FLOW			121	May 21	8.5*	Oct 13 1954
ANNUAL RUNOFF (CFSM)	2.15		1.74		1.19	
ANNUAL RUNOFF (INCHES)	29.15		23.66		16.23	
10 PERCENT EXCEEDS	3370		2410		1800	
50 PERCENT EXCEEDS	643		746		526	
90 PERCENT EXCEEDS	125		230		107	

e Estimated.
* See REMARKS.

02106500 BLACK RIVER NEAR TOMAHAWK, NC--Continued



0210783240 HERRINGS MARSH RUN TRIBUTARY NEAR SUMMERLINS CROSSROADS, NC

LOCATION.--Lat 35°05'49", long 77°56'01", Duplin County, Hydrologic Unit 03030007, at upstream side of culvert on Secondary Road 1508, and 1.6 mi northeast of Summerlins Crossroads.

DRAINAGE AREA.--1.49 mi^2.

PERIOD OF RECORD.--May 1991 to September 2000 (discontinued).

GAGE.--Water stage recorder. Elevation of gage is 95 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum discharge and stage for period of record, result of beaver dam failure.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	8.1	3.7	2.7	3.2	1.8	e1.7	e2.9	e1.7	e1.6	e6.8	e1.7
2	17	11	3.4	2.8	3.0	1.7	e1.8	e2.8	e1.7	e1.3	e4.5	e1.8
3	17	9.6	3.2	2.8	2.9	1.8	e1.7	e2.9	e1.5	e.97	e2.8	e2.3
4	17	8.2	3.1	2.8	2.9	1.8	e1.6	e2.7	e1.8	e.89	e3.1	e2.9
5	17	8.0	3.0	3.0	2.9	1.6	e1.7	e2.4	e2.4	e.81	e4.7	e3.8
6	16	7.6	3.0	2.5	2.9	1.6	e1.6	e2.0	e1.8	e1.3	e3.5	e2.7
7	16	7.6	3.1	2.6	2.8	1.6	e1.5	e1.9	e1.5	e1.2	e2.9	e2.0
8	15	7.4	2.9	2.6	2.9	1.6	e1.4	e1.8	e1.3	e.97	e2.7	e1.8
9	14	7.7	2.7	2.6	2.8	1.6	e1.3	e1.7	e1.7	e.80	e2.5	e1.7
10	14	7.5	2.6	3.0	2.8	1.5	e4.3	e1.6	e1.6	e.84	e2.2	e1.6
11	14	7.2	2.5	2.7	2.7	1.6	e3.5	e1.8	e1.4	e.89	e2.0	e1.5
12	14	7.1	2.3	2.6	3.1	1.8	e2.8	e1.7	e1.3	e.86	e1.9	e1.4
13	14	6.6	2.2	2.6	3.1	1.6	e2.4	e1.7	e1.5	e.80	e1.8	e1.3
14	14	6.3	2.7	2.6	3.3	1.4	e2.0	e1.6	e1.8	e.78	e1.7	e1.2
15	12	6.1	2.3	2.2	2.9	1.4	e2.8	e1.5	e1.9	e.76	e1.8	e1.2
16	12	5.7	2.2	2.3	2.6	1.8	e2.2	e1.4	e2.2	e.92	e2.2	e1.1
17	34	5.6	2.1	2.3	2.4	9.1	e1.8	e1.3	e1.8	e1.4	e2.7	e1.0
18	22	5.5	2.1	2.4	2.4	2.0	e2.7	e1.4	e1.5	e.90	e3.2	e1.8
19	13	5.5	2.5	2.5	2.5	1.6	e2.5	e1.2	e1.7	e.68	e2.8	e1.7
20	12	5.4	2.4	2.8	2.4	2.2	e2.2	e1.1	e2.2	e.80	e2.5	e1.6
21	13	5.4	2.3	2.6	2.4	2.8	e2.0	e1.4	e3.1	e1.6	e1.8	e1.5
22	11	5.8	2.3	2.5	2.3	2.3	e2.4	e1.8	e2.6	e1.4	e1.7	e2.7
23	11	5.2	2.2	3.2	2.3	2.2	e3.8	e2.5	e1.9	e1.2	e1.6	3.9
24	10	4.9	2.1	3.4	2.4	1.7	e4.1	e1.9	e1.7	e1.0	e1.5	2.7
25	9.9	4.8	2.1	4.4	2.2	1.6	e5.3	e1.9	e1.2	e3.0	e1.3	2.1
26	9.4	4.7	2.1	3.2	2.2	1.7	e4.4	e1.7	e1.0	e2.2	e1.5	2.5
27	9.3	4.8	2.2	3.0	2.1	e2.3	e3.9	e1.5	e.92	e1.8	e1.7	2.2
28	8.7	4.4	2.3	2.9	2.0	e2.7	e3.6	e1.6	e1.5	e1.5	e2.2	2.2
29	8.7	4.0	2.4	2.7	1.7	e2.2	e3.2	e1.7	e2.1	e2.3	e2.7	2.1
30	8.3	3.9	2.6	3.5	---	e1.9	e3.1	e2.6	e1.8	e4.1	e2.5	2.0
31	8.4	---	2.7	3.7	---	e1.8	---	e2.3	---	e18	e2.2	---
TOTAL	429.7	191.6	79.3	87.5	76.1	64.3	79.3	58.3	52.12	57.57	79.0	60.0
MEAN	13.9	6.39	2.56	2.82	2.62	2.07	2.64	1.88	1.74	1.86	2.55	2.00
MAX	34	11	3.7	4.4	3.3	9.1	5.3	2.9	3.1	18	6.8	3.9
MIN	8.3	3.9	2.1	2.2	1.7	1.4	1.3	1.1	.92	.68	1.3	1.0
CFSM	9.30	4.29	1.72	1.89	1.76	1.39	1.77	1.26	1.17	1.25	1.71	1.34
IN.	10.73	4.78	1.98	2.18	1.90	1.61	1.98	1.46	1.30	1.44	1.97	1.50

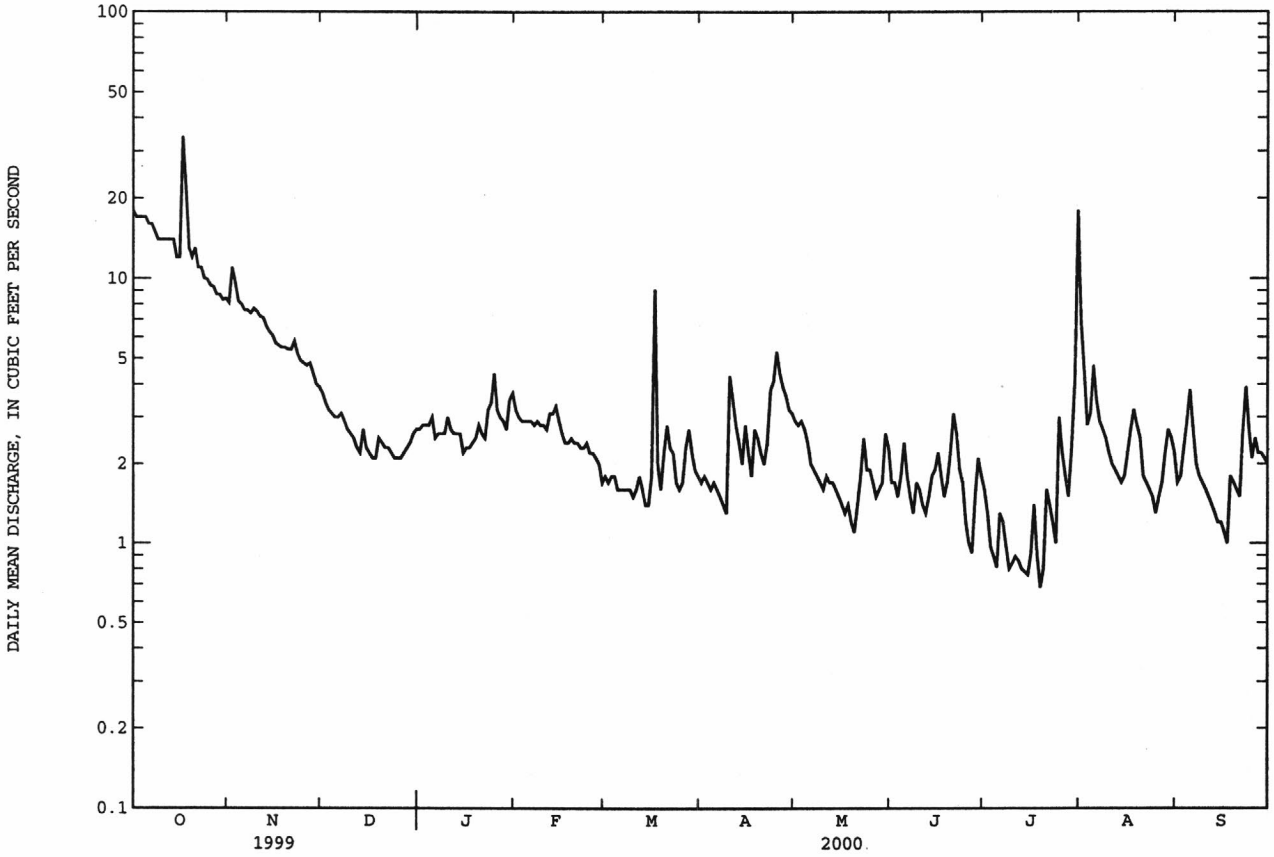
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

MEAN	2.67	1.87	1.71	2.64	3.04	2.63	1.90	1.13	1.60	1.38	1.53	4.11
MAX	13.9	6.39	3.12	4.63	7.06	3.75	3.31	1.88	4.59	3.25	3.77	22.6
(WY)	2000	2000	1993	1993	1998	1993	1993	2000	1995	1991	1992	1999
MIN	.096	.61	.77	1.25	1.19	1.60	.78	.46	.23	.29	.26	.61
(WY)	1995	1999	1996	1994	1994	1996	1995	1994	1994	1993	1996	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	1732.23		1314.79			
ANNUAL MEAN	4.75		3.59		2.16	
HIGHEST ANNUAL MEAN					3.59	2000
LOWEST ANNUAL MEAN					1.07	1994
HIGHEST DAILY MEAN	250	Sep 16	34	Oct 17	250	Sep 16 1999
LOWEST DAILY MEAN	.00	Aug 2	.68	Jul 19	.00	Aug 2 1999
ANNUAL SEVEN-DAY MINIMUM	.02	Jul 30	.82	Jul 9	.02	Jul 30 1999
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		933*	Sep 16 1999
INSTANTANEOUS PEAK STAGE			NOT DETERMINED		7.34	Sep 16 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00*	Aug 2 1999
ANNUAL RUNOFF (CFSM)	3.19		2.41		1.45	
ANNUAL RUNOFF (INCHES)	43.25		32.83		19.74	
10 PERCENT EXCEEDS	12		8.1		3.9	
50 PERCENT EXCEEDS	1.8		2.3		1.4	
90 PERCENT EXCEEDS	.26		1.4		.29	

e Estimated.
* See REMARKS.

0210783240 HERRINGS MARSH RUN TRIBUTARY NEAR SUMMERLINS CROSSROADS, NC--Continued



02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC

LOCATION.--Lat 34°49'40", long 77°50'00", Duplin County, Hydrologic Unit 03030007, on right bank 540 ft downstream of bridge on State Highway 41, 0.5 mi downstream of Muddy Creek, and 1.2 mi west of Chinquapin.

DRAINAGE AREA.--599 mi^2.

PERIOD OF RECORD.--July 1940 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 11, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1908 reached a stage of 22.6 ft at old bridge site 1,000 ft upstream from gage. Flood in 1928 reached a stage 0.8 ft lower than the flood in 1908, from information by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3840	1100	732	458	3120	618	1060	949	150	168	1160	440
2	3940	1090	692	438	3190	586	994	924	154	153	972	474
3	3920	1340	653	422	3010	552	882	844	146	131	835	524
4	3890	1460	614	412	2770	522	764	734	220	101	788	567
5	3780	1480	579	414	2510	502	664	615	339	80	784	778
6	3460	1490	554	416	2230	481	587	515	475	83	752	1040
7	2950	1450	549	421	1900	457	528	437	599	90	702	1150
8	2370	1380	540	438	1570	435	481	378	668	100	673	1220
9	1830	1320	531	446	1320	419	460	329	656	93	641	1240
10	1460	1260	514	495	1140	402	457	290	555	86	589	1230
11	1230	1180	498	731	1020	388	459	257	442	77	502	1180
12	1120	1090	482	863	930	431	460	221	384	63	410	1090
13	1140	997	470	910	900	461	480	188	338	52	364	921
14	1200	901	465	895	1000	446	566	157	283	46	361	699
15	1240	817	464	823	1200	427	759	126	225	44	339	523
16	1230	751	463	757	1360	434	1130	104	168	44	295	410
17	1370	699	468	701	1460	935	1320	92	175	41	251	333
18	2870	656	481	653	1500	1440	1420	82	205	38	208	397
19	5060	621	497	622	1470	1790	1570	73	182	37	167	1000
20	6120	596	540	630	1410	2330	1620	66	130	34	141	1180
21	7130	576	574	660	1320	2980	1540	59	137	30	109	1120
22	7650	597	607	658	1210	3270	1430	61	174	74	86	1010
23	7100	644	647	716	1100	3160	1340	118	282	308	71	1090
24	5940	653	669	1080	992	2830	1210	204	407	600	62	1550
25	4840	650	669	1680	888	2470	1080	219	416	737	56	1900
26	3890	656	643	2540	803	2010	975	187	364	1310	60	2160
27	3030	710	610	3180	744	1620	864	141	303	2220	75	2320
28	2310	762	573	3320	698	1400	800	118	224	2990	79	2350
29	1770	785	539	3190	655	1250	855	117	161	e2600	121	2270
30	1440	767	508	2960	---	1150	915	129	151	e2000	167	1970
31	1230	---	481	2950	---	1100	---	140	---	e1500	356	---
TOTAL	100350	28478	17306	34879	43420	37296	27670	8874	9113	15930	12176	34136
MEAN	3237	949	558	1125	1497	1203	922	286	304	514	393	1138
MAX	7650	1490	732	3320	3190	3270	1620	949	668	2990	1160	2350
MIN	1120	576	463	412	655	388	457	59	130	30	56	333
CFSM	5.40	1.58	.93	1.88	2.50	2.01	1.54	.48	.51	.86	.66	1.90
IN.	6.23	1.77	1.07	2.17	2.70	2.32	1.72	.55	.57	.99	.76	2.12

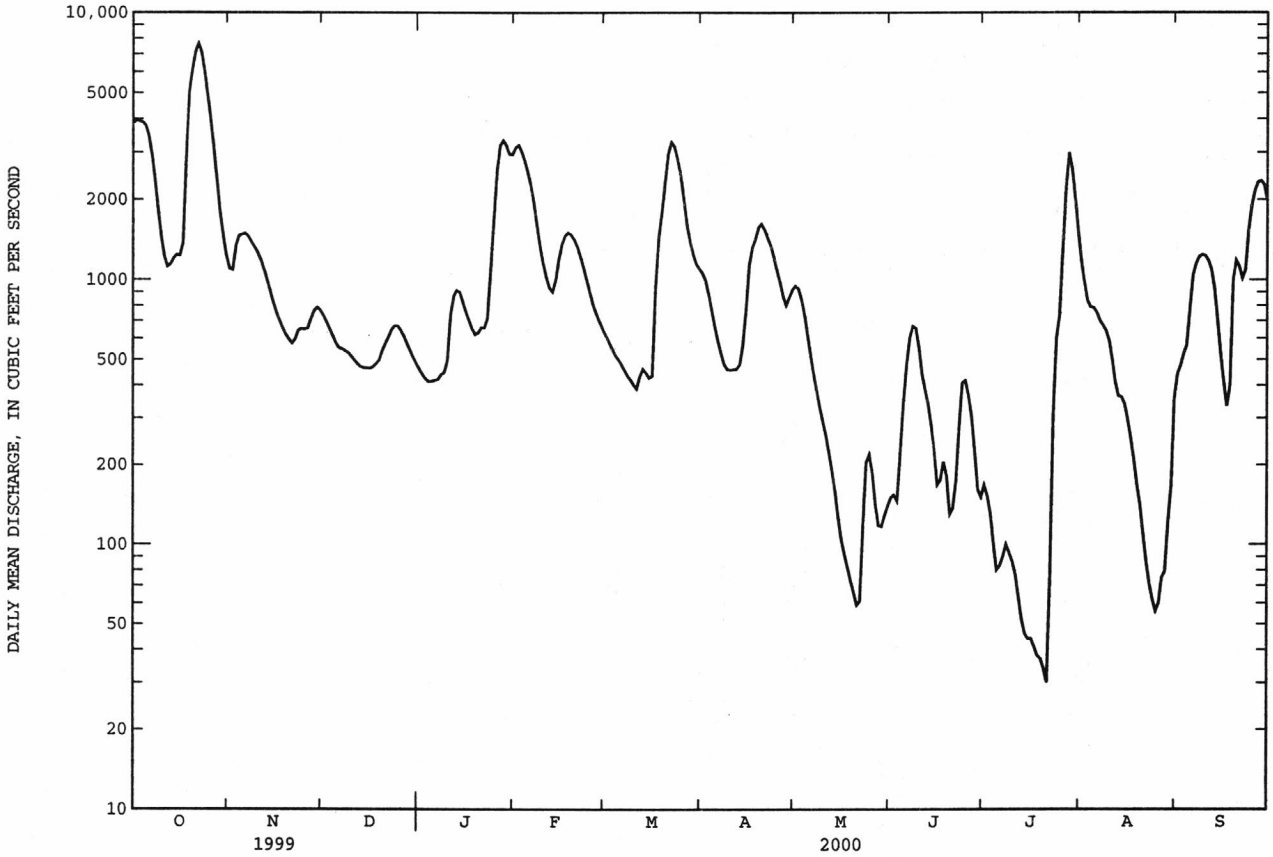
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	468	428	664	1082	1228	1227	840	468	392	548	670	699
MAX	3237	1852	2225	2548	4399	3506	2958	1901	1953	3922	2681	7329
(WY)	2000	1948	1949	1993	1998	1983	1973	1969	1961	1962	1955	1999
MIN	7.59	15.6	59.6	158	249	261	145	64.9	17.3	25.9	13.8	11.0
(WY)	1955	1955	1955	1955	1955	1955	1986	1995	1994	1954	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	529056		369628			
ANNUAL MEAN	1449		1010		725	
HIGHEST ANNUAL MEAN					1243	1973
LOWEST ANNUAL MEAN					279	1951
HIGHEST DAILY MEAN	29900	Sep 18	7650	Oct 22	29900	Sep 18 1999
LOWEST DAILY MEAN	20	Aug 11	30	Jul 21	5.3	Oct 10 1954
ANNUAL SEVEN-DAY MINIMUM	22	Aug 8	38	Jul 15	5.5	Oct 8 1954
INSTANTANEOUS PEAK FLOW			7720	Oct 22	30700	Sep 18 1999
INSTANTANEOUS PEAK STAGE			15.39	Oct 22	23.51	Sep 18 1999
INSTANTANEOUS LOW FLOW			28	Jul 21	5.3*	Oct 10 1954
ANNUAL RUNOFF (CFSM)	2.42		1.69		1.21	
ANNUAL RUNOFF (INCHES)	32.86		22.96		16.45	
10 PERCENT EXCEEDS	3070		2360		1710	
50 PERCENT EXCEEDS	636		656		405	
90 PERCENT EXCEEDS	58		118		58	

e Estimated.
* See REMARKS.

02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC--Continued



02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC

LOCATION.--Lat 34°35'55", long 77°52'32", Pender County, Hydrologic Unit 03030007, on left bank at State Highway 53 bridge, 3.9 mi above Holly Shelter Creek and 4.5 mi east of Burgaw.

DRAINAGE AREA.--920 mi^2.

PERIOD OF RECORD.--September 1999 to September 2000. Records for September 1999 are unpublished and available in the USGS District Office, Raleigh, NC.

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

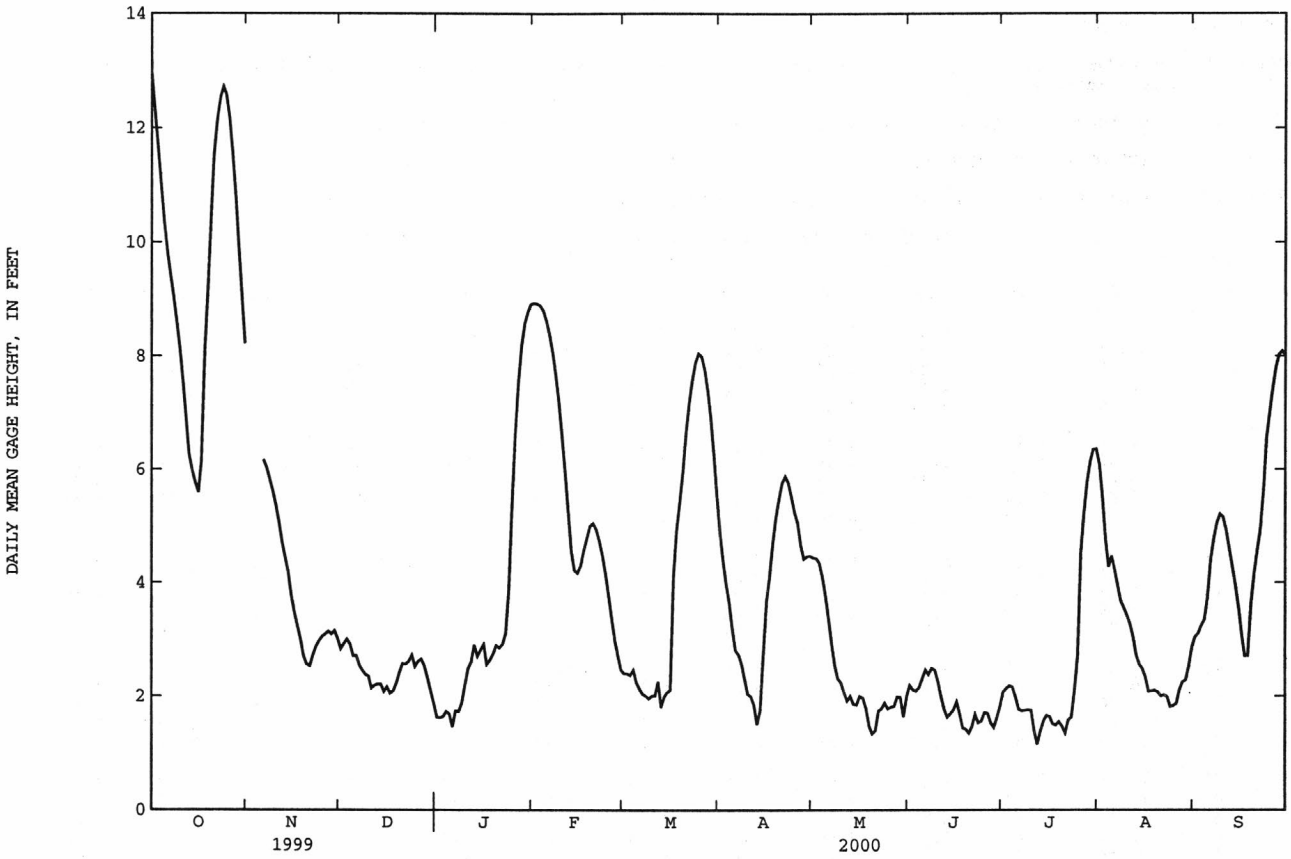
EXTREMES FOR PERIOD OF RECORD.--Maximum, 22.77 ft, Sept. 20, 1999; minimum, 0.35 ft, July 12, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum, 13.23 ft, Oct. 1; minimum 0.35 ft, July 12.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.94	---	2.83	1.63	8.93	2.40	4.88	4.44	2.19	2.07	6.08	3.04
2	12.31	---	2.92	1.62	8.92	2.40	4.39	4.43	2.11	2.13	5.49	3.10
3	11.66	---	3.00	1.64	8.89	2.37	3.97	4.35	2.09	2.18	4.76	3.24
4	10.99	---	2.91	1.73	8.80	2.46	3.64	4.10	2.15	2.16	4.28	3.34
5	10.38	---	2.71	1.69	8.62	2.24	3.18	3.78	2.31	1.98	4.47	3.73
6	9.85	6.17	2.71	1.46	8.37	2.13	2.81	3.37	2.46	1.77	4.22	4.38
7	9.42	6.03	2.54	1.74	8.06	2.04	2.73	2.93	2.38	1.74	3.94	4.77
8	9.04	5.83	2.45	1.73	7.66	2.01	2.57	2.55	2.49	1.75	3.67	5.05
9	8.63	5.62	2.38	1.88	7.18	1.96	2.30	2.31	2.46	1.76	3.55	5.21
10	8.15	5.37	2.35	2.19	6.60	2.01	2.04	2.24	2.26	1.75	3.42	5.16
11	7.55	5.07	2.14	2.48	5.96	2.01	2.00	2.07	2.00	1.39	3.27	4.93
12	6.88	4.72	2.19	2.60	5.26	2.26	1.85	1.92	1.77	1.15	3.04	4.61
13	6.27	4.45	2.21	2.90	4.57	1.81	1.51	2.00	1.63	1.38	2.72	4.29
14	5.99	4.18	2.21	2.70	4.22	1.99	1.75	1.86	1.69	1.56	2.56	3.96
15	5.77	3.77	2.08	2.81	4.17	2.07	2.73	1.85	1.76	1.66	2.48	3.57
16	5.59	3.47	2.16	2.91	4.29	2.11	3.66	2.00	1.90	1.64	2.33	3.10
17	6.15	3.23	2.05	2.56	4.56	4.12	4.12	1.97	1.68	1.51	2.08	2.71
18	8.06	3.00	2.09	2.63	4.78	4.94	4.69	1.79	1.44	1.49	2.09	2.71
19	9.19	2.70	2.23	2.74	5.00	5.43	5.15	1.48	1.42	1.55	2.10	3.62
20	10.49	2.56	2.42	2.89	5.05	5.97	5.48	1.34	1.35	1.47	2.07	4.16
21	11.55	2.53	2.57	2.85	4.94	6.66	5.76	1.39	1.47	1.35	2.00	4.57
22	12.14	2.72	2.56	2.91	4.74	7.19	5.88	1.74	1.68	1.58	2.02	4.95
23	12.53	2.87	2.61	3.10	4.49	7.59	5.76	1.78	1.53	1.63	1.99	5.62
24	12.72	2.97	2.72	3.88	4.16	7.89	5.51	1.88	1.56	2.11	1.81	6.55
25	12.58	3.05	2.52	5.42	3.77	8.05	5.24	1.78	1.71	2.70	1.83	7.00
26	12.17	3.09	2.61	6.63	3.37	8.00	5.05	1.81	1.70	4.53	1.87	7.44
27	11.55	3.14	2.65	7.51	2.99	7.77	4.66	1.82	1.53	5.23	2.11	7.81
28	10.78	3.09	2.53	8.18	2.71	7.40	4.42	1.99	1.45	5.78	2.25	8.03
29	9.95	3.15	2.32	8.57	2.47	6.90	4.46	1.98	1.62	6.13	2.28	8.09
30	9.08	3.01	2.09	8.77	---	6.24	4.47	1.64	1.82	6.35	2.52	8.02
31	8.22	---	1.87	8.91	---	5.53	---	1.99	---	6.36	2.86	---
MEAN	9.63	---	2.44	3.59	5.64	4.32	3.89	2.34	1.85	2.51	2.97	4.89
MAX	12.94	---	3.00	8.91	8.93	8.05	5.88	4.44	2.49	6.36	6.08	8.09
MIN	5.59	---	1.87	1.46	2.47	1.81	1.51	1.34	1.35	1.15	1.81	2.71

02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC--Continued



02109500 WACCAMAW RIVER AT FREELAND, NC

LOCATION.--Lat 34°05'43", long 78°32'55", Brunswick County, Hydrologic Unit 03040206, on left bank 150 ft downstream of New Britton bridge on State Highway 130, 1 mi southwest of Freeland, 7 mi downstream of Juniper Creek, and 117 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--680 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above sea level. 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. Minimum discharge for current water year also occurred July 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6680	3330	473	487	4690	700	1940	477	46	249	321	376
2	6260	3130	453	467	4530	656	1750	457	41	226	341	403
3	5940	2940	431	444	4240	605	1580	417	36	201	357	456
4	5680	2760	408	425	3940	565	1400	369	34	175	366	547
5	5530	2660	390	405	3640	535	1140	320	32	146	380	678
6	5320	2570	377	397	3370	512	966	275	37	128	420	966
7	5060	2440	369	392	3110	495	847	236	43	110	469	1330
8	4740	2290	363	392	2860	475	745	207	47	88	496	1700
9	4370	2140	357	390	2650	451	670	183	57	71	494	2040
10	3980	2000	353	394	2450	426	612	164	135	58	487	2260
11	3610	1860	345	415	2260	405	568	147	271	46	485	2350
12	3430	1730	337	456	2090	403	524	130	420	45	494	2300
13	3140	1610	329	491	1930	440	476	113	543	44	509	2160
14	2920	1490	321	493	1820	451	429	96	622	39	519	1990
15	2760	1380	315	460	1730	453	404	81	624	39	526	1800
16	2630	1180	307	428	1650	442	412	70	610	37	518	1600
17	3110	1020	301	403	1570	487	421	60	562	44	499	1410
18	4180	924	293	387	1490	613	432	52	490	55	467	1340
19	5970	852	300	376	1400	765	449	45	409	48	428	1510
20	8490	779	356	372	1320	1020	475	40	329	39	391	1470
21	10800	716	419	378	1140	1570	494	36	283	33	354	1480
22	11700	661	463	379	1070	2160	491	32	293	31	320	1490
23	11500	623	493	397	1030	2620	468	31	337	33	286	2080
24	10400	588	512	484	987	2910	441	32	374	59	257	3010
25	8930	561	517	e780	945	3140	435	31	391	116	233	4080
26	7560	539	521	1300	901	3210	443	34	368	200	221	4410
27	6390	521	521	1910	850	3090	457	52	328	270	207	4310
28	5450	506	523	2660	800	2860	462	59	294	313	211	4170
29	4720	497	522	3500	751	2600	472	58	267	338	220	4000
30	4160	487	516	4220	---	2350	481	53	252	330	262	3700
31	3710	---	505	4620	---	2130	---	49	---	316	337	---
TOTAL	179120	44784	12690	29102	61214	39539	20884	4406	8575	3927	11875	61416
MEAN	5778	1493	409	939	2111	1275	696	142	286	127	383	2047
MAX	11700	3330	523	4620	4690	3210	1940	477	624	338	526	4410
MIN	2630	487	293	372	751	403	404	31	32	31	207	376
CFSM	8.50	2.20	.60	1.38	3.10	1.88	1.02	.21	.42	.19	.56	3.01
IN.	9.80	2.45	.69	1.59	3.35	2.16	1.14	.24	.47	.21	.65	3.36

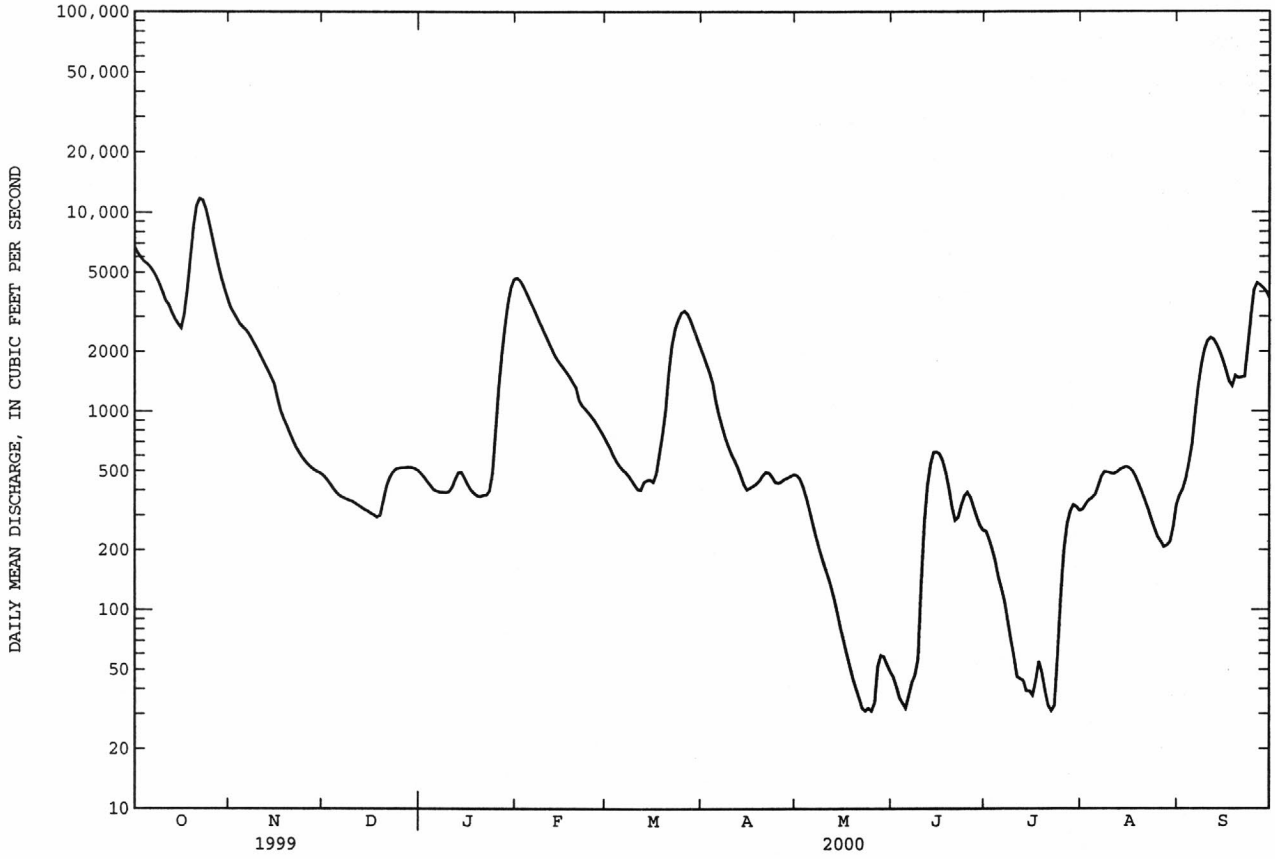
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	525	353	488	1061	1405	1437	968	382	312	516	648	854
MAX	5778	2332	3080	3722	5574	5319	2895	3586	1474	3040	2740	8449
(WY)	2000	1978	1949	1993	1998	1983	1973	1999	1969	1961	1981	1999
MIN	1.14	.54	3.53	20.6	44.6	219	120	17.5	5.51	5.72	7.59	.31
(WY)	1941	1955	1955	1955	1941	1955	1967	1995	1952	1952	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	794017		477532			
ANNUAL MEAN	2175		1305		743	
HIGHEST ANNUAL MEAN					1572	1999
LOWEST ANNUAL MEAN					230	1941
HIGHEST DAILY MEAN	30600	Sep 21	11700	Oct 22	30600	Sep 21 1999
LOWEST DAILY MEAN	49	Aug 18	31	May 23	.10	Aug 30 1954
ANNUAL SEVEN-DAY MINIMUM	54	Aug 13	34	May 20	.10	Oct 4 1954
INSTANTANEOUS PEAK FLOW			12000	Oct 22	31200	Sep 21 1999
INSTANTANEOUS PEAK STAGE			16.99	Oct 22	19.30	Sep 21 1999
INSTANTANEOUS LOW FLOW			29*	May 25	.10*	Aug 30 1954
ANNUAL RUNOFF (CFSM)	3.20		1.92		1.09	
ANNUAL RUNOFF (INCHES)	43.44		26.12		14.85	
10 PERCENT EXCEEDS	5490		3660		1930	
50 PERCENT EXCEEDS	668		488		365	
90 PERCENT EXCEEDS	180		59		28	

e Estimated.
* See REMARKS.

02109500 WACCAMAW RIVER AT FREELAND, NC--Continued



02111000 YADKIN RIVER AT PATTERSON, NC

LOCATION.--Lat 35°59'29", long 81°33'30", Caldwell County, Hydrologic Unit 03040101, on left bank 200 ft upstream from bridge on State Highway 268, 0.4 mi upstream from Warrior Creek, 0.5 mi south of Patterson, 2.0 mi downstream of Walnut Branch, and at mile 416.

DRAINAGE AREA.--28.8 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge, for period of record, from rating curve extended above 1,400 ft^3/s on basis of computation of peak flow over dam 1 mi upstream at gage heights 4.58, 6.60, 7.70, and 12.70 ft. Minimum discharge for current water year also occurred Aug. 28, 29, 30, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	13	26	23	e18	25	32	40	20	21	18	30
2	18	52	24	22	e18	24	33	38	19	19	43	19
3	16	30	23	22	e18	23	62	37	18	17	25	19
4	18	23	23	25	e18	23	102	36	20	16	23	40
5	19	20	22	23	20	22	69	33	22	15	21	44
6	16	19	25	21	20	22	57	33	24	15	18	23
7	14	17	22	21	21	21	50	44	19	13	21	19
8	12	16	21	21	22	21	47	33	18	11	26	17
9	12	15	20	e60	23	21	42	31	19	12	19	15
10	31	15	27	e180	25	20	39	29	17	12	26	14
11	32	15	25	55	28	39	37	28	16	11	19	13
12	22	18	23	37	80	57	36	27	16	17	16	12
13	19	16	27	32	66	36	37	26	15	23	15	12
14	19	15	117	27	111	32	36	25	15	21	13	11
15	17	14	63	25	76	30	64	24	e16	16	12	11
16	15	14	46	24	57	44	131	24	e18	14	12	10
17	14	13	38	23	46	51	91	24	e16	12	11	10
18	13	13	35	e22	41	40	95	24	e14	11	10	10
19	13	13	32	e22	40	37	74	23	e16	11	10	12
20	22	13	33	e22	35	208	63	28	e14	10	9.8	13
21	22	13	31	e21	32	141	57	26	14	9.9	10	12
22	17	13	32	e21	30	92	51	52	14	9.5	10	12
23	15	13	29	e20	29	71	47	26	14	9.7	9.9	13
24	14	13	28	e20	27	59	45	33	13	45	9.6	13
25	13	27	26	e20	26	53	57	30	21	20	9.3	25
26	13	171	25	e19	25	47	50	25	23	17	9.2	20
27	13	68	25	e19	29	44	45	24	24	16	8.8	16
28	13	43	24	e18	30	42	52	24	47	19	8.6	14
29	13	33	23	e18	25	37	47	23	58	16	8.6	12
30	13	29	23	e18	---	38	43	22	32	16	8.6	12
31	13	---	23	e18	---	34	---	21	---	25	9.3	---
TOTAL	521	787	961	919	1036	1454	1691	913	612	500.1	469.7	503
MEAN	16.8	26.2	31.0	29.6	35.7	46.9	56.4	29.5	20.4	16.1	15.2	16.8
MAX	32	171	117	180	111	208	131	52	58	45	43	44
MIN	12	13	20	18	18	20	32	21	13	9.5	8.6	10
CFSM	.58	.91	1.08	1.03	1.24	1.63	1.96	1.02	.71	.56	.53	.58
IN.	.67	1.02	1.24	1.19	1.34	1.88	2.18	1.18	.79	.65	.61	.65

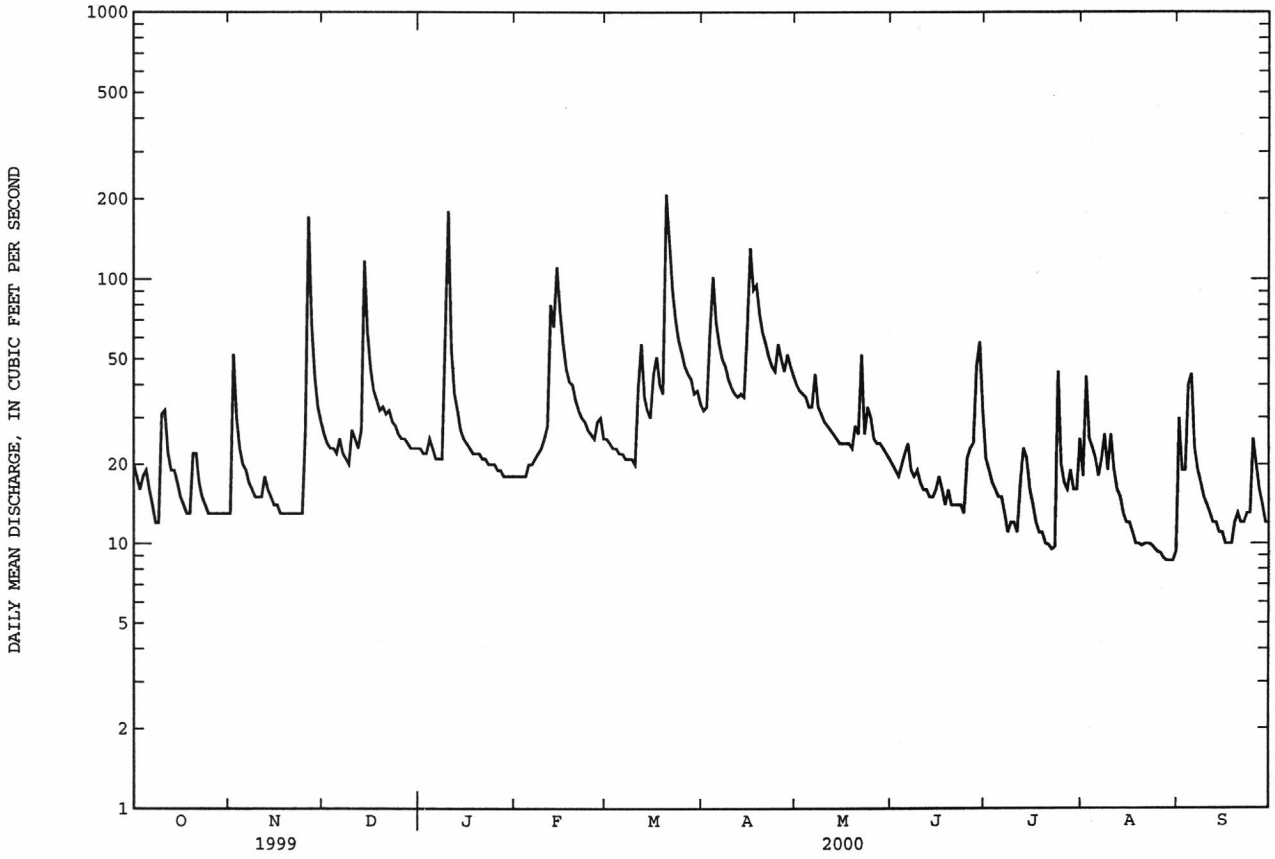
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	36.4	41.1	45.3	51.7	61.9	73.4	69.7	54.6	48.2	39.2	44.1	35.5
MAX	149	140	98.8	132	143	160	164	125	122	98.9	194	136
(WY)	1991	1978	1974	1946	1960	1993	1980	1973	1992	1941	1940	1979
MIN	8.45	9.07	11.8	11.4	27.0	23.7	26.5	20.5	13.0	9.04	9.05	6.95
(WY)	1955	1982	1956	1956	1988	1988	1981	1940	1956	1988	1988	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	11342.8		10366.8			
ANNUAL MEAN	31.1		28.3		50.0	
HIGHEST ANNUAL MEAN					78.3	1973
LOWEST ANNUAL MEAN					21.5	1956
HIGHEST DAILY MEAN	214	Jan 24	208	Mar 20	2130	Aug 13 1940
LOWEST DAILY MEAN	8.3	Sep 26	8.6	Aug 28	5.3	Sep 30 1954
ANNUAL SEVEN-DAY MINIMUM	8.8	Sep 15	8.9	Aug 25	5.7	Sep 25 1954
INSTANTANEOUS PEAK FLOW			378	Mar 20	16200*	Aug 13 1940
INSTANTANEOUS PEAK STAGE			2.81	Mar 20	12.70	Aug 13 1940
INSTANTANEOUS LOW FLOW			8.6*	Aug 27	3.0	May 15 1940
ANNUAL RUNOFF (CFSM)	1.08		.98		1.74	
ANNUAL RUNOFF (INCHES)	14.65		13.39		23.60	
10 PERCENT EXCEEDS	54		51		88	
50 PERCENT EXCEEDS	26		22		37	
90 PERCENT EXCEEDS	13		12		17	

e Estimated.
* See REMARKS.

02111000 YADKIN RIVER AT PATTERSON, NC--Continued



02111000 YADKIN RIVER AT PATTERSON, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1999 to September 2000.

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

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.16	.00	.00	.11	.00	.00	.00	.00	.00	.03	.75
2	.00	.86	.00	.00	.00	.00	.25	.00	.00	.00	.35	.51
3	.00	.00	.00	.00	.00	.00	1.33	.00	.02	.00	.41	.16
4	.56	.00	.00	.54	.00	.00	.25	.00	.00	.01	.32	.24
5	.00	.00	.15	.00	.00	.00	.00	.00	.44	.12	.00	.03
6	.00	.00	.14	.00	.00	.00	.00	.00	.01	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	1.55	.00
8	.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.25	.00
9	.21	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.00
10	.92	.00	.41	---	.00	.00	.00	.00	.00	.02	.73	.00
11	.04	.09	.00	.00	.00	1.61	.00	.00	.00	.14	.00	.00
12	.00	.00	.00	.00	1.28	.00	.00	.00	.00	1.47	.00	.00
13	.09	.00	.93	.10	.09	.00	.34	.00	.00	.40	.00	.00
14	.00	.00	.65	.00	.62	.00	.46	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	1.02	.00	---	.05	.00	.00
16	.00	.00	.00	.00	.00	1.02	.00	.00	---	.00	.00	.00
17	.00	.00	.00	.00	.01	.05	.42	.00	---	.00	.00	.00
18	.00	.00	.00	.00	.08	.00	.00	.00	---	.00	.00	.32
19	.00	.00	.00	.35	.08	.00	.00	.00	---	.02	.00	.27
20	1.14	.00	.20	.28	.00	2.03	.00	1.17	---	.00	.01	.00
21	.01	.00	.19	.00	.00	.00	.00	.48	.00	.00	.02	.15
22	.00	.00	.01	.00	.00	.00	.00	.01	.06	.00	.00	.23
23	.00	.00	.00	.00	.01	.00	.00	.42	.00	.45	.00	.42
24	.00	.02	.00	.13	.00	.00	.29	.28	.00	1.63	.03	.00
25	.00	1.35	.00	.01	.00	.02	.33	.05	.96	.00	.02	2.15
26	.00	1.34	.00	.00	.00	.00	.01	.00	.04	.00	.00	.00
27	.00	.00	.00	.00	.40	.04	.00	.00	.29	.02	.00	.00
28	.00	.00	.00	.00	.00	.00	.64	.02	1.89	.00	.00	.00
29	.00	.00	.00	.00	.00	.09	.00	.02	.38	.48	.00	.00
30	.00	.93	.00	.00	---	.07	.00	.00	.00	.59	.04	.00
31	.00	---	.00	.03	---	.00	---	.00	---	1.05	.46	---
TOTAL	2.97	4.75	2.68	---	2.68	4.93	5.49	2.45	---	6.65	4.22	5.23

361210081333001 TRIPLETT RAINGAGE

LOCATION.--Lat 36°12'10", long 81°33'30", Watauga County, Hydrologic Unit 03040101, 60 ft west of Secondary Road 1570, 0.3 mi north of Triplett, and 1.7 mi south of Blue Ridge Parkway.

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

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

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.64	.73
2	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.62	.14
3	.00	.00	.00	.00	.06	.00	1.00	.00	.00	.00	.29	.09
4	.18	.00	.00	.19	.00	.00	.01	.00	.01	.08	.02	.05
5	.00	.00	.19	.00	.00	.00	.00	.00	.24	.21	.00	.16
6	.00	.00	.17	.00	.00	.00	.00	.00	.21	.10	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.28	.00
9	.27	.00	.00	.48	.00	.00	.04	.00	.00	.00	.00	.00
10	.74	.00	.34	.61	.00	.00	.00	.00	.00	.00	.22	.00
11	.00	.00	.00	.00	.00	1.10	.02	.00	.00	.07	.00	.00
12	.00	.00	.00	.00	.74	.00	.00	.00	.00	.38	.00	.00
13	.04	.00	1.01	.08	.05	.00	.22	.00	.00	.06	.00	.00
14	.00	.00	.60	.00	.38	.00	.23	.00	.00	.04	.00	.00
15	.00	.00	.00	.00	.00	.00	.64	.00	.12	.02	.00	.00
16	.00	.00	.00	.01	.00	.36	.00	.00	.00	.01	.00	.00
17	.00	.90	.00	.00	.00	.01	.56	.00	.06	.00	.00	.00
18	.00	.00	.00	.07	.07	.00	.00	.00	.27	.00	.06	.28
19	.00	.00	.06	.00	.18	.04	.00	.00	.00	.16	.00	.22
20	.00	.11	.23	.03	.00	.99	.00	.02	.09	.00	.03	.00
21	.00	.00	.14	.00	.00	.00	.04	.59	.29	.00	.02	.10
22	.00	.01	.00	.00	.00	.00	.00	.00	.02	.11	.00	.09
23	.00	.01	.00	.00	.00	.00	.00	.16	.00	.26	.00	.04
24	.00	.01	.00	.09	.00	.00	.26	.15	.00	.41	.16	.00
25	.00	1.80	.00	.00	.00	.00	.08	.10	.72	.00	.00	.46
26	.00	1.10	.00	.00	.00	.00	.00	.00	1.10	.00	.00	.00
27	.00	.00	.00	.00	.36	.13	.00	.05	.30	.08	.00	.00
28	.00	.00	.00	.01	.00	.01	.22	.05	.36	.00	.00	.00
29	.00	.00	.00	.00	.00	.01	.00	.01	.18	.20	.00	.00
30	.00	.00	.00	.01	---	.06	.00	.00	.00	.18	.08	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.17	.56	---
TOTAL	1.23	3.94	2.74	1.58	1.84	2.71	3.51	1.13	3.97	2.54	2.98	2.36

02111180 ELK CREEK AT ELKVILLE, NC

LOCATION.--Lat 36°04'16", long 81°24'13", Wilkes County, Hydrologic Unit 03040101, on left bank 700 ft upstream from bridge on State Highway 268 in Elkville, and 3,400 ft upstream from mouth.

DRAINAGE AREA.--48.1 mi^2.

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 sea level. Satellite telemetry at station.

REMARKS --Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 3,200 ft^3/s on basis of contracted-opening computation. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Sept. 17, 18.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 13, 1940, reached a stage of about 22 ft; discharge, about 70,000 ft^3/s, on basis of several contracted-opening and slope-area measurements. A discharge of 6.0 ft^3/s was measured Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	26	49	47	e38	49	57	70	34	30	34	44
2	32	76	44	46	e38	47	56	66	33	27	90	32
3	28	66	42	45	e38	47	84	62	32	26	66	30
4	30	45	40	48	39	45	146	59	32	37	52	26
5	32	38	38	49	39	43	115	56	43	27	47	49
6	27	34	47	44	38	43	96	57	46	29	42	27
7	26	32	42	43	40	42	85	56	34	26	32	21
8	25	30	39	36	42	41	79	50	29	25	26	19
9	25	28	37	44	41	41	74	48	28	25	28	18
10	53	27	43	189	44	41	68	45	26	21	53	17
11	59	26	49	110	51	69	64	43	24	20	31	16
12	41	27	44	75	123	109	61	42	23	37	25	16
13	35	26	46	64	139	72	62	42	23	52	22	16
14	33	24	221	56	204	62	63	39	22	31	20	15
15	31	23	145	51	160	58	87	37	22	29	17	15
16	29	22	100	49	116	71	165	36	23	25	16	14
17	28	22	80	48	96	100	137	35	24	22	16	14
18	27	22	70	50	93	77	147	36	23	21	16	14
19	25	22	64	47	90	71	117	35	26	20	16	22
20	39	e22	65	e47	76	461	99	37	26	21	16	19
21	43	e22	61	e46	69	323	90	50	26	20	17	16
22	31	23	65	e45	66	193	84	80	27	20	17	16
23	28	23	59	e44	63	143	76	42	25	25	16	17
24	27	23	57	e43	61	114	72	45	22	35	16	17
25	26	37	55	e42	59	97	93	44	22	34	16	20
26	26	346	54	e41	55	83	91	40	29	28	16	31
27	26	142	54	e40	52	76	80	38	42	25	15	19
28	26	86	53	e40	57	73	88	38	47	27	15	17
29	26	65	52	e39	50	66	83	36	68	26	14	16
30	26	56	50	e39	---	64	75	33	42	33	14	16
31	26	---	49	e38	---	61	---	33	---	54	20	---
TOTAL	977	1461	1914	1645	2077	2882	2694	1430	923	878	841	629
MEAN	31.5	48.7	61.7	53.1	71.6	93.0	89.8	46.1	30.8	28.3	27.1	21.0
MAX	59	346	221	189	204	461	165	80	68	54	90	49
MIN	25	22	37	36	38	41	56	33	22	20	14	14
CFSM	.66	1.01	1.28	1.10	1.49	1.93	1.87	.96	.64	.59	.56	.44
IN.	.76	1.13	1.48	1.27	1.61	2.23	2.08	1.11	.71	.68	.65	.49

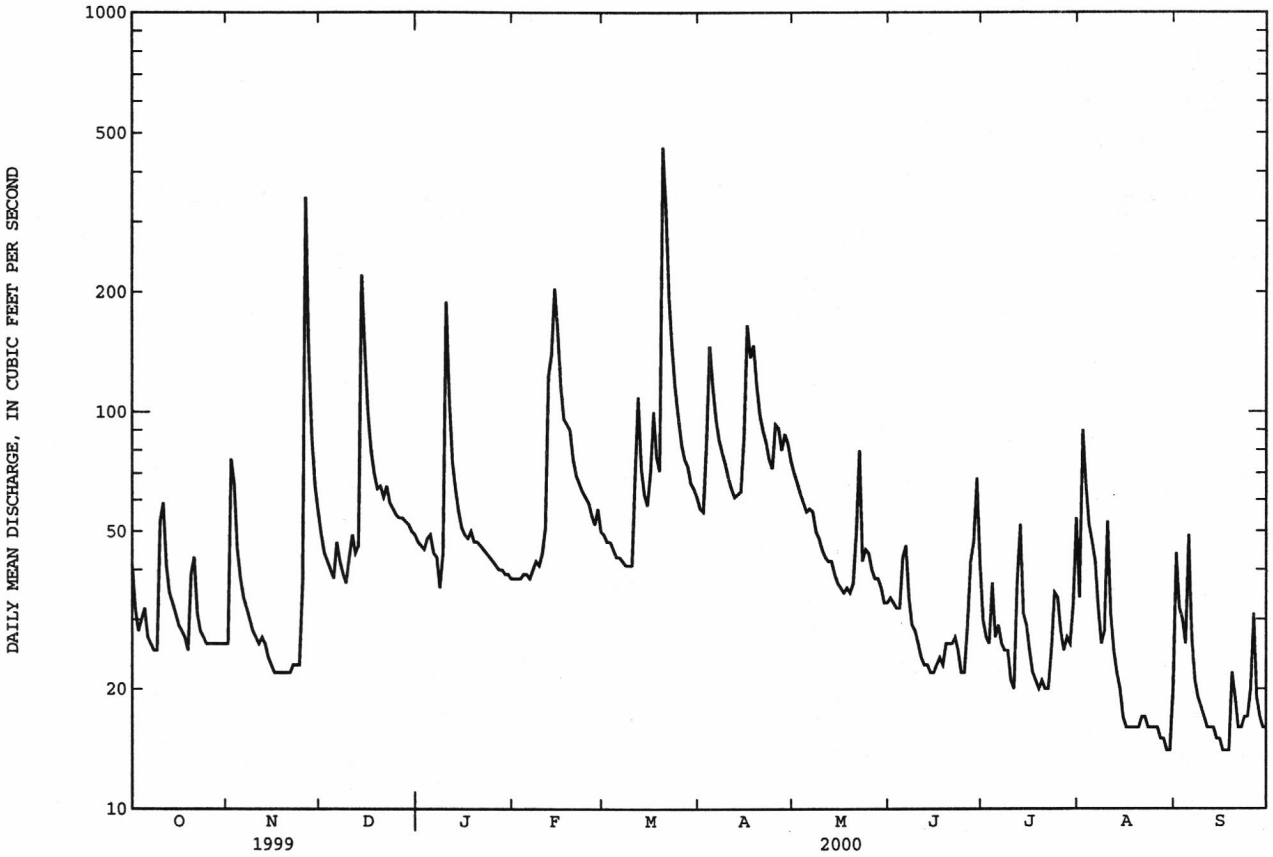
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	76.5	90.2	88.0	107	123	151	144	113	100	69.0	80.1	63.4
MAX	298	365	193	323	250	317	379	291	226	185	384	257
(WY)	1991	1978	1974	1995	1966	1993	1980	1973	1992	1989	1994	1979
MIN	19.8	19.8	24.7	22.5	48.2	47.9	51.5	37.3	21.7	17.6	18.9	21.0
(WY)	1982	1982	1989	1981	1989	1988	1986	1988	1988	1988	1988	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	20454		18351			
ANNUAL MEAN	56.0		50.1		100	
HIGHEST ANNUAL MEAN					154	1973
LOWEST ANNUAL MEAN					43.7	1988
HIGHEST DAILY MEAN	499	Jan 24	461	Mar 20	5890	Aug 17 1994
LOWEST DAILY MEAN	17	Aug 19	14	Aug 29	12	Jul 18 1988
ANNUAL SEVEN-DAY MINIMUM	18	Sep 12	15	Sep 12	14	Jul 12 1988
INSTANTANEOUS PEAK FLOW			971	Mar 20	18700*	Aug 17 1994
INSTANTANEOUS PEAK STAGE			2.87	Mar 20	12.02	Aug 17 1994
INSTANTANEOUS LOW FLOW			14*	Sep 16	11*	Jan 5 1981
ANNUAL RUNOFF (CFSM)	1.17		1.04		2.08	
ANNUAL RUNOFF (INCHES)	15.82		14.19		28.32	
10 PERCENT EXCEEDS	95		87		171	
50 PERCENT EXCEEDS	48		40		70	
90 PERCENT EXCEEDS	22		20		29	

e Estimated.
* See REMARKS.

02111180 ELK CREEK AT ELKVILLE, NC--Continued



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

LOCATION.--Lat 36°08'04", long 80°13'30", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--367 mi^2.

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 sea level. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

REMARKS.--Records good. Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1,075.0 ft is 6,664,680,000 ft^3 of which 4,878,720,000 ft^3 is controlled flood storage.

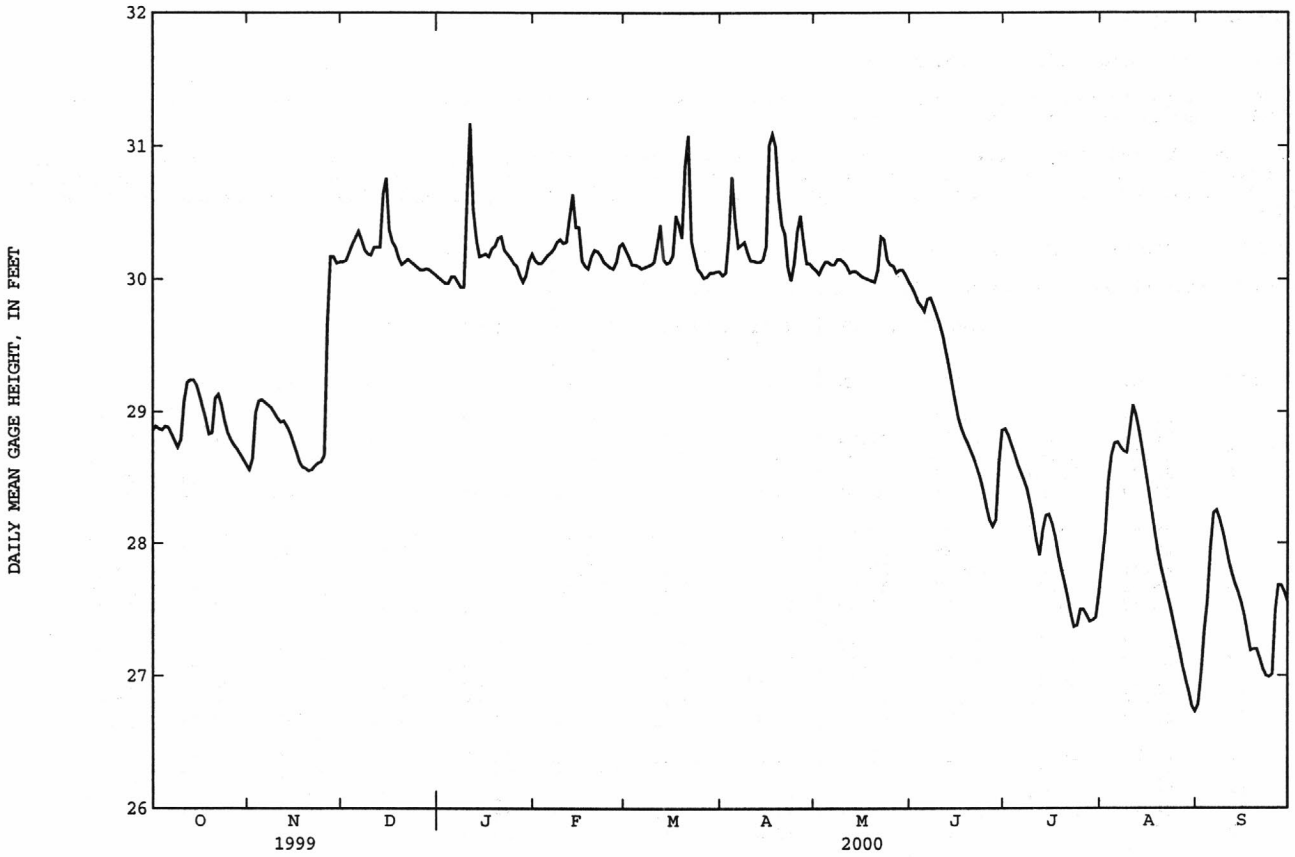
EXTREMES FOR PERIOD OF RECORD.--Maximum, 61.20 ft, Nov. 7, 1977; minimum, 19.85 ft, Nov. 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum, 31.58 ft, Mar. 20; minimum, 26.12 ft, Aug. 31.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.86	28.56	30.13	30.01	30.14	30.22	30.03	30.07	29.94	28.87	27.86	26.78
2	28.89	28.64	30.14	29.99	30.12	30.17	30.05	30.04	29.89	28.82	28.08	27.01
3	28.87	28.99	30.20	29.97	30.12	30.11	30.32	30.09	29.83	28.75	28.47	27.34
4	28.86	29.08	30.26	29.97	30.15	30.11	30.77	30.13	29.80	28.68	28.67	27.57
5	28.89	29.09	30.31	30.02	30.18	30.10	30.44	30.13	29.76	28.60	28.76	27.97
6	28.88	29.07	30.36	30.02	30.20	30.08	30.24	30.11	29.85	28.54	28.77	28.23
7	28.83	29.05	30.29	29.98	30.23	30.09	30.26	30.11	29.86	28.48	28.73	28.25
8	28.78	29.03	30.22	29.94	30.28	30.10	30.28	30.15	29.80	28.41	28.70	28.18
9	28.73	28.99	30.19	29.94	30.30	30.11	30.20	30.15	29.73	28.30	28.69	28.09
10	28.79	28.95	30.18	30.60	30.27	30.13	30.14	30.13	29.66	28.17	28.87	27.98
11	29.08	28.92	30.24	31.17	30.28	30.26	30.14	30.10	29.57	28.02	29.05	27.86
12	29.22	28.93	30.24	30.53	30.46	30.41	30.13	30.05	29.45	27.91	28.97	27.77
13	29.24	28.89	30.24	30.30	30.64	30.15	30.13	30.06	29.33	28.10	28.85	27.69
14	29.24	28.84	30.64	30.17	30.39	30.12	30.15	30.06	29.20	28.21	28.71	27.63
15	29.20	28.77	30.76	30.18	30.39	30.13	30.25	30.04	29.07	28.22	28.56	27.55
16	29.12	28.70	30.37	30.19	30.14	30.18	31.01	30.02	28.95	28.15	28.41	27.45
17	29.03	28.62	30.28	30.17	30.10	30.48	31.09	30.01	28.87	28.05	28.25	27.32
18	28.94	28.58	30.24	30.23	30.08	30.41	31.00	30.00	28.81	27.91	28.09	27.19
19	28.83	28.57	30.16	30.25	30.17	30.31	30.63	29.99	28.76	27.80	27.94	27.20
20	28.84	28.55	30.11	30.31	30.22	30.85	30.41	29.98	28.70	27.70	27.82	27.20
21	29.10	28.56	30.13	30.32	30.21	31.08	30.34	30.07	28.64	27.59	27.72	27.13
22	29.13	28.59	30.15	30.22	30.18	30.29	30.09	30.32	28.57	27.47	27.62	27.05
23	29.05	28.61	30.13	30.19	30.13	30.18	29.99	30.30	28.50	27.37	27.52	27.00
24	28.93	28.62	30.11	30.16	30.11	30.08	30.12	30.15	28.40	27.38	27.41	26.99
25	28.84	28.67	30.09	30.12	30.09	30.05	30.36	30.11	28.28	27.50	27.30	27.01
26	28.79	29.67	30.07	30.10	30.08	30.01	30.48	30.10	28.18	27.50	27.19	27.49
27	28.75	30.17	30.07	30.03	30.13	30.02	30.28	30.05	28.13	27.46	27.07	27.68
28	28.72	30.17	30.08	29.98	30.25	30.05	30.12	30.07	28.18	27.41	26.97	27.68
29	28.68	30.12	30.07	30.03	30.27	30.05	30.12	30.07	28.61	27.42	26.88	27.63
30	28.64	30.13	30.05	30.14	---	30.06	30.09	30.03	28.86	27.44	26.77	27.56
31	28.60	---	30.03	30.19	---	30.06	---	29.98	---	27.63	26.73	---
MEAN	28.91	29.00	30.21	30.17	30.22	30.21	30.32	30.09	29.11	28.00	28.05	27.52
MAX	29.24	30.17	30.76	31.17	30.64	31.08	31.09	30.32	29.94	28.87	29.05	28.25
MIN	28.60	28.55	30.03	29.94	30.08	30.01	29.99	29.98	28.13	27.37	26.73	26.78

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



361554081191701 WILBAR RAINGAGE

LOCATION.--Lat 36°15'54", long 81°19'17", 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 site.

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.21	.00	.00	.09	.00	.00	.00	.00	.00	.93	.01
2	.00	1.34	.00	.00	.20	.00	.16	.00	.00	.00	.03	.26
3	.00	.00	.18	.00	.28	.00	.91	.00	.00	.00	.23	.12
4	.12	.00	.00	.31	.00	.00	.24	.00	.04	.00	.02	1.23
5	.00	.00	.15	.00	.00	.00	.00	.00	.51	.15	.00	.32
6	.00	.00	.20	.00	.00	.00	.00	.00	.01	.02	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00	.26	.00
9	.19	.00	.00	.59	.00	.00	.00	.00	.00	.00	.00	.00
10	.99	.00	.29	.84	.00	.00	.00	.00	.00	.00	.43	.00
11	.00	.51	.00	.00	.00	1.01	.00	.00	.00	.04	.00	.00
12	.00	.01	.00	.00	.52	.00	.00	.00	.00	.56	.00	.00
13	.01	.00	.87	.10	.11	.00	.12	.00	.00	.30	.00	.50
14	.00	.00	.47	.00	.56	.00	.00	.00	.00	.05	.00	.37
15	.00	.00	.00	.00	.00	.00	1.09	.00	.02	.07	.00	.00
16	.00	.00	.00	.00	.00	.39	.00	.00	.03	.13	.00	.00
17	.00	.00	.00	.00	.01	.07	.39	.00	.06	.00	.00	.00
18	.00	.00	.00	.00	.16	.00	.00	.00	.03	.00	.00	.37
19	.00	.00	.12	.07	.07	.03	.00	.01	.00	.05	.00	.30
20	.50	.03	.25	.00	.00	1.41	.00	.04	.00	.00	.00	.00
21	.00	.33	.25	.00	.00	.00	.05	.19	.05	.00	.00	.17
22	.00	.02	.00	.00	.00	.00	.00	.00	.02	.09	.00	.07
23	.02	.00	.00	.00	.00	.00	.00	.04	.00	.16	.00	.02
24	.00	.00	.00	.08	.00	.00	.23	.02	.00	1.12	.29	.00
25	.00	1.85	.00	.00	.00	.00	.30	.11	.07	.05	.00	.51
26	.00	1.48	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
27	.00	.00	.00	.00	.20	.13	.00	.02	.30	.29	.00	.00
28	.00	.00	.00	.11	.00	.02	.28	.04	.36	.08	.09	.00
29	.00	.00	.00	.00	.00	.00	.00	.01	.45	.00	.00	.00
30	.00	.00	.00	.00	---	.07	.00	.00	.00	.05	.02	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.72	.31	---
TOTAL	1.83	5.78	2.78	2.10	2.20	3.13	3.88	0.48	1.99	3.93	2.61	4.25

USGS water-quality monitor at the New River channel marker 50.

02111500 REDDIES RIVER AT NORTH WILKESBORO, NC

LOCATION.--Lat 36°10'29", long 81°10'09", Wilkes County, Hydrologic Unit 03040101, on left bank 550 ft upstream from bridge on Secondary Road 1517, 1.4 mi upstream from North Wilkesboro municipal dam, 1.2 mi northwest of North Wilkesboro, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--89.2 mi^2.

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

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

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

REMARKS.--Records good except those those for estimated daily discharges, which are fair. Slight diurnal fluctuation at low flow during growing season. Maximum discharge for period of record, from rating curve extended above 5,600 ft^3/s on basis of computation of peak flow over dam; gage height: 22.02 ft. Minimum discharge for current water year also occurred Sept. 17, 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	49	77	62	e71	76	88	100	53	46	55	42
2	57	141	73	61	e71	74	89	96	52	43	157	48
3	53	111	70	62	e71	72	133	93	58	41	85	52
4	53	70	68	69	71	71	184	90	61	41	75	52
5	54	62	66	69	71	70	140	88	63	42	57	93
6	50	59	76	61	69	69	121	85	77	50	50	54
7	48	57	67	60	72	68	111	82	e58	47	46	45
8	48	56	64	59	76	68	106	79	e52	40	43	41
9	48	55	63	76	76	67	99	77	e50	41	47	40
10	84	54	71	317	79	66	93	75	e48	38	122	38
11	94	69	71	162	87	108	91	72	e47	35	54	36
12	64	73	64	113	152	150	89	71	e46	38	44	36
13	58	60	67	100	146	99	92	71	e45	75	41	35
14	56	57	201	86	224	87	97	69	e44	53	40	42
15	52	55	129	80	169	82	137	64	44	47	38	42
16	51	53	99	79	134	93	246	63	46	44	37	34
17	51	52	86	76	115	124	180	63	46	40	36	33
18	50	52	80	e76	110	96	225	63	49	37	36	33
19	48	52	76	e76	110	90	157	62	48	36	37	58
20	66	52	84	e75	99	454	136	61	50	37	36	42
21	69	55	81	e75	92	342	127	67	49	34	38	38
22	55	67	86	e75	88	198	116	77	51	35	36	38
23	52	57	78	e74	85	156	108	62	45	41	35	39
24	51	55	75	e74	83	136	105	64	41	88	37	38
25	50	77	71	e74	81	124	142	63	40	60	42	44
26	49	468	71	e73	79	114	126	63	44	50	36	77
27	49	177	69	e73	80	108	112	59	44	45	34	43
28	49	118	66	e72	85	105	120	58	57	59	36	39
29	48	95	65	e72	77	97	117	57	75	44	35	37
30	48	83	63	e72	---	97	107	56	57	51	34	38
31	49	---	63	e72	---	92	---	54	---	80	37	---
TOTAL	1721	2541	2440	2625	2823	3653	3794	2204	1540	1458	1536	1327
MEAN	55.5	84.7	78.7	84.7	97.3	118	126	71.1	51.3	47.0	49.5	44.2
MAX	94	468	201	317	224	454	246	100	77	88	157	93
MIN	48	49	63	59	69	66	88	54	40	34	34	33
CFSM	.62	.95	.88	.95	1.09	1.32	1.42	.80	.58	.53	.56	.50
IN.	.72	1.06	1.02	1.09	1.18	1.52	1.58	.92	.64	.61	.64	.55

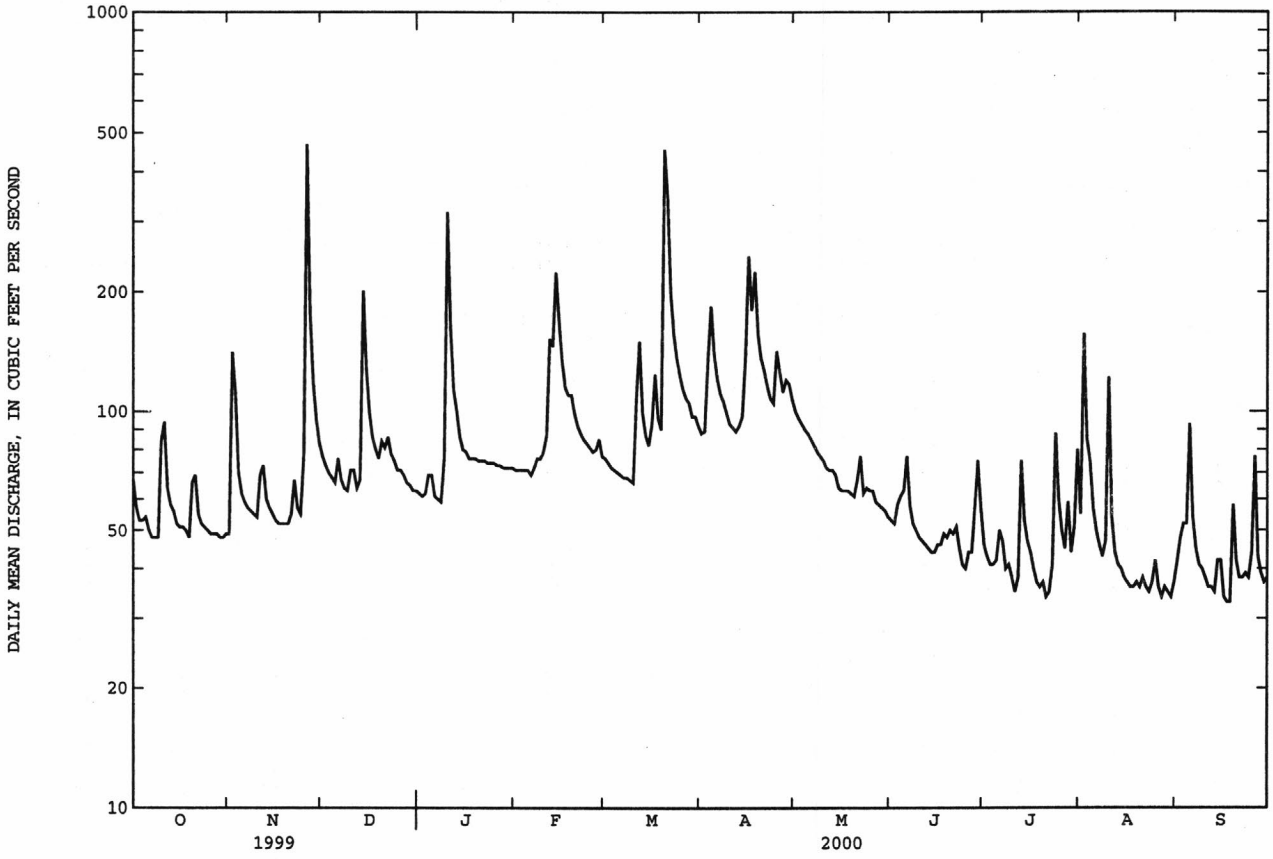
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	110	119	129	144	165	194	194	160	146	121	123	113
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	34.5	46.7	49.5	44.5	71.5	77.3	78.3	68.6	47.6	43.0	31.0	30.8
(WY)	1955	1982	1956	1956	1989	1940	1986	1941	1956	1986	1956	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	29787		27662			
ANNUAL MEAN	81.6		75.6		143	
HIGHEST ANNUAL MEAN					218	1973
LOWEST ANNUAL MEAN					67.5	1956
HIGHEST DAILY MEAN	468	Nov 26	468	Nov 26	7600	Aug 14 1940
LOWEST DAILY MEAN	35	Aug 19	33	Sep 17	23	Aug 17 1954
ANNUAL SEVEN-DAY MINIMUM	38	Sep 14	36	Aug 17	25	Aug 11 1954
INSTANTANEOUS PEAK FLOW			1090	Nov 26	27000*	Aug 14 1940
INSTANTANEOUS PEAK STAGE			4.13	Nov 26	22.02	Aug 14 1940
INSTANTANEOUS LOW FLOW			32*	Jul 22	22	Aug 17 1954
ANNUAL RUNOFF (CFSM)	.91		.85		1.60	
ANNUAL RUNOFF (INCHES)	12.42		11.54		21.77	
10 PERCENT EXCEEDS	126		119		230	
50 PERCENT EXCEEDS	72		66		111	
90 PERCENT EXCEEDS	46		39		60	

e Estimated.
* See REMARKS.

02111500 REDDIES RIVER AT NORTH WILKESBORO, NC--Continued



02112000 YADKIN RIVER AT WILKESBORO, NC

LOCATION.--Lat 36°09'09", long 81°08'45", Wilkes County, Hydrologic Unit 03040101, on right bank 150 ft upstream from bridge on State Highways 18 and 268 between North Wilkesboro and Wilkesboro, 150 ft downstream of Reddies River, 0.5 mi northeast of Wilkesboro, and 382 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--504 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft above sea level. 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.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1962 by W. Kerr Scott Reservoir (station 02111391) 5.5 mi upstream. Prior to regulation maximum discharge: 160,000 ft^3/s, Aug. 14, 1940, from rating curve extended above 20,000 ft^3/s on basis of slope-area measurement of peak flow; gage height: 37.6 ft, from floodmarks. Minimum discharge for current water year also occurred Aug. 30, 31 and 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 ft^3/s, from rating curve extended as explained above.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	296	378	339	e380	466	490	603	336	320	260	231
2	288	498	334	338	366	464	451	561	330	315	380	265
3	282	397	296	339	370	436	575	496	357	302	293	269
4	284	341	298	356	376	406	1040	499	386	297	273	236
5	284	339	295	348	380	406	1130	504	390	321	280	314
6	271	336	383	331	377	392	806	501	403	334	294	264
7	271	335	400	336	373	365	624	464	363	312	300	287
8	270	326	351	338	400	364	640	431	354	299	291	293
9	280	321	330	382	438	361	657	429	346	323	296	295
10	353	330	346	856	465	357	553	425	346	311	457	293
11	351	376	348	1310	478	460	518	425	348	303	309	277
12	309	369	337	1070	756	899	511	401	362	289	318	242
13	323	351	342	727	1310	708	517	371	347	319	312	240
14	321	348	783	565	1330	509	518	369	347	285	307	247
15	319	338	1080	459	1300	461	741	349	348	300	301	261
16	334	334	819	454	943	493	1120	338	337	297	299	247
17	337	323	539	444	754	682	1250	341	320	294	296	244
18	330	280	505	460	660	722	1430	344	336	291	295	241
19	327	279	504	443	589	630	1240	342	324	263	277	309
20	360	284	490	458	574	1920	887	358	316	263	255	263
21	316	295	429	443	561	2830	805	372	318	260	252	253
22	365	303	450	442	551	1570	943	432	321	264	248	256
23	364	285	426	468	531	956	524	498	308	273	242	280
24	361	281	405	451	489	837	517	469	307	345	246	270
25	317	337	390	419	482	744	609	425	302	298	255	285
26	283	1010	364	385	458	670	752	398	307	281	245	330
27	284	1150	344	e380	414	601	793	391	308	279	236	228
28	281	634	340	e376	438	558	802	355	393	262	231	229
29	279	531	338	e380	456	536	752	344	397	254	217	246
30	287	407	336	e376	---	533	658	341	338	256	215	250
31	288	---	335	e380	---	515	---	339	---	290	231	---
TOTAL	9589	12034	13315	14853	16999	21851	22853	12915	10295	9100	8711	7945
MEAN	309	401	430	479	586	705	762	417	343	294	281	265
MAX	365	1150	1080	1310	1330	2830	1430	603	403	345	457	330
MIN	270	279	295	331	366	357	451	338	302	254	215	228
†	-4	+31	-3	+4	+3	-7	+1	-3	-19	-24	-22	+17

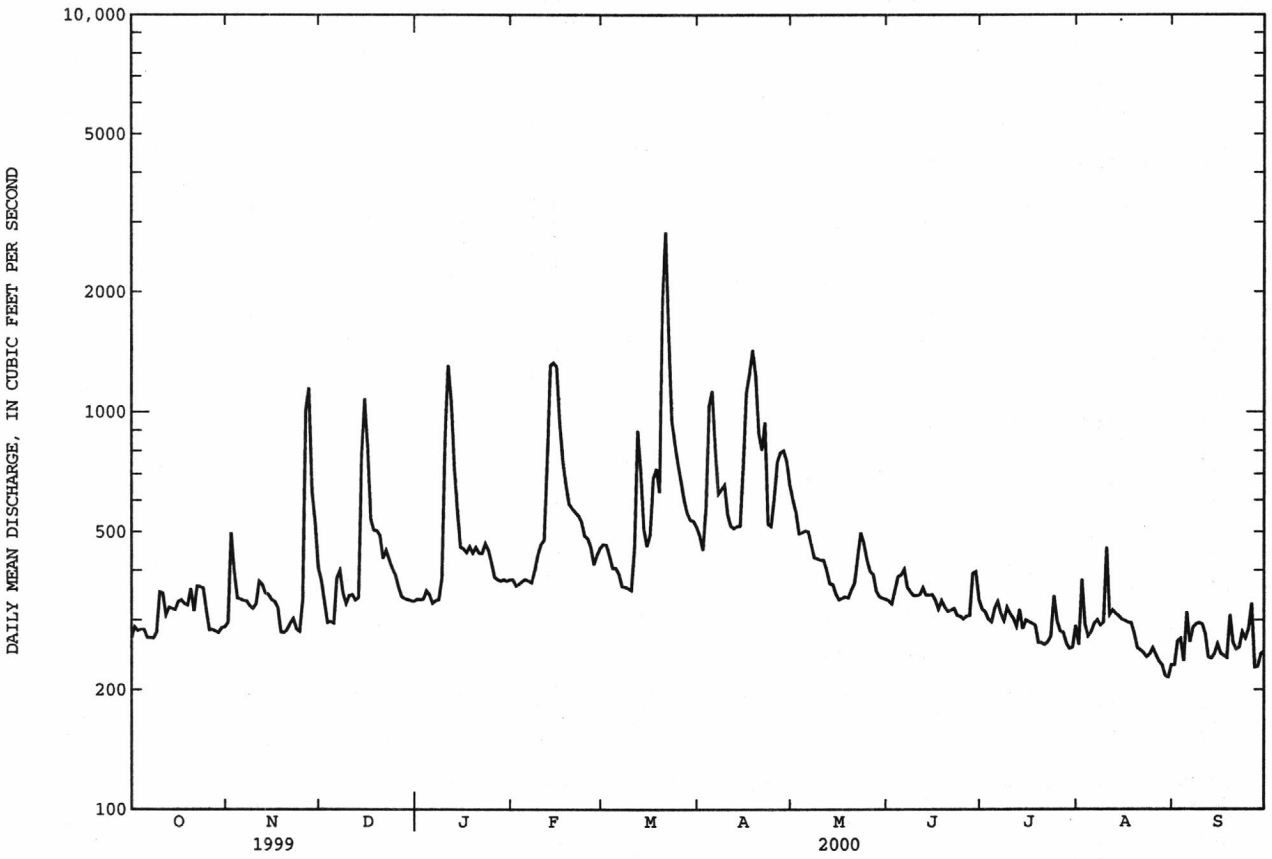
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000*, BY WATER YEAR (WY)

MEAN	682	726	762	900	991	1196	1150	955	874	667	710	595
MAX	1834	2571	1619	1965	1832	2346	2868	1954	1963	1191	2239	1948
(WY)	1991	1978	1974	1995	1990	1993	1980	1973	1975	1989	1994	1979
MIN	191	258	268	349	446	441	435	410	293	234	194	209
(WY)	1989	1982	1982	1989	1989	1988	1986	1988	1988	1988	1988	1988

02112000 YADKIN RIVER AT WILKESBORO, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000*	
ANNUAL TOTAL	176460		160460			
ANNUAL MEAN	483		438	‡436	850	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1220	1973
LOWEST ANNUAL MEAN					393	1988
HIGHEST DAILY MEAN	1950	Jan 26	2830	Mar 21	7990	Aug 10 1970
LOWEST DAILY MEAN	187	Sep 24	215	Aug 30	114	Dec 8 1970
ANNUAL SEVEN-DAY MINIMUM	194	Sep 20	229	Aug 26	166	Aug 17 1988
INSTANTANEOUS PEAK FLOW			3490	Mar 20	12800	Apr 10 1983
INSTANTANEOUS PEAK STAGE			5.78	Mar 20	16.22	Apr 10 1983
INSTANTANEOUS LOW FLOW			213*	Aug 29	54	Oct 21 1997
10 PERCENT EXCEEDS	829		731		1420	
50 PERCENT EXCEEDS	385		348		652	
90 PERCENT EXCEEDS	279		264		359	

e Estimated.
† Change in contents equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers.
‡ Adjusted for change in W. Kerr Scott Reservoir.
* For regulated period only (1963-2000). See REMARKS.



02112120 ROARING RIVER NEAR ROARING RIVER, NC

LOCATION.--Lat 36°14'59", long 81°02'39", Wilkes County, Hydrologic Unit 03040101, on left bank at downstream end of old bridge pier, 800 ft upstream from bridge on Secondary Road 1990, 3.8 mi northwest of Roaring River, and 4.1 mi upstream from mouth.

DRAINAGE AREA.--128 mi^2.

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 sea level. 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 poor. Maximum discharge for period of record, from rating curve extended above 2,400 ft^3/s on basis of slope-area measurement of peak flow at gage heights 22.54, 14.40, and 10.83 ft. Minimum discharge for current water year also occurred Aug. 24, Sept. 17.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 28 ft; estimated discharge, 45,000 ft^3/s. The flood of August 1940 reached a stage of about 24 ft; estimated discharge, 31,000 ft^3/s, from information by local residents and rating curve extended as explained above. A discharge of 24 ft^3/s was measured Sept. 18, 1956.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	70	101	83	e70	100	109	130	66	63	63	69
2	91	184	96	83	e70	98	111	125	64	60	114	97
3	81	135	92	82	e80	95	177	121	85	54	96	128
4	78	98	88	92	109	94	231	117	72	56	76	80
5	81	88	86	95	96	92	176	113	75	60	65	95
6	72	84	99	82	94	90	151	109	86	66	59	68
7	70	82	87	83	98	88	139	107	68	67	56	60
8	68	79	83	81	105	88	134	101	63	54	57	57
9	68	78	82	108	106	87	125	100	61	53	69	55
10	165	77	97	423	110	86	119	95	59	49	219	52
11	174	76	98	242	122	138	115	91	56	46	78	51
12	109	77	86	160	205	230	112	90	55	73	60	51
13	96	75	89	142	190	143	117	94	53	205	54	50
14	91	73	255	121	289	125	124	102	53	81	52	60
15	82	72	170	112	222	117	183	83	63	67	49	55
16	79	70	134	109	178	131	249	81	68	59	47	45
17	78	70	117	105	153	179	193	81	61	53	45	44
18	76	70	109	e104	152	133	295	81	60	51	45	45
19	74	70	103	e100	158	125	203	79	66	50	49	86
20	107	71	112	e96	141	484	174	78	68	51	45	58
21	104	72	110	e89	131	377	162	87	62	48	47	51
22	82	76	116	e86	124	240	146	93	63	47	46	50
23	78	73	104	e84	120	190	137	78	57	55	44	51
24	75	72	100	e82	116	168	133	79	52	76	48	50
25	74	99	95	e80	111	152	178	78	51	70	58	63
26	74	510	96	e78	108	140	159	78	55	60	70	116
27	74	238	91	e76	108	133	141	73	68	57	49	61
28	72	156	88	e74	116	129	156	73	96	84	55	52
29	72	127	86	e73	103	119	155	72	100	58	50	49
30	71	110	84	e72	---	120	143	70	74	55	46	49
31	70	---	83	e72	---	115	---	67	---	81	48	---
TOTAL	2710	3232	3237	3369	3785	4606	4747	2826	1980	2009	1959	1898
MEAN	87.4	108	104	109	131	149	158	91.2	66.0	64.8	63.2	63.3
MAX	174	510	255	423	289	484	295	130	100	205	219	128
MIN	68	70	82	72	70	86	109	67	51	46	44	44
CFSM	.68	.84	.82	.85	1.02	1.16	1.24	.71	.52	.51	.49	.49
IN.	.79	.94	.94	.98	1.10	1.34	1.38	.82	.58	.58	.57	.55

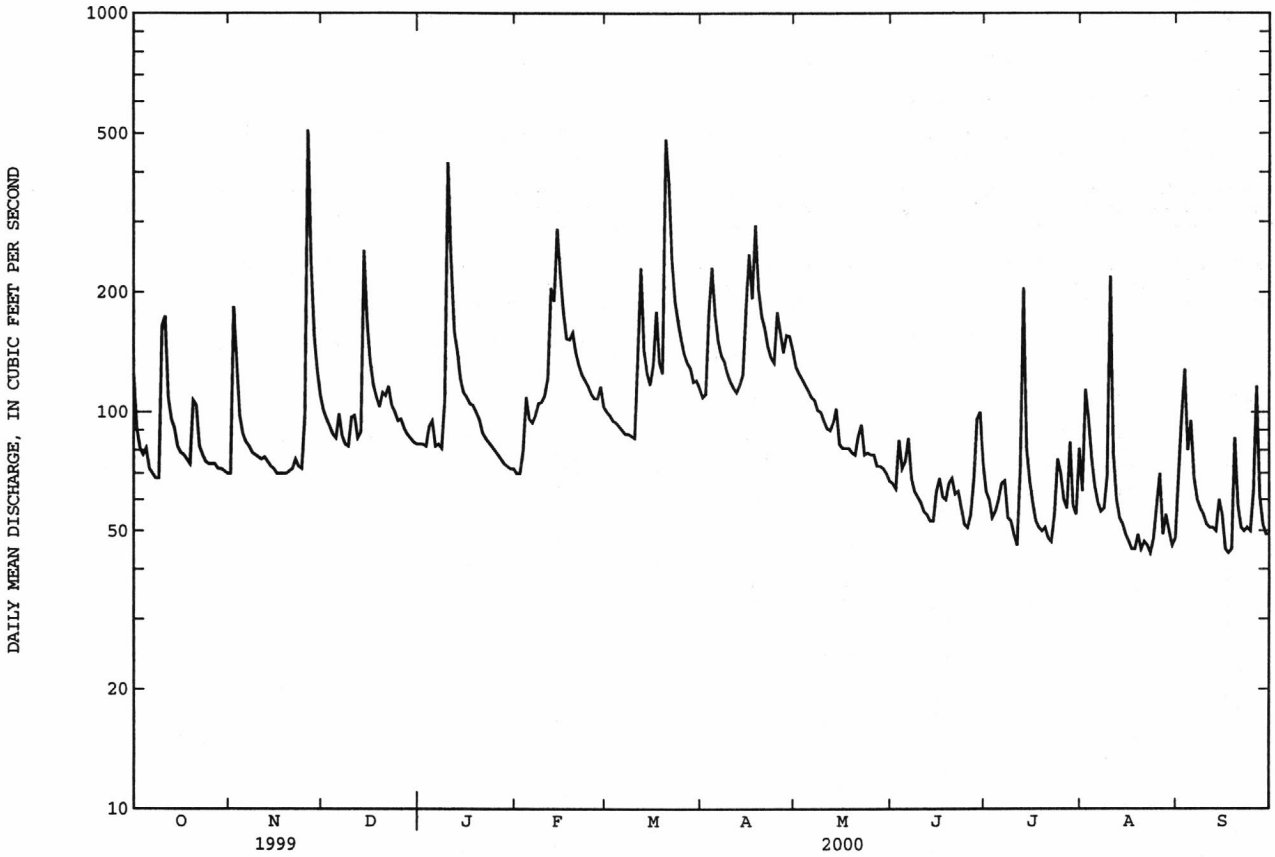
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	153	159	173	206	224	264	255	214	191	155	150	140
MAX	422	426	389	406	413	610	637	430	432	349	461	446
(WY)	1977	1978	1997	1996	1990	1993	1980	1991	1975	1989	1994	1971
MIN	56.9	63.3	72.1	83.8	99.5	97.4	100	90.7	62.2	50.8	47.3	57.9
(WY)	1989	1982	1989	1981	1989	1988	1986	1988	1988	1986	1988	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	40888		36358			
ANNUAL MEAN	112		99.3		191	
HIGHEST ANNUAL MEAN					269	1993
LOWEST ANNUAL MEAN					98.5	1988
HIGHEST DAILY MEAN	875	Jan 24	510	Nov 26	7460	Aug 17 1994
LOWEST DAILY MEAN	37	Aug 19	44	Aug 23	32	Aug 27 1988
ANNUAL SEVEN-DAY MINIMUM	42	Aug 13	46	Aug 17	38	Aug 22 1988
INSTANTANEOUS PEAK FLOW			1100	Nov 26	26600*	Oct 17 1975
INSTANTANEOUS PEAK STAGE			3.60	Nov 26	22.54*	Oct 17 1975
INSTANTANEOUS LOW FLOW			43*	Aug 23	31	Aug 27 1988
ANNUAL RUNOFF (CFSM)	.88		.78		1.49	
ANNUAL RUNOFF (INCHES)	11.88		10.57		20.23	
10 PERCENT EXCEEDS	178		158		309	
50 PERCENT EXCEEDS	93		83		143	
90 PERCENT EXCEEDS	53		52		79	

e Estimated.
* See REMARKS.

02112120 ROARING RIVER NEAR ROARING RIVER, NC--Continued



02112250 YADKIN RIVER AT ELKIN, NC

LOCATION.--Lat 36°14'30", long 80°50'49", Yadkin County, Hydrologic Unit 03040101, on right bank at downstream side of bridge on U.S. Highway 21 at Elkin, 0.3 mi downstream of Elkin River, and 362 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--869 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 866.03 ft above sea level. Prior to Aug. 28, 1964, nonrecording gage on upstream side of bridge at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation by W. Kerr Scott Reservoir (station 02111391). Maximum gage height for period of record, from graph based on hourly gage-height readings and floodmark. Minimum discharge for current water year also occurred Sept. 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 36.0 ft, from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft. A discharge of 172 ft^3/s was measured on Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	668	560	746	681	767	825	923	1080	611	568	524	509
2	610	779	726	682	741	822	893	1030	600	563	627	672
3	586	958	656	679	743	807	1200	954	612	524	633	2060
4	581	689	651	713	754	774	1460	925	736	505	546	939
5	603	649	644	750	764	765	1820	917	730	533	511	1160
6	567	640	688	674	766	753	1330	903	812	579	503	580
7	500	630	773	674	767	724	1110	883	651	613	503	515
8	511	614	704	679	786	713	1090	822	606	520	485	502
9	556	601	663	749	811	717	1110	806	592	520	515	490
10	705	599	690	1690	853	686	1010	802	583	514	927	470
11	851	627	733	1880	873	807	938	788	577	489	634	454
12	689	694	684	1640	1130	1190	933	779	577	488	540	421
13	676	630	684	1170	1660	1210	946	773	561	1010	520	404
14	653	619	1220	1040	2070	914	972	781	552	622	507	448
15	603	607	1480	863	1850	842	1150	715	582	554	491	539
16	605	595	1320	843	1510	856	1930	680	716	536	477	417
17	607	594	967	828	1190	1100	1730	675	571	506	472	401
18	605	563	882	863	1120	1120	2210	677	552	506	472	402
19	588	547	867	850	1030	1020	1900	673	588	470	481	693
20	715	556	883	873	1000	2580	1450	682	556	457	446	520
21	744	570	838	836	965	4210	1260	723	552	453	442	438
22	654	588	859	785	944	2510	1300	792	547	460	435	428
23	651	570	814	876	928	1490	1130	774	538	477	424	461
24	637	570	784	842	883	1360	976	809	514	579	424	441
25	623	584	764	821	865	1190	1120	763	537	608	458	463
26	568	1580	738	749	855	1150	1190	722	539	515	479	1060
27	567	1860	715	684	814	1060	1220	695	524	516	447	522
28	559	1120	699	677	832	1020	1310	704	696	534	447	455
29	555	981	688	756	819	966	1320	663	835	531	422	443
30	560	813	680	776	---	969	1180	633	667	467	408	441
31	563	---	681	778	---	952	---	619	---	524	425	---
TOTAL	19160	21987	24921	27401	29090	36102	38111	24242	18314	16741	15625	17748
MEAN	618	733	804	884	1003	1165	1270	782	610	540	504	592
MAX	851	1860	1480	1880	2070	4210	2210	1080	835	1010	927	2060
MIN	500	547	644	674	741	686	893	619	514	453	408	401

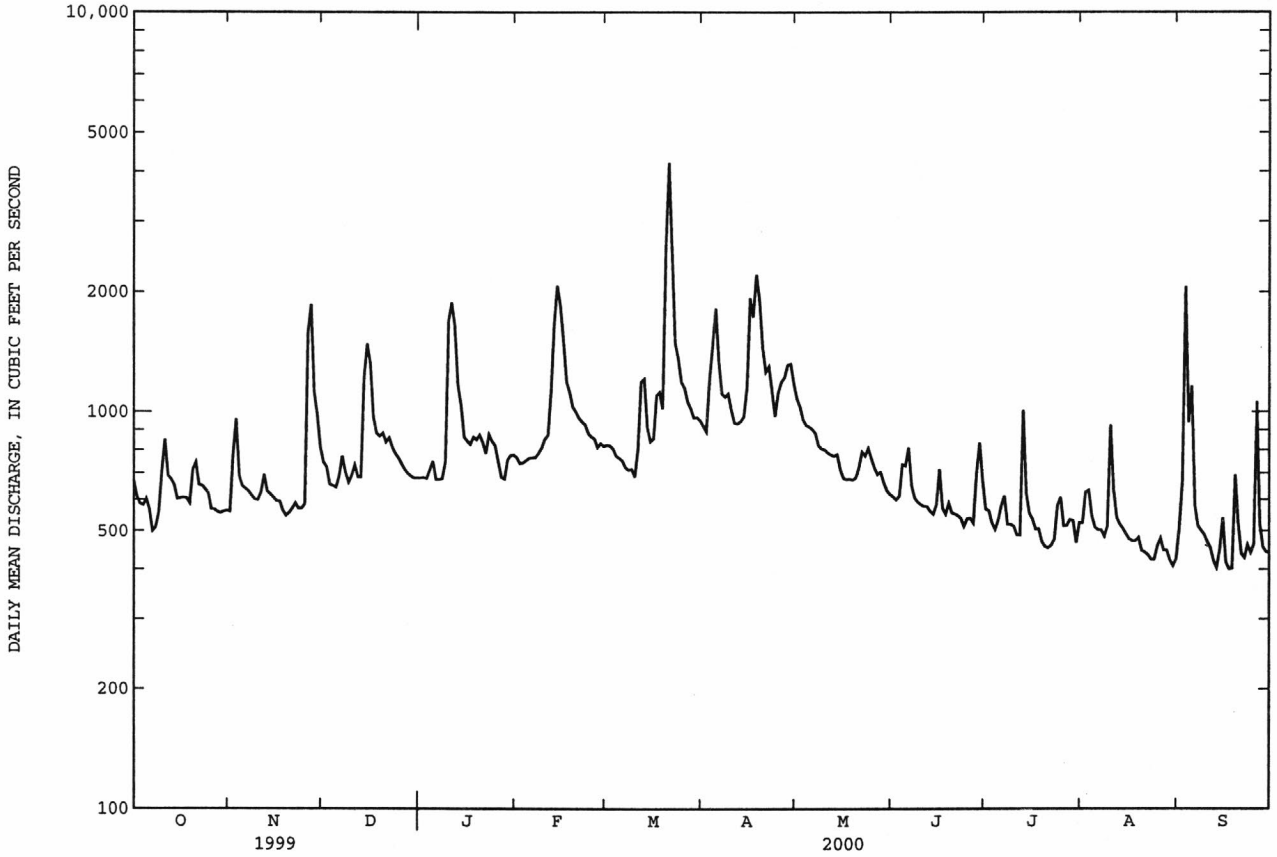
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	1129	1148	1238	1493	1635	1918	1869	1546	1384	1082	1142	994
MAX	2911	3871	2591	3129	2978	3885	4510	2887	2942	1922	3323	2910
(WY)	1991	1978	1974	1978	1990	1975	1980	1973	1975	1989	1994	1979
MIN	372	428	532	617	752	745	737	729	507	433	361	416
(WY)	1989	1982	1989	1966	1989	1988	1986	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	312372		289442			
ANNUAL MEAN	856		791		1385	
HIGHEST ANNUAL MEAN					1951	1973
LOWEST ANNUAL MEAN					698	1988
HIGHEST DAILY MEAN	3350	Jan 24	4210	Mar 21	21500	Aug 10 1970
LOWEST DAILY MEAN	404	Sep 26	401	Sep 17	246	Aug 31 1981
ANNUAL SEVEN-DAY MINIMUM	417	Sep 20	433	Sep 12	257	Aug 25 1981
INSTANTANEOUS PEAK FLOW			4930	Mar 20	29100	Aug 17 1994
INSTANTANEOUS PEAK STAGE			7.25	Mar 20	24.88*	Apr 10 1983
INSTANTANEOUS LOW FLOW			386*	Sep 17	239	Aug 31 1981
10 PERCENT EXCEEDS	1290		1190		2300	
50 PERCENT EXCEEDS	756		688		1060	
90 PERCENT EXCEEDS	517		478		605	

* See REMARKS.

02112250 YADKIN RIVER AT ELKIN, NC--Continued



02112360 MITCHELL RIVER NEAR STATE ROAD, NC

LOCATION.--Lat 36°18'42", long 80°48'26", Surry County, Hydrologic Unit 03040101, on right bank 280 ft upstream from bridge on Secondary Road 1001, 1.8 mi upstream from Grass Creek, and 3.3 mi east of State Road.

DRAINAGE AREA.--78.8 mi^2.

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

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

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Aug. 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900, about 18 ft in August 1940, from information by local resident; estimated discharge, 9,000 ft^3/s. A discharge of 16 ft^3/s was measured on Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	55	79	70	e77	81	96	107	61	61	56	144
2	78	125	76	70	e76	79	97	103	59	60	180	96
3	67	99	74	70	e77	77	131	100	66	54	86	237
4	65	76	72	80	78	76	145	97	74	76	72	140
5	64	71	71	82	79	75	119	94	96	79	72	332
6	56	67	83	71	78	73	108	91	92	75	59	100
7	55	67	73	70	82	72	103	89	66	82	54	79
8	53	67	69	68	86	72	104	86	61	58	73	71
9	54	65	68	85	85	71	99	84	58	56	82	64
10	118	64	77	233	88	71	94	81	55	51	125	59
11	112	66	78	145	92	95	93	77	53	49	74	55
12	80	69	71	110	127	129	92	75	51	58	58	53
13	76	64	72	102	119	96	95	82	49	109	53	51
14	75	63	215	93	148	88	100	87	48	88	50	52
15	68	59	137	88	126	83	129	72	90	73	45	50
16	64	60	107	87	111	91	220	70	86	63	44	46
17	63	59	96	85	102	125	152	70	62	57	43	45
18	61	58	90	93	104	96	189	70	58	52	43	46
19	59	58	86	87	105	91	139	69	56	50	46	90
20	83	58	94	96	97	398	124	68	58	51	42	58
21	84	60	93	e82	92	379	117	73	58	47	44	52
22	68	66	95	e81	90	207	109	79	65	46	42	50
23	63	61	88	e81	88	160	105	70	54	57	40	52
24	60	60	84	e80	87	139	103	69	49	73	45	50
25	59	63	80	e80	85	128	151	69	48	72	51	58
26	59	278	78	e80	84	119	130	69	56	63	57	112
27	58	154	77	e79	86	113	116	65	76	59	46	62
28	57	109	75	e79	90	109	132	69	106	72	48	55
29	57	94	74	e78	81	103	127	67	96	55	44	51
30	56	85	72	e78	---	103	116	65	74	49	43	50
31	56	---	71	e77	---	99	---	61	---	52	47	---
TOTAL	2128	2400	2675	2760	2720	3698	3635	2428	1981	1947	1864	2460
MEAN	68.6	80.0	86.3	89.0	93.8	119	121	78.3	66.0	62.8	60.1	82.0
MAX	118	278	215	233	148	398	220	107	106	109	180	332
MIN	53	55	68	68	76	71	92	61	48	46	40	45
CFSM	.87	1.02	1.10	1.13	1.19	1.51	1.54	.99	.84	.80	.76	1.04
IN.	1.00	1.13	1.26	1.30	1.28	1.75	1.72	1.15	.94	.92	.88	1.16

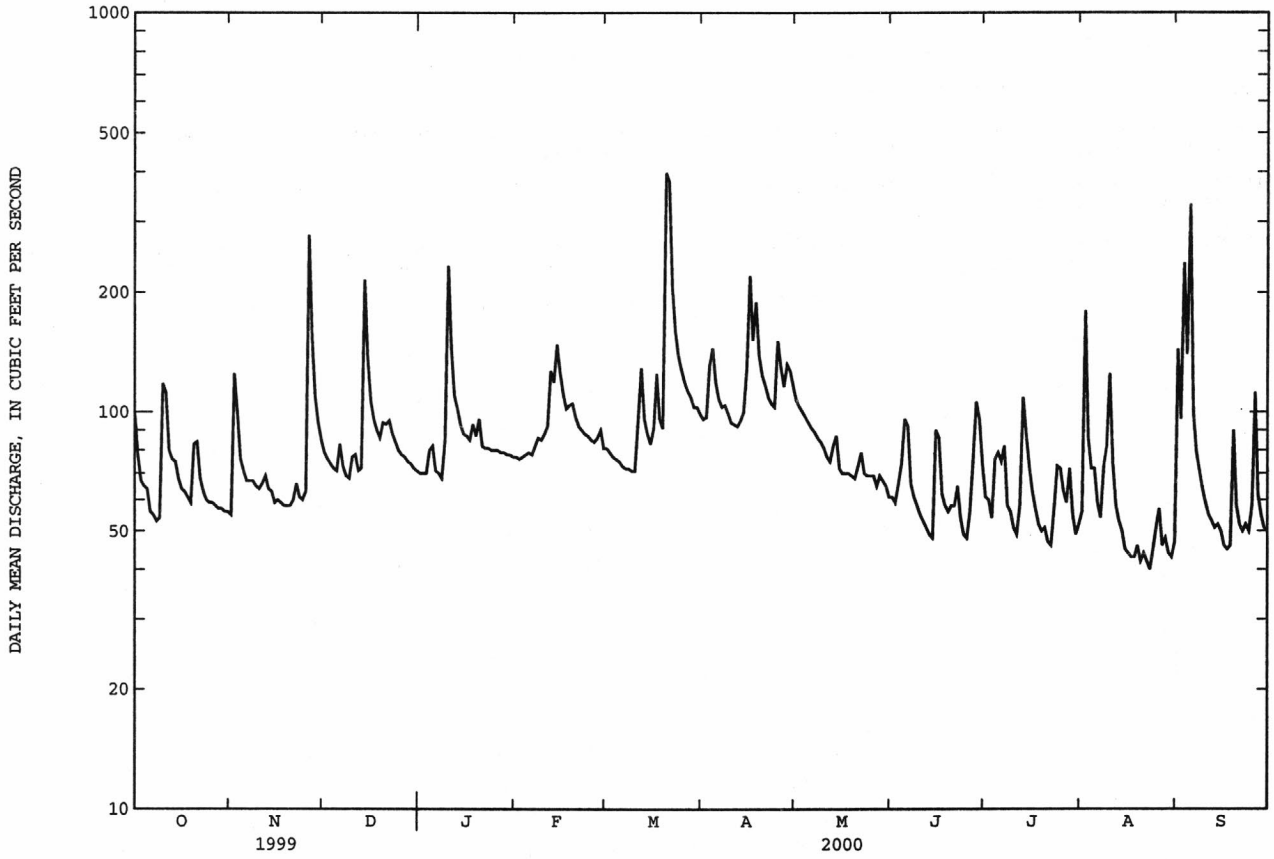
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	109	106	116	132	147	174	172	149	127	108	107	104
MAX	248	211	230	232	258	373	426	264	233	228	247	313
(WY)	1991	1980	1974	1998	1966	1993	1983	1973	1975	1989	1970	1979
MIN	40.1	48.7	47.0	48.3	64.9	72.8	69.1	69.4	50.0	35.9	32.1	51.9
(WY)	1989	1982	1989	1981	1989	1981	1981	1988	1988	1986	1981	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	33073		30696			
ANNUAL MEAN	90.6		83.9		129	
HIGHEST ANNUAL MEAN					178	1993
LOWEST ANNUAL MEAN					66.5	1981
HIGHEST DAILY MEAN	358	Jan 24	398	Mar 20	3260	Aug 10 1970
LOWEST DAILY MEAN	40	Aug 19	40	Aug 23	23	Aug 27 1988
ANNUAL SEVEN-DAY MINIMUM	44	Sep 20	43	Aug 17	25	Aug 25 1981
INSTANTANEOUS PEAK FLOW			1830	Sep 5	7470	Sep 22 1979
INSTANTANEOUS PEAK STAGE			5.32	Sep 5	16.42	Sep 22 1979
INSTANTANEOUS LOW FLOW			39*	Aug 23	16	Jul 22 1986
ANNUAL RUNOFF (CFSM)	1.15		1.06		1.64	
ANNUAL RUNOFF (INCHES)	15.61		14.49		22.27	
10 PERCENT EXCEEDS	129		120		202	
50 PERCENT EXCEEDS	82		76		102	
90 PERCENT EXCEEDS	55		51		57	

e Estimated.
* See REMARKS.

02112360 MITCHELL RIVER NEAR STATE ROAD, NC--Continued



02113000 FISHER RIVER NEAR COPELAND, NC

LOCATION.--Lat 36°21'26", long 80°41'10", Surry County, Hydrologic Unit 03040101, on left bank 500 ft upstream from bridge on State Highway 268, 1 mi upstream from Cody Creek, and 2 mi northwest of Copeland.

DRAINAGE AREA.--128 mi^2.

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 sea level, 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 fair. Some irrigation diversions at times in the growing season. Maximum discharge for period of record, from rating curve extended above 6,200 ft^3/s on basis of slope-area measurement of peak flow; gage height: 18.4 ft. Minimum discharge for current water year also occurred Aug. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	74	114	108	e90	108	129	146	66	69	56	99
2	106	117	108	102	e89	108	127	143	64	62	167	139
3	92	154	105	101	e88	103	178	135	73	57	87	214
4	87	100	102	111	e96	101	227	129	113	83	153	129
5	91	90	99	118	105	100	183	124	88	117	181	251
6	78	86	112	100	107	98	152	121	146	86	65	107
7	74	84	104	98	110	96	140	121	87	85	57	82
8	72	82	95	98	118	96	143	112	70	62	52	73
9	72	80	93	118	117	95	139	107	65	61	66	68
10	134	79	100	455	121	95	129	104	62	56	129	65
11	164	80	110	235	125	119	123	99	60	51	81	60
12	109	87	97	158	179	172	121	95	58	50	58	57
13	101	81	98	141	182	127	123	99	54	65	52	55
14	105	85	487	127	225	112	138	122	52	73	50	54
15	95	80	244	118	186	115	150	91	61	61	46	54
16	88	75	169	117	158	115	374	86	94	54	44	48
17	85	74	143	113	142	174	225	86	69	49	42	47
18	80	74	132	123	144	135	477	87	62	45	40	48
19	75	73	125	117	151	121	226	85	59	43	48	105
20	104	74	132	126	140	676	185	84	60	44	44	78
21	121	80	136	e110	129	717	170	90	59	41	43	59
22	93	137	137	e102	124	295	155	99	58	40	41	54
23	85	98	126	e100	121	219	146	85	52	45	39	56
24	82	92	121	e98	118	188	144	82	50	50	41	56
25	78	88	116	e97	115	174	215	77	48	58	50	62
26	76	487	110	e96	114	163	194	81	58	53	50	147
27	76	274	109	e95	118	150	165	74	125	48	48	77
28	75	170	105	e94	128	148	173	74	113	51	54	64
29	80	140	110	e93	110	137	181	77	126	51	46	58
30	77	123	110	e92	---	135	160	73	92	49	41	57
31	76	---	110	e91	---	132	---	68	---	55	43	---
TOTAL	2877	3418	4059	3852	3750	5324	5392	3056	2244	1814	2014	2523
MEAN	92.8	114	131	124	129	172	180	98.6	74.8	58.5	65.0	84.1
MAX	164	487	487	455	225	717	477	146	146	117	181	251
MIN	72	73	93	91	88	95	121	68	48	40	39	47
CFSM	.73	.89	1.02	.97	1.01	1.34	1.40	.77	.58	.46	.51	.66
IN.	.84	.99	1.18	1.12	1.09	1.55	1.57	.89	.65	.53	.59	.73

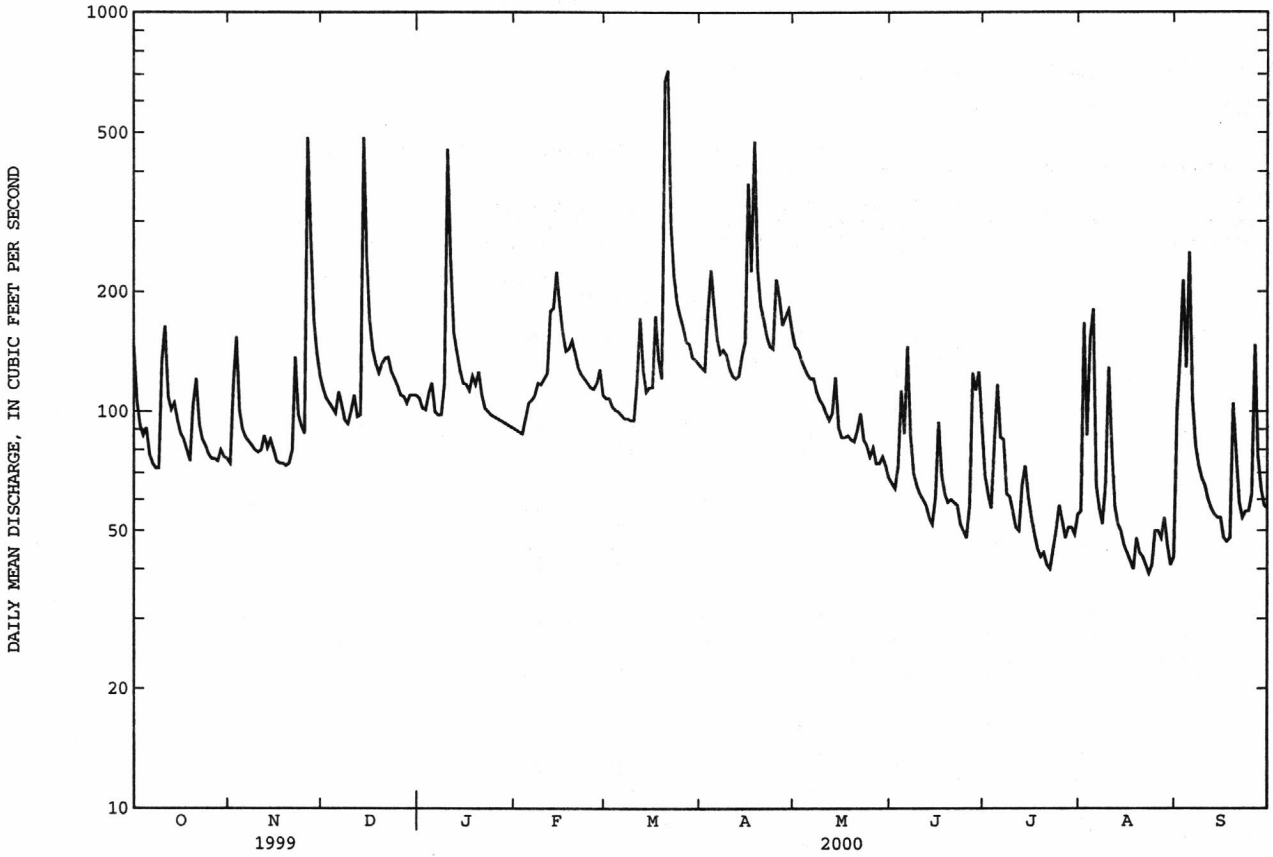
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2000, BY WATER YEAR (WY)

MEAN	148	150	169	203	217	250	245	198	176	147	152	141
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	53.7	58.1	54.4	68.8	103	103	77.6	47.5	31.3	24.6	27.9
(WY)	1942	1932	1956	1956	1934	1981	1981	1941	1956	1986	1981	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1932 - 2000	
ANNUAL TOTAL	44195		40323			
ANNUAL MEAN	121		110		183	
HIGHEST ANNUAL MEAN					281	1979
LOWEST ANNUAL MEAN					87.6	1956
HIGHEST DAILY MEAN	989	May 14	717	Mar 21	12100	Sep 22 1979
LOWEST DAILY MEAN	31	Aug 19	39	Aug 23	13	Aug 28 1981
ANNUAL SEVEN-DAY MINIMUM	38	Aug 13	42	Aug 18	15	Aug 25 1981
INSTANTANEOUS PEAK FLOW			1750	Mar 20	34200*	Sep 22 1979
INSTANTANEOUS PEAK STAGE			5.40	Mar 20	19.61*	Sep 22 1979
INSTANTANEOUS LOW FLOW			38*	Aug 23	12	Aug 30 1981
ANNUAL RUNOFF (CFSM)	.95		.86		1.43	
ANNUAL RUNOFF (INCHES)	12.84		11.72		19.38	
10 PERCENT EXCEEDS	169		168		289	
50 PERCENT EXCEEDS	107		98		136	
90 PERCENT EXCEEDS	56		52		68	

e Estimated.
* See REMARKS.

02113000 FISHER RIVER NEAR COPELAND, NC--Continued



02113850 ARARAT RIVER AT ARARAT, NC

LOCATION.--Lat 36°24'16", long 80°33'43", Surry County, Hydrologic Unit 03040101, on right bank 265 ft upstream from bridge on Secondary Road 2019 at Ararat, and 300 ft downstream of Flat Shoal Creek.

DRAINAGE AREA.--231 mi^2.

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

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record also occurred Aug. 20, 1999. Minimum discharge for current water year also occurred Aug. 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 14, 1947, reached a stage of 21.4 ft, result of failure of dams upstream; discharge, 26,000 ft^3/s, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	125	148	144	e166	200	206	243	129	140	96	222
2	171	210	143	143	e174	198	209	233	127	119	331	412
3	143	234	140	147	183	190	316	225	196	111	176	598
4	143	160	137	165	189	188	427	217	209	129	212	375
5	147	146	134	173	192	185	338	213	172	186	216	375
6	122	139	159	149	193	181	269	206	304	250	115	206
7	114	135	150	145	186	180	247	202	185	150	102	156
8	106	132	134	141	215	178	249	195	147	118	97	140
9	108	131	131	181	182	178	248	191	135	113	122	125
10	276	128	146	540	224	178	218	184	128	103	309	114
11	305	131	155	374	235	227	213	176	119	93	177	106
12	196	130	136	256	353	324	209	171	111	92	114	101
13	179	129	140	231	334	246	221	178	103	133	93	96
14	171	127	591	207	398	206	245	187	102	150	84	116
15	144	121	348	196	334	196	247	160	174	130	77	148
16	135	118	242	194	277	222	339	153	290	95	74	102
17	132	117	201	187	259	316	339	166	179	84	74	92
18	131	117	182	e208	278	232	913	169	145	77	80	84
19	125	118	176	e210	290	212	447	159	144	74	114	252
20	186	117	190	e200	264	606	340	158	135	75	77	143
21	195	127	200	e183	242	741	306	184	127	70	73	109
22	152	186	201	e182	231	422	278	237	125	65	70	98
23	139	151	182	e181	226	326	262	183	113	78	65	101
24	132	141	172	e180	218	284	248	161	96	94	70	98
25	131	135	164	e179	215	264	375	157	99	110	76	106
26	129	373	159	e178	209	252	330	174	103	95	96	287
27	132	332	157	e176	213	237	278	148	120	85	86	140
28	128	210	151	e170	243	233	285	150	345	93	327	113
29	122	174	148	e168	206	220	291	153	252	84	128	105
30	124	158	147	e167	---	224	266	146	180	100	93	96
31	120	---	144	e166	---	216	---	137	---	87	85	---
TOTAL	4802	4752	5608	6121	6929	8062	9159	5616	4794	3383	3909	5216
MEAN	155	158	181	197	239	260	305	181	160	109	126	174
MAX	305	373	591	540	398	741	913	243	345	250	331	598
MIN	106	117	131	141	166	178	206	137	96	65	65	84
CFSM	.67	.69	.78	.85	1.03	1.13	1.32	.78	.69	.47	.55	.75
IN.	.77	.77	.90	.99	1.12	1.30	1.47	.90	.77	.54	.63	.84

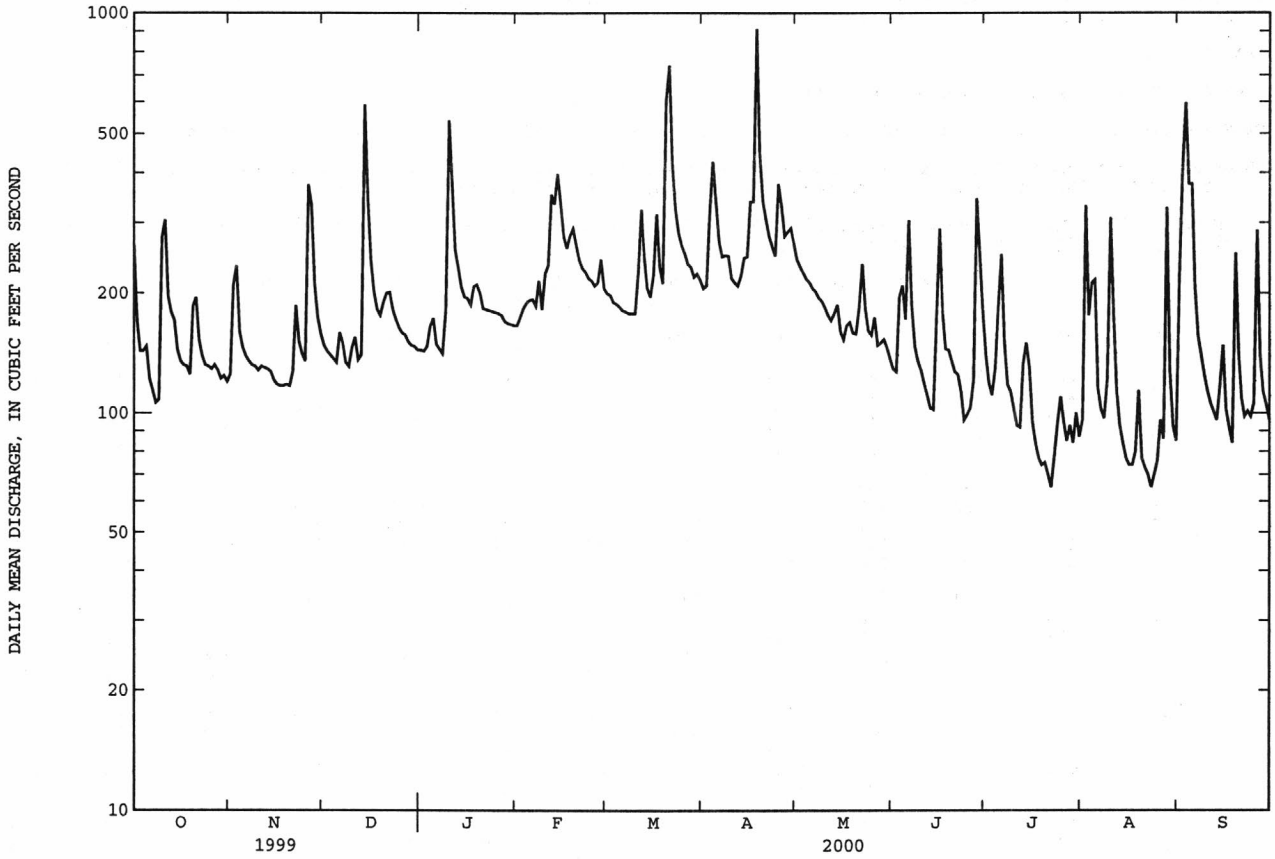
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	241	250	284	343	370	440	438	363	319	252	239	225
MAX	587	537	584	743	691	992	1048	591	736	554	536	879
(WY)	1977	1993	1974	1978	1990	1993	1980	1973	1982	1989	1985	1979
MIN	104	111	124	120	187	172	170	167	110	81.9	45.4	88.2
(WY)	1987	1982	1989	1981	1989	1981	1967	1988	1988	1986	1981	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	67191		68351			
ANNUAL MEAN	184		187		314	
HIGHEST ANNUAL MEAN					462	1979
LOWEST ANNUAL MEAN					150	1981
HIGHEST DAILY MEAN	1230	Jan 24	913	Apr 18	13600	Sep 22 1979
LOWEST DAILY MEAN	13	Aug 19	65	Jul 22	13	Aug 19 1999
ANNUAL SEVEN-DAY MINIMUM	23	Aug 13	75	Jul 17	23	Aug 24 1981
INSTANTANEOUS PEAK FLOW			1400	Apr 18	35000	Sep 22 1979
INSTANTANEOUS PEAK STAGE			3.33	Apr 18	24.46	Sep 22 1979
INSTANTANEOUS LOW FLOW			59*	Aug 23	12*	Aug 19 1999
ANNUAL RUNOFF (CFSM)	.80		.81		1.36	
ANNUAL RUNOFF (INCHES)	10.82		11.01		18.45	
10 PERCENT EXCEEDS	285		304		507	
50 PERCENT EXCEEDS	170		170		241	
90 PERCENT EXCEEDS	73		96		126	

e Estimated.
* See REMARKS.

02113850 ARARAT RIVER AT ARARAT, NC--Continued



02114450 LITTLE YADKIN RIVER AT DALTON, NC

LOCATION.--Lat 36°17'56", long 80°25'53", Stokes County, Hydrologic Unit 03040101, on left bank 1,200 ft downstream of bridge on U.S. Highway 52, 1.0 mi southwest of Dalton, 1.3 mi downstream of Southern Railway bridge, and 2.0 mi downstream of Danbury Creek.

DRAINAGE AREA.--42.8 mi^2.

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

REVISED RECORDS.--WSP 2104: Drainage area.

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. A Natural Resources Conservation Service flood-control dam on upstream tributary, drainage area 4.7 mi^2 with flood storage of 695 acre-ft, was completed on June 21, 1977. Maximum discharge for period of record, from rating curve extended above 2,700 ft^3/s on basis of slope-area measurement at gage height 17.86 ft. Minimum discharge for current water year also occurred Aug. 24, 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e60	17	17	17	e20	29	26	38	e16	14	42	106
2	27	33	17	17	e20	28	27	34	e16	13	19	97
3	20	26	17	17	e19	27	249	31	16	12	28	83
4	19	20	17	28	e26	27	111	30	21	16	18	33
5	19	20	17	31	33	26	66	29	150	24	20	31
6	16	20	36	22	34	25	52	27	153	30	16	22
7	14	20	26	20	37	25	41	25	38	25	14	17
8	14	18	21	20	44	25	49	24	24	15	13	16
9	14	19	20	49	42	25	53	23	20	13	12	15
10	25	19	24	e300	42	25	39	22	18	12	22	14
11	28	19	24	103	44	27	35	20	16	11	15	13
12	20	19	21	50	87	35	33	20	15	11	12	13
13	18	19	21	36	73	26	34	22	14	39	11	12
14	18	19	129	30	122	25	36	e34	14	41	10	18
15	16	18	51	27	71	25	44	e22	17	33	9.3	25
16	15	17	31	26	50	92	213	19	21	18	9.2	14
17	16	17	24	25	41	117	77	e20	16	14	8.7	12
18	16	17	22	30	43	47	179	e20	17	12	8.5	12
19	15	18	21	26	40	35	84	e18	18	11	9.2	353
20	26	18	23	31	35	294	56	e20	16	11	8.3	62
21	29	18	27	27	33	247	45	24	15	10	8.7	30
22	21	19	29	28	31	87	38	25	14	10	8.3	22
23	18	19	24	27	30	54	35	20	13	11	8.0	23
24	17	19	22	25	30	42	33	19	12	26	8.3	19
25	16	19	20	25	29	37	106	19	12	17	9.3	94
26	17	27	20	24	29	36	82	e20	12	15	8.4	183
27	16	24	19	e23	31	33	52	18	14	14	8.8	41
28	16	20	19	e22	38	31	56	20	22	12	185	26
29	16	18	18	22	30	28	57	e24	25	21	24	22
30	16	17	17	e22	---	29	46	18	18	13	15	19
31	16	---	17	e21	---	28	---	e16	---	44	16	---
TOTAL	614	593	811	1171	1204	1637	2054	721	793	568	605.0	1447
MEAN	19.8	19.8	26.2	37.8	41.5	52.8	68.5	23.3	26.4	18.3	19.5	48.2
MAX	60	33	129	300	122	294	249	38	153	44	185	353
MIN	14	17	17	17	19	25	26	16	12	10	8.0	12
CFSM	.46	.46	.61	.88	.97	1.23	1.60	.54	.62	.43	.46	1.13
IN.	.53	.52	.70	1.02	1.05	1.42	1.79	.63	.69	.49	.53	1.26

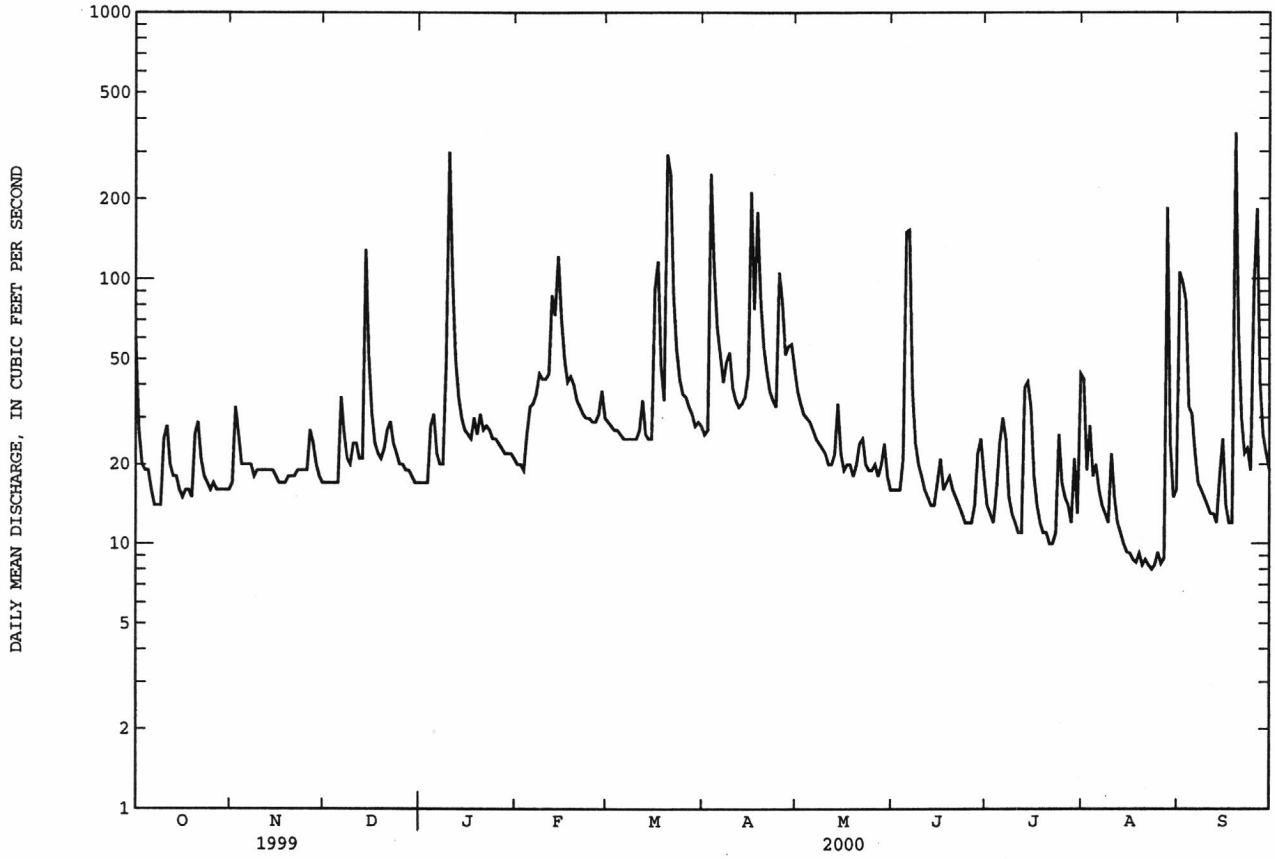
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000, BY WATER YEAR (WY)

MEAN	36.8	32.5	46.6	60.4	66.0	81.7	61.1	45.6	39.8	32.4	30.2	27.8
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	11.2	16.4	17.2	25.0	20.1	18.0	14.0	7.15	4.27	6.48	5.08
(WY)	1987	1968	1966	1981	1977	1967	1967	1986	1986	1986	1986	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000	
ANNUAL TOTAL	9889.3		12218.0			
ANNUAL MEAN	27.1		33.4		46.6	
HIGHEST ANNUAL MEAN					75.2	1990
LOWEST ANNUAL MEAN					22.1	1967
HIGHEST DAILY MEAN	339	Apr 30	353	Sep 19	3350	Jun 21 1972
LOWEST DAILY MEAN	3.8	Aug 19	8.0	Aug 23	1.6	Aug 2 1977
ANNUAL SEVEN-DAY MINIMUM	5.2	Aug 13	8.5	Aug 18	2.3	Jul 28 1986
INSTANTANEOUS PEAK FLOW			1150	Sep 19	9400*	Sep 22 1979
INSTANTANEOUS PEAK STAGE			3.98	Sep 19	20.29	Sep 22 1979
INSTANTANEOUS LOW FLOW			7.8*	Aug 23	1.3	Aug 2 1977
ANNUAL RUNOFF (CFSM)	.63		.78		1.09	
ANNUAL RUNOFF (INCHES)	8.60		10.62		14.79	
10 PERCENT EXCEEDS	42		53		74	
50 PERCENT EXCEEDS	19		22		26	
90 PERCENT EXCEEDS	10		13		12	

e Estimated.
* See REMARKS.

02114450 LITTLE YADKIN RIVER AT DALTON, NC--Continued



02115360 YADKIN RIVER AT ENON, NC

LOCATION.--Lat 36°07'55", long 80°26'39", Forsyth County, Hydrologic Unit 03040101, on left bank 50 ft upstream from bridge on Secondary Road 1525, 1.5 mi east of Enon, 4 mi upstream from Forbush Creek, and 324 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,694 mi^2.

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. Datum of gage is 701.71 ft above sea level. 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 fair. Some regulation by W. Kerr Scott Reservoir (station 02111391). Minimum discharge for period of record also occurred Sept. 1, 1981.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2030	843	1190	1080	1270	1280	1560	1980	986	1070	931	832
2	1170	918	1130	1080	1240	1280	1520	1820	969	925	1100	1680
3	997	1650	1080	1070	1200	1250	3050	1720	e1100	881	1280	2730
4	931	1250	1020	1120	1220	1220	2970	1610	e1200	843	1050	3020
5	940	1040	1010	1320	1240	1180	3170	1570	e1250	1060	1410	2830
6	903	989	1090	1180	1250	1170	2570	1530	e1300	1130	975	1720
7	830	962	1180	1080	1260	1140	2110	1500	e1200	1120	845	1140
8	805	944	1130	1080	1310	1110	1910	1440	e1100	1030	807	1010
9	794	923	1050	1150	1350	1100	1980	1370	1000	861	813	964
10	889	911	1040	3420	1370	1090	1820	1340	956	845	1110	916
11	1680	909	1140	4280	1420	1110	1660	1300	934	806	1700	866
12	1360	972	1110	2800	1690	1510	1590	1260	901	772	977	830
13	1080	983	1050	2180	2610	2010	1580	1250	886	1820	842	782
14	1070	935	2210	1730	3390	1570	1710	1460	854	1440	794	1890
15	1010	919	3100	1480	3330	1320	1720	1250	870	1100	764	1090
16	943	888	2330	1340	2700	1350	3400	1150	1400	913	732	937
17	936	877	1820	1310	2130	2070	3120	1110	1120	836	708	762
18	926	876	1450	1340	1860	1830	4960	1130	1110	778	701	736
19	888	843	1360	1400	1810	1650	3690	1110	1050	760	721	2720
20	940	838	1360	1380	1690	2980	2890	1140	947	716	741	1660
21	1390	857	1460	1410	1570	8580	2350	1190	911	698	673	1050
22	1130	996	1430	1210	1500	4900	2140	1260	889	683	660	901
23	1020	1020	1390	1300	1470	3230	2170	1320	874	699	642	874
24	973	923	1300	1330	1430	2500	1730	1250	826	1110	625	894
25	943	929	1250	1290	1370	2220	2060	1240	788	998	652	989
26	916	1260	1200	1240	1340	2060	2430	1210	871	937	712	2950
27	869	3510	1170	1110	1330	1900	2160	1140	929	830	744	1630
28	861	2270	1140	1010	1400	1800	2170	1140	1170	832	1630	1050
29	846	1560	1110	1130	1340	1680	2760	1100	1590	846	921	916
30	847	1360	1100	1290	---	1640	2240	1060	1390	806	717	869
31	842	---	1090	1340	---	1630	---	1020	---	750	677	---
TOTAL	31759	34155	41490	46480	48090	61360	71190	40970	31371	28895	27654	41238
MEAN	1024	1138	1338	1499	1658	1979	2373	1322	1046	932	892	1375
MAX	2030	3510	3100	4280	3390	8580	4960	1980	1590	1820	1700	3020
MIN	794	838	1010	1010	1200	1090	1520	1020	788	683	625	736

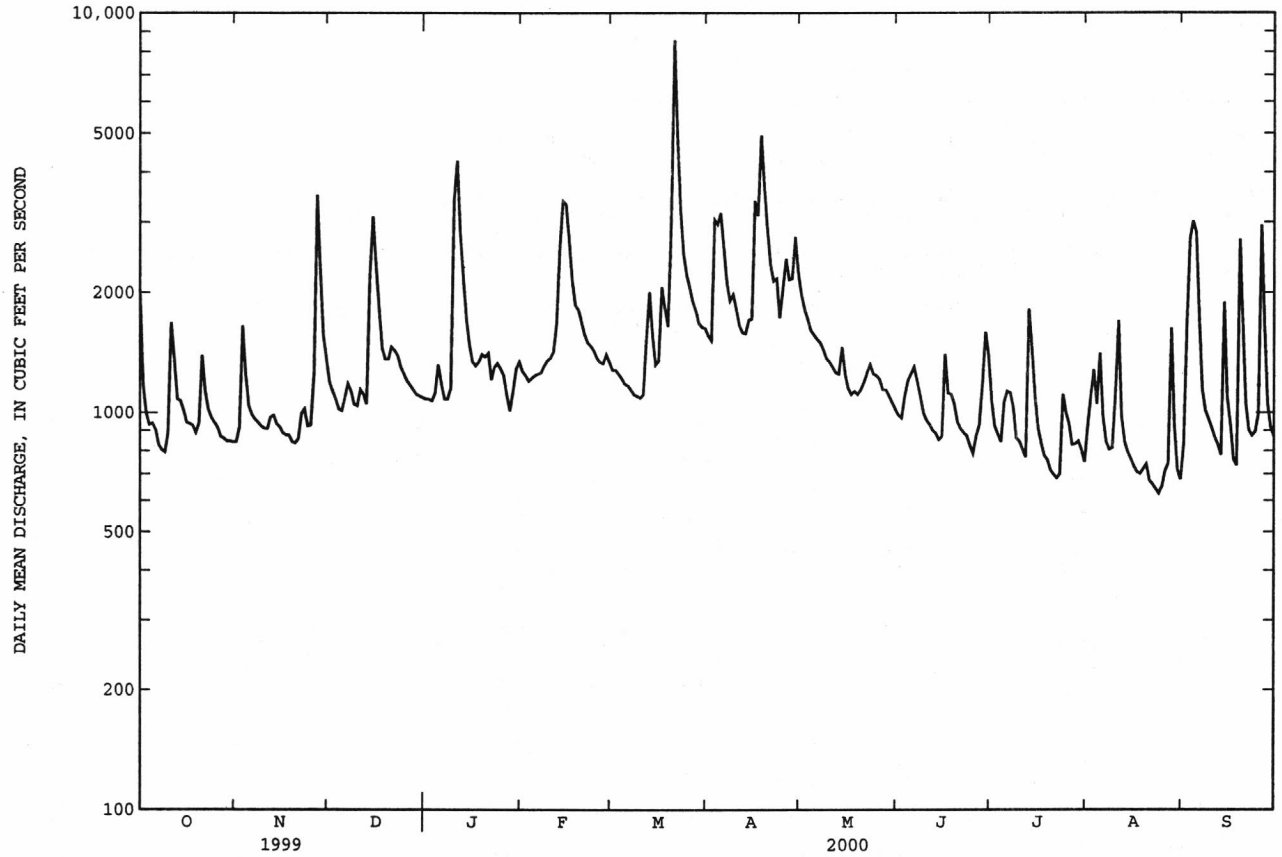
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	2036	2050	2310	2830	2988	3564	3367	2830	2479	1927	1987	1765
MAX	5371	5128	4814	5725	5645	7862	7337	4989	5435	3485	5611	5810
(WY)	1991	1978	1974	1978	1990	1993	1980	1973	1972	1989	1970	1979
MIN	689	896	1107	1051	1560	1443	1390	1298	748	654	623	815
(WY)	1989	1982	1966	1981	1989	1981	1985	1988	1988	1986	1988	1988

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	553992		504652			
ANNUAL MEAN	1518		1379		2506	
HIGHEST ANNUAL MEAN					3605	1973
LOWEST ANNUAL MEAN					1332	1988
HIGHEST DAILY MEAN	6540	Jan 24	8580	Mar 21	48400	Sep 22 1979
LOWEST DAILY MEAN	543	Sep 26	625	Aug 24	368	Sep 1 1981
ANNUAL SEVEN-DAY MINIMUM	585	Sep 21	672	Aug 20	384	Aug 26 1981
INSTANTANEOUS PEAK FLOW			10600	Mar 21	73300	Jun 21 1972
INSTANTANEOUS PEAK STAGE			11.99	Mar 21	29.52	Sep 22 1979
INSTANTANEOUS LOW FLOW			611	Aug 24	363*	Aug 31 1981
10 PERCENT EXCEEDS	2430		2190		4200	
50 PERCENT EXCEEDS	1360		1140		1900	
90 PERCENT EXCEEDS	777		830		1050	

e Estimated.
* See REMARKS.

02115360 YADKIN RIVER AT ENON, NC--Continued



02116500 YADKIN RIVER AT YADKIN COLLEGE, NC

LOCATION.--Lat 35°51'23", long 80°23'14", Davie County, Hydrologic Unit 03040101, on right bank on downstream side of bridge on U.S. Highway 64, 1.5 mi south of Yadkin College, 6.2 mi downstream of Reedy Creek, and 295 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 mi^2.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 638.45 ft above sea level. 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 and Yadkin, Inc. telephone 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 ft^3/s, Aug. 15, 1940; gage height: 33.75 ft; minimum observed discharge: 177 ft^3/s, Oct. 12, 1954; gage height: -0.42 ft. Minimum discharge for period of record, result of regulation.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3730	1150	1570	1450	2060	1740	1900	2520	1260	1440	967	908
2	1810	1320	1470	1450	1860	1730	1850	2250	1220	1170	1100	1550
3	1430	1690	1440	1450	1800	1690	3760	2120	1190	1070	1430	2130
4	1320	1890	1380	1530	1780	1650	4660	1960	1540	1010	1360	4070
5	1320	1450	1360	1960	1810	1620	3680	1880	1620	1070	1250	2570
6	1290	1340	1530	1730	1790	1580	3330	1850	2010	1330	1430	2590
7	1180	1320	1610	1520	1790	1580	2640	1800	1960	1520	1040	1500
8	1120	1280	1550	1470	1800	1540	2330	1750	1460	1410	1540	1240
9	1110	1280	1440	1510	1840	1530	2590	1670	1280	1130	999	1150
10	1160	1250	1400	3610	1840	1500	2300	1620	1190	1020	1520	1100
11	1880	1260	1460	6550	1890	1500	2070	1580	1150	966	1830	1040
12	1990	1280	1510	3670	2350	1790	1940	1530	1120	969	1410	989
13	1600	1360	1420	2900	3350	2170	1940	1510	1080	1430	1030	937
14	1570	1300	2400	2260	4380	2120	2070	1630	1040	2400	926	1970
15	1440	1260	3880	1970	4670	1770	2200	1640	1040	1470	864	1940
16	1320	1240	2880	1770	3510	1750	3040	1420	1220	1210	842	1450
17	1280	1210	2400	1720	2890	3530	3950	1360	1620	1040	786	1040
18	1270	1210	1900	1750	2500	2640	5970	1360	1210	964	806	904
19	1230	1190	1750	1810	2420	2250	5330	1370	1490	876	830	2920
20	1230	1180	1740	1850	2220	3050	3670	1340	1300	863	826	2920
21	1640	1190	1920	1920	2070	11600	2930	1660	1130	804	802	1550
22	1680	1320	2210	1740	1960	7460	2550	1920	1110	791	729	1380
23	1390	1440	1900	1630	1910	4430	2440	1660	1080	963	714	1310
24	1320	1340	1760	1800	1880	3100	2240	1540	1020	1200	687	1240
25	1270	1290	1690	1750	1840	2750	2240	1610	947	1230	662	1160
26	1250	1450	1610	1720	1800	2470	3140	1610	932	1220	745	3320
27	1220	3180	1570	1580	1790	2330	2660	1480	1160	1060	813	2840
28	1190	3010	1530	1380	1880	2210	2690	1440	1310	966	1450	1580
29	1170	2010	1490	1440	1830	2030	3640	1510	1880	1080	1400	1260
30	1160	1770	1470	e1800	---	1980	3000	1370	1820	1030	929	1130
31	1170	---	1450	e2100	---	1960	---	1290	---	894	839	---
TOTAL	44740	44460	54690	62790	65510	81050	88750	51250	39389	35596	32556	51688
MEAN	1443	1482	1764	2025	2259	2615	2958	1653	1313	1148	1050	1723
MAX	3730	3180	3880	6550	4670	11600	5970	2520	2010	2400	1830	4070
MIN	1110	1150	1360	1380	1780	1500	1850	1290	932	791	662	904

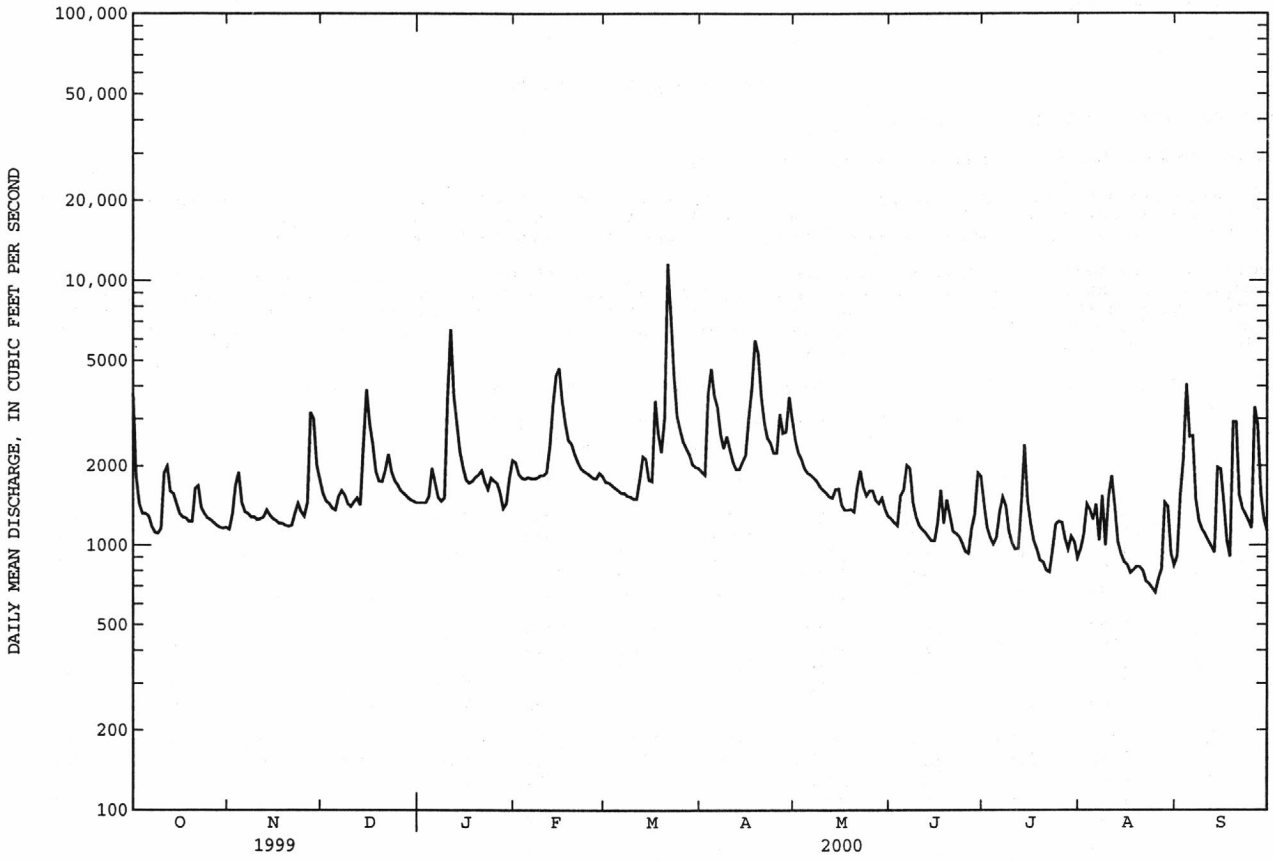
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000*, BY WATER YEAR (WY)

MEAN	2511	2510	2885	3611	3814	4627	4098	3437	2959	2329	2307	2106
MAX	7491	5844	5784	7580	7632	10380	9419	6277	7755	4622	7191	7314
(WY)	1991	1993	1974	1978	1990	1975	1987	1984	1972	1984	1970	1979
MIN	998	1091	1338	1354	2060	1798	1691	1565	1048	749	708	931
(WY)	1987	1982	1966	1981	1981	1981	1985	1986	1988	1986	1981	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000*	
ANNUAL TOTAL	695183		652469			
ANNUAL MEAN	1905		1783		3096	
HIGHEST ANNUAL MEAN					4524	1973
LOWEST ANNUAL MEAN					1591	1981
HIGHEST DAILY MEAN	9800	Jan 25	11600	Mar 21	66000	Jun 22 1972
LOWEST DAILY MEAN	599	Aug 19	662	Aug 25	350	Aug 28 1988
ANNUAL SEVEN-DAY MINIMUM	712	Aug 13	736	Aug 21	414	Aug 25 1981
INSTANTANEOUS PEAK FLOW			13400	Mar 21	75200*	Jun 22 1972
INSTANTANEOUS PEAK STAGE			11.17	Mar 21	32.81*	Jun 22 1972
INSTANTANEOUS LOW FLOW			644	Aug 25	110	Aug 28 1988
10 PERCENT EXCEEDS	2970		2880		5300	
50 PERCENT EXCEEDS	1660		1530		2300	
90 PERCENT EXCEEDS	961		1020		1270	

e Estimated.
* Regulated period only (1963-2000). See REMARKS.

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC--Continued



02116500 YADKIN RIVER AT YADKIN COLLEGE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1951 to 1995, 1997 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1964 to September 1967, October 1970 to September 1978, February 1979 to September 1989.

WATER TEMPERATURE: October 1943 to September 1944, October 1950 to September 1951, October 1955 to September 1967, October 1970 to September 1989.

SUSPENDED-SEDIMENT DISCHARGE: January 1951 to June 1995.

INSTRUMENTATION.--Water-quality monitor from October 1970 to September 1975.

REMARKS.--Station operated as part of NASQAN network from March 1979 to September 1992. Miscellaneous water-quality data published for water years 1947-49, 1955. Daily records of specific conductance for water years 1956-64 and specific conductance and water temperature for water years 1990 through 1995 are available in files of District office in Raleigh.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 815 microsiemens, Aug. 26, 1971; minimum recorded, 20 microsiemens, Nov. 2, 16, 28, Dec. 1, 6, 7, 1971.

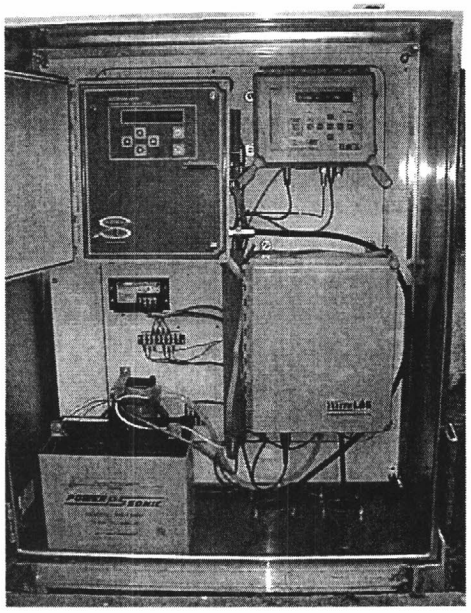
WATER TEMPERATURE: Maximum daily, 35.0°C, July 20, 1986; minimum daily, 0.0°C, on many days during most winter months.

SEDIMENT CONCENTRATION: Maximum daily mean, 2,970 mg/L, May 26, 1952; minimum daily mean, 1 mg/L, Dec. 3, 1953.

SEDIMENT LOAD: Maximum daily, 182,000 tons, June 22, 1972; minimum daily, 3 tons, Dec. 3, 1953.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
02...	1615	1690	98	447
09...	1345	1070	26	75
14...	1116	1520	41	169
16...	1345	1290	25	87
23...	1545	1350	21	75
30...	1315	1140	7	22
NOV				
06...	1315	1360	11	40
13...	1315	1360	14	51
19...	1315	1200	5	17
DEC				
06...	1331	1520	10	40
FEB				
07...	1214	1750	3	14
MAR				
02...	1600	1730	16	76
02...	1615	1730	17	78
03...	1500	1660	16	73
06...	1500	1610	12	50
19...	1300	2200	42	249
21...	0700	11800	887	28300
21...	0830	12600	726	24700
21...	0950	13000	764	26800
APR				
09...	1200	2580	60	415
APR				
15...	1730	2220	34	206
21...	1300	2930	137	1080
27...	1530	2550	50	348
MAY				
03...	1508	2070	37	206
06...	1400	1860	29	146
13...	1400	1500	35	143
24...	0800	1590	43	183
31...	1300	1280	32	110
JUN				
01...	1315	1230	50	164
21...	0945	1160	17	54
JUL				
04...	1000	1050	32	90
11...	1300	958	23	59
19...	1600	870	27	63
19...	1635	880	28	67
27...	1630	1010	28	77
AUG				
04...	2045	1280	30	102
12...	2030	1220	50	163
18...	1745	880	22	52
25...	1700	654	25	44
SEP				
07...	1330	1450	21	81



Instrumentation at USGS gaging station at Rocky River near Stanfield.

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC

LOCATION.--Lat 35°50'41", long 80°39'34", Rowan County, Hydrologic Unit 03040102, on right bank 90 ft downstream of bridge on Secondary Road 1972, 1 mi upstream from Little Creek, 4 mi downstream of Fifth Creek, 4.5 mi upstream from Hunting Creek, and 6.5 mi southwest of Mocksville.

DRAINAGE AREA.--306 mi^2.

PERIOD OF RECORD.--October 1938 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 663.62 ft above sea level. Yadkin Inc. satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. The City of Statesville diverted an average of 8.2 ft^3/s for water supply and waste treatment dilution. The Alexander Water Corporation withdrew an average of 1.8 ft^3/s for water supply. Maximum discharge for period of record also occurred Mar. 2, 1987. Minimum discharge for period of record also occurred July 24, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Oct. 3, 1929, reached a stage of 22.6 ft, from floodmark established by local resident (discharge, about 22,000 ft^3/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	86	127	123	258	181	194	377	110	123	54	62
2	114	107	128	129	232	176	186	311	106	88	56	93
3	85	161	119	128	207	171	328	285	102	77	52	182
4	78	174	114	131	206	166	841	255	98	74	65	228
5	89	124	112	172	209	166	625	235	114	72	78	136
6	97	108	133	179	204	165	399	219	154	79	61	109
7	83	104	163	150	199	157	322	205	137	97	54	86
8	74	101	146	143	197	154	286	191	109	130	50	75
9	72	99	125	154	195	153	294	182	99	75	97	69
10	75	98	120	487	194	151	257	174	94	71	87	66
11	143	100	122	876	193	151	234	164	91	67	93	62
12	194	161	126	425	272	172	229	153	83	58	69	59
13	135	206	127	294	523	171	215	149	82	67	50	56
14	118	151	168	242	735	152	221	142	80	80	46	54
15	116	121	278	206	705	148	345	134	78	85	44	51
16	101	110	219	199	421	164	454	126	96	75	41	48
17	92	107	176	189	333	396	522	124	91	65	38	45
18	89	104	156	182	291	352	1280	124	83	57	39	44
19	85	107	147	189	280	253	827	121	82	54	40	149
20	91	108	143	193	260	559	468	120	119	51	39	176
21	122	105	157	215	231	1530	362	157	93	50	37	103
22	130	107	216	e190	218	713	310	233	91	48	38	77
23	111	109	203	e186	206	426	274	237	84	51	33	87
24	96	114	169	e184	199	334	256	160	78	58	35	99
25	92	107	154	e180	200	289	325	143	71	72	33	99
26	95	145	144	e176	190	269	366	140	65	85	36	101
27	90	250	139	e174	186	250	292	131	85	79	36	189
28	89	234	138	e170	210	234	302	133	82	67	46	118
29	87	171	137	e176	203	217	660	138	119	87	45	85
30	87	137	130	e200	---	210	471	125	180	85	37	76
31	87	---	125	255	---	209	---	115	---	71	39	---
TOTAL	3211	3916	4661	6897	7957	8839	12145	5503	2956	2298	1568	2884
MEAN	104	131	150	222	274	285	405	178	98.5	74.1	50.6	96.1
MAX	194	250	278	876	735	1530	1280	377	180	130	97	228
MIN	72	86	112	123	186	148	186	115	65	48	33	44
CFSM	.34	.43	.49	.73	.90	.93	1.32	.58	.32	.24	.17	.31
IN.	.39	.48	.57	.84	.97	1.07	1.48	.67	.36	.28	.19	.35

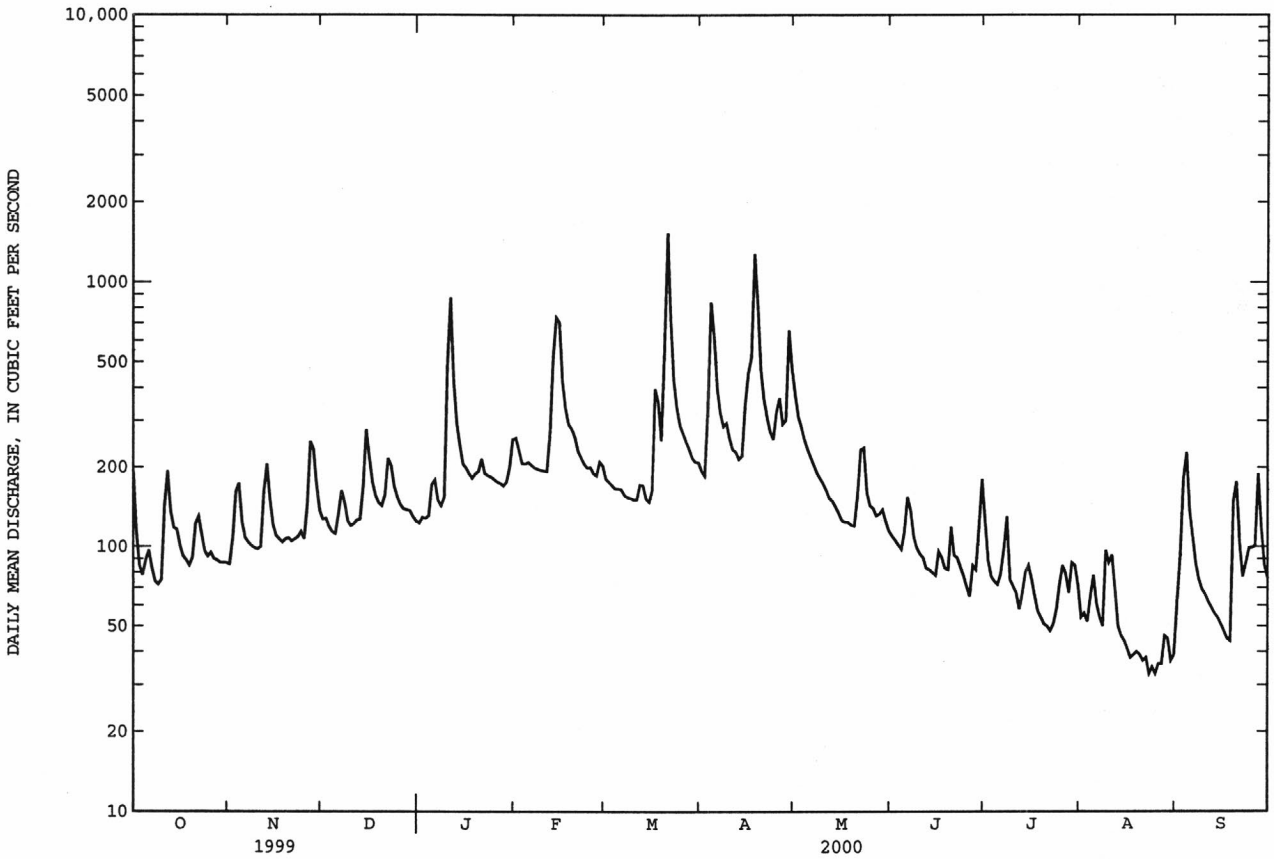
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	256	262	338	428	501	545	472	367	297	232	227	230
MAX	1246	791	738	1088	1458	1485	1110	885	774	628	706	880
(WY)	1965	1958	1962	1978	1960	1975	1958	1984	1972	1941	1970	1979
MIN	70.4	99.7	102	97.7	181	220	159	127	75.0	47.3	50.6	45.7
(WY)	1955	1956	1956	1956	1941	1955	1986	1986	1986	1986	2000	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	66277		62835			
ANNUAL MEAN	182		172		345	
HIGHEST ANNUAL MEAN					592	1960
LOWEST ANNUAL MEAN					171	1986
HIGHEST DAILY MEAN	1660	May 1	1530	Mar 21	9750	Mar 2 1987
LOWEST DAILY MEAN	42	Aug 19	33	Aug 23	22	Jul 22 1986
ANNUAL SEVEN-DAY MINIMUM	49	Aug 14	35	Aug 21	28	Jul 19 1986
INSTANTANEOUS PEAK FLOW			1770	Mar 21	11800*	Oct 17 1964
INSTANTANEOUS PEAK STAGE			6.97	Mar 21	18.88	Mar 2 1987
INSTANTANEOUS LOW FLOW			31	Aug 25	21*	Jul 22 1986
ANNUAL RUNOFF (CFSM)	.59		.56		1.13	
ANNUAL RUNOFF (INCHES)	8.06		7.64		15.34	
10 PERCENT EXCEEDS	293		294		590	
50 PERCENT EXCEEDS	153		131		240	
90 PERCENT EXCEEDS	63		58		120	

e Estimated
* See REMARKS.

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC--Continued



02118500 HUNTING CREEK NEAR HARMONY, NC

LOCATION.--Lat 36°00'00", long 80°44'44", Iredell County, Hydrologic Unit 03040102, on right bank 52 ft downstream of bridge on Secondary Road 2115, 0.8 mi downstream of Kennedy Creek, 1 mi east of Houstonville, 2 mi downstream of U.S. Highway 21, and 3.5 mi northeast of Harmony.

DRAINAGE AREA.--155 mi^2.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

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

GAGE.--Water-stage recorder. Datum of gage is 734.78 ft above sea level. Prior to Apr. 5, 1951, nonrecording gage on upstream side of bridge at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from high-water mark in gage house. Minimum discharge for current water year also occurred Aug. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	66	91	88	e116	105	114	188	83	84	50	67
2	93	102	89	86	119	103	114	166	79	73	48	69
3	79	143	87	86	115	100	465	152	76	67	55	176
4	77	93	85	97	116	99	398	141	100	68	55	147
5	86	84	83	140	120	98	280	133	102	77	49	115
6	73	81	104	105	116	95	206	125	104	71	45	86
7	68	78	97	99	115	94	174	119	90	131	43	66
8	65	76	87	95	118	93	166	113	80	81	50	59
9	64	74	85	105	118	92	159	109	76	68	51	57
10	79	74	87	470	117	91	139	106	72	62	96	52
11	118	86	93	336	117	94	132	102	69	57	71	48
12	90	155	86	193	191	114	127	100	67	59	49	47
13	81	101	86	155	274	99	126	97	65	97	43	45
14	87	90	216	134	345	95	132	96	63	84	44	43
15	75	84	182	120	264	93	193	91	63	70	43	100
16	70	81	132	114	193	116	269	89	74	62	40	62
17	68	79	114	109	163	251	220	88	69	56	37	48
18	67	78	105	117	150	148	506	88	65	53	37	46
19	64	78	100	112	144	126	264	85	67	52	39	152
20	78	77	101	118	131	504	202	84	66	51	37	101
21	126	78	114	e110	123	690	174	118	66	48	39	66
22	92	79	130	e106	118	317	155	128	62	48	39	60
23	79	78	113	117	115	221	145	103	60	51	36	77
24	72	78	106	105	112	181	139	94	55	71	34	81
25	70	98	103	104	109	160	216	93	53	79	34	71
26	70	175	99	101	107	155	209	96	64	66	39	469
27	69	193	99	e96	108	139	178	92	82	61	39	155
28	68	122	95	e94	128	135	252	122	117	57	38	100
29	67	104	93	e90	109	124	341	110	222	54	38	80
30	67	95	91	e110	---	128	236	93	118	53	35	71
31	67	---	90	e150	---	123	---	85	---	50	41	---
TOTAL	2463	2880	3243	4062	4171	4983	6431	3406	2429	2061	1394	2816
MEAN	79.5	96.0	105	131	144	161	214	110	81.0	66.5	45.0	93.9
MAX	134	193	216	470	345	690	506	188	222	131	96	469
MIN	64	66	83	86	107	91	114	84	53	48	34	43
CFSM	.51	.62	.67	.85	.93	1.04	1.38	.71	.52	.43	.29	.61
IN.	.59	.69	.78	.97	1.00	1.20	1.54	.82	.58	.49	.33	.68

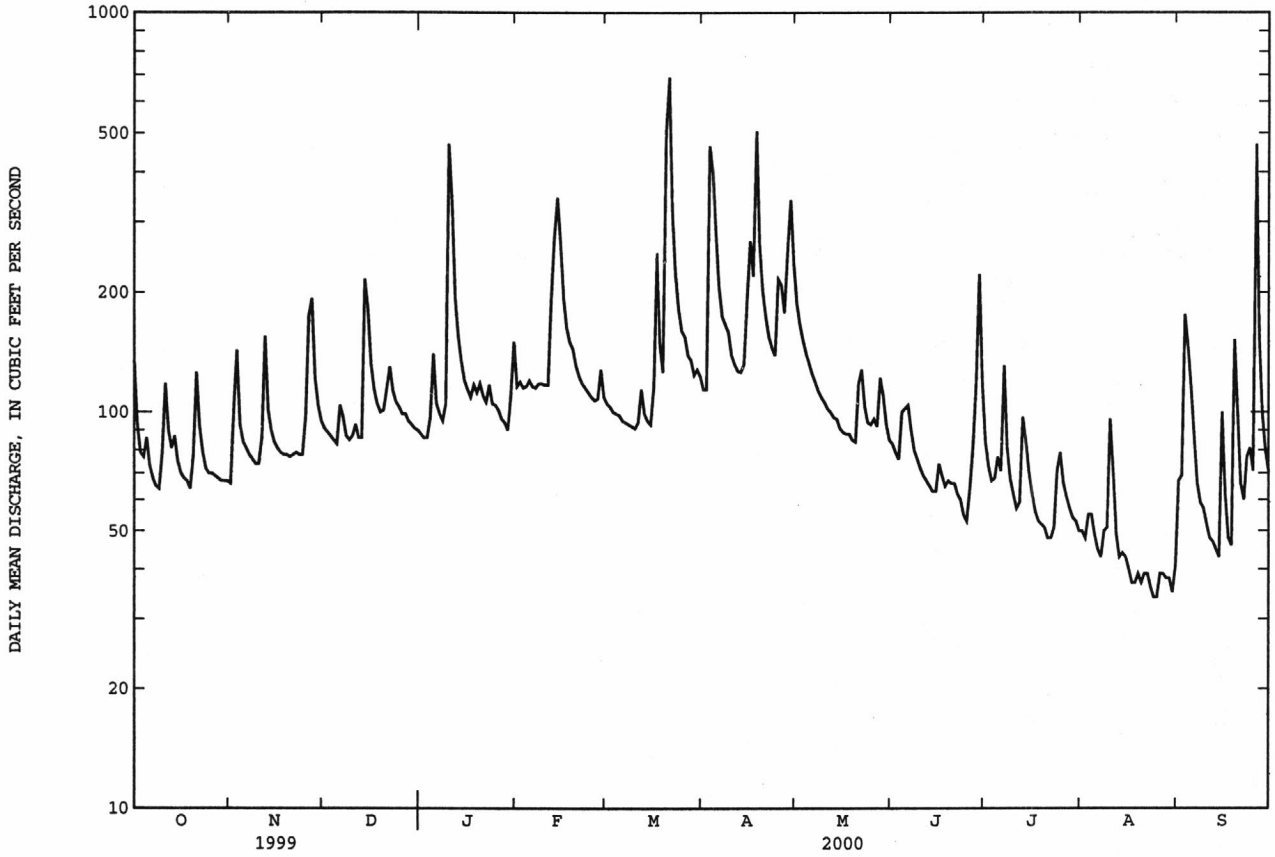
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	153	155	195	234	272	322	299	226	191	141	139	140
MAX	654	508	373	585	752	959	713	527	636	355	383	615
(WY)	1965	1978	1974	1978	1960	1975	1987	1990	1972	1987	1970	1979
MIN	50.0	56.9	53.1	56.4	132	123	101	92.8	63.3	41.2	39.4	40.4
(WY)	1955	1956	1956	1956	1977	1956	1995	1981	1956	1986	1997	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	41945		40339			
ANNUAL MEAN	115		110		205	
HIGHEST ANNUAL MEAN					346	1960
LOWEST ANNUAL MEAN					101	1956
HIGHEST DAILY MEAN	856	Jan 24	690	Mar 21	10400	Sep 22 1979
LOWEST DAILY MEAN	33	Aug 19	34	Aug 24	22	Sep 16 1956
ANNUAL SEVEN-DAY MINIMUM	39	Aug 13	37	Aug 24	23	Sep 2 1997
INSTANTANEOUS PEAK FLOW			1210	Mar 20	14800	Sep 22 1979
INSTANTANEOUS PEAK STAGE			5.87	Mar 20	25.05*	Sep 22 1979
INSTANTANEOUS LOW FLOW			33*	Aug 24	18	Oct 8 1954
ANNUAL RUNOFF (CFSM)	.74		.71		1.33	
ANNUAL RUNOFF (INCHES)	10.07		9.68		18.01	
10 PERCENT EXCEEDS	179		177		336	
50 PERCENT EXCEEDS	98		93		143	
90 PERCENT EXCEEDS	52		51		71	

e Estimated.
* See REMARKS.

02118500 HUNTING CREEK NEAR HARMONY, NC--Continued



02120780 SECOND CREEK NEAR BARBER, NC

LOCATION.--Lat 35°43'05", long 80°35'45", Rowan County, Hydrologic Unit 03040102, on right bank 70 ft upstream from bridge on U.S. Highway 70, 1.3 mi downstream of Withrow Creek, and 2.7 mi east of Barber.

DRAINAGE AREA.--118 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-57, 1961-63. April 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.31 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation caused by industry 0.7 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	26	28	36	102	51	59	72	22	9.8	9.2	11
2	18	51	29	36	82	51	60	66	20	9.0	9.6	14
3	17	48	30	36	71	48	117	79	19	8.2	13	20
4	17	33	29	42	67	48	91	61	29	6.7	11	39
5	25	27	29	48	60	48	69	57	27	8.2	33	20
6	17	28	42	37	57	45	63	54	28	8.3	9.9	9.7
7	15	28	35	37	55	44	59	50	20	30	8.1	9.9
8	14	26	31	35	53	44	64	41	18	15	8.3	9.7
9	14	26	30	51	52	43	71	39	17	6.9	7.8	9.4
10	17	26	36	316	51	42	57	37	16	8.4	25	8.3
11	552	41	40	164	50	45	54	34	14	9.2	9.2	7.5
12	126	55	32	91	129	59	53	33	14	9.8	6.5	7.6
13	e64	32	32	69	139	47	59	32	13	17	7.6	7.1
14	e56	31	81	57	342	42	63	30	12	15	12	6.4
15	e54	29	56	53	165	42	125	28	12	11	8.0	5.8
16	e52	28	51	52	112	78	132	28	13	8.8	7.0	5.6
17	e50	28	41	48	92	399	93	28	12	7.4	6.1	7.1
18	e48	28	33	52	85	123	136	26	11	6.9	5.4	9.0
19	e44	28	36	51	79	95	90	25	11	6.2	5.8	51
20	e42	28	39	79	68	564	74	23	11	11	5.4	21
21	45	30	123	75	63	518	68	29	11	8.9	6.7	13
22	34	32	142	59	60	208	63	64	9.8	7.6	7.6	11
23	26	30	74	63	57	137	61	29	9.5	20	4.9	38
24	32	28	63	63	55	110	56	29	8.3	27	5.3	22
25	32	28	55	66	55	95	77	28	7.5	21	4.6	19
26	32	54	53	63	53	84	69	27	7.2	18	5.1	25
27	32	46	51	61	54	79	64	24	6.9	13	5.1	12
28	28	34	48	67	63	80	128	23	13	10	5.9	10
29	25	32	43	59	52	66	156	48	18	8.8	5.8	9.2
30	25	29	37	e100	---	65	98	25	15	7.2	5.2	9.7
31	25	---	37	e160	---	62	---	23	---	7.1	6.5	---
TOTAL	1597	990	1486	2226	2423	3462	2429	1192	445.2	361.4	270.6	448.0
MEAN	51.5	33.0	47.9	71.8	83.6	112	81.0	38.5	14.8	11.7	8.73	14.9
MAX	552	55	142	316	342	564	156	79	29	30	33	51
MIN	14	26	28	35	50	42	53	23	6.9	6.2	4.6	5.6
CFSM	.44	.28	.41	.61	.71	.95	.69	.33	.13	.10	.07	.13
IN.	.50	.31	.47	.70	.76	1.09	.77	.38	.14	.11	.09	.14

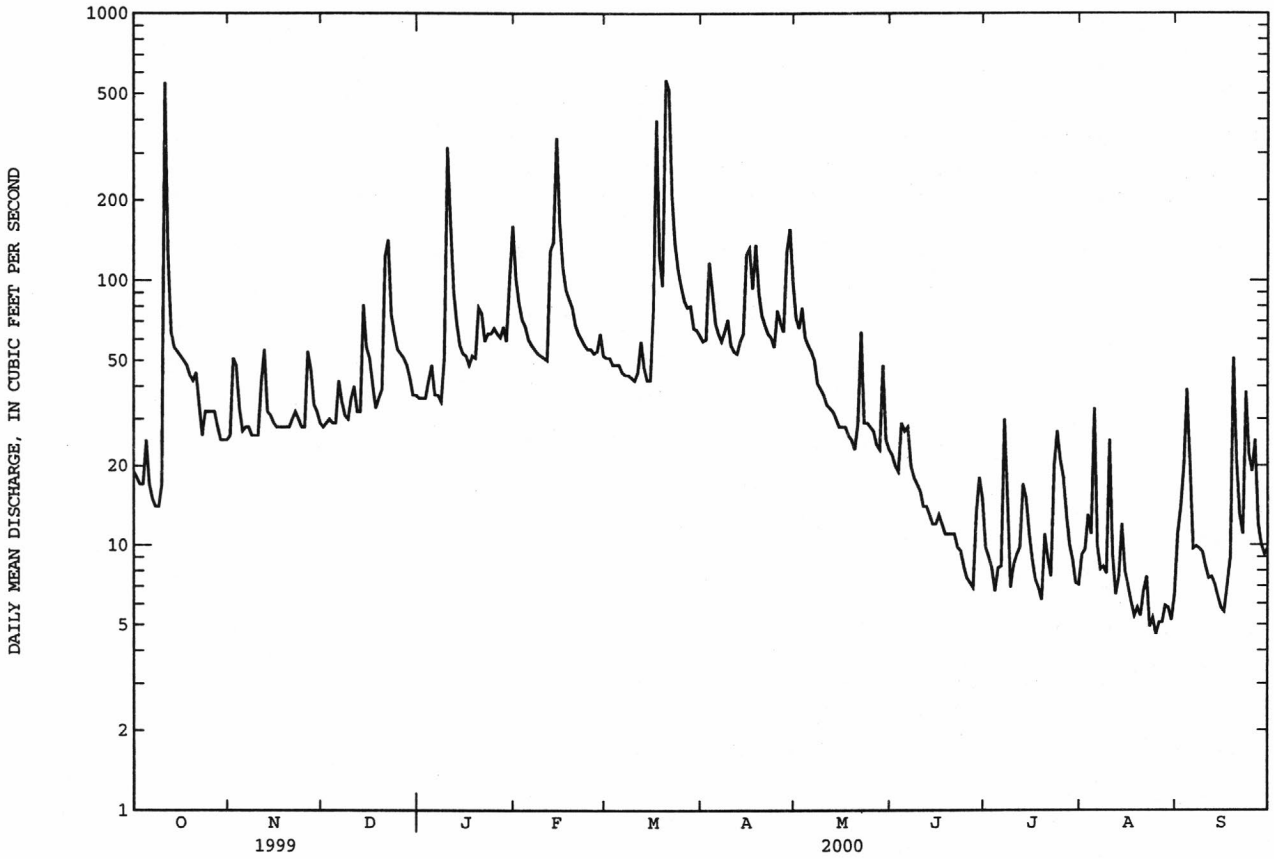
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

MEAN	91.4	91.8	99.0	149	174	194	146	89.2	89.7	54.5	60.3	56.6
MAX	419	262	222	317	301	476	390	178	243	98.3	304	196
(WY)	1991	1996	1984	1998	1990	1993	1987	1990	1992	1989	1995	1979
MIN	15.8	25.4	36.7	38.9	70.7	60.3	45.5	29.6	13.0	11.7	8.73	11.7
(WY)	1987	1999	1999	1981	1986	1999	1986	1986	1986	2000	2000	1986

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000	
ANNUAL TOTAL	18099.0		17330.2			
ANNUAL MEAN	49.6		47.4		107	
HIGHEST ANNUAL MEAN					171	1991
LOWEST ANNUAL MEAN					45.2	1999
HIGHEST DAILY MEAN	764	Apr 30	564	Mar 20	5280	Aug 28 1995
LOWEST DAILY MEAN	8.1	Sep 23	4.6	Aug 25	4.6	Aug 25 2000
ANNUAL SEVEN-DAY MINIMUM	9.4	Sep 18	5.2	Aug 23	5.2	Aug 23 2000
INSTANTANEOUS PEAK FLOW			1280	Oct 11	8560	Aug 28 1995
INSTANTANEOUS PEAK STAGE			9.57	Oct 11	17.28	Aug 28 1995
INSTANTANEOUS LOW FLOW			3.7	Aug 25	3.7	Aug 25 2000
ANNUAL RUNOFF (CFSM)	.42		.40		.90	
ANNUAL RUNOFF (INCHES)	5.71		5.46		12.27	
10 PERCENT EXCEEDS	74		84		166	
50 PERCENT EXCEEDS	35		32		65	
90 PERCENT EXCEEDS	14		7.7		24	

e Estimated.

02120780 SECOND CREEK NEAR BARBER, NC--Continued



02121500 ABBOTTS CREEK AT LEXINGTON, NC

LOCATION.--Lat 35°48'23", long 80°14'05", Davidson County, Hydrologic Unit 03040103, on right bank 150 ft upstream from bridge on Secondary Road 1243, 1.5 mi southeast of Lexington, and 4.5 mi downstream of Rich Fork Creek.

DRAINAGE AREA.--174 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 630 ft above sea level, from topographic map. March 1940 to December 1957 at site 100 ft upstream at different datum. Satellite telemetry and rain gage at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. The City of Lexington diverted an average of 5.6 ft^3/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 6.0 ft^3/s of treated sewage effluent into Rich Fork Creek, upstream from station. Maximum discharge at former site, 14,800 ft^3/s, from floodmark; minimum discharge at former site 0.4 ft^3/s. Minimum discharge for period of record also occurred Sept. 5, 1990. Minimum discharge for current water year also occurred July 21, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	29	72	55	552	79	85	119	48	50	84	32
2	77	32	64	55	382	79	81	92	46	47	68	53
3	49	47	60	54	268	74	180	101	43	41	35	e100
4	42	53	59	59	292	72	366	74	79	38	37	e200
5	40	46	57	92	259	70	184	63	e46	35	77	e76
6	39	39	56	79	200	67	126	60	e56	35	35	37
7	33	35	e66	65	171	65	108	53	52	71	22	26
8	27	33	54	58	163	63	115	48	50	e40	19	23
9	23	31	50	73	150	63	347	46	48	e34	18	20
10	22	30	53	614	140	62	177	46	45	e30	102	19
11	145	30	74	716	130	61	121	46	42	e26	84	16
12	150	30	57	250	421	70	104	45	40	e60	30	16
13	98	30	54	150	911	62	102	45	37	e30	20	15
14	195	30	310	114	809	56	147	43	35	e20	16	14
15	97	30	318	90	714	57	181	42	35	e18	17	19
16	61	29	134	81	294	93	197	41	34	e16	16	26
17	51	28	94	81	197	945	163	40	34	e15	15	15
18	56	26	76	85	210	511	203	38	33	e14	20	15
19	56	26	68	95	275	192	174	37	32	e13	26	e100
20	49	27	65	128	187	254	131	36	31	e12	19	e80
21	69	29	96	193	144	781	105	46	31	11	14	26
22	84	31	254	122	130	565	93	277	29	14	13	21
23	70	32	154	110	117	244	87	99	28	17	14	e60
24	52	35	109	132	108	172	84	56	28	110	13	e84
25	48	35	91	e140	104	144	83	53	27	79	13	e80
26	43	88	75	146	98	138	89	68	27	45	13	e200
27	39	368	71	118	92	128	86	58	26	31	13	e90
28	36	188	68	93	94	146	175	67	25	24	17	48
29	33	117	67	e86	86	114	512	120	47	21	25	32
30	31	89	59	e400	---	99	211	61	60	19	18	25
31	29	---	56	e730	---	98	---	51	---	17	22	---
TOTAL	2050	1673	2941	5264	7698	5624	4817	2071	1194	1033	935	1568
MEAN	66.1	55.8	94.9	170	265	181	161	66.8	39.8	33.3	30.2	52.3
MAX	206	368	318	730	911	945	512	277	79	110	102	200
MIN	22	26	50	54	86	56	81	36	25	11	13	14
CFSM	.38	.32	.55	.98	1.53	1.04	.92	.38	.23	.19	.17	.30
IN.	.44	.36	.63	1.13	1.65	1.20	1.03	.44	.26	.22	.20	.34

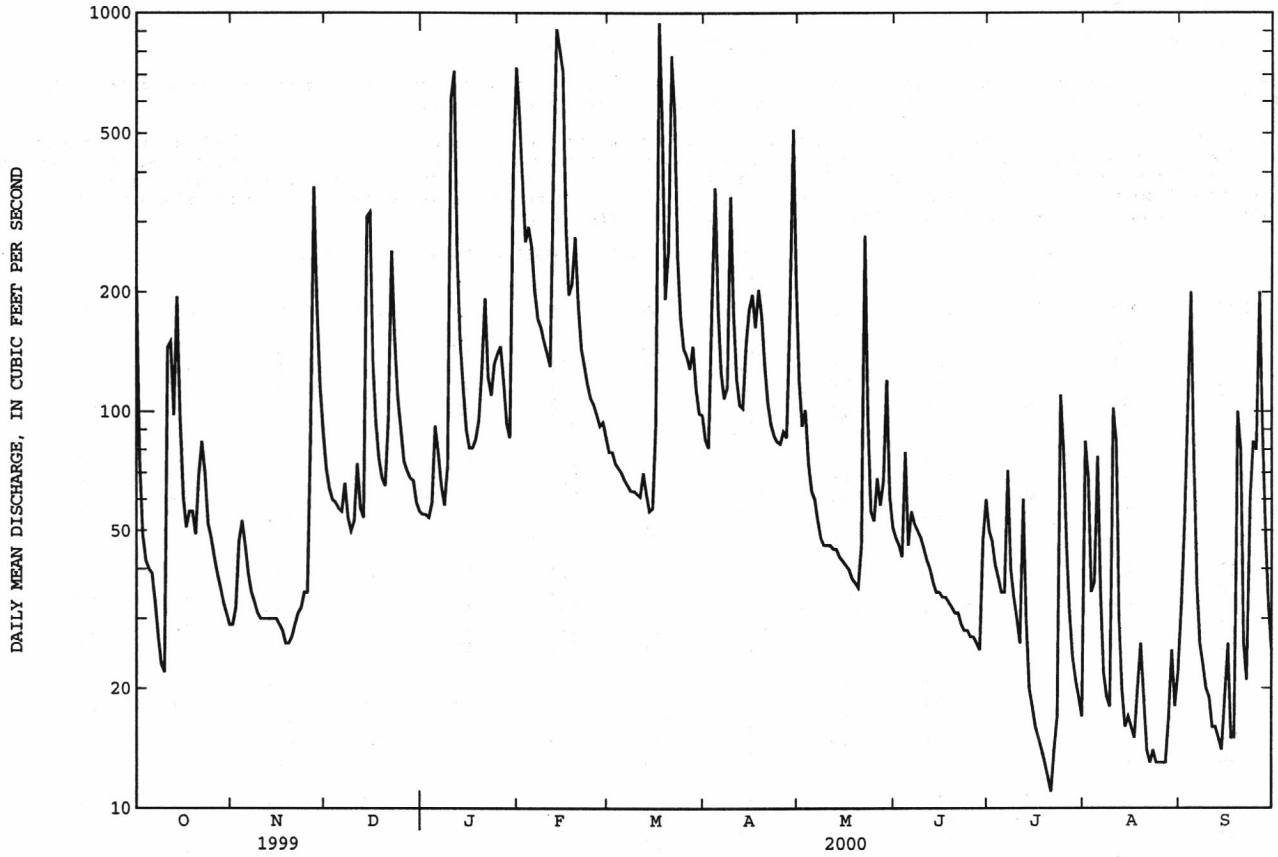
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	176	116	135	296	308	367	270	184	84.1	55.4	55.4	80.4
MAX	731	282	319	554	753	781	506	515	182	115	102	397
(WY)	1990	1996	1990	1998	1990	1993	1993	1989	1989	1995	1989	1996
MIN	9.33	13.5	41.5	108	102	83.7	46.6	43.0	21.2	21.6	14.9	21.8
(WY)	1999	1999	1995	1989	1999	1999	1995	1995	1999	1996	1990	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	37113.2		36868			
ANNUAL MEAN	102		101		177	
HIGHEST ANNUAL MEAN					281	1990
LOWEST ANNUAL MEAN					90.3	1999
HIGHEST DAILY MEAN	2180	Jan 25	945	Mar 17	7120	Oct 2 1989
LOWEST DAILY MEAN	7.3	Aug 10	11	Jul 21	2.7	Sep 4 1990
ANNUAL SEVEN-DAY MINIMUM	8.0	Aug 8	13	Aug 21	3.9	Sep 1 1990
INSTANTANEOUS PEAK FLOW			1150	Mar 17	8380*	Oct 2 1989
INSTANTANEOUS PEAK STAGE			8.87	Mar 17	20.30*	Apr 22 1992
INSTANTANEOUS LOW FLOW			11*	Jul 20	2.4*	Sep 4 1990
ANNUAL RUNOFF (CFSM)	.58		.58		1.02	
ANNUAL RUNOFF (INCHES)	7.93		7.88		13.80	
10 PERCENT EXCEEDS	197		200		338	
50 PERCENT EXCEEDS	52		60		77	
90 PERCENT EXCEEDS	16		20		17	

e Estimated.
* See REMARKS.

02121500 ABBOTTS CREEK AT LEXINGTON, NC--Continued



02122699 TUCKERTOWN RESERVOIR

LOCATION.--Lat 35°29'03", long 80°10'30", Montgomery County, Hydrologic Unit 03040102, Tuckertown Reservoir Dam.

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

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

REMARKS.--Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	.00	.00	.01	.00	.00	.30	.19
2	.00	.28	.00	.00	.00	.00	.15	.01	.00	.00	.01	1.13
3	.00	.00	.00	.00	.00	.00	.11	.00	.07	.00	.11	.05
4	.10	.00	.00	.17	.00	.14	.05	.00	.05	.00	.11	1.50
5	.00	.00	.00	.00	.00	.01	.00	.00	.34	.00	.00	.02
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.05	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
8	.00	.00	.00	.07	.00	.00	.66	.00	.00	.05	.18	.00
9	.00	.00	.00	.41	.00	.00	.00	.00	.00	.00	.00	.00
10	1.27	.00	.25	.52	.00	.00	.00	.02	.00	.00	.32	.00
11	2.26	.01	.00	.00	.00	.31	.00	.00	.00	.06	.00	.00
12	.00	.00	.00	.00	.57	.00	.00	.00	.00	.00	.00	.00
13	1.40	.00	.06	.00	.04	.00	.22	.21	.00	.72	.00	.00
14	.00	.00	.32	.00	.46	.00	.20	.00	.01	.32	.00	.06
15	.00	.00	.00	.00	.00	.00	.17	.00	.00	.01	.00	.00
16	.00	.00	.00	.00	.00	.45	.00	.00	.00	.00	.00	.00
17	.23	.00	.00	.00	.09	.01	.20	.00	.04	.00	.00	.00
18	.00	.00	.00	.00	.28	.00	.00	.00	.02	.00	.00	.60
19	.13	.00	.14	.27	.01	.00	.00	.00	.00	.36	.00	.16
20	.78	.00	.09	.09	.00	.54	.00	.00	.00	.00	.00	.00
21	.00	.21	.14	.00	.00	.04	.00	.81	.00	.00	.00	.01
22	.00	.02	.01	.00	.00	.00	.00	.03	.00	.01	.00	1.03
23	.00	.00	.00	.19	.00	.00	.00	.00	.00	.67	.00	2.74
24	.00	.00	.00	.35	.00	.00	.17	.08	.00	.27	.03	.00
25	.00	.01	.00	.36	.00	.00	.09	.02	.27	.41	.00	.64
26	.00	.84	.00	.00	.00	.00	.27	.00	.00	.03	.00	.00
27	.00	.00	.00	.00	.09	.68	.12	.00	.04	.00	.00	.00
28	.00	.00	.00	.01	.00	.00	.60	.12	.10	.00	.48	.00
29	.00	.00	.00	.00	.00	.02	.00	.02	.11	.00	.00	.00
30	.00	.00	.00	.00	---	.01	.00	.00	.00	.00	.27	.00
31	.00	---	.00	.03	---	.00	---	.00	---	.34	.18	---
TOTAL	6.17	1.37	1.03	2.47	1.55	2.21	3.01	1.33	1.05	3.31	1.99	8.13

USGS gaging station at Little River at SR 1461 near Orange Factory.

02123567 DUTCHMANS CREEK NEAR UWHARRIE, NC

LOCATION.--Lat 35°22'05", long 80°01'49", Montgomery County, Hydrologic Unit 03040103, 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 mi^2.

PERIOD OF RECORD.--October 1981 to September 1983, October 1985 to current year.

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

REMARKS.--No estimated daily discharges. Records good. Maximum gage height for period of record, from floodmark. Minimum discharge for period of record also occurred periodically in July and Oct. 1986. Minimum discharge for current water year also occurred Aug. 28, Sept. 16, 17, 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.3	1.4	1.3	9.6	2.9	3.4	3.1	.83	.56	7.8	.47
2	1.5	3.3	1.3	1.3	7.4	2.9	3.4	2.7	.80	.50	2.9	1.0
3	1.3	2.7	1.3	1.3	7.8	2.7	3.6	2.4	.73	.46	.91	1.5
4	1.2	2.3	1.3	1.5	8.8	3.2	3.4	2.2	1.0	.41	1.2	1.3
5	1.2	2.3	1.3	1.8	8.2	3.1	3.1	2.1	1.9	.39	1.1	.67
6	1.0	2.4	1.4	1.3	6.8	2.8	3.0	2.0	1.5	.40	.71	.55
7	.92	2.3	1.3	1.3	6.6	2.7	2.9	1.9	.92	1.3	.59	.47
8	.86	2.3	1.2	1.3	6.5	2.6	5.4	1.8	.83	.69	.52	.41
9	.87	2.3	1.3	1.8	6.1	2.7	5.5	1.7	.79	.51	.48	.38
10	2.7	2.2	1.5	18	5.5	2.6	4.0	1.7	.74	.43	.82	.35
11	87	2.2	1.5	5.0	4.9	2.7	3.6	1.6	.69	.37	.63	.34
12	8.3	2.2	1.3	2.9	14	2.9	3.4	1.6	.65	1.1	.47	.33
13	6.9	2.1	1.4	2.3	8.6	2.5	3.9	1.5	.64	.71	.42	.31
14	4.7	2.2	4.5	1.9	17	2.5	3.9	1.4	.62	.66	.38	.30
15	3.3	2.2	2.2	1.7	7.8	2.4	5.0	1.2	.68	.54	.36	.30
16	2.8	2.1	1.7	1.7	5.6	2.7	5.1	1.2	.65	.44	.35	.25
17	3.1	2.1	1.5	1.6	4.6	3.3	4.0	1.1	.59	.38	.34	.23
18	3.1	2.1	1.4	1.8	7.0	2.5	6.2	1.2	.55	.33	.32	.29
19	2.5	2.0	1.6	1.9	5.6	2.5	4.2	1.1	.48	.33	.36	.98
20	4.5	2.1	1.7	5.1	4.5	4.9	3.5	1.0	.48	.73	.32	.48
21	7.2	2.3	1.8	3.0	3.9	4.3	3.2	1.1	.49	.46	.29	.37
22	3.8	2.5	2.0	2.3	3.6	3.5	2.9	2.1	.46	.44	.27	1.1
23	3.0	2.2	1.7	3.9	3.4	3.2	2.7	1.2	.44	.41	.26	8.8
24	2.6	2.1	1.6	4.5	3.3	3.0	2.6	1.2	.40	1.5	.25	1.4
25	2.4	2.0	1.4	4.7	3.2	2.9	2.8	1.1	.51	.70	.27	1.1
26	2.4	5.6	1.4	4.1	3.1	3.0	2.5	1.2	1.3	.72	.26	1.6
27	2.4	3.4	1.4	3.4	3.3	4.8	4.0	.99	.59	.57	.23	.74
28	2.2	1.9	1.4	3.1	3.6	6.9	7.5	.95	.69	.48	.68	.56
29	2.2	1.6	1.3	2.9	3.0	4.6	5.8	1.0	1.1	.41	.44	.47
30	2.2	1.5	1.3	22	---	4.1	3.8	.92	.74	.40	.38	.44
31	2.3	---	1.3	16	---	3.8	---	.86	---	.38	.63	---
TOTAL	172.65	70.8	48.7	126.7	183.3	101.2	118.3	47.12	22.79	17.71	24.94	27.49
MEAN	5.57	2.36	1.57	4.09	6.32	3.26	3.94	1.52	.76	.57	.80	.92
MAX	87	5.6	4.5	22	17	6.9	7.5	3.1	1.9	1.5	7.8	8.8
MIN	.86	1.5	1.2	1.3	3.0	2.4	2.5	.86	.40	.33	.23	.23
CFSM	1.62	.69	.46	1.19	1.84	.95	1.15	.44	.22	.17	.23	.27
IN.	1.87	.77	.53	1.37	1.98	1.09	1.28	.51	.25	.19	.27	.30

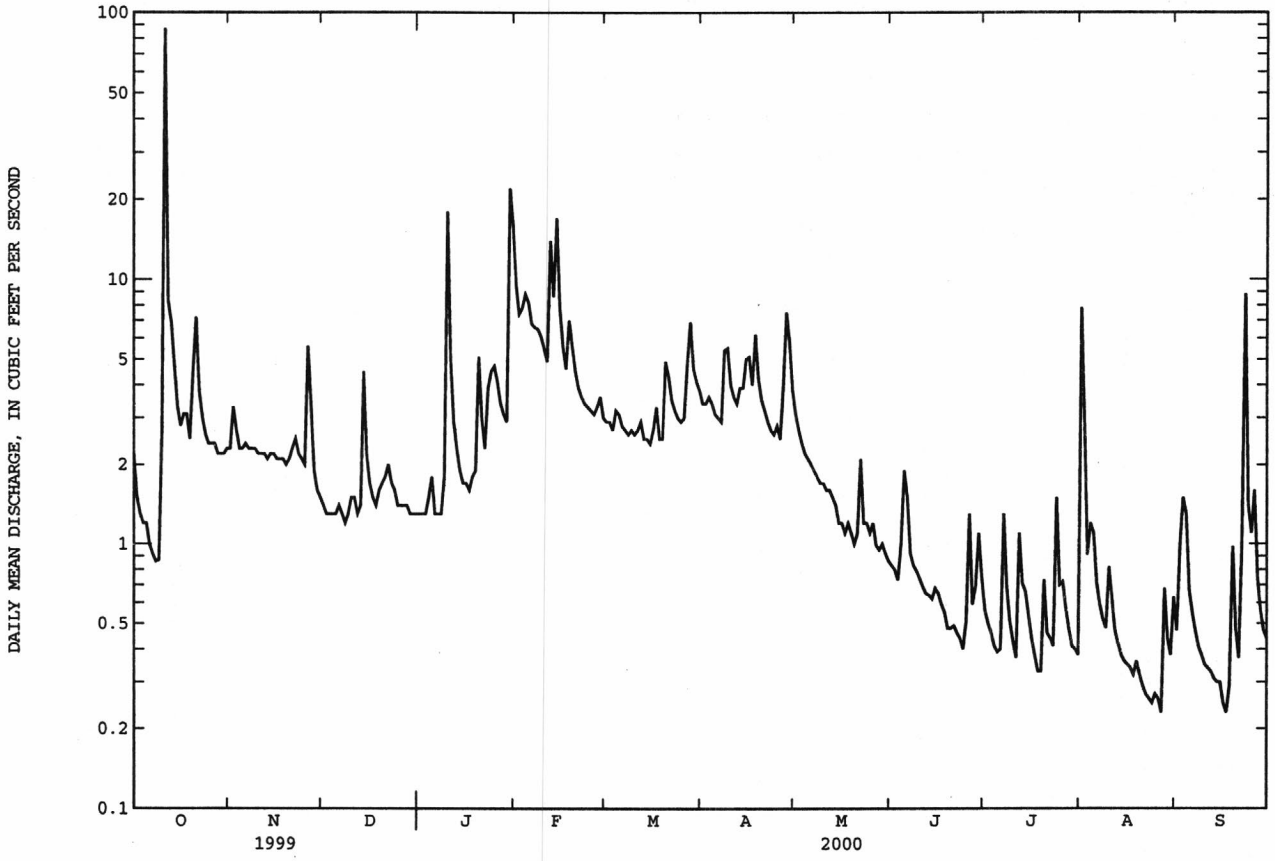
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000@, BY WATER YEAR (WY)

MEAN	3.19	2.81	2.76	5.79	6.30	7.62	5.34	2.91	1.84	1.57	1.83	1.63
MAX	11.9	8.69	4.81	17.5	15.9	22.5	10.2	6.49	5.28	8.80	11.2	7.81
(WY)	1991	1986	1991	1998	1998	1998	1992	1990	1994	1997	1996	1996
MIN	.19	.75	1.27	1.55	1.83	2.86	1.41	.82	.24	.26	.25	.20
(WY)	1987	1994	1992	1992	1986	1999	1986	1986	1986	1986	1993	1986

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000@	
ANNUAL TOTAL	926.13		961.70			
ANNUAL MEAN	2.54		2.63		3.62	
HIGHEST ANNUAL MEAN					7.16	1998
LOWEST ANNUAL MEAN					1.60	1988
HIGHEST DAILY MEAN	87	Oct 11	87	Oct 11	206	Apr 21 1992
LOWEST DAILY MEAN	.07	Aug 12	.23	Aug 27	.01	Jul 15 1986
ANNUAL SEVEN-DAY MINIMUM	.09	Aug 7	.26	Aug 21	.03	Jul 10 1986
INSTANTANEOUS PEAK FLOW			471	Oct 11	1560	Apr 21 1992
INSTANTANEOUS PEAK STAGE			8.43	Oct 11	11.96	Apr 21 1992
INSTANTANEOUS LOW FLOW			.23*	Aug 27	.01*	Jul 15 1986
ANNUAL RUNOFF (CFSM)	.74		.76		1.05	
ANNUAL RUNOFF (INCHES)	10.02		10.40		14.30	
10 PERCENT EXCEEDS	3.5		5.0		6.1	
50 PERCENT EXCEEDS	1.7		1.7		1.8	
90 PERCENT EXCEEDS	.26		.41		.38	

@ See PERIOD OF RECORD.
* See REMARKS.

02123567 DUTCHMANS CREEK NEAR UWHARRIE, NC--Continued



0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC

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

DRAINAGE AREA.--34.6 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 568.4 ft (revised) above sea level, levels by City of Charlotte. Radio telemetry at station.

REMARKS.--Records fair except discharges below 3 ft^3/s and 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	18	13	8.7	55	15	14	13	3.6	3.9	62	5.6
2	2.5	67	12	8.3	37	14	23	28	3.2	3.3	25	191
3	1.6	13	10	8.1	27	13	43	79	3.5	2.1	e10	259
4	4.4	7.8	9.9	22	22	21	20	18	5.5	1.0	e500	e230
5	5.2	7.3	9.2	16	18	17	14	13	14	1.7	30	e60
6	2.2	7.9	9.3	8.9	15	12	14	11	10	2.7	16	17
7	2.1	9.0	9.1	8.2	14	14	12	9.5	4.6	49	11	13
8	2.2	9.1	7.7	8.1	13	13	145	8.6	3.5	6.3	9.7	11
9	2.4	9.5	7.2	29	12	11	46	8.0	3.5	3.3	9.4	9.1
10	240	10	24	247	11	10	23	7.5	3.3	1.9	67	8.6
11	475	115	14	48	9.8	16	18	7.2	2.8	8.8	12	7.5
12	35	40	9.0	24	186	21	16	6.8	2.3	201	8.6	7.3
13	57	17	11	19	62	11	47	8.2	2.0	28	8.1	7.0
14	22	16	72	15	439	9.8	60	13	1.8	12	6.2	6.6
15	12	10	19	13	67	9.5	287	6.3	2.0	9.1	5.7	6.7
16	9.9	10	13	12	42	382	101	5.8	4.1	6.1	5.5	6.2
17	11	10	11	12	31	427	48	5.5	2.7	4.3	5.3	6.9
18	9.7	8.6	9.6	19	59	50	43	5.7	e4.1	3.8	84	38
19	9.2	8.4	9.6	16	34	33	24	5.4	e3.5	4.3	29	90
20	49	7.9	17	44	24	468	19	5.5	2.6	17	11	12
21	37	8.2	59	17	21	113	16	5.4	2.3	4.3	7.8	8.2
22	13	9.1	34	14	19	47	13	13	2.8	3.4	7.0	148
23	9.4	8.5	18	68	17	32	13	5.6	2.2	4.3	6.4	754
24	8.1	8.2	14	46	16	26	20	6.8	2.8	21	6.6	43
25	7.8	8.2	12	87	16	21	62	6.3	7.3	25	14	85
26	8.4	141	11	46	15	19	21	6.4	9.6	7.1	7.4	25
27	7.5	33	10	28	37	43	15	4.5	1.5	4.4	7.4	8.6
28	7.4	16	9.9	23	31	35	64	4.4	65	4.0	5.0	5.0
29	7.9	12	9.8	22	17	19	28	5.5	24	6.3	4.8	3.7
30	9.3	11	10	233	---	17	18	4.4	6.3	3.8	5.5	3.4
31	12	---	9.1	96	---	16	---	3.6	---	8.8	11	---
TOTAL	1084.9	656.7	493.4	1266.3	1366.8	1955.3	1287	330.9	206.4	462.0	998.4	2076.4
MEAN	35.0	21.9	15.9	40.8	47.1	63.1	42.9	10.7	6.88	14.9	32.2	69.2
MAX	475	141	72	247	439	468	287	79	65	201	500	754
MIN	1.6	7.3	7.2	8.1	9.8	9.5	12	3.6	1.5	1.0	4.8	3.4
CFSM	1.01	.63	.46	1.18	1.36	1.82	1.24	.31	.20	.43	.93	2.00
IN.	1.17	.71	.53	1.36	1.47	2.10	1.38	.36	.22	.50	1.07	2.23

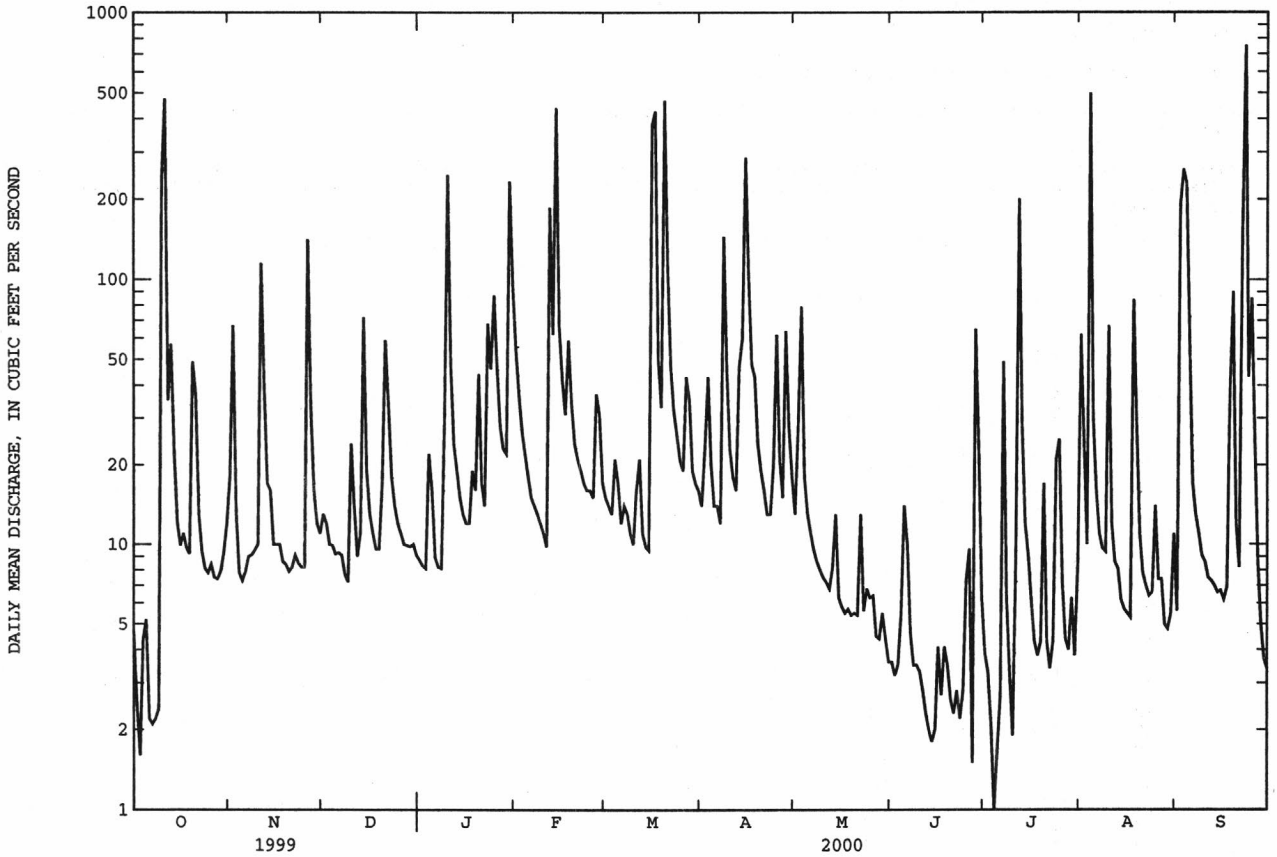
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	33.7	37.3	29.8	70.1	65.1	51.0	49.0	19.4	16.6	31.8	35.3	26.9
MAX	53.7	90.4	64.3	147	95.0	68.2	77.0	27.5	35.9	92.9	105	69.2
(WY)	1996	1996	1998	1998	1997	1998	1997	1998	1995	1997	1995	2000
MIN	9.73	8.94	15.9	40.8	32.8	15.5	11.2	10.7	6.88	9.24	4.83	14.2
(WY)	1999	1999	2000	2000	1999	1999	1995	2000	2000	1996	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	8891.3		12184.5			
ANNUAL MEAN	24.4		33.3		38.8	
HIGHEST ANNUAL MEAN					51.1	1998
LOWEST ANNUAL MEAN					21.6	1999
HIGHEST DAILY MEAN	718	Jan 23	754	Sep 23	2350	Aug 27 1995
LOWEST DAILY MEAN	1.6	Sep 25	1.0	Jul 4	1.0	Jul 4 2000
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 1	2.5	Jun 9	2.1	Aug 29 1997
INSTANTANEOUS PEAK FLOW			1920	Mar 16	6260*	Aug 27 1995
INSTANTANEOUS PEAK STAGE			12.89	Mar 16	17.43*	Aug 27 1995
INSTANTANEOUS LOW FLOW			.65	Jul 4	.65	Jul 29 1999
ANNUAL RUNOFF (CFSM)	.70		.96		1.12	
ANNUAL RUNOFF (INCHES)	9.56		13.10		15.24	
10 PERCENT EXCEEDS	39		62		67	
50 PERCENT EXCEEDS	10		12		15	
90 PERCENT EXCEEDS	3.1		3.8		4.3	

e Estimated.
* See REMARKS.

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



02124692 GOOSE CREEK AT FAIRVIEW, NC

LOCATION.--Lat 35°09'14", long 80°32'09", Union County, Hydrologic Unit 03040105, on right bank at downstream side of culvert on U.S. Highway 601, 1.0 mi north of Fairview, and 2.0 mi above Duck Creek.

DRAINAGE AREA.--24.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1999 to September 2000.

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

GAGE.--Water-stage recorder. Elevation of gage is 475 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharge, which are poor. Maximum discharge for period of record from rating curve extended above 280 ft^3/s. Minimum discharge for period of record may be affected by regulation of unknown origin.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e1.8	2.8	3.5	101	6.7	4.8	5.7	1.2	1.3	4.5	6.9
2	---	e3.0	3.0	3.2	78	6.4	4.9	4.7	1.2	3.8	12	26
3	---	e7.0	2.9	3.4	73	5.8	6.0	4.5	1.3	1.6	6.2	9.0
4	---	e2.0	2.7	4.1	66	12	5.3	4.2	19	.75	27	2.8
5	---	e1.9	2.7	5.8	43	17	4.5	4.0	e200	1.0	3.3	1.9
6	---	e1.7	2.8	4.0	28	8.7	4.2	3.7	e35	.61	1.5	1.5
7	---	e1.8	2.8	3.6	22	7.0	4.2	3.6	8.8	1.1	1.2	1.2
8	---	e1.9	3.3	3.3	17	6.4	7.4	3.3	4.9	2.0	.96	1.1
9	---	2.0	5.5	3.8	14	6.0	13	2.8	3.2	2.6	.89	1.0
10	---	2.1	13	124	12	5.7	5.2	3.0	2.5	1.7	1.8	.98
11	---	13	30	39	11	5.8	4.4	2.9	1.6	1.6	1.0	1.1
12	---	16	21	14	246	8.4	4.1	2.6	2.0	2.2	.88	1.1
13	---	4.4	22	9.8	99	5.8	6.5	2.8	1.8	2.9	.62	.92
14	---	3.1	61	5.8	270	5.2	9.0	2.6	e1.0	1.1	.76	.75
15	---	2.8	16	4.9	80	5.1	44	2.8	e1.5	1.3	.74	.64
16	---	2.3	6.0	5.0	37	10	29	2.6	1.1	1.5	.65	.79
17	---	2.2	4.5	4.5	25	15	13	2.5	1.5	1.0	.37	1.0
18	---	2.2	4.1	5.3	51	7.5	24	2.6	1.6	.57	.34	1.2
19	---	2.3	4.7	5.3	33	6.3	9.9	1.7	1.5	.46	.70	8.2
20	---	2.5	7.7	9.3	20	e180	6.4	1.1	.81	1.8	.45	2.1
21	---	2.5	16	7.0	15	57	5.2	1.5	1.2	1.4	.39	1.1
22	---	2.7	31	5.0	12	24	4.4	2.8	1.4	.85	.29	1.6
23	---	2.7	10	58	11	14	4.1	2.5	1.3	2.1	.54	91
24	---	2.7	7.0	66	9.6	9.9	4.1	2.0	.64	11	.34	8.9
25	---	2.9	5.3	101	9.0	8.1	29	2.2	1.0	1.7	.52	6.0
26	---	33	4.6	76	8.2	7.0	13	2.2	1.1	1.1	.88	18
27	---	22	4.4	37	7.8	6.6	7.6	2.1	.60	1.1	.75	2.1
28	---	6.2	4.0	21	8.7	11	21	2.1	.69	.89	.73	1.2
29	---	4.3	3.7	17	7.0	7.0	17	2.0	3.3	.71	.51	.92
30	---	3.2	3.5	220	---	5.9	7.9	2.3	2.7	.73	.31	.76
31	---	---	3.4	156	---	5.3	---	1.7	---	.82	.47	---
TOTAL	---	158.2	311.4	1025.6	1414.3	486.6	323.1	87.1	305.44	53.29	71.59	201.76
MEAN	---	5.27	10.0	33.1	48.8	15.7	10.8	2.81	10.2	1.72	2.31	6.73
MAX	---	33	61	220	270	180	44	5.7	200	11	27	91
MIN	---	1.7	2.7	3.2	7.0	5.1	4.1	1.1	.60	.46	.29	.64
CFSM	---	.22	.42	1.38	2.03	.65	.45	.12	.42	.07	.10	.28
IN.	---	.25	.48	1.59	2.19	.75	.50	.14	.47	.08	.11	.31

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

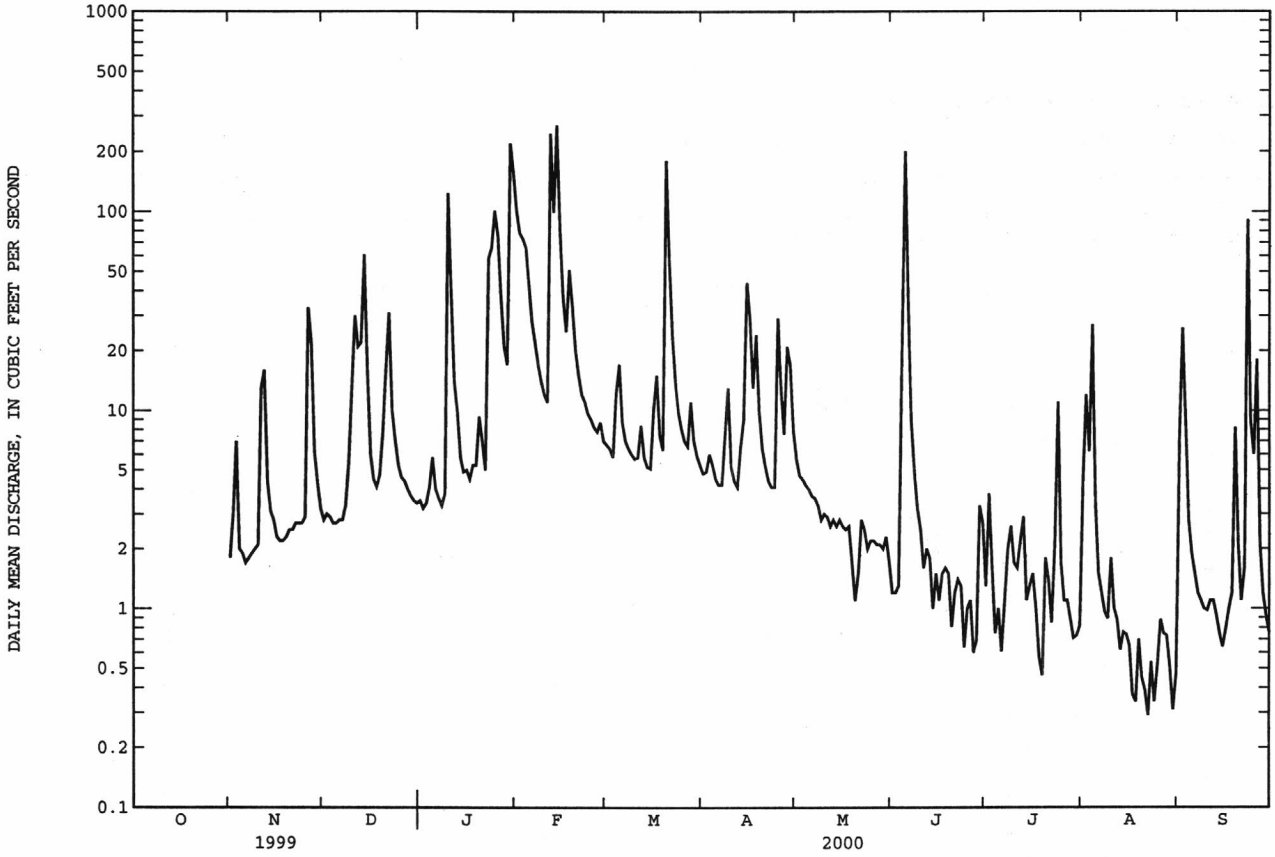
MEAN	---	5.27	10.0	33.1	48.8	15.7	10.8	2.81	10.2	1.72	2.31	6.73
MAX	---	5.27	10.0	33.1	48.8	15.7	10.8	2.81	10.2	1.72	2.31	6.73
(WY)	---	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	---	5.27	10.0	33.1	48.8	15.7	10.8	2.81	10.2	1.72	2.31	6.73
(WY)	---	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS FOR PERIOD NOV 1999 TO SEP 2000

ANNUAL TOTAL	4438.38	
ANNUAL MEAN	13.2	
HIGHEST DAILY MEAN	270	Feb 14
LOWEST DAILY MEAN	.29	Aug 22
ANNUAL SEVEN-DAY MINIMUM	.44	Aug 18
INSTANTANEOUS PEAK FLOW	689*	Jun 5
INSTANTANEOUS PEAK STAGE	8.64	Jun 5
INSTANTANEOUS LOW FLOW	.22*	Aug 24
ANNUAL RUNOFF (CFSM)	.55	
ANNUAL RUNOFF (INCHES)	6.88	
10 PERCENT EXCEEDS	28	
50 PERCENT EXCEEDS	3.8	
90 PERCENT EXCEEDS	.84	

e Estimated.
* See REMARKS.

02124692 GOOSE CREEK NEAR FAIRVIEW, NC--Continued



02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1999 to September 2000.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1999 to September 2000.

pH: November 1999 to September 2000.

WATER TEMPERATURE: November 1999 to September 2000.

DISSOLVED OXYGEN: November 1999 to September 2000.

DISSOLVED OXYGEN, PERCENT SATURATION: November 1999 to September 2000.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry.

REMARKS.--Station operated in cooperation with North Carolina Department of Transportation to characterize water-quality conditions in the Goose Creek basin.

EXTREMES FOR CURRENT YEAR.--

Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	305, September 2	62, February 14
pH, standard units	8.2, March 9	6.4, November 28, June 5
WATER TEMPERATURE, °C	26.4, August 9	0.2, January 28
DISSOLVED OXYGEN, mg/L	12.9, January 27	3.5, August 31
DISSOLVED OXYGEN, PERCENT SATURATION,%	116, March 9	41, August 31

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	184	179	181	197	193	195
2	---	---	---	---	---	---	185	182	183	196	193	195
3	---	---	---	---	---	---	190	184	186	195	190	193
4	---	---	---	---	---	---	194	190	193	196	191	194
5	---	---	---	---	---	---	197	193	195	202	196	199
6	---	---	---	---	---	---	199	196	198	211	196	201
7	---	---	---	---	---	---	199	196	197	208	202	204
8	---	---	---	---	---	---	199	197	198	204	195	199
9	---	---	---	200	197	198	198	196	197	195	187	192
10	---	---	---	205	199	201	219	193	198	192	121	155
11	---	---	---	270	168	209	204	199	201	140	121	132
12	---	---	---	233	201	211	203	200	201	153	140	147
13	---	---	---	201	197	199	201	196	199	161	153	157
14	---	---	---	202	197	201	214	167	192	163	160	162
15	---	---	---	198	189	194	167	155	160	168	163	166
16	---	---	---	199	184	187	169	163	165	174	168	170
17	---	---	---	202	185	192	167	165	166	177	174	176
18	---	---	---	216	201	211	171	167	169	180	176	178
19	---	---	---	216	211	213	174	169	171	184	180	183
20	---	---	---	211	208	209	189	173	180	194	184	190
21	---	---	---	211	207	209	205	189	194	191	183	185
22	---	---	---	213	208	210	213	190	197	186	180	183
23	---	---	---	210	208	209	190	177	181	221	124	167
24	---	---	---	209	207	208	182	177	180	146	127	135
25	---	---	---	208	206	207	182	180	181	133	120	127
26	---	---	---	247	197	210	183	180	181	131	119	125
27	---	---	---	209	166	185	186	180	183	137	131	133
28	---	---	---	174	165	169	189	186	187	144	137	139
29	---	---	---	177	173	176	191	189	190	149	144	147
30	---	---	---	181	177	179	194	190	191	160	77	118
31	---	---	---	---	---	---	196	192	194	103	79	93
MONTH	---	---	---	---	---	---	219	155	187	221	77	166

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	110	94	100	155	150	152	151	140	145	143	130	136
2	113	98	104	155	149	151	153	144	149	148	143	145
3	117	106	109	156	145	149	155	148	151	155	145	152
4	111	103	107	221	147	159	158	151	155	157	155	156
5	113	109	111	214	141	156	165	134	157	162	157	159
6	122	113	118	141	137	138	161	152	156	162	158	161
7	130	122	125	149	136	140	163	148	158	164	162	163
8	132	129	131	150	145	147	168	154	162	167	164	165
9	135	132	133	154	145	149	161	140	155	172	166	167
10	139	133	136	154	144	149	171	140	160	172	168	170
11	143	138	141	159	150	153	155	143	146	186	169	173
12	148	68	106	162	154	158	162	147	154	173	172	173
13	101	79	92	159	155	157	160	151	156	174	173	173
14	111	62	80	166	153	158	161	153	156	176	173	174
15	97	84	92	157	153	155	160	122	142	180	175	176
16	108	97	103	170	156	161	126	119	121	177	174	176
17	111	107	109	167	152	160	135	121	124	189	176	179
18	128	105	113	152	147	149	147	126	133	182	179	181
19	114	106	111	149	148	149	131	126	129	197	181	184
20	121	113	117	---	---	---	139	131	135	187	185	185
21	129	121	124	105	91	101	145	138	141	190	185	188
22	133	129	131	116	105	112	148	144	146	190	187	189
23	139	133	137	124	116	120	151	148	149	188	183	185
24	142	136	139	129	123	127	154	150	152	197	187	190
25	145	141	143	136	129	133	162	116	138	200	189	191
26	145	141	143	140	135	138	130	117	125	191	187	190
27	147	143	145	160	138	142	137	128	133	188	185	187
28	150	144	147	152	144	148	191	134	146	190	187	188
29	153	148	150	146	135	139	146	123	128	191	189	189
30	---	---	---	139	133	136	133	126	130	193	189	191
31	---	---	---	146	139	141	---	---	---	198	193	195
MONTH	153	62	121	---	---	---	191	116	144	200	130	175

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	196	191	193	216	207	213	195	157	172	294	153	257
2	196	194	194	209	181	192	209	131	152	305	85	130
3	195	190	194	189	179	183	131	97	120	105	86	92
4	190	125	162	196	189	192	128	103	117	101	90	96
5	---	---	---	199	196	198	128	114	125	111	101	106
6	---	---	---	197	191	194	128	126	127	122	111	116
7	124	122	123	191	169	180	133	128	130	132	122	126
8	---	---	---	169	162	165	139	133	135	184	129	137
9	137	131	134	201	169	184	149	139	143	150	140	145
10	145	137	140	215	201	211	149	128	140	154	150	152
11	150	145	148	213	159	202	161	143	150	161	154	157
12	154	150	152	189	168	178	175	161	167	171	161	166
13	161	154	157	182	171	176	180	175	177	180	171	175
14	---	---	---	199	179	190	185	180	182	194	180	185
15	---	---	---	203	194	200	193	185	188	268	191	207
16	175	173	174	201	180	190	201	192	196	204	199	201
17	180	174	176	181	171	176	204	199	201	211	203	206
18	188	180	184	171	168	170	206	201	204	217	192	212
19	195	188	191	172	131	169	209	202	205	---	---	---
20	197	195	195	182	162	171	210	207	209	---	---	---
21	199	196	197	189	182	187	213	208	210	---	---	---
22	200	197	199	193	187	188	215	211	213	---	---	---
23	200	198	199	201	173	195	219	213	216	188	83	114
24	200	198	199	206	109	167	221	217	219	124	101	116
25	205	200	201	193	178	187	228	220	223	158	123	128
26	212	204	208	178	153	167	234	228	231	148	127	135
27	213	211	212	153	138	145	240	234	236	136	128	133
28	214	201	211	138	136	137	246	239	242	166	136	139
29	210	203	206	141	137	138	250	246	248	141	140	140
30	212	204	208	146	141	143	255	249	251	142	140	141
31	---	---	---	157	146	150	259	245	252	---	---	---
MONTH	---	---	---	216	109	179	259	97	186	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	6.9	7.0	7.6	7.3	7.4	7.7	7.2	7.4	7.2	7.1	7.1
2	7.2	7.0	7.1	7.5	7.1	7.4	7.4	7.2	7.3	7.2	7.0	7.1
3	7.3	7.1	7.2	7.6	7.2	7.4	7.5	7.2	7.3	7.1	7.0	7.1
4	7.2	7.2	7.2	7.3	7.1	7.2	7.4	7.2	7.3	7.2	7.1	7.1
5	7.3	7.2	7.2	7.4	7.1	7.2	7.5	7.3	7.4	7.3	7.2	7.2
6	7.3	7.2	7.3	7.4	7.0	7.2	7.4	7.2	7.3	7.3	7.2	7.2
7	7.4	7.3	7.3	7.6	7.0	7.3	7.4	7.1	7.2	7.3	7.2	7.2
8	7.4	7.4	7.4	7.9	7.0	7.4	7.2	7.0	7.2	7.3	7.2	7.2
9	7.6	7.4	7.5	8.2	7.0	7.5	7.3	7.1	7.2	7.3	7.1	7.2
10	7.7	7.5	7.6	8.1	7.2	7.6	7.1	6.9	7.0	7.2	7.1	7.2
11	7.8	7.5	7.7	8.0	7.2	7.5	7.0	6.9	7.0	7.2	7.1	7.2
12	7.7	7.4	7.5	7.7	7.1	7.4	7.0	6.9	7.0	7.2	7.1	7.2
13	7.5	6.9	7.2	7.8	7.2	7.5	7.1	6.9	7.0	7.3	7.2	7.3
14	7.3	6.9	7.1	7.8	7.3	7.5	7.1	7.0	7.1	7.3	7.2	7.3
15	7.1	6.6	7.0	7.9	7.3	7.5	7.0	6.5	6.9	7.3	7.2	7.2
16	7.4	6.9	7.1	7.5	7.3	7.4	6.8	6.7	6.7	7.3	7.2	7.3
17	7.3	6.9	7.2	7.6	7.2	7.4	6.8	6.7	6.8	7.3	7.2	7.3
18	7.4	7.3	7.4	7.5	7.2	7.3	6.8	6.7	6.8	7.3	7.2	7.3
19	7.3	7.2	7.3	7.6	7.3	7.5	6.9	6.8	6.8	7.3	7.2	7.3
20	7.4	7.2	7.3	---	---	---	6.9	6.7	6.8	7.4	7.2	7.3
21	7.5	7.4	7.4	7.3	7.1	7.2	6.9	6.8	6.9	7.3	7.2	7.3
22	7.5	7.4	7.5	7.5	7.2	7.4	7.0	6.9	6.9	7.3	7.2	7.2
23	7.4	7.3	7.4	7.4	7.2	7.3	7.0	6.9	7.0	7.3	7.2	7.3
24	7.3	7.1	7.2	7.3	7.1	7.2	7.0	7.0	7.0	7.3	7.2	7.2
25	7.2	7.1	7.1	7.3	7.0	7.2	7.1	6.9	7.0	7.3	7.2	7.2
26	7.3	7.1	7.2	7.4	7.1	7.2	7.0	6.9	7.0	7.3	7.2	7.2
27	7.3	7.1	7.2	7.3	7.1	7.2	7.3	7.0	7.1	7.3	7.2	7.3
28	7.5	7.2	7.3	7.6	7.1	7.3	7.3	7.1	7.2	7.3	7.2	7.3
29	7.5	7.3	7.4	7.5	7.2	7.3	7.3	7.1	7.1	7.3	7.2	7.2
30	---	---	---	7.6	7.2	7.4	7.1	7.1	7.1	7.3	7.2	7.2
31	---	---	---	7.6	7.2	7.4	---	---	---	7.3	7.2	7.2
MONTH	7.8	6.6	7.3	---	---	---	7.7	6.5	7.1	7.4	7.0	7.2

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

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

TEMPERATURE, WATER (DEG. C), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	7.7	5.5	6.7	6.4	4.6	5.5
2	---	---	---	---	---	---	6.4	4.3	5.3	8.4	5.8	7.0
3	---	---	---	---	---	---	6.6	4.1	5.3	10.3	7.5	8.9
4	---	---	---	---	---	---	7.8	5.0	6.3	12.0	9.7	10.9
5	---	---	---	---	---	---	9.1	5.8	7.4	10.9	8.2	9.9
6	---	---	---	---	---	---	11.0	8.3	9.6	8.2	6.9	7.6
7	---	---	---	---	---	---	9.5	7.6	8.5	8.3	6.6	7.3
8	---	---	---	---	---	---	8.3	6.4	7.3	7.5	5.8	6.6
9	---	---	---	12.7	10.3	11.5	8.0	5.8	7.0	7.2	6.3	6.8
10	---	---	---	13.6	11.3	12.5	9.2	7.1	8.0	11.6	7.2	9.6
11	---	---	---	13.8	11.9	12.9	8.9	7.1	7.9	10.5	9.0	9.8
12	---	---	---	13.8	13.1	13.4	8.1	6.7	7.4	9.8	7.7	8.5
13	---	---	---	13.5	12.2	12.8	9.1	7.4	8.1	10.0	8.3	9.1
14	---	---	---	14.1	11.8	12.8	12.1	9.1	11.1	9.1	5.4	7.2
15	---	---	---	13.2	11.4	12.3	11.6	9.6	10.1	5.4	4.0	4.4
16	---	---	---	11.7	9.6	10.8	9.6	7.9	8.8	6.1	3.8	4.8
17	---	---	---	10.1	8.2	9.1	7.9	6.2	7.2	6.8	5.9	6.2
18	---	---	---	9.1	7.2	8.0	7.1	5.9	6.3	6.2	4.3	5.0
19	---	---	---	9.2	6.7	7.8	7.3	6.0	6.8	4.6	3.9	4.2
20	---	---	---	10.3	7.8	9.0	8.5	7.2	8.0	5.9	4.5	5.2
21	---	---	---	10.7	9.0	9.9	8.9	8.3	8.5	5.1	3.0	4.0
22	---	---	---	11.9	10.5	11.2	9.5	8.8	9.1	3.0	1.4	2.2
23	---	---	---	13.6	11.4	12.4	8.9	7.7	8.4	2.6	1.1	1.5
24	---	---	---	14.3	12.7	13.3	7.7	6.1	6.8	3.0	1.6	2.6
25	---	---	---	15.0	13.4	14.1	6.1	3.6	4.9	2.7	1.0	1.8
26	---	---	---	16.2	14.5	15.2	4.1	3.0	3.5	3.5	2.0	2.6
27	---	---	---	15.7	12.6	13.9	4.3	2.8	3.3	2.3	.7	1.6
28	---	---	---	12.6	11.0	11.7	4.3	2.7	3.4	1.9	.2	1.1
29	---	---	---	11.6	9.8	10.9	4.7	2.9	3.6	2.2	1.3	1.8
30	---	---	---	10.0	7.4	9.1	4.9	2.8	3.8	2.3	1.5	1.8
31	---	---	---	---	---	---	5.8	3.7	4.7	4.2	2.3	3.2
MONTH	---	---	---	---	---	---	12.1	2.7	6.9	12.0	.2	5.4

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

TEMPERATURE, WATER (DEG. C), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.1	2.2	3.4	12.8	9.8	11.2	16.7	13.7	15.4	16.3	13.8	15.2
2	5.0	2.3	3.5	13.5	11.4	12.5	15.8	14.7	15.4	17.3	15.5	16.5
3	6.0	2.4	3.9	12.7	10.6	11.5	18.4	15.4	16.9	18.2	16.9	17.5
4	6.0	3.7	4.8	11.6	9.8	10.6	18.3	15.4	17.5	18.5	16.8	17.7
5	5.6	3.6	4.7	11.3	8.3	9.9	15.4	13.0	14.2	18.4	16.5	17.6
6	5.3	2.9	4.2	12.8	9.9	11.4	16.1	12.2	14.3	18.9	16.8	18.0
7	6.3	3.6	4.9	13.9	11.1	12.6	18.1	14.3	16.4	19.6	17.5	18.6
8	6.2	4.4	5.4	15.7	12.6	14.2	17.4	14.3	16.4	20.0	18.1	19.2
9	6.9	4.6	5.9	17.0	14.1	15.7	14.3	12.0	13.1	20.9	18.8	19.8
10	7.2	4.8	6.1	17.5	15.3	16.7	14.9	11.7	13.4	20.9	19.1	20.0
11	10.1	6.7	8.1	18.6	16.2	17.5	16.7	13.6	15.3	20.2	18.2	19.3
12	10.1	7.0	8.3	17.7	13.6	15.8	17.3	15.8	16.6	21.0	18.3	19.7
13	7.0	6.3	6.6	13.6	11.0	12.1	16.6	12.0	14.3	21.8	19.4	20.7
14	10.5	6.7	8.6	12.0	9.6	11.0	12.0	11.1	11.3	21.6	19.8	20.6
15	10.0	7.7	9.0	13.0	10.5	11.8	13.4	11.1	12.1	19.8	17.9	18.9
16	11.0	7.8	9.3	13.5	12.1	12.6	17.0	13.4	15.0	18.2	16.5	17.5
17	10.7	8.8	9.8	16.2	13.5	14.8	17.3	15.7	16.6	18.4	16.8	17.7
18	9.8	7.7	8.3	14.3	12.3	13.0	16.8	15.3	15.8	20.0	17.8	18.9
19	12.3	8.0	9.9	12.3	10.9	11.6	16.9	14.4	15.7	21.8	19.2	20.4
20	11.3	8.4	9.6	---	---	---	17.9	15.6	16.8	22.5	19.6	21.1
21	9.0	6.6	7.9	14.3	12.0	13.1	18.8	17.2	17.8	21.2	20.2	20.7
22	8.2	6.0	7.3	14.6	11.1	13.0	17.2	14.5	15.7	21.6	20.0	20.7
23	10.0	7.3	8.6	15.5	12.6	14.1	15.1	13.0	14.3	20.5	19.5	20.0
24	11.5	8.8	10.2	15.6	12.1	14.1	15.2	14.0	14.7	21.5	19.8	20.5
25	13.6	10.6	12.1	17.0	13.3	15.3	15.0	13.6	14.3	21.9	20.5	21.1
26	14.4	11.8	13.2	18.3	15.7	16.9	13.8	12.5	13.2	22.3	20.4	21.2
27	15.1	13.3	14.2	16.5	14.0	14.8	14.7	13.0	13.8	22.2	20.4	21.3
28	14.3	12.4	13.5	15.0	12.4	13.7	14.1	13.8	13.9	22.1	21.2	21.6
29	12.4	10.3	11.5	13.8	11.8	13.0	14.4	13.1	13.8	21.5	19.4	20.7
30	---	---	---	14.9	12.6	13.6	15.1	13.0	14.1	19.5	17.8	18.7
31	---	---	---	16.9	14.0	15.3	---	---	---	19.3	16.9	18.0
MONTH	15.1	2.2	8.0	---	---	---	18.8	11.1	14.9	22.5	13.8	19.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.5	17.5	19.0	22.5	21.0	21.7	23.2	22.4	22.8	23.4	22.0	22.7
2	22.1	19.3	20.6	22.0	20.6	21.4	23.2	22.6	22.9	23.3	22.8	23.1
3	22.6	20.5	21.6	23.5	21.6	22.5	23.4	22.7	23.1	23.5	23.1	23.3
4	21.7	20.9	21.4	24.8	22.2	23.4	23.5	23.0	23.2	23.6	23.0	23.2
5	---	---	---	24.4	23.0	23.7	23.9	22.8	23.4	23.0	21.0	22.3
6	---	---	---	25.6	23.4	24.4	23.8	22.8	23.4	21.0	19.4	20.0
7	19.6	18.2	18.8	25.1	23.4	24.0	25.2	23.3	24.1	20.5	18.8	19.5
8	---	---	---	23.5	22.5	23.1	26.1	24.1	24.9	20.4	18.6	19.5
9	20.2	18.1	19.3	24.7	22.8	23.7	26.4	24.2	25.2	21.1	18.6	19.7
10	21.4	19.3	20.4	25.6	23.6	24.6	25.1	23.6	24.4	21.0	18.6	19.8
11	22.9	20.1	21.4	25.6	24.2	24.8	25.3	23.6	24.2	21.4	19.0	20.1
12	22.6	20.8	21.7	24.7	23.6	24.0	24.6	22.3	23.4	21.6	19.2	20.4
13	23.9	21.6	22.7	23.7	22.7	23.2	23.5	20.8	22.1	22.0	19.2	20.6
14	---	---	---	24.1	22.4	23.1	23.1	20.3	21.7	22.8	20.1	21.4
15	---	---	---	24.5	22.7	23.4	22.9	20.2	21.6	22.7	19.9	21.4
16	24.8	22.6	23.5	24.1	22.2	23.1	23.9	20.7	22.2	19.9	16.9	18.1
17	24.9	23.1	23.8	24.5	21.9	23.1	24.4	21.4	22.9	18.1	15.0	16.7
18	25.0	23.5	24.2	24.9	21.8	23.3	24.9	21.9	23.3	17.4	16.4	16.9
19	24.3	23.6	23.9	24.3	22.6	23.5	24.4	22.1	23.1	18.3	16.7	17.6
20	24.2	23.1	23.6	25.0	22.8	23.7	22.6	21.2	21.9	20.1	18.1	19.1
21	24.9	22.9	23.8	23.9	22.9	23.5	22.3	20.6	21.5	21.4	19.5	20.4
22	24.8	23.5	24.1	24.1	22.4	23.0	21.6	19.2	20.6	20.3	19.5	19.9
23	24.8	22.6	23.6	23.5	22.4	22.9	22.7	18.5	20.8	20.6	19.3	19.9
24	24.9	22.4	23.6	22.5	21.8	22.1	23.7	20.5	22.0	21.7	20.4	21.0
25	25.1	22.4	23.7	22.0	20.8	21.3	24.2	21.8	22.9	22.6	21.6	21.9
26	25.6	23.3	24.1	21.6	20.6	21.0	23.3	21.2	22.3	22.2	18.6	20.4
27	25.5	23.0	24.2	23.1	20.7	21.7	23.0	21.8	22.4	18.6	16.4	17.6
28	24.6	22.9	23.7	23.5	21.1	22.3	23.3	21.3	22.1	17.5	15.5	16.4
29	23.3	22.1	22.9	23.9	21.0	22.4	23.0	20.8	21.8	16.8	15.0	15.9
30	22.7	21.2	21.9	24.2	21.6	22.8	22.7	21.0	21.8	17.3	15.1	16.1
31	---	---	---	24.0	22.4	23.1	23.9	21.9	22.7	---	---	---
MONTH	---	---	---	25.6	20.6	23.0	26.4	18.5	22.7	23.6	15.0	19.8

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

OXYGEN DISSOLVED (MG/L), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	10.1	8.5	9.3	11.4	9.6	10.3
2	---	---	---	---	---	---	10.7	9.4	10.0	11.3	9.2	10.0
3	---	---	---	---	---	---	11.5	9.9	10.5	11.1	8.5	9.5
4	---	---	---	---	---	---	11.4	9.9	10.4	10.1	7.9	8.7
5	---	---	---	---	---	---	11.1	9.2	10.1	9.3	7.9	8.5
6	---	---	---	---	---	---	10.8	8.6	9.4	11.0	8.6	9.5
7	---	---	---	---	---	---	10.8	8.6	9.3	11.5	9.1	10.0
8	---	---	---	---	---	---	11.1	8.5	9.6	11.9	9.3	10.3
9	---	---	---	6.0	5.4	5.6	11.6	9.3	10.0	11.3	9.4	10.0
10	---	---	---	5.6	4.7	5.2	11.4	9.4	10.0	9.8	8.1	8.8
11	---	---	---	6.3	4.4	5.1	10.6	9.2	9.7	9.4	8.6	9.1
12	---	---	---	6.7	5.9	6.4	11.3	9.3	10.1	9.9	9.0	9.5
13	---	---	---	6.7	6.2	6.4	11.4	9.2	9.9	9.4	8.9	9.1
14	---	---	---	6.5	5.7	6.1	9.3	8.2	8.7	10.2	8.8	9.4
15	---	---	---	6.4	5.4	5.9	9.0	8.1	8.6	10.9	10.1	10.5
16	---	---	---	6.3	5.4	5.8	9.9	8.7	9.0	10.9	10.4	10.7
17	---	---	---	6.6	5.8	6.1	9.9	9.0	9.4	10.4	9.8	10.0
18	---	---	---	---	---	---	10.7	9.6	10.1	10.2	9.7	9.9
19	---	---	---	---	---	---	10.9	9.9	10.3	10.8	10.2	10.5
20	---	---	---	---	---	---	10.3	9.7	10.0	10.6	9.9	10.2
21	---	---	---	---	---	---	10.1	9.4	9.7	10.7	9.9	10.3
22	---	---	---	---	---	---	9.6	9.3	9.4	11.4	10.6	11.1
23	---	---	---	---	---	---	10.0	9.3	9.5	12.1	11.2	11.5
24	---	---	---	9.1	7.0	7.6	10.4	9.4	9.9	11.9	11.4	11.6
25	---	---	---	8.8	6.5	7.2	11.0	10.1	10.5	12.1	11.8	12.0
26	---	---	---	7.0	5.8	6.5	11.7	10.7	11.0	12.1	11.8	11.9
27	---	---	---	7.6	6.9	7.3	11.6	10.7	11.1	12.9	11.9	12.2
28	---	---	---	7.8	7.2	7.5	11.5	10.4	10.9	12.7	11.9	12.3
29	---	---	---	8.5	7.7	8.0	11.6	10.4	10.9	12.4	11.9	12.1
30	---	---	---	9.2	7.9	8.4	11.7	10.3	10.9	12.2	11.8	12.0
31	---	---	---	---	---	---	11.6	9.9	10.7	11.9	11.3	11.6
MONTH	---	---	---	---	---	---	11.7	8.1	10.0	12.9	7.9	10.4

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

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

OXYGEN DISSOLVED (MG/L), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	6.2	6.6	6.5	5.8	6.1	6.6	4.8	5.9	---	---	---
2	6.7	5.9	6.3	6.3	5.3	6.0	6.7	6.0	6.3	---	---	---
3	6.6	5.9	6.2	6.4	5.6	6.0	6.4	5.5	5.8	---	---	---
4	6.8	5.3	6.3	6.4	5.5	5.9	6.5	6.0	6.3	---	---	---
5	---	---	---	6.2	5.4	5.7	6.0	5.6	5.9	---	---	---
6	---	---	---	6.5	5.0	5.7	5.7	5.3	5.5	---	---	---
7	---	---	---	6.3	4.9	5.3	5.6	4.9	5.3	---	---	---
8	---	---	---	6.0	5.1	5.5	5.5	4.6	5.0	6.0	5.5	5.7
9	7.1	6.7	6.9	6.4	5.4	5.7	5.6	4.6	5.0	6.1	5.5	5.7
10	7.0	6.5	6.7	6.1	5.0	5.5	6.1	4.5	4.9	6.0	5.4	5.7
11	6.9	6.2	6.5	5.9	4.8	5.2	5.4	4.4	4.8	6.0	5.3	5.6
12	6.8	6.2	6.5	5.3	4.0	4.6	5.8	4.8	5.1	6.0	5.3	5.5
13	7.0	6.2	6.5	5.8	4.8	5.4	6.5	4.8	5.4	6.0	5.1	5.5
14	---	---	---	6.3	5.3	5.8	6.5	5.0	5.6	5.8	4.7	5.3
15	---	---	---	5.7	5.1	5.3	6.7	5.2	5.8	6.0	4.6	5.1
16	6.4	5.3	5.7	6.0	5.1	5.5	7.0	5.3	5.9	6.9	4.8	5.7
17	6.2	5.2	5.6	6.1	5.3	5.6	7.7	5.1	6.2	6.9	5.6	6.2
18	6.0	5.4	5.6	6.4	4.9	5.6	7.8	4.7	5.9	6.5	5.7	5.9
19	5.8	5.3	5.5	6.3	4.9	5.5	7.3	4.5	5.5	6.9	4.5	6.2
20	6.1	5.1	5.5	5.7	4.3	4.9	6.5	4.3	5.2	6.4	5.3	5.9
21	5.8	5.1	5.4	6.1	5.1	5.6	7.5	4.3	5.7	5.5	4.6	5.1
22	6.0	5.1	5.4	6.4	5.3	5.6	7.3	4.5	5.7	5.5	4.6	4.9
23	6.1	5.3	5.6	6.3	4.9	5.6	7.0	4.5	5.6	6.8	4.8	6.3
24	6.5	5.2	5.8	6.6	5.6	6.3	7.2	4.2	5.4	6.5	5.7	6.2
25	6.0	5.2	5.5	6.1	5.6	5.9	6.3	3.8	4.8	5.8	5.2	5.5
26	6.1	5.2	5.5	6.0	5.5	5.7	5.6	4.3	4.7	6.0	5.5	5.9
27	6.3	5.0	5.5	6.0	5.3	5.6	5.3	4.4	4.7	6.0	5.8	6.0
28	6.0	4.7	5.3	6.2	5.3	5.6	5.5	4.3	4.7	6.4	6.0	6.2
29	5.8	4.0	5.2	6.6	5.1	5.6	5.4	4.0	4.6	6.6	6.2	6.4
30	6.3	5.5	5.9	6.7	5.2	5.7	5.7	4.0	4.6	6.6	6.0	6.3
31	---	---	---	6.5	5.3	5.6	5.0	3.5	4.2	---	---	---
MONTH	---	---	---	6.7	4.0	5.6	7.8	3.5	5.4	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	87	73	78	95	79	84
2	---	---	---	---	---	---	89	77	81	98	78	85
3	---	---	---	---	---	---	96	79	86	100	77	85
4	---	---	---	---	---	---	98	82	87	96	74	81
5	---	---	---	---	---	---	98	80	86	85	73	77
6	---	---	---	---	---	---	100	78	85	96	75	82
7	---	---	---	---	---	---	97	74	82	100	77	85
8	---	---	---	---	---	---	97	73	82	102	78	86
9	---	---	---	58	50	53	101	77	85	96	79	84
10	---	---	---	55	46	51	102	80	87	85	75	79
11	---	---	---	62	44	50	94	79	84	86	79	83
12	---	---	---	66	59	63	98	80	86	87	81	83
13	---	---	---	66	60	62	100	79	86	85	79	82
14	---	---	---	64	56	60	84	77	81	83	76	80
15	---	---	---	62	51	56	82	76	79	85	80	83
16	---	---	---	59	50	54	88	76	79	89	83	86
17	---	---	---	60	52	55	85	76	80	86	81	83
18	---	---	---	---	---	---	91	79	84	82	78	80
19	---	---	---	---	---	---	93	82	87	86	80	83
20	---	---	---	---	---	---	90	85	87	85	80	83
21	---	---	---	---	---	---	88	83	85	83	78	81
22	---	---	---	---	---	---	86	83	84	85	81	83
23	---	---	---	---	---	---	88	81	83	90	81	84
24	---	---	---	91	69	75	89	79	83	89	86	88
25	---	---	---	90	66	72	89	81	84	90	87	89
26	---	---	---	72	60	67	90	83	85	93	88	90
27	---	---	---	76	71	73	92	82	86	94	87	90
28	---	---	---	74	68	71	91	80	85	94	86	90
29	---	---	---	81	71	74	92	80	85	92	87	89
30	---	---	---	84	71	75	94	80	85	90	87	89
31	---	---	---	---	---	---	95	80	85	90	88	89
MONTH	---	---	---	---	---	---	102	73	84	102	73	84

02124692 GOOSE CREEK AT FAIRVIEW, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), FOR PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	92	88	90	106	84	95	108	76	90	85	77	80
2	93	89	91	107	84	95	92	75	82	83	74	78
3	94	88	90	106	80	94	98	75	84	83	73	77
4	92	88	90	96	81	87	84	70	76	84	73	77
5	94	88	90	105	82	92	94	71	81	84	73	76
6	93	87	89	106	80	92	94	75	82	83	72	76
7	93	86	89	109	80	94	91	70	79	81	69	74
8	93	86	89	110	79	95	78	65	71	79	68	72
9	97	86	89	116	74	95	87	75	80	78	65	70
10	94	84	89	106	67	88	82	72	76	75	63	67
11	---	---	---	112	69	90	83	70	75	75	61	67
12	---	---	---	100	69	85	76	67	71	78	64	69
13	---	---	---	103	74	88	74	66	68	76	63	68
14	---	---	---	105	78	91	80	74	78	76	62	67
15	---	---	---	108	78	92	83	77	80	73	63	68
16	---	---	---	93	77	84	84	75	80	75	67	70
17	---	---	---	97	76	85	80	72	76	76	68	71
18	94	90	92	95	71	83	79	71	75	80	67	72
19	93	86	90	97	75	85	79	73	76	79	67	72
20	92	85	88	---	---	---	77	70	73	82	66	71
21	102	85	90	90	81	85	75	65	70	72	63	67
22	95	86	91	94	82	86	75	66	70	72	64	67
23	94	88	91	95	80	86	80	70	75	77	67	71
24	95	85	89	98	78	86	80	72	75	76	66	70
25	96	83	88	102	77	87	80	68	77	71	63	67
26	99	81	89	103	74	86	82	77	79	74	63	67
27	98	82	88	92	73	81	81	76	78	74	63	68
28	102	79	89	103	77	88	83	75	78	69	63	66
29	102	82	92	102	76	88	84	79	82	72	61	65
30	---	---	---	106	80	91	85	79	81	75	65	70
31	---	---	---	107	78	90	---	---	---	77	69	72
MONTH	---	---	---	---	---	---	108	65	77	85	61	71

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	79	70	74	77	68	71	79	58	70	---	---	---
2	78	69	72	74	61	70	79	72	76	---	---	---
3	79	69	72	77	67	71	77	66	69	---	---	---
4	78	62	73	79	66	71	79	72	76	---	---	---
5	---	---	---	76	65	69	73	68	71	---	---	---
6	---	---	---	82	62	70	69	64	67	---	---	---
7	---	---	---	78	59	65	70	61	65	---	---	---
8	---	---	---	73	61	66	69	57	62	69	62	64
9	79	75	77	79	66	70	71	57	62	70	62	64
10	81	75	77	77	62	68	74	56	60	69	62	64
11	82	72	76	73	60	65	68	54	59	69	61	63
12	81	72	76	65	49	57	72	57	61	69	60	63
13	84	74	77	69	59	65	78	57	64	70	59	63
14	---	---	---	77	65	70	79	58	65	69	55	61
15	---	---	---	70	61	65	80	60	68	72	53	60
16	80	65	70	73	60	66	85	62	70	77	53	62
17	76	63	68	75	63	68	95	61	74	75	60	65
18	74	65	69	79	59	68	98	56	71	70	60	63
19	72	64	67	77	59	66	90	53	66	75	48	67
20	75	61	67	71	53	60	77	50	62	70	59	65
21	72	61	66	75	62	68	89	50	66	64	53	58
22	75	62	67	78	64	68	85	50	66	62	53	55
23	75	64	68	77	58	67	83	53	64	78	54	71
24	80	63	71	78	67	74	87	48	64	75	67	71
25	74	62	67	71	64	68	78	45	58	68	61	65
26	77	63	68	70	63	66	68	51	56	71	64	67
27	79	61	68	72	63	66	63	52	56	66	63	64
28	74	56	64	75	61	66	66	51	56	68	62	65
29	70	48	63	80	61	66	65	47	54	69	65	66
30	75	64	69	82	61	68	68	46	54	70	63	66
31	---	---	---	80	63	68	61	41	50	---	---	---
MONTH	---	---	---	82	49	67	98	41	64	---	---	---

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC

LOCATION.--Lat 35°20'02", long 80°20'09", Stanly County, Hydrologic Unit 03040105, on left bank 300 ft downstream of Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 mi southwest of Richfield.

DRAINAGE AREA.--55.6 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 426.62 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those for June to Aug., 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	6.7	11	8.3	291	18	16	36	1.0	.15	.00	.42
2	3.6	7.4	9.3	8.0	212	17	15	24	.98	.11	.00	310
3	1.7	11	8.8	7.7	171	15	20	19	.84	.05	.04	13
4	1.5	8.1	8.1	8.0	151	15	22	15	.87	.00	.32	28
5	1.3	7.0	7.7	9.7	109	15	17	12	1.5	.00	.20	12
6	.99	6.5	7.4	8.7	76	14	14	11	5.0	.02	.09	5.4
7	.83	6.1	7.3	7.6	60	13	14	9.1	3.7	.00	.00	3.0
8	.64	5.6	6.6	7.4	49	12	30	7.7	2.1	.00	.00	1.9
9	.54	5.5	6.1	8.1	42	11	93	6.6	1.5	.00	.00	1.4
10	20	5.2	6.6	226	36	11	37	6.0	1.1	.00	.01	.89
11	2210	5.0	9.5	124	32	11	24	6.0	.79	.01	.00	.62
12	121	5.0	8.3	53	195	14	19	5.9	.56	.26	.00	.46
13	800	5.2	7.5	35	177	11	19	4.8	.34	.47	.00	.38
14	146	5.4	53	24	581	9.7	28	3.9	.29	e.34	.00	.29
15	51	4.8	38	18	179	9.5	77	3.6	.34	e.20	.00	.22
16	29	4.6	22	17	96	11	81	3.3	.33	e.16	.00	.15
17	22	4.4	16	15	64	52	48	3.0	.20	e.13	.00	.13
18	20	4.2	13	15	120	22	55	2.7	.17	.07	.00	.18
19	14	4.1	12	16	101	15	38	2.4	.15	.00	.00	1.0
20	42	4.2	15	73	66	152	27	2.1	.15	.00	.00	.47
21	141	4.6	17	61	49	137	21	2.0	.13	.00	.00	.39
22	54	7.6	33	34	39	62	17	18	.07	.08	.00	16
23	30	7.5	25	54	34	38	14	9.1	.10	.22	.00	1140
24	19	6.1	20	92	30	28	13	5.0	.06	.25	.00	90
25	15	5.7	16	144	28	23	18	3.9	.06	.26	.00	70
26	12	52	13	127	25	20	17	3.0	.32	.24	.00	127
27	11	67	13	77	23	20	18	2.1	.68	.18	.00	35
28	9.4	27	12	54	23	47	93	1.8	.24	.12	.00	19
29	8.4	18	10	45	19	29	130	1.8	.41	.03	.00	12
30	7.7	13	9.3	e600	---	22	66	1.6	.29	.00	.00	9.0
31	7.1	---	8.8	490	---	19	---	1.2	---	.00	.12	---
TOTAL	3808.20	324.5	450.3	2467.5	3078	893.2	1101	233.6	24.27	3.35	0.78	1898.30
MEAN	123	10.8	14.5	79.6	106	28.8	36.7	7.54	.81	.11	.025	63.3
MAX	2210	67	53	600	581	152	130	36	5.0	.47	.32	1140
MIN	.54	4.1	6.1	7.4	19	9.5	13	1.2	.06	.00	.00	.13
CFSM	2.21	.19	.26	1.43	1.91	.52	.66	.14	.01	.00	.00	1.14
IN.	2.55	.22	.30	1.65	2.06	.60	.74	.16	.02	.00	.00	1.27

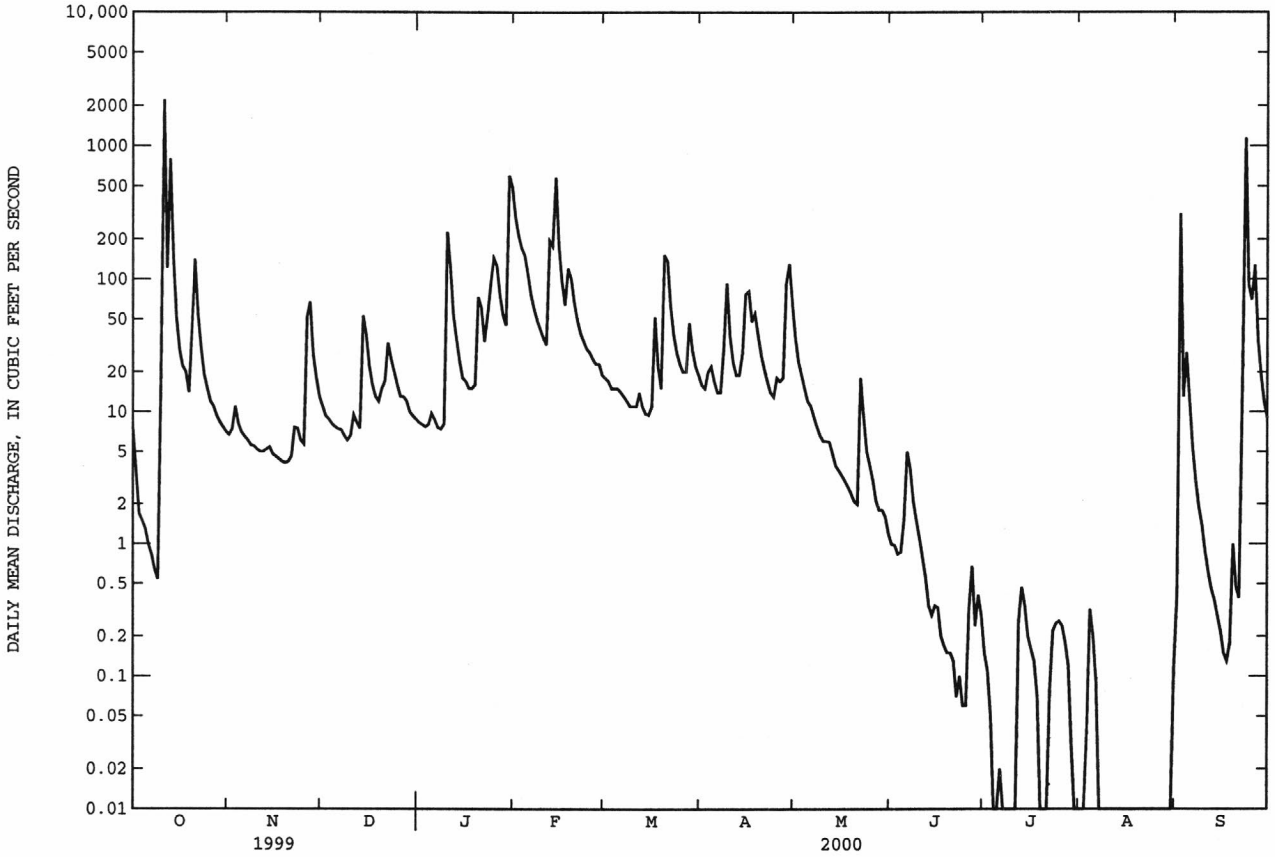
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	41.7	31.9	55.9	112	135	122	73.2	37.3	28.2	31.7	23.7	20.0
MAX	355	212	186	357	284	345	247	234	140	220	223	125
(WY)	1991	1986	1977	1998	1984	1993	1958	1975	1957	1984	1967	1995
MIN	.006	.34	2.12	4.38	16.2	13.2	6.87	1.32	.24	.11	.002	.000
(WY)	1962	1962	1966	1981	1986	1981	1967	1986	1986	2000	1980	1993

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	11781.27		14283.00			
ANNUAL MEAN	32.3		39.0		59.2	
HIGHEST ANNUAL MEAN					112	1984
LOWEST ANNUAL MEAN					22.1	1999
HIGHEST DAILY MEAN	2210	Oct 11	2210	Oct 11	5240	Oct 11 1990
LOWEST DAILY MEAN	.00	Aug 7	.00	Jul 4	.00	Sep 12 1954
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 7	.00	Aug 11	.00	Sep 12 1954
INSTANTANEOUS PEAK FLOW			7520	Oct 11	11400	Jul 23 1997
INSTANTANEOUS PEAK STAGE			13.28	Oct 11	16.54	Jul 23 1997
INSTANTANEOUS LOW FLOW			.00*	Jul 4	.00*	Sep 12 1954
ANNUAL RUNOFF (CFSM)	.58		.70		1.06	
ANNUAL RUNOFF (INCHES)	7.88		9.56		14.47	
10 PERCENT EXCEEDS	50		76		120	
50 PERCENT EXCEEDS	6.1		8.5		12	
90 PERCENT EXCEEDS	.10		.01		.40	

e Estimated.
* See REMARKS.

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC--Continued



02126000 ROCKY RIVER NEAR NORWOOD, NC

LOCATION.--Lat 35°08'54", long 80°10'33", Stanly County, Hydrologic Unit 03040105, on left bank 1,000 ft downstream of Lanes Creek, 1.5 mi upstream from bridge on Secondary Road 1935, 6 mi southwest of Norwood, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--1,372 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 212.91 ft above sea level (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. Minimum discharge for the current water year also occurred July 6, 7.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1908 reached a stage of 35 ft, from information by local residents; discharge, 67,600 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	210	296	248	7290	585	581	807	162	151	e150	122
2	489	214	264	242	4970	517	527	596	162	117	601	696
3	282	273	247	232	3830	468	547	504	162	97	404	2240
4	204	349	235	236	4580	455	e694	557	162	88	277	3740
5	189	245	223	271	4290	621	645	475	407	80	1220	2680
6	189	207	215	326	3030	605	537	372	1910	81	349	656
7	178	191	213	285	2360	494	477	326	735	84	188	341
8	154	186	214	251	2090	439	488	292	208	110	133	238
9	139	184	212	240	e1800	409	1440	274	e140	121	121	190
10	146	185	205	2790	e1400	390	1100	256	e120	114	166	164
11	16900	185	221	5660	e1200	374	730	244	e110	99	250	131
12	10100	376	276	1800	4540	382	592	234	e100	135	243	113
13	4030	589	240	998	10400	401	543	220	98	254	156	114
14	3490	324	337	707	10600	368	864	202	101	346	e116	115
15	1200	241	1040	541	8860	337	1450	218	103	220	e114	116
16	719	212	609	460	3060	335	3190	214	101	181	e112	115
17	581	194	409	426	1890	2630	1800	181	97	124	e110	115
18	623	183	329	400	1940	2450	2650	175	98	101	e108	117
19	465	180	304	400	2270	878	1890	168	99	93	e106	120
20	497	179	350	562	1600	2670	1030	164	91	93	e160	330
21	2020	179	495	893	1180	8150	737	162	92	96	e138	230
22	e1500	187	815	685	981	2960	582	177	93	177	e104	1390
23	e800	192	957	1230	864	1600	475	581	93	130	98	10900
24	518	196	614	4940	780	1160	418	276	89	361	97	6460
25	380	192	456	3900	718	948	453	202	87	432	104	1110
26	e330	325	371	4230	664	810	689	186	87	214	99	2450
27	296	1840	330	2810	620	720	582	178	94	189	102	1120
28	271	932	315	1790	664	1080	541	167	110	135	114	523
29	250	488	300	1280	715	1110	1960	162	106	e122	98	363
30	236	360	280	4410	---	786	1220	162	187	e121	98	288
31	220	---	261	13100	---	663	---	162	---	e120	103	---
TOTAL	48626	9798	11633	56343	89186	35795	29432	8894	6204	4786	6239	37287
MEAN	1569	327	375	1818	3075	1155	981	287	207	154	201	1243
MAX	16900	1840	1040	13100	10600	8150	3190	807	1910	432	1220	10900
MIN	139	179	205	232	620	335	418	162	87	80	97	113
CFSM	1.14	.24	.27	1.32	2.24	.84	.72	.21	.15	.11	.15	.91
IN.	1.32	.27	.32	1.53	2.42	.97	.80	.24	.17	.13	.17	1.01

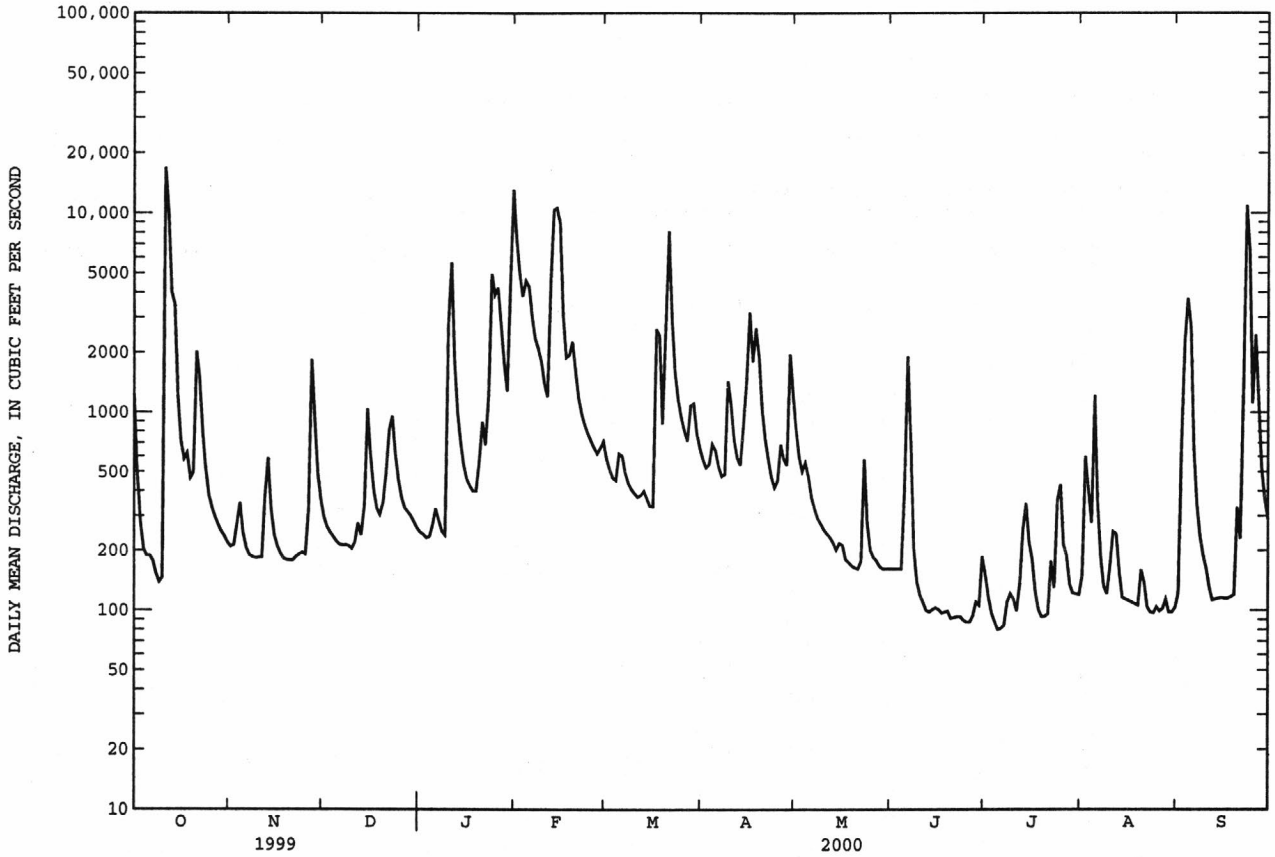
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

MEAN	906	794	1291	2503	2789	2724	1747	827	674	766	740	674
MAX	6837	4763	4564	7458	7922	7674	7097	3998	3017	3479	2917	8262
(WY)	1991	1949	1933	1998	1960	1993	1936	1975	1982	1997	1967	1945
MIN	45.9	54.1	105	152	321	412	234	142	88.5	95.6	82.4	41.0
(WY)	1931	1942	1934	1934	1938	1981	1967	1981	1986	1986	1957	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000	
ANNUAL TOTAL	275099		344223			
ANNUAL MEAN	754		940		1363	
HIGHEST ANNUAL MEAN					2492	1975
LOWEST ANNUAL MEAN					449	1951
HIGHEST DAILY MEAN	23000	Jan 24	16900	Oct 11	85600	Sep 18 1945
LOWEST DAILY MEAN	76	Sep 4	80	Jul 5	19	Oct 28 1931
ANNUAL SEVEN-DAY MINIMUM	82	Aug 5	90	Jun 20	26	Oct 7 1954
INSTANTANEOUS PEAK FLOW			29400	Oct 11	105000	Sep 18 1945
INSTANTANEOUS PEAK STAGE			19.96	Oct 11	46.37*	Sep 18 1945
INSTANTANEOUS LOW FLOW			79*	Jul 5	17	Oct 8 1954
ANNUAL RUNOFF (CFSM)	.55		.69		.99	
ANNUAL RUNOFF (INCHES)	7.46		9.33		13.50	
10 PERCENT EXCEEDS	1200		2300		2980	
50 PERCENT EXCEEDS	254		326		405	
90 PERCENT EXCEEDS	100		106		106	

e Estimated.
* See REMARKS.

02126000 ROCKY RIVER NEAR NORWOOD, NC--Continued



02128000 LITTLE RIVER NEAR STAR, NC

LOCATION.--Lat 35°23'11", long 79°49'56", Montgomery County, Hydrologic Unit 03040104, on left bank 9 ft downstream from bridge on Secondary Road 1340, 50 ft upstream from Black Rock Branch, 0.2 mi upstream from Norfolk Southern Railway bridge, 0.3 mi downstream from West Fork Little River, and 3 mi west of Star.

DRAINAGE AREA.--106 mi^2.

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

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

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 5, 1968, as a result of upstream withdrawals for water supply. Minimum discharge for current water year also occurred Aug. 27.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	33	43	39	469	82	87	99	28	9.7	15	2.8
2	79	39	40	38	380	79	81	77	25	8.1	41	3.3
3	50	51	38	39	295	74	85	69	23	7.2	28	7.6
4	40	e54	38	41	389	79	108	63	22	6.3	24	58
5	35	36	36	87	403	97	94	59	29	6.2	22	91
6	32	33	37	69	293	77	81	55	41	5.3	16	35
7	28	33	37	50	226	71	74	53	33	14	12	17
8	26	33	35	45	212	68	83	51	26	31	9.4	11
9	24	33	33	48	178	68	446	49	22	19	7.9	7.9
10	36	33	36	809	153	67	177	48	19	12	9.7	6.3
11	529	33	42	455	135	66	108	47	18	8.3	12	5.1
12	277	34	44	147	296	69	91	44	16	116	13	4.2
13	141	34	39	95	723	67	85	44	15	40	10	3.6
14	235	33	294	74	625	62	94	42	15	22	8.8	3.1
15	89	33	179	62	452	60	182	39	15	24	6.9	2.6
16	57	32	82	59	222	63	393	37	15	22	5.5	1.9
17	49	30	59	56	155	94	199	36	16	14	4.9	1.5
18	53	32	51	58	264	119	195	36	15	11	4.2	1.6
19	48	30	50	60	354	75	187	35	12	9.1	3.3	4.4
20	56	31	53	111	191	84	118	33	12	11	3.6	4.2
21	250	31	53	229	135	254	99	32	12	8.6	3.2	3.4
22	125	34	64	103	114	182	89	73	11	7.7	2.2	7.6
23	70	42	67	e80	104	105	81	49	9.8	7.7	1.6	47
24	51	43	55	e76	97	87	77	42	9.0	9.8	1.5	167
25	43	37	49	e72	93	80	79	36	7.6	10	2.3	38
26	40	107	45	e68	90	78	87	34	7.2	10	1.3	69
27	38	388	44	e64	88	77	98	31	8.3	10	1.3	57
28	37	100	43	e60	93	475	144	29	11	9.5	1.6	24
29	36	62	42	e56	92	205	427	38	12	9.3	1.7	14
30	34	49	41	368	---	116	150	36	11	8.2	1.8	9.3
31	33	---	39	1370	---	99	---	31	---	8.9	3.1	---
TOTAL	2837	1593	1808	4988	7321	3279	4299	1447	515.9	495.9	278.8	708.4
MEAN	91.5	53.1	58.3	161	252	106	143	46.7	17.2	16.0	8.99	23.6
MAX	529	388	294	1370	723	475	446	99	41	116	41	167
MIN	24	30	33	38	88	60	74	29	7.2	5.3	1.3	1.5
CFSM	.86	.50	.55	1.52	2.38	1.00	1.35	.44	.16	.15	.08	.22
IN.	1.00	.56	.63	1.75	2.57	1.15	1.51	.51	.18	.17	.10	.25

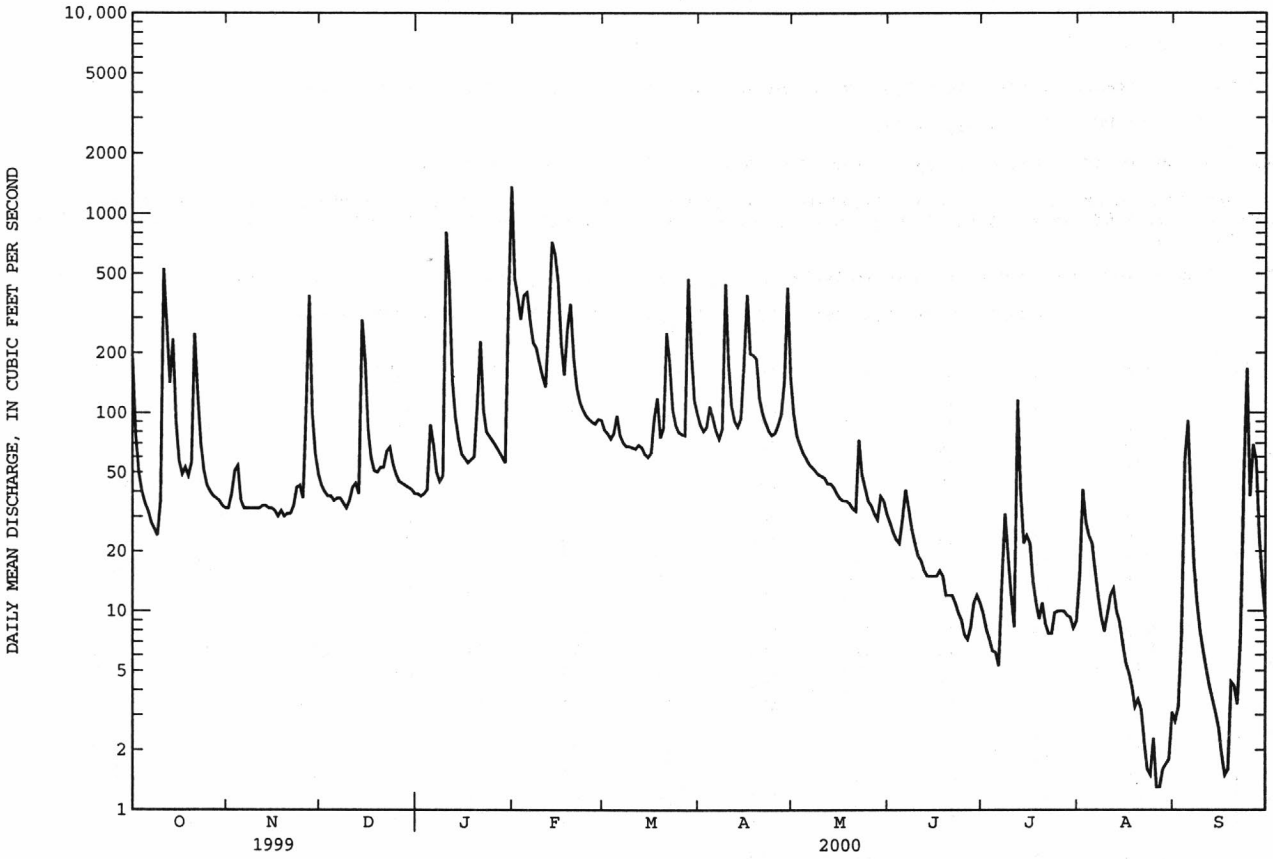
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	69.8	67.5	97.4	174	216	223	174	99.1	71.1	67.7	51.1	49.3
MAX	337	366	361	511	467	678	430	296	273	578	249	261
(WY)	1991	1986	1973	1998	1960	1998	1958	1990	1972	1997	1985	1979
MIN	4.03	10.7	18.7	26.7	56.1	47.0	38.0	30.3	12.8	6.37	4.80	.76
(WY)	1987	1962	1966	1981	1986	1967	1967	1981	1967	1977	1983	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	30334.77		29571.0			
ANNUAL MEAN	83.1		80.8		113	
HIGHEST ANNUAL MEAN					209	1975
LOWEST ANNUAL MEAN					42.4	1967
HIGHEST DAILY MEAN	2040	Jan 24	1370	Jan 31	9800	Jul 23 1997
LOWEST DAILY MEAN	.64	Aug 13	1.3	Aug 26	.27	Oct 4 1968
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 8	1.6	Aug 23	.30	Sep 28 1968
INSTANTANEOUS PEAK FLOW			2090	Jan 31	15400	Jul 23 1997
INSTANTANEOUS PEAK STAGE			6.69	Jan 31	18.60	Jul 23 1997
INSTANTANEOUS LOW FLOW			1.1*	Aug 26	.24*	Oct 4 1968
ANNUAL RUNOFF (CFSM)	.78		.76		1.07	
ANNUAL RUNOFF (INCHES)	10.65		10.38		14.51	
10 PERCENT EXCEEDS	133		188		196	
50 PERCENT EXCEEDS	43		42		50	
90 PERCENT EXCEEDS	8.4		7.5		9.6	

e Estimated.
* See REMARKS.

02128000 LITTLE RIVER NEAR STAR, NC--Continued



02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC

LOCATION.--Lat 34°56'46", long 79°52'11", Richmond County, Hydrologic Unit 03040201, on left bank at bridge on U.S. Highway 74, 2.5 mi upstream from Falling Creek, 3.3 mi downstream of Blewett Falls hydroelectric plant, 6 mi west of Rockingham, and 192 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,863 mi^2.

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15800	3490	5020	3320	26200	6220	4500	5850	4020	509	2660	1310
2	6140	2460	1000	1440	20800	7640	1740	5810	5450	530	3010	2490
3	4230	4820	4560	4580	17200	5970	5630	5920	967	352	2760	5480
4	2920	3790	1280	5140	14200	4290	6290	6610	366	1540	1720	4370
5	813	3820	1130	4640	14100	1770	6580	4610	1560	3900	2220	5540
6	4190	778	1960	4830	10500	5770	7160	6490	4720	3920	1930	5300
7	4460	650	2820	4940	9840	5700	7260	4100	1280	3500	3510	2790
8	4420	1140	4860	2110	10000	5670	5050	4260	4420	527	2290	2750
9	4260	2040	3930	877	10200	5520	4240	6420	6180	336	2530	1350
10	1000	2350	3200	6180	10100	5420	5850	6770	4180	3060	2410	966
11	7940	2480	829	14400	10100	2190	10000	4270	2470	3490	1580	1990
12	29200	2440	615	12500	10100	2210	9940	5670	3560	3930	1500	1900
13	12100	1190	949	9550	16800	3060	9850	4250	2510	723	628	2330
14	11500	922	3800	8690	17900	4790	9810	695	2580	4270	795	2150
15	10500	2450	5460	3400	27800	4120	7430	2390	1890	1490	1920	2120
16	9350	3300	7550	1410	17500	3970	5190	2780	1840	585	2660	1030
17	4910	2950	5050	5540	12200	4160	4970	2260	2380	1650	2420	644
18	6170	1890	1300	8120	11300	10100	7200	3620	2510	3070	2780	533
19	4530	3550	1280	7070	10800	10200	12800	6070	2600	2790	2230	1990
20	5020	407	4940	3000	10000	9000	11300	4090	2110	2670	1980	2190
21	5730	705	5450	8640	8700	8730	11000	733	3000	2420	921	3240
22	8560	3500	5560	6240	6870	10100	6920	2510	1870	896	783	3900
23	5140	3020	6710	4190	8020	10100	1220	1190	2210	647	1490	9210
24	1450	4210	2730	9650	9690	8230	4660	3850	2940	2700	1670	15100
25	5650	768	1910	10800	9790	6990	9820	5460	1780	1460	2420	8560
26	3910	4590	1440	16000	6150	3790	8570	1950	2540	3880	655	6890
27	3900	3870	4060	15400	1220	6080	7870	2570	2970	3960	380	4440
28	4390	2550	4570	13600	6440	7950	9950	707	3820	4550	2810	4880
29	2180	5090	5230	9140	5800	8760	8420	740	510	2290	2760	1490
30	345	5890	4700	7870	---	9890	3740	503	1000	1070	2710	1070
31	713	---	5960	22000	---	8630	---	1890	---	2230	1740	---
TOTAL	191421	81110	109853	235267	350320	197020	214960	115038	80233	68945	61872	108003
MEAN	6175	2704	3544	7589	12080	6355	7165	3711	2674	2224	1996	3600
MAX	29200	5890	7550	22000	27800	10200	12800	6770	6180	4550	3510	15100
MIN	345	407	615	877	1220	1770	1220	503	366	336	380	533
†	-710	-198	+292	+279	-344	+882	+473	-464	-605	-569	-258	+833

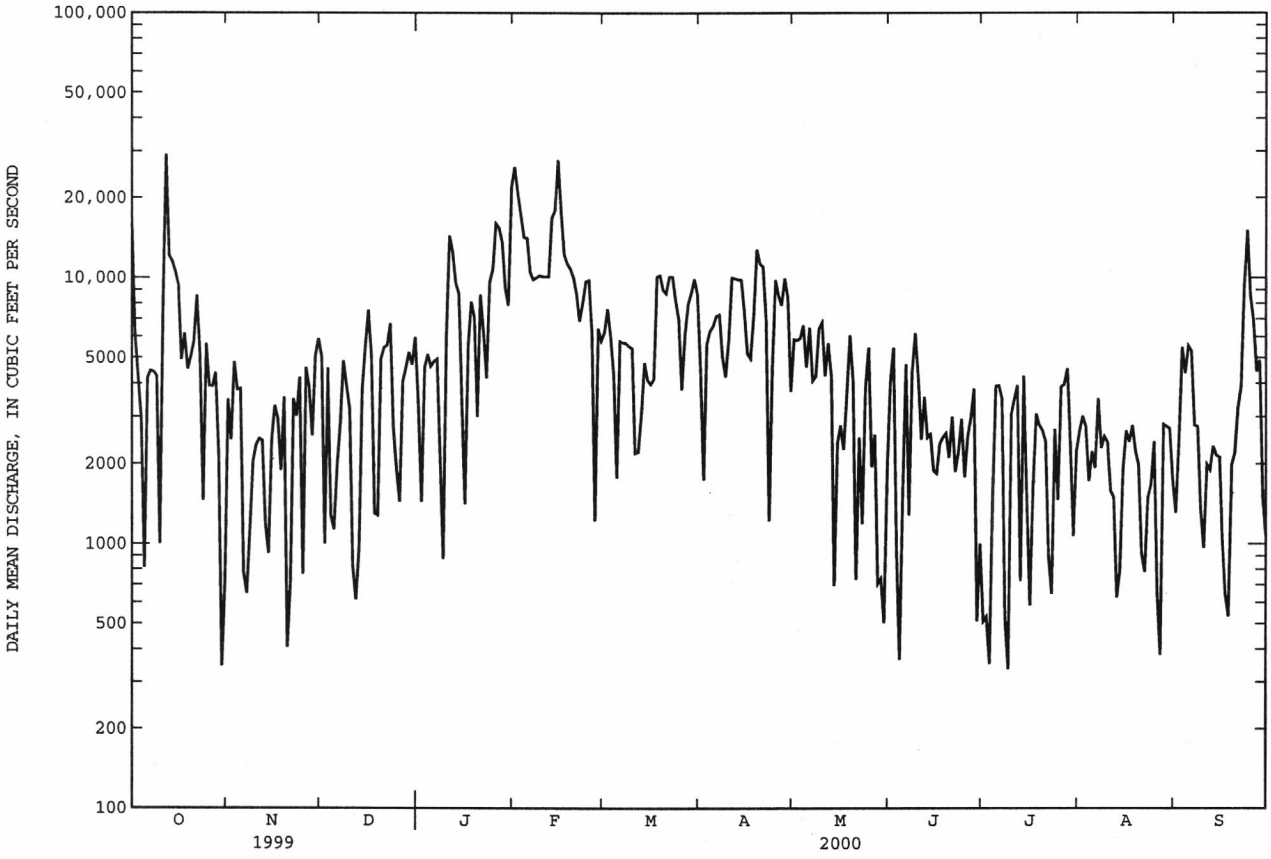
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000*, BY WATER YEAR (WY)

MEAN	6016	5579	7538	11180	12700	13520	10840	7294	5918	5297	5413	5409
MAX	25850	16120	20300	31270	36040	34480	31340	15630	15210	16790	19180	35690
(WY)	1991	1958	1933	1937	1960	1993	1936	1958	1972	1975	1928	1928
MIN	1293	1607	2640	2475	3704	4117	2692	2026	1853	1692	1456	1008
(WY)	1954	1954	1940	1956	1934	1981	1981	1986	1986	1986	1954	1954

02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000*	
ANNUAL TOTAL	1733155		1814042			
ANNUAL MEAN	4748		4956	‡4931	8036	(UNADJUSTED)
HIGHEST ANNUAL MEAN					13000	1975
LOWEST ANNUAL MEAN					3944	1981
HIGHEST DAILY MEAN	50900	Jan 25	29200	Oct 12	242000	Sep 18 1945
LOWEST DAILY MEAN	345	Sep 20	336	Jul 9	58*	Dec 2 1951
ANNUAL SEVEN-DAY MINIMUM	1230	Aug 4	1180	Jun 28	185	Sep 28 1985
INSTANTANEOUS PEAK FLOW			39800	Oct 12	270000*	Sep 18 1945
INSTANTANEOUS PEAK STAGE			8.74	Oct 12	30.80*	Sep 18 1945
INSTANTANEOUS LOW FLOW			214	Sep 19	50*	Dec 2 1951
10 PERCENT EXCEEDS	9350		10100		14400	
50 PERCENT EXCEEDS	3540		3930		5650	
90 PERCENT EXCEEDS	646		941		1710	

† 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.
‡ Adjusted for change in contents.
* Regulated period only (1928-2000). See REMARKS.



02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC

LOCATION.--Lat 34°45'01", long 79°23'12", Scotland County, Hydrologic Unit 03040204, at downstream side of bridge near center of span on U.S. Highway 74, 2.5 mi downstream of Jordan Creek, and 4.5 mi southeast of Laurinburg.

DRAINAGE AREA.-- 83.3 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1949-54, 1959, 1962, 1968-69. June 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 170 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for current water year and period of record from rating curve extended above 600 ft^3/s by logarithmic plotting. Maximum discharge for current year also occurred Oct. 20. Minimum discharge for current water year also occurred Aug. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	586	138	181	106	311	153	129	93	33	49	47	51
2	612	140	156	105	426	154	122	86	27	52	45	54
3	424	143	134	104	505	154	122	76	25	51	55	152
4	337	149	121	104	523	152	120	67	51	45	69	189
5	269	152	113	111	445	150	116	63	59	42	111	184
6	218	148	108	121	388	148	108	60	61	61	120	181
7	188	140	112	129	339	146	102	59	54	63	137	182
8	167	129	119	127	277	143	99	54	46	54	187	171
9	149	120	123	120	253	140	110	49	41	50	179	130
10	136	115	118	140	237	136	115	47	36	44	121	81
11	122	113	112	166	226	133	109	45	31	38	72	65
12	108	111	108	226	229	135	97	42	27	35	65	54
13	138	110	109	306	227	142	100	39	25	42	55	45
14	185	112	124	296	245	150	113	37	26	58	48	42
15	236	116	137	251	265	147	132	36	43	55	42	43
16	244	112	159	207	275	164	144	35	51	47	37	49
17	299	107	177	175	283	182	157	34	44	40	34	46
18	486	103	170	158	275	174	158	37	37	36	32	45
19	1130	100	157	151	257	167	151	40	39	31	33	63
20	1150	99	149	155	235	173	147	39	47	28	32	68
21	746	103	158	163	223	182	134	28	45	31	30	64
22	479	106	166	175	215	191	110	28	40	33	28	63
23	345	106	161	199	207	201	94	34	47	33	27	149
24	250	104	151	238	198	196	83	35	62	32	25	216
25	216	102	140	452	191	178	88	29	61	42	29	321
26	194	102	132	770	182	159	116	30	43	57	39	425
27	176	116	125	1050	159	148	125	31	35	56	36	387
28	164	131	120	913	152	156	117	32	30	50	36	300
29	154	152	113	636	151	152	108	36	43	45	35	235
30	148	181	109	495	---	146	108	39	57	40	35	161
31	142	---	107	409	---	137	---	37	---	48	47	---
TOTAL	10198	3660	4169	8758	7899	4889	3534	1397	1266	1388	1888	4216
MEAN	329	122	134	283	272	158	118	45.1	42.2	44.8	60.9	141
MAX	1150	181	181	1050	523	201	158	93	62	63	187	425
MIN	108	99	107	104	151	133	83	28	25	28	25	42
CFSM	3.95	1.46	1.61	3.39	3.27	1.89	1.41	.54	.51	.54	.73	1.69
IN.	4.55	1.63	1.86	3.91	3.53	2.18	1.58	.62	.57	.62	.84	1.88

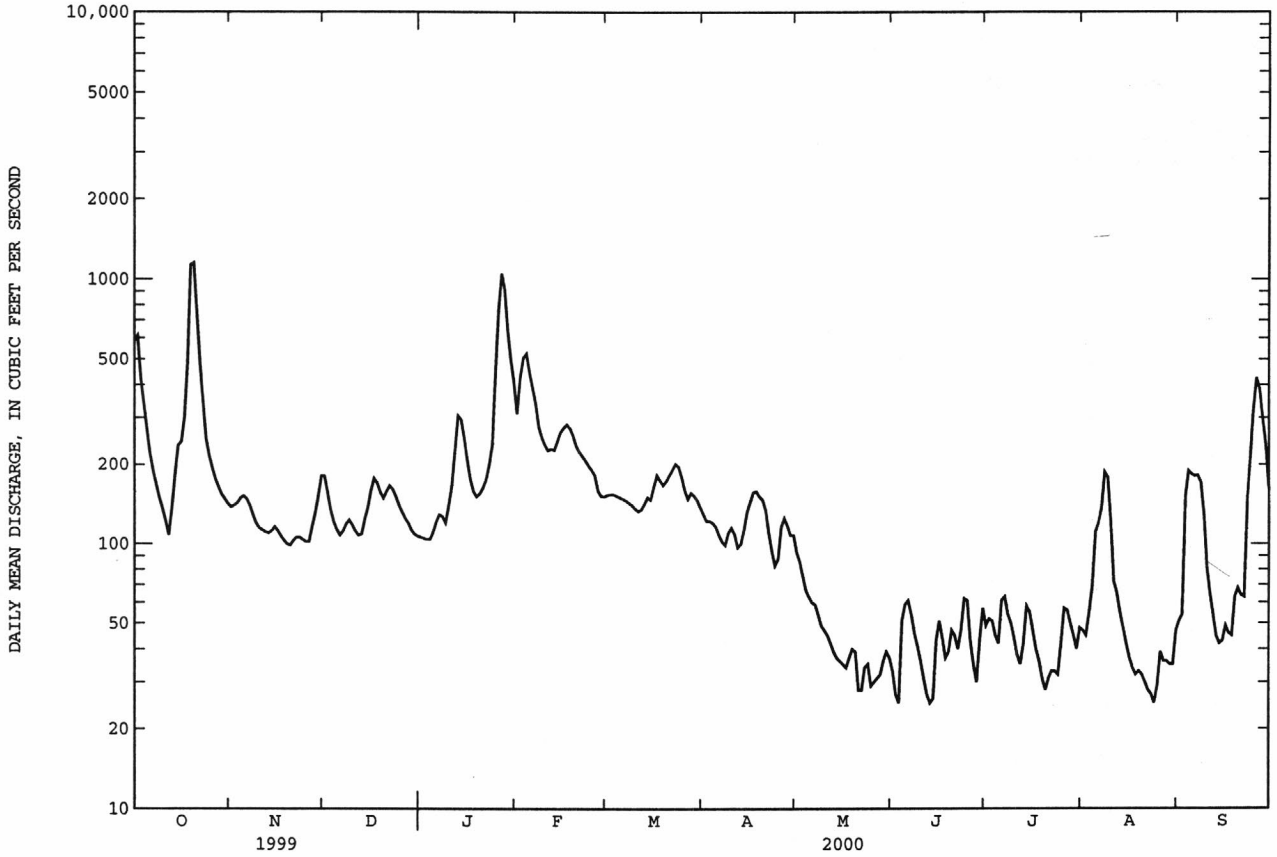
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	96.0	88.2	99.3	147	148	154	112	72.0	61.2	60.0	66.2	80.7
MAX	329	143	141	283	342	327	229	157	122	175	171	161
(WY)	2000	1996	1990	2000	1998	1998	1998	1989	1995	1989	1991	1999
MIN	41.3	54.1	50.2	69.3	62.0	72.0	61.9	38.5	28.3	15.6	26.8	20.3
(WY)	1988	1995	1989	1989	1989	1988	1995	1995	1990	1990	1988	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	43223		53262			
ANNUAL MEAN	118		146		98.7	
HIGHEST ANNUAL MEAN					146	2000
LOWEST ANNUAL MEAN					63.6	1988
HIGHEST DAILY MEAN	1150	Oct 20	1150	Oct 20	1150	Oct 20 1999
LOWEST DAILY MEAN	15	Aug 12	25	Jun 3	4.7	Aug 1 1990
ANNUAL SEVEN-DAY MINIMUM	16	Aug 8	29	Aug 19	5.9	Jul 30 1990
INSTANTANEOUS PEAK FLOW			1360	Oct 19*	1360	Oct 19 1999*
INSTANTANEOUS PEAK STAGE			5.03	Oct 19	5.03	Oct 19 1999
INSTANTANEOUS LOW FLOW			23	Jun 3*	3.9	Aug 1 1990
ANNUAL RUNOFF (CFSM)	1.42		1.75		1.18	
ANNUAL RUNOFF (INCHES)	19.30		23.79		16.09	
10 PERCENT EXCEEDS	214		266		184	
50 PERCENT EXCEEDS	99		116		75	
90 PERCENT EXCEEDS	25		35		30	

* See REMARKS.

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC--Continued



02133500 DROWNING CREEK NEAR HOFFMAN, NC

LOCATION.--Lat 35°03'38", long 79°29'39", Richmond County, Hydrologic Unit 03040203, on right bank 10 ft downstream of bridge on U.S. Highway 1, 1 mi upstream from Seaboard Coast Line Railroad bridge, 0.8 mi downstream of Deep Creek, and 4 mi northeast of Hoffman.

DRAINAGE AREA.--183 mi^2.

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

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

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage. These withdrawals cause some diurnal fluctuation at low to medium flow and may affect yearly minimums. A daily average of 5.2 ft^3/s was diverted during the year.

REVISIONS.--Maximum discharge for water year 1999 to 1,070 ft^3/s, Jan. 26, 1999, gage height 6.35 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	191	298	165	566	391	262	326	75	158	155	102
2	998	201	237	163	692	379	252	312	54	106	259	99
3	619	239	215	165	714	362	252	284	45	68	348	121
4	452	270	194	172	624	336	260	237	58	46	342	178
5	386	260	184	222	565	326	260	206	125	48	306	246
6	351	210	198	239	542	323	255	184	199	91	272	294
7	323	187	229	208	540	316	240	160	251	107	245	341
8	292	184	221	189	520	311	224	149	227	79	175	256
9	260	179	194	180	502	305	253	138	118	70	112	143
10	234	171	183	248	489	294	294	123	83	62	108	111
11	253	169	184	413	474	281	318	113	63	46	e125	96
12	317	173	194	667	484	282	307	106	55	63	e100	85
13	502	173	192	568	575	292	294	97	44	83	e84	69
14	567	172	243	401	774	298	283	84	39	116	e76	62
15	444	171	361	295	823	292	323	80	70	107	60	58
16	344	163	427	258	798	287	380	68	118	96	47	49
17	318	156	362	245	695	310	426	63	107	76	39	41
18	395	153	267	241	599	318	441	64	79	49	34	44
19	486	149	240	244	526	327	434	63	91	36	30	91
20	492	144	271	274	506	344	463	55	75	54	31	149
21	435	145	295	317	504	383	456	48	81	72	34	155
22	406	157	284	324	475	413	390	77	67	113	28	143
23	381	172	261	318	444	423	333	121	77	125	26	300
24	340	177	233	372	418	395	302	135	64	147	23	411
25	294	165	211	583	399	343	273	106	44	244	35	477
26	255	186	197	657	379	311	265	89	40	351	71	475
27	234	294	195	654	374	296	267	75	53	313	69	423
28	221	451	192	592	395	296	278	78	64	206	74	381
29	210	498	183	516	393	291	304	73	80	146	82	310
30	193	411	179	486	---	283	322	76	150	134	75	224
31	186	---	172	506	---	277	---	83	---	132	87	---
TOTAL	12688	6371	7296	10882	15789	10085	9411	3873	2696	3544	3552	5934
MEAN	409	212	235	351	544	325	314	125	89.9	114	115	198
MAX	1500	498	427	667	823	423	463	326	251	351	348	477
MIN	186	144	172	163	374	277	224	48	39	36	23	41
CFSM	2.24	1.16	1.29	1.92	2.98	1.78	1.71	.68	.49	.62	.63	1.08
IN.	2.58	1.30	1.48	2.21	3.21	2.05	1.91	.79	.55	.72	.72	1.21

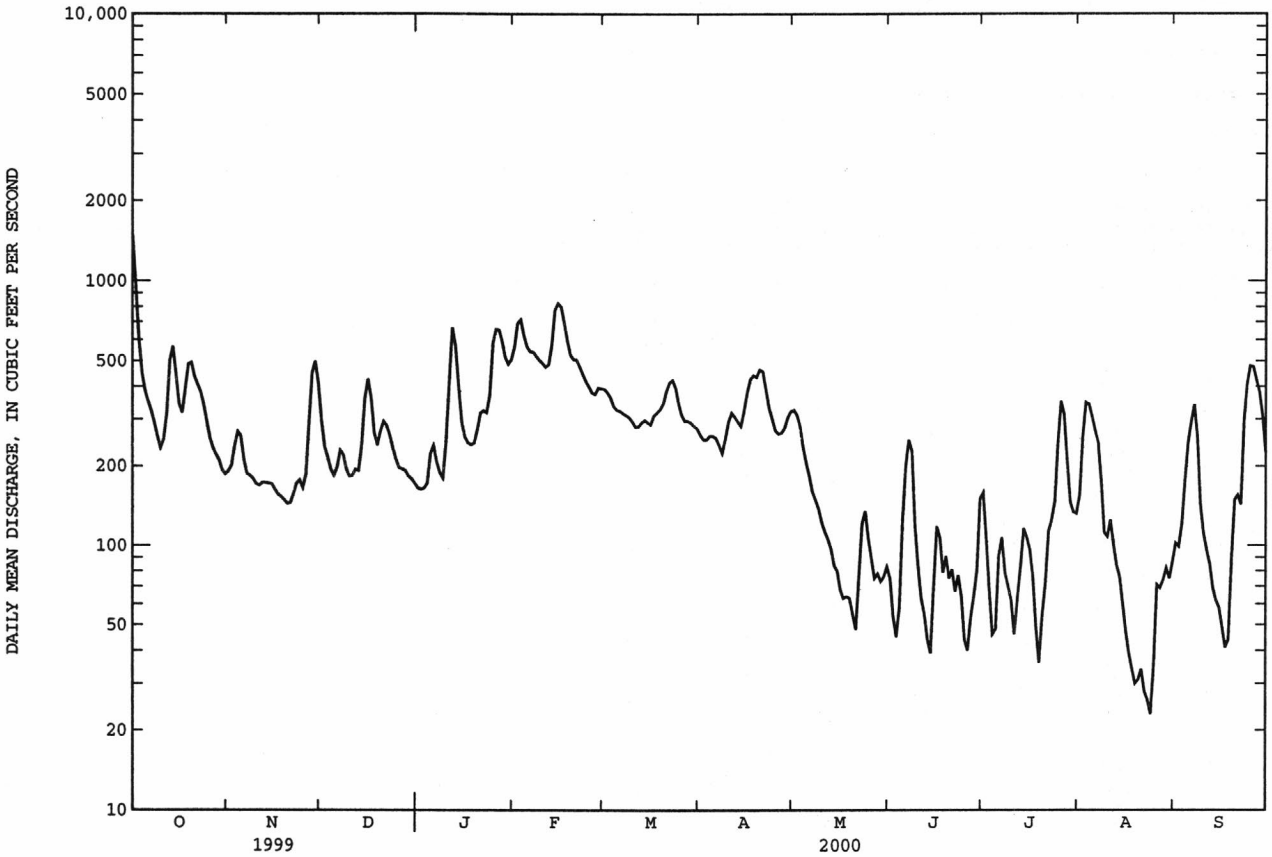
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	201	231	262	328	363	382	325	228	170	194	184	183
MAX	595	499	530	561	687	729	842	465	421	624	497	932
(WY)	1965	1980	1973	1998	1960	1998	1973	1958	1976	1944	1985	1945
MIN	48.5	93.4	135	151	147	173	111	84.5	34.5	32.9	43.4	28.8
(WY)	1941	1942	1989	1942	1992	1981	1986	1988	1988	1986	1968	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	82322		92121			
ANNUAL MEAN	226		252		254	
HIGHEST ANNUAL MEAN					397	1984
LOWEST ANNUAL MEAN					129	1992
HIGHEST DAILY MEAN	1500	Oct 1	1500	Oct 1	8530	Sep 18 1945
LOWEST DAILY MEAN	11	Aug 14	23	Aug 24	11	Aug 14 1999
ANNUAL SEVEN-DAY MINIMUM	13	Aug 8	29	Aug 18	13	Aug 8 1999
INSTANTANEOUS PEAK FLOW			1610	Oct 1	10900	Sep 18 1945
INSTANTANEOUS PEAK STAGE			6.92	Oct 1	10.29	Sep 18 1945
INSTANTANEOUS LOW FLOW			20*	Aug 25	20*	Aug 25 2000
ANNUAL RUNOFF (CFSM)	1.23		1.38		1.39	
ANNUAL RUNOFF (INCHES)	16.73		18.73		18.84	
10 PERCENT EXCEEDS	436		485		480	
50 PERCENT EXCEEDS	200		234		205	
90 PERCENT EXCEEDS	44		63		79	

e Estimated.
* See REMARKS.

02133500 DROWNING CREEK NEAR HOFFMAN, NC--Continued



02133624 LUMBER RIVER NEAR MAXTON, NC

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

DRAINAGE AREA.--365 mi^2.

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

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

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for current water year also occurred Aug. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	829	452	667	420	1030	701	496	440	211	254	290	200
2	1090	443	747	413	1040	719	481	443	202	274	275	214
3	1450	433	711	407	1020	737	466	448	192	275	289	327
4	1550	431	618	399	1020	734	449	451	209	242	323	375
5	1210	441	523	403	1050	704	430	438	215	200	397	455
6	948	452	466	417	1050	666	420	411	241	195	438	497
7	789	465	444	448	998	628	417	375	264	206	500	483
8	681	473	440	477	942	590	420	334	287	236	470	467
9	604	459	452	490	903	565	425	299	303	246	403	459
10	558	432	461	525	876	549	416	277	310	242	344	449
11	518	409	457	579	853	541	417	262	275	219	277	427
12	483	398	442	751	843	545	419	251	221	193	260	318
13	499	391	428	843	846	554	436	242	183	219	246	235
14	575	388	443	888	941	549	463	233	165	239	224	210
15	612	387	473	994	1070	512	495	220	162	236	193	195
16	747	384	544	959	1260	548	509	201	163	237	176	192
17	944	380	586	828	1340	608	516	192	186	225	159	181
18	1090	377	619	703	1320	566	538	184	208	201	146	173
19	1130	370	710	603	1280	562	564	180	216	174	145	174
20	1100	363	711	558	1200	588	609	180	207	152	139	190
21	1030	364	649	550	1090	632	621	176	246	161	135	217
22	1020	364	590	576	993	663	598	178	238	185	127	243
23	981	356	566	656	933	698	590	189	236	196	125	400
24	885	355	564	767	905	704	588	208	281	219	121	492
25	794	362	560	1000	879	715	563	231	277	253	123	692
26	729	376	536	1090	833	718	528	239	223	295	126	848
27	666	401	498	1080	796	693	479	232	179	330	144	835
28	605	442	464	1030	764	654	453	223	158	355	161	759
29	549	562	441	1030	720	588	435	218	176	383	158	683
30	499	604	429	1030	---	554	435	226	215	414	170	608
31	471	---	427	1040	---	523	---	224	---	370	194	---
TOTAL	25636	12514	16666	21954	28795	19308	14676	8405	6649	7626	7278	11998
MEAN	827	417	538	708	993	623	489	271	222	246	235	400
MAX	1550	604	747	1090	1340	737	621	451	310	414	500	848
MIN	471	355	427	399	720	512	416	176	158	152	121	173
CFSM	2.27	1.14	1.47	1.94	2.72	1.71	1.34	.74	.61	.67	.64	1.10
IN.	2.61	1.28	1.70	2.24	2.93	1.97	1.50	.86	.68	.78	.74	1.22

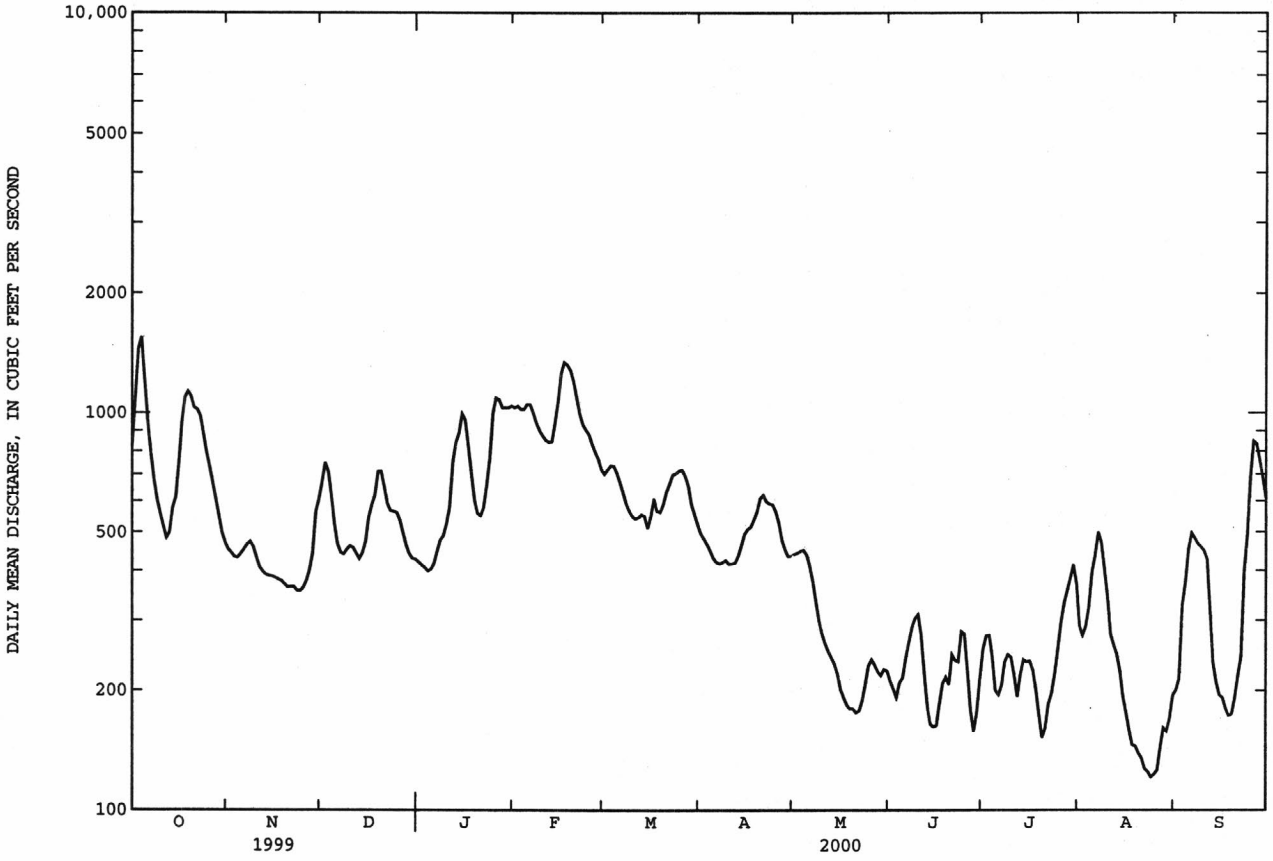
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	414	426	460	628	652	687	575	381	292	302	289	350
MAX	827	661	650	926	1205	1267	1106	769	575	690	577	915
(WY)	2000	1996	1990	1998	1998	1998	1998	1989	1995	1995	1989	1996
MIN	184	267	282	364	300	363	303	202	135	147	132	130
(WY)	1988	1992	1992	1992	1992	1992	1992	1994	1988	1990	1999	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	168652		181505			
ANNUAL MEAN	462		496		454	
HIGHEST ANNUAL MEAN					640	1998
LOWEST ANNUAL MEAN					283	1992
HIGHEST DAILY MEAN	1550	Oct 4	1550	Oct 4	3070	Mar 22 1998
LOWEST DAILY MEAN	75	Aug 13	121	Aug 24	75	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	79	Aug 9	128	Aug 20	79	Aug 9 1999
INSTANTANEOUS PEAK FLOW			1670	Oct 4	3380	Mar 22 1998
INSTANTANEOUS PEAK STAGE			12.02	Oct 4	13.52	Mar 22 1998
INSTANTANEOUS LOW FLOW			119*	Aug 24	73	Aug 14 1999
ANNUAL RUNOFF (CFSM)	1.27		1.36		1.24	
ANNUAL RUNOFF (INCHES)	17.19		18.50		16.91	
10 PERCENT EXCEEDS	838		943		804	
50 PERCENT EXCEEDS	446		444		398	
90 PERCENT EXCEEDS	137		190		163	

* See REMARKS.

02133624 LUMBER RIVER NEAR MAXTON, NC--Continued



02134480 BIG SWAMP NEAR TARHEEL, NC

LOCATION.--Lat 34°42'37", long 78°50'14", Robeson County, Hydrologic Unit 03040203, on left bank at downstream side of bridge on Secondary Road 1004, and 2.8 mi southwest of Tarheel.

DRAINAGE AREA.--229 mi^2.

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

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

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record, no flow, also occurred Sept. 1-4, 1993.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	492	236	228	1020	328	284	217	25	20	85	96
2	987	470	235	219	1020	320	269	248	21	20	83	115
3	1120	450	232	213	989	311	251	264	16	14	57	152
4	1130	434	226	209	979	301	231	252	28	9.6	52	181
5	996	426	220	211	913	291	211	224	82	7.4	71	231
6	890	422	216	211	810	279	196	196	138	7.7	71	314
7	778	415	211	214	731	267	181	168	178	12	62	394
8	679	405	206	219	659	258	168	138	204	19	45	420
9	598	395	202	226	601	250	166	102	198	16	38	398
10	530	385	199	252	547	239	164	75	158	12	40	347
11	476	365	195	289	506	228	165	58	89	8.4	29	301
12	435	346	191	321	478	230	161	47	50	8.5	36	251
13	406	333	189	374	476	223	157	38	34	14	74	201
14	401	319	197	434	506	217	157	30	25	25	92	147
15	386	305	203	455	558	215	175	26	36	25	77	91
16	379	294	211	445	617	218	201	21	74	18	35	66
17	577	284	225	414	665	235	217	18	93	13	25	53
18	2220	275	249	380	667	242	242	15	70	17	19	61
19	3190	268	277	355	629	247	252	14	47	14	30	118
20	3210	260	297	350	582	267	258	14	43	9.0	49	131
21	2910	252	301	339	533	300	260	12	53	5.3	45	134
22	2290	245	301	328	491	312	256	13	43	4.4	36	141
23	1730	239	302	367	454	326	239	17	33	5.1	28	216
24	1330	235	307	477	424	350	213	19	24	8.0	21	295
25	1080	234	301	828	396	357	191	20	18	16	18	395
26	912	235	293	1340	371	345	171	28	14	44	18	545
27	795	238	282	1480	354	329	154	27	11	75	22	714
28	703	239	271	1430	346	328	147	20	8.4	93	20	800
29	633	238	260	1280	337	319	162	22	7.3	106	19	735
30	573	237	249	1130	---	308	188	24	11	110	28	636
31	531	---	239	1040	---	298	---	27	---	84	69	---
TOTAL	33905	9735	7523	16058	17659	8738	6087	2394	1831.7	840.4	1394	8679
MEAN	1094	324	243	518	609	282	203	77.2	61.1	27.1	45.0	289
MAX	3210	492	307	1480	1020	357	284	264	204	110	92	800
MIN	379	234	189	209	337	215	147	12	7.3	4.4	18	53
CFSM	4.78	1.42	1.06	2.26	2.66	1.23	.89	.34	.27	.12	.20	1.26
IN.	5.51	1.58	1.22	2.61	2.87	1.42	.99	.39	.30	.14	.23	1.41

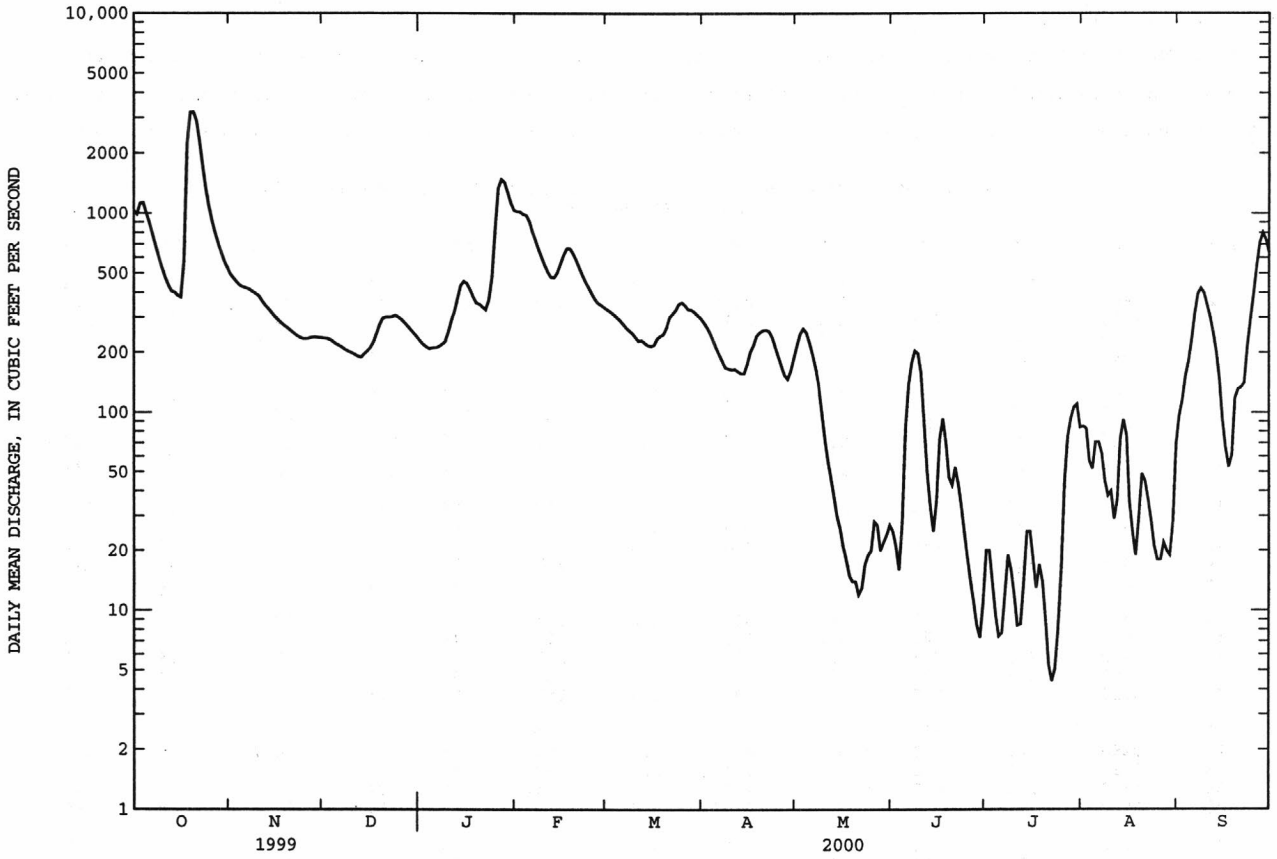
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)

MEAN	203	170	230	451	423	436	264	127	92.9	91.3	127	227
MAX	1094	382	396	1001	1418	1194	571	362	474	407	358	923
(WY)	2000	1993	1990	1993	1998	1998	1993	1999	1995	1995	1991	1999
MIN	3.43	15.3	64.7	92.9	127	138	66.8	17.1	15.0	8.31	17.6	6.98
(WY)	1999	1999	1999	1986	1986	1988	1986	1986	1986	1998	1987	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1986 - 2000	
ANNUAL TOTAL	129042.9		114844.1			
ANNUAL MEAN	354		314		236	
HIGHEST ANNUAL MEAN					395	1998
LOWEST ANNUAL MEAN					101	1986
HIGHEST DAILY MEAN	3300	Sep 17	3210	Oct 20	3900	Feb 6 1998
LOWEST DAILY MEAN	1.7	Aug 13	4.4	Jul 22	.00	Aug 31 1993
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 8	8.8	Jul 19	.01	Aug 29 1993
INSTANTANEOUS PEAK FLOW			3300	Oct 19	3980	Mar 11 1998
INSTANTANEOUS PEAK STAGE			13.89	Oct 19	14.34	Sep 17 1999
INSTANTANEOUS LOW FLOW			4.2	Jul 22	.00*	Aug 31 1993
ANNUAL RUNOFF (CFSM)	1.54		1.37		1.03	
ANNUAL RUNOFF (INCHES)	20.96		18.66		14.00	
10 PERCENT EXCEEDS	785		671		520	
50 PERCENT EXCEEDS	210		229		141	
90 PERCENT EXCEEDS	31		19		14	

See REMARKS.

02134480 BIG SWAMP NEAR TARHEEL, NC--Continued



02134500 LUMBER RIVER AT BOARDMAN, NC

LOCATION.--Lat 34°26'32", long 78°57'38", Robeson County, Hydrologic Unit 03040203, on right bank 150 ft downstream of bridge on U.S. Highway 74, 1 mi downstream of Seaboard Coast Line Railroad bridge at Boardman, 1.5 mi downstream of Big Swamp, and 40.5 mi upstream from mouth.

DRAINAGE AREA.--1,228 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft above sea level (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.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record also occurred Sept. 19, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 11.8 ft, from floodmark witnessed by local resident; discharge, 25,000 ft^3/s. Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft, from observations by Butters Lumber Co.; discharge, 14,800 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5240	3430	977	1660	6690	2350	2220	1280	383	512	891	805
2	5070	3080	978	1620	6450	2250	2110	1230	374	496	895	813
3	5000	2780	982	1560	6190	2150	1990	1160	366	453	899	871
4	4900	2500	993	1510	5870	2060	1860	1100	459	415	913	968
5	4730	2290	1030	1490	5520	1980	1740	1040	606	396	901	1400
6	4510	2110	1110	1460	5190	1900	1630	988	663	395	858	1700
7	4300	1960	1180	1440	4900	1830	1530	943	684	394	803	2090
8	4120	1830	1250	1420	4640	1780	1450	910	682	391	748	2320
9	3940	1710	1300	1400	4350	1740	1450	887	637	388	709	2340
10	3680	1610	1300	1490	4070	1700	1380	864	575	380	687	2260
11	3390	1510	1260	1600	3780	1660	1300	829	533	367	694	2180
12	3030	1440	1220	1690	3530	1750	1230	795	508	362	752	2080
13	2800	1380	1170	1900	3310	1720	1170	749	494	433	779	1960
14	2790	1340	1180	2090	3220	1650	1140	681	487	461	809	1830
15	2710	1310	1170	2220	3190	1590	1150	597	486	504	784	1690
16	2550	1260	1180	2310	3200	1650	1130	526	488	609	731	1540
17	2980	1210	1190	2350	3290	1980	1110	471	502	693	661	1410
18	4330	1160	1200	2420	3330	2040	1170	436	545	777	596	1390
19	5690	1120	1260	2520	3340	2160	1240	408	579	796	599	1450
20	e7200	1100	1310	2670	3340	2330	1330	388	538	739	501	1330
21	e10000	1070	1350	2780	3320	2580	1390	370	475	624	454	1220
22	12000	1050	1440	2800	3300	2730	1430	368	431	535	412	1130
23	11200	1040	1540	2920	3270	2850	1450	373	428	495	395	1200
24	10600	1020	1630	3120	3200	2860	1440	365	427	468	378	1330
25	9030	1010	1700	3950	3080	2830	1420	352	434	497	377	1660
26	8150	1010	1750	4710	2950	e2800	1430	377	431	569	394	2380
27	6650	1000	1770	5420	2800	e2780	1400	377	412	668	395	2890
28	6030	993	1760	5950	2640	e2740	1380	376	394	756	392	3170
29	5260	987	1730	6490	2480	2550	1410	383	391	785	381	3300
30	4560	980	1710	6770	---	2410	1350	387	477	827	490	3380
31	3950	---	1690	6830	---	2320	---	389	---	878	799	---
TOTAL	170390	46290	41310	88560	114440	67720	43430	20399	14889	17063	20077	54087
MEAN	5496	1543	1333	2857	3946	2185	1448	658	496	550	648	1803
MAX	12000	3430	1770	6830	6690	2860	2220	1280	684	878	913	3380
MIN	2550	980	977	1400	2480	1590	1110	352	366	362	377	805
CFSM	4.48	1.26	1.09	2.33	3.21	1.78	1.18	.54	.40	.45	.53	1.47
IN.	5.16	1.40	1.25	2.68	3.47	2.05	1.32	.62	.45	.52	.61	1.64

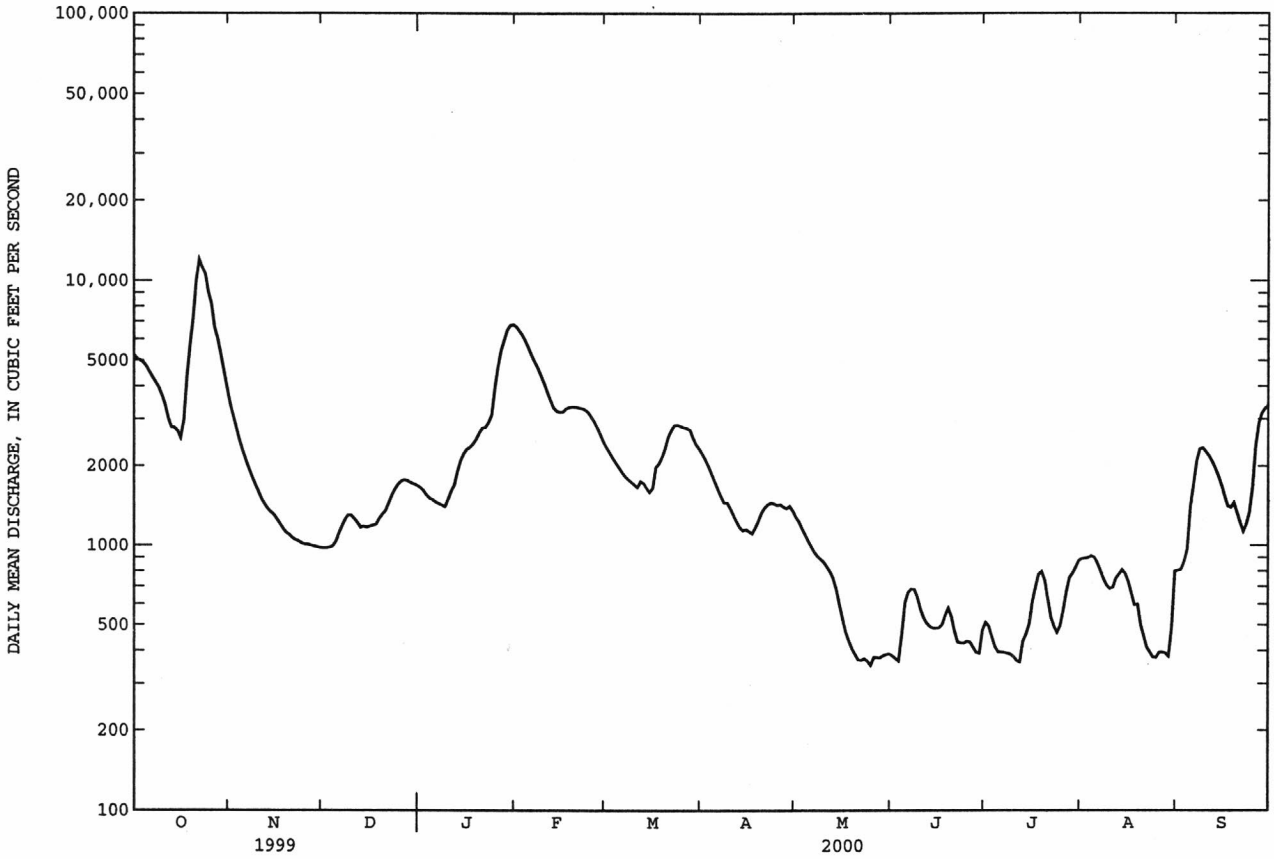
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

MEAN	896	898	1311	1899	2265	2361	1861	1000	755	798	931	1076
MAX	5496	4142	3977	4575	5944	5259	5688	3430	2587	2808	3741	4930
(WY)	2000	1948	1949	1993	1998	1983	1936	1978	1969	1943	1974	1999
MIN	141	211	237	262	429	611	420	276	215	174	138	92.2
(WY)	1941	1934	1934	1934	1934	1934	1981	1986	1941	1990	1954	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000	
ANNUAL TOTAL	680365		698655			
ANNUAL MEAN	1864		1909		1333	
HIGHEST ANNUAL MEAN					2391	1965
LOWEST ANNUAL MEAN					524	1934
HIGHEST DAILY MEAN	13000	Sep 19	12000	Oct 22	13400	Sep 24 1945
LOWEST DAILY MEAN	123	Aug 14	352	May 25	68	Oct 1 1968
ANNUAL SEVEN-DAY MINIMUM	149	Aug 9	369	May 21	72	Oct 3 1968
INSTANTANEOUS PEAK FLOW			13200	Oct 22	13400*	Sep 24 1945
INSTANTANEOUS PEAK STAGE			10.66	Oct 22	10.70	Sep 19 1999
INSTANTANEOUS LOW FLOW			344	May 25	66	Oct 9 1968
ANNUAL RUNOFF (CFSM)	1.52		1.55		1.09	
ANNUAL RUNOFF (INCHES)	20.61		21.16		14.75	
10 PERCENT EXCEEDS	4350		4080		2830	
50 PERCENT EXCEEDS	1160		1380		967	
90 PERCENT EXCEEDS	342		423		298	

e Estimated.
* See REMARKS.

02134500 LUMBER RIVER AT BOARDMAN, NC--Continued



351812080445545 CRN01

LOCATION.--Lat 35°18'20", long 80°44'55", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.28	.00
2	.00	.71	.00	.00	.01	.00	.12	.14	.00	.00	.25	.79
3	.00	.00	.00	.00	.00	.00	.16	.01	.00	.00	2.49	.99
4	.06	.00	.00	.20	.01	.16	.00	.00	.03	.00	.52	.48
5	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00
8	.00	.00	.00	.00	.00	.00	.79	.00	.00	.00	.00	.00
9	.00	.00	.00	.36	.00	.00	.04	.00	.00	.00	.00	.00
10	1.78	.00	.24	.62	.00	.00	.00	.00	.00	.00	.63	.00
11	1.45	.77	.00	.00	.00	.16	.00	.00	.00	.23	.00	.00
12	.00	.00	.00	.00	.58	.00	.00	.00	.00	.82	.00	.00
13	.45	.00	.07	.00	.17	.00	.41	.15	.00	.01	.00	.00
14	.01	.00	.50	.00	.68	.00	---	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	---	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	1.74	.01	.00	.00	.00	.00	.00
17	.00	.02	.00	.00	.09	.01	.23	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.19	.00	.00	.00	.08	.00	1.17	1.13
19	.02	.00	.00	---	.00	.00	.00	.00	.00	.32	.00	.14
20	.64	.00	.13	---	.00	1.19	.00	.00	.00	.00	.00	.00
21	.00	.00	.33	---	.00	.00	.00	.00	.00	.00	.00	.04
22	.00	.00	.00	---	.00	.01	.00	.00	.00	.00	.00	1.05
23	.00	.00	.00	---	.00	.00	.00	.00	.00	---	.00	1.97
24	.00	.00	.00	---	.00	.00	.38	.03	.00	---	.14	.00
25	.00	.00	.00	---	.00	.00	.20	.00	.00	---	.01	.65
26	.00	.76	.00	---	.00	.00	.00	.00	.00	---	.00	.00
27	.00	.00	.00	---	.35	.31	.00	.00	.00	---	.00	.00
28	.00	.00	.00	---	.00	.01	.46	.00	1.35	---	.00	.00
29	.00	.00	.00	---	.00	.04	.01	.04	.11	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	4.41	2.26	1.27	2.19	2.08	3.63	---	0.37	1.87	---	6.49	7.24

351540080430045 CRN16

LOCATION.--Lat 35°15'40", long 80°43'00", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.02	.00	.00	.00	.00	.02	1.58	.15
2	.00	.71	.00	.00	.00	.00	.18	.12	.00	.00	.43	1.29
3	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.93	.05
4	.10	.00	.00	.23	.00	.24	.02	.00	.06	.02	.54	.79
5	.00	.00	.00	.00	.00	.00	.00	.00	.36	.02	.00	.33
6	.00	.00	.03	.00	.00	.00	.00	.00	.01	.10	.00	.01
7	.00	.00	.00	.01	.00	.00	.00	.00	.00	.34	.00	.02
8	.00	.00	.00	.03	.00	.00	.82	.00	.00	.02	.00	.00
9	.00	.00	.00	.36	.00	.00	.00	.00	.00	.01	.00	.00
10	2.00	.00	.25	.79	.00	.00	.00	.00	.00	.02	.79	.00
11	1.84	.83	.00	.00	.01	.18	.00	.00	.00	.21	.00	.10
12	.00	.00	.00	.00	.97	.00	.00	.00	.00	1.05	.00	.10
13	.78	.00	.11	.00	.20	.00	.65	.26	.00	.04	.00	.00
14	.00	.00	.62	.00	.71	.00	.50	.00	.36	.11	.00	.00
15	.01	.00	.00	.00	.00	.00	.73	.00	.01	.00	.00	.00
16	.00	.00	.00	.00	.00	.73	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.14	.00	.16	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.24	.00	.01	.00	.14	.00	.96	1.29
19	.21	.00	.06	---	.00	.00	.00	.00	.01	.14	.00	.15
20	.62	.00	.11	---	.00	1.27	.00	.00	.00	.01	.00	.00
21	.01	.00	.40	---	.00	.00	.00	.08	.00	.02	.00	.08
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	1.50
23	.00	.00	.00	---	.00	.00	.00	.06	.00	.26	.00	2.66
24	.00	.00	.00	---	.00	.00	.51	.09	.00	.05	.42	.00
25	.00	.00	.00	---	.00	.00	.17	.02	.00	.11	.02	.69
26	.00	.71	.00	---	.00	.00	.00	.00	.00	.07	.00	.00
27	.00	.00	.00	---	.47	.60	.00	.00	.02	.00	.00	.00
28	.00	.00	.00	---	.01	.00	.52	.09	.43	.01	.00	.00
29	.00	.00	.00	---	.00	.00	.01	.04	.16	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.19	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.04	.15	---
TOTAL	5.57	2.25	1.59	2.88	2.77	3.03	4.48	0.76	1.56	2.67	6.01	9.21

351302080412701 CRN23

LOCATION.--Lat 35°13'02", long 80°41'27", Mecklenburg County, Hydrologic Unit 03040105, Harrisburg Road Landfill, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	1.00	.24
2	.00	.70	.00	.00	.00	.00	.12	.09	.00	.00	.07	.66
3	.00	.00	.00	.00	.00	.00	.13	.01	.00	.00	.45	.07
4	.12	.00	.00	.12	.00	.19	.00	.00	.21	.00	.33	.62
5	.00	.00	.00	.00	.00	.00	.00	.00	.48	.00	.00	.00
6	.00	.00	.03	.00	.00	.01	.00	.00	.00	.06	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.01
8	.00	.00	.00	.00	.00	.00	.73	.00	.00	.16	.00	.00
9	.00	.00	.00	.32	.00	.00	.00	.00	.00	.00	.01	.00
10	2.17	.00	.22	.76	.00	.00	.01	.01	.00	.02	.60	.00
11	1.85	.39	.00	.00	.02	.18	.00	.00	.00	.15	.00	.00
12	.00	.00	.00	.00	.84	.00	.00	.00	.00	1.24	.00	.00
13	.61	.00	.14	.00	.16	.00	.80	.17	.00	.01	.00	.00
14	.00	.00	.57	.00	.76	.00	.33	.00	.10	1.18	.00	.00
15	.00	.00	.00	.00	.00	.00	.63	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.15	.00	.01	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.17	.00	.00	.00	.04	.00	.35	.95
19	.24	.00	.07	---	.00	.00	.00	.00	.00	.19	.00	.06
20	.68	.00	.08	---	.00	1.10	.00	.00	.00	.00	.00	.00
21	.00	.02	.29	---	.00	.00	.00	.39	.00	.01	.00	.00
22	.00	.01	.01	---	.00	.00	.00	.01	.00	.00	.00	.82
23	.00	.01	.00	---	.00	.00	.00	.01	.00	.75	.00	1.78
24	.00	.00	.00	---	.00	.00	.43	.06	.00	.04	.25	.01
25	.00	.00	.00	---	.00	.00	.38	.01	.00	.05	.04	.78
26	.00	.74	.05	---	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	---	.29	.33	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.26	.01	.63	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.01	.38	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	5.67	1.87	1.46	2.98	2.39	2.10	3.83	0.78	1.85	4.17	3.10	6.00

352432080473745 CRN26

LOCATION.--Lat 35°24'32", long 80°47'37", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.02
2	.00	.43	.00	.00	.01	.00	.17	.54	.00	.00	.03	.63
3	.00	.00	.00	.00	.00	.00	.24	.04	---	.00	1.33	.07
4	.34	.00	.00	.35	.00	.06	.03	.00	---	.05	.51	.59
5	.00	.00	.04	.00	.00	.00	.00	.00	---	.03	.00	.00
6	.00	.00	.12	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.05	.00	.00
8	.00	.00	.00	.04	.00	.00	.40	.00	.00	.00	.00	.00
9	.00	.00	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00
10	1.67	.00	.33	.68	.00	.00	.00	.00	.00	.00	.38	.00
11	1.56	.64	.00	.00	.00	.12	.00	.00	.00	.38	.00	.00
12	.00	.00	.00	.00	1.26	.00	.00	.00	.00	.42	.00	.00
13	.21	.00	.17	.00	.23	.00	.23	---	.00	.44	.03	.00
14	.00	.00	.34	.00	.51	.00	.39	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.75	.00	.24	.00	.00	.00
16	.00	.00	.00	.00	.00	1.77	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.10	.00	---	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.09	.00	.00	.00	.13	.00	.21	1.05
19	.05	.00	.11	---	.00	.00	.00	.00	.00	.06	.00	.13
20	.54	.00	.06	---	.00	1.34	.00	.00	.00	.00	.00	.00
21	.00	.02	.59	---	.00	.00	.00	---	.00	.10	.00	.02
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00	.96
23	.00	.00	.00	---	.00	.00	.00	---	.00	.15	.00	1.22
24	.00	.00	.00	---	.00	.00	---	---	.00	.05	.08	.00
25	.00	.02	.00	---	.00	.00	---	---	.83	.34	.00	.31
26	.00	.71	.00	---	.00	.00	.02	.00	.03	.00	.00	.01
27	.00	.00	.00	---	.30	.65	.00	.00	.02	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.43	---	.41	.00	.00	.00
29	.00	.00	.00	---	.00	.01	.18	---	.18	.00	.00	.00
30	.00	.00	.00	---	---	.02	.00	.00	.00	.00	.11	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.24	.08	---
TOTAL	4.37	1.83	1.76	2.69	2.50	3.98	---	---	---	3.31	2.99	5.01

351218080331345 CRN29

LOCATION.--Lat 35°12'18", long 80°33'13", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.64	1.92
2	.00	.21	.00	.00	.00	.00	.12	.02	.00	.00	.05	1.35
3	.00	.00	.00	.00	.01	.00	.03	.00	.00	.00	.19	.01
4	.20	.00	.00	---	.00	.21	.02	.00	.44	.00	.19	.34
5	.00	.00	.00	.00	.00	.00	.00	.00	1.68	.02	.00	.01
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.03	.00	.01
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.03
8	.00	.00	.00	.01	.00	.00	.69	.00	.00	.16	.00	.00
9	.00	.00	.00	.26	.00	.00	.00	.00	.00	.01	.00	.00
10	2.13	.00	.24	.97	.00	.00	.00	.00	.00	.00	.34	.00
11	1.93	1.07	.00	.00	.04	.23	.00	.00	.00	1.99	.00	.00
12	.00	.00	.00	.00	.93	.00	.00	.00	.00	.37	.00	.00
13	.62	.00	.12	.00	.13	.00	.63	.07	.00	.07	.00	.00
14	.00	.00	.54	.00	.61	.00	.36	.00	.15	.65	.00	.00
15	.00	.00	.00	.00	.00	.00	.35	.00	.00	.01	.00	.00
16	.00	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00
17	.13	.00	.00	.00	.09	.00	.23	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.21	.00	.01	.00	---	.00	---	.86
19	.21	.00	.17	---	.01	.00	.00	.00	.00	.26	.00	.09
20	.60	.00	.08	---	.00	1.20	.00	.00	.03	.00	.00	.00
21	.00	.03	.23	---	.00	.00	.00	.23	.00	.00	.00	.00
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.82
23	.00	.00	.00	---	.00	.00	.00	.02	.00	1.14	.00	1.52
24	.00	.01	.00	---	.00	.00	.71	.06	.00	.06	---	.00
25	.00	.05	.00	---	.00	.00	.12	.05	.00	.00	---	.40
26	.00	.59	.00	---	.00	.00	.02	.00	.00	.01	.00	.00
27	.00	.00	.00	---	.08	.42	.00	.00	.03	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.51	.10	.30	.00	.00	.00
29	.00	.00	.01	---	.00	.00	.26	.01	.28	.00	.00	.00
30	.00	.00	.00	---	---	.02	.00	.00	.00	.00	.21	.00
31	.00	---	.00	.00	---	.02	---	.00	---	.04	.00	---
TOTAL	5.82	1.96	1.41	---	2.11	2.52	4.06	0.56	---	5.08	---	7.36

351455080374445 CRN30

LOCATION.--Lat 35°14'55", long 80°37'44", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.64	.78
2	.00	.51	.00	.00	.01	.00	.16	.04	.00	.00	.04	.53
3	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.63	.07
4	.15	.00	.00	.16	.00	.11	.02	.00	.11	.00	.37	1.58
5	.00	.00	.02	.00	.00	.01	.00	.00	.50	.01	.00	.00
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.01	.00	.01
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.03
8	.00	.00	.00	.05	.00	.00	.85	.00	.00	.16	.01	.00
9	.00	.00	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00
10	1.99	.00	.22	.83	.00	.00	.00	.00	.00	.00	1.13	.00
11	1.96	.92	.00	.00	.01	.17	.00	.00	.00	.39	.00	.00
12	.00	.01	.00	.00	1.05	.01	.00	.00	.00	1.03	.00	.00
13	.83	.00	.14	.00	.16	.00	.89	.12	.00	.11	.00	.00
14	.00	.00	.52	.00	.67	.00	.42	.00	.16	.05	.00	.00
15	.00	.00	.00	.00	.00	.00	.58	.00	.06	.01	.00	.00
16	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00
17	.02	.00	.00	.00	.18	.00	.00	.00	.11	.00	.00	---
18	.00	.00	.00	---	.14	.00	.01	.00	.09	.00	1.03	---
19	.30	.00	.11	---	.00	.00	.00	.00	.00	.11	.01	---
20	.68	.00	.10	---	.00	1.07	.00	.00	.01	.00	.00	.00
21	.00	.08	.29	---	.00	.00	.00	.65	.00	.02	.00	---
22	.01	.01	.01	---	.00	.00	.00	.01	.00	.00	.00	---
23	.00	.00	.00	---	.00	.00	.00	.01	.00	1.14	.00	---
24	.00	.01	.00	---	.00	.00	.46	.11	.00	.11	.18	.00
25	.00	.00	.00	---	.00	.00	.14	.02	.00	.05	.07	.58
26	.00	.85	.00	---	.00	.00	.02	.00	.00	.01	.00	.00
27	.00	.00	.00	---	.16	.42	.00	.00	.23	.00	.00	.00
28	.00	.00	.00	---	.00	.01	.57	.10	.45	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.19	.03	.20	.01	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.18	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.17	---
TOTAL	5.94	2.39	1.43	2.72	2.38	2.10	4.39	1.09	1.92	3.71	4.46	---

351028080385545 CRN32

LOCATION.--Lat 35°10'28", long 80°38'55", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	1.17	1.97
2	.00	.48	.00	.00	.00	.00	.16	.04	.00	.00	.07	.59
3	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.61	.13
4	.20	.00	.00	.18	.00	.33	.02	.00	.68	.00	.19	.07
5	.00	.00	.01	.00	.00	.00	.00	.00	1.92	.01	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.05	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00
8	.00	.00	.00	.00	.00	.00	.68	.00	.00	.43	.00	.00
9	.00	.00	.00	.28	.00	.00	.00	.00	.00	.03	.00	.00
10	2.52	.00	.28	.86	.00	.00	.00	.05	.00	.00	.42	.00
11	1.86	.25	.00	.00	.11	.19	.00	.00	.00	.99	.00	.00
12	.00	.00	.00	.00	.94	.00	.00	.00	.00	.48	.00	.00
13	.51	.01	.10	.00	.18	.00	.67	.46	.00	.02	.00	.00
14	.00	.00	.52	.00	.73	.00	.37	.00	.00	.46	.00	.00
15	.00	.00	.00	.00	.00	.00	.39	.00	.01	.00	.00	.00
16	.00	.00	.00	.00	.00	.46	.00	.00	.00	.00	.00	.00
17	.02	.00	.00	.00	.13	.01	.23	.00	.00	.00	.00	.01
18	.00	.00	.00	---	.21	.00	.01	.00	.15	.00	.02	1.11
19	.26	.00	.19	---	.00	.00	.00	.01	.00	.72	.00	.09
20	.81	.00	.06	---	.00	1.21	.00	.00	.00	.01	.00	.00
21	.00	.02	.25	---	.00	.00	.00	.44	.00	.00	.00	.09
22	.00	.01	.01	---	.00	.00	.00	.01	.00	.00	.00	.93
23	.00	.01	.00	---	.00	.00	.00	.02	.00	.45	.00	1.49
24	.00	.00	.00	---	.00	.00	.80	.08	.00	.06	.26	.00
25	.00	.00	.00	---	.00	.00	.20	.07	.00	.02	.04	.69
26	.00	.80	.00	---	.00	.00	.00	.00	.01	.01	.00	.00
27	.00	.00	.00	---	.14	---	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.01	.00	.54	.11	.21	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.01	.01	.31	.23	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.26	.00
31	.00	---	.00	.00	---	.02	---	.00	---	.14	.07	---
TOTAL	6.18	1.58	1.43	3.22	2.45	---	4.16	1.30	3.30	4.87	3.11	7.17

352000080414645 CRN33

LOCATION.--Lat 35°20'00", long 80°41'46", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.15	.26
2	.00	.68	.00	.00	.00	.00	.23	.03	.00	.00	.13	.89
3	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00	.80	1.22
4	.15	.00	.00	.30	.00	.07	.02	.00	.06	.05	1.07	.72
5	.00	.00	.00	.00	.00	.00	.00	.00	.40	.01	.00	.04
6	.00	.00	.06	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.01	.00	.00	.00	.00	.00	.13	.00	.00
8	.00	.00	.00	.06	.00	.00	.72	.00	.00	.00	.00	.00
9	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	.00	.00
10	1.80	.00	.27	.70	.00	.00	.00	.13	.00	.00	.47	.00
11	1.32	.98	.00	.00	.00	.12	.00	.00	.00	.25	.00	.00
12	.00	.01	.00	.00	.69	.00	.00	.00	.00	.64	.00	.00
13	.56	.00	.12	.00	.17	.00	.35	.23	.00	.00	.00	.00
14	.00	.00	.44	.00	.63	.00	.45	.00	.00	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.57	.00	.04	.01	.00	.00
16	.00	.00	.00	.00	.00	1.59	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.15	.00	.34	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.15	.00	.00	.00	.03	.00	.49	.86
19	.14	.00	.09	---	.00	.00	.00	.00	.00	.30	.00	.12
20	.62	.00	.08	---	.00	1.12	.00	.00	.00	.01	.00	.00
21	.00	.05	.38	---	.00	.00	.00	.04	.00	.00	.00	.02
22	.00	.01	.00	---	.00	.00	.00	.00	.16	.00	.00	1.50
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.21	.00	1.65
24	.00	.00	.00	---	.00	.00	.42	.05	.00	.06	.07	.01
25	.00	.00	.00	---	.00	.00	.13	.02	.00	.22	.03	.56
26	.00	.80	.00	---	.00	.00	.02	.00	.00	.00	.00	.00
27	.00	.00	.00	---	.33	.44	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.52	.02	1.21	.01	.00	.00
29	.00	.00	.00	---	.00	.00	.07	.04	.10	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.11	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.02	---
TOTAL	4.59	2.53	1.44	2.77	2.12	3.35	4.03	0.60	2.01	1.92	4.34	7.85

352921080473245 CRN36

LOCATION.--Lat 35°29'21", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.02	.00	.00	.00	.00	.40	.35	.19
2	.00	.44	.00	.00	.00	.00	.17	.68	.00	.37	.05	.48
3	.00	.00	.00	.00	.00	.00	.27	.00	.00	.00	1.79	1.16
4	.51	.00	.00	.36	.00	.05	.05	.00	.02	.25	.30	.42
5	.00	.00	.00	.00	.00	.00	.00	.00	.29	.11	.00	.00
6	.00	.00	.56	.00	.00	.00	.00	.00	.00	.00	.01	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.74	.00	.01
8	.00	.00	.00	.04	.00	.00	.54	.00	.00	.00	.00	.00
9	.00	.00	.00	.64	.00	.00	.00	.00	.00	.00	.00	.00
10	1.21	.00	.33	.77	.00	.00	.00	.04	.00	.00	.53	.00
11	1.97	.07	.00	.00	.00	.44	.00	.00	.00	.56	.00	.00
12	.00	.01	.00	.00	.90	.01	.00	.00	.00	.09	.00	.00
13	.15	.00	.08	.00	.20	.00	.19	.36	.00	.24	.01	.00
14	.01	.00	.61	.00	.49	.00	.30	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.63	.00	.16	.08	.00	.00
16	.00	.00	.00	.00	.00	1.47	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.09	.01	.18	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.12	.00	.00	.00	.07	.00	.16	.99
19	.05	.00	.10	---	.00	.00	.00	.00	.00	.43	.01	.17
20	.46	.00	.11	---	.00	1.37	.00	.00	.00	.00	.00	.00
21	.00	.05	.82	---	.00	.00	.00	.29	.00	.00	.00	.04
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00	.55
23	.00	.00	.00	---	.00	.00	.00	.06	.00	.11	.00	.46
24	.00	.00	.00	---	.00	.00	.41	.60	.00	.05	.19	.01
25	.00	.03	.00	---	.00	.00	.07	.03	.00	.21	.00	.53
26	.00	.80	.00	---	.00	.00	.06	.00	.03	.00	.00	.01
27	.00	.00	.00	---	.31	.40	.01	.00	.06	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.54	.28	.20	1.57	.00	.00
29	.00	.00	.00	---	.00	.04	.19	.06	.17	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.02	.00	.12	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.34	.02	---
TOTAL	4.36	1.41	2.61	2.89	2.13	3.79	3.61	2.40	1.02	5.55	3.54	5.02

350634080405245 CRN39

LOCATION.--Lat 35°06'34", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.53	1.19
2	.00	.53	.00	.00	.00	.00	.14	.21	.00	.00	.14	.35
3	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.42
4	.19	.00	.00	.16	.00	.02	.01	.00	1.43	.00	.13	.04
5	.00	.00	.00	.00	.00	.00	.00	.00	2.20	.00	.00	.01
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00
8	.00	.00	.00	.00	.00	.00	.66	.00	.00	.04	.00	.00
9	.00	.00	.00	.27	.00	.00	.00	.00	.00	.61	.00	.00
10	2.59	.00	.17	.73	.00	.00	.00	.13	.00	.00	.30	.00
11	1.24	1.00	.00	.00	.12	---	.00	.00	.00	.64	.00	.00
12	.00	.00	.00	.00	1.42	.00	.00	.00	.00	.38	.00	.00
13	.46	.01	.12	00	.18	.00	.30	.11	.00	.01	.00	.00
14	.00	.00	.48	.00	.76	.00	.31	.00	.19	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.34	.00	.01	.00	.00	.00
16	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00
17	.02	.00	.00	.00	.14	.00	.36	.00	.00	.00	.00	.01
18	.00	.00	.00	---	.17	.00	.01	.00	.01	.00	.01	.98
19	.16	.00	.19	---	.00	.00	.00	.00	.00	.73	.00	.09
20	.62	.00	.08	---	.00	1.18	.00	.00	.00	.01	.00	.00
21	.01	.05	.25	---	.00	.00	.00	.20	.00	.05	.00	.25
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.12	.00	.90
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.45	.00	1.30
24	.00	.00	.00	---	.00	.00	.46	.06	.00	.02	.08	.00
25	.00	.00	.00	---	.00	.00	.18	.14	.00	.01	.16	.59
26	.00	.19	.00	---	.00	.00	.02	.00	.22	.01	.00	.00
27	.00	.00	.00	---	.15	.42	.00	.00	.16	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.32	.09	.76	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.01	.29	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.43	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.17	.04	---
TOTAL	5.29	1.79	1.30	2.79	2.94	---	3.12	0.99	5.27	3.42	1.83	6.13

352718080484345 CRN44

LOCATION.--Lat 35°27'18", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.29
2	.00	.40	.00	.00	.00	.00	.14	2.32	.00	.00	.04	.98
3	.00	.00	.00	.00	.00	.00	.05	.00	.03	.00	3.80	.22
4	.47	.00	.00	.28	.00	.03	.02	.00	.04	.15	.10	.86
5	.00	.00	.01	.00	.00	.00	.00	.00	.34	.04	.00	.00
6	.00	.00	.47	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.41	.00	.00
8	.00	.00	.00	.04	.00	.00	.24	.00	.00	.00	.00	.00
9	.00	.00	.00	.59	.00	.00	.00	.00	.00	.00	.00	.00
10	1.27	.00	.34	.82	.00	.00	.00	.08	.00	.00	.76	.00
11	1.67	1.54	.00	.00	.00	.40	.00	.00	.00	.83	.00	.00
12	.00	.00	.00	.00	3.23	.01	.00	.00	.00	.77	.00	.00
13	.09	.00	.08	.00	.23	.00	.21	1.32	.00	.34	.00	.00
14	.00	.00	.56	.00	.50	.00	.32	.00	.00	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.56	.00	.08	.00	.00	.00
16	.00	.00	.00	.00	.00	1.17	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.10	.00	.46	.00	.01	.00	.00	.00
18	.00	.00	.00	---	.13	.00	.00	.00	.10	.00	.33	1.11
19	.04	.00	.10	---	.00	.00	.00	.00	.01	.51	.00	.18
20	.49	.00	.10	---	.00	1.27	.00	.00	.00	.80	.00	.00
21	.00	.04	.76	---	.00	.00	.00	.35	.00	.00	.00	.03
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.39	.00	.62
23	.00	.01	.00	---	.00	.00	.00	.08	.00	.16	.00	.75
24	.00	.00	.00	---	.00	.00	.45	.60	.00	.83	.21	.00
25	.00	.02	.00	---	.00	.00	.13	.01	.00	1.20	.00	.37
26	.00	.77	.01	---	.00	.00	.04	.00	.04	.40	.00	.00
27	.00	.00	.00	---	.28	1.74	.00	.00	.03	.80	.00	.00
28	.00	.00	.00	---	.00	.00	.48	.15	.23	.12	.00	.00
29	.00	.00	.00	---	.00	.01	.99	.07	.23	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.22	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.62	.02	---
TOTAL	4.03	2.78	2.43	2.81	4.47	4.64	4.09	4.98	1.14	11.38	5.60	5.41

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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	.07
2	.00	.56	.00	.00	.00	.00	.28	.24	.00	.00	.03	1.59
3	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	1.80	1.10
4	.22	.00	.00	.32	.00	.21	.01	.00	.12	.04	1.58	.54
5	.00	.00	.00	.00	.00	.00	.00	.00	.31	.01	.00	.00
6	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.00	.00
8	.00	.00	.00	.06	.00	.00	.68	.00	.00	.00	.02	.00
9	.00	.00	.00	.45	.00	.00	.00	.00	.00	.00	.00	.00
10	1.93	.00	.30	.87	.00	.00	.00	.03	.00	.00	.76	.00
11	1.49	.71	.00	.00	.00	.30	.00	.00	.00	1.00	.00	.00
12	.00	.00	.00	.00	1.18	.00	.00	.00	.00	1.01	.00	.00
13	.22	.00	.10	.00	.22	.00	.37	.44	.00	.12	.00	.00
14	.01	.00	.39	.00	.66	.00	.44	.00	.00	.12	.00	.00
15	.00	.00	.00	.00	.00	.00	.65	.00	.12	.00	.00	.00
16	.00	.00	.00	.00	.00	2.19	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.16	.00	.29	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.14	.00	.00	.00	.07	.00	.38	1.07
19	.07	.00	.09	---	.00	.00	.00	.00	.00	.35	.00	.13
20	.59	.00	.07	---	.00	1.33	.00	.00	.00	.00	.00	.00
21	.01	.02	.50	---	.00	.00	.00	---	.00	.00	.00	.04
22	.00	.01	.01	---	.00	.00	.00	.00	.00	.00	.00	1.67
23	.00	.00	.00	---	.00	.00	.00	---	.00	.18	.00	1.48
24	.00	.00	.00	---	.00	.00	.47	---	.00	.05	.09	.00
25	.00	.02	.00	---	.00	.00	.36	---	1.31	.52	.02	.15
26	.00	.92	.01	---	.00	.00	.02	.00	.07	.01	.00	.00
27	.00	.00	.00	---	.33	.51	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	---	.01	.00	.33	.03	.25	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.09	.07	.07	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.17	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.21	.06	---
TOTAL	4.54	2.24	1.55	2.96	2.70	4.55	4.25	---	2.32	4.39	5.26	7.84

354822080521501 STATESVILLE - PRECIPITATION

LOCATION.--Lat 35°48'22", long 80°52'15", 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.--Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.01	.55
2	.00	.89	.00	.00	.00	.00	.09	.04	.00	.00	.00	.69
3	.00	.00	.00	.00	.00	.00	.86	.00	.00	.00	.04	.16
4	.45	.00	.00	.65	.00	.00	.08	.00	.03	.07	.29	.52
5	.01	.00	.05	.00	.00	.00	.00	.00	.67	.07	.00	.02
6	.00	.00	.58	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.87	.00	.00
8	.00	.00	.00	.00	.00	.00	.29	.00	.00	.00	.00	.00
9	.02	.00	.00	.61	.00	.00	.00	.00	.00	.00	.00	.00
10	.61	.00	.18	.92	.00	.00	.00	.00	.00	.00	.57	.00
11	.85	.05	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.89	.00	.00	.00	.00	.01	.00	.00
13	.14	.00	.37	.00	.11	.00	.24	.00	.00	.02	.00	.00
14	.00	.00	.32	.00	.50	.00	.46	.00	.00	.77	.00	.00
15	.00	.00	.00	.00	.00	.00	.39	.00	.91	.04	.00	.00
16	.00	.00	.00	.00	.00	.99	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.81	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.17	.00	.00	.00	.00	.00	.00	.62
19	.00	.00	.02	.01	.00	.00	.00	.00	.00	.00	.00	1.15
20	.83	.00	.12	.68	.00	1.70	.00	.37	.00	.00	.00	.00
21	.01	.04	.58	.00	.00	.00	.06	.30	.08	.00	.00	.08
22	.00	.01	.01	.00	.00	.00	.00	.00	.00	.45	.00	.11
23	.00	.00	.00	.00	.00	.00	.00	.06	.00	.02	.00	.67
24	.00	.00	.00	.03	.00	.00	.69	.07	.00	.22	.00	.00
25	.00	.10	.01	.13	.00	.07	.24	.32	.00	.07	.34	.10
26	.00	.56	.00	.00	.00	.00	.01	.00	.12	.01	.01	.00
27	.00	.00	.00	.00	.39	.03	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.03	.01	.00	.87	.15	.21	.00	.04	.00
29	.00	.00	.00	.00	.00	.04	.03	.12	.05	.00	.00	.00
30	.00	.00	.00	.26	---	.01	.00	.00	.00	.00	.09	.00
31	.01	---	.00	.00	---	.00	---	.00	---	.00	.19	---
TOTAL	2.93	1.67	2.24	3.32	2.07	3.14	5.12	1.43	2.07	3.62	1.58	4.67

USGS hydrographer making a wading discharge measurement.

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC

LOCATION.--Lat 35°41'09", long 82°03'40", McDowell County, Hydrologic Unit 03050101, on right bank 18 ft downstream of bridge on Secondary Road 1221, 0.8 mi upstream from Buck Creek, 0.8 mi southeast of Pleasant Gardens, and at mile 297.

DRAINAGE AREA.--126 mi^2.

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 sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for current water year also occurred Oct. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	62	139	100	104	118	144	224	101	84	225	79
2	48	795	129	99	103	116	163	209	99	76	414	99
3	45	252	121	99	105	112	395	195	119	73	329	82
4	71	153	116	103	110	111	536	222	105	69	283	93
5	84	122	111	100	107	108	367	191	101	66	208	85
6	58	108	116	94	103	105	293	178	101	69	153	79
7	53	100	107	93	105	104	251	170	90	72	141	73
8	50	95	102	92	107	102	229	164	87	76	138	71
9	50	91	102	114	109	101	207	158	85	67	118	68
10	80	87	112	419	113	100	191	150	83	60	104	64
11	112	92	109	249	121	153	181	144	81	56	96	61
12	79	89	100	175	408	150	174	139	80	65	88	60
13	70	84	111	153	363	121	180	138	80	80	83	58
14	71	81	377	134	599	115	185	160	91	73	80	57
15	61	79	219	123	391	111	421	125	90	70	77	54
16	57	77	174	119	283	138	746	120	88	59	73	50
17	55	75	152	115	232	162	508	118	85	54	72	49
18	54	74	140	134	205	131	421	115	86	52	71	52
19	53	74	131	129	193	125	337	110	83	52	73	67
20	89	75	140	141	172	1860	291	126	109	56	76	56
21	102	80	135	126	160	656	263	152	153	53	109	62
22	73	81	143	121	152	390	239	167	110	50	83	65
23	66	76	128	123	144	299	222	119	92	226	75	108
24	60	76	122	116	140	252	214	149	81	225	72	76
25	58	174	117	112	135	223	275	150	88	136	71	66
26	58	1130	113	e110	130	202	256	128	100	107	67	72
27	57	357	111	e106	134	190	227	116	131	209	65	62
28	56	229	108	e104	134	181	298	111	120	122	65	59
29	56	180	106	101	122	165	285	109	135	107	62	56
30	54	155	104	110	---	159	246	105	103	205	61	56
31	54	---	102	109	---	152	---	103	---	250	81	---
TOTAL	1988	5203	4097	4023	5284	7012	8745	4565	2957	3019	3713	2039
MEAN	64.1	173	132	130	182	226	292	147	98.6	97.4	120	68.0
MAX	112	1130	377	419	599	1860	746	224	153	250	414	108
MIN	45	62	100	92	103	100	144	103	80	50	61	49
CFSM	.50	1.37	1.04	1.02	1.43	1.78	2.30	1.16	.78	.77	.94	.54
IN.	.58	1.52	1.20	1.18	1.55	2.05	2.56	1.34	.87	.88	1.09	.60

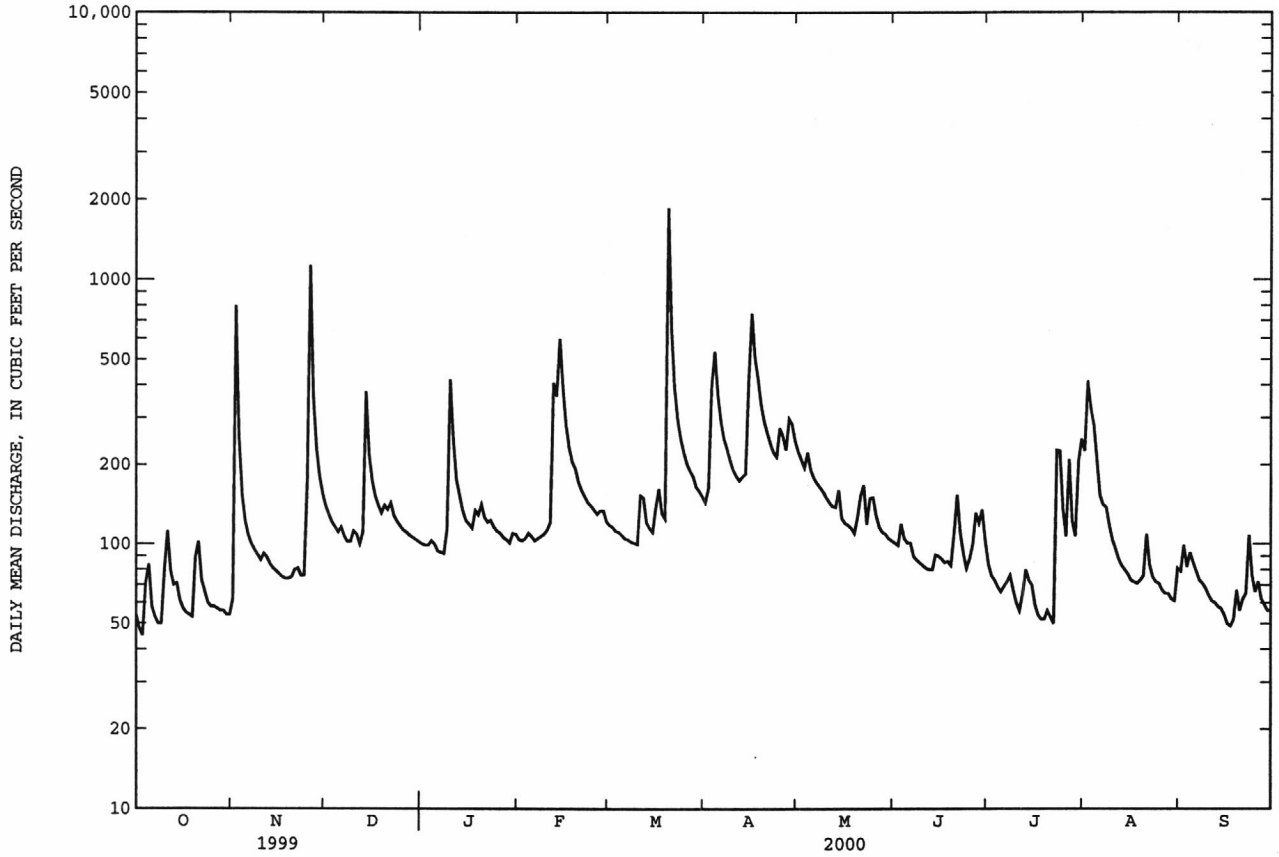
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000, BY WATER YEAR (WY)

MEAN	192	213	231	290	346	353	323	248	208	163	197	163
MAX	550	606	573	620	739	622	688	444	652	339	513	435
(WY)	1996	1986	1984	1995	1998	1990	1983	1984	1992	1991	1995	1989
MIN	64.1	69.0	77.6	107	159	130	138	109	70.7	57.9	50.5	43.3
(WY)	2000	1982	1989	1981	1988	1988	1986	1988	1988	1988	1988	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1981 - 2000	
ANNUAL TOTAL	47656		52645			
ANNUAL MEAN	131		144		243	
HIGHEST ANNUAL MEAN					351	1984
LOWEST ANNUAL MEAN					123	1999
HIGHEST DAILY MEAN	1130	Nov 26	1860	Mar 20	7250	Aug 17 1994
LOWEST DAILY MEAN	26	Sep 13	45	Oct 3	26	Sep 13 1999
ANNUAL SEVEN-DAY MINIMUM	27	Sep 12	54	Jul 16	27	Sep 12 1999
INSTANTANEOUS PEAK FLOW			3960	Mar 20	13700	Aug 17 1994
INSTANTANEOUS PEAK STAGE			7.76	Mar 20	15.22	Aug 17 1994
INSTANTANEOUS LOW FLOW			45*	Oct 3	24	Sep 16 1999
ANNUAL RUNOFF (CFSM)	1.03		1.13		1.92	
ANNUAL RUNOFF (INCHES)	13.96		15.42		26.04	
10 PERCENT EXCEEDS	209		249		422	
50 PERCENT EXCEEDS	116		109		177	
90 PERCENT EXCEEDS	47		60		81	

e Estimated.
* See REMARKS.

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC--Continued



02138500 LINVILLE RIVER NEAR NEBO, NC

LOCATION.--Lat 35°47'41", long 81°53'25", Burke County, Hydrologic Unit 03050101, in Pisgah National Forest on right bank 370 ft upstream from bridge on State Highway 126, 0.2 mi downstream of Shooks Creek, 0.5 mi upstream from Lake James, 2.0 mi northeast of Longtown, and 6.0 mi northeast of Nebo.

DRAINAGE AREA.--66.7 mi^2.

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

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

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, site and datum then in use, from rating curve extended above 6,400 ft^3/s on basis of slope area measurement of peak flow. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Aug. 29.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of about 11 ft at former site and datum; discharge, 34,600 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6	37	128	67	e54	78	94	135	54	78	126	201
2		995	120	66	e56	75	92	125	51	54	119	107
3	5	438	105	65	e54	72	133	118	48	46	124	102
4	5	182	96	66	e53	69	533	112	47	42	126	154
5	43	132	90	63	55	67	312	107	50	40	96	121
6	39	108	93	62	e52	65	214	100	52	40	75	86
7	36	97	92	59	e52	62	173	99	51	45	66	76
8	33	86	81	57	56	60	153	90	47	43	61	68
9	33	78	76	62	58	59	139	85	43	37	54	60
10	62	74	76	195	64	59	126	78	41	34	53	54
11	118	72	82	205	73	98	116	69	39	33	48	48
12	87	69	77	133	305	213	110	66	38	38	42	44
13	66	74	77	115	383	136	107	64	38	89	39	42
14	60	62	300	103	651	110	108	63	37	71	36	40
15	54	58	242	90	459	99	213	60	38	57	34	37
16	50	57	165	87	278	100	735	56	41	47	28	34
17	46	54	132	84	230	129	367	55	44	39	30	32
18	43	51	116	93	189	117	422	54	44	35	30	32
19	40	50	107	95	189	105	291	53	39	33	29	36
20	44	49	106	88	173	1640	233	53	37	35	29	35
21	48	51	113	e80	144	764	200	57	42	32	35	35
22	46	51	106	e74	129	392	173	67	42	28	34	39
23	44	52	93	e70	105	267	154	57	41	29	31	47
24	42	50	86	e67	96	208	143	100	39	56	30	42
25	40	62	e80	e66	94	172	158	190	39	62	29	46
26	39	1380	e77	e62	92	151	168	117	44	59	28	51
27	37	476	e75	e59	90	136	148	90	68	55	26	41
28	37	273	e74	e56	93	127	150	72	85	58	25	38
29	37	192	74	e54	84	114	167	67	160	62	25	34
30	37	141	e71	e53	---	108	150	63	127	54	27	32
31	36	---	70	e54	---	104	---	58	---	86	29	---
TOTAL	1504	5551	3280	2550	4411	5956	6282	2580	1566	1517	1564	1814
MEAN	48.5	185	106	82.3	152	192	209	83.2	52.2	48.9	50.5	60.5
MAX	118	1380	300	205	651	1640	735	190	160	89	126	201
MIN	33	37	70	53	52	59	92	53	37	28	25	32
CFSM	.73	2.77	1.59	1.23	2.28	2.88	3.14	1.25	.78	.73	.76	.91
IN.	.84	3.10	1.83	1.42	2.46	3.32	3.50	1.44	.87	.85	.87	1.01

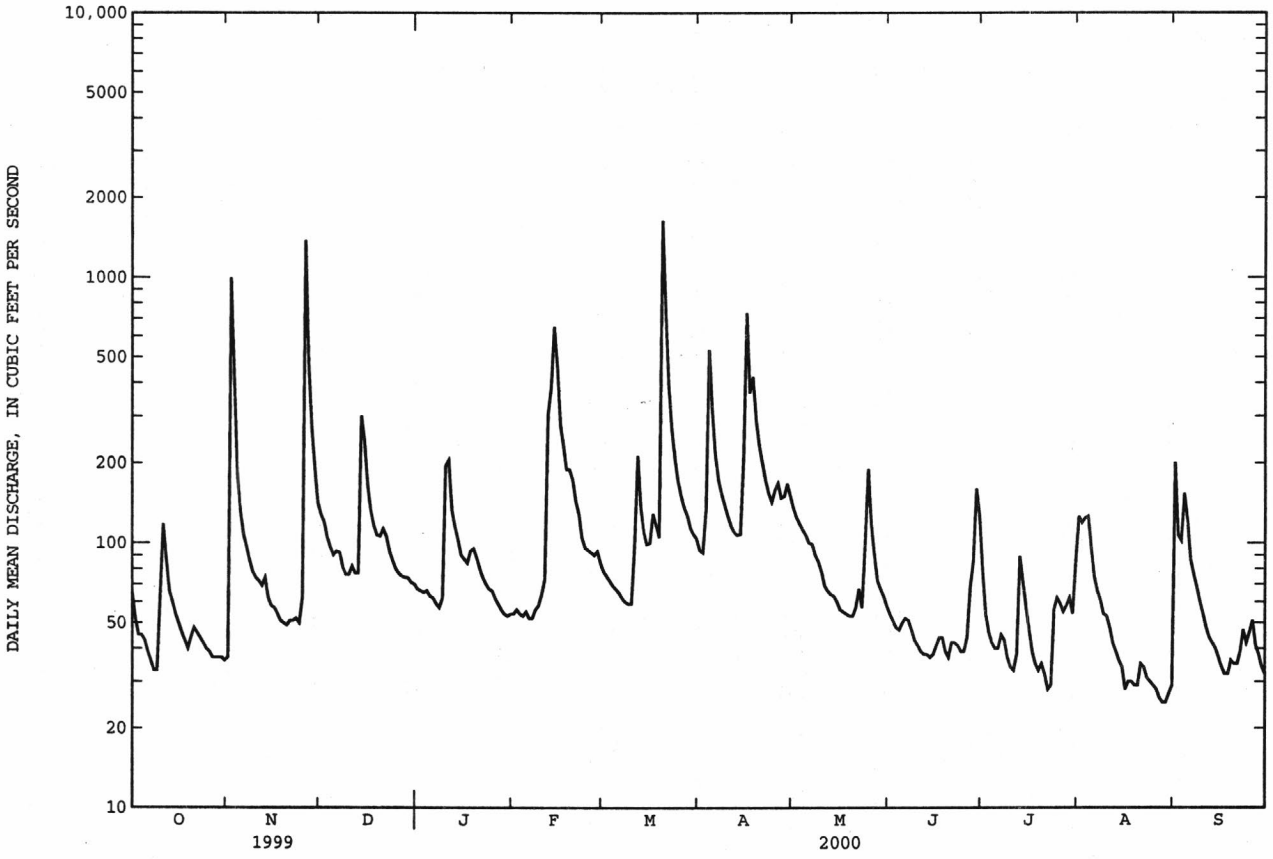
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2000, BY WATER YEAR (WY)

MEAN	124	137	138	177	194	233	201	150	129	97.2	119	111
MAX	433	678	349	664	569	632	479	369	598	449	1084	606
(WY)	1937	1978	1984	1995	1998	1979	1983	1976	1972	1989	1940	1979
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1922 - 2000	
ANNUAL TOTAL	36611		38575			
ANNUAL MEAN	100		105		151	
HIGHEST ANNUAL MEAN					246	1979
LOWEST ANNUAL MEAN					77.6	1988
HIGHEST DAILY MEAN	1380	Nov 26	1640	Mar 20	14000	Aug 13 1940
LOWEST DAILY MEAN	18	Sep 18	25	Aug 28	8.0	Sep 7 1925
ANNUAL SEVEN-DAY MINIMUM	19	Sep 18	27	Aug 25	10	Aug 22 1925
INSTANTANEOUS PEAK FLOW			3750	Mar 20	39500*	Aug 13 1940
INSTANTANEOUS PEAK STAGE			4.86	Mar 20	11.40	Aug 13 1940
INSTANTANEOUS LOW FLOW			24*	Aug 28	2.0*	Jan 9 1956
ANNUAL RUNOFF (CFSM)	1.50		1.58		2.26	
ANNUAL RUNOFF (INCHES)	20.42		21.51		30.69	
10 PERCENT EXCEEDS	164		184		267	
50 PERCENT EXCEEDS	76		66		99	
90 PERCENT EXCEEDS	30		36		38	

e Estimated.
* See REMARKS.



0213903612 CATAWBA RIVER AT CALVIN, NC

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

DRAINAGE AREA.--508 mi^2.

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

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

REMARKS.--No estimated daily discharges. Records good. City of Morganton diverted about 13.9 ft^3/s from Catawba River for municipal water supply. Considerable regulation, at times, caused by Lake James (station 02138519), 6.5 mi upstream. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	199	575	374	629	797	605	1100	1000	289	519	614
2	348	358	777	271	467	956	560	999	763	307	424	595
3	265	472	340	719	543	1030	1050	539	318	295	467	320
4	259	408	293	641	312	484	1920	604	332	419	643	787
5	237	378	302	714	312	289	1660	457	477	360	350	295
6	319	287	739	679	270	475	1120	348	507	523	557	281
7	280	242	739	285	382	374	1070	294	518	497	533	266
8	316	225	577	552	376	284	903	757	510	360	764	272
9	262	259	614	546	483	401	883	1010	834	364	959	256
10	278	254	406	578	569	563	1220	690	289	584	654	231
11	316	367	403	704	287	528	1270	624	280	486	535	521
12	224	291	299	388	340	335	471	842	895	497	336	501
13	190	235	813	376	428	433	694	333	698	581	300	248
14	237	240	1020	632	740	661	566	395	812	335	562	217
15	202	298	846	434	1180	628	358	588	359	282	585	227
16	243	301	763	287	871	799	1200	712	208	252	579	334
17	318	339	892	760	693	604	1520	838	393	547	557	234
18	279	289	324	792	777	517	1900	490	270	487	598	503
19	245	457	302	775	494	437	1820	478	266	508	295	527
20	316	311	738	479	444	1900	1730	367	257	502	380	507
21	458	296	785	583	1040	1150	1690	332	392	498	405	218
22	279	295	842	459	860	1530	1830	955	433	243	402	258
23	258	283	841	532	1010	1810	1580	995	471	259	315	288
24	326	337	713	762	1050	1780	1150	1070	432	374	612	408
25	282	295	576	758	966	1720	1110	1010	396	380	887	338
26	260	687	506	732	622	1770	1150	1080	332	336	447	322
27	320	659	838	609	680	1760	1010	439	337	425	523	319
28	251	585	729	732	1000	1800	667	279	463	553	791	378
29	240	868	587	997	1020	1780	551	307	578	357	807	321
30	181	723	806	936	---	1210	482	407	396	282	325	225
31	287	---	885	617	---	750	---	385	---	607	325	---
TOTAL	8552	11238	19870	18703	18845	29555	33740	19724	14216	12789	16436	10811
MEAN	276	375	641	603	650	953	1125	636	474	413	530	360
MAX	458	868	1020	997	1180	1900	1920	1100	1000	607	959	787
MIN	181	199	293	271	270	284	358	279	208	243	295	217
†	-19	+295	-60	-50	+128	+30	+74	-51	-94	-30	-138	-40

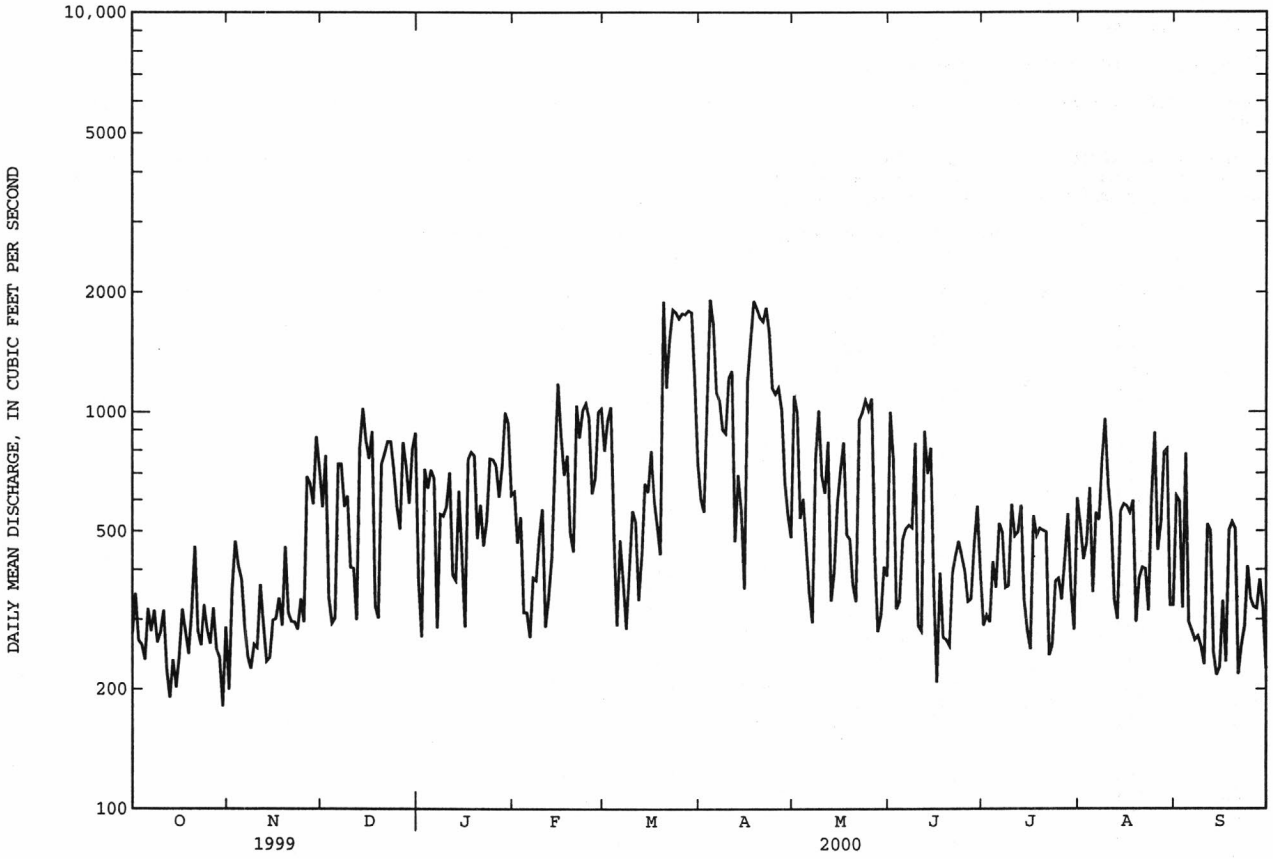
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

MEAN	653	684	850	1373	1355	1306	1105	883	852	613	808	595
MAX	1943	1615	1700	2438	2659	2093	1855	1597	2103	785	2078	1146
(WY)	1996	1993	1993	1995	1998	1993	1993	1993	1992	1995	1994	1995
MIN	228	375	298	603	650	409	437	470	395	413	364	301
(WY)	1994	2000	1999	2000	2000	1999	1999	1996	1999	2000	1997	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	194547		214479			
ANNUAL MEAN	533		586	‡588	919	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1230	1993
LOWEST ANNUAL MEAN					510	1999
HIGHEST DAILY MEAN	1870	Feb 2	1920	Apr 4	12300	Aug 18 1994
LOWEST DAILY MEAN	181	Oct 30	181	Oct 30	86	Oct 12 1993
ANNUAL SEVEN-DAY MINIMUM	241	Oct 10	241	Oct 10	112	Oct 10 1993
INSTANTANEOUS PEAK FLOW			4980	Mar 20	12300	Aug 18 1994
INSTANTANEOUS PEAK STAGE			5.80	Mar 20	16.40	Aug 18 1994
INSTANTANEOUS LOW FLOW			55*	Jun 28	55*	Jun 28 2000
10 PERCENT EXCEEDS	931		1020		1810	
50 PERCENT EXCEEDS	426		486		680	
90 PERCENT EXCEEDS	260		266		285	

† Change in contents, equivalent in cubic feet per second, in Lake James, provided by Duke Power Company.
‡ Adjusted for change in contents.
* See REMARKS.

0213903612 CATAWBA RIVER AT CALVIN, NC--Continued



02140991 JOHNS RIVER AT ARNEYS STORE, NC

LOCATION.--Lat 35°50'01", long 81°42'43", Burke County, Hydrologic Unit 03050101, on right bank 12 ft downstream of bridge on Secondary Road 1438, 0.2 mi downstream of Sims Branch, and 0.8 mi northeast of Arneys Store.

DRAINAGE AREA.--201 mi^2.

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

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

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 11,000 ft^3/s on basis of slope-area measurement; maximum gage height from high-water mark in gage house. Minimum discharge for period of record also occurred Aug. 20, 1988.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	80	263	179	175	212	228	313	133	141	298	e540
2	104	672	241	174	178	208	223	289	126	114	386	e300
3	90	442	226	172	180	199	350	272	121	101	447	e290
4	96	235	213	180	186	195	635	262	151	92	398	e420
5	110	180	202	186	193	194	518	251	137	89	295	e340
6	90	156	211	170	187	182	405	238	150	102	223	e250
7	82	142	205	165	189	176	353	236	128	100	187	e210
8	79	133	186	163	198	172	318	221	116	87	202	e190
9	78	125	180	172	208	169	306	211	111	85	207	e170
10	159	116	183	584	217	166	283	204	105	79	174	e160
11	286	112	213	511	237	261	262	192	100	71	139	e140
12	165	115	186	347	504	476	250	185	98	85	127	e130
13	131	108	182	293	682	334	241	181	94	165	115	e120
14	123	103	720	264	e800	271	250	175	92	151	109	e110
15	108	100	549	239	695	246	320	166	92	106	103	e100
16	99	95	398	230	522	253	798	160	98	83	98	e95
17	95	94	327	226	441	404	602	160	93	73	95	e88
18	92	92	287	234	387	317	644	160	95	68	93	e90
19	89	91	262	235	374	282	523	155	91	64	92	e100
20	117	90	256	240	342	1570	449	172	92	65	90	e97
21	150	93	256	e210	303	1160	399	191	99	62	108	e98
22	115	97	261	e210	285	698	359	219	97	58	108	e110
23	102	92	239	e220	272	532	330	166	99	83	96	e140
24	94	89	225	e200	259	441	307	247	85	368	92	e120
25	91	123	216	e198	249	384	354	285	83	198	88	e130
26	89	2430	205	e195	238	342	380	199	99	127	84	e150
27	89	844	206	e192	233	311	332	167	154	136	77	e120
28	85	496	199	e190	252	300	332	156	258	140	76	106
29	85	376	193	e187	222	270	381	150	425	107	76	93
30	82	306	187	191	---	259	346	145	235	110	e80	88
31	80	---	183	195	---	249	---	139	---	454	e88	---
TOTAL	3396	8227	7860	7152	9208	11233	11478	6267	3857	3764	4851	5095
MEAN	110	274	254	231	318	362	383	202	129	121	156	170
MAX	286	2430	720	584	800	1570	798	313	425	454	447	540
MIN	78	80	180	163	175	166	223	139	83	58	76	88
CFSM	.55	1.36	1.26	1.15	1.58	1.80	1.90	1.01	.64	.60	.78	.84
IN.	.63	1.52	1.45	1.32	1.70	2.08	2.12	1.16	.71	.70	.90	.94

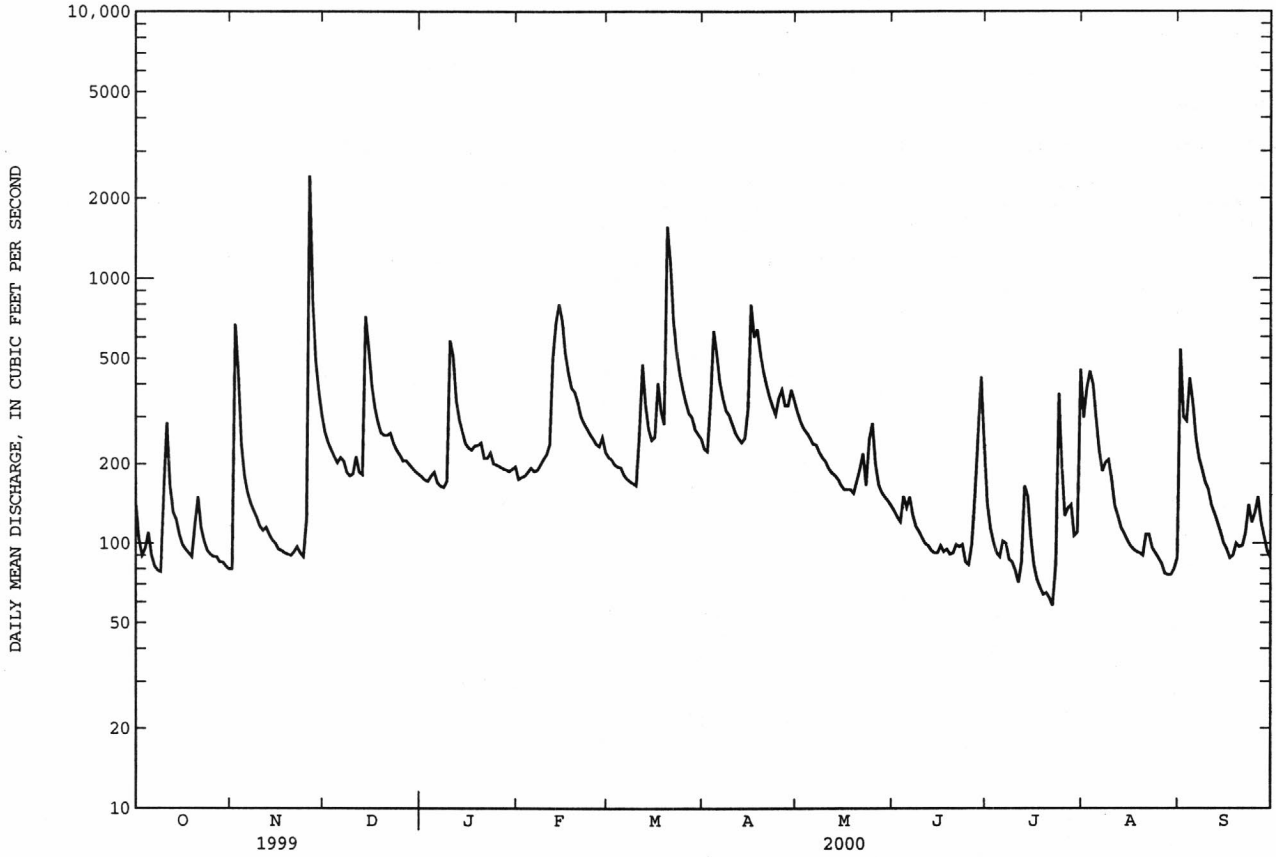
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

MEAN	280	336	320	466	435	567	476	357	330	241	300	227
MAX	890	938	602	1388	838	1151	883	595	963	570	1070	808
(WY)	1991	1993	1997	1995	1990	1993	1987	1993	1992	1989	1994	1989
MIN	85.7	108	113	180	206	179	206	166	96.9	75.5	65.5	88.7
(WY)	1989	1999	1989	1989	1988	1988	1986	1988	1988	1988	1988	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1985 - 2000	
ANNUAL TOTAL	81332		82388			
ANNUAL MEAN	223		225		362	
HIGHEST ANNUAL MEAN					502	1993
LOWEST ANNUAL MEAN					169	1988
HIGHEST DAILY MEAN	2430	Nov 26	2430	Nov 26	16100	Jan 15 1995
LOWEST DAILY MEAN	44	Sep 26	58	Jul 22	35	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	48	Sep 20	68	Jul 16	45	Aug 14 1988
INSTANTANEOUS PEAK FLOW			4290	Nov 26	42300*	Aug 17 1994
INSTANTANEOUS PEAK STAGE			9.55	Nov 26	25.23*	Aug 17 1994
INSTANTANEOUS LOW FLOW			58	Jul 22	33*	Aug 19 1988
ANNUAL RUNOFF (CFSM)	1.11		1.12		1.80	
ANNUAL RUNOFF (INCHES)	15.05		15.25		24.47	
10 PERCENT EXCEEDS	388		398		624	
50 PERCENT EXCEEDS	195		182		255	
90 PERCENT EXCEEDS	80		89		108	

e Estimated.
* See REMARKS.

02140991 JOHNS RIVER AT ARNEYS STORE, NC--Continued



02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC

LOCATION.--Lat 35°56'44", long 81°14'13", Alexander County, Hydrologic Unit 03050101, on left bank at upstream side of bridge on Secondary Road 1313, 0.3 mi downstream of Grassy Creek, 0.4 mi upstream from Lambert Creek, 2.2 mi northeast of All Healing Springs, and 4 mi northwest of Taylorsville.

DRAINAGE AREA.--28.2 mi^2.

PERIOD OF RECORD.--October to December 1952 (monthly discharge only), January 1953 to September 1995, October 1997 to current year.

REVISED RECORDS.--WDR NC-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,070 ft above sea level, by barometer. Prior to June 13, 1953, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 21, 1955. Minimum discharge for current water year also occurred Aug. 27, 28, 29, 30, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	9.5	14	12	18	18	19	30	14	16	6.8	5.6
2	8.7	26	13	12	19	17	20	28	13	13	8.8	19
3	8.2	17	13	12	19	17	59	26	13	12	7.8	18
4	10	13	12	18	20	17	57	24	14	11	7.1	15
5	10	12	12	17	20	16	43	23	15	11	6.3	12
6	8.4	12	15	14	20	16	36	22	15	11	5.9	8.5
7	8.0	12	13	14	20	15	31	21	13	11	5.8	7.3
8	7.8	12	12	13	21	16	29	20	12	9.7	7.9	7.1
9	8.0	13	12	19	21	15	26	19	12	9.4	6.5	6.8
10	15	13	14	73	21	15	24	19	11	8.5	8.4	6.2
11	16	16	13	51	21	20	23	18	9.9	7.9	5.9	6.1
12	11	19	12	36	50	20	22	17	9.5	11	5.1	6.0
13	13	17	13	30	49	17	22	16	9.0	12	4.8	6.0
14	12	16	42	25	63	16	22	15	9.1	9.8	5.0	6.9
15	9.9	16	28	22	48	16	41	14	8.6	9.2	4.7	5.8
16	9.4	15	21	21	38	24	62	14	9.1	7.8	4.8	5.2
17	9.1	15	18	20	32	31	52	15	9.1	7.2	4.3	5.2
18	8.8	15	16	21	30	24	70	14	9.5	7.0	4.1	5.7
19	8.6	15	15	20	28	21	50	14	8.8	7.0	4.1	12
20	19	15	16	22	24	102	40	20	9.0	6.7	4.2	7.0
21	18	16	17	21	23	76	35	22	9.6	6.1	4.9	6.8
22	13	18	17	20	22	48	31	28	8.9	6.2	4.6	6.7
23	11	16	15	19	21	37	28	18	8.3	7.0	4.3	15
24	10	20	15	18	20	32	28	18	7.6	13	4.1	8.9
25	10	27	14	18	20	29	36	19	11	8.7	3.9	9.7
26	10	59	13	17	19	26	31	17	11	8.2	3.8	24
27	9.8	30	13	e17	20	24	28	16	34	7.4	3.6	11
28	9.6	21	13	e16	20	23	37	15	71	6.8	4.2	8.7
29	9.6	18	12	16	18	21	37	15	42	7.7	3.8	7.9
30	9.5	16	12	19	---	21	34	14	22	6.6	3.6	7.8
31	9.4	---	12	18	---	20	---	14	---	8.3	5.8	---
TOTAL	330.6	539.5	477	671	765	810	1073	585	449.0	284.2	164.9	277.9
MEAN	10.7	18.0	15.4	21.6	26.4	26.1	35.8	18.9	15.0	9.17	5.32	9.26
MAX	19	59	42	73	63	102	70	30	71	16	8.8	24
MIN	7.8	9.5	12	12	18	15	19	14	7.6	6.1	3.6	5.2
CFSM	.38	.64	.55	.77	.94	.93	1.27	.67	.53	.33	.19	.33
IN.	.44	.71	.63	.89	1.01	1.07	1.42	.77	.59	.37	.22	.37

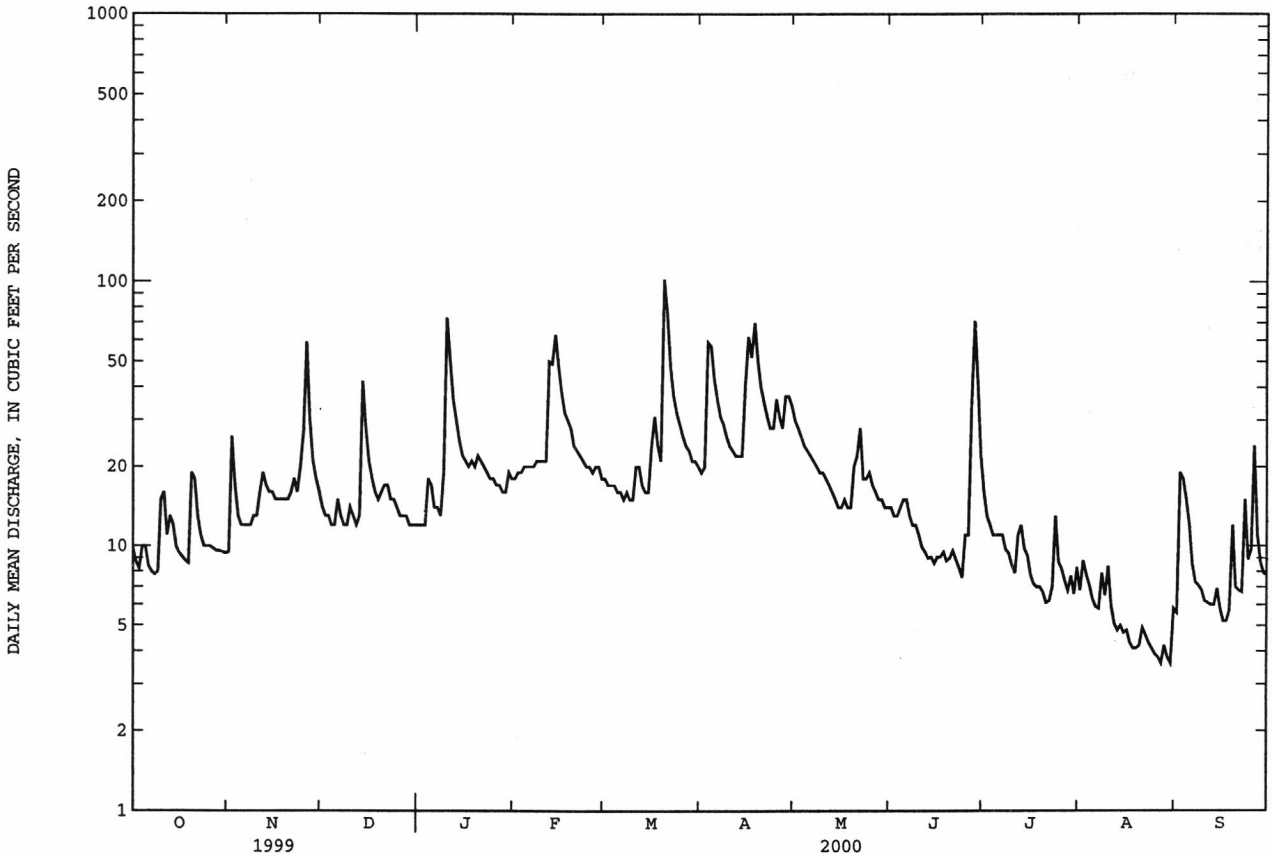
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000@, BY WATER YEAR (WY)

MEAN	28.3	28.3	35.8	43.3	51.7	59.6	58.7	42.4	37.1	27.5	26.8	25.3
MAX	103	115	76.3	117	134	153	137	98.5	106	88.1	123	102
(WY)	1965	1978	1984	1978	1960	1975	1958	1975	1975	1984	1970	1979
MIN	6.04	7.03	8.16	9.36	22.4	21.1	18.8	16.4	10.1	9.11	4.86	4.75
(WY)	1955	1956	1956	1956	1956	1956	1966	1956	1956	1954	1956	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000@	
ANNUAL TOTAL	7684.9		6427.1			
ANNUAL MEAN	21.1		17.6		38.9	
HIGHEST ANNUAL MEAN					65.2	1993
LOWEST ANNUAL MEAN					14.9	1956
HIGHEST DAILY MEAN	158	Jan 24	102	Mar 20	2270	Aug 10 1970
LOWEST DAILY MEAN	5.2	Sep 26	3.6	Aug 27	3.1	Sep 20 1955
ANNUAL SEVEN-DAY MINIMUM	5.5	Sep 20	3.9	Aug 24	3.4	Sep 17 1955
INSTANTANEOUS PEAK FLOW			317	Jun 28	4850	Aug 10 1970
INSTANTANEOUS PEAK STAGE			3.80	Jun 28	15.68	Aug 10 1970
INSTANTANEOUS LOW FLOW			3.4*	Aug 26	2.9*	Sep 20 1955
ANNUAL RUNOFF (CFSM)	.75		.62		1.38	
ANNUAL RUNOFF (INCHES)	10.14		8.48		18.72	
10 PERCENT EXCEEDS	37		31		67	
50 PERCENT EXCEEDS	16		15		26	
90 PERCENT EXCEEDS	8.1		6.6		12	

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

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



0214253830 NORWOOD CREEK NEAR TROUTMAN, NC

LOCATION.--Lat 35°40'48", long 80°56'44", Iredell County, Hydrologic Unit 03050101, on left upstream wingwall of culvert on Secondary Road 1328, 0.4 mi upstream from Lake Norman, 0.7 mi downstream of Powder Spring Branch, 1.0 mi northeast of East Monbo, and 3.7 mi southwest of Troutman.

DRAINAGE AREA.--7.18 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 761.09 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for Oct. to May, due to beaver activity and those for estimated daily discahrges, which are poor. Maximum discharge for period of record, from rating curve extended above 400 ft^3/s by logarithmic plotting. Minimum discharge for current water year occurred on several days in Aug.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	5.1	4.7	3.2	3.4	e3.8	e4.8	9.1	3.2	1.8	1.0	.92
2	e3.0	6.8	4.3	3.3	3.4	e3.6	e4.4	16	3.1	1.7	1.0	2.3
3	e2.4	5.5	4.2	3.4	3.3	e3.5	e6.0	18	3.0	1.7	1.0	3.5
4	e2.6	5.6	4.0	3.8	3.2	e3.5	e10	9.1	3.1	1.7	1.1	4.0
5	2.9	5.6	4.1	3.6	3.2	e3.5	e9.0	7.4	3.7	1.8	1.1	2.3
6	2.7	5.7	4.8	3.5	3.1	e3.4	e7.8	6.6	3.4	1.7	1.0	1.7
7	2.6	5.8	4.4	3.5	3.1	e3.4	e6.0	6.1	3.1	2.3	.97	1.5
8	2.5	6.1	4.3	3.4	3.1	e3.4	e5.4	5.8	3.0	1.6	.94	1.4
9	2.5	6.1	4.3	3.9	3.3	e3.3	e5.2	5.5	2.9	1.5	.93	1.3
10	3.1	6.0	4.5	13	3.4	e3.3	e5.0	5.2	2.7	1.4	1.1	1.3
11	22	6.3	4.5	e6.0	3.6	e3.4	e4.9	5.0	2.7	1.4	.95	1.3
12	5.5	6.3	4.4	e4.0	4.9	e4.0	e4.8	4.8	2.6	1.3	.87	1.2
13	4.5	6.0	4.4	e3.6	4.4	e3.8	e4.7	4.7	2.5	1.6	.85	1.2
14	4.1	5.6	5.3	3.2	e14	e3.6	e4.8	4.6	2.5	1.5	.85	1.2
15	3.9	5.4	4.6	3.3	e12	e3.2	e9.0	4.5	2.5	1.4	.81	1.2
16	3.7	5.3	4.4	3.3	e10	e4.0	e20	4.4	2.6	1.2	.78	1.1
17	3.6	5.2	4.4	3.3	e8.0	e6.0	e16	4.3	2.4	1.2	.74	1.1
18	3.5	5.1	4.3	3.5	e7.0	e10	e12	4.2	2.4	1.1	.72	1.2
19	3.5	5.0	4.3	3.4	e6.0	e7.0	e10	4.1	2.3	1.1	.73	4.0
20	4.0	5.2	4.3	3.8	e5.4	e60	e9.0	4.0	2.3	1.2	.73	1.6
21	4.0	5.1	4.7	3.8	e5.0	e10	e8.0	4.6	2.3	1.1	.82	1.5
22	3.8	5.2	4.5	3.7	e4.8	e8.0	e7.4	5.1	2.2	1.1	.77	1.4
23	3.8	5.2	4.2	3.7	e4.6	e7.0	e7.0	4.1	2.1	1.2	.72	2.8
24	3.8	5.2	4.1	3.6	e4.2	e6.6	10	4.0	2.0	1.5	.72	1.9
25	4.0	5.4	4.0	3.5	e4.0	e6.4	12	3.8	2.0	1.4	.69	1.7
26	3.9	5.9	3.8	3.3	e3.9	e6.2	10	3.7	1.9	1.4	.77	1.7
27	3.9	5.4	3.6	3.2	e3.8	e5.8	8.9	3.5	2.4	1.3	.73	1.6
28	3.9	5.3	3.5	3.3	e4.0	e5.6	16	3.6	2.0	1.2	.73	1.5
29	4.0	5.0	3.5	3.3	e3.8	e5.4	19	3.7	2.1	1.1	.71	1.4
30	4.0	4.8	3.3	3.5	---	e5.2	14	3.4	2.0	1.1	.70	1.4
31	4.7	---	3.2	3.5	---	e5.0	---	3.3	---	1.0	.78	---
TOTAL	131.4	166.2	130.9	120.4	145.9	210.9	271.1	176.2	77.0	43.6	26.31	52.22
MEAN	4.24	5.54	4.22	3.88	5.03	6.80	9.04	5.68	2.57	1.41	.85	1.74
MAX	22	6.8	5.3	13	14	60	20	18	3.7	2.3	1.1	4.0
MIN	2.4	4.8	3.2	3.2	3.1	3.2	4.4	3.3	1.9	1.0	.69	.92
CFSM	.59	.77	.59	.54	.70	.95	1.26	.79	.36	.20	.12	.24
IN.	.68	.86	.68	.62	.76	1.09	1.40	.91	.40	.23	.14	.27

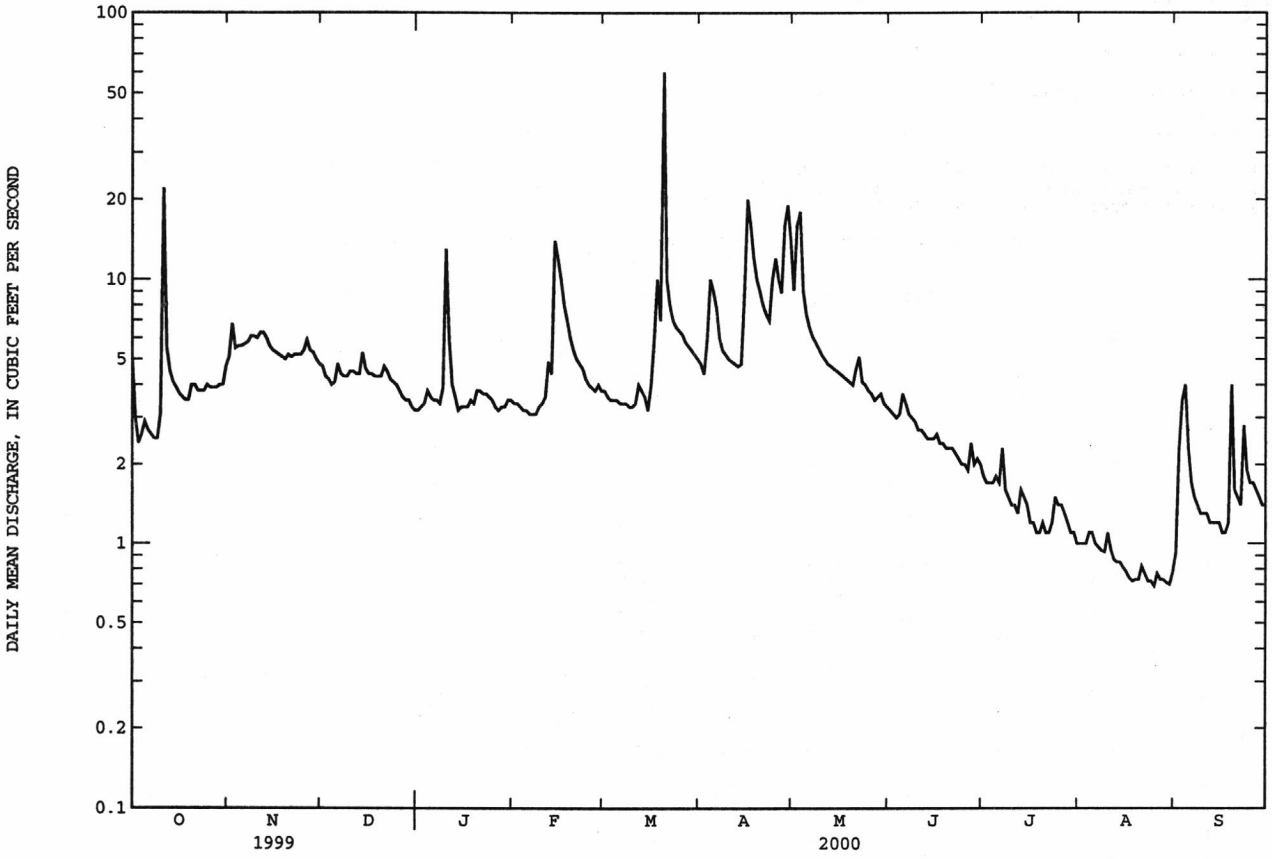
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	9.08	7.61	8.44	11.0	13.3	13.7	11.4	7.44	6.45	5.49	5.30	4.48
MAX	36.1	16.9	15.8	21.0	25.1	35.2	24.2	15.2	24.4	22.1	13.0	10.5
(WY)	1991	1993	1984	1993	1990	1993	1997	1990	1992	1989	1994	1989
MIN	2.75	3.19	3.83	3.88	4.97	4.49	3.60	2.86	1.61	1.41	.85	1.74
(WY)	1999	1999	1999	2000	1999	1999	1986	1986	1986	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000	
ANNUAL TOTAL	1552.13			
ANNUAL MEAN	4.24		8.42	
HIGHEST ANNUAL MEAN			13.1	1991
LOWEST ANNUAL MEAN			3.91	1999
HIGHEST DAILY MEAN	60	Mar 20	387	Oct 1 1989
LOWEST DAILY MEAN	.69	Aug 25	.69	Aug 25 2000
ANNUAL SEVEN-DAY MINIMUM	.72	Aug 24	.72	Aug 24 2000
INSTANTANEOUS PEAK FLOW	243	Mar 20	1480*	Apr 28 1997
INSTANTANEOUS PEAK STAGE	5.96	Mar 20	9.20	Apr 28 1997
INSTANTANEOUS LOW FLOW	.68*	Aug 17	.67	Aug 2 1986
ANNUAL RUNOFF (CFSM)	.59		1.17	
ANNUAL RUNOFF (INCHES)	8.04		15.94	
10 PERCENT EXCEEDS	7.0		12	
50 PERCENT EXCEEDS	3.6		5.4	
90 PERCENT EXCEEDS	1.1		2.9	

e Estimated.
* See REMARKS.

0214253830 NORWOOD CREEK NEAR TROUTMAN, NC--Continued



02142651 CRN24

LOCATION.--Lat 35°27'49", long 80°52'36", Mecklenburg County, Hydrologic Unit 03050103, McDowell Creek at Westmoreland Road near Cornelius, NC.

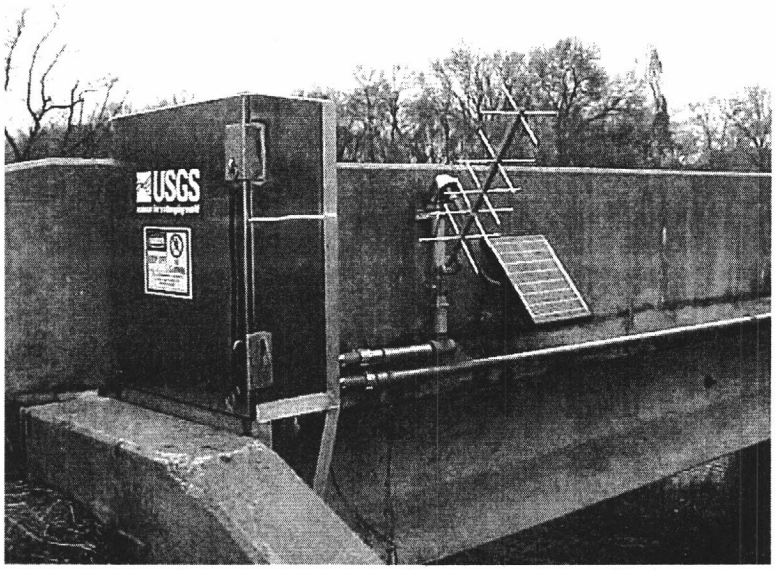
PERIOD OF RECORD.-- May 1994 to current year. Records for period May 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.15
2	.00	.57	.00	.00	.00	.00	.15	.71	.00	.00	.02	.74
3	.00	.00	.00	.00	.00	.00	.28	.01	.08	.00	---	.48
4	.48	.00	.00	.43	.00	.03	.01	.00	.02	.07	---	.96
5	.00	.00	.02	.00	.00	.00	.00	.00	.22	.01	.00	.00
6	.00	.00	.68	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.30	.00	.00
8	.00	.00	.00	.04	.00	.00	.47	.00	.00	.00	.00	.00
9	.00	.00	.00	.67	.00	.00	.00	.00	.00	.00	.00	.00
10	1.28	.00	.30	.75	.00	.00	.00	.00	.00	.00	.38	.00
11	1.74	.44	.00	.00	.00	.19	.00	.00	.00	.07	.00	.00
12	.00	.00	.00	.00	.90	.00	.00	.00	.00	.10	.00	.00
13	.16	.00	.10	.00	.19	.00	.14	.17	.00	.59	.00	.00
14	.00	.00	.36	.00	.53	.00	.33	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.63	.00	.14	.00	.00	.00
16	.00	.00	.00	.00	.00	1.60	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.06	.01	.13	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.10	.00	.01	.00	.10	.00	.38	1.12
19	.01	.00	.08	---	.00	.00	.00	.00	.00	.01	.00	.26
20	.40	.00	.10	---	.00	1.41	.00	.00	.00	.00	.00	.00
21	.01	.01	.85	---	.00	.00	.00	.03	.00	.00	.00	.06
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.01	.00	.60
23	.00	.00	.00	---	.00	.00	.00	.07	.00	.12	.00	.43
24	.00	.00	.00	---	.00	.00	.53	.22	.00	.06	.46	.00
25	.00	.06	.00	---	.00	.00	.10	.02	.00	.36	.00	.37
26	.00	.82	.00	---	.00	.00	.00	.00	.02	.00	.00	.00
27	.00	.00	.00	---	.27	.41	.00	.00	.11	.01	.00	.00
28	.00	.00	.00	---	.00	.00	.59	.17	.00	.00	.00	.00
29	.00	.00	.00	---	.00	.01	.05	.06	.16	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.13	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.01	.01	---
TOTAL	4.08	1.90	2.50	3.39	2.05	3.67	3.42	1.46	0.85	4.72	---	5.17



USGS gaging station at Rocky River near Stanfield.

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°23'22", long 80°55'16", Mecklenburg County, Hydrologic Unit 03050101, on right bank at downstream side of bridge on Secondary Road 2074, 2.1 mi downstream of Torrence Creek, 2.8 mi south of Hicks Crossroads, 12.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.-26.3-mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 635 ft above sea level, from topographic map. Radio telemetry at site.

REMARKS.--No estimated daily discharges. Records fair except for February 15-28, 2000, March 1, 2, 17-22, 2000 and April 17-18, 2000 which are poor. Minimum discharge for current water year also occurred Oct. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.8	5.1	5.3	25	14	11	10	10	6.3	10	5.0
2	2.1	22	4.9	5.5	18	12	14	20	4.5	6.6	7.7	12
3	1.8	5.5	4.6	5.6	15	11	22	84	4.2	6.1	9.9	51
4	13	4.0	4.4	15	14	11	14	14	4.5	6.5	171	95
5	4.5	3.9	4.4	10	12	14	11	11	9.7	6.8	13	13
6	2.2	3.9	31	6.2	11	12	10	9.6	5.9	6.5	9.0	7.9
7	1.8	3.6	6.4	6.0	11	13	9.4	8.7	4.6	277	7.9	6.5
8	1.8	3.5	5.0	5.7	9.9	14	30	8.4	4.3	22	7.5	5.7
9	1.9	3.6	4.5	34	9.4	13	16	7.6	4.7	12	7.8	5.0
10	68	3.3	15	223	9.6	12	11	7.6	3.5	7.4	15	4.8
11	276	34	7.5	42	9.4	14	9.9	6.6	3.9	13	7.0	5.0
12	18	12	5.4	20	162	18	9.2	6.5	3.4	37	6.2	5.0
13	11	4.9	5.3	16	48	13	13	13	3.0	47	5.9	4.5
14	7.8	4.0	43	12	251	8.2	22	18	2.9	13	5.8	4.4
15	5.0	4.3	9.3	11	51	7.5	106	7.2	3.2	9.3	5.5	4.1
16	4.6	4.5	6.7	11	29	71	52	6.8	3.0	8.6	5.4	4.3
17	4.1	4.0	5.6	9.9	22	157	23	6.2	2.9	7.6	5.5	3.9
18	4.2	3.9	5.5	15	26	26	25	5.4	3.5	7.8	6.3	5.1
19	3.7	4.1	5.4	12	20	18	15	5.3	4.3	7.0	7.6	86
20	9.5	4.1	8.0	38	17	283	13	4.6	3.1	8.7	5.4	6.2
21	11	4.3	83	14	16	110	12	5.0	3.1	6.7	5.1	4.7
22	5.1	4.7	28	12	13	32	11	5.4	2.7	7.1	5.4	17
23	4.2	4.5	12	27	13	21	10	4.5	4.8	7.3	5.2	85
24	4.3	4.3	8.6	20	13	18	11	6.3	7.6	10	5.7	8.9
25	3.9	4.4	7.0	28	14	15	34	7.3	7.1	29	9.2	24
26	4.3	62	7.0	19	12	14	13	5.0	7.5	9.1	5.4	12
27	3.8	9.4	6.5	13	17	37	11	5.0	8.0	7.7	5.4	5.6
28	4.1	6.0	6.0	11	18	29	36	4.3	7.1	7.4	5.1	4.5
29	4.2	5.4	5.8	10	17	15	17	7.6	11	7.3	4.8	4.5
30	4.5	5.4	5.8	75	---	14	12	5.1	8.0	6.9	4.8	4.1
31	4.7	---	5.6	39	---	13	---	10	---	6.8	6.8	---
TOTAL	497.7	248.3	362.3	771.2	903.3	1059.7	603.5	326.0	156.0	621.5	382.3	504.7
MEAN	16.1	8.28	11.7	24.9	31.1	34.2	20.1	10.5	5.20	20.0	12.3	16.8
MAX	276	62	83	223	251	283	106	84	11	277	171	95
MIN	1.8	3.3	4.4	5.3	9.4	7.5	9.2	4.3	2.7	6.1	4.8	3.9
CFSM	.61	.31	.44	.95	1.18	1.30	.76	.40	.20	.76	.47	.64
IN.	.70	.35	.51	1.09	1.28	1.50	.85	.46	.22	.88	.54	.71

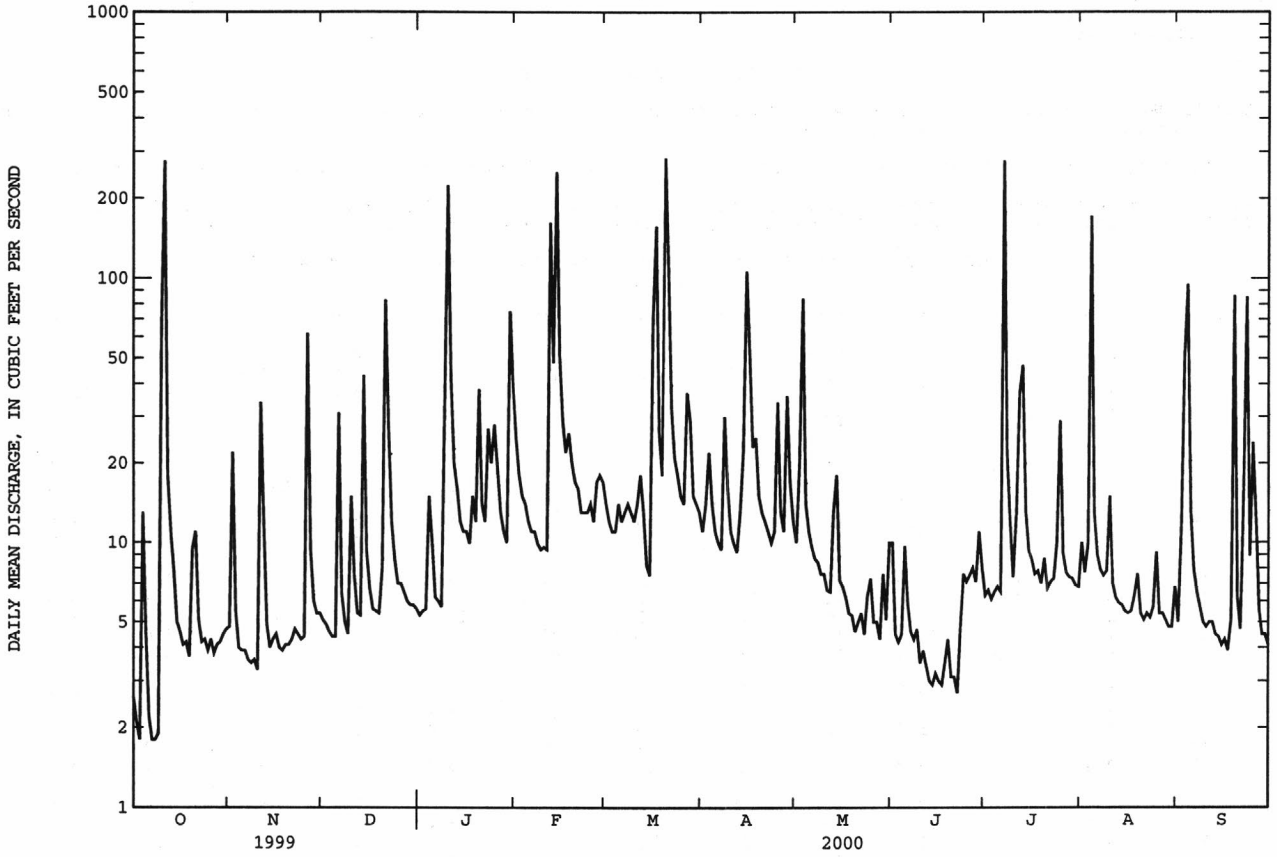
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	18.8	18.0	25.8	45.0	46.9	33.1	27.1	17.5	8.82	14.8	7.25	13.5
MAX	36.3	40.7	48.9	94.0	73.3	48.0	37.9	27.4	10.9	27.9	12.3	24.0
(WY)	1998	1998	1998	1998	1998	1998	1997	1997	1997	1997	2000	1997
MIN	4.15	5.15	11.4	24.9	22.5	12.1	15.6	8.96	5.20	4.68	2.50	5.35
(WY)	1999	1999	1999	2000	1999	1999	1999	1999	2000	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	4329.54		6436.5			
ANNUAL MEAN	11.9		17.6		21.3	
HIGHEST ANNUAL MEAN					35.8	1998
LOWEST ANNUAL MEAN					10.6	1999
HIGHEST DAILY MEAN	276	Oct 11	283	Mar 20	477	Jul 23 1997
LOWEST DAILY MEAN	.59	Sep 25	1.8	Oct 3	.59	Sep 25 1999
ANNUAL SEVEN-DAY MINIMUM	.99	Sep 20	3.1	Jun 12	.99	Sep 20 1999
INSTANTANEOUS PEAK FLOW			616	Mar 20	995	Jan 28 1998
INSTANTANEOUS PEAK STAGE			9.43	Mar 20	11.11	Jan 28 1998
INSTANTANEOUS LOW FLOW			1.5*	Oct 3	.29	Sep 23 1999
ANNUAL RUNOFF (CFSM)	.45		.67		.81	
ANNUAL RUNOFF (INCHES)	6.12		9.10		11.01	
10 PERCENT EXCEEDS	18		30		42	
50 PERCENT EXCEEDS	6.4		7.9		11	
90 PERCENT EXCEEDS	1.8		4.1		3.6	

* See REMARKS.

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC--Continued



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.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.60
2	.00	.75	.00	.00	.00	.00	.02	.10	.00	.00	.05	.64
3	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	1.21	2.01
4	.65	.00	.00	.40	.00	.10	.01	.00	.04	.04	.08	1.16
5	.00	.00	.03	.00	.00	.00	.00	.00	.37	.11	.00	.00
6	.00	.00	.55	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.68	.00	.00
8	.00	.00	.00	.04	.00	.00	.01	.00	.00	.00	.07	.00
9	.00	.00	.00	.69	.00	.00	.00	.00	.00	.00	.00	.00
10	1.69	.00	.35	.87	.00	.00	.00	.00	.00	.00	.41	.00
11	1.58	.75	.00	.00	.00	.20	.00	.00	.00	.26	.00	.00
12	.00	.00	.00	.00	1.24	.00	.00	.00	.00	.55	.00	.00
13	.27	.00	.12	.00	.27	.00	.40	1.08	.00	.16	.00	.00
14	.00	.00	.41	.00	.65	.00	.80	.01	.00	.10	.00	.00
15	.00	.00	.00	.00	.00	.00	.62	.00	.16	.01	.00	.00
16	.00	.00	.00	.00	.00	1.47	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.11	.00	.02	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.10	.00	.00	.00	.48	.00	.35	1.30
19	.02	.00	.08	---	.00	.00	.00	.00	.00	.36	.00	.17
20	.50	.00	.07	---	.00	1.36	.00	.00	.00	.01	.00	.00
21	.01	.09	.84	---	.00	.00	.00	.04	.00	.01	.00	.08
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	.91
23	.00	.00	.00	---	.00	.00	.00	.08	.00	.76	.00	.58
24	.00	.00	.00	---	.00	.00	.53	.09	.00	.07	.54	.01
25	.00	.06	.00	---	.00	.00	.14	.06	.23	1.19	.00	.30
26	.00	.85	.00	---	.00	.00	.15	.01	.19	.00	.01	.00
27	.00	.00	.00	---	.30	.45	.00	.00	.04	.06	.01	.00
28	.00	.00	.00	---	.01	.01	.46	.07	.24	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.04	.09	.23	.02	.00	.00
30	.00	.00	.00	---	---	.02	.00	.00	.00	.00	.18	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.09	.18	---
TOTAL	4.72	2.50	2.46	3.55	2.68	3.62	3.20	1.63	1.99	5.49	3.24	7.76

0214266075 CRN25

LOCATION.--Lat 35°21'55", long 80°53'12", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.28
2	.00	.45	.00	.00	.00	.00	.20	.20	.00	.00	.02	.33
3	.00	.00	.00	.00	.00	.00	.20	.00	.01	.00	1.35	.09
4	.37	.00	.00	.36	.00	.02	.01	.00	.07	.03	.08	.42
5	.00	.00	.00	.00	.00	.00	.00	.00	.42	.17	.00	.00
6	.00	.00	.27	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.65	.00	.00
8	.00	.00	.00	.04	.00	.00	.45	.00	.00	.00	.00	.00
9	.00	.00	.00	.52	.00	.00	.00	.00	.00	.00	.00	.00
10	2.19	.00	.29	.78	.00	.00	.00	.01	.00	.00	.45	.00
11	1.51	.55	.00	.00	.00	.28	.00	.00	.00	.73	.00	.00
12	.00	.01	.00	.00	1.06	.00	.00	.00	.00	.89	.00	.00
13	.23	.00	.09	.00	.22	.00	.38	.44	.00	.17	.00	.00
14	.00	.00	.54	.00	.55	.00	.61	.00	.00	.02	.00	.00
15	.00	.00	.00	.00	.00	.00	.65	.00	.08	.01	.00	.00
16	.00	.00	.00	.00	.00	1.52	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.09	.01	.27	.00	.01	.00	.00	.00
18	.00	.00	.00	---	.13	.00	.00	.00	.09	.00	.42	1.30
19	.03	.00	.07	---	.00	.00	.00	.00	.00	.24	.00	.17
20	.51	.00	.08	---	.00	1.31	.00	.00	.00	.00	.00	.00
21	.01	.11	.66	---	.00	.00	.00	.07	.00	.03	.00	.07
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	.86
23	.00	.00	.00	---	.00	.00	.00	.07	.00	.21	.00	.56
24	.00	.00	.00	---	.00	.00	.46	.06	.00	.05	.38	.06
25	.00	.02	.00	---	.00	.00	.17	.01	.03	.67	.01	.25
26	.00	.88	.00	---	.00	.00	.00	.00	.44	.00	.00	.00
27	.00	.00	.00	---	.27	.80	.00	.00	.07	.02	.00	.00
28	.00	.00	.00	---	.01	.00	.40	.03	.60	.00	.00	.00
29	.00	.00	.00	---	.00	.01	.05	.09	.14	.01	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.17	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.27	.10	---
TOTAL	4.85	2.02	2.01	2.75	2.33	3.96	3.86	0.98	1.96	5.18	3.14	4.39

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.

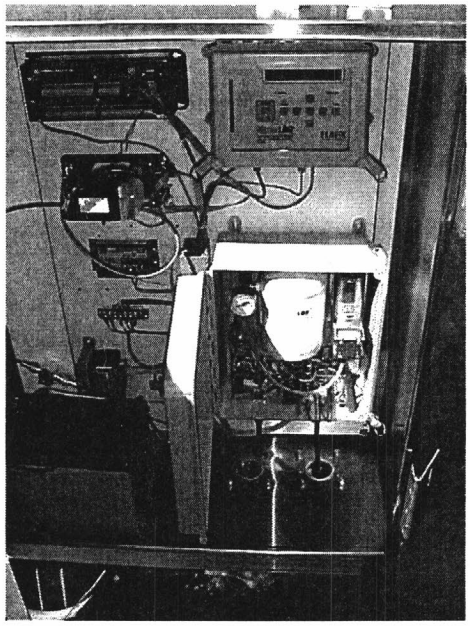
PERIOD OF RECORD.--January 1996 to current year. Records for period January 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31	.94
2	.00	.72	.00	.00	.00	.00	.23	.01	.00	.00	.04	.40
3	.00	.00	.00	.00	.00	.00	.31	.01	.11	.00	.11	.65
4	.57	.00	.00	.33	.00	.06	.01	.00	.10	.02	.02	.59
5	.00	.00	.03	.00	.00	.00	.00	.00	.29	.08	.00	.00
6	.00	.00	.39	.00	.00	.00	.00	.00	.00	.04	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65	.00	.00
8	.00	.00	.00	.03	.00	.00	.33	.00	.00	.00	.37	.00
9	.00	.00	.00	.52	.00	.00	.00	.00	.00	.00	.00	.00
10	2.15	.00	.32	.72	.00	.00	.00	.00	.00	.00	---	.00
11	1.43	.42	.00	.00	.00	.13	.00	.00	.00	.24	.00	.00
12	.00	.00	.00	.00	1.11	.00	.00	.00	.00	1.92	.00	.00
13	.26	.01	.17	.00	.27	.00	.57	.40	.00	.01	.00	.00
14	.00	.00	.45	.00	.64	.00	.78	.00	.00	.06	.00	.02
15	.00	.00	.00	.00	.00	.00	.58	.00	.19	.00	.00	.00
16	.00	.00	.00	.00	.00	1.12	.00	.00	.09	.00	.00	.00
17	.00	.00	.00	.00	.11	.01	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.10	.00	.00	.00	.12	.00	.29	1.48
19	.01	.00	.05	---	.00	.00	.00	.00	.00	.23	.00	.06
20	.42	.00	.05	---	.00	1.94	.00	.00	.00	.01	.00	.00
21	.00	.03	.81	---	.00	.01	.00	.01	.02	.00	.00	.14
22	.01	.01	.01	---	.00	.00	.00	.00	.01	.00	.00	1.00
23	.00	.00	.00	---	.00	.00	.00	.05	.00	.27	.00	.53
24	.00	.00	.00	---	.00	.00	.61	.08	.00	.11	.26	.04
25	.00	.14	.00	---	.00	.00	.08	.00	.12	.80	.00	.24
26	.00	.79	.00	---	.00	.00	.00	.00	.26	.00	.00	.00
27	.00	.00	.00	---	.29	.37	.00	.00	.05	.45	.00	.00
28	.00	.00	.00	---	.00	.00	.60	.02	.70	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.07	.05	.00	.00	.00
30	.00	.00	.00	---	---	.02	.00	.00	.01	.00	---	.00
31	.00	---	.00	.00	---	.02	---	.00	---	.09	---	---
TOTAL	4.85	2.12	2.28	3.27	2.52	3.68	4.10	0.65	2.12	4.98	---	6.09



Instrumentation at USGS gaging station at Stewart Creek at State street at Charlotte.

0214269560 KILLIAN CREEK NEAR MARIPOSA, NC

LOCATION.--Lat 35°26'03", long 81°01'49", Lincoln County, Hydrologic Unit 03050101, on right bank, 1,000 ft upstream from Forney Creek, 1.5 mi northwest of Lowesville, 1.7 mi upstream from bridge on Secondary Road 1511, and 2.4 mi northeast of Mariposa.

DRAINAGE AREA.--36.4 mi^2.

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 sea level (levels by Duke Power Co). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Station was established to study low-flow conditions for Duke Power Co., no structure exists near the site for measuring high-stage flow; therefore, a peak flow was not determined to coincide with the peak stage for the year. Missing values on the daily values table are days when the flow exceeded the rating. Minimum discharges may be affected by diversions by Duke Power. Minimum discharge for period of record also occurred Aug. 19, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	8.4	10	13	25	19	21	37	9.9	7.8	8.6	5.8
2	5.6	20	10	13	23	18	22	33	9.2	7.1	7.8	36
3	5.7	16	10	12	21	18	37	---	11	5.9	8.1	36
4	6.7	11	10	14	20	17	34	39	15	5.4	21	---
5	7.5	9.8	10	15	18	17	27	32	14	6.7	17	23
6	5.9	9.7	15	13	18	16	25	29	16	6.5	9.7	12
7	5.7	9.5	13	14	17	16	24	26	12	7.6	8.8	10
8	5.8	9.2	11	12	17	16	26	22	11	6.9	7.2	9.4
9	6.2	9.2	11	16	17	16	27	20	10	6.4	6.3	9.0
10	9.3	8.6	12	---	16	16	29	20	9.7	5.5	7.5	8.5
11	---	8.8	13	48	16	17	23	19	8.8	3.6	6.3	8.0
12	21	9.8	12	29	35	21	23	16	8.4	5.8	5.8	7.7
13	13	9.7	12	24	37	14	23	16	7.3	24	5.6	7.4
14	11	9.4	25	20	---	12	26	20	7.5	12	6.0	6.7
15	9.5	9.2	18	19	44	14	---	16	8.6	9.0	5.7	6.0
16	8.9	8.9	16	18	33	---	---	15	9.6	7.2	5.5	5.7
17	8.7	8.9	14	17	28	---	44	15	8.7	6.7	4.7	5.4
18	8.6	9.0	13	18	26	39	59	14	9.1	5.7	5.1	5.8
19	8.2	9.1	13	17	25	30	42	13	8.6	5.3	6.3	33
20	9.7	9.3	14	28	22	---	36	12	9.3	5.3	5.6	12
21	12	9.5	23	23	21	---	32	14	9.8	4.3	6.0	9.4
22	9.5	9.8	30	21	20	51	29	14	8.2	6.2	5.9	13
23	8.8	9.6	20	22	20	38	27	13	8.5	7.5	5.5	27
24	8.3	9.6	17	21	19	32	27	14	7.7	10	5.2	15
25	8.3	10	15	21	19	28	43	14	7.1	11	6.5	---
26	8.4	18	14	20	18	26	33	13	6.4	9.3	5.7	26
27	8.6	15	14	20	21	27	29	12	6.7	8.2	5.4	13
28	8.4	12	13	22	25	27	---	12	8.4	9.3	5.4	11
29	8.4	11	13	20	20	23	---	16	9.6	---	5.0	9.8
30	8.5	10	13	e25	---	23	45	12	9.7	11	4.5	9.5
31	8.5	---	13	29	---	22	---	12	---	9.0	5.0	---
TOTAL	261.3	318.0	447	604	641	613	813	560	285.8	236.2	218.7	381.1
MEAN	8.71	10.6	14.4	20.1	22.9	22.7	31.3	18.7	9.53	7.87	7.05	13.6
MAX	21	20	30	48	44	51	59	39	16	24	21	36
MIN	5.6	8.4	10	12	16	12	21	12	6.4	3.6	4.5	5.4
CFSM	.24	.29	.40	.55	.63	.62	.86	.51	.26	.22	.19	.37
IN.	.27	.32	.46	.62	.66	.63	.83	.57	.29	.24	.22	.39

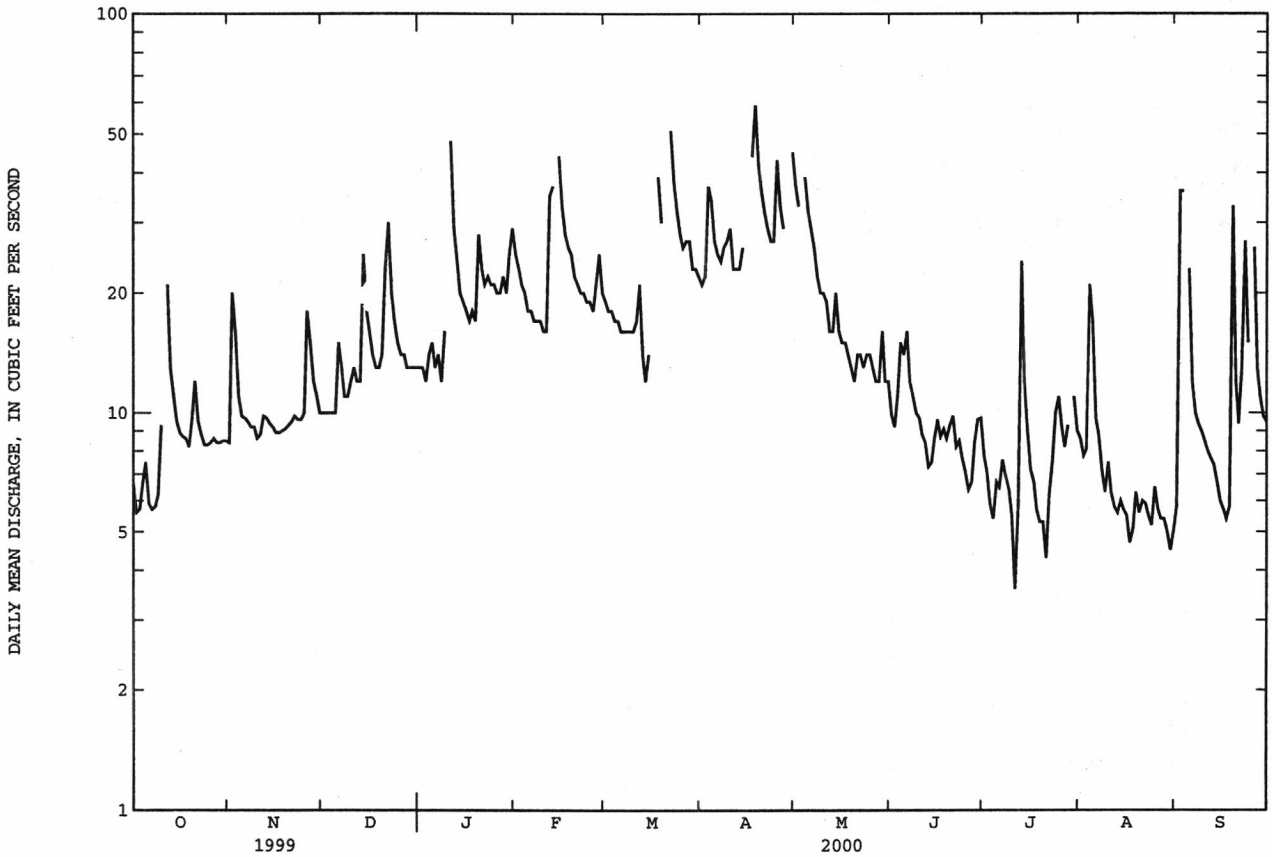
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000@, BY WATER YEAR (WY)

MEAN	17.8	24.2	27.6	35.5	37.4	43.0	40.8	32.2	25.4	16.1	14.4	14.2
MAX	31.1	51.0	47.7	61.7	60.0	96.6	64.4	49.4	48.8	21.9	26.7	22.6
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1992	1995	1991	1995
MIN	8.71	10.6	14.4	20.1	22.9	22.7	21.6	18.7	9.53	7.87	3.98	3.77
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000@	
ANNUAL TOTAL	5183.1		5379.1			
ANNUAL MEAN	14.6		15.3		27.2	
LOWEST DAILY MEAN	1.1	Aug 19	3.6	Jul 11	1.1	Aug 19 1999
INSTANTANEOUS PEAK STAGE			8.09	Mar 20	15.25	Apr 29 1997
INSTANTANEOUS LOW FLOW			1.7	Jul 11	.90*	Aug 18 1999

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

0214269560 KILLIAN CREEK NEAR MARIPOSA, NC--Continued



02142900 LONG CREEK NEAR PAW CREEK, NC

LOCATION.--Lat 35°19'42", long 80°54'35", Mecklenburg County, Hydrologic Unit 03050101, on right bank at upstream side of bridge on Secondary Road 2042, 600 ft downstream of McIntyre Creek, 1.2 mi upstream from Gutter Branch, and 3.6 mi north of Paw Creek.

DRAINAGE AREA.--16.4 mi^2.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 648.7 ft above sea level. Radio telemetry at station.

REMARKS.--Records poor. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for current water year and period of record affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	2.1	3.2	3.8	24	5.5	6.4	5.3	2.2	2.0	8.9	1.6
2	2.5	14	3.1	3.5	16	5.1	11	16	2.1	1.8	5.5	20
3	2.1	4.6	3.0	3.4	12	4.7	20	40	2.1	1.4	3.6	35
4	5.8	2.7	2.9	13	11	5.1	9.7	9.8	2.9	1.3	176	31
5	5.4	2.5	2.9	10	8.9	5.2	7.0	7.0	11	1.5	8.8	8.4
6	2.2	2.6	3.6	4.7	7.6	4.2	6.0	5.6	4.5	2.0	3.6	3.4
7	2.1	2.4	3.1	4.2	6.9	4.0	5.3	4.7	2.6	112	2.9	2.5
8	1.5	2.2	2.7	4.0	6.3	3.9	19	4.2	2.2	6.4	2.6	2.1
9	1.5	2.3	2.9	15	5.8	3.8	11	4.0	2.1	3.1	4.8	1.8
10	135	2.3	9.6	131	5.6	3.8	6.6	3.6	2.0	2.7	8.5	1.9
11	247	48	6.1	20	5.4	4.3	5.4	3.4	1.9	3.7	2.7	1.8
12	15	18	3.3	11	130	8.1	4.8	3.9	1.8	92	2.5	2.2
13	12	6.5	3.3	7.4	31	3.7	21	3.1	1.8	21	2.2	2.5
14	9.0	4.2	28	5.3	201	3.5	33	8.3	1.7	8.0	2.1	2.0
15	3.8	3.3	9.5	4.5	29	3.4	97	3.2	1.7	6.0	2.1	1.7
16	3.0	3.1	5.1	4.2	17	214	36	2.9	4.5	3.2	2.1	1.4
17	2.7	2.8	4.1	3.8	13	264	34	2.8	2.0	2.6	2.0	1.3
18	2.5	2.7	3.7	6.0	22	21	28	2.7	1.9	2.3	31	4.3
19	2.4	2.7	3.6	5.1	14	14	14	2.6	1.8	2.5	14	47
20	14	2.5	6.8	16	10	250	10	2.6	1.7	11	3.1	4.7
21	15	2.6	33	6.7	8.6	42	8.2	2.6	1.7	2.5	2.6	2.9
22	4.4	3.2	20	5.1	7.6	20	6.4	7.6	1.5	2.3	2.5	49
23	3.3	2.6	11	22	6.8	14	5.6	2.8	1.5	2.3	2.3	121
24	3.4	2.5	7.4	15	6.2	11	6.6	3.5	1.3	9.3	3.4	13
25	4.2	2.5	5.1	26	5.9	9.7	24	2.8	1.6	17	11	11
26	4.7	45	4.6	16	5.2	8.5	9.0	2.6	2.3	3.4	2.6	8.2
27	4.3	14	4.4	10	8.6	17	6.7	2.5	9.7	3.1	1.7	3.2
28	4.3	6.3	4.1	7.8	11	16	18	2.4	5.6	9.4	1.4	2.6
29	3.2	4.3	4.0	7.3	6.1	9.0	9.9	2.9	10	2.8	1.2	2.3
30	2.2	3.5	3.8	90	---	7.7	6.7	2.4	2.8	2.2	1.2	2.1
31	2.2	---	4.0	38	---	7.5	---	2.2	---	2.0	4.7	---
TOTAL	524.4	218.0	211.9	519.8	642.5	993.7	486.3	170.0	92.5	342.8	323.6	391.9
MEAN	16.9	7.27	6.84	16.8	22.2	32.1	16.2	5.48	3.08	11.1	10.4	13.1
MAX	247	48	33	131	201	264	97	40	11	112	176	121
MIN	1.5	2.1	2.7	3.4	5.2	3.4	4.8	2.2	1.3	1.3	1.2	1.3
CFSM	1.03	.44	.42	1.02	1.35	1.95	.99	.33	.19	.67	.64	.80
IN.	1.19	.49	.48	1.18	1.46	2.25	1.10	.39	.21	.78	.73	.89

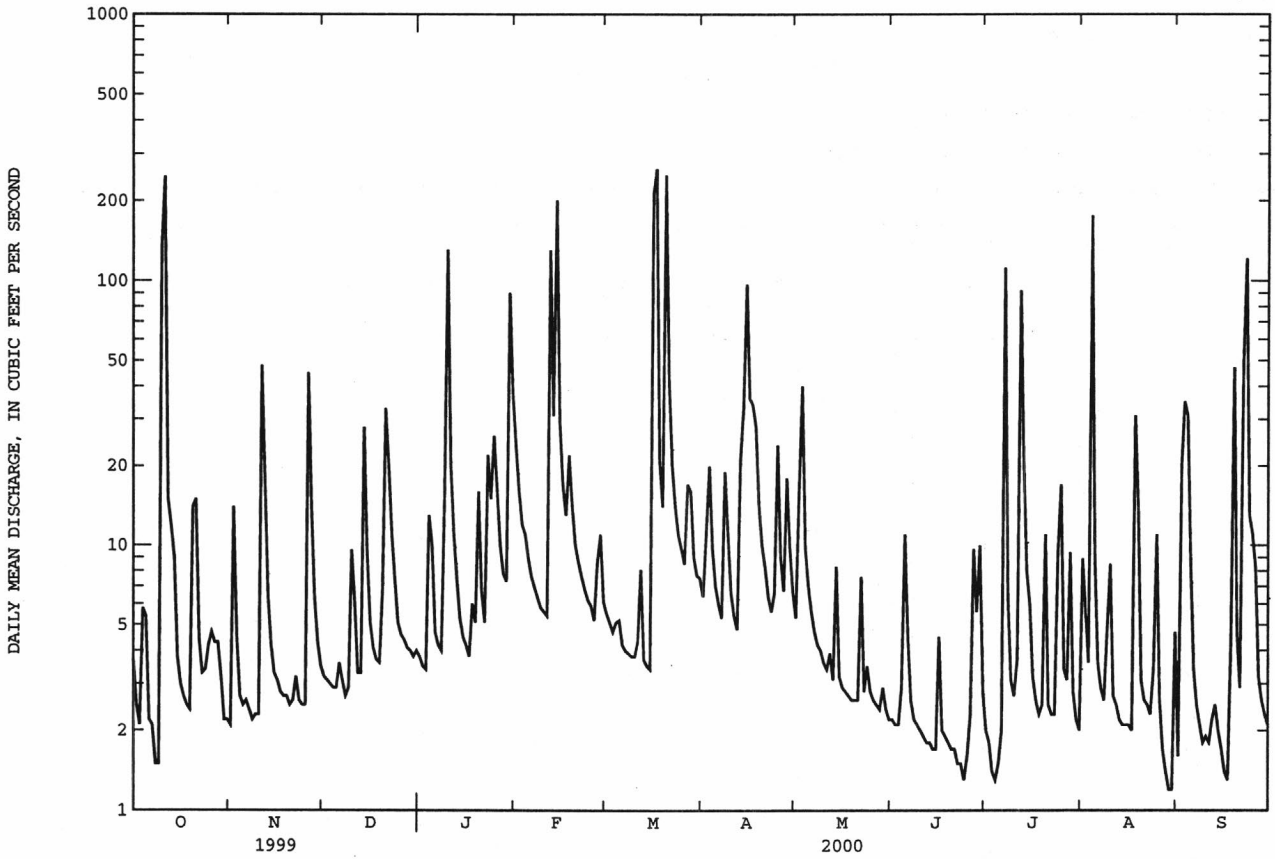
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

MEAN	14.6	14.7	19.2	30.5	34.3	34.9	20.0	16.1	11.7	8.53	9.64	8.22
MAX	70.8	91.3	59.5	74.4	78.4	86.8	44.3	101	66.5	58.4	59.0	66.2
(WY)	1991	1986	1984	1993	1979	1993	1987	1975	1982	1997	1967	1975
MIN	1.48	2.42	2.53	4.04	8.92	8.31	4.38	3.60	1.68	1.08	1.44	1.27
(WY)	1984	1982	1966	1981	1968	1999	1967	1981	1986	1986	1987	1986

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL TOTAL	3571.94		4917.4			
ANNUAL MEAN	9.79		13.4		18.6	
HIGHEST ANNUAL MEAN					36.2	1975
LOWEST ANNUAL MEAN					6.79	1981
HIGHEST DAILY MEAN	247	Oct 11	264	Mar 17	1600	Oct 9 1976
LOWEST DAILY MEAN	.48	Aug 19	1.2	Aug 29	.43	Oct 3 1986
ANNUAL SEVEN-DAY MINIMUM	.65	Aug 29	1.6	Jun 19	.49	Oct 2 1986
INSTANTANEOUS PEAK FLOW			1370	Mar 16	4300	Jun 18 1982
INSTANTANEOUS PEAK STAGE			10.51	Mar 16	13.45	Jul 23 1997
INSTANTANEOUS LOW FLOW			.90*	Jul 3	.35*	Sep 26 1986
ANNUAL RUNOFF (CFSM)	.60		.82		1.13	
ANNUAL RUNOFF (INCHES)	8.10		11.15		15.40	
10 PERCENT EXCEEDS	18		22		30	
50 PERCENT EXCEEDS	4.6		4.4		6.7	
90 PERCENT EXCEEDS	1.3		2.0		1.9	

* See REMARKS.

02142900 LONG CREEK NEAR PAW CREEK, NC--Continued



02142900 LONG CREEK NEAR PAW CREEK, NC--Continued

PRECIPITATION RECORDS

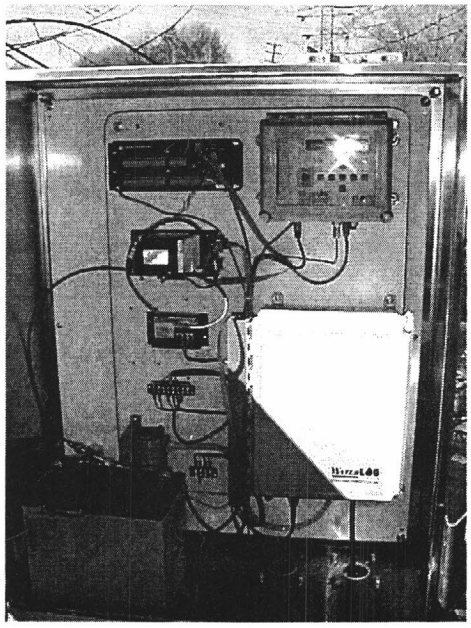
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.25
2	.00	.57	.00	.00	.00	.00	.29	.04	.00	.00	.04	.62
3	.00	.01	.00	.00	.00	.00	.21	.00	.03	.00	1.16	.11
4	.26	.00	.00	.44	.00	.02	.01	.00	.13	.05	.13	.15
5	.00	.00	.01	.00	.00	.00	.00	.00	.44	.04	.00	.00
6	.00	.00	.19	.00	.00	.00	.00	.00	.00	.03	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.60	.00	.00
8	.00	.00	.00	.05	.00	.00	.43	.00	.00	.00	.03	.01
9	.01	.00	.00	.52	.00	.00	.00	.00	.00	.00	.00	.00
10	2.45	.00	.30	.70	.00	.00	.00	.00	.00	.00	.69	.00
11	1.39	1.34	.00	.00	.01	.17	.00	.00	.00	.22	.00	.00
12	.00	.00	.00	.00	1.09	.00	.00	.00	.00	1.37	.00	.00
13	.31	.00	.11	.00	.24	.00	.59	.22	.00	.09	.00	.00
14	.00	.00	.50	.00	.58	.00	.81	.00	.00	.06	.00	.00
15	.00	.00	.01	.00	.00	.00	.59	.00	.33	.01	.00	.00
16	.00	.00	.00	.00	.01	2.03	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.13	.01	.10	.00	.02	.00	.00	.00
18	.00	.00	.00	.08	.14	.00	.00	.00	.10	.00	1.20	1.02
19	.07	.00	.10	.33	.00	.00	.00	.00	.01	.16	.00	.15
20	.51	.00	.07	.09	.00	1.31	.00	.00	.00	.00	.00	.00
21	.01	.08	.64	.00	.00	.00	.00	.18	.00	.00	.00	.09
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00	1.17
23	.00	.00	.00	---	.00	.00	.00	.05	.00	.34	.00	.61
24	.00	.00	.00	---	.00	.00	.48	.08	.00	.06	.31	.01
25	.00	.02	.00	---	.00	.00	.14	.01	.72	.42	.00	.19
26	.00	.93	.00	---	.00	.00	.00	.00	.57	.01	.00	.00
27	.00	.00	.00	---	.24	.21	.00	.00	.06	.51	.00	.00
28	.00	.00	.00	---	.01	.00	.35	.01	.71	.05	.00	.00
29	.00	.00	.00	---	.00	.00	.02	.11	.07	.01	.00	.00
30	.00	.00	.00	---	---	.03	.00	.00	.00	.00	.18	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.15	.05	---
TOTAL	5.01	2.96	1.93	3.41	2.45	3.79	4.02	0.70	3.19	5.18	3.99	4.38



Instrumentation at USGS gaging station at Stewart Creek
at State street at Charlotte.

0214291555 LONG CREEK NEAR RHYNE, NC

LOCATION.--Lat 35°18'03", long 80°55'24", 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 5.5 mi northwest of Rhyne.

DRAINAGE AREA.--31.49 mi^2.

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

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

REMARKS.--No estimated daily discharges. Records poor. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for current water year and period of record affected by regulation. Maximum discharge for current water year and period of record from rating curve extended above 650 ft^3/s. Minimum discharge for current water year also occurred on Sept. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.5	6.2	5.2	49	11	15	12	3.8	3.2	11	4.0
2	2.9	20	5.2	5.4	33	11	18	10	3.4	2.6	8.5	17
3	2.6	9.1	5.5	5.6	25	10	36	55	3.1	2.5	4.4	29
4	3.4	5.1	5.3	13	21	11	19	13	5.5	2.3	195	32
5	6.9	4.8	5.3	12	17	11	16	11	11	2.2	13	9.3
6	3.2	4.8	6.5	6.3	14	9.7	14	9.3	8.7	2.8	7.6	4.6
7	2.6	5.0	6.5	5.6	13	9.4	13	9.4	4.4	114	6.0	3.7
8	2.3	4.8	5.7	5.4	13	9.2	30	8.0	3.6	11	5.5	3.3
9	2.3	4.7	6.0	15	11	8.9	24	8.3	3.5	6.8	7.8	3.2
10	171	5.2	10	242	11	9.0	14	7.3	3.0	4.9	19	2.8
11	385	43	8.9	44	10	9.6	13	8.4	3.1	4.9	6.0	2.3
12	22	26	5.8	21	224	14	11	7.7	2.8	153	4.2	3.9
13	16	8.3	5.8	16	71	8.9	45	7.3	2.7	36	4.3	4.9
14	14	6.6	36	13	417	8.6	67	12	2.5	15	3.5	2.0
15	9.0	6.0	10	11	64	8.7	314	7.0	3.2	12	3.9	1.9
16	7.0	5.9	7.3	10	33	241	101	6.5	6.9	6.5	3.4	1.6
17	6.1	5.6	6.5	10	28	461	58	5.3	3.9	5.9	3.0	1.5
18	5.7	5.2	6.1	12	37	52	65	5.8	3.4	4.7	45	7.5
19	5.0	5.2	6.1	12	30	34	26	5.5	3.3	3.9	27	60
20	10	5.6	7.5	25	25	476	20	5.2	2.9	12	5.0	5.7
21	20	5.9	51	14	21	129	16	5.0	2.9	4.1	3.8	3.4
22	7.3	6.2	27	11	16	49	14	9.9	2.4	4.0	3.3	89
23	5.5	5.6	12	40	14	32	12	5.3	2.3	4.0	3.0	204
24	4.8	5.6	8.5	34	13	27	12	6.0	2.3	14	2.8	15
25	4.8	5.8	7.1	58	13	24	41	5.8	5.7	19	10	11
26	4.8	63	6.4	37	12	20	17	4.9	5.5	6.3	3.4	11
27	5.2	15	6.2	20	13	29	13	4.4	10	6.1	2.8	5.6
28	4.2	8.0	6.2	17	20	37	29	4.3	13	22	2.6	5.1
29	4.1	6.7	5.7	15	12	18	19	5.0	18	7.9	2.6	4.4
30	4.4	6.0	5.4	154	---	17	12	4.7	5.7	4.1	2.8	4.1
31	4.2	---	5.3	86	---	15	---	3.9	---	3.9	5.3	---
TOTAL	750.5	313.2	303.0	975.5	1280	1811.0	1104	273.2	152.5	501.6	425.5	552.8
MEAN	24.2	10.4	9.77	31.5	44.1	58.4	36.8	8.81	5.08	16.2	13.7	18.4
MAX	385	63	51	242	417	476	314	55	18	153	195	204
MIN	2.3	4.5	5.2	5.2	10	8.6	11	3.9	2.3	2.2	2.6	1.5
CFSM	.77	.33	.31	1.00	1.40	1.86	1.17	.28	.16	.51	.44	.59
IN.	.89	.37	.36	1.15	1.51	2.14	1.30	.32	.18	.59	.50	.65

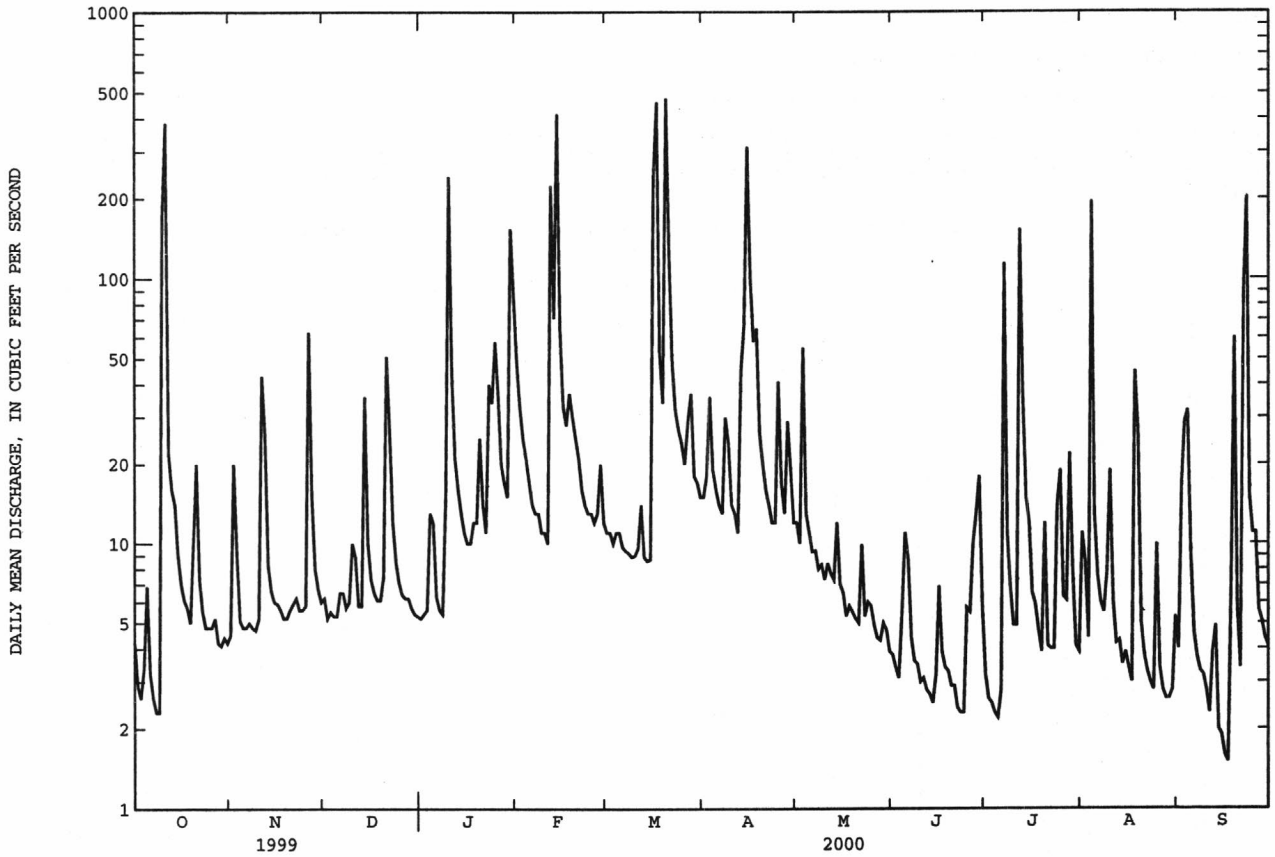
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	14.6	8.72	14.3	35.6	36.5	35.7	28.6	8.47	7.73	12.7	8.32	11.9
MAX	24.2	10.4	18.8	39.8	44.1	58.4	36.8	8.81	10.4	16.2	13.7	18.4
(WY)	2000	2000	1999	1999	2000	2000	2000	2000	1999	2000	2000	2000
MIN	5.01	6.99	9.77	31.5	28.7	13.0	20.3	8.14	5.08	9.27	2.92	5.41
(WY)	1999	1999	2000	2000	1999	1999	1999	1999	2000	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	5521.13		8442.8			
ANNUAL MEAN	15.1		23.1		18.5	
HIGHEST ANNUAL MEAN					23.1	2000
LOWEST ANNUAL MEAN					14.0	1999
HIGHEST DAILY MEAN	385	Oct 11	476	Mar 20	476	Mar 20 2000
LOWEST DAILY MEAN	.74	Sep 13	1.5	Sep 17	.74	Sep 13 1999
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 14	2.6	Sep 11	1.2	Aug 14 1999
INSTANTANEOUS PEAK FLOW			1310*	Mar 16	1310*	Mar 16 2000
INSTANTANEOUS PEAK STAGE			8.81	Mar 16	8.81	Mar 16 2000
INSTANTANEOUS LOW FLOW			1.4*	Sep 16	.25*	Aug 19 1999
ANNUAL RUNOFF (CFSM)	.48		.73		.59	
ANNUAL RUNOFF (INCHES)	6.52		9.97		7.99	
10 PERCENT EXCEEDS	25		40		30	
50 PERCENT EXCEEDS	6.6		8.0		7.2	
90 PERCENT EXCEEDS	2.3		3.2		2.8	

* See REMARKS.

0214291555 LONG CREEK NEAR RHYNE, NC--Continued



0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'24", long 80°58'29", Mecklenburg County, Hydrologic Unit 03050101, near right bank on downstream side of culvert at U.S. Highway 74, 0.7 mi downstream of Interstate Highway 85, and 2.5 mi northwest of airport in Charlotte.

DRAINAGE AREA.--10.8 mi^2.

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

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

REMARKS.--Records poor, except those above 200 ft^3/s, which are fair. Minimum discharge for current water year and period of record also occurred Oct. 8, 9, 10, and was affected by upstream construction.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	e1.8	e2.8	3.6	e17	3.5	8.3	4.9	.86	e.87	e3.5	6.9
2	1.8	e19	e2.7	3.5	13	3.3	8.1	4.3	.63	e.81	e2.1	11
3	1.6	e4.2	e2.6	3.5	9.0	3.0	8.9	4.0	.50	e.70	e1.5	16
4	1.6	e2.4	e2.6	12	7.6	2.9	7.0	3.9	2.9	e.51	e90	9.3
5	2.6	e2.3	e2.7	9.0	5.7	3.0	6.4	3.6	5.5	e.70	e3.3	2.8
6	.75	e2.3	e3.0	5.9	4.6	2.2	5.7	3.6	3.2	e.90	e1.7	1.8
7	.12	e2.1	e2.0	5.3	4.0	2.1	5.0	3.2	1.5	e58	e1.6	1.2
8	.12	e1.9	1.4	5.3	3.5	2.0	11	3.1	1.3	e1.5	e1.5	.85
9	.12	e2.0	1.3	11	3.2	2.2	5.0	2.9	1.1	e1.2	e2.0	.66
10	91	e2.0	7.4	70	3.0	2.0	4.2	10	1.0	e1.0	e3.2	.65
11	126	e33	4.7	13	2.7	3.7	3.6	7.1	.87	e1.3	e1.6	1.1
12	12	e15	3.0	6.0	56	5.6	3.0	3.2	.83	e35	e1.5	.93
13	16	e6.0	2.2	3.6	19	1.3	35	4.1	.80	e11.0	e1.4	.64
14	e11	e3.6	23	2.0	116	1.2	43	10	.69	e3.2	e1.3	.62
15	e3.0	e2.9	6.1	1.6	24	1.1	123	2.9	2.0	e2.2	e1.3	.64
16	e2.2	e2.7	3.8	1.6	13	115	39	2.3	5.3	e1.2	1.3	.65
17	e2.0	e2.5	3.2	1.4	9.6	59	29	2.6	.86	e.96	1.2	.84
18	e1.9	e2.4	3.2	2.4	19	16	18	2.0	2.2	e.80	e8.5	6.3
19	e1.8	e2.4	2.7	2.0	9.7	15	11	1.9	2.4	e.91	e5.4	37
20	e14	e2.2	4.3	7.2	6.9	151	7.8	1.8	1.0	e4.0	3.7	4.7
21	e13	e2.3	25	1.9	5.4	42	6.1	1.5	.72	e.91	3.4	4.1
22	e3.6	e2.8	14	1.4	4.8	17	4.7	2.7	.58	e.82	3.2	52
23	e2.5	e2.3	7.7	16	4.2	15	3.9	1.6	.55	e.76	3.1	79
24	e2.5	e2.2	6.0	8.3	3.8	14	5.4	2.7	.46	e3.6	3.0	17
25	e3.0	e2.2	5.2	27	3.5	13	18	1.7	4.8	e6.2	5.2	e7.0
26	e3.5	e33	4.6	e14	3.4	12	7.6	1.7	e3.2	e1.9	2.9	e5.0
27	e3.2	e13	4.3	9.7	6.1	18	6.1	1.4	e2.2	e1.7	2.8	e2.1
28	e3.2	e6.0	4.2	7.8	6.1	12	15	1.2	e2.3	e3.7	2.1	e1.7
29	e2.5	e3.8	4.0	6.9	3.7	11	8.0	1.3	e2.2	e1.0	.56	e1.5
30	e1.8	e3.0	3.7	62	---	9.7	5.6	1.1	e1.2	e.90	.31	e1.3
31	e1.6	---	3.6	32	---	9.0	---	1.1	---	e.79	5.8	---
TOTAL	333.01	183.3	167.0	356.9	387.5	567.8	462.4	99.4	53.65	149.04	169.97	275.28
MEAN	10.7	6.11	5.39	11.5	13.4	18.3	15.4	3.21	1.79	4.81	5.48	9.18
MAX	126	33	25	70	116	151	123	10	5.5	58	90	79
MIN	.12	1.8	1.3	1.4	2.7	1.1	3.0	1.1	.46	.51	.31	.62
CFSM	.99	.57	.50	1.07	1.24	1.70	1.43	.30	.17	.45	.51	.85
IN.	1.15	.63	.58	1.23	1.33	1.96	1.59	.34	.18	.51	.59	.95

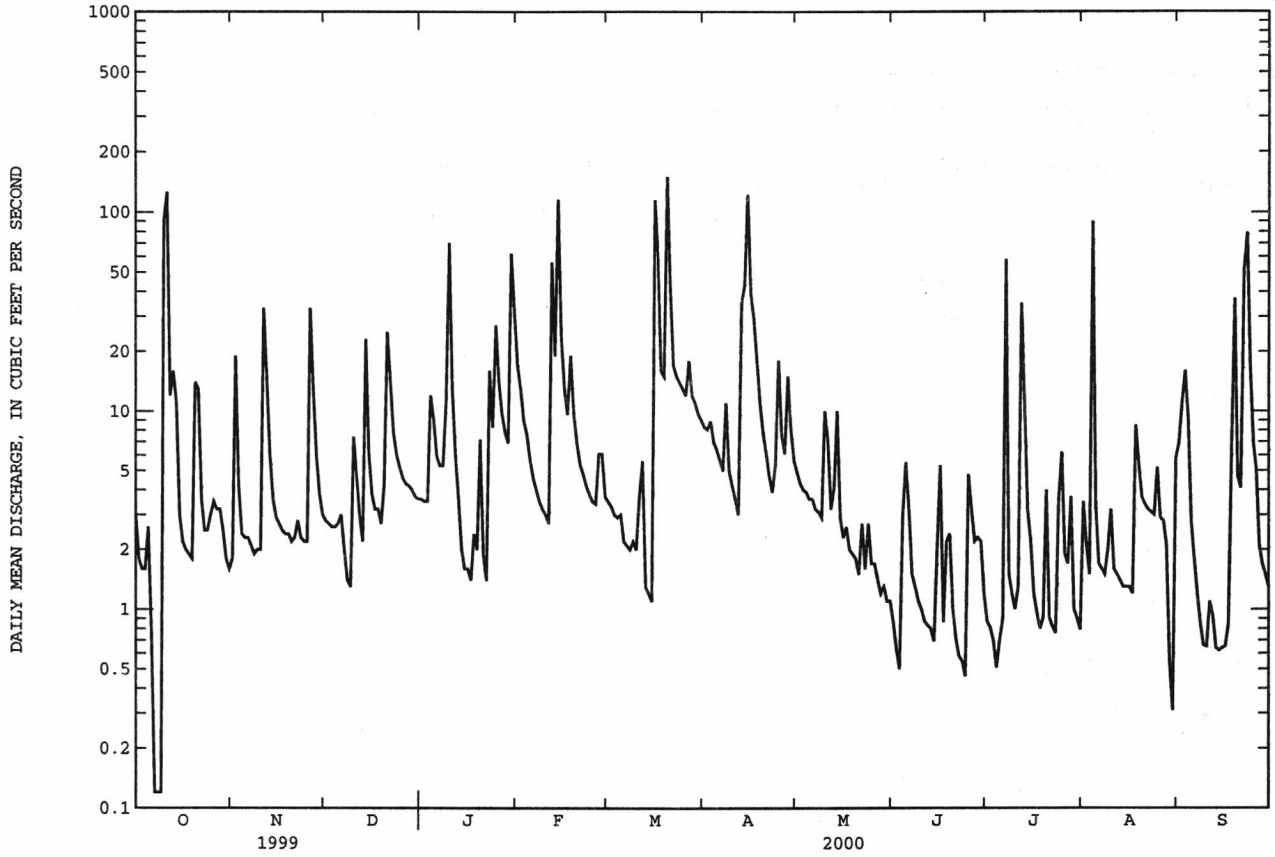
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	8.77	8.91	7.75	17.3	20.0	14.8	14.8	6.33	6.94	9.13	4.89	5.24
MAX	23.0	26.1	14.0	28.9	33.4	18.7	22.0	13.2	11.6	35.2	9.92	9.18
(WY)	1996	1996	1998	1998	1995	1998	1998	1995	1995	1997	1995	2000
MIN	1.67	2.96	3.63	10.8	9.65	4.54	5.18	3.21	1.79	2.11	1.21	2.22
(WY)	1999	1999	1995	1999	1999	1999	1995	2000	2000	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	2079.16		3205.25			
ANNUAL MEAN	5.70		8.76		10.3	
HIGHEST ANNUAL MEAN					13.6	1996
LOWEST ANNUAL MEAN					4.70	1999
HIGHEST DAILY MEAN	126	Oct 11	151	Mar 20	835	Jul 23 1997
LOWEST DAILY MEAN	.12	Oct 7	.12	Oct 7	.12	Oct 7 1999
ANNUAL SEVEN-DAY MINIMUM	.28	Aug 13	.75	Sep 10	.28	Aug 13 1999
INSTANTANEOUS PEAK FLOW			719	Mar 16	2740	Jul 23 1997
INSTANTANEOUS PEAK STAGE			9.01	Mar 16	9.77	Jul 23 1997
INSTANTANEOUS LOW FLOW			.12*	Oct 7	.12*	Oct 7 1999
ANNUAL RUNOFF (CFSM)	.53		.81		.96	
ANNUAL RUNOFF (INCHES)	7.16		11.04		13.02	
10 PERCENT EXCEEDS	12		17		19	
50 PERCENT EXCEEDS	2.7		3.2		3.7	
90 PERCENT EXCEEDS	.52		.90		1.2	

e Estimated.
* See REMARKS.

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



02143000 HENRY FORK NEAR HENRY RIVER, NC

LOCATION.--Lat 35°41'03", long 81°24'10", Catawba County, Hydrologic Unit 03050102, on left bank 325 ft downstream of bridge on Secondary Road 1124, at site of Old Link Ford, 1.2 mi downstream of Burke-Catawba County line, and 2 mi southeast of Henry River.
DRAINAGE AREA.--83.2 mi^2.

PERIOD OF RECORD.--July 1925 to November 1931, December 1941 to current year.

REVISED RECORDS.--WSP 952: 1928, 1930. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 891.0 ft above sea level. July 1925 to November 1931, at site 450 ft upstream at same 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 2,300 ft^3/s on basis of computation of peak flow over dam at Henry River; gage height: 29.2 ft. Minimum discharge for current water year also occurred Aug. 29, 30, 31.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known: 29.2 ft, Aug. 13, 1940, at former site, from floodmarks; discharge: 31,300 ft^3/s. The flood of July 16, 1916, reached a stage of about 23 ft at former site; discharge: 20,700 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	33	44	47	59	61	76	148	52	36	75	31
2	32	40	41	46	58	59	70	147	51	31	45	61
3	30	69	40	46	57	56	99	147	49	29	42	87
4	32	70	39	51	58	54	171	141	48	28	58	91
5	47	63	39	64	58	53	155	131	52	27	47	79
6	47	51	42	55	57	52	144	119	56	28	30	61
7	34	42	45	50	56	52	135	99	52	30	28	35
8	32	37	40	48	55	50	125	85	46	27	37	31
9	32	36	39	50	56	49	110	81	44	26	40	30
10	38	35	40	94	58	49	89	78	43	24	34	27
11	64	35	43	173	60	52	77	74	41	25	34	26
12	75	43	40	136	68	62	75	71	40	37	26	25
13	66	51	39	126	91	61	72	69	39	41	23	24
14	53	49	60	115	203	56	74	68	38	41	22	23
15	39	46	119	95	180	52	108	65	37	37	21	23
16	36	43	123	65	126	60	327	63	36	32	20	21
17	35	40	71	62	110	105	203	63	37	27	20	20
18	34	36	61	64	104	127	177	63	37	25	19	21
19	33	35	56	64	100	119	154	59	35	24	20	32
20	35	35	59	65	95	1000	147	57	37	23	23	37
21	46	35	66	67	88	394	139	68	38	22	24	28
22	48	35	73	59	81	194	129	83	37	22	25	29
23	42	35	71	60	75	144	116	78	35	28	23	43
24	36	37	64	61	69	122	105	71	32	51	21	61
25	34	44	59	60	65	115	130	80	31	64	21	48
26	34	80	54	56	63	110	148	86	31	54	22	37
27	34	131	52	e51	61	108	156	75	31	38	21	28
28	33	122	51	e51	64	107	178	65	31	49	20	27
29	32	101	49	e50	63	102	237	64	36	53	19	26
30	32	54	48	56	---	94	174	59	41	45	19	25
31	33	---	47	61	---	85	---	53	---	63	19	---
TOTAL	1247	1563	1714	2148	2338	3804	4100	2610	1213	1087	898	1137
MEAN	40.2	52.1	55.3	69.3	80.6	123	137	84.2	40.4	35.1	29.0	37.9
MAX	75	131	123	173	203	1000	327	148	56	64	75	91
MIN	30	33	39	46	55	49	70	53	31	22	19	20
CFSM	.48	.63	.66	.83	.97	1.47	1.64	1.01	.49	.42	.35	.46
IN.	.56	.70	.77	.96	1.05	1.70	1.83	1.17	.54	.49	.40	.51

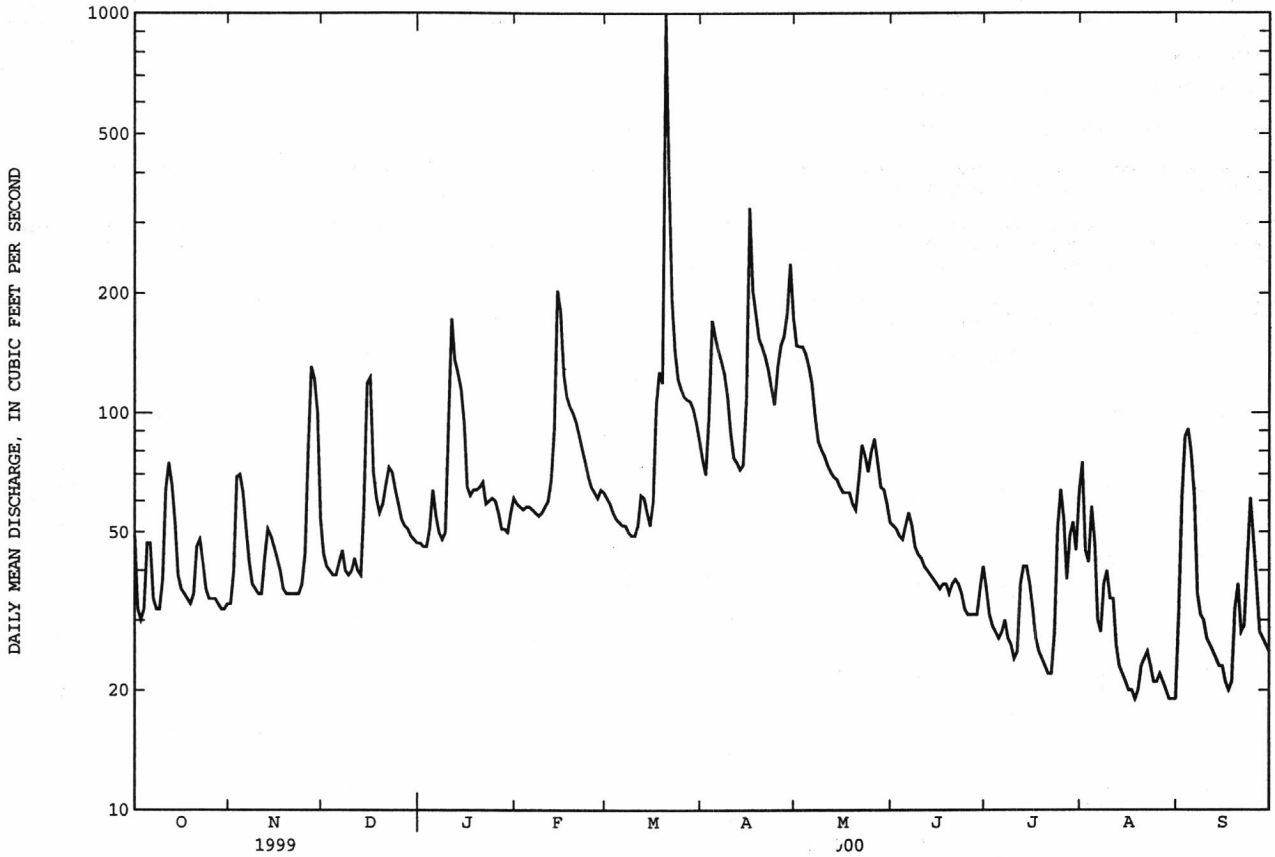
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2000@, BY WATER YEAR (WY)

MEAN	108	104	126	155	188	206	185	139	117	89.2	98.2	92.4
MAX	562	392	276	380	473	583	470	322	392	203	554	594
(WY)	1930	1978	1984	1996	1960	1975	1983	1984	1947	1949	1928	1945
MIN	25.6	34.8	31.1	32.3	50.0	69.7	61.6	44.8	34.4	34.9	26.5	25.4
(WY)	1927	1932	1956	1956	1931	1985	1967	1927	1926	1986	1999	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1926 - 2000@	
ANNUAL TOTAL	27519		23859			
ANNUAL MEAN	75.4		65.2		134	
HIGHEST ANNUAL MEAN					221	1993
LOWEST ANNUAL MEAN					59.7	1927
HIGHEST DAILY MEAN	465	Apr 30	1000	Mar 20	10100	Oct 2 1929
LOWEST DAILY MEAN	18	Sep 18	19	Aug 18	4.0	Nov 15 1942
ANNUAL SEVEN-DAY MINIMUM	19	Sep 20	20	Aug 25	14	Jul 18 1926
INSTANTANEOUS PEAK FLOW			2510	Mar 20	15300*	Oct 2 1929
INSTANTANEOUS PEAK STAGE			6.57	Mar 20	18.71	Oct 12 1990
INSTANTANEOUS LOW FLOW			19*	Aug 18	3.0	Dec 20 1942
ANNUAL RUNOFF (CFSM)	.91		.78		1.61	
ANNUAL RUNOFF (INCHES)	12.30		10.67		21.94	
10 PERCENT EXCEEDS	140		122		219	
50 PERCENT EXCEEDS	60		51		93	
90 PERCENT EXCEEDS	24		26		44	

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

02143000 HENRY FORK NEAR HENRY RIVER, NC--Continued



02143040 JACOB FORK AT RAMSEY, NC

LOCATION.--Lat 35°35'26", long 81°34'02", Burke County, Hydrologic Unit 03050102, on left bank 16 ft downstream of bridge on Secondary Road 1924, 0.6 mi downstream of Queens Creek, and 0.6 mi north of Ramsey.

DRAINAGE AREA.--25.7 mi^2

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 sea level. 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 3,400 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge for period of record also occurred Aug. 19. Minimum discharge for current water year also occurred July 12.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.9	14	8.8	18	20	20	57	18	10	13	11
2	8.5	39	13	8.5	19	20	25	46	16	8.7	12	55
3	7.7	24	12	8.5	18	19	107	47	15	7.9	28	56
4	13	15	12	17	20	18	97	37	16	7.3	32	30
5	16	12	12	19	19	18	66	32	23	7.1	20	19
6	10	11	21	14	18	17	47	29	21	7.7	13	14
7	8.9	11	16	13	18	16	36	26	16	7.1	11	12
8	8.4	9.8	14	12	20	16	35	24	15	6.2	9.8	11
9	8.4	9.5	13	18	21	16	29	22	14	5.9	9.1	9.6
10	20	9.4	15	178	23	16	25	21	14	5.5	10	8.4
11	72	28	15	116	27	21	23	18	13	5.1	9.3	8.0
12	25	42	13	51	84	22	22	17	12	29	7.7	7.5
13	17	22	14	35	103	17	25	18	12	16	7.3	7.2
14	14	16	114	27	154	16	28	18	12	11	6.9	7.0
15	12	14	54	22	103	16	115	14	11	9.9	6.8	6.8
16	11	12	26	21	60	62	247	14	12	8.0	6.4	6.4
17	10	11	16	19	42	129	102	13	13	6.8	6.1	6.3
18	9.7	11	11	22	35	58	73	13	12	6.4	7.1	7.1
19	9.1	11	8.7	20	33	39	52	12	12	6.3	9.0	16
20	12	11	8.7	26	28	493	42	12	12	6.0	7.5	9.4
21	14	11	14	22	25	181	38	14	13	5.6	9.3	11
22	11	10	19	21	23	88	34	17	11	7.7	8.1	12
23	9.9	10	17	e20	22	57	29	12	10	15	8.0	38
24	9.5	12	15	e20	22	43	39	23	9.3	22	6.9	16
25	9.2	23	13	e19	21	37	131	40	8.9	13	7.0	11
26	9.1	114	12	e19	20	33	111	19	8.9	11	8.5	9.8
27	8.8	51	12	e18	23	30	71	16	12	14	7.1	8.6
28	8.7	26	11	e17	26	29	123	17	10	21	6.8	8.2
29	8.3	19	10	16	21	26	138	19	13	12	6.6	8.1
30	8.5	15	9.6	20	---	23	81	18	12	11	6.2	8.1
31	8.5	---	9.0	19	---	22	---	18	---	33	8.4	---
TOTAL	408.2	618.6	564.0	866.8	1066	1618	2011	703	397.1	343.2	314.9	438.5
MEAN	13.2	20.6	18.2	28.0	36.8	52.2	67.0	22.7	13.2	11.1	10.2	14.6
MAX	72	114	114	178	154	493	247	57	23	33	32	56
MIN	7.7	8.9	8.7	8.5	18	16	20	12	8.9	5.1	6.1	6.3
CFSM	.51	.80	.71	1.09	1.43	2.03	2.61	.88	.52	.43	.40	.57
IN.	.59	.90	.82	1.25	1.54	2.34	2.91	1.02	.57	.50	.46	.63

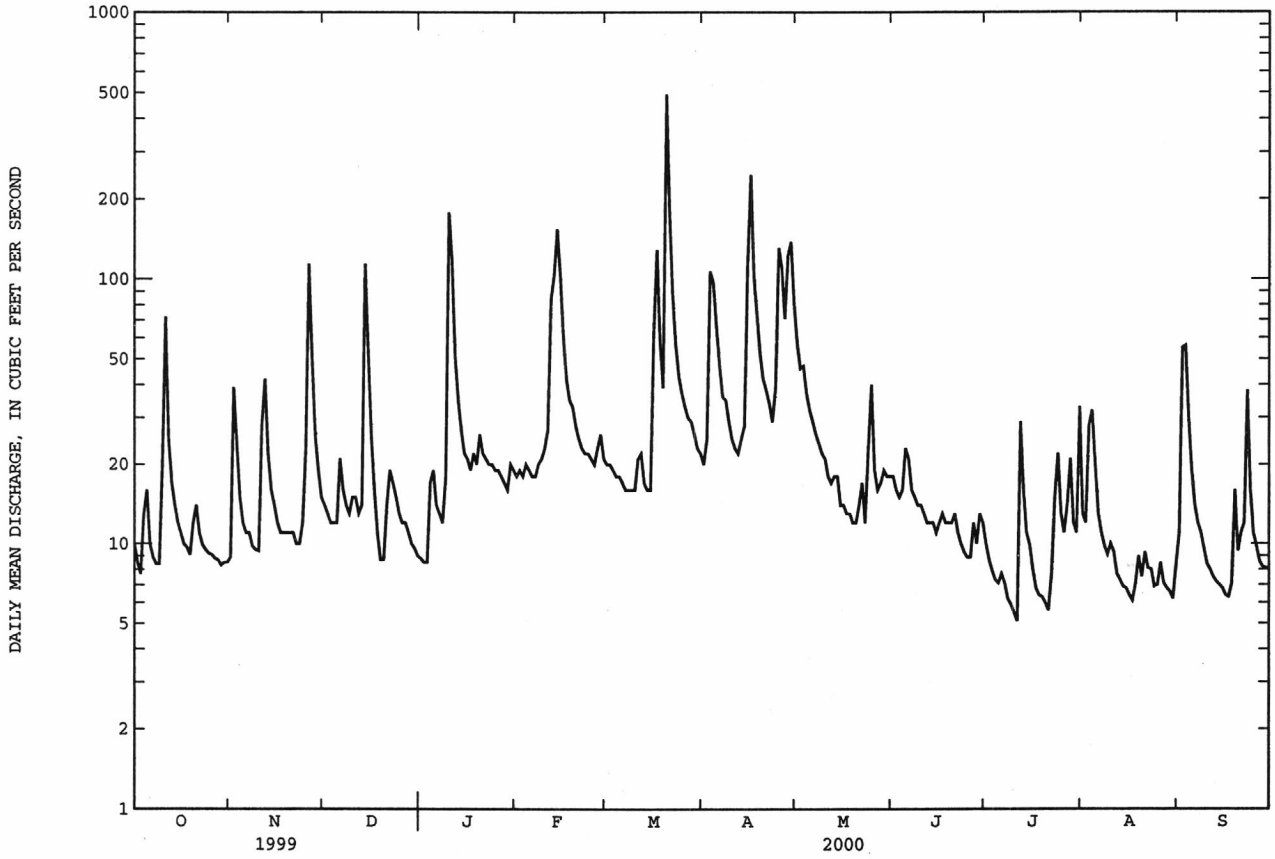
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	41.3	41.8	47.4	60.1	67.6	77.3	68.7	53.2	41.8	34.0	33.2	28.2
MAX	154	130	92.6	131	134	177	157	109	82.3	72.7	152	102
(WY)	1965	1978	1984	1993	1966	1975	1983	1984	1972	1985	1970	1989
MIN	11.2	12.7	14.8	20.9	27.9	27.4	22.6	19.9	11.9	9.23	6.39	9.07
(WY)	1994	1982	1989	1981	1986	1988	1967	1988	1988	1988	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	8169.0		9349.3			
ANNUAL MEAN	22.4		25.5		49.5	
HIGHEST ANNUAL MEAN					80.8	1993
LOWEST ANNUAL MEAN					22.7	1999
HIGHEST DAILY MEAN	283	Apr 30	493	Mar 20	1730	Nov 6 1977
LOWEST DAILY MEAN	3.7	Aug 19	5.1	Jul 11	3.7	Aug 19 1999
ANNUAL SEVEN-DAY MINIMUM	4.1	Aug 13	6.4	Jul 5	4.1	Aug 13 1999
INSTANTANEOUS PEAK FLOW			1190	Mar 20	7220*	Oct 17 1975
INSTANTANEOUS PEAK STAGE			7.09	Mar 20	19.74	Oct 17 1975
INSTANTANEOUS LOW FLOW			4.6*	Jul 11	3.3*	Aug 18 1999
ANNUAL RUNOFF (CFSM)	.87		.99		1.92	
ANNUAL RUNOFF (INCHES)	11.82		13.53		26.15	
10 PERCENT EXCEEDS	42		51		85	
50 PERCENT EXCEEDS	16		16		33	
90 PERCENT EXCEEDS	5.8		7.8		15	

e Estimated.
* See REMARKS.

02143040 JACOB FORK AT RAMSEY, NC--Continued



02143500 INDIAN CREEK NEAR LABORATORY, NC

LOCATION.--Lat 35°25'20", long 81°15'52", Lincoln County, Hydrologic Unit 03050102, on left bank 250 ft upstream from remains of Rudisill Mill dam, 0.5 mi upstream from bridge on Secondary Road 1252, 1.5 mi south of Laboratory, 1.5 mi upstream from mouth, and 3.5 mi south of Lincolnton.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WDR NC-71-1: 1970(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 736 ft above sea level, by barometer. Satellite telemetry at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak discharge of flood in October 1929 was 9,920 ft^3/s; flood in July 1916, 7,840 ft^3/s; flood in August 1940, 6,000 ft^3/s. Discharge based on computation of peak flow over dam 1 mi downstream, using floodmarks and information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	25	32	61	47	48	80	29	19	16	10
2	16	25	25	30	54	46	50	69	28	16	14	28
3	11	29	25	31	52	44	124	94	25	14	13	41
4	16	22	25	35	50	45	96	70	30	15	16	25
5	25	22	24	43	48	44	67	60	33	12	16	26
6	16	19	35	31	44	43	57	57	40	13	14	16
7	15	21	33	31	43	42	54	52	29	16	13	13
8	17	22	28	31	43	42	55	48	27	15	12	14
9	17	21	27	40	42	41	55	46	26	13	11	14
10	32	22	29	523	42	42	49	44	24	10	15	12
11	236	22	31	210	42	45	47	40	23	9.5	14	11
12	56	30	27	97	88	59	45	40	24	12	10	12
13	30	25	27	71	93	44	49	38	21	28	8.8	10
14	27	23	59	55	264	40	52	56	22	20	8.8	11
15	23	23	e52	49	131	41	142	37	24	14	8.6	9.9
16	22	21	e40	46	89	65	244	36	35	11	7.8	9.4
17	21	23	e36	42	70	194	134	37	26	8.7	8.1	8.1
18	21	22	e34	47	64	93	187	36	24	9.5	7.3	8.8
19	19	22	e32	46	62	71	89	35	20	9.2	9.4	24
20	23	22	e40	68	55	756	72	33	23	11	8.8	14
21	32	23	e50	57	52	447	65	34	23	7.2	11	12
22	24	24	69	48	51	153	59	41	22	8.1	10	13
23	22	23	48	e46	49	105	54	37	20	17	9.5	45
24	20	23	38	e45	49	83	54	37	19	78	8.3	30
25	20	25	37	e44	48	70	129	53	17	27	11	29
26	20	51	35	e42	46	63	90	34	17	23	15	26
27	20	49	34	e40	53	59	72	33	24	15	13	16
28	20	32	32	e40	61	59	292	31	20	44	8.5	13
29	20	27	33	44	49	51	199	34	20	138	9.2	13
30	21	25	30	56	---	51	105	31	23	31	8.6	15
31	21	---	31	70	---	50	---	30	---	17	10	---
TOTAL	903	758	1091	2090	1895	3035	2835	1403	738	681.2	345.7	529.2
MEAN	29.1	25.3	35.2	67.4	65.3	97.9	94.5	45.3	24.6	22.0	11.2	17.6
MAX	236	51	69	523	264	756	292	94	40	138	16	45
MIN	11	19	24	30	42	40	45	30	17	7.2	7.3	8.1
CFSM	.42	.37	.51	.97	.94	1.41	1.37	.65	.36	.32	.16	.25
IN.	.49	.41	.59	1.12	1.02	1.63	1.52	.75	.40	.37	.19	.28

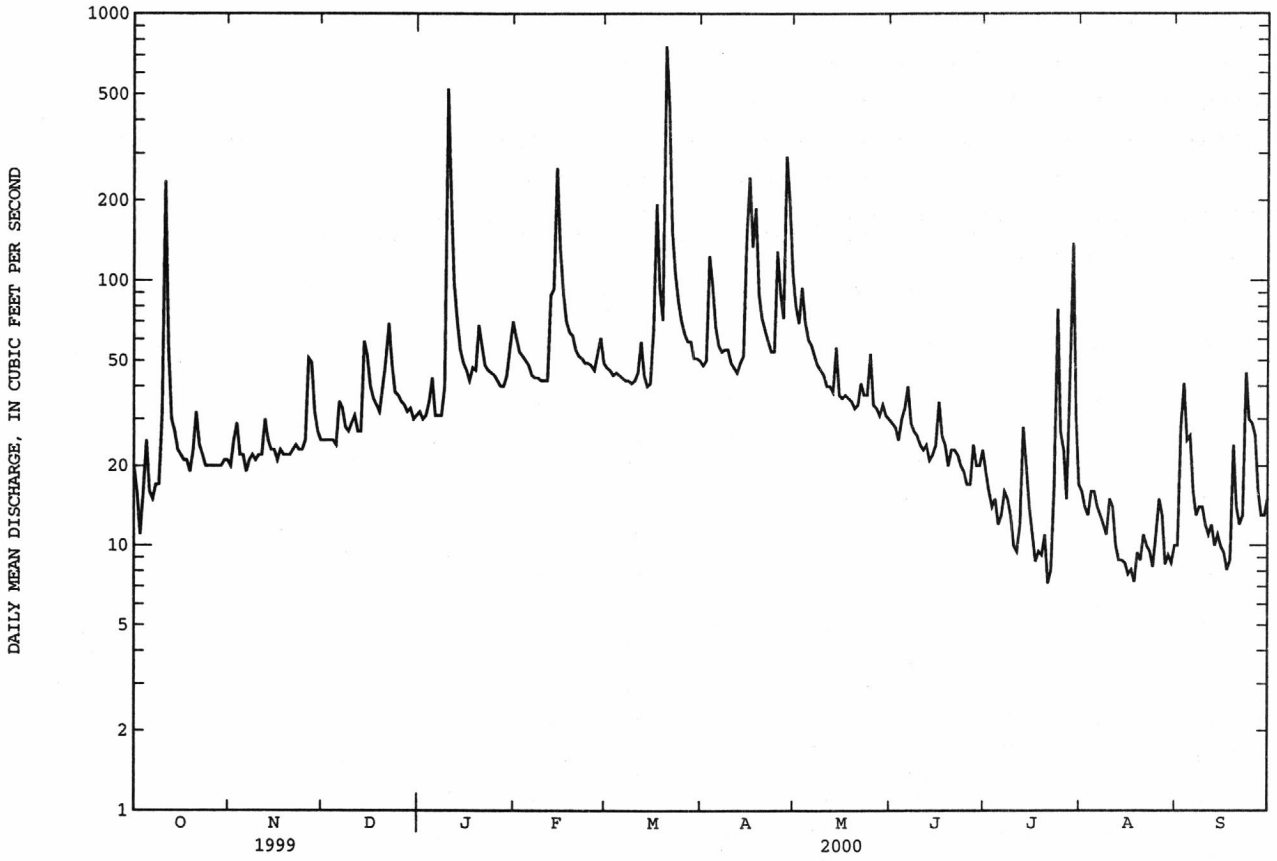
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	68.3	66.1	89.8	121	139	153	118	87.5	72.9	51.5	53.8	44.0
MAX	324	272	236	313	309	424	301	250	165	130	275	155
(WY)	1965	1958	1968	1978	1960	1952	1958	1984	1962	1964	1970	1959
MIN	8.30	19.2	26.0	25.8	44.0	59.8	38.1	27.6	11.8	12.7	11.2	8.62
(WY)	1955	1955	1956	1956	1986	1986	1986	1986	1986	1986	2000	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	17112.7		16304.1			
ANNUAL MEAN	46.9		44.5		88.5	
HIGHEST ANNUAL MEAN					145	1993
LOWEST ANNUAL MEAN					40.4	1988
HIGHEST DAILY MEAN	708	Apr 30	756	Mar 20	4350	Aug 10 1970
LOWEST DAILY MEAN	6.0	Aug 19	7.2	Jul 21	2.1	Jul 20 1986
ANNUAL SEVEN-DAY MINIMUM	7.1	Aug 13	8.4	Aug 13	3.1	Jul 16 1986
INSTANTANEOUS PEAK FLOW			1230	Mar 20	8450	Aug 10 1970
INSTANTANEOUS PEAK STAGE			4.30	Mar 20	10.61	Aug 10 1970
INSTANTANEOUS LOW FLOW			5.9	Aug 18	1.7	Jul 21 1986
ANNUAL RUNOFF (CFSM)	.68		.64		1.28	
ANNUAL RUNOFF (INCHES)	9.20		8.76		17.38	
10 PERCENT EXCEEDS	75		70		148	
50 PERCENT EXCEEDS	33		31		56	
90 PERCENT EXCEEDS	11		11		24	

e Estimated.

02143500 INDIAN CREEK NEAR LABORATORY, NC--Continued



0214399575 LONG CREEK TRIBUTARY AT HEADWATERS NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'12", long 81°16'42", Gaston County, Hydrologic Unit 03050102, on left bank at headwaters, 1.4 mi north of Bessemer City, NC.

DRAINAGE AREA.--0.16 mi^2.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 830 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record from floodmark inside of stilling well. No flow also occurred Aug. 14-19, 21, 22, 1999, Aug. 15-18, 20, 23, 24, 2000.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 19, 1993 reached a stage of 3.11 ft, from floodmark; discharge, 120 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.03	.03	.04	.17	.06	.08	.11	.05	.03	.04	.17
2	.03	.15	.03	.04	.12	.06	.08	.10	.05	.02	.03	.68
3	.03	.04	.03	.04	.09	.06	.10	.13	.06	.02	.03	.77
4	.11	.03	.03	.06	.08	.06	.09	.10	.07	.02	.03	.07
5	.03	.03	.04	.04	.08	.06	.08	.09	.35	.02	.03	.05
6	.03	.03	.34	.05	.08	.06	.08	.09	.06	.02	.02	.04
7	.03	.03	.04	.07	.07	.06	.07	.09	.06	.05	.02	.03
8	.02	.03	.03	.04	.06	.06	.14	.09	.06	.02	.02	.04
9	.02	.03	.03	.19	.06	.07	.16	.08	.05	.02	.01	.03
10	1.1	.03	.05	1.6	.06	.08	.11	.08	.05	.01	.04	.02
11	3.8	.03	.03	.11	.06	.11	.09	.08	.05	.01	.01	.02
12	.06	.03	.03	.06	1.1	.08	.09	.08	.04	.05	.01	.02
13	.05	.03	.05	.06	.13	.08	.26	.20	.04	.04	.01	.02
14	.04	.03	.33	.05	1.4	.08	.33	.10	.04	.03	.01	.01
15	.04	.03	.04	.05	.20	.08	2.0	.08	.09	.02	.00	.02
16	.03	.03	.03	.05	.05	2.2	.25	.08	.06	.01	.00	.01
17	.03	.03	.03	.05	.06	.44	.15	.08	.05	.01	.00	.01
18	.03	.02	.03	.07	.06	.10	.12	.08	.04	.01	.00	.11
19	.03	.02	.03	.06	.06	.06	.10	.08	.04	.01	.01	.08
20	.07	.02	.03	.10	.05	6.7	.08	.07	.04	.01	.00	.02
21	.04	.02	.36	.06	.05	.17	.07	.08	.04	.01	.01	.03
22	.03	.02	.08	.06	.05	.09	.06	.07	.04	.01	.01	.14
23	.03	.02	.06	.20	.05	.10	.06	.07	.03	.01	.00	.50
24	.03	.02	.06	.11	.05	.10	.19	.09	.03	.02	.00	.03
25	.03	.02	.05	.16	.06	.09	.05	.07	.03	.10	.01	.09
26	.03	.15	.05	.09	.06	.08	.05	.07	.03	.02	.13	.03
27	.03	.03	.05	.07	.07	.11	.07	.06	.03	.41	.01	.02
28	.03	.03	.04	.06	.08	.13	.61	.06	.03	.05	.01	.02
29	.03	.03	.04	.08	.07	.09	.15	.06	.04	.02	.01	.02
30	.03	.03	.04	.65	---	.08	.11	.06	.03	.02	.01	.02
31	.03	---	.04	.30	---	.08	---	.06	---	.02	.01	---
TOTAL	5.95	1.07	2.15	4.67	4.58	11.68	5.88	2.64	1.68	1.12	0.53	3.12
MEAN	.19	.036	.069	.15	.16	.38	.20	.085	.056	.036	.017	.10
MAX	3.8	.15	.36	1.6	1.4	6.7	2.0	.20	.35	.41	.13	.77
MIN	.02	.02	.03	.04	.05	.06	.05	.06	.03	.01	.00	.01
CFSM	1.20	.22	.43	.94	.99	2.35	1.23	.53	.35	.23	.11	.65
IN.	1.38	.25	.50	1.09	1.06	2.72	1.37	.61	.39	.26	.12	.73

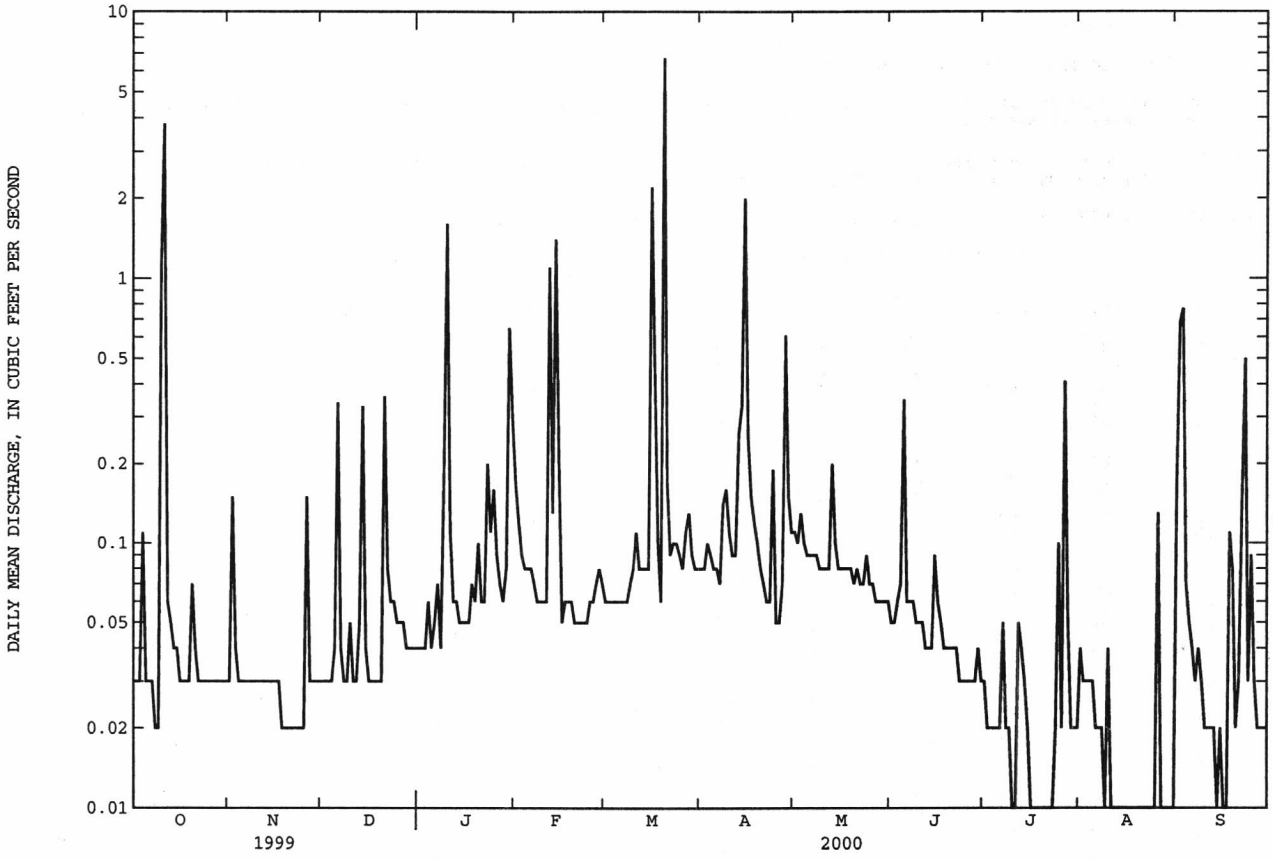
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	.13	.11	.11	.31	.28	.21	.13	.084	.14	.081	.13	.068
MAX	.38	.42	.24	.64	.43	.38	.20	.12	.43	.13	.34	.10
(WY)	1996	1996	1998	1998	1997	2000	2000	1995	1995	1999	1995	2000
MIN	.025	.036	.069	.14	.15	.10	.052	.046	.056	.036	.017	.035
(WY)	1994	1999	2000	1994	1994	1999	1995	1994	2000	2000	2000	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	41.74		45.07			
ANNUAL MEAN	.11		.12		.15	
HIGHEST ANNUAL MEAN					.21	1998
LOWEST ANNUAL MEAN					.10	1999
HIGHEST DAILY MEAN	3.8	Oct 11	6.7	Mar 20	9.0	Aug 27 1995
LOWEST DAILY MEAN	.00	Aug 13	.00	Aug 15	.00	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 13	.00	Aug 14	.00	Aug 13 1999
INSTANTANEOUS PEAK FLOW			52	Mar 20	119	Apr 28 1997
INSTANTANEOUS PEAK STAGE			2.53	Mar 20	3.10*	Apr 28 1997
INSTANTANEOUS LOW FLOW			.00*	Aug 15	.00*	Aug 13 1999
ANNUAL RUNOFF (CFSM)	.71		.77		.93	
ANNUAL RUNOFF (INCHES)	9.70		10.48		12.63	
10 PERCENT EXCEEDS	.12		.15		.19	
50 PERCENT EXCEEDS	.05		.05		.06	
90 PERCENT EXCEEDS	.02		.02		.02	

* See REMARKS.

0214399575 LONG CREEK TRIBUTARY AT HEADWATERS NEAR BESSEMER CITY, NC--Continued



0214399580 LONG CREEK TRIBUTARY BELOW HEADWATERS NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'20", long 81°16'32", Gaston County, Hydrologic Unit 03050102, on left bank downstream end of culvert, 0.3 mi below headwaters and 1.6 mi north of Bessemer City, NC.

DRAINAGE AREA.--0.22 mi^2.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 805 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record from high-water mark in gage well. Maximum discharge for period of record from rating curve extended above 549 ft^3/s. No flow also occurred Aug. 17-22, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 19, 1993 reached a stage of 5.29 ft, from floodmark; discharge, 549 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.04	.03	.05	.17	.09	.10	.12	.08	.06	e.10	e.30
2	.03	.23	.03	.05	.11	.09	.13	.10	.08	.06	e.08	e.80
3	.03	.03	.03	.05	.10	.09	.20	.19	.08	.06	e.07	e.90
4	.10	.03	.03	.06	.10	.09	.14	.12	.09	.05	e.07	e.30
5	.03	.03	.03	.04	.10	.09	.14	.10	.56	.06	e.06	e.07
6	.03	.03	.57	.05	.10	.09	.14	.10	.08	.06	e.05	e.05
7	.03	.03	.06	.06	.10	.10	.14	.10	.08	.09	e.05	e.03
8	.03	.03	.04	.05	.10	.10	.23	.10	.08	.06	e.04	e.05
9	.03	.03	.03	.27	.10	.10	.14	.10	.08	.05	e.03	e.04
10	2.1	.03	.06	3.1	.08	.09	.14	.10	.07	.05	e.07	e.03
11	2.5	.03	.04	.09	.06	.12	.14	.10	.07	.05	e.03	e.03
12	.07	.03	.03	.08	1.7	.09	.16	.10	.07	.09	e.02	e.03
13	.06	.03	.05	.08	.17	.09	.43	.27	.07	.08	e.02	e.03
14	.05	.03	.50	.07	2.5	.09	.46	.11	.07	.07	e.02	e.02
15	.04	.03	.05	.06	.11	.09	4.1	.10	.12	.06	e.01	e.03
16	.04	.03	.04	.06	.09	3.8	.30	.09	.08	.06	e.01	.03
17	.05	.03	.04	.06	.09	.38	.14	.09	.08	.05	e.01	.03
18	.05	.03	.04	.08	.10	.11	.14	.09	.07	.05	e.01	.15
19	.05	.03	.04	.07	.09	.10	.13	.09	.08	.04	e.02	.08
20	.08	.03	.05	.12	.09	7.2	.13	.09	.08	.04	e.02	.03
21	.04	.03	.52	.07	.08	.26	.12	.09	.07	.04	e.02	.03
22	.04	.03	.07	.07	.08	.13	.10	.08	.07	.05	e.02	.19
23	.04	.03	.06	.23	.09	.10	.10	.08	.07	.06	e.01	1.2
24	.04	.03	.05	.10	.09	.10	.41	.10	.07	.06	e.02	.03
25	.04	.03	.05	.16	.09	.10	.19	.08	.07	.16	e.02	.10
26	.04	.23	.05	.09	.09	.10	.15	.08	.06	.07	e.20	.03
27	.04	.03	.05	.08	.15	.32	.14	.08	.07	.87	e.02	.03
28	.04	.03	.05	.08	.08	.11	1.2	.08	.07	.10	e.02	.03
29	.04	.03	.05	.10	.08	.10	.14	.08	.08	.08	e.02	.03
30	.04	.03	.05	.99	---	.10	.14	.08	.07	.08	e.02	.03
31	.04	---	.05	.34	---	.10	---	.08	---	.08	e.03	---
TOTAL	5.87	1.31	2.84	6.86	6.89	14.52	10.32	3.17	2.77	2.84	1.19	4.73
MEAN	.19	.044	.092	.22	.24	.47	.34	.10	.092	.092	.038	.16
MAX	2.5	.23	.57	3.1	2.5	7.2	4.1	.27	.56	.87	.20	1.2
MIN	.03	.03	.03	.04	.06	.09	.10	.08	.06	.04	.01	.02
CFSM	.86	.20	.42	1.01	1.08	2.13	1.56	.46	.42	.42	.17	.72
IN.	.99	.22	.48	1.16	1.17	2.46	1.75	.54	.47	.48	.20	.80

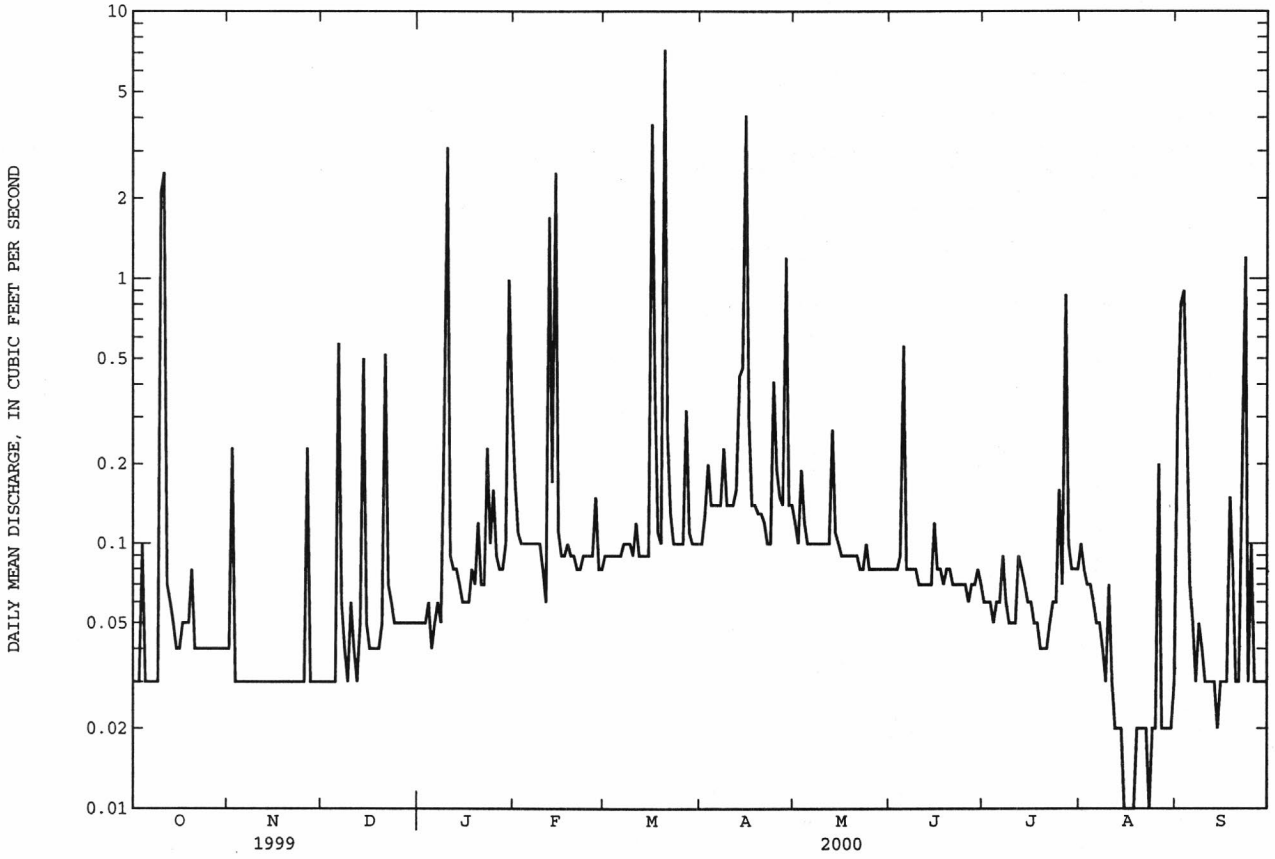
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	.22	.22	.18	.47	.44	.33	.29	.13	.23	.14	.24	.13
MAX	.80	.91	.38	.77	.74	.54	.80	.29	.83	.24	.70	.25
(WY)	1996	1996	1998	1995	1997	1998	1997	1995	1995	1994	1994	1995
MIN	.040	.037	.092	.22	.20	.15	.070	.075	.092	.092	.030	.051
(WY)	1999	1999	2000	2000	1999	1999	1995	1996	2000	2000	1997	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	49.59		63.31			
ANNUAL MEAN	.14		.17		.25	
HIGHEST ANNUAL MEAN					.35	1995
LOWEST ANNUAL MEAN					.12	1999
HIGHEST DAILY MEAN	2.5	Jan 3	7.2	Mar 20	19	Apr 28 1997
LOWEST DAILY MEAN	.00	Aug 16	.01	Aug 15	.00	Aug 16 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 16	.01	Aug 12	.00	Aug 16 1999
INSTANTANEOUS PEAK FLOW			38	Mar 20	557*	Apr 28 1997
INSTANTANEOUS PEAK STAGE			1.98	Mar 20	5.40*	Apr 28 1997
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00*	Aug 16 1999
ANNUAL RUNOFF (CFSM)	.62		.79		1.13	
ANNUAL RUNOFF (INCHES)	8.39		10.71		15.38	
10 PERCENT EXCEEDS	.14		.19		.31	
50 PERCENT EXCEEDS	.06		.07		.08	
90 PERCENT EXCEEDS	.02		.03		.03	

e Estimated.
* See REMARKS.

0214399580 LONG CREEK TRIBUTARY BELOW HEADWATERS NEAR BESSEMER CITY, NC--Continued



02144000 LONG CREEK NEAR BESSEMER CITY, NC

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

DRAINAGE AREA.--31.8 mi^2.

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. Datum of gage is 706.1 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Bessemer City diverts water upstream from gaging station for water supply and returns treated effluent to South Fork Catawba River downstream of mouth of Long Creek causing some diurnal fluctuation; a daily average of 1.05 ft^3/s was diverted during the year. Minimum discharge for current water year also occurred Aug 18.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.7	7.4	9.2	36	21	21	26	8.4	3.7	3.4	3.5
2	3.4	14	7.5	10	32	19	22	22	6.5	3.3	3.7	26
3	3.0	8.4	5.5	10	27	18	29	30	5.7	3.3	3.5	93
4	5.8	6.4	8.0	9.8	27	18	27	26	7.8	3.0	3.4	29
5	6.7	6.3	7.6	11	25	17	21	23	25	2.6	3.4	9.0
6	4.0	7.1	23	8.1	23	18	20	18	19	2.5	2.8	6.3
7	3.6	6.6	13	8.2	22	16	19	18	9.3	7.2	2.4	5.4
8	3.3	6.4	7.7	8.0	19	19	22	15	8.9	4.4	1.9	5.7
9	3.3	6.0	7.4	13	20	17	22	15	7.1	3.2	1.9	3.9
10	29	5.8	9.3	138	18	16	18	17	8.1	2.6	4.1	3.5
11	173	5.9	8.9	50	17	18	18	15	6.3	2.1	2.6	3.3
12	26	5.9	7.9	32	60	23	18	12	6.7	3.0	1.7	3.6
13	14	5.9	10	26	45	18	30	13	5.5	9.9	1.5	3.5
14	11	6.3	30	22	130	16	25	26	5.1	5.2	1.7	3.3
15	8.1	6.2	16	18	53	18	167	13	6.6	4.0	1.5	4.3
16	7.1	6.1	12	18	38	75	103	13	7.9	3.1	1.4	2.8
17	6.8	6.0	9.9	16	33	158	46	10	5.9	2.7	1.3	2.6
18	6.4	5.0	9.3	17	32	41	40	12	6.2	2.4	1.4	2.8
19	5.6	6.1	8.9	17	29	31	31	9.6	8.4	2.1	1.9	14
20	7.3	6.5	11	22	27	490	26	8.2	5.2	2.0	1.9	4.8
21	10	6.5	23	17	25	127	25	10	5.5	1.8	2.1	4.4
22	7.3	6.5	26	16	22	53	23	11	5.1	1.8	2.2	5.8
23	6.7	6.5	16	27	22	39	21	7.9	4.6	4.1	1.9	54
24	6.1	6.5	14	27	21	35	20	11	3.8	4.5	2.1	15
25	6.0	5.7	11	30	22	30	43	14	3.6	6.8	2.9	15
26	6.0	16	12	28	20	26	28	11	3.6	4.3	7.5	21
27	6.1	11	11	24	23	28	27	7.6	4.3	3.5	2.7	6.9
28	5.8	8.2	9.3	23	27	32	55	7.3	3.2	9.7	3.3	6.0
29	5.8	7.7	9.1	23	21	24	43	9.5	4.4	3.1	2.3	6.8
30	5.7	7.4	8.8	39	---	24	33	8.0	4.9	2.4	1.6	4.7
31	5.7	---	8.8	41	---	22	---	6.6	---	2.2	3.0	---
TOTAL	403.0	214.6	369.3	758.3	916	1507	1043	445.7	212.6	116.5	79.0	369.9
MEAN	13.0	7.15	11.9	24.5	31.6	48.6	34.8	14.4	7.09	3.76	2.55	12.3
MAX	173	16	30	138	130	490	167	30	25	9.9	7.5	93
MIN	3.0	5.0	5.5	8.0	17	16	18	6.6	3.2	1.8	1.3	2.6
CFSM	.41	.22	.37	.77	.99	1.53	1.09	.45	.22	.12	.08	.39
IN.	.47	.25	.43	.89	1.07	1.76	1.22	.52	.25	.14	.09	.43

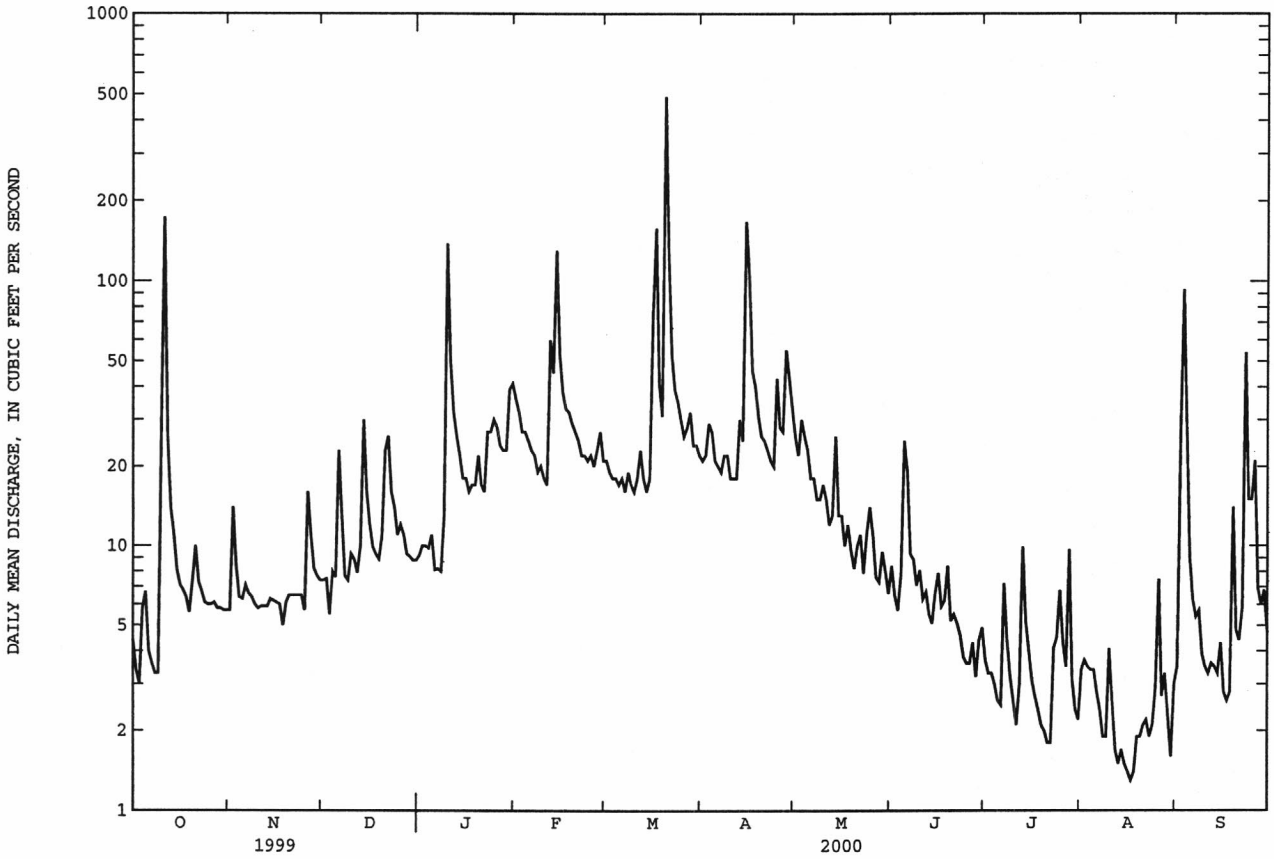
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

MEAN	25.7	26.2	33.7	50.3	58.9	61.8	47.8	32.2	25.2	18.0	20.1	15.6
MAX	147	128	85.2	135	137	146	142	89.2	72.5	65.9	81.7	59.3
(WY)	1972	1958	1977	1993	1960	1993	1958	1975	1962	1975	1985	1971
MIN	2.37	7.09	7.37	8.17	22.5	22.8	14.3	10.0	3.74	2.41	2.55	1.99
(WY)	1955	1954	1956	1956	1986	1955	1967	1986	1986	1986	2000	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000	
ANNUAL TOTAL	6425.3		6434.9			
ANNUAL MEAN	17.6		17.6		34.6	
HIGHEST ANNUAL MEAN					58.6	1993
LOWEST ANNUAL MEAN					16.7	1988
HIGHEST DAILY MEAN	195	Jan 3	490	Mar 20	2940	Oct 16 1971
LOWEST DAILY MEAN	1.1	Aug 19	1.3	Aug 17	.55	Jul 14 1986
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 15	1.5	Aug 12	.76	Jul 9 1986
INSTANTANEOUS PEAK FLOW			920	Mar 20	6500	Oct 16 1971
INSTANTANEOUS PEAK STAGE			5.19	Mar 20	9.10	Oct 16 1971
INSTANTANEOUS LOW FLOW			1.2*	Aug 17	.40	Oct 7 1954
ANNUAL RUNOFF (CFSM)	.55		.55		1.09	
ANNUAL RUNOFF (INCHES)	7.52		7.53		14.78	
10 PERCENT EXCEEDS	33		30		56	
50 PERCENT EXCEEDS	11		9.1		20	
90 PERCENT EXCEEDS	2.4		2.9		6.6	

* See REMARKS.

02144000 LONG CREEK NEAR BESSEMER CITY, NC--Continued



02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC

LOCATION.--Lat 35°17'10", long 81°06'00", Gaston County, Hydrologic Unit 03050102, on right bank 50 ft north of private mill road, 120 ft downstream of Housers Creek, 1.0 mi north of Lowell, 2.5 mi upstream from bridge on Interstate Highway 85, and 3.0 mi downstream of Long Creek.

DRAINAGE AREA.--628 mi^2.

PERIOD OF RECORD.--January 1942 to September 1971, October 1983 to current year.

REVISED RECORDS.--WSP 1002: 1943(M). WSP 1303: 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 603.10 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation and slight regulation for short periods at low flow caused by power plant upstream from station. For diversion by Town of Bessemer City, see Long Creek near Bessemer City (station 02144000). Minimum discharge for all water years affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 15, 1940, reached a stage of 21.33 ft, from floodmarks; discharge, 34,000 ft^3/s. Depth of flow over dam during the July 1916 flood at High Shoals, 11 mi upstream, was about 1 ft higher than that for August 1940, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	446	e320	390	393	680	501	598	962	360	265	270	171
2	322	379	335	384	593	485	581	818	341	236	306	551
3	250	453	331	389	545	473	812	1010	325	166	298	1100
4	279	371	341	394	515	454	1120	827	327	190	309	700
5	287	365	324	451	509	452	926	732	383	181	316	537
6	290	334	426	426	490	449	801	679	577	165	293	417
7	264	337	448	393	476	449	719	631	482	223	276	315
8	260	309	386	361	465	439	682	596	366	210	254	288
9	245	314	353	387	457	432	733	562	328	158	224	257
10	349	306	372	1760	448	421	652	537	327	168	244	244
11	1800	320	396	1930	449	427	601	501	290	171	293	214
12	958	333	366	1070	686	510	568	491	262	244	248	217
13	566	337	348	799	976	476	587	464	272	1060	194	207
14	461	354	563	671	1620	443	604	551	272	503	182	200
15	411	330	651	601	1390	435	1220	467	265	315	186	198
16	356	323	583	555	1040	549	1900	438	353	265	174	210
17	320	314	531	509	809	1820	1590	433	326	233	155	162
18	311	310	469	492	720	1030	1550	428	274	178	150	161
19	298	293	404	505	687	774	1100	392	274	204	194	424
20	306	303	405	576	641	3110	868	380	245	176	140	311
21	412	276	508	617	600	4170	779	392	278	186	151	254
22	366	288	699	541	565	2640	715	438	274	162	166	289
23	328	303	588	555	519	1350	681	488	241	194	161	647
24	322	305	499	565	531	992	663	449	243	383	168	548
25	295	324	456	568	530	848	1060	574	223	428	182	446
26	284	458	434	539	508	760	1020	549	199	321	221	508
27	294	627	418	497	497	730	893	465	239	286	175	311
28	292	546	403	463	597	760	1170	416	239	414	158	266
29	279	478	394	439	532	687	1760	442	251	634	154	248
30	e280	438	375	591	---	636	1230	449	299	375	154	240
31	e275	---	372	731	---	627	---	357	---	270	161	---
TOTAL	12206	10748	13568	19152	19075	28329	28183	16918	9135	8964	6557	10641
MEAN	394	358	438	618	658	914	939	546	304	289	212	355
MAX	1800	627	699	1930	1620	4170	1900	1010	577	1060	316	1100
MIN	245	276	324	361	448	421	568	357	199	158	140	161
CFSM	.63	.57	.70	.98	1.05	1.46	1.50	.87	.48	.46	.34	.56
IN.	.72	.64	.80	1.13	1.13	1.68	1.67	1.00	.54	.53	.39	.63

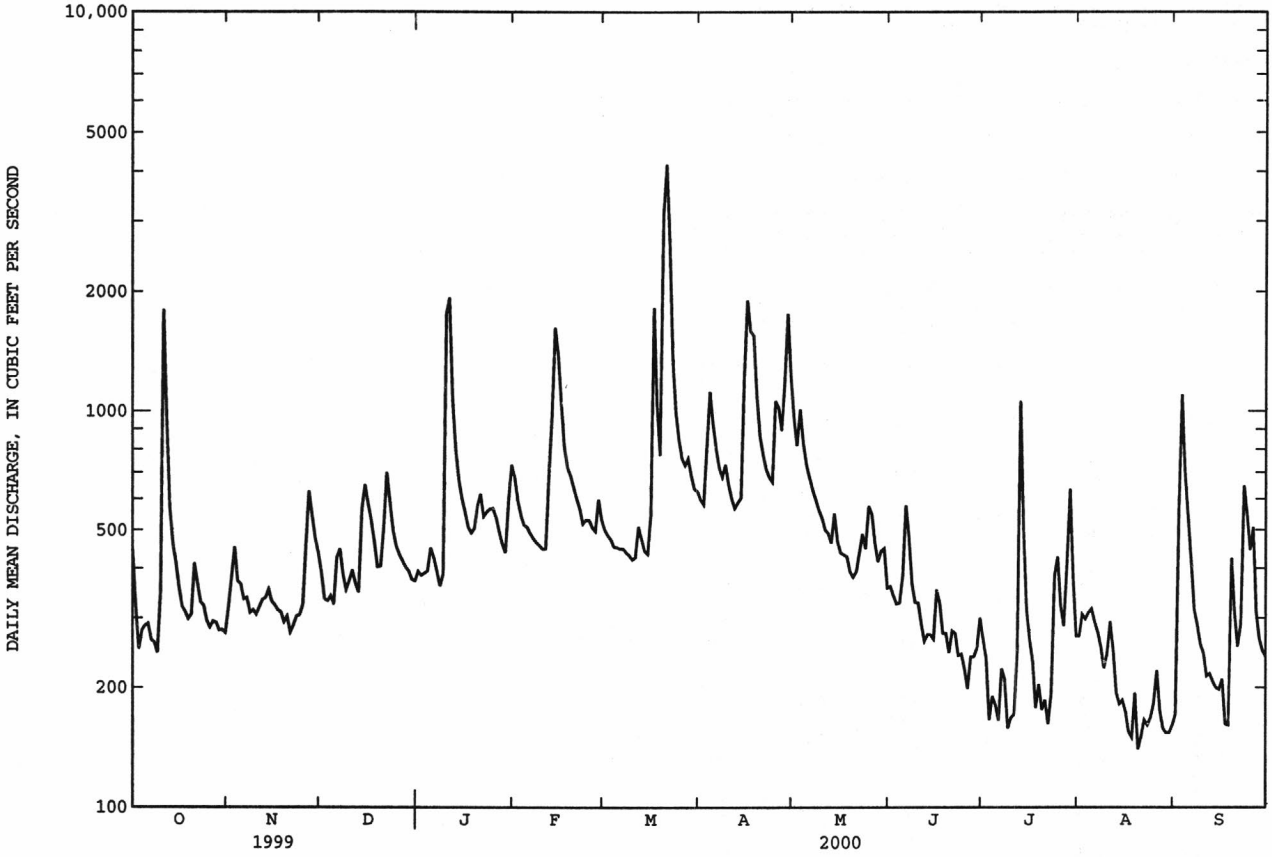
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000@, BY WATER YEAR (WY)

MEAN	637	630	786	1020	1233	1301	1049	749	629	534	580	497
MAX	2862	2034	1748	2468	3204	3511	2676	1759	1424	1361	2266	2460
(WY)	1965	1958	1968	1993	1960	1952	1958	1984	1962	1943	1970	1945
MIN	104	215	235	242	499	561	390	337	196	162	182	110
(WY)	1955	1955	1956	1956	1986	1955	1967	1986	1986	1986	1956	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000@	
ANNUAL TOTAL	191932		183476			
ANNUAL MEAN	526		501		803	
HIGHEST ANNUAL MEAN					1341	1993
LOWEST ANNUAL MEAN					418	1955
HIGHEST DAILY MEAN	2700	Jan 24	4170	Mar 21	21700	Aug 11 1970
LOWEST DAILY MEAN	126	Sep 26	140	Aug 20	31	Oct 8 1954
ANNUAL SEVEN-DAY MINIMUM	143	Aug 14	160	Aug 17	73	Oct 8 1954
INSTANTANEOUS PEAK FLOW			5620	Mar 20	24800	Aug 11 1970
INSTANTANEOUS PEAK STAGE			8.57	Mar 20	17.38	Aug 11 1970
INSTANTANEOUS LOW FLOW			105	Aug 20	13*	Aug 22 1988
ANNUAL RUNOFF (CFSM)	.84		.80		1.28	
ANNUAL RUNOFF (INCHES)	11.37		10.87		17.38	
10 PERCENT EXCEEDS	851		821		1380	
50 PERCENT EXCEEDS	446		413		566	
90 PERCENT EXCEEDS	189		203		279	

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

02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC--Continued



0214620760 CRN03

LOCATION.--Lat 35°16'32", long 80°47'05", Mecklenburg County, Hydrologic Unit 03050103, Irwin Creek at Starita Road at Charlotte, NC.

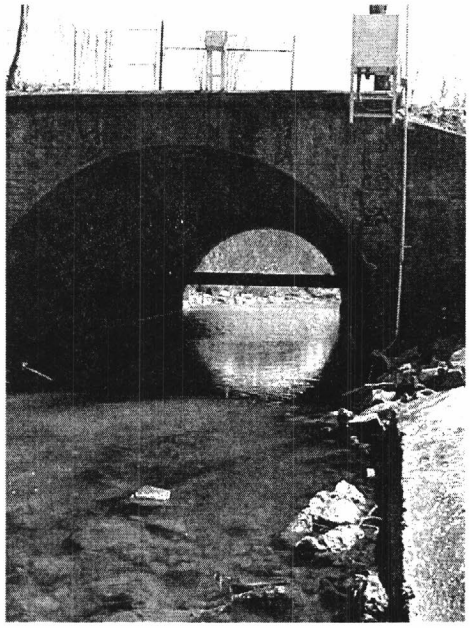
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.57	.45
2	.00	.36	.00	.00	.00	.00	.23	1.41	.00	.00	.02	.27
3	.00	.00	.00	.00	.00	.00	.22	.01	.01	.00	1.11	1.52
4	.18	.00	.00	.26	.00	.17	.02	.00	.18	.30	.26	.30
5	.00	.00	.00	.00	.00	.00	.00	.01	.42	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00
8	.00	.00	.00	.04	.00	.00	1.09	.00	.00	.00	.00	.00
9	.01	.00	.00	.39	.00	.00	.00	.00	.00	.00	.00	.00
10	2.53	.00	.12	.72	.00	.00	.00	.00	.00	.00	.40	.00
11	1.54	.66	.00	.00	.01	.39	.00	.00	.00	.03	.00	.00
12	.00	.00	.00	.00	---	.00	.00	.00	.00	2.09	.00	.00
13	.19	.00	.05	.00	---	.00	.55	.30	.00	.01	.00	.00
14	.00	.00	.37	.00	---	.00	.52	.01	.00	.14	.00	.00
15	.00	.00	.00	.00	.00	.00	.65	.00	.16	.01	.00	.00
16	.00	.00	.00	.00	.00	1.77	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.12	.00	.12	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.18	.00	.00	.00	.11	.00	1.53	.88
19	.06	.00	.05	---	.00	.00	.00	.00	.00	.16	.00	.11
20	.63	.00	.11	---	.00	1.34	.00	.00	.00	.00	.00	.00
21	.00	.02	.40	---	.00	.00	.00	.00	1.60	.00	.00	---
22	.00	.01	.00	---	.00	.00	.00	.00	.14	.00	.00	---
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.61	.00	---
24	.00	.00	.00	---	.00	.00	.45	.09	.00	.04	.59	.00
25	.00	.02	.00	---	.00	.00	.13	.02	.00	.06	.00	.42
26	.00	.86	.00	---	.00	.00	.00	.01	.06	.01	.00	.00
27	.00	.00	.00	---	.38	.33	.00	.00	.02	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.74	.03	1.00	.49	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.02	.18	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.14	.00
31	.00	---	.00	.00	---	.02	---	.00	---	.24	.06	---
TOTAL	5.14	1.93	1.10	2.50	---	4.02	4.73	1.95	3.88	4.81	4.68	---



Instrumentation at USGS gaging station at Stewart Creek at State street at Charlotte.

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC

LOCATION.--Lat 35°15'43", long 80°50'15", Mecklenburg County, Hydrologic Unit 03050103, on right bank 50 ft upstream from bridge on Statesville Avenue (U.S. Highway 21), 1,000 ft upstream from Kennedy Branch, 0.2 mi upstream from Interstate Highway 77, and 2.5 mi north of Trade and Tryon Street intersection in downtown Charlotte.

DRAINAGE AREA.--5.97 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1969-80, October 1981 to September 1994, November 1997 to current year.

REVISED RECORDS.--WDR NC-84-1: 1982.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 656.85 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. A 140-acre solid-waste landfill, used 1940 to 1970, is located just upstream from station. No flow for parts of Aug. 1,3,4, 1987, occurred as a result of upstream construction; minimum discharge not affected by construction: 0.12 ft^3/s, Aug. 30,31, 1987. Minimum discharge for current water year also occurred Aug. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	.97	1.2	1.1	7.8	2.3	2.2	2.3	1.1	.79	9.3	5.9
2	.65	6.2	1.2	1.1	5.2	2.1	4.4	56	1.0	.63	2.1	8.3
3	1.0	1.3	1.2	1.1	3.9	2.0	7.9	22	1.0	.61	3.4	62
4	1.5	1.0	1.2	4.4	3.5	3.9	3.2	4.6	2.0	3.1	65	19
5	.73	1.1	1.2	1.9	2.8	2.4	2.4	3.2	4.2	.98	2.1	3.3
6	.55	1.0	1.2	1.3	2.4	2.1	2.2	2.6	2.6	.72	1.1	1.7
7	.51	.98	1.1	1.2	2.3	1.9	2.1	2.3	1.2	12	.85	1.2
8	.55	.98	.98	1.2	2.2	1.9	38	2.1	1.1	1.0	.73	1.0
9	.69	.98	.99	6.2	2.1	1.9	6.4	2.0	1.0	.65	.73	.90
10	68	.91	5.2	37	2.0	1.9	3.4	1.9	.96	.55	12	.80
11	89	28	1.6	5.0	2.0	5.2	2.7	1.8	.92	.60	1.1	.78
12	3.1	6.0	1.2	2.6	24	3.4	2.4	1.8	.86	59	.72	.76
13	5.0	1.9	1.9	2.0	7.0	2.0	15	3.2	.77	4.5	.59	.80
14	2.0	1.4	12	1.6	64	1.9	18	2.5	.72	3.6	.58	.82
15	1.2	1.3	2.2	1.5	7.6	1.9	49	1.8	1.1	1.7	.49	.76
16	.97	1.1	1.5	1.5	4.5	83	13	1.7	.96	.79	.44	.60
17	.96	1.1	1.3	1.5	3.5	24	6.4	1.7	.73	.67	.60	.68
18	.97	1.0	1.2	2.7	10	6.1	4.8	1.6	8.3	.64	35	12
19	1.0	1.0	1.4	2.0	4.4	4.9	3.4	1.6	2.0	1.3	4.3	11
20	10	1.0	2.0	6.3	3.2	78	2.9	1.5	.92	1.4	1.2	1.5
21	3.9	1.2	9.9	2.1	2.8	14	2.6	1.6	.83	.62	.86	1.3
22	1.5	1.1	3.9	1.7	2.6	5.9	2.3	1.6	2.3	.51	.78	37
23	1.1	1.1	2.0	14	2.4	4.2	2.2	1.5	.94	3.5	.64	101
24	.90	1.1	1.5	6.3	2.4	3.5	5.7	2.1	.70	6.3	7.6	5.4
25	1.0	1.1	1.3	16	2.3	3.1	8.8	1.5	.60	1.2	2.7	14
26	1.0	34	1.3	5.3	2.1	2.8	3.3	1.5	.54	.88	.84	3.4
27	1.0	4.3	1.2	2.9	7.8	7.3	2.5	1.5	.70	.69	.73	1.7
28	.99	2.0	1.2	2.3	4.0	4.3	14	1.5	14	5.7	.71	1.5
29	.97	1.5	1.2	3.3	2.4	2.7	4.0	1.6	5.4	1.9	.58	1.3
30	.96	1.3	1.1	34	---	2.5	2.7	1.3	1.3	.73	.70	1.2
31	.94	---	1.1	13	---	2.4	---	1.2	---	2.2	2.0	---
TOTAL	203.56	107.92	67.47	184.1	193.2	285.5	237.9	135.1	60.75	119.46	160.47	301.60
MEAN	6.57	3.60	2.18	5.94	6.66	9.21	7.93	4.36	2.03	3.85	5.18	10.1
MAX	89	34	12	37	64	83	49	56	14	59	65	101
MIN	.51	.91	.98	1.1	2.0	1.9	2.1	1.2	.54	.51	.44	.60
IN.	1.27	.67	.42	1.15	1.20	1.78	1.48	.84	.38	.74	1.00	1.88

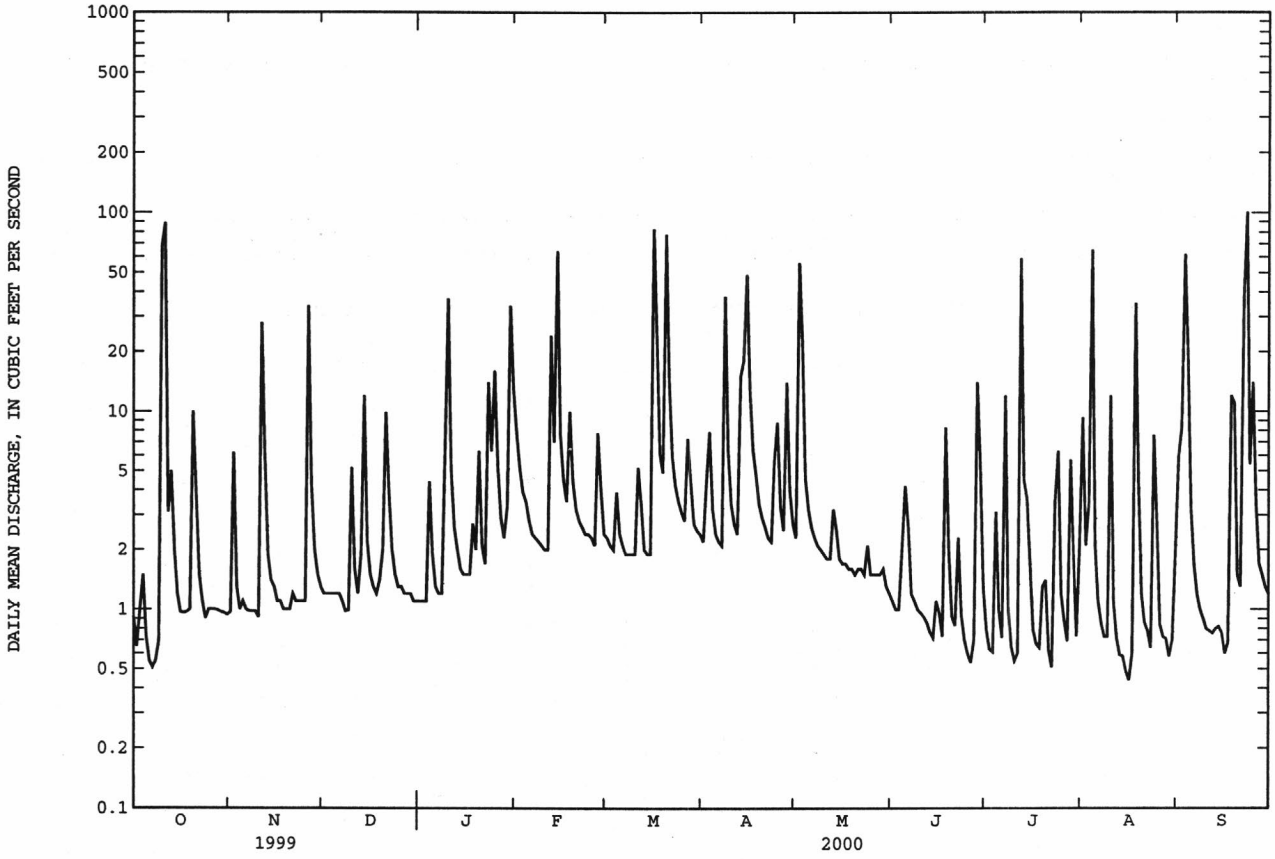
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000@, BY WATER YEAR (WY)

MEAN	5.35	6.28	7.11	11.7	14.2	13.8	7.84	6.45	6.11	3.67	4.17	3.84
MAX	23.8	27.9	21.3	22.9	38.8	30.6	16.0	16.5	24.9	8.15	11.3	16.2
(WY)	1991	1986	1984	1993	1995	1993	1998	1990	1982	1984	1985	1987
MIN	.97	1.08	2.18	4.04	4.71	2.99	2.71	1.94	.88	.93	.39	.47
(WY)	1992	1982	2000	1986	1986	1985	1986	1986	1986	1986	1987	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1981 - 2000@	
ANNUAL TOTAL	1639.71		2057.03			
ANNUAL MEAN	4.49		5.62		7.34	
HIGHEST ANNUAL MEAN					10.7	1984
LOWEST ANNUAL MEAN					4.09	1999
HIGHEST DAILY MEAN	141	Jan 23	101	Sep 23	388	Nov 21 1985
LOWEST DAILY MEAN	.33	Aug 22	.44	Aug 16	.16	Aug 1 1986
ANNUAL SEVEN-DAY MINIMUM	.45	Sep 8	.65	Aug 11	.26	Jul 28 1986
INSTANTANEOUS PEAK FLOW			733	Jul 12	1430	Jun 18 1982
INSTANTANEOUS PEAK STAGE			4.85	Jul 12	7.58	Jun 18 1982
INSTANTANEOUS LOW FLOW			.39*	Aug 16	.00*	Aug 1 1987
ANNUAL RUNOFF (INCHES)	10.22		12.82		16.71	
10 PERCENT EXCEEDS	6.5		11		14	
50 PERCENT EXCEEDS	1.6		1.9		2.5	
90 PERCENT EXCEEDS	.55		.73		.74	

@ See PERIOD OF RECORD.
* See REMARKS.

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC--Continued



02146300 IRWIN CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'50", long 80°54'18", Mecklenburg County, Hydrologic Unit 03050103, on left bank at sewage-disposal plant of city of Charlotte, 2,200 ft upstream from Southern Railway bridge, 0.7 mi upstream from Taggart Creek, and 4.2 mi southwest of city hall, Charlotte.

DRAINAGE AREA.--30.7 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 591.53 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 7,500 ft^3/s on basis of step-backwater computation. Minimum discharge for period of record also occurred July 14, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of about 17.3 ft at site 400 ft downstream, from information by plant employee. Peak may have been affected by failure of Lakewood Dam, 5 mi upstream. Flood of Jan. 6, 1962, reached a stage of 14.32 ft, from floodmarks; discharge, 4,120 ft^3/s. Flood of April 11, 1962, reached a stage of 15.18 ft, from floodmarks; discharge, 4,740 ft^3/s, on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	14	10	42	17	17	16	11	10	65	14
2	11	63	13	11	31	17	36	35	11	7.2	17	40
3	12	13	9.9	11	24	16	54	73	11	9.1	11	227
4	19	11	11	42	23	21	21	20	20	8.6	249	86
5	13	10	11	15	20	17	15	17	39	13	14	17
6	11	9.8	13	12	18	16	16	15	22	12	12	12
7	11	11	11	12	18	17	15	13	12	85	9.9	9.9
8	9.3	12	11	11	19	15	182	15	11	11	11	6.4
9	9.5	13	10	40	19	15	34	14	9.1	7.6	12	6.8
10	516	10	44	208	16	15	21	54	11	8.1	41	5.5
11	571	37	14	29	20	37	18	15	9.4	27	11	5.8
12	24	27	11	18	181	25	17	13	11	379	9.0	7.0
13	36	13	17	17	39	15	175	16	9.7	27	7.2	6.2
14	19	10	85	12	342	16	124	28	29	28	7.5	7.2
15	13	12	14	12	44	14	270	11	28	34	6.6	6.7
16	11	12	12	12	28	324	72	13	17	11	8.2	5.2
17	11	10	11	12	26	109	44	13	10	8.5	5.7	7.1
18	11	9.8	12	19	66	29	30	13	34	8.7	134	91
19	12	11	13	14	27	25	22	12	23	16	25	76
20	71	12	20	41	26	413	18	12	9.4	22	10	11
21	31	11	70	14	27	64	18	12	8.7	8.4	7.6	9.7
22	13	12	24	13	25	32	17	11	9.0	9.0	8.4	166
23	11	11	15	98	23	24	15	12	10	9.5	7.2	365
24	9.5	11	13	39	23	19	39	18	8.9	49	23	22
25	12	11	11	111	23	19	64	11	7.8	20	27	e50
26	10	180	12	32	22	18	19	11	8.6	12	14	e22
27	14	22	12	21	56	50	18	10	16	15	9.0	11
28	14	12	12	19	26	28	67	12	71	42	6.9	11
29	10	12	11	20	15	18	23	12	50	18	8.4	8.7
30	13	10	10	212	---	17	16	11	11	8.4	9.3	8.3
31	11	---	11	68	---	16	---	10	---	22	37	---
TOTAL	1550.3	610.6	557.9	1205	1269	1478	1497	548	538.6	946.1	823.9	1321.5
MEAN	50.0	20.4	18.0	38.9	43.8	47.7	49.9	17.7	18.0	30.5	26.6	44.0
MAX	571	180	85	212	342	413	270	73	71	379	249	365
MIN	9.3	9.8	9.9	10	15	14	15	10	7.8	7.2	5.7	5.2
CFSM	1.63	.66	.59	1.27	1.43	1.55	1.63	.58	.58	.99	.87	1.43
IN.	1.88	.74	.68	1.46	1.54	1.79	1.81	.66	.65	1.15	1.00	1.60

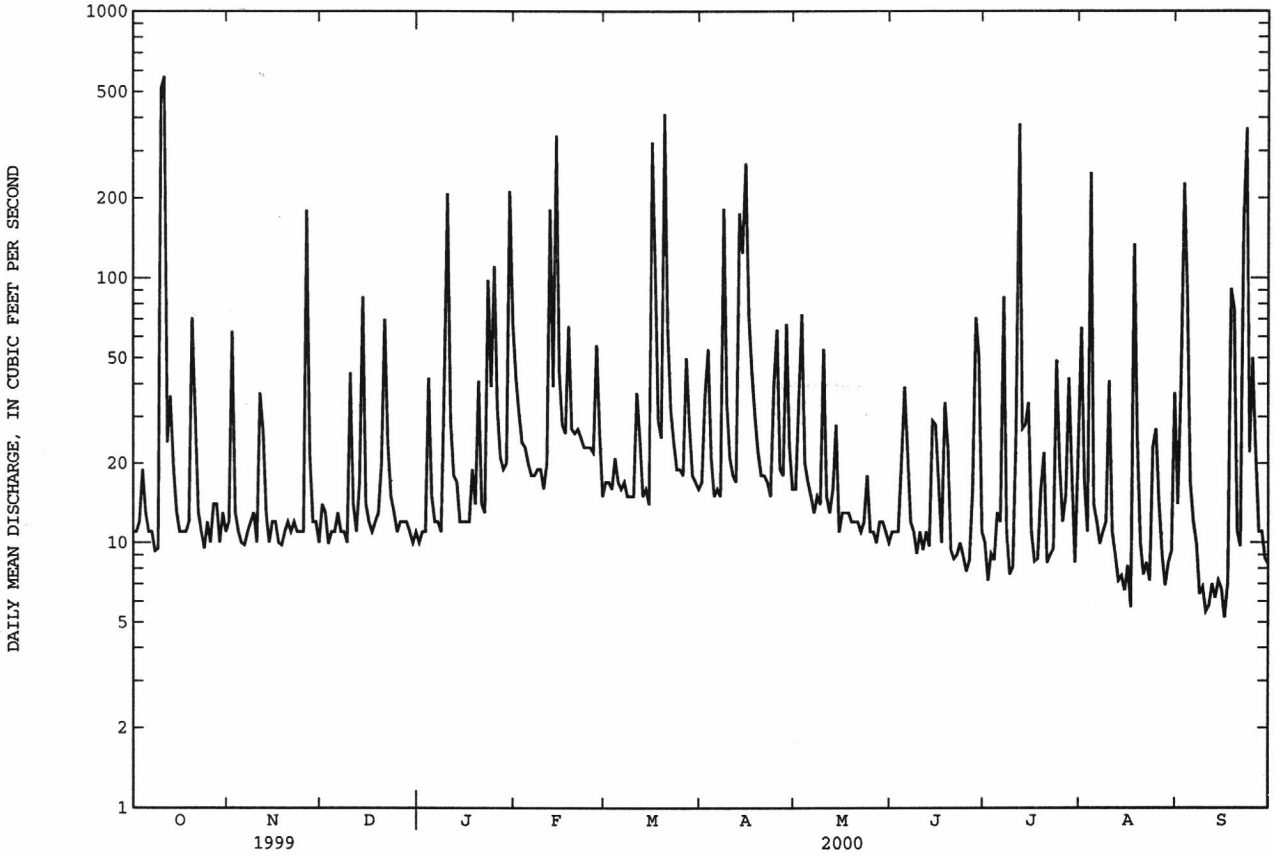
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	38.3	36.6	40.9	59.8	65.1	69.5	43.8	40.1	36.0	34.7	33.6	32.9
MAX	157	137	107	123	124	161	93.5	204	123	215	118	135
(WY)	1991	1986	1984	1993	1979	1993	1998	1975	1982	1997	1995	1975
MIN	9.00	9.32	10.2	13.4	20.7	18.5	14.9	14.0	6.95	6.67	7.97	6.00
(WY)	1992	1982	1966	1981	1968	1985	1981	1986	1986	1986	1987	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	10699.7		12345.9			
ANNUAL MEAN	29.3		33.7		44.3	
HIGHEST ANNUAL MEAN					78.6	1975
LOWEST ANNUAL MEAN					24.0	1981
HIGHEST DAILY MEAN	571	Oct 11	571	Oct 11	5010	Jul 23 1997
LOWEST DAILY MEAN	6.6	Sep 12	5.2	Sep 16	3.1	Sep 25 1983
ANNUAL SEVEN-DAY MINIMUM	8.8	Aug 29	6.2	Sep 10	3.5	Oct 5 1993
INSTANTANEOUS PEAK FLOW			3150	Jul 12	11600*	Jul 23 1997
INSTANTANEOUS PEAK STAGE			11.55	Jul 12	20.38	Jul 23 1997
INSTANTANEOUS LOW FLOW			3.9	Sep 16	2.8*	Jul 13 1986
ANNUAL RUNOFF (CFSM)	.95		1.10		1.44	
ANNUAL RUNOFF (INCHES)	12.97		14.96		19.63	
10 PERCENT EXCEEDS	49		64		79	
50 PERCENT EXCEEDS	13		15		18	
90 PERCENT EXCEEDS	9.9		9.0		8.7	

e Estimated.
* See REMARKS.

02146300 IRWIN CREEK NEAR CHARLOTTE, NC--Continued



02146315 (revised) TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°12'21", long 80°55'24", Mecklenburg County, Hydrologic Unit 03050103, on right bank at northeast corner of intersection of Billy Graham Parkway and NC Highway 160 (West Blvd), 1.2 mi upstream of confluence with Irwin Creek, and 5.0 mi from city hall, Charlotte.

DRAINAGE AREA.--5.38 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage 604.27 ft above sea level, from levels. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record and current water year also occurred Aug. 24, 29, 30, 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	.28	.86	.84	5.1	1.5	2.2	.96	.48	.32	5.8	7.2
2	.29	9.9	.86	.87	3.7	1.4	5.1	.96	.47	.26	.62	8.5
3	.27	.35	.89	.86	3.0	1.4	6.9	.95	.36	.22	1.3	31
4	2.6	.20	.94	5.2	2.7	2.9	2.7	.95	1.4	.21	16	1.6
5	.59	.19	.87	1.3	2.4	1.5	2.3	.99	4.5	.21	.60	.76
6	.30	.19	1.4	.91	2.1	1.3	2.2	1.0	.84	1.2	.24	.43
7	.32	.21	1.4	.93	2.0	1.3	2.2	1.0	.42	4.1	.14	.26
8	.35	.26	1.0	.89	1.9	1.4	27	1.1	.35	.30	.91	.15
9	.38	.31	.79	5.8	1.7	1.4	3.3	1.0	.32	.24	.57	.15
10	98	.39	7.3	34	1.6	1.4	2.2	15	.31	.17	5.5	.15
11	88	.67	1.2	2.9	1.9	3.5	1.5	2.0	.44	2.3	.21	.14
12	1.8	.27	.83	1.7	31	2.1	1.3	.84	.50	29	.12	.16
13	3.6	.20	1.5	1.4	4.7	1.3	34	2.1	.43	1.3	.11	.17
14	.83	.25	13	1.2	57	1.3	25	1.6	.28	.38	.10	.19
15	.33	.30	1.4	1.2	4.6	1.2	51	.61	4.3	.26	.12	.19
16	.31	.32	1.1	1.3	3.3	28	7.2	.60	1.1	.17	.13	.18
17	.34	.32	1.0	1.3	3.1	6.4	5.6	.60	.34	.16	.14	.18
18	.31	.34	1.0	2.7	9.6	3.1	2.7	.56	7.5	.14	2.0	22
19	.27	.36	1.2	1.6	3.2	2.5	1.7	.56	2.4	.70	.42	7.5
20	10	.51	2.4	5.7	2.3	60	1.4	.60	.67	.91	.10	.74
21	1.5	.60	13	1.6	2.1	7.3	1.4	.58	.35	.21	.08	.53
22	.36	.64	2.5	1.5	1.8	4.6	1.3	.63	.28	.13	.09	43
23	.39	.45	1.3	16	1.6	3.4	1.2	.58	.27	.13	.10	41
24	.37	.49	1.2	5.4	1.5	2.9	4.9	1.8	.25	1.8	2.0	1.2
25	.36	.59	1.1	18	1.6	2.7	6.1	.78	.34	1.6	1.0	3.1
26	.38	30	1.1	4.1	1.5	2.5	1.6	.79	1.0	.23	.66	.72
27	.30	1.9	1.1	2.9	5.0	5.2	1.2	.50	3.1	.14	.11	.30
28	.30	1.0	1.0	3.1	2.3	3.2	5.9	.69	8.3	.17	.10	.22
29	4.5	.98	.99	3.9	1.5	2.4	1.5	.81	6.5	.21	.08	.18
30	.35	.82	.86	35	---	2.3	1.1	.46	.81	.10	.11	.18
31	.37	---	.85	8.3	---	2.6	---	.41	---	.21	6.5	---
TOTAL	218.50	53.29	65.94	172.40	165.8	164.0	213.7	42.01	48.61	47.48	45.96	172.08
MEAN	7.05	1.78	2.13	5.56	5.72	5.29	7.12	1.36	1.62	1.53	1.48	5.74
MAX	98	30	13	35	57	60	51	15	8.3	29	16	43
MIN	.27	.19	.79	.84	1.5	1.2	1.1	.41	.25	.10	.08	.14
CFSM	1.31	.33	.40	1.03	1.06	.98	1.32	.25	.30	.28	.28	1.07
IN.	1.51	.37	.46	1.19	1.15	1.13	1.48	.29	.34	.33	.32	1.19

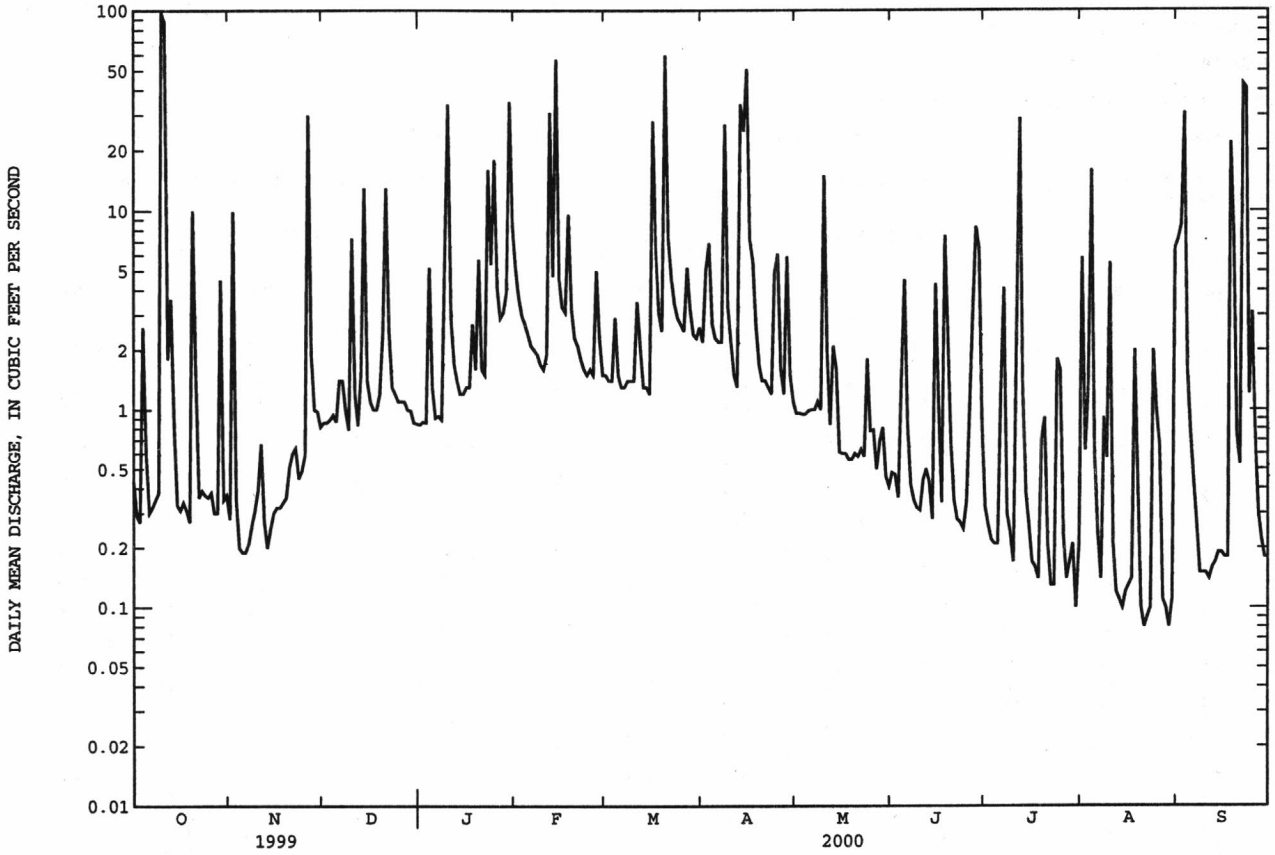
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	4.15	1.89	2.93	6.27	5.21	4.10	5.93	1.49	2.79	2.67	2.06	4.47
MAX	7.05	2.00	3.74	6.97	5.72	5.29	7.12	1.62	3.97	3.99	3.26	5.74
(WY)	2000	1999	1999	1999	2000	2000	2000	1999	1999	1998	1998	2000
MIN	1.25	1.78	2.13	5.56	4.68	2.91	4.73	1.36	1.62	1.53	1.43	3.69
(WY)	1999	2000	2000	2000	1999	1999	1999	2000	2000	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	1318.28		1409.77			
ANNUAL MEAN	3.61		3.85		3.56	
HIGHEST ANNUAL MEAN					3.85	2000
LOWEST ANNUAL MEAN					3.27	1999
HIGHEST DAILY MEAN	98	Oct 10	98	Oct 10	98	Oct 10 1999
LOWEST DAILY MEAN	.16	Sep 4	.08	Aug 21	.08	Aug 21 2000
ANNUAL SEVEN-DAY MINIMUM	.20	Aug 29	.13	Aug 11	.13	Aug 11 2000
INSTANTANEOUS PEAK FLOW			486	Oct 10	780	Jul 27 1998
INSTANTANEOUS PEAK STAGE			5.89	Oct 10	7.17	Jul 27 1998
INSTANTANEOUS LOW FLOW			.06*	Aug 21	.06*	Aug 21 2000
ANNUAL RUNOFF (CFSM)	.67		.72		.66	
ANNUAL RUNOFF (INCHES)	9.12		9.75		9.00	
10 PERCENT EXCEEDS	7.6		7.0		7.4	
50 PERCENT EXCEEDS	1.0		1.0		.96	
90 PERCENT EXCEEDS	.27		.19		.25	

* See REMARKS.

02146315 (revised) TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC--Continued



02146348 COFFEY CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'43", long 80°55'38", Mecklenburg County, Hydrologic Unit 03050103 on left bank at culvert on State Highway 49, 1.2 mi upstream from mouth, and 7.5 mi southwest of Charlotte.

DRAINAGE AREA.--9.14 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 565.72 ft above sea level. Radio telemetry at station.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.8	1.4	3.0	10	5.0	4.8	3.9	e1.8	e3.2	22	20
2	1.0	14	1.3	2.9	6.7	4.1	7.3	3.8	e1.9	3.4	5.2	15
3	.74	3.5	1.3	3.1	5.0	3.7	13	3.3	e1.6	2.5	2.1	46
4	2.3	1.8	1.2	10	4.5	6.4	6.8	3.1	e4.5	2.5	24	12
5	2.0	1.4	1.3	6.0	3.6	4.8	4.8	2.6	e12	2.4	4.6	5.9
6	.95	1.1	1.5	4.3	3.2	3.0	4.3	2.8	e3.0	4.4	3.2	3.0
7	.71	.88	1.5	3.2	2.9	2.8	3.7	2.7	e1.0	4.1	2.8	2.1
8	.64	.78	1.4	4.0	2.8	2.7	47	2.8	e.85	1.7	2.0	1.5
9	.60	.77	1.1	11	2.7	2.6	11	2.7	e.75	1.7	4.1	1.2
10	149	.77	8.5	73	2.5	2.3	5.0	11	e.70	.82	13	1.0
11	224	.79	3.1	11	2.5	4.2	6.9	9.4	e1.0	e5.0	1.8	1.0
12	13	.89	1.9	5.5	91	6.7	4.2	3.7	e1.1	e45	1.3	1.0
13	10	.79	2.0	4.2	16	2.4	52	2.5	e.95	e9.0	.86	.95
14	6.2	.78	21	3.4	147	2.4	31	4.3	e.70	e4.2	.86	.96
15	3.6	.71	3.7	3.1	19	2.5	154	1.7	e11	3.2	.87	.93
16	2.9	.78	2.5	2.9	11	31	40	1.2	e4.0	2.1	.73	.85
17	2.6	.65	2.7	2.7	8.2	23	20	e1.3	e1.5	1.5	.69	.85
18	2.4	.69	3.0	4.4	17	5.9	12	e1.4	e20	1.0	.74	6.9
19	2.1	.87	2.9	3.5	8.4	4.4	6.8	e1.4	e6.5	1.0	e2.5	48
20	10	.87	5.4	8.4	6.3	147	5.4	e1.5	e2.4	6.7	.70	3.1
21	9.4	.81	21	3.3	5.5	32	4.6	e1.5	.84	2.9	.60	2.1
22	3.1	1.1	10	2.8	5.0	12	3.9	e1.7	.70	3.1	.55	53
23	2.4	.75	6.9	28	4.8	8.2	3.4	e1.8	.65	2.9	.65	101
24	1.9	.82	5.0	11	4.4	6.3	6.3	e4.0	.69	5.5	1.4	6.6
25	1.9	.88	4.1	33	4.1	5.3	17	e2.2	1.7	3.4	11	7.2
26	2.0	33	3.5	10	4.0	4.8	7.6	e2.3	2.8	2.6	32	4.5
27	1.7	4.8	3.3	6.1	7.8	7.6	6.2	e2.0	8.8	1.5	2.4	2.2
28	1.4	2.1	3.2	5.0	7.6	10	13	e2.7	14	1.4	1.5	1.7
29	1.4	1.8	3.1	4.2	4.5	5.8	7.0	e3.2	e11	1.8	1.1	1.4
30	1.5	1.4	3.0	71	---	4.8	4.5	e1.9	e8.0	2.7	1.1	1.3
31	1.7	---	2.9	21	---	5.4	---	e1.8	---	2.4	2.9	---
TOTAL	464.84	82.08	134.7	365.0	418.0	369.1	513.5	92.2	126.43	135.62	149.25	353.24
MEAN	15.0	2.74	4.35	11.8	14.4	11.9	17.1	2.97	4.21	4.37	4.81	11.8
MAX	224	33	21	73	147	147	154	11	20	45	32	101
MIN	.60	.65	1.1	2.7	2.5	2.3	3.4	1.2	.65	.82	.55	.85
CFSM	1.63	.30	.47	1.28	1.57	1.30	1.86	.32	.46	.48	.52	1.28
IN.	1.88	.33	.55	1.48	1.69	1.49	2.08	.37	.51	.55	.60	1.43

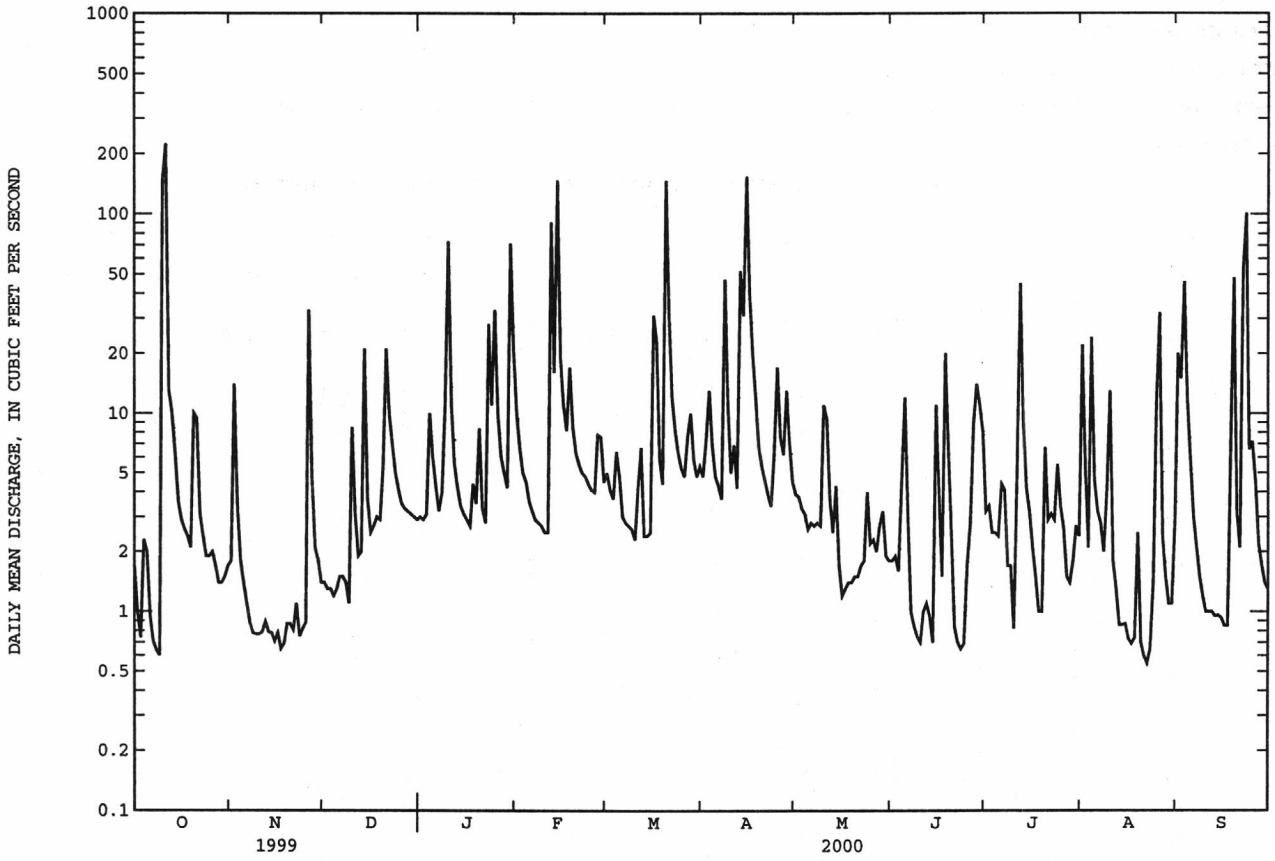
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	8.35	2.81	4.21	11.9	11.9	8.54	12.9	3.33	4.65	3.44	3.01	7.89
MAX	15.0	2.89	4.35	12.1	14.4	11.9	17.1	3.68	5.08	4.37	4.81	11.8
(WY)	2000	1999	2000	1999	2000	2000	2000	1999	1999	2000	2000	2000
MIN	1.71	2.74	4.08	11.8	9.38	5.17	8.65	2.97	4.21	2.51	1.20	4.01
(WY)	1999	2000	1999	2000	1999	1999	1999	2000	2000	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	2240.54		3203.96			
ANNUAL MEAN	6.14		8.75		6.88	
HIGHEST ANNUAL MEAN					8.75	2000
LOWEST ANNUAL MEAN					5.00	1999
HIGHEST DAILY MEAN	224	Oct 11	224	Oct 11	224	Oct 11 1999
LOWEST DAILY MEAN	.11	Aug 18	.55	Aug 22	.11	Aug 18 1999
ANNUAL SEVEN-DAY MINIMUM	.13	Aug 13	.75	Nov 13	.13	Aug 13 1999
INSTANTANEOUS PEAK FLOW			460	Oct 11	460	Oct 11 1999
INSTANTANEOUS PEAK STAGE			9.21	Oct 11	9.21	Oct 11 1999
INSTANTANEOUS LOW FLOW			.36	Aug 17	.07	Sep 5 1999
ANNUAL RUNOFF (CFSM)	.67		.95		.75	
ANNUAL RUNOFF (INCHES)	9.07		12.97		10.17	
10 PERCENT EXCEEDS	11		15		12	
50 PERCENT EXCEEDS	2.3		3.1		2.6	
90 PERCENT EXCEEDS	.49		.86		.71	

e Estimated.

02146348 COFFEY CREEK NEAR CHARLOTTE, NC--Continued



0214635212 CRN28

LOCATION.--Lat 35°06'57", long 80°54'49", Mecklenburg County, Hydrologic Unit 03050103, unnamed tributary to Sugar Creek at Crompton Street, Charlotte, NC.

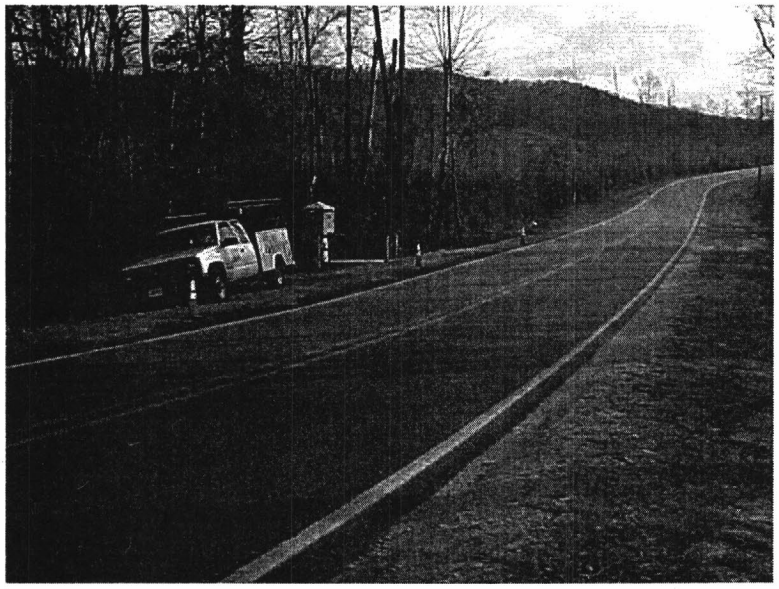
PERIOD OF RECORD.--April 1995 to current year. Records for period April 1995 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	2.27	.05
2	.00	.38	.00	.00	.00	.00	.15	.00	.00	.00	.16	.48
3	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.04	.11
4	.14	.00	.00	.26	.00	.31	.01	.00	.92	.00	.08	.03
5	.00	.00	.01	.00	.00	.00	.00	.00	1.08	.00	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.09	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91	.00	.04
8	.00	.00	.00	.00	.00	.00	.70	.00	.00	.00	.00	.00
9	.00	.00	.00	.31	.00	.00	.00	.00	.00	.00	.00	.00
10	2.60	.00	.26	.72	.00	.00	.00	.00	.00	.00	.54	.00
11	1.34	.00	.00	.00	.02	.20	.00	.00	.00	.80	.00	.00
12	.00	.00	.00	.00	1.13	.00	.00	.00	.00	.24	.00	.00
13	.20	.00	.13	.00	.23	.00	.36	.11	.00	.00	.00	.00
14	.00	.00	.43	.00	.99	.00	.55	.00	---	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.69	.00	---	.00	.00	.00
16	.00	.00	.00	.00	.00	.49	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.21	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.13	.00	.00	.00	---	.00	.02	.81
19	.05	.00	.09	---	.00	.00	.00	.00	.00	.08	.00	.06
20	.66	.00	.06	---	.00	1.98	.00	.00	.00	.00	.01	.00
21	.00	.00	.33	---	.00	.00	.00	.00	.00	.25	.00	.09
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.76
23	.00	.00	.00	---	.00	.00	.00	.05	.00	.39	.00	.60
24	.00	.00	.00	---	.00	.00	.47	.08	.00	.02	.12	.00
25	.00	.02	.00	---	.00	.00	.10	.05	.00	.02	1.04	.88
26	.00	.75	.00	---	.00	.00	.02	.00	---	.00	1.07	.00
27	.00	.00	.00	---	.34	.28	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	---	.01	.00	.13	.16	---	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.02	.00	---	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.17	.00
31	.00	---	.00	.00	---	.05	---	.00	---	.21	.12	---
TOTAL	4.99	1.15	1.32	2.68	3.04	3.32	3.53	0.45	---	3.02	5.64	3.91



USGS gaging station at Dutchman's Creek near Uwharrie.

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC

LOCATION.--Lat 35°05'20", long 80°54'00", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of bridge at N.C. Highway 51, 0.3 mi upstream from McCullough Branch, and 0.6 mi northwest of city hall, Pineville.

DRAINAGE AREA.--65.3 mi^2.

PERIOD OF RECORD.-- Occasional discharge measurements, water years 1978-94. October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 525 ft above sea level, from topographic map. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A daily average of 15.5 ft^3/s of treated effluent from Irwin Creek wastewater treatment plant was discharged into the stream above the gage. Maximum discharge for period of record from rating curve extended above 9,710 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	32	35	36	e120	38	41	37	27	29	215	75
2	29	116	37	33	68	33	52	33	27	25	101	106
3	28	56	34	35	59	39	108	96	26	25	39	265
4	31	41	34	59	54	51	56	34	60	24	307	185
5	42	36	31	70	48	51	42	36	117	26	50	63
6	29	35	32	39	45	38	40	32	58	30	35	38
7	27	34	32	38	42	38	39	31	31	111	32	35
8	25	36	33	36	43	37	269	31	27	32	30	30
9	24	37	32	47	41	35	124	30	27	24	35	28
10	677	34	71	429	40	36	56	32	26	23	99	27
11	1990	30	59	102	40	37	48	74	24	29	37	27
12	142	69	39	57	445	76	40	34	25	471	28	29
13	105	37	39	49	136	37	283	31	24	156	25	27
14	84	34	171	43	852	37	128	49	26	43	25	27
15	55	32	56	38	146	32	708	32	47	74	24	26
16	46	36	43	38	81	156	235	31	62	33	25	25
17	42	35	39	37	64	415	97	30	26	27	24	24
18	42	34	38	48	130	69	99	30	38	28	37	27
19	42	34	38	46	67	53	57	27	59	29	141	e64
20	97	33	49	80	53	902	47	27	26	65	30	e40
21	143	32	109	48	49	225	37	27	23	38	27	e38
22	52	34	93	40	47	96	40	28	23	27	28	e300
23	42	33	47	179	43	71	37	24	23	27	26	821
24	38	33	43	114	42	59	40	27	22	88	27	82
25	36	32	39	236	41	53	149	31	22	41	79	118
26	38	284	38	e110	39	49	56	28	24	33	265	100
27	37	87	39	e60	62	59	45	26	46	30	37	39
28	39	41	40	54	99	102	83	26	50	44	31	33
29	37	36	39	48	43	49	71	32	193	47	32	30
30	39	35	38	437	---	45	42	27	51	27	29	27
31	35	---	36	203	---	46	---	26	---	29	52	---
TOTAL	4131	1478	1503	2889	3039	3064	3169	1059	1260	1735	1972	2756
MEAN	133	49.3	48.5	93.2	105	98.8	106	34.2	42.0	56.0	63.6	91.9
MAX	1990	284	171	437	852	902	708	96	193	471	307	821
MIN	24	30	31	33	39	32	37	24	22	23	24	24
CFSM	2.04	.75	.74	1.43	1.60	1.51	1.62	.52	.64	.86	.97	1.41
IN.	2.35	.84	.86	1.65	1.73	1.75	1.81	.60	.72	.99	1.12	1.57

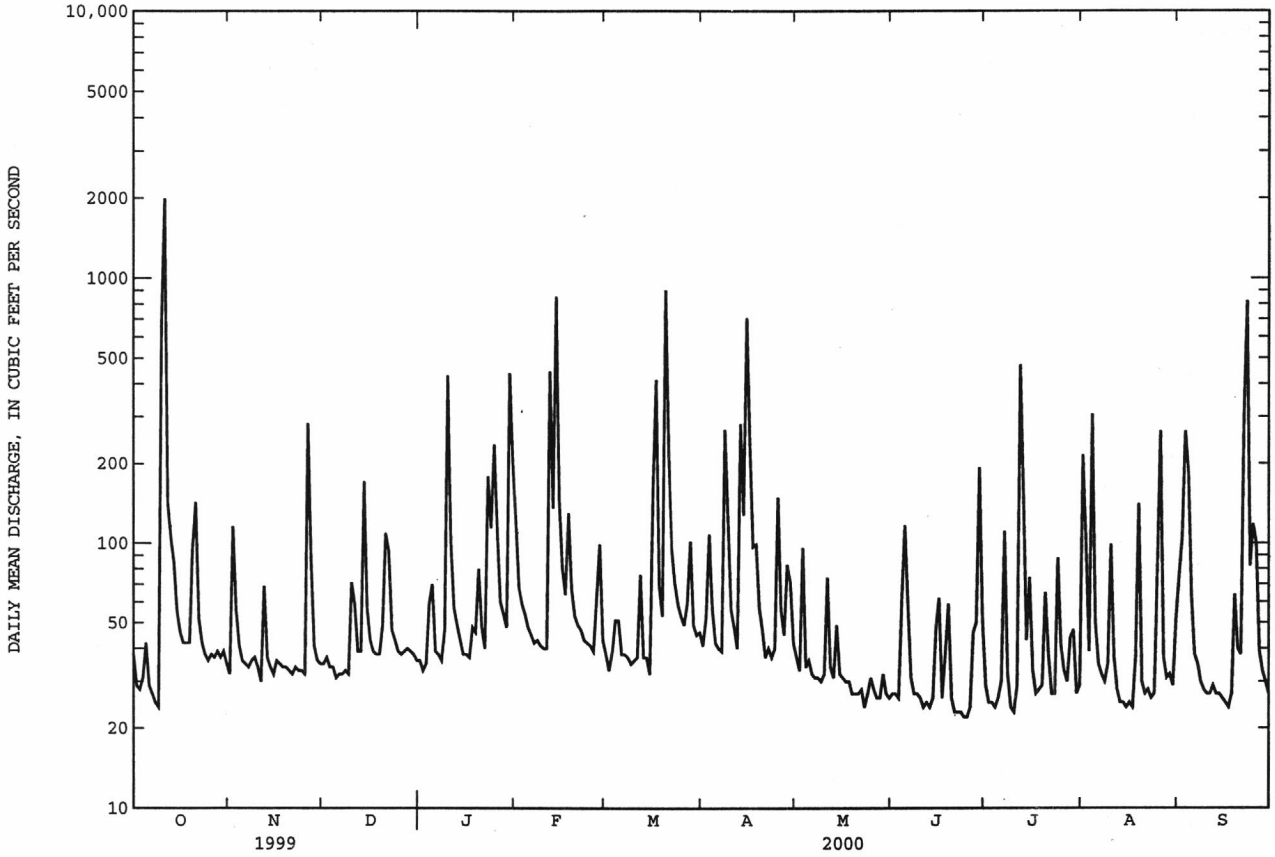
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	94.2	79.3	75.7	145	149	111	121	63.9	77.9	112	74.3	72.7
MAX	154	182	132	237	232	151	196	99.9	118	315	171	99.2
(WY)	1996	1996	1998	1998	1995	1996	1998	1995	1997	1997	1995	1995
MIN	38.6	40.8	48.5	93.2	81.2	55.7	44.0	34.2	42.0	46.2	29.5	51.5
(WY)	1999	1999	2000	2000	1999	1999	1995	2000	2000	1996	1997	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	25767		28055			
ANNUAL MEAN	70.6		76.7		97.8	
HIGHEST ANNUAL MEAN					120	1998
LOWEST ANNUAL MEAN					63.3	1999
HIGHEST DAILY MEAN	1990	Oct 11	1990	Oct 11	4790	Jul 23 1997
LOWEST DAILY MEAN	24	Sep 4	22	Jun 24	19	Aug 24 1997
ANNUAL SEVEN-DAY MINIMUM	26	Aug 29	23	Jun 20	22	Sep 2 1997
INSTANTANEOUS PEAK FLOW			2710	Oct 11	9890*	Jul 23 1997
INSTANTANEOUS PEAK STAGE			11.51	Oct 11	18.68	Jul 23 1997
INSTANTANEOUS LOW FLOW			17	May 24	15	Aug 10 1997
ANNUAL RUNOFF (CFSM)	1.08		1.17		1.50	
ANNUAL RUNOFF (INCHES)	14.68		15.98		20.34	
10 PERCENT EXCEEDS	114		129		162	
50 PERCENT EXCEEDS	40		39		47	
90 PERCENT EXCEEDS	29		27		28	

e Estimated
* See REMARKS.

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC--Continued



02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°12'11", long 80°50'15", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge at Medical Center Drive, 3.3 mi upstream from Briar Creek, and 1.3 mi south of city hall in Charlotte.

DRAINAGE AREA.--11.8 mi^2, revised.

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".

GAGE.--Water-stage recorder. Datum of gage is 612.82 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--Records good. Minimum discharge for period of record also occurred Sept. 6, 8, 1997 and may have been affected by regulation of unknown origin. Minimum discharge for current water year also occurred Nov. 30, Dec. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.6	2.0	3.9	10	4.2	6.4	5.6	5.3	3.9	105	13
2	2.7	28	2.1	3.9	8.0	4.0	12	103	5.1	3.8	12	29
3	2.5	2.8	2.2	4.0	7.1	3.9	16	40	5.1	3.8	11	111
4	4.6	2.4	2.3	22	6.6	9.1	6.0	8.2	9.2	3.7	205	64
5	3.1	2.2	2.4	5.3	5.9	4.7	5.4	7.1	21	5.5	5.2	6.6
6	2.2	2.3	2.8	4.0	5.6	4.1	5.4	6.7	6.8	4.8	4.1	4.4
7	2.4	2.1	2.3	4.1	5.5	3.8	5.4	6.3	5.1	106	4.0	3.9
8	2.7	2.3	2.4	3.9	5.4	3.9	119	6.2	4.9	4.4	3.9	3.7
9	2.6	2.4	2.3	18	5.2	3.8	8.8	6.4	4.8	4.0	3.8	3.5
10	293	2.5	16	94	5.3	3.8	6.4	24	4.8	3.8	72	3.4
11	298	26	2.9	6.8	7.4	9.4	5.8	6.4	4.8	24	4.8	3.4
12	5.0	4.0	2.2	5.1	87	5.9	5.6	5.9	4.8	227	4.3	3.4
13	28	2.4	5.5	4.8	11	3.8	113	8.2	4.7	10	4.1	3.5
14	5.4	2.1	44	4.4	153	3.6	51	8.3	25	31	4.1	3.5
15	3.5	2.1	4.9	4.3	9.4	3.7	107	5.9	7.0	13	4.2	3.5
16	3.1	2.2	4.2	4.3	7.4	165	15	5.8	5.0	4.4	4.2	4.1
17	2.7	2.3	4.1	4.4	7.1	17	19	5.8	4.4	4.0	5.5	4.0
18	2.6	2.1	4.1	7.7	25	6.7	9.2	5.7	11	3.9	71	76
19	2.6	2.3	5.0	5.5	7.2	6.0	7.0	5.7	8.4	8.8	8.4	31
20	33	2.2	7.5	17	6.2	208	6.5	5.5	4.6	8.0	4.3	3.9
21	7.9	2.4	29	5.0	6.0	16	6.2	5.5	4.5	4.3	4.0	4.3
22	3.3	2.6	6.5	4.5	5.8	8.1	5.9	5.9	5.2	3.9	3.4	69
23	2.8	2.7	4.5	47	5.8	7.2	5.7	5.8	5.8	9.8	2.9	341
24	2.6	2.1	4.1	13	5.6	6.5	21	8.2	4.3	22	21	6.7
25	2.6	2.3	3.9	47	5.6	6.4	22	5.7	4.2	5.9	10	66
26	2.4	92	4.0	8.8	5.4	6.0	6.6	5.4	4.2	4.3	5.0	8.0
27	2.4	3.6	4.0	6.3	44	27	5.9	5.1	4.4	3.8	4.2	4.3
28	2.4	2.3	4.1	5.9	8.1	8.5	32	5.7	52	4.1	3.8	3.8
29	2.5	2.1	4.0	9.7	4.7	6.0	7.5	5.9	18	4.4	3.6	3.7
30	2.4	2.0	3.9	108	---	6.1	5.9	6.5	4.9	3.5	5.1	3.6
31	2.6	---	3.9	15	---	7.7	---	5.0	---	4.9	22	---
TOTAL	736.7	211.4	193.1	497.6	476.3	579.9	648.6	341.4	259.3	548.7	625.9	889.2
MEAN	23.8	7.05	6.23	16.1	16.4	18.7	21.6	11.0	8.64	17.7	20.2	29.6
MAX	298	92	44	108	153	208	119	103	52	227	205	341
MIN	2.2	2.0	2.0	3.9	4.7	3.6	5.4	5.0	4.2	3.5	2.9	3.4
CFSM	1.95	.58	.51	1.32	1.35	1.53	1.77	.90	.71	1.45	1.65	2.43
IN.	2.25	.64	.59	1.52	1.45	1.77	1.98	1.04	.79	1.67	1.91	2.71

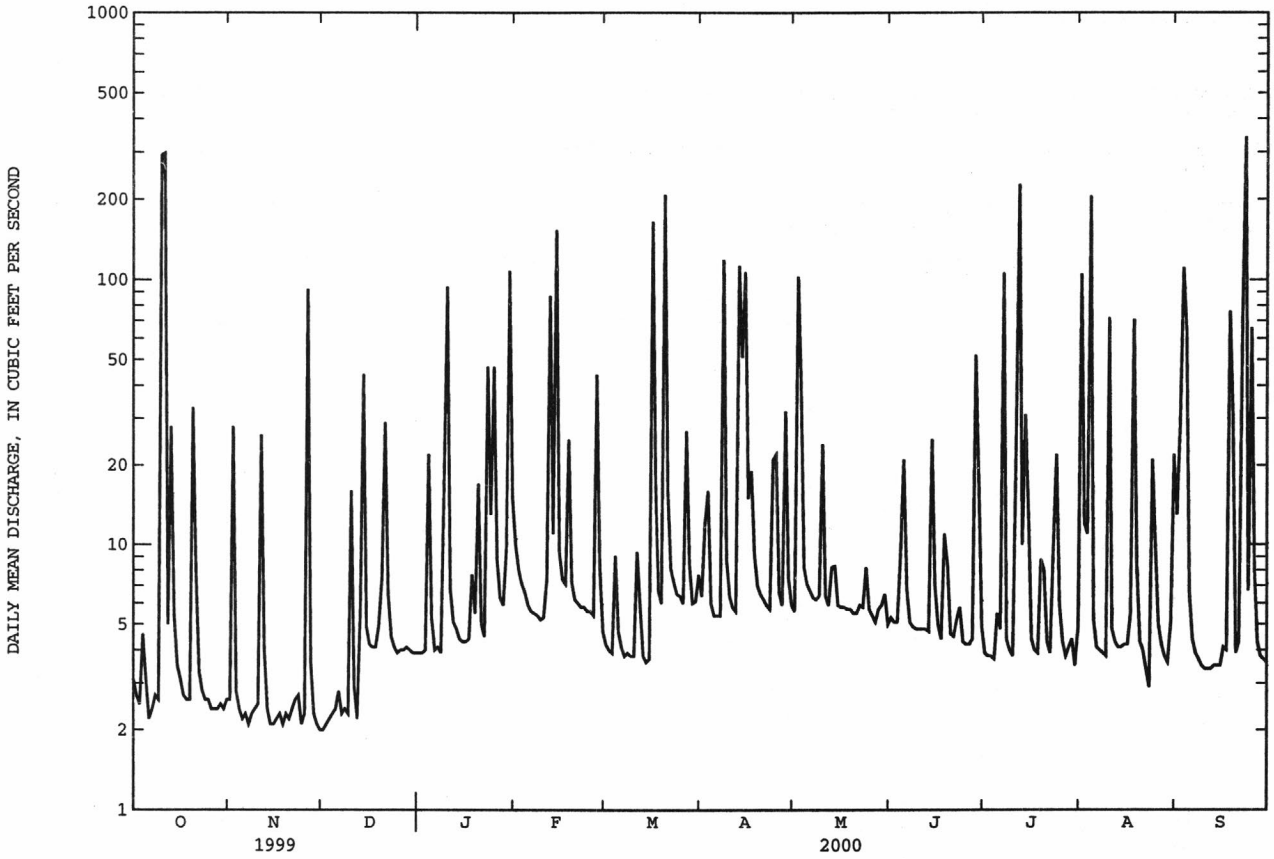
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	17.8	13.8	11.9	27.0	26.1	18.1	23.3	12.6	15.0	25.9	18.5	18.3
MAX	28.9	30.3	23.1	48.5	36.9	26.5	42.0	21.5	20.3	81.8	50.0	29.6
(WY)	1996	1996	1998	1998	1995	1996	1998	1995	1995	1997	1995	2000
MIN	4.56	5.48	6.23	15.5	13.6	8.45	7.06	4.37	8.64	9.61	4.65	10.5
(WY)	1999	1999	2000	1997	1999	1999	1995	1999	2000	1999	1997	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	4666.9		6008.1			
ANNUAL MEAN	12.8		16.4		19.0	
HIGHEST ANNUAL MEAN					23.8	1998
LOWEST ANNUAL MEAN					11.5	1999
HIGHEST DAILY MEAN	357	Jan 23	341	Sep 23	1970	Jul 23 1997
LOWEST DAILY MEAN	2.0	Nov 30	2.0	Nov 30	1.5	Sep 21 1997
ANNUAL SEVEN-DAY MINIMUM	2.1	Nov 28	2.1	Nov 28	1.6	Oct 12 1998
INSTANTANEOUS PEAK FLOW			2770	Jul 12	5310	Jul 23 1997
INSTANTANEOUS PEAK STAGE			11.63	Jul 12	14.83	Jul 23 1997
INSTANTANEOUS LOW FLOW			1.9*	Nov 17	1.2*	Sep 2 1997
ANNUAL RUNOFF (CFSM)	1.05		1.35		1.56	
ANNUAL RUNOFF (INCHES)	14.23		18.32		21.15	
10 PERCENT EXCEEDS	24		30		39	
50 PERCENT EXCEEDS	3.8		5.2		5.8	
90 PERCENT EXCEEDS	2.3		2.5		2.7	

* See REMARKS.

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued



02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current water year.

pH: April 1999 to current water year.

WATER TEMPERATURE: April 1999 to current water year.

DISSOLVED OXYGEN: April 1999 to current water year.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to current water year.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection 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	5220, January 23, 2000	26, October 10, 1999, April 13, 15, 2000
pH, standard units	10.6, March 16, 2000	5.9, April 23, 1999
WATER TEMPERATURE, °C	31.4, July 31, 1999	1.6, January 30, 2000
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	5220, January 23	26, October 10, April 13, 15
pH, standard units	10.6, March 16	6.7, April 5, September 3
WATER TEMPERATURE, °C	28.9, June 18	1.6, January 30
DISSOLVED OXYGEN, mg/L	15.4, October 8, 9	2.2, August 18
DISSOLVED OXYGEN, PERCENT SATURATION,%	184, May 20	29, August 18

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	247	194	223	283	254	277	279	271	276	277	269	272
2	282	246	267	---	---	---	283	276	278	271	267	269
3	300	267	283	---	---	---	283	273	279	277	266	270
4	285	157	248	258	227	245	289	274	283	274	85	213
5	261	231	244	274	241	258	299	278	285	212	153	185
6	272	232	253	288	255	271	306	257	289	239	212	227
7	280	272	276	296	283	290	305	286	290	260	239	249
8	287	274	280	299	291	296	294	271	280	269	257	262
9	288	273	281	297	291	294	287	255	271	274	91	210
10	---	---	---	292	270	285	292	93	212	---	---	---
11	---	---	---	---	---	---	232	169	204	---	---	---
12	---	---	---	---	---	---	261	231	247	---	---	---
13	---	---	---	---	---	---	268	143	230	276	267	272
14	242	169	206	---	---	---	212	96	129	275	270	272
15	280	242	262	---	---	---	231	163	202	279	270	275
16	297	278	289	---	---	---	250	231	241	285	273	278
17	298	290	294	---	---	---	264	250	260	285	261	276
18	324	296	304	281	257	272	281	259	271	1170	255	481
19	309	261	302	281	260	269	282	213	266	524	335	460
20	---	---	---	282	262	268	237	181	216	552	202	255
21	---	---	---	306	280	295	231	70	168	312	267	287
22	---	---	---	305	281	294	206	125	166	342	266	281
23	---	---	---	294	218	255	247	206	225	5220	287	1210
24	---	---	---	288	270	281	260	247	254	2990	373	907
25	---	---	---	289	271	278	268	260	264	3040	432	1350
26	---	---	---	275	72	143	266	258	262	561	400	457
27	---	---	---	204	117	167	269	259	263	458	375	404
28	---	---	---	246	204	228	268	247	262	522	352	431
29	301	278	290	270	240	255	271	260	265	699	302	382
30	296	276	286	278	265	270	275	264	269	1230	135	552
31	285	275	282	---	---	---	277	270	273	502	190	320
MONTH	---	---	---	---	---	---	306	70	248	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	347	280	304	294	270	283	262	222	231	277	252	269
2	303	277	288	293	282	286	---	---	---	---	---	---
3	332	289	298	290	283	286	---	---	---	---	---	---
4	335	296	305	287	187	245	251	185	222	---	---	---
5	321	305	312	235	185	210	273	241	262	---	---	---
6	320	295	303	284	207	254	283	231	272	---	---	---
7	307	268	298	293	283	288	282	239	269	---	---	---
8	306	288	297	303	279	293	283	62	193	---	---	---
9	359	293	305	316	289	301	220	116	177	281	250	270
10	385	286	329	310	295	301	265	189	237	283	77	237
11	430	252	322	304	179	272	284	251	272	281	174	246
12	555	74	208	252	208	228	288	277	283	290	251	283
13	264	110	211	269	214	257	287	26	148	287	166	269
14	226	60	136	292	269	278	224	31	153	239	196	232
15	265	220	247	300	284	290	141	26	81	270	187	249
16	297	265	280	290	58	185	244	110	188	279	249	270
17	309	234	296	235	88	172	273	112	221	290	259	277
18	---	---	---	263	234	250	263	170	223	290	254	281
19	---	---	---	274	263	267	292	263	279	286	248	273
20	---	---	---	---	---	---	310	283	291	283	246	273
21	---	---	---	---	---	---	306	273	290	280	236	270
22	---	---	---	271	232	257	294	282	288	275	232	264
23	---	---	---	286	252	269	293	285	287	277	239	267
24	308	253	296	295	272	284	285	112	238	281	202	251
25	315	306	309	291	277	286	188	112	141	279	235	266
26	312	296	306	287	269	274	255	188	231	280	224	268
27	---	---	---	---	---	---	274	255	266	283	224	273
28	---	---	---	---	---	---	274	105	175	329	227	284
29	275	153	239	272	240	257	234	136	192	267	218	251
30	---	---	---	298	257	275	262	233	247	265	180	222
31	---	---	---	280	217	229	---	---	---	267	228	253
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	276	247	264	---	---	---	251	47	101	---	---	---
2	276	238	264	---	---	---	164	86	136	---	---	---
3	278	245	271	---	---	---	235	51	203	135	40	102
4	270	175	229	---	---	---	193	44	128	146	61	107
5	256	74	196	---	---	---	---	---	---	224	137	189
6	226	167	194	262	216	238	268	251	258	247	224	235
7	251	215	239	263	38	148	---	---	---	264	247	257
8	264	194	229	239	185	219	---	---	---	---	---	---
9	270	214	256	---	---	---	---	---	---	---	---	---
10	268	212	253	---	---	---	---	---	---	---	---	---
11	259	224	252	---	---	---	---	---	---	---	---	---
12	269	215	261	---	---	---	---	---	---	---	---	---
13	279	244	275	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	280	248	275	---	---	---	---	---	---	---	---	---
18	286	152	220	---	---	---	---	---	---	---	---	---
19	211	124	169	---	---	---	---	---	---	---	---	---
20	246	198	231	---	---	---	---	---	---	---	---	---
21	259	227	247	289	229	255	---	---	---	---	---	---
22	275	237	266	---	---	---	---	---	---	---	---	---
23	248	221	235	264	91	251	---	---	---	---	---	---
24	251	230	244	173	87	125	---	---	---	---	---	---
25	260	230	253	200	127	174	---	---	---	---	---	---
26	---	---	---	232	200	223	---	---	---	---	---	---
27	---	---	---	250	216	239	236	222	231	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	7.1	7.2	8.8	7.5	8.0	7.6	7.3	7.4	7.5	7.3	7.4
2	7.7	7.1	7.3	8.5	7.1	7.7	7.5	7.4	7.5	7.6	7.3	7.4
3	8.0	7.3	7.5	7.4	7.1	7.2	7.6	7.4	7.5	7.8	7.3	7.5
4	7.5	7.2	7.3	7.6	7.3	7.4	7.5	7.3	7.3	8.4	7.3	7.5
5	7.7	7.3	7.5	7.6	7.3	7.4	7.4	7.2	7.3	7.5	7.2	7.3
6	8.2	7.3	7.5	7.6	7.3	7.4	7.4	7.1	7.2	7.5	7.3	7.4
7	8.6	7.3	7.7	7.6	7.2	7.4	7.7	7.2	7.4	7.5	7.3	7.4
8	8.8	7.3	7.8	7.8	7.2	7.4	8.1	7.3	7.6	7.6	7.3	7.4
9	8.8	7.3	7.8	7.7	7.2	7.4	8.3	7.6	7.8	7.5	7.1	7.3
10	7.6	7.0	7.2	8.1	7.1	7.4	9.0	7.2	7.8	---	---	---
11	7.3	6.9	7.1	8.0	7.0	7.4	7.6	7.4	7.5	---	---	---
12	7.4	7.3	7.4	7.4	7.0	7.3	7.6	7.4	7.5	---	---	---
13	8.0	7.3	7.5	7.4	7.3	7.4	7.6	7.3	7.5	7.5	7.4	7.4
14	7.6	7.4	7.5	7.6	7.3	7.4	---	---	---	7.5	7.4	7.4
15	7.6	7.5	7.5	7.6	7.4	7.4	---	---	---	7.4	7.3	7.4
16	7.7	7.5	7.6	7.6	7.3	7.5	---	---	---	7.5	7.3	7.4
17	7.8	7.5	7.6	7.8	7.4	7.6	7.6	7.5	7.5	7.6	7.3	7.4
18	8.0	7.5	7.7	7.8	7.5	7.6	7.6	7.4	7.5	7.6	7.3	7.4
19	8.1	7.5	7.7	7.8	7.4	7.5	7.5	7.3	7.4	7.5	7.3	7.4
20	---	---	---	7.9	7.4	7.5	7.5	7.3	7.4	7.5	7.1	7.2
21	---	---	---	7.6	7.2	7.4	8.6	7.2	7.5	7.3	7.1	7.2
22	---	---	---	7.5	7.2	7.4	---	---	---	7.3	7.2	7.3
23	---	---	---	7.6	7.3	7.4	---	---	---	7.4	7.1	7.2
24	---	---	---	7.8	7.3	7.5	---	---	---	7.3	7.1	7.2
25	---	---	---	7.8	7.3	7.5	---	---	---	7.9	7.2	7.4
26	---	---	---	8.6	7.0	7.3	---	---	---	---	---	---
27	---	---	---	7.3	7.1	7.2	---	---	---	---	---	---
28	---	---	---	7.3	7.2	7.2	---	---	---	---	---	---
29	8.7	7.4	7.8	7.4	7.2	7.3	---	---	---	---	---	---
30	8.7	7.5	7.9	7.4	7.3	7.4	7.5	7.3	7.4	---	---	---
31	8.8	7.5	8.0	---	---	---	7.5	7.3	7.4	---	---	---
MONTH	---	---	---	8.8	7.0	7.4	---	---	---	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	7.9	7.5	7.6	7.8	7.2	7.4
2	---	---	---	---	---	---	7.6	7.2	7.4	---	---	---
3	7.4	7.3	7.4	---	---	---	7.4	7.1	7.3	---	---	---
4	7.4	7.3	7.3	---	---	---	7.4	6.9	7.2	---	---	---
5	7.4	7.3	7.4	---	---	---	7.3	6.7	7.0	---	---	---
6	7.4	7.3	7.3	---	---	---	7.7	6.8	7.2	---	---	---
7	7.4	7.3	7.3	7.8	7.3	7.5	8.0	7.2	7.5	---	---	---
8	7.5	7.3	7.4	7.9	7.4	7.5	---	---	---	---	---	---
9	---	---	---	8.3	7.4	7.7	---	---	---	8.9	7.5	8.1
10	---	---	---	8.3	7.4	7.7	---	---	---	9.0	7.3	7.9
11	---	---	---	9.9	7.5	7.9	7.7	7.5	7.6	7.8	7.3	7.5
12	---	---	---	7.6	7.2	7.3	7.7	7.4	7.5	8.1	7.4	7.7
13	---	---	---	7.6	7.3	7.4	7.6	7.1	7.3	8.6	7.4	7.9
14	---	---	---	8.1	7.2	7.5	7.6	7.1	7.3	8.0	7.5	7.7
15	---	---	---	8.3	7.4	7.7	7.3	7.0	7.1	8.3	7.6	7.8
16	---	---	---	---	---	---	7.3	7.0	7.2	8.8	7.5	7.9
17	7.5	7.3	7.4	---	---	---	7.5	7.0	7.2	9.0	7.5	8.1
18	7.4	7.1	7.2	7.7	7.5	7.6	7.3	7.1	7.2	9.2	7.1	8.0
19	7.3	7.1	7.2	7.8	7.5	7.6	7.5	7.0	7.2	9.4	6.8	7.9
20	7.4	7.3	7.3	8.1	7.3	7.5	7.5	6.9	7.2	9.3	7.0	7.9
21	7.5	7.3	7.3	7.7	7.4	7.5	7.8	7.2	7.5	9.2	6.8	7.7
22	7.5	7.3	7.3	7.6	7.4	7.5	7.5	7.1	7.3	---	---	---
23	7.7	7.2	7.4	7.6	7.4	7.5	7.9	7.0	7.4	---	---	---
24	7.6	7.3	7.4	7.6	7.4	7.5	7.8	7.2	7.4	7.7	7.3	7.4
25	7.8	7.3	7.5	7.6	7.4	7.5	7.3	7.2	7.2	8.1	7.3	7.5
26	8.0	7.4	7.5	7.8	7.4	7.6	7.4	7.2	7.3	8.2	7.3	7.6
27	---	---	---	7.6	7.2	7.5	7.6	7.3	7.4	8.3	7.2	7.6
28	---	---	---	7.5	7.1	7.3	7.9	7.1	7.4	8.1	7.0	7.4
29	---	---	---	7.7	7.4	7.5	7.2	7.0	7.1	7.9	7.0	7.3
30	---	---	---	7.8	7.5	7.6	7.4	7.1	7.2	8.3	6.9	7.4
31	---	---	---	7.8	7.3	7.6	---	---	---	8.5	7.0	7.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.6	7.5	7.8	---	---	---	8.6	7.0	7.3	---	---	---
2	8.6	7.5	7.8	---	---	---	7.4	7.2	7.3	---	---	---
3	8.5	7.5	7.9	---	---	---	7.7	7.3	7.5	8.0	6.7	7.0
4	7.7	7.2	7.4	---	---	---	8.7	7.0	7.3	7.4	6.9	7.1
5	7.5	7.1	7.3	---	---	---	---	---	---	7.3	7.1	7.2
6	7.5	7.1	7.2	7.6	7.0	7.2	7.5	7.3	7.4	7.3	7.2	7.2
7	7.7	7.1	7.3	7.5	6.8	7.3	---	---	---	7.3	7.2	7.3
8	8.0	7.2	7.4	7.7	7.4	7.6	---	---	---	---	---	---
9	8.2	7.2	7.5	---	---	---	---	---	---	---	---	---
10	8.4	7.2	7.5	---	---	---	---	---	---	---	---	---
11	8.4	7.2	7.6	---	---	---	---	---	---	---	---	---
12	8.3	7.2	7.6	---	---	---	---	---	---	---	---	---
13	8.2	7.1	7.4	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	8.0	7.3	7.5	---	---	---	---	---	---	---	---	---
18	7.9	7.2	7.4	---	---	---	---	---	---	---	---	---
19	7.4	7.1	7.2	---	---	---	---	---	---	---	---	---
20	7.6	7.1	7.3	---	---	---	---	---	---	---	---	---
21	8.1	7.2	7.4	7.4	7.2	7.3	---	---	---	---	---	---
22	8.1	7.1	7.5	---	---	---	---	---	---	---	---	---
23	8.0	7.2	7.5	8.0	7.4	7.6	---	---	---	---	---	---
24	8.1	7.1	7.4	7.7	7.2	7.3	---	---	---	---	---	---
25	8.3	7.1	7.5	7.3	7.0	7.2	---	---	---	---	---	---
26	---	---	---	7.6	7.2	7.4	---	---	---	---	---	---
27	---	---	---	8.1	7.2	7.5	7.4	7.0	7.2	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.0	17.2	19.0	19.1	16.9	18.0	8.9	6.3	7.5	10.4	8.3	9.4
2	21.5	16.9	19.1	18.7	15.7	18.0	9.3	6.1	7.7	12.7	9.9	11.3
3	22.9	18.9	20.6	15.7	12.0	13.5	10.2	7.2	8.8	14.4	12.1	13.2
4	21.0	19.7	20.5	13.6	10.3	11.9	12.7	9.4	10.9	16.5	13.4	14.4
5	21.3	19.2	19.9	14.1	10.7	12.3	13.9	10.2	12.1	13.4	8.5	10.4
6	21.3	17.4	19.0	15.1	11.2	13.2	15.9	12.1	14.2	9.1	6.8	8.1
7	20.8	17.4	18.8	16.2	12.9	14.5	12.1	9.2	10.4	11.3	8.9	9.7
8	20.6	17.1	18.7	16:6	14.0	15.2	10.7	7.9	9.3	9.7	7.7	8.8
9	21.1	18.5	19.9	17.1	13.8	15.4	11.9	8.5	10.3	10.3	9.1	9.5
10	22.2	20.3	20.7	17.7	14.7	16.1	14.3	11.8	12.9	11.8	9.6	10.8
11	22.0	19.9	20.8	16.5	14.9	15.6	12.7	10.1	11.3	11.6	9.3	10.5
12	21.2	19.0	20.0	16.3	14.5	15.2	10.9	9.0	9.9	11.3	8.9	10.2
13	19.0	17.9	18.4	16.4	13.3	14.9	14.4	10.9	12.3	12.9	9.5	11.0
14	20.9	18.2	19.2	16.9	13.6	15.3	15.5	12.6	14.1	9.5	6.6	7.7
15	19.2	16.5	17.8	15.8	12.9	14.0	12.6	10.4	11.7	7.5	4.9	6.3
16	19.6	16.2	18.0	13.5	10.9	12.0	11.6	9.2	10.3	9.9	5.9	7.8
17	20.1	18.6	19.1	12.4	9.5	10.9	9.9	7.6	8.8	9.7	7.8	8.7
18	20.1	17.7	18.7	12.1	8.9	10.4	10.0	7.4	8.9	7.9	5.7	6.3
19	17.9	16.2	16.6	12.9	9.3	11.3	10.9	9.2	10.0	8.0	5.6	6.7
20	---	---	---	15.2	12.6	13.9	10.8	10.2	10.6	8.6	6.2	7.4
21	---	---	---	15.2	13.4	14.5	11.0	10.0	10.3	6.5	4.4	5.4
22	---	---	---	16.2	14.7	15.4	11.6	10.4	10.8	4.8	3.2	3.9
23	---	---	---	17.7	15.1	16.2	11.3	9.3	10.2	4.5	2.8	3.5
24	---	---	---	18.5	16.0	16.9	9.3	7.0	8.2	4.7	3.7	4.4
25	---	---	---	17.3	16.2	16.8	7.0	4.5	5.5	5.3	3.5	4.3
26	---	---	---	18.1	16.4	17.3	6.6	3.7	5.2	5.1	3.2	4.2
27	---	---	---	16.4	13.5	14.7	7.6	5.0	6.2	4.9	2.3	3.6
28	---	---	---	14.7	12.0	13.4	7.6	5.3	6.4	4.9	2.5	3.7
29	16.7	13.1	14.8	14.1	11.4	12.9	7.9	5.1	6.5	4.6	3.2	4.2
30	16.5	13.6	15.3	11.4	8.0	9.5	8.6	5.5	7.1	3.4	1.6	2.8
31	18.7	15.5	17.0	---	---	---	10.1	7.5	8.7	6.1	3.2	4.5
MONTH	---	---	---	19.1	8.0	14.3	15.9	3.7	9.6	16.5	1.6	7.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.6	3.3	4.9	15.5	10.9	13.2	18.5	13.9	16.2	21.1	15.8	18.2
2	6.4	3.5	5.1	16.0	12.7	14.1	17.1	15.0	16.0	20.9	17.1	18.7
3	7.2	4.1	5.7	13.9	11.1	12.4	19.4	16.2	17.5	20.2	17.1	18.6
4	7.6	5.3	6.4	12.5	11.2	12.0	18.3	13.9	17.0	---	---	---
5	7.4	4.4	5.9	14.4	9.7	12.0	16.1	11.6	13.8	---	---	---
6	7.7	4.5	6.1	16.0	11.2	13.5	18.8	12.3	15.2	---	---	---
7	8.8	5.5	7.2	16.9	12.3	14.6	21.2	14.9	17.4	---	---	---
8	8.9	6.7	7.8	18.1	13.6	15.8	17.6	13.0	15.9	---	---	---
9	10.0	6.4	8.2	18.7	14.8	16.7	15.2	10.6	12.9	24.6	20.0	22.1
10	10.4	7.0	8.8	18.8	15.5	17.3	17.7	11.9	14.7	24.1	20.3	22.0
11	13.5	8.8	10.8	19.0	16.2	17.4	19.0	14.4	16.5	23.8	19.0	21.4
12	12.9	7.8	9.6	17.1	11.8	14.6	19.1	16.3	17.5	25.6	19.8	22.5
13	7.8	7.0	7.4	14.1	9.6	11.8	16.9	10.1	12.2	26.6	21.4	23.7
14	11.4	7.2	9.3	14.8	9.7	12.2	12.2	10.7	11.2	24.9	21.1	22.9
15	11.4	8.5	10.1	16.3	11.5	13.8	14.7	11.6	12.9	23.3	18.3	20.3
16	12.9	9.4	11.0	17.0	13.3	14.8	19.5	13.9	16.5	22.4	17.5	19.8
17	12.4	10.0	11.2	17.6	13.3	15.7	21.1	16.2	18.1	22.4	18.6	20.5
18	10.1	8.1	8.7	13.6	10.1	12.0	18.0	15.8	16.8	24.5	19.9	22.1
19	12.6	8.9	10.4	12.5	10.6	11.6	20.3	15.1	17.5	25.9	20.7	23.1
20	11.7	8.4	10.0	14.8	11.5	12.9	21.5	16.7	18.9	25.8	21.4	23.5
21	11.0	7.6	9.3	15.5	12.3	13.9	21.6	16.8	19.0	24.1	21.9	22.8
22	10.8	7.7	9.3	16.2	12.4	14.3	17.6	14.5	16.0	25.8	21.5	23.2
23	12.6	9.0	10.7	16.9	13.3	14.9	18.8	13.6	16.0	24.2	20.3	22.1
24	13.9	10.2	12.1	17.8	13.3	15.5	18.4	15.7	16.9	24.6	20.9	22.7
25	16.2	11.9	13.9	18.9	14.5	16.7	16.7	13.9	15.0	25.6	22.1	23.5
26	16.6	12.9	14.7	19.4	15.9	17.4	17.0	13.1	14.9	25.4	21.0	23.1
27	17.3	14.3	15.5	16.3	14.5	15.3	19.3	14.1	16.4	25.9	21.6	23.8
28	15.4	12.3	13.9	15.8	12.5	14.1	16.4	14.4	15.2	25.9	22.7	23.7
29	14.7	10.5	12.5	14.7	11.8	13.5	18.1	13.5	15.6	24.2	20.4	22.3
30	---	---	---	16.3	13.2	14.5	20.2	14.7	17.2	24.2	18.2	20.8
31	---	---	---	18.4	14.2	16.1	---	---	---	24.1	18.0	21.0
MONTH	17.3	3.3	9.5	19.4	9.6	14.3	21.6	10.1	15.9	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.3	20.1	23.1	---	---	---	27.1	23.8	24.7	---	---	---
2	27.7	22.0	24.7	---	---	---	26.3	23.7	24.7	---	---	---
3	26.9	23.1	24.8	---	---	---	25.8	24.0	24.8	26.0	24.0	24.5
4	24.4	22.6	23.4	---	---	---	24.8	22.4	23.6	24.8	23.5	24.1
5	22.6	21.7	22.1	---	---	---	---	---	---	24.3	20.6	22.7
6	24.6	20.4	22.2	27.4	24.8	26.1	26.1	24.0	25.1	20.6	18.9	19.4
7	23.7	18.3	20.8	26.5	23.4	25.4	---	---	---	21.8	18.7	20.1
8	24.5	18.9	21.5	26.0	23.5	24.8	---	---	---	---	---	---
9	25.9	20.0	22.8	---	---	---	---	---	---	---	---	---
10	26.8	21.4	23.9	---	---	---	---	---	---	---	---	---
11	27.5	22.0	24.6	---	---	---	---	---	---	---	---	---
12	27.0	22.7	24.8	---	---	---	---	---	---	---	---	---
13	27.9	23.2	25.4	---	---	---	---	---	---	---	---	---
14	28.5	24.1	25.8	---	---	---	---	---	---	---	---	---
15	28.6	24.3	26.0	---	---	---	---	---	---	---	---	---
16	27.6	23.7	25.4	---	---	---	---	---	---	---	---	---
17	28.3	24.0	25.7	---	---	---	---	---	---	---	---	---
18	28.9	24.2	26.3	---	---	---	---	---	---	---	---	---
19	27.4	24.7	25.7	---	---	---	---	---	---	---	---	---
20	26.2	24.0	24.9	---	---	---	---	---	---	---	---	---
21	28.8	23.6	25.9	26.0	23.9	24.8	---	---	---	---	---	---
22	27.8	24.5	25.9	---	---	---	---	---	---	---	---	---
23	28.4	23.8	25.8	25.5	23.9	24.5	---	---	---	---	---	---
24	27.4	23.6	25.3	24.0	22.9	23.5	---	---	---	---	---	---
25	28.7	23.9	25.8	22.9	21.5	21.9	---	---	---	---	---	---
26	---	---	---	23.1	21.1	22.1	---	---	---	---	---	---
27	---	---	---	25.6	22.0	23.7	25.3	24.2	24.7	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.0	5.8	7.2	13.3	7.0	9.1	---	---	---	11.4	9.0	9.9
2	9.8	5.8	7.5	---	---	---	11.4	9.4	10.2	11.4	8.2	9.5
3	11.0	6.4	7.9	---	---	---	11.6	9.2	10.2	11.3	7.7	9.0
4	8.4	6.4	7.1	10.5	8.4	9.2	10.1	7.5	8.6	9.3	7.4	7.9
5	9.6	6.7	7.8	10.8	8.2	9.2	9.2	6.8	7.8	10.1	7.5	8.7
6	12.0	6.3	8.3	10.6	7.6	8.9	9.3	5.4	6.9	11.3	9.1	10.0
7	13.8	6.2	8.7	10.9	7.4	8.5	11.9	6.0	9.0	10.9	9.0	9.6
8	15.4	6.2	9.2	11.3	7.2	8.5	13.1	8.6	10.1	11.9	9.1	10.2
9	15.4	6.0	9.2	10.9	6.7	8.2	13.7	8.5	10.3	10.1	8.8	9.5
10	---	---	---	11.7	6.4	8.2	9.8	8.1	8.4	---	---	---
11	---	---	---	---	---	---	9.9	8.1	8.8	---	---	---
12	---	---	---	---	---	---	10.5	8.7	9.3	---	---	---
13	---	---	---	---	---	---	9.9	8.0	8.5	10.2	8.5	9.1
14	7.7	6.9	7.3	---	---	---	---	---	---	11.3	8.8	10.0
15	8.2	7.1	7.5	---	---	---	---	---	---	11.7	9.9	10.6
16	8.6	6.9	7.6	---	---	---	---	---	---	11.4	8.9	10.1
17	8.7	6.7	7.2	---	---	---	11.3	9.4	10.2	11.2	8.9	9.7
18	9.6	6.6	7.5	12.1	8.9	10.0	11.2	9.3	10.1	10.4	9.3	9.8
19	10.1	7.0	7.9	12.1	8.9	10.1	10.2	8.2	9.2	10.6	9.0	9.7
20	---	---	---	11.9	7.9	9.5	9.5	7.9	8.7	9.7	8.7	9.1
21	---	---	---	10.7	6.0	8.1	---	---	---	10.6	8.8	9.6
22	---	---	---	---	---	---	---	---	---	10.9	9.5	10.2
23	---	---	---	---	---	---	10.2	9.0	9.4	11.6	9.5	10.7
24	---	---	---	10.1	5.9	7.3	10.8	9.2	9.9	10.6	9.8	10.2
25	---	---	---	9.4	5.7	6.7	11.7	9.9	10.9	11.0	9.9	10.4
26	---	---	---	---	---	---	11.8	10.4	11.1	---	---	---
27	---	---	---	---	---	---	11.6	10.3	10.8	---	---	---
28	---	---	---	---	---	---	11.6	10.2	10.7	---	---	---
29	14.1	7.4	9.5	---	---	---	12.0	9.7	10.8	---	---	---
30	14.0	7.4	9.6	---	---	---	11.8	9.6	10.5	---	---	---
31	14.2	7.2	9.4	---	---	---	11.6	9.3	10.1	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	10.7	7.7	8.9	10.1	7.6	8.6	10.0	7.0	8.2
2	---	---	---	---	---	---	8.1	7.2	7.6	---	---	---
3	11.4	10.0	10.7	---	---	---	7.9	6.8	7.3	---	---	---
4	10.7	9.9	10.2	---	---	---	8.4	6.7	7.4	---	---	---
5	11.2	10.0	10.4	---	---	---	9.7	7.7	8.5	---	---	---
6	11.3	9.8	10.4	---	---	---	9.5	7.1	8.2	---	---	---
7	10.9	9.2	10.0	10.8	6.6	8.2	9.2	6.6	7.6	---	---	---
8	10.8	9.1	9.7	10.3	5.6	7.4	---	---	---	---	---	---
9	---	---	---	10.1	5.4	7.0	---	---	---	12.8	6.3	8.7
10	---	---	---	10.9	5.9	7.7	---	---	---	13.9	5.8	8.6
11	---	---	---	11.0	6.3	8.1	9.5	7.3	8.3	8.7	5.7	6.9
12	---	---	---	9.3	7.1	7.8	9.6	7.0	8.0	9.5	6.2	7.4
13	---	---	---	10.7	7.7	8.8	10.7	7.3	9.1	10.3	5.4	7.5
14	---	---	---	11.2	7.2	8.8	10.1	9.1	9.4	---	---	---
15	---	---	---	11.1	6.6	8.4	9.9	8.5	9.3	---	---	---
16	---	---	---	---	---	---	8.7	7.2	8.2	11.2	5.9	7.8
17	10.4	7.9	9.0	---	---	---	8.5	6.8	7.6	11.9	5.8	8.2
18	10.2	9.2	9.8	9.7	7.9	8.9	8.1	6.7	7.3	12.8	5.5	8.3
19	9.8	8.7	9.2	9.9	8.4	9.1	8.2	6.6	7.3	13.6	5.2	8.1
20	10.7	8.8	9.7	---	---	---	8.4	6.6	7.2	14.5	5.1	8.3
21	11.1	9.3	10.0	---	---	---	7.8	6.6	7.0	13.7	5.2	8.3
22	11.2	9.3	10.1	8.9	7.7	8.2	8.4	6.8	7.5	14.2	5.0	8.3
23	11.3	8.8	9.8	8.7	7.4	8.0	8.9	6.9	7.8	14.7	5.0	8.0
24	10.7	8.2	9.2	8.5	7.1	7.7	8.9	6.9	7.5	7.4	4.7	5.5
25	11.1	7.7	8.9	8.3	6.8	7.5	8.0	7.0	7.6	10.0	4.9	6.5
26	11.0	7.6	8.7	8.7	6.8	7.5	8.7	7.2	7.9	10.2	4.7	6.6
27	---	---	---	---	---	---	9.3	7.2	8.0	10.6	5.1	6.9
28	---	---	---	---	---	---	8.4	7.3	7.9	10.2	4.7	6.7
29	10.4	8.3	9.1	9.5	7.3	8.4	8.6	7.0	7.9	9.1	4.4	6.3
30	---	---	---	9.6	7.9	8.5	8.9	7.1	7.9	10.3	5.6	7.2
31	---	---	---	9.4	7.6	8.2	---	---	---	12.3	5.4	8.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.9	5.0	7.5	---	---	---	7.9	5.4	6.9	---	---	---
2	11.3	4.6	7.0	---	---	---	6.8	4.9	6.2	---	---	---
3	10.4	4.5	6.7	---	---	---	7.8	4.9	5.4	7.2	6.3	6.6
4	6.2	4.6	5.3	---	---	---	7.9	6.4	7.1	7.2	6.6	6.8
5	6.9	4.6	5.5	---	---	---	---	---	---	6.9	6.5	6.7
6	8.4	5.2	6.3	8.0	3.8	5.6	7.1	5.8	6.4	7.5	6.7	7.2
7	9.7	5.4	7.0	7.6	4.4	6.1	---	---	---	7.8	6.5	7.2
8	10.3	5.2	7.1	6.9	5.6	6.2	---	---	---	---	---	---
9	10.7	4.6	6.9	---	---	---	---	---	---	---	---	---
10	10.9	4.7	6.8	---	---	---	---	---	---	---	---	---
11	11.5	4.6	7.0	---	---	---	---	---	---	---	---	---
12	11.2	4.6	7.1	---	---	---	---	---	---	---	---	---
13	11.7	4.5	7.0	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	9.5	4.7	6.4	---	---	---	---	---	---	---	---	---
18	8.8	4.2	5.9	---	---	---	---	---	---	---	---	---
19	7.0	4.5	5.4	---	---	---	---	---	---	---	---	---
20	8.0	4.4	5.6	---	---	---	---	---	---	---	---	---
21	9.0	4.6	6.1	6.5	3.7	4.9	---	---	---	---	---	---
22	9.4	4.5	6.4	---	---	---	---	---	---	---	---	---
23	8.2	4.4	5.8	8.9	5.3	6.7	---	---	---	---	---	---
24	9.5	4.5	6.4	7.3	6.3	6.7	---	---	---	---	---	---
25	11.0	5.2	7.0	7.2	6.1	6.6	---	---	---	---	---	---
26	---	---	---	8.5	6.2	7.1	---	---	---	---	---	---
27	---	---	---	9.6	5.8	7.3	7.2	5.3	6.2	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	104	64	80	148	74	99	---	---	---	104	82	89
2	114	64	84	---	---	---	102	82	88	111	79	90
3	132	74	91	---	---	---	106	83	91	114	77	89
4	96	74	81	103	80	87	98	71	80	93	73	79
5	111	75	88	108	80	88	91	66	74	93	72	80
6	140	70	92	108	76	87	97	54	69	100	79	87
7	158	67	97	114	74	86	113	58	83	103	81	87
8	176	67	102	119	73	87	121	77	91	108	81	90
9	178	67	105	116	70	84	129	80	94	93	78	86
10	---	---	---	127	66	85	94	77	82	---	---	---
11	---	---	---	---	---	---	95	77	82	---	---	---
12	---	---	---	---	---	---	97	78	85	---	---	---
13	---	---	---	---	---	---	94	78	82	99	79	85
14	89	77	82	---	---	---	---	---	---	99	78	86
15	92	76	81	---	---	---	---	---	---	100	83	88
16	96	77	82	---	---	---	---	---	---	102	81	88
17	98	73	81	---	---	---	102	84	90	100	79	86
18	109	72	83	116	81	92	102	82	89	86	78	81
19	107	75	83	118	83	95	94	76	84	91	76	81
20	---	---	---	122	80	95	88	73	81	83	73	78
21	---	---	---	109	61	82	---	---	---	88	73	78
22	---	---	---	---	---	---	---	---	---	87	76	80
23	---	---	---	---	---	---	95	82	86	89	75	83
24	---	---	---	111	61	78	96	82	86	84	77	81
25	---	---	---	101	60	71	98	84	89	87	80	82
26	---	---	---	---	---	---	99	87	90	---	---	---
27	---	---	---	---	---	---	100	86	90	---	---	---
28	---	---	---	---	---	---	100	86	90	---	---	---
29	149	74	97	---	---	---	104	82	90	---	---	---
30	147	74	99	---	---	---	103	82	90	---	---	---
31	156	74	101	---	---	---	106	83	90	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	109	77	88	110	79	90	115	77	90
2	---	---	---	---	---	---	85	76	79	---	---	---
3	96	83	88	---	---	---	86	73	78	---	---	---
4	92	82	85	---	---	---	91	72	79	---	---	---
5	95	81	86	---	---	---	101	76	85	---	---	---
6	97	81	86	---	---	---	103	74	84	---	---	---
7	96	79	85	115	68	83	102	71	82	---	---	---
8	95	77	84	112	59	78	---	---	---	---	---	---
9	---	---	---	111	55	75	---	---	---	158	73	103
10	---	---	---	120	62	82	---	---	---	171	68	102
11	---	---	---	120	66	87	104	78	88	105	65	81
12	---	---	---	97	71	79	106	74	87	119	71	88
13	---	---	---	107	74	84	98	75	87	131	65	92
14	---	---	---	114	70	84	96	85	88	---	---	---
15	---	---	---	115	67	84	95	85	90	---	---	---
16	---	---	---	---	---	---	93	79	86	132	66	88
17	100	75	84	---	---	---	93	73	83	140	67	94
18	91	81	87	95	78	85	87	72	78	158	65	99
19	93	81	85	95	80	86	92	72	79	172	62	99
20	101	81	88	---	---	---	97	72	80	184	61	101
21	103	83	90	---	---	---	90	72	77	168	62	99
22	103	83	90	91	78	83	90	72	78	180	60	101
23	107	82	91	90	75	81	98	73	81	177	57	95
24	106	79	88	90	73	79	96	72	80	92	54	66
25	116	77	89	92	73	79	81	74	78	126	58	79
26	116	75	88	97	72	81	93	74	80	128	55	80
27	---	---	---	---	---	---	102	73	85	135	60	85
28	---	---	---	---	---	---	86	77	81	129	56	82
29	104	80	88	96	72	83	93	73	81	112	53	75
30	---	---	---	101	77	86	100	74	84	126	64	84
31	---	---	---	103	77	86	---	---	---	150	64	93
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	151	62	91	---	---	---	98	68	85	---	---	---
2	145	57	87	---	---	---	84	62	77	---	---	---
3	132	56	83	---	---	---	96	61	67	91	78	82
4	76	55	64	---	---	---	97	79	87	88	80	83
5	82	55	65	---	---	---	---	---	---	82	76	80
6	104	61	75	104	47	72	90	73	80	84	77	80
7	118	62	81	93	56	76	---	---	---	90	76	82
8	126	61	83	87	69	76	---	---	---	---	---	---
9	135	56	83	---	---	---	---	---	---	---	---	---
10	141	56	84	---	---	---	---	---	---	---	---	---
11	148	56	87	---	---	---	---	---	---	---	---	---
12	145	56	88	---	---	---	---	---	---	---	---	---
13	153	55	89	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	126	58	81	---	---	---	---	---	---	---	---	---
18	117	54	76	---	---	---	---	---	---	---	---	---
19	91	57	69	---	---	---	---	---	---	---	---	---
20	102	55	70	---	---	---	---	---	---	---	---	---
21	121	57	78	82	46	61	---	---	---	---	---	---
22	124	56	82	---	---	---	---	---	---	---	---	---
23	108	56	73	110	66	83	---	---	---	---	---	---
24	124	55	81	89	75	82	---	---	---	---	---	---
25	147	64	89	85	73	78	---	---	---	---	---	---
26	---	---	---	102	73	84	---	---	---	---	---	---
27	---	---	---	120	68	89	90	67	77	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

USGS gaging station at the Northeast Cape Fear River near Chinquapin.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'07", long 80°46'18", Mecklenburg County, Hydrologic Unit 03050103, 400 ft upstream from bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi^2 (revised).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 672.00 ft above sea level (City of Charlotte benchmark). Radio telemetry at station.

REMARKS.--Records poor. Minimum discharge for current water year also occurred Oct. 6,7, June 26, 27, July 3, 4, 10, 11, 21, and Aug. 15. Maximum discharge for period of record and current water year from rating curve extended above 76 ft^3/s by step-backwater analysis. No flow occurred periodically in Aug. and Sept. 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	1.1	.64	1.0	7.0	3.2	2.4	1.6	2.2	.47	36	3.2
2	.43	15	.72	1.1	4.4	3.5	5.4	137	2.0	.49	28	125
3	.46	.76	.72	.91	4.0	3.5	6.9	14	2.0	.35	3.1	9.2
4	1.5	.46	1.5	5.7	3.3	6.7	3.8	1.8	3.0	.27	105	91
5	.62	1.0	1.5	1.6	3.0	2.8	3.6	1.7	6.2	.81	1.5	5.7
6	.25	1.1	1.6	1.3	2.7	2.5	4.7	1.7	1.5	2.2	1.2	1.5
7	.37	.91	1.3	1.6	3.3	3.0	4.9	1.8	1.2	4.9	1.2	1.3
8	.66	.98	1.5	1.9	3.5	3.2	41	2.2	1.5	1.0	1.8	1.2
9	.83	.86	3.6	6.1	3.6	3.3	4.8	2.4	2.0	.65	2.4	1.2
10	82	.76	7.5	39	3.5	3.5	3.9	2.7	1.9	.69	17	1.1
11	213	12	1.3	3.3	3.1	4.5	4.1	2.9	1.8	1.5	.61	1.4
12	2.7	1.4	1.6	1.7	41	2.6	4.4	3.0	1.7	46	.46	1.0
13	23	.57	3.3	1.5	5.5	1.8	40	4.7	1.5	2.2	.49	.60
14	2.6	1.2	21	1.5	93	2.0	15	2.9	6.1	22	.86	.78
15	1.2	1.3	1.2	1.5	5.8	1.7	45	2.0	1.3	4.7	.56	.82
16	.94	1.1	.81	1.9	3.9	28	5.9	2.4	.51	.49	.49	.93
17	.80	1.0	1.2	2.0	3.0	6.7	4.9	2.7	.41	.42	.69	.92
18	1.0	1.3	2.4	4.0	12	2.7	2.3	2.9	1.0	.40	22	30
19	1.1	1.4	3.3	2.1	3.6	2.7	.97	2.9	1.4	1.4	1.7	13
20	16	2.2	5.0	7.3	2.8	106	1.3	3.0	.49	2.3	.40	1.2
21	4.6	2.3	11	1.6	2.7	11	1.7	3.4	.65	.42	.32	1.4
22	1.6	1.4	2.9	1.7	2.5	4.7	1.9	3.7	1.5	.41	.41	35
23	.97	.81	2.2	19	2.5	3.5	1.8	3.2	1.1	1.2	.46	432
24	1.1	1.4	2.2	7.2	2.7	3.1	6.0	4.3	.94	6.6	4.1	11
25	1.2	2.1	2.3	21	2.8	2.7	9.4	2.6	.71	2.0	2.9	35
26	1.2	27	1.9	5.4	2.7	2.7	1.5	2.6	.32	1.1	.33	6.1
27	1.1	1.9	2.2	2.9	15	11	1.4	2.4	.35	.95	.36	2.7
28	1.1	.96	1.8	2.3	3.8	4.3	12	3.0	7.3	1.2	.48	1.9
29	.85	.68	1.5	3.6	2.9	2.7	2.1	3.1	5.1	1.2	.59	1.4
30	.80	.62	1.7	61	---	2.6	1.6	2.0	.88	1.3	1.0	1.2
31	.96	---	1.4	11	---	2.4	---	2.1	---	2.1	3.8	---
TOTAL	365.52	85.57	92.79	223.71	249.6	244.6	244.67	228.7	58.56	111.72	240.21	818.75
MEAN	11.8	2.85	2.99	7.22	8.61	7.89	8.16	7.38	1.95	3.60	7.75	27.3
MAX	213	27	21	61	93	106	45	137	7.3	46	105	432
MIN	.25	.46	.64	.91	2.5	1.7	.97	1.6	.32	.27	.32	.60
CFSM	2.27	.55	.58	1.39	1.66	1.52	1.57	1.42	.38	.69	1.49	5.25
IN.	2.61	.61	.66	1.60	1.79	1.75	1.75	1.64	.42	.80	1.72	5.86

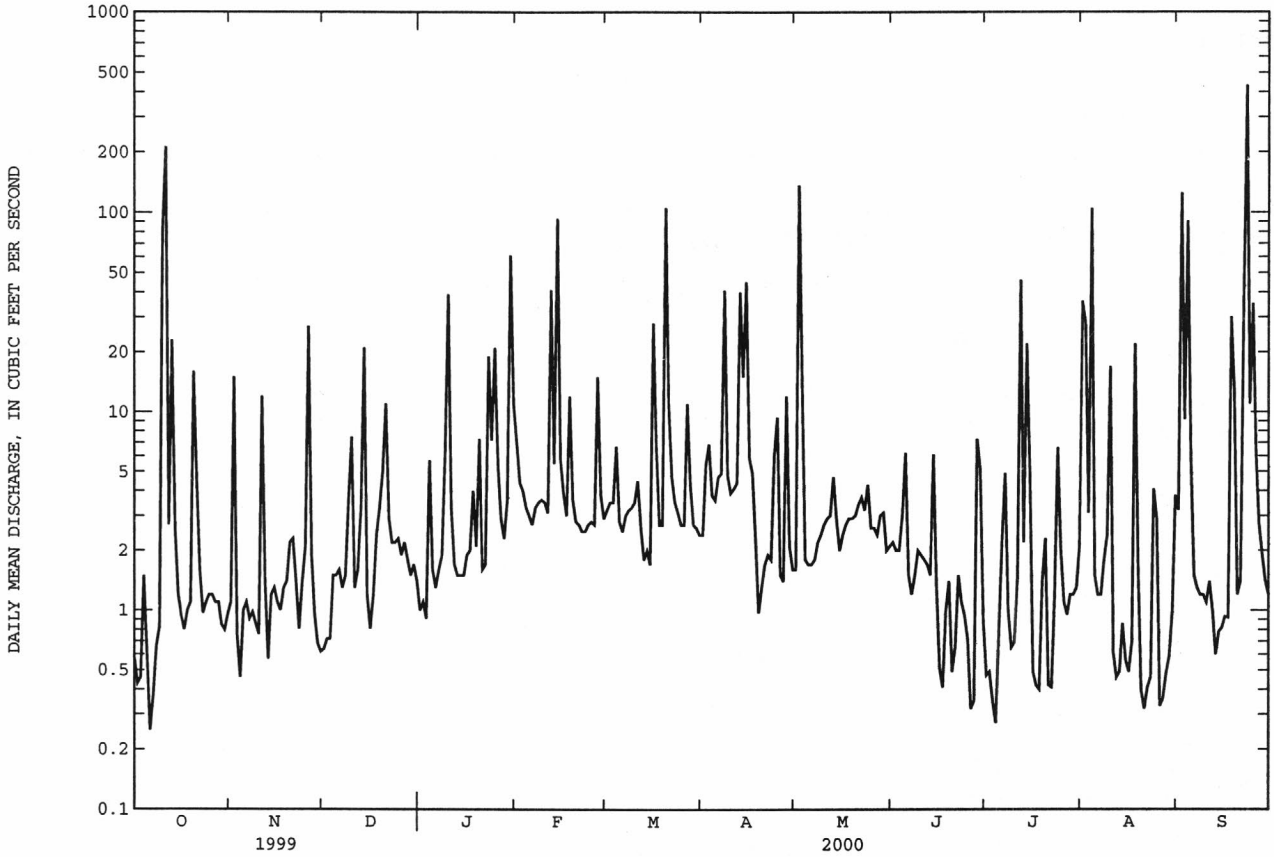
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	6.64	2.73	4.42	14.4	7.68	5.37	15.6	4.09	3.34	3.85	5.56	12.3
MAX	11.8	2.85	5.84	21.6	8.61	7.89	30.5	7.38	4.23	3.99	8.04	27.3
(WY)	2000	2000	1999	1999	2000	2000	1998	2000	1998	1998	1998	2000
MIN	1.50	2.61	2.99	7.22	6.73	2.85	7.96	1.99	1.95	3.60	.90	4.15
(WY)	1999	1999	2000	2000	1999	1999	1999	1999	2000	2000	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	2182.67		2964.40			
ANNUAL MEAN	5.98		8.10		6.72	
HIGHEST ANNUAL MEAN					8.10	2000
LOWEST ANNUAL MEAN					5.33	1999
HIGHEST DAILY MEAN	340	Jan 23	432	Sep 23	432	Sep 23 2000
LOWEST DAILY MEAN	.00	Aug 18	.25	Oct 6	.00	Aug 18 1999
ANNUAL SEVEN-DAY MINIMUM	.06	Aug 13	.59	Aug 11	.06	Aug 13 1999
INSTANTANEOUS PEAK FLOW			3100*	Sep 23	3100*	Sep 23 2000
INSTANTANEOUS PEAK STAGE			6.46	Sep 23	6.46	Sep 23 2000
INSTANTANEOUS LOW FLOW			.17*	Oct 5	.00*	Aug 18 1999
ANNUAL RUNOFF (CFSM)	1.15		1.56		1.29	
ANNUAL RUNOFF (INCHES)	15.61		21.21		17.55	
10 PERCENT EXCEEDS	10		12		11	
50 PERCENT EXCEEDS	1.6		2.0		1.8	
90 PERCENT EXCEEDS	.31		.62		.42	

* See REMARKS.

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued



0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

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

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection 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	658, January 23, 2000	24, September 23, 2000
pH, standard units	9.3, August 8, 1999	5.7, April 27, 1999
WATER TEMPERATURE, °C	33.9, August 14, 1999	0.2, January 28, 2000
DISSOLVED OXYGEN, mg/L	17.2, April 25, 1999	2.0, June 16, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	200, April 25, 1999	21, April 17, 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	658, January 23	24, September 23
pH, standard units	8.8, March 8, 9, July 9	6.1, October 11, July 14, August 4
WATER TEMPERATURE, °C	31.1, July 10	0.2, January 28
DISSOLVED OXYGEN, mg/L	15.3, March 15	2.0, June 16
DISSOLVED OXYGEN, PERCENT SATURATION,%	175, July 4	24, June 16

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	109	94	102	163	160	162	160	154	158	158	155	156
2	116	109	112	164	46	91	161	159	160	157	152	155
3	132	116	119	112	78	97	165	159	162	156	153	154
4	141	125	135	130	112	122	166	161	163	157	89	132
5	125	119	122	143	130	137	171	162	165	124	91	108
6	130	124	126	150	143	146	171	161	164	142	124	134
7	136	130	132	155	150	153	162	160	161	150	142	146
8	141	136	138	161	155	158	164	157	162	155	149	153
9	146	140	142	182	161	170	160	157	159	158	78	134
10	148	33	102	182	171	175	162	91	130	94	43	71
11	98	39	73	172	72	141	124	98	112	128	94	113
12	121	98	112	135	85	112	139	124	132	141	128	136
13	122	45	79	145	128	136	145	113	136	149	141	147
14	121	98	111	154	144	150	117	51	82	153	149	151
15	132	121	127	160	154	157	126	100	114	157	152	155
16	142	132	137	165	160	163	139	126	134	161	156	159
17	151	141	146	167	164	165	145	139	142	160	159	160
18	152	149	151	166	163	164	143	140	141	159	126	142
19	154	149	152	165	163	164	143	140	142	180	150	175
20	150	57	93	168	164	166	141	117	127	175	108	130
21	103	60	84	179	168	171	136	62	105	142	131	138
22	126	103	116	197	179	188	115	74	99	149	142	146
23	139	126	133	199	161	185	132	115	125	658	138	325
24	146	139	142	163	160	161	143	132	139	342	216	253
25	151	146	149	172	163	168	147	142	145	547	275	399
26	154	151	152	175	51	100	150	147	149	275	202	230
27	155	153	154	120	82	104	152	149	151	202	188	195
28	167	155	160	140	120	132	154	150	152	190	183	187
29	169	165	166	153	140	148	156	152	153	382	172	185
30	165	160	162	154	147	150	156	152	154	382	76	167
31	163	159	161	---	---	---	157	152	155	186	120	149
MONTH	169	33	129	199	46	148	171	51	141	658	43	167

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	254	134	173	160	154	157	172	162	166	163	157	159
2	156	133	147	163	157	160	177	131	161	168	43	149
3	153	146	149	165	160	163	136	104	122	123	59	97
4	156	147	150	173	101	146	159	133	151	143	123	134
5	157	154	155	147	111	132	166	159	164	154	143	149
6	159	157	158	155	147	152	175	165	169	164	154	157
7	160	157	158	163	153	158	176	169	172	177	162	167
8	161	158	159	166	155	161	181	50	131	173	163	169
9	164	160	162	169	156	163	138	87	116	173	167	170
10	162	158	161	173	158	166	156	138	150	172	167	170
11	166	158	161	173	134	164	165	156	163	178	167	173
12	184	56	113	148	134	140	172	163	168	190	176	184
13	145	106	130	160	148	156	173	43	107	195	130	185
14	141	38	89	164	155	160	131	64	110	148	133	139
15	145	120	136	171	157	164	87	58	72	159	148	155
16	154	145	149	170	46	114	136	83	115	166	159	163
17	158	153	156	131	65	108	147	96	132	165	163	164
18	157	96	114	152	131	142	146	99	126	166	162	165
19	150	131	143	157	152	154	163	146	154	178	166	171
20	156	147	152	159	33	93	172	162	165	173	169	171
21	159	156	158	141	91	119	174	168	171	174	168	171
22	163	159	162	160	138	146	177	169	173	174	165	169
23	168	161	164	174	150	160	180	171	175	168	164	166
24	164	159	162	183	161	170	185	87	162	167	149	160
25	166	160	163	198	166	178	112	63	88	165	155	160
26	171	163	167	212	169	190	162	112	134	168	162	165
27	173	68	141	213	76	158	169	154	160	173	165	168
28	142	84	121	165	81	125	163	70	112	175	165	169
29	154	142	148	186	150	165	145	101	129	165	142	148
30	---	---	---	189	166	177	158	145	151	161	152	156
31	---	---	---	172	158	166	---	---	---	162	158	160
MONTH	254	38	148	213	33	152	185	43	142	195	43	161

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	166	161	164	135	118	125	153	35	57	114	63	104
2	170	162	165	142	133	136	86	27	62	78	26	58
3	171	167	169	148	140	144	85	49	69	89	57	72
4	171	156	162	153	144	148	83	28	60	85	27	64
5	162	92	133	158	152	155	106	81	96	112	74	98
6	128	94	112	160	149	155	123	106	114	127	112	121
7	148	128	139	149	85	106	135	122	128	138	127	132
8	157	148	150	123	109	114	141	135	137	144	138	141
9	159	154	156	132	122	125	148	140	143	155	144	149
10	162	158	159	143	131	135	149	56	82	158	154	156
11	164	160	162	143	120	126	108	83	95	163	158	160
12	165	161	163	132	31	82	120	108	114	163	153	159
13	167	162	164	92	63	79	131	120	125	160	156	158
14	166	74	151	110	41	96	144	131	136	162	158	160
15	122	76	101	90	52	77	157	144	150	164	160	162
16	144	122	133	108	90	99	168	156	161	164	161	162
17	154	143	149	119	108	113	167	160	163	164	160	162
18	160	143	156	128	119	123	164	59	135	164	32	145
19	143	121	131	134	102	129	86	65	77	78	38	62
20	151	137	143	110	87	99	101	85	92	94	78	86
21	160	151	154	122	110	114	116	100	108	245	94	141
22	160	124	137	136	122	126	126	116	120	201	37	118
23	136	121	131	143	120	137	134	125	128	75	24	58
24	137	127	133	128	67	82	136	81	129	110	75	94
25	140	130	136	110	99	106	92	77	84	123	50	98
26	157	140	146	122	109	116	110	92	100	102	63	83
27	163	155	158	131	122	125	120	110	113	119	102	113
28	165	67	143	139	131	133	128	120	123	137	117	127
29	100	70	85	143	136	139	132	127	128	145	134	140
30	119	96	108	148	141	144	138	132	134	152	145	148
31	---	---	---	154	143	149	144	84	105	---	---	---
MONTH	171	67	143	160	31	121	168	27	112	245	24	121

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	7.1	7.3	7.3	7.1	7.2	7.1	6.9	6.9	7.6	7.3	7.4
2	7.6	7.3	7.4	7.3	6.5	6.8	7.1	7.0	7.1	7.7	7.2	7.4
3	7.6	7.3	7.4	7.0	6.7	6.8	7.2	6.9	7.0	7.8	7.2	7.4
4	7.5	7.2	7.3	7.1	6.9	7.0	7.2	6.9	7.0	7.6	6.9	7.2
5	7.4	7.1	7.2	7.2	7.0	7.1	7.2	7.0	7.1	7.2	6.9	7.1
6	7.5	6.9	7.2	7.2	7.1	7.1	7.3	6.9	7.1	7.3	7.0	7.1
7	7.6	7.1	7.2	7.3	7.1	7.2	7.4	7.0	7.2	7.5	7.1	7.2
8	7.3	7.1	7.2	7.2	7.1	7.2	7.4	7.0	7.2	7.6	7.1	7.3
9	7.2	7.0	7.1	7.2	7.1	7.2	7.6	7.0	7.2	7.4	6.8	7.1
10	7.0	6.3	6.7	7.3	7.1	7.2	7.6	6.9	7.3	6.8	6.5	6.7
11	6.6	6.1	6.4	7.3	6.8	7.1	6.9	6.3	6.5	7.0	6.8	6.9
12	6.7	6.5	6.6	7.1	6.8	6.9	6.8	6.2	6.4	7.1	6.9	7.0
13	6.8	6.5	6.6	7.2	7.0	7.1	7.1	6.6	6.8	7.2	7.0	7.1
14	7.1	6.8	6.9	7.3	7.2	7.2	7.0	6.6	6.8	7.1	6.9	7.1
15	7.4	7.1	7.2	7.3	7.2	7.3	7.1	6.7	6.9	7.2	7.0	7.1
16	7.6	7.3	7.5	7.3	7.3	7.3	7.3	6.9	7.1	7.3	7.0	7.2
17	7.6	7.4	7.5	7.3	7.2	7.3	7.4	7.2	7.3	7.4	7.1	7.2
18	---	---	---	7.2	7.1	7.2	7.4	7.2	7.3	7.1	6.9	7.0
19	---	---	---	7.2	7.2	7.2	7.5	7.2	7.3	7.2	6.9	7.0
20	---	---	---	7.2	7.2	7.2	7.3	7.2	7.3	7.1	6.8	6.9
21	7.1	6.9	7.0	7.2	7.1	7.1	7.3	7.0	7.1	6.9	6.8	6.8
22	7.2	7.0	7.1	7.1	7.0	7.0	7.2	7.0	7.1	7.0	6.8	6.9
23	7.3	7.1	7.1	7.3	6.9	7.1	7.3	7.1	7.2	6.9	6.6	6.8
24	7.2	7.1	7.2	7.3	7.1	7.2	7.2	7.1	7.2	7.0	6.8	6.9
25	7.2	7.1	7.2	7.3	7.1	7.2	7.2	7.1	7.2	6.8	6.6	6.7
26	7.2	7.2	7.2	7.3	6.4	6.7	7.2	7.1	7.2	6.8	6.7	6.8
27	7.3	7.2	7.2	6.9	6.6	6.8	7.2	7.0	7.1	7.0	6.8	6.9
28	7.3	7.2	7.2	7.0	6.8	6.9	7.2	7.1	7.1	7.1	6.9	7.0
29	7.3	7.1	7.2	6.9	6.8	6.9	7.4	7.1	7.2	7.1	7.0	7.1
30	7.3	7.1	7.2	7.0	6.9	6.9	7.5	7.2	7.4	7.0	6.4	6.7
31	7.4	7.2	7.3	---	---	---	7.5	7.3	7.4	7.0	6.8	6.9
MONTH	---	---	---	7.3	6.4	7.1	7.6	6.2	7.1	7.8	6.4	7.0

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.1	6.9	7.0	7.5	6.8	7.0	8.0	7.1	7.4	7.5	7.1	7.3
2	7.1	7.0	7.1	8.0	6.8	7.2	7.5	7.2	7.4	---	---	---
3	7.1	7.0	7.0	8.1	6.9	7.3	7.4	7.1	7.2	---	---	---
4	7.0	7.0	7.0	7.3	6.8	7.0	7.7	7.0	7.2	---	---	---
5	7.1	6.9	7.0	7.4	6.7	7.0	7.6	6.9	7.1	---	---	---
6	7.0	6.9	6.9	8.3	6.9	7.3	7.8	6.8	7.1	---	---	---
7	7.0	6.8	6.9	8.6	7.0	7.6	8.0	6.9	7.3	---	---	---
8	7.2	6.8	6.9	8.8	7.1	7.7	7.2	6.6	6.9	---	---	---
9	7.1	6.9	7.0	8.8	7.1	7.8	7.0	6.6	6.8	7.5	7.0	7.2
10	7.1	6.9	7.0	8.7	7.1	7.7	7.2	6.8	7.0	7.5	7.1	7.3
11	7.2	6.9	7.0	8.5	7.0	7.5	7.3	7.0	7.2	7.6	7.1	7.3
12	7.0	6.3	6.6	7.8	6.8	7.2	7.3	7.1	7.2	7.6	7.1	7.3
13	6.8	6.6	6.7	7.9	7.0	7.4	7.1	6.8	7.0	7.7	7.0	7.3
14	6.8	6.2	6.5	8.3	7.1	7.5	7.2	6.9	7.1	7.3	6.7	6.9
15	6.8	6.6	6.7	8.5	7.1	7.6	7.0	6.8	6.9	7.7	6.8	7.1
16	6.9	6.8	6.8	7.8	6.4	6.9	7.2	6.9	7.0	7.8	6.9	7.2
17	7.0	6.8	6.9	7.0	6.6	6.8	7.2	6.9	7.0	8.0	7.0	7.3
18	6.9	6.7	6.8	7.1	6.8	6.9	7.1	6.9	7.0	8.1	7.0	7.4
19	7.0	6.8	6.9	7.2	6.9	7.0	7.1	7.0	7.0	7.8	7.0	7.3
20	7.1	6.9	7.0	7.0	6.3	6.6	7.2	7.0	7.1	7.5	7.0	7.2
21	7.1	6.9	7.0	6.7	6.5	6.6	7.3	7.0	7.1	7.3	6.9	7.1
22	7.2	6.9	7.0	6.7	6.6	6.6	7.4	7.0	7.1	7.4	6.9	7.1
23	7.1	6.9	7.0	6.7	6.6	6.6	7.4	7.1	7.2	7.4	6.9	7.1
24	7.3	6.9	7.0	6.8	6.6	6.7	7.3	6.7	7.0	7.4	6.9	7.1
25	7.5	6.9	7.1	6.8	6.6	6.7	6.9	6.7	6.8	7.2	6.7	6.9
26	7.9	6.9	7.2	6.9	6.6	6.7	7.2	6.9	7.0	7.3	6.8	7.0
27	7.8	6.5	7.0	6.8	6.2	6.6	7.3	7.0	7.1	7.3	6.8	7.0
28	7.0	6.5	6.8	6.6	6.2	6.4	7.1	6.7	6.9	7.3	6.7	6.9
29	7.2	6.8	6.9	7.0	6.5	6.8	7.2	6.9	7.1	7.2	6.7	6.9
30	---	---	---	7.3	6.8	7.1	7.4	7.1	7.2	7.3	6.7	7.0
31	---	---	---	7.7	6.9	7.2	---	---	---	7.6	6.8	7.1
MONTH	7.9	6.2	6.9	8.8	6.2	7.1	8.0	6.6	7.1	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.0	7.2	8.3	6.9	7.2	7.2	6.4	6.6	7.1	6.3	6.6
2	8.0	7.1	7.4	8.5	6.8	7.3	6.8	6.3	6.6	6.7	6.2	6.5
3	7.6	7.2	7.4	8.4	6.9	7.4	6.7	6.4	6.5	7.0	6.6	6.8
4	7.3	6.6	7.0	8.6	6.7	7.4	6.7	6.1	6.4	6.8	6.4	6.7
5	7.0	6.6	6.8	8.1	6.8	7.3	6.6	6.5	6.5	7.0	6.6	6.8
6	7.1	6.7	6.9	7.9	6.8	7.2	6.7	6.6	6.6	6.7	6.6	6.6
7	7.4	6.9	7.1	7.2	6.8	7.0	6.9	6.6	6.7	6.9	6.7	6.8
8	7.5	7.1	7.2	8.7	6.8	7.4	6.8	6.4	6.6	7.1	6.8	7.0
9	7.5	7.2	7.3	8.8	7.0	7.7	6.9	6.6	6.8	7.0	6.9	6.9
10	7.4	7.1	7.3	8.7	7.0	7.6	6.8	6.3	6.5	7.1	6.9	7.0
11	7.4	7.0	7.1	8.1	6.7	7.1	6.9	6.5	6.7	7.3	7.0	7.1
12	7.2	7.0	7.1	7.0	6.2	6.6	7.0	6.6	6.8	7.5	7.1	7.3
13	7.2	6.9	7.0	6.5	6.3	6.4	7.1	6.8	6.9	7.7	7.1	7.3
14	7.2	6.6	6.9	6.7	6.1	6.4	7.2	6.8	7.0	8.1	7.3	7.5
15	6.7	6.5	6.6	6.6	6.2	6.4	7.5	6.9	7.1	8.2	7.2	7.4
16	6.9	6.6	6.7	6.8	6.4	6.6	7.6	7.0	7.2	7.9	7.0	7.4
17	7.0	6.7	6.8	7.1	6.6	6.8	8.2	7.0	7.3	8.3	7.2	7.4
18	7.2	6.8	6.9	7.2	6.8	7.0	8.5	6.3	7.1	7.5	6.8	7.2
19	7.0	6.7	6.8	7.2	6.8	7.0	6.8	6.6	6.7	7.0	6.8	6.9
20	7.0	6.7	6.8	6.8	6.4	6.6	6.9	6.7	6.8	7.1	6.9	7.0
21	7.2	6.8	7.0	7.0	6.5	6.7	7.1	6.7	6.9	7.1	6.9	7.0
22	7.2	6.7	6.9	7.4	6.8	7.0	7.2	6.9	7.0	7.1	6.7	6.9
23	7.5	6.6	7.0	7.4	7.0	7.1	7.2	6.7	6.9	7.1	6.6	6.8
24	7.8	6.8	7.2	7.3	6.9	7.0	7.2	6.7	7.0	6.8	6.7	6.8
25	8.0	6.9	7.3	7.1	6.8	7.0	6.9	6.6	6.8	6.8	6.6	6.7
26	8.2	7.1	7.5	7.3	6.8	7.0	7.1	6.8	6.9	6.9	6.8	6.9
27	8.4	7.2	7.6	8.3	7.0	7.2	7.0	6.8	6.9	7.0	6.9	6.9
28	8.3	6.9	7.4	8.2	7.0	7.4	7.2	6.8	7.0	7.0	6.8	6.9
29	7.0	6.7	6.9	8.6	7.0	7.5	7.5	6.8	7.1	7.1	6.9	7.0
30	8.0	6.9	7.2	8.3	6.9	7.4	7.4	6.8	7.1	7.1	7.0	7.1
31	---	---	---	8.1	7.0	7.4	7.0	6.6	6.8	---	---	---
MONTH	8.4	6.5	7.1	8.8	6.1	7.1	8.5	6.1	6.8	8.3	6.2	7.0

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.3	15.7	17.9	18.0	15.1	16.4	7.6	4.2	5.9	9.0	6.4	7.7
2	22.0	15.3	18.2	18.3	14.7	17.1	7.7	3.4	5.6	12.1	8.4	10.2
3	22.8	17.4	19.6	14.7	10.5	12.6	8.8	4.8	6.8	14.0	10.9	12.4
4	19.8	18.5	19.3	12.9	8.2	10.2	11.8	7.1	9.1	14.9	12.1	13.5
5	21.0	17.8	19.1	13.1	8.1	10.4	12.4	7.7	10.2	12.1	6.6	9.4
6	21.4	15.9	18.2	14.1	9.0	11.3	14.9	11.5	13.0	7.5	4.0	6.2
7	20.6	15.8	17.8	15.6	10.5	12.7	11.5	7.8	9.3	11.2	7.4	8.7
8	20.4	15.5	17.8	16.4	12.1	13.8	9.1	5.4	7.2	8.3	5.3	7.1
9	20.4	17.2	18.8	16.6	12.0	14.0	10.0	5.8	8.0	8.8	7.4	8.0
10	21.0	19.2	19.9	17.7	12.8	14.9	13.7	9.8	11.4	12.1	8.7	10.3
11	21.2	19.7	20.4	15.1	13.4	14.4	11.2	8.0	9.5	11.8	7.9	9.7
12	20.3	18.6	19.4	16.2	13.5	14.5	9.2	6.4	7.7	10.9	6.9	9.0
13	18.6	17.5	17.8	16.2	11.5	13.6	12.6	9.2	10.7	13.0	8.8	10.2
14	20.1	17.3	18.5	16.9	11.8	14.1	14.4	11.1	13.3	9.2	4.9	6.9
15	18.2	15.0	16.6	15.1	11.7	13.3	11.7	8.3	10.2	6.5	2.5	4.7
16	19.4	14.8	16.9	12.6	9.0	10.7	10.5	7.4	9.0	9.4	4.2	6.7
17	18.8	17.7	18.1	10.9	7.1	8.8	8.6	5.2	7.0	9.0	6.5	7.7
18	20.1	16.7	18.0	10.7	6.1	8.3	8.7	5.2	7.1	6.6	3.7	4.6
19	16.7	15.1	15.6	11.9	6.6	9.2	9.6	7.9	8.8	6.6	4.0	5.2
20	15.4	14.7	15.1	14.1	10.2	11.9	10.2	9.1	9.6	9.2	4.9	6.8
21	16.0	13.1	14.5	13.2	11.3	12.4	9.9	8.5	9.2	5.8	2.3	3.9
22	15.7	11.7	13.7	15.1	13.1	14.0	11.4	9.0	10.1	3.0	.5	1.8
23	15.8	12.2	13.6	16.4	13.4	14.8	10.7	7.7	8.9	3.2	.5	2.1
24	13.9	10.1	11.7	18.1	14.7	16.0	7.7	5.2	6.6	3.3	1.6	2.7
25	13.6	9.1	11.0	16.6	15.1	15.8	5.9	2.9	4.4	4.5	1.7	3.3
26	14.2	9.2	11.3	17.8	15.3	16.6	5.6	1.4	3.5	5.5	1.7	3.2
27	14.8	10.1	12.1	15.3	11.9	13.5	6.4	2.7	4.6	4.6	.4	2.2
28	15.1	10.8	12.6	14.3	9.9	12.0	6.4	2.8	4.8	4.4	.2	2.1
29	15.4	10.8	12.8	13.4	10.0	11.7	6.8	3.0	4.9	3.5	2.0	2.7
30	15.5	11.2	13.2	10.0	6.6	8.4	7.2	3.2	5.4	3.0	1.1	2.3
31	18.5	13.0	15.1	---	---	---	9.1	5.9	7.4	5.9	2.7	3.8
MONTH	22.8	9.1	16.3	18.3	6.1	12.9	14.9	1.4	8.0	14.9	.2	6.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.7	1.8	3.9	16.6	9.1	12.7	20.2	12.5	16.3	21.7	13.8	17.4
2	7.1	1.7	4.2	16.9	11.1	13.8	16.8	14.4	15.5	20.5	15.9	18.0
3	7.8	2.2	4.8	13.6	9.3	11.6	20.4	15.7	17.7	19.8	16.7	18.1
4	7.7	3.6	5.5	11.9	9.8	10.9	18.8	13.6	16.9	21.0	16.2	18.4
5	7.9	2.7	5.1	15.9	7.7	11.5	17.4	10.3	13.6	22.7	16.1	19.1
6	7.8	2.2	5.1	17.4	9.6	13.3	20.0	11.2	15.3	23.7	16.9	20.0
7	9.5	4.0	6.5	18.2	10.9	14.4	22.0	14.1	17.8	23.9	17.6	20.6
8	8.5	4.6	6.7	19.7	12.4	15.9	18.2	12.0	15.4	23.4	18.5	21.0
9	10.3	4.6	7.4	19.9	13.7	16.8	17.1	9.9	13.0	24.0	19.0	21.5
10	10.5	4.9	7.8	20.0	14.6	17.4	18.9	10.2	14.3	23.3	19.5	21.4
11	13.6	7.4	10.3	19.3	15.6	17.2	19.7	13.5	16.5	23.0	17.7	20.3
12	11.8	6.7	8.6	17.2	11.8	14.8	19.2	15.6	17.5	25.0	18.6	21.7
13	6.8	6.0	6.5	14.8	8.0	11.3	16.9	10.4	12.3	26.1	20.8	23.1
14	11.1	6.7	8.9	15.7	7.8	11.6	11.6	10.3	10.9	24.5	20.0	21.8
15	12.2	6.9	9.3	17.6	10.1	13.5	13.9	11.5	12.8	22.3	18.0	19.9
16	14.0	7.7	10.5	16.0	12.2	14.1	20.5	13.4	16.3	21.1	16.2	18.7
17	12.8	8.4	10.5	19.9	12.6	16.1	19.7	14.4	16.7	21.5	17.6	19.5
18	9.9	7.4	8.2	15.5	8.7	11.9	17.8	14.7	16.0	24.1	18.9	21.3
19	13.4	8.2	10.3	12.6	9.4	11.2	21.9	13.7	17.2	26.0	20.4	22.9
20	12.3	6.8	9.4	13.5	11.4	12.4	22.5	14.7	18.2	25.5	21.4	23.3
21	11.7	5.7	8.6	16.7	11.6	13.6	21.9	16.3	18.5	23.3	21.6	22.3
22	10.6	5.6	8.3	18.5	10.4	14.0	17.9	13.2	15.4	24.6	20.5	22.2
23	13.3	7.8	10.4	19.0	12.0	14.8	19.2	11.8	15.3	22.5	19.7	21.0
24	14.5	9.0	11.6	19.7	11.2	15.1	17.3	14.1	15.7	24.1	20.0	21.8
25	17.3	10.6	13.8	20.9	12.9	16.5	15.7	12.8	14.1	24.5	21.4	22.7
26	17.1	11.5	14.4	21.2	15.0	17.6	18.2	11.6	14.3	24.6	20.6	22.5
27	16.9	13.6	15.0	16.0	12.9	14.2	19.8	12.4	15.6	24.9	21.3	23.0
28	16.5	11.2	13.6	17.5	11.3	14.1	15.5	13.6	14.3	25.2	22.1	23.3
29	15.4	8.5	11.9	15.4	10.4	13.2	18.6	12.4	15.2	23.3	20.1	21.5
30	---	---	---	17.2	12.4	14.5	21.0	12.5	16.3	23.0	18.1	20.0
31	---	---	---	20.4	13.6	16.5	---	---	---	23.6	17.6	20.1
MONTH	17.3	1.7	8.9	21.2	7.7	14.1	22.5	9.9	15.5	26.1	13.8	20.9

02146428 25 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.0	19.5	22.0	26.9	21.7	23.8	26.0	23.0	24.1	28.0	23.5	25.5
2	27.7	21.6	24.2	28.0	21.8	24.7	26.3	22.9	24.1	26.0	23.5	24.3
3	26.8	22.9	24.6	28.9	22.9	25.6	26.4	23.2	24.1	25.5	23.4	24.1
4	23.9	21.7	22.4	30.2	23.5	26.5	24.6	22.0	23.3	24.2	23.0	23.7
5	21.7	20.6	21.1	28.8	24.7	26.7	26.8	22.6	24.3	23.5	20.2	22.3
6	24.6	20.3	21.7	28.7	25.0	26.6	26.3	23.1	24.4	20.2	18.5	19.1
7	23.5	18.3	20.4	27.2	24.0	25.6	29.3	23.6	26.0	21.3	18.0	19.4
8	24.1	18.4	20.6	28.4	23.7	25.8	30.4	25.1	27.1	21.7	19.2	20.4
9	25.6	19.4	22.0	30.5	23.9	26.9	30.7	25.1	27.4	24.2	19.7	21.5
10	27.0	21.1	23.6	31.1	24.9	27.8	27.9	22.9	25.5	24.8	20.5	22.3
11	27.8	22.1	24.4	29.2	24.6	26.6	28.7	24.5	25.9	25.3	20.9	22.6
12	26.8	22.7	24.6	26.8	24.2	25.3	27.7	23.2	25.0	25.5	21.1	22.9
13	28.2	23.0	25.3	25.2	23.5	24.2	26.7	21.5	23.8	26.3	21.2	23.4
14	28.1	24.1	25.7	27.7	23.0	24.6	27.3	20.9	23.8	27.5	22.3	24.4
15	28.9	23.4	25.6	27.4	23.2	24.8	28.3	21.3	24.3	26.6	22.4	24.2
16	28.1	23.8	25.6	27.8	23.2	25.0	29.1	22.4	25.4	23.6	19.4	21.4
17	28.6	24.1	26.0	29.0	22.7	25.3	29.8	23.3	26.4	21.7	17.2	19.4
18	29.5	24.4	26.4	30.1	23.2	26.1	29.9	24.4	26.0	18.7	17.4	17.9
19	27.3	23.9	25.1	27.9	24.3	26.0	27.9	23.5	25.2	22.3	17.8	19.8
20	26.3	23.9	24.7	29.0	24.1	26.0	25.1	22.9	24.0	24.4	19.7	21.8
21	28.5	23.4	25.6	26.7	24.0	25.0	26.4	22.0	23.5	23.6	21.4	22.3
22	27.6	24.1	25.5	28.2	23.3	25.2	27.6	21.2	23.9	22.1	19.6	20.9
23	27.8	23.1	25.2	25.6	23.5	24.4	27.6	20.4	23.8	21.5	18.8	20.1
24	27.1	23.3	25.1	24.3	22.6	23.1	29.1	22.3	25.1	23.5	20.2	21.9
25	29.6	24.0	26.1	22.6	21.0	21.6	27.2	23.0	24.7	24.8	22.1	23.1
26	29.9	24.2	26.5	22.7	20.7	21.6	28.9	23.0	25.4	22.8	17.8	20.1
27	30.1	24.2	26.7	27.5	21.2	23.8	26.1	23.6	24.6	19.3	15.9	17.4
28	28.1	24.2	25.8	29.0	22.6	25.2	28.2	22.6	25.0	19.9	15.8	17.5
29	24.2	22.4	23.6	29.6	22.4	25.6	26.9	22.5	24.4	18.6	15.9	17.1
30	26.3	21.1	23.3	29.0	23.7	26.2	25.4	22.6	23.9	20.2	16.0	17.7
31	---	---	---	29.5	24.6	26.6	26.5	22.3	24.0	---	---	---
MONTH	30.1	18.3	24.3	31.1	20.7	25.2	30.7	20.4	24.8	28.0	15.8	21.3

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.9	6.1	6.8	8.7	6.1	7.7	10.2	8.7	9.5	11.8	8.4	9.9
2	8.4	5.9	7.0	7.9	5.7	6.6	10.8	8.7	9.7	12.0	8.2	9.9
3	8.4	5.7	7.0	7.4	5.9	6.7	11.0	8.7	9.7	11.9	7.2	9.3
4	6.9	5.4	6.1	8.6	6.8	7.7	10.6	8.2	9.3	9.8	6.8	7.5
5	8.4	5.4	6.6	8.9	7.2	8.0	10.8	7.8	9.2	10.5	7.0	8.7
6	9.2	5.4	7.1	8.4	7.1	7.7	10.7	7.2	8.8	12.0	8.5	10.0
7	9.9	6.3	7.8	8.1	6.5	7.3	11.8	7.5	9.6	11.8	8.1	9.7
8	9.2	7.1	8.0	7.4	6.0	6.8	12.6	8.9	10.8	12.7	8.2	10.1
9	8.7	7.2	7.8	7.6	6.0	6.8	13.1	8.9	11.0	10.0	8.1	8.7
10	8.2	6.4	7.4	7.3	5.8	6.6	12.2	7.0	8.4	8.3	7.6	8.0
11	8.4	6.8	7.6	7.4	5.1	6.2	10.4	7.0	8.6	8.8	7.7	8.3
12	7.6	6.8	7.1	6.7	5.4	5.9	11.4	8.2	9.5	10.1	7.8	8.7
13	8.4	6.8	7.7	6.6	5.2	5.9	9.8	6.6	8.0	10.2	7.9	8.8
14	7.9	6.7	7.3	6.9	5.4	6.1	7.4	6.6	7.1	11.4	8.0	9.6
15	8.3	6.6	7.4	6.7	5.3	6.0	8.9	7.4	8.2	12.2	9.5	10.7
16	8.4	6.7	7.4	7.4	5.9	6.5	9.7	7.7	8.6	11.9	9.2	10.5
17	7.5	6.0	6.6	8.1	6.7	7.2	10.8	8.2	9.4	12.1	8.4	10.1
18	8.2	5.7	6.8	8.5	7.1	7.8	11.3	8.7	9.8	11.1	9.2	10.3
19	7.9	6.0	6.8	8.5	7.5	7.9	10.8	8.5	9.5	12.5	9.5	10.7
20	7.7	6.8	7.3	8.0	6.8	7.3	10.1	8.3	9.1	10.7	9.5	10.0
21	8.0	6.8	7.5	7.3	5.8	6.4	9.9	8.2	8.9	12.6	9.6	11.2
22	8.2	6.6	7.3	6.0	4.5	5.1	9.8	8.6	9.1	13.3	10.9	11.9
23	8.2	6.3	7.2	7.3	3.6	5.1	10.8	8.5	9.3	---	---	---
24	8.6	6.8	7.7	8.5	4.5	6.2	11.3	8.7	9.8	---	---	---
25	9.0	7.3	8.1	8.7	4.8	6.5	11.9	9.2	10.5	---	---	---
26	9.3	7.7	8.5	8.0	5.5	6.7	11.7	10.0	10.8	---	---	---
27	---	---	---	7.8	6.6	7.2	11.2	9.4	10.2	---	---	---
28	---	---	---	8.2	6.9	7.5	10.9	9.1	9.9	13.3	11.1	12.2
29	9.3	7.0	8.2	8.4	6.9	7.6	11.5	8.9	10.1	12.4	10.9	11.4
30	9.7	7.1	8.4	9.6	7.3	8.6	11.9	9.0	10.3	12.1	10.9	11.5
31	9.9	7.0	8.3	---	---	---	11.8	8.7	10.0	11.0	10.1	10.5
MONTH	---	---	---	9.6	3.6	6.9	13.1	6.6	9.4	---	---	---

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.7	9.6	10.2	12.7	7.9	10.0	---	---	---	10.3	5.5	7.8
2	10.6	9.3	10.1	13.9	7.3	10.0	---	---	---	---	---	---
3	10.7	9.2	10.0	14.6	7.7	10.7	---	---	---	---	---	---
4	10.6	9.5	10.0	11.2	7.8	8.8	11.2	5.1	7.3	---	---	---
5	11.4	9.7	10.5	12.8	7.8	9.8	12.8	6.1	8.7	---	---	---
6	11.7	9.9	10.7	14.0	7.4	10.1	12.7	5.3	8.4	---	---	---
7	11.7	9.7	10.6	14.4	6.9	10.2	12.9	4.7	7.8	---	---	---
8	12.0	9.7	10.7	14.9	6.7	10.0	9.3	4.2	6.3	---	---	---
9	11.9	9.2	10.5	14.7	6.3	9.8	8.1	6.6	7.5	10.3	5.0	7.4
10	12.1	9.0	10.4	14.7	6.2	9.6	8.8	6.0	7.4	10.2	4.9	7.3
11	11.9	8.1	9.9	13.6	6.3	8.7	9.6	5.5	7.3	10.1	5.3	7.4
12	10.0	7.7	9.2	12.8	6.1	8.8	9.5	5.2	7.0	10.1	4.8	7.0
13	10.3	9.5	9.9	13.5	7.4	10.0	8.7	5.2	7.2	10.0	4.2	6.6
14	10.0	8.7	9.4	14.4	7.8	10.5	8.1	7.3	7.7	9.2	4.3	6.0
15	10.2	8.9	9.4	15.3	7.3	10.6	7.8	6.7	7.3	10.5	4.3	6.6
16	10.3	8.3	9.5	9.9	6.9	7.9	7.3	5.8	6.7	11.2	4.2	6.9
17	10.8	8.4	9.6	9.1	7.6	8.2	7.7	5.5	6.5	11.4	4.4	7.4
18	10.4	9.1	10.0	11.0	7.9	9.3	8.2	5.8	6.4	11.2	4.3	7.3
19	10.2	8.6	9.5	11.5	8.1	9.4	7.8	5.4	6.5	10.4	3.9	6.5
20	11.6	8.8	10.2	9.7	8.0	8.7	8.6	5.2	6.6	9.1	3.6	6.2
21	12.0	9.3	10.6	9.1	7.4	8.4	8.8	5.1	6.7	8.5	3.5	5.7
22	12.4	9.5	10.9	9.4	6.5	8.2	10.1	5.5	7.5	9.3	4.2	6.5
23	12.3	9.1	10.4	8.8	5.4	7.3	10.9	6.2	8.0	10.1	3.5	6.5
24	12.6	8.7	10.3	8.6	4.6	6.8	10.9	6.0	7.4	8.9	4.1	6.0
25	13.1	8.2	10.2	8.3	3.6	6.1	7.8	6.7	7.3	8.2	3.4	5.4
26	13.7	7.8	10.3	---	---	---	9.4	6.3	7.7	8.5	3.7	5.7
27	13.1	7.3	8.9	---	---	---	9.6	5.7	7.5	8.5	3.6	5.8
28	9.9	7.8	8.6	---	---	---	7.3	5.7	6.6	8.4	3.2	5.3
29	11.7	7.8	9.5	---	---	---	8.3	6.4	7.2	8.4	4.1	5.8
30	---	---	---	10.2	4.6	6.9	9.3	6.2	7.5	9.0	4.3	6.4
31	---	---	---	---	---	---	---	---	---	10.8	4.8	7.1
MONTH	13.7	7.3	10.0	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.2	4.1	6.8	10.9	3.7	6.4	---	---	---	9.2	5.0	6.8
2	10.1	3.7	6.3	11.6	4.3	7.4	---	---	---	---	---	---
3	8.6	3.0	5.5	11.4	4.7	7.6	---	---	---	---	---	---
4	4.9	2.9	4.1	12.8	3.4	7.5	---	---	---	---	---	---
5	5.8	2.5	4.0	10.3	3.1	6.4	---	---	---	---	---	---
6	7.1	3.5	5.1	9.8	2.8	5.8	---	---	---	---	---	---
7	8.1	3.3	5.5	7.5	3.8	5.8	---	---	---	---	---	---
8	8.3	3.5	5.6	10.0	3.3	6.2	6.8	4.1	5.2	---	---	---
9	7.9	3.5	5.4	9.7	3.8	6.6	7.2	4.2	5.4	---	---	---
10	7.4	3.1	5.0	10.2	3.2	6.4	6.4	4.5	5.5	---	---	---
11	6.9	2.9	4.6	9.2	2.6	4.7	6.8	4.2	5.0	---	---	---
12	7.2	2.7	4.7	5.4	3.1	4.5	7.3	4.1	5.4	---	---	---
13	7.1	3.2	4.9	4.9	4.2	4.6	7.5	4.8	5.9	8.8	5.2	6.6
14	6.2	3.0	4.5	5.8	4.1	4.6	7.9	4.9	6.2	9.8	5.5	7.2
15	4.4	2.6	3.5	5.5	3.9	4.7	8.8	5.2	6.5	10.6	5.3	7.3
16	5.1	2.0	3.4	5.1	3.7	4.2	9.3	5.0	6.7	9.8	5.0	7.3
17	5.7	2.4	3.9	6.9	3.7	5.0	10.7	4.7	7.1	11.3	5.8	8.0
18	6.4	3.0	4.4	7.7	4.3	5.7	---	---	---	8.7	6.4	7.5
19	6.3	3.4	4.3	7.6	4.3	5.8	---	---	---	7.9	6.0	7.2
20	6.4	2.5	4.0	6.3	3.5	4.7	---	---	---	7.4	5.7	6.3
21	7.9	3.3	5.1	6.5	3.0	4.4	---	---	---	7.0	4.6	5.5
22	8.3	3.0	5.3	7.7	4.0	5.4	---	---	---	7.5	4.2	5.7
23	8.6	3.6	5.7	6.6	3.9	5.1	7.8	4.5	6.1	8.2	5.9	6.8
24	8.9	3.2	5.8	---	---	---	7.1	4.6	5.7	5.9	4.7	5.4
25	8.9	3.6	5.8	7.1	5.1	5.9	5.9	4.5	5.3	5.4	3.8	4.9
26	8.8	3.5	5.7	7.6	4.6	6.0	6.7	3.7	4.9	5.7	5.0	5.4
27	9.1	3.1	5.9	9.9	4.7	6.4	6.6	3.4	4.8	6.4	5.5	6.0
28	8.6	3.3	5.4	9.1	4.2	6.1	7.5	3.3	5.1	---	---	---
29	6.2	4.3	5.1	9.7	3.8	6.1	8.9	3.3	5.8	7.7	6.1	6.7
30	9.4	4.3	6.2	9.0	3.3	5.8	8.8	3.7	5.9	7.9	6.1	6.9
31	---	---	---	---	---	---	8.5	4.1	6.9	---	---	---
MONTH	10.2	2.0	5.1	---	---	---	---	---	---	---	---	---

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

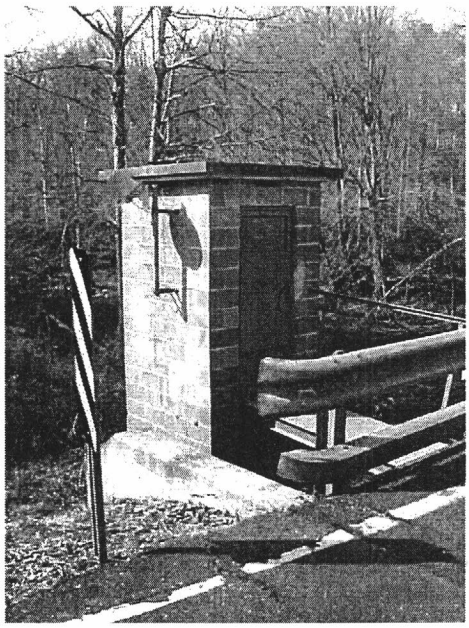
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	90	65	74	95	63	81	88	70	78	105	70	86
2	100	61	76	85	60	71	93	68	80	114	72	91
3	100	61	79	74	58	65	97	70	83	119	68	90
4	77	60	68	83	60	71	100	70	84	96	67	74
5	97	59	74	85	63	74	103	67	85	95	66	78
6	107	56	78	83	63	73	107	69	86	103	69	84
7	114	66	85	82	60	71	106	66	86	109	70	86
8	105	73	87	76	57	68	110	73	93	111	68	86
9	98	77	87	79	58	69	118	73	96	87	69	75
10	94	72	84	76	57	67	111	65	79	77	71	73
11	95	78	86	76	50	62	96	65	78	83	70	75
12	85	75	80	67	54	60	100	68	82	94	69	78
13	91	75	84	68	50	58	90	63	75	99	71	80
14	89	72	80	72	52	61	74	63	70	98	68	81
15	91	69	78	66	51	59	84	69	75	102	75	86
16	94	70	79	68	53	61	89	69	76	107	76	88
17	83	64	72	71	57	64	95	69	80	106	72	87
18	93	61	74	76	59	68	100	71	84	88	74	82
19	82	63	70	80	64	71	98	74	84	105	75	87
20	79	69	74	76	62	70	92	74	82	95	77	85
21	84	68	76	71	55	61	89	72	79	103	76	88
22	85	65	73	59	44	51	92	77	83	99	81	88
23	85	61	71	75	36	52	99	75	83	---	---	---
24	86	63	73	89	46	65	97	73	82	---	---	---
25	89	66	76	91	50	68	96	72	83	---	---	---
26	92	69	80	83	58	71	96	76	84	---	---	---
27	---	---	---	79	67	71	93	72	81	---	---	---
28	---	---	---	82	66	72	91	70	79	105	84	91
29	96	65	80	82	65	72	96	68	81	96	82	87
30	98	67	83	87	65	75	101	70	84	88	83	86
31	108	68	86	---	---	---	104	72	86	85	80	82
MONTH	---	---	---	95	36	67	118	63	82	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	86	77	80	134	75	98	---	---	---	120	59	84
2	88	75	79	147	71	100	---	---	---	---	---	---
3	90	75	80	145	73	101	---	---	---	---	---	---
4	91	77	82	104	72	82	123	55	78	---	---	---
5	97	78	85	133	70	94	138	58	87	---	---	---
6	100	79	87	150	69	100	144	57	88	---	---	---
7	104	81	89	157	67	104	151	48	86	---	---	---
8	105	80	90	168	66	106	100	45	65	---	---	---
9	109	79	90	166	64	105	84	64	73	126	57	86
10	111	76	90	167	63	104	97	62	75	123	57	85
11	118	76	91	152	66	93	109	59	78	122	59	84
12	87	71	81	136	61	89	106	54	76	126	55	82
13	87	80	83	137	66	95	80	54	68	127	49	81
14	87	80	84	149	69	100	76	67	71	113	49	71
15	95	80	85	164	67	107	74	67	71	125	49	74
16	101	79	87	98	66	79	78	62	70	129	45	76
17	105	79	89	102	75	85	84	60	69	132	48	84
18	91	82	87	112	75	89	88	59	67	138	48	86
19	100	80	87	112	75	89	91	58	70	132	45	79
20	110	80	92	92	76	84	102	57	73	114	42	76
21	113	81	94	95	73	83	104	56	74	102	41	68
22	115	81	95	100	65	82	110	56	78	115	48	77
23	121	81	96	96	55	75	121	62	83	120	40	76
24	127	79	98	93	47	70	116	61	77	110	47	71
25	141	77	102	89	38	64	77	69	73	101	40	64
26	146	76	104	---	---	---	102	63	78	106	42	68
27	139	73	91	---	---	---	108	59	78	106	42	70
28	104	75	86	---	---	---	73	58	67	105	38	64
29	120	74	91	---	---	---	91	65	74	101	47	68
30	---	---	---	109	45	70	107	64	79	108	47	73
31	---	---	---	---	---	---	---	---	---	131	51	81
MONTH	146	71	89	---	---	---	---	---	---	---	---	---

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	127	46	81	140	43	79	---	---	---	120	61	86
2	132	43	78	152	51	93	---	---	---	---	---	---
3	111	36	68	152	56	97	---	---	---	---	---	---
4	58	34	49	175	41	98	---	---	---	---	---	---
5	66	29	46	137	38	83	---	---	---	---	---	---
6	87	40	60	130	34	76	---	---	---	---	---	---
7	98	37	63	98	48	73	---	---	---	---	---	---
8	102	39	65	132	40	79	94	52	68	---	---	---
9	99	39	64	133	47	86	99	53	71	---	---	---
10	96	36	62	141	42	86	77	57	70	---	---	---
11	91	34	58	123	32	61	91	52	64	---	---	---
12	93	32	59	69	39	56	96	50	68	---	---	---
13	94	39	62	61	51	57	96	56	72	113	61	81
14	81	37	57	70	49	58	103	57	76	128	66	90
15	58	33	45	67	49	59	115	60	81	136	63	90
16	67	24	43	67	45	53	124	60	85	119	56	85
17	75	30	50	91	44	63	145	58	92	132	63	90
18	86	37	56	103	52	73	---	---	---	95	68	81
19	82	42	55	101	53	74	---	---	---	87	69	81
20	81	31	50	85	43	60	---	---	---	91	64	74
21	104	40	65	84	37	55	---	---	---	84	55	65
22	109	37	67	101	48	68	---	---	---	85	49	66
23	113	44	71	82	47	63	102	52	74	90	67	76
24	115	39	72	---	---	---	95	54	72	68	56	64
25	120	44	74	84	60	69	77	55	65	66	45	59
26	119	43	74	91	53	70	89	44	62	65	59	61
27	125	37	76	129	54	78	84	42	60	72	58	64
28	113	41	68	121	50	77	99	39	65	---	---	---
29	75	52	62	131	45	78	115	39	72	84	64	72
30	120	50	75	120	40	74	110	44	72	89	64	74
31	---	---	---	---	---	---	109	49	84	---	---	---
MONTH	132	24	62	---	---	---	---	---	---	---	---	---



USGS gaging station at Little River near Star.

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC

LOCATION.--Lat 35°10'30", long 80°49'55", Mecklenburg County, Hydrologic Unit 03050103, on right bank on downstream side of second footbridge 700 feet upstream of Colony Road at Charlotte. Located within Myers Park Country Club.

DRAINAGE AREA.--19.0 mi^2.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good 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 period of record also occurred Sept. 15, 1999, Sept. 17, 2000.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	3.2	3.2	4.3	25	7.5	7.1	6.9	4.1	2.7	111	4.7
2	3.9	49	3.7	3.6	19	6.9	15	51	3.9	2.3	122	107
3	3.7	5.4	4.4	3.6	15	6.4	21	88	3.6	2.1	24	34
4	6.6	4.1	4.1	18	15	16	7.2	11	22	2.1	113	64
5	5.7	4.1	4.1	6.1	11	8.1	6.1	9.0	32	2.1	4.7	7.3
6	3.5	4.4	4.5	3.7	8.6	6.4	6.0	8.7	5.9	2.4	3.1	3.0
7	3.3	3.8	3.6	3.7	7.5	6.1	5.8	7.4	3.7	86	2.7	2.5
8	3.2	3.7	3.5	3.6	6.9	6.0	113	6.9	3.5	2.8	2.3	2.2
9	3.1	3.6	3.5	19	6.6	5.9	14	6.6	3.3	2.0	3.1	2.1
10	281	3.8	17	143	6.5	5.8	7.4	28	3.1	1.8	53	2.1
11	418	14	4.2	11	7.8	9.1	6.6	8.4	3.0	40	3.4	1.8
12	10	7.7	2.9	6.6	183	10	5.9	6.2	3.1	242	2.3	1.7
13	e54	3.4	7.6	5.5	20	5.5	160	7.6	2.7	11	1.8	1.6
14	e28	3.1	77	4.5	239	5.5	50	13	15	30	1.8	1.5
15	e9.8	3.0	5.9	4.4	20	5.6	197	5.4	11	47	1.7	1.4
16	4.2	3.1	4.2	4.4	12	68	38	5.2	3.6	3.1	1.6	1.4
17	3.8	3.1	3.8	4.3	10	19	29	5.3	2.7	2.5	1.5	1.3
18	3.5	3.4	3.8	8.9	39	6.9	20	5.4	2.8	2.2	29	50
19	3.4	3.3	4.6	5.1	12	6.2	11	5.1	4.8	5.3	7.5	48
20	54	3.2	8.5	21	9.5	284	9.0	4.8	2.8	16	1.9	2.7
21	17	3.6	33	5.0	8.4	34	8.0	4.8	2.7	2.7	1.6	2.2
22	5.0	4.3	8.6	4.8	7.7	14	7.3	8.5	2.8	2.0	1.5	85
23	4.0	4.3	4.7	66	7.3	10	7.0	4.8	3.4	3.1	1.4	701
24	3.5	4.3	4.1	21	7.5	8.7	24	8.1	2.6	28	13	11
25	3.7	4.2	3.8	71	7.9	8.0	66	5.4	2.4	4.5	13	67
26	3.5	103	3.9	21	6.5	7.4	11	5.8	2.2	2.6	2.0	12
27	3.5	7.9	3.9	12	58	29	8.0	4.6	4.5	2.2	1.5	4.7
28	3.5	4.4	3.9	11	17	15	50	4.4	35	1.8	1.5	3.8
29	3.5	3.8	3.7	13	8.4	8.1	12	5.7	32	1.7	1.4	3.2
30	3.3	3.3	4.3	203	---	7.8	7.9	4.2	4.5	1.6	1.7	3.1
31	3.4	---	5.4	42	---	8.1	---	4.1	---	3.4	13	---
TOTAL	961.5	275.5	253.4	754.1	802.1	645.0	930.3	350.3	228.7	559.0	543.0	1233.3
MEAN	31.0	9.18	8.17	24.3	27.7	20.8	31.0	11.3	7.62	18.0	17.5	41.1
MAX	418	103	77	203	239	284	197	88	35	242	122	701
MIN	3.1	3.0	2.9	3.6	6.5	5.5	5.8	4.1	2.2	1.6	1.4	1.3
CFSM	1.63	.48	.43	1.28	1.46	1.10	1.63	.59	.40	.95	.92	2.16
IN.	1.88	.54	.50	1.48	1.57	1.26	1.82	.69	.45	1.09	1.06	2.41

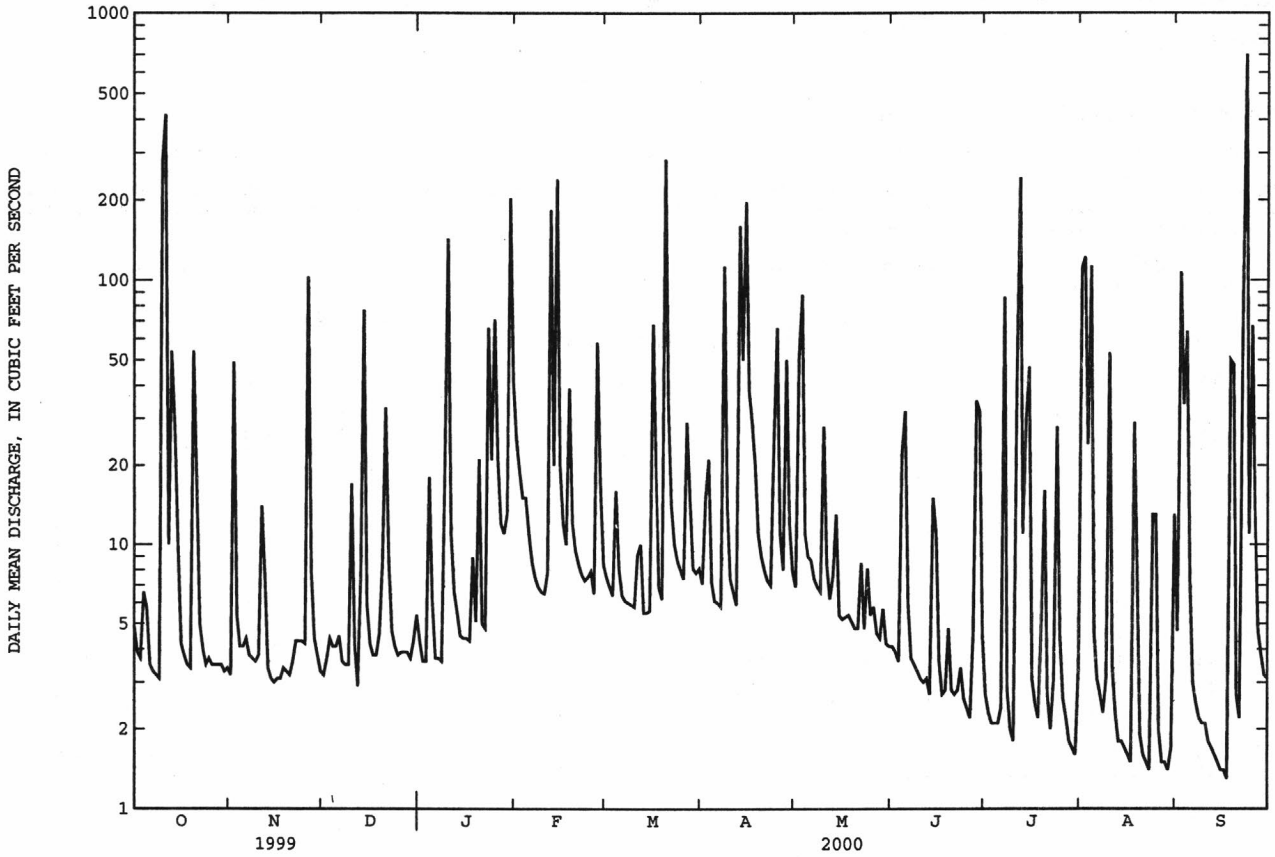
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	19.4	12.9	16.8	37.9	33.1	26.3	38.8	12.9	14.5	34.9	12.5	19.5
MAX	31.0	19.4	31.5	65.2	46.9	36.4	72.2	16.6	19.4	114	19.1	41.1
(WY)	2000	1998	1998	1998	1998	1998	1998	1996	1997	1997	1996	2000
MIN	6.59	8.39	8.17	19.4	19.9	11.5	23.4	8.11	7.62	8.57	5.79	10.4
(WY)	1999	1999	2000	1997	1999	1999	1999	1999	2000	1996	1997	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	6279.9		7536.2			
ANNUAL MEAN	17.2		20.6		23.5	
HIGHEST ANNUAL MEAN					30.8	1998
LOWEST ANNUAL MEAN					15.7	1999
HIGHEST DAILY MEAN	481	Jan 23	701	Sep 23	2610	Jul 23 1997
LOWEST DAILY MEAN	1.4	Sep 2	1.3	Sep 17	1.3	Sep 17 2000
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 29	1.5	Sep 11	1.5	Aug 29 1999
INSTANTANEOUS PEAK FLOW			2220	Sep 23	5680*	Jul 23 1997
INSTANTANEOUS PEAK STAGE			10.52	Sep 23	15.41*	Jul 23 1997
INSTANTANEOUS LOW FLOW			1.2	Sep 17	1.2*	Sep 14 1999
ANNUAL RUNOFF (CFSM)	.91		1.08		1.24	
ANNUAL RUNOFF (INCHES)	12.30		14.76		16.79	
10 PERCENT EXCEEDS	34		48		45	
50 PERCENT EXCEEDS	5.4		5.5		7.9	
90 PERCENT EXCEEDS	2.4		2.2		3.1	

e Estimated.
* See REMARKS.

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC--Continued



0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

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

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection 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	640, January 23, 2000	27, September 23, 2000
pH, standard units	9.6, October 8, 1999	6.0, June 27, 1999
WATER TEMPERATURE, °C	35.0, July 31, 1999	0.7, January 22, 2000
DISSOLVED OXYGEN, mg/L	15.0, November 1, 1999	3.9, August 11-12, 1999, June 14-15, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	184, August 9, 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	640, January 23	27, September 23
pH, standard units	9.6, October 8	6.2, July 14-15
WATER TEMPERATURE, °C	33.0, June 27	0.7, January 22
DISSOLVED OXYGEN, mg/L	15.0, November 1	3.9, June 14-15
DISSOLVED OXYGEN, PERCENT SATURATION,%	184, August 9	47, May 25

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	116	89	103	185	156	174	168	163	166	157	148	153
2	135	116	125	179	70	110	167	165	166	171	156	160
3	152	135	139	117	82	99	174	166	168	174	167	170
4	163	132	145	144	117	132	176	168	169	174	112	156
5	137	128	131	166	143	149	172	168	169	145	120	126
6	149	136	140	176	151	161	173	167	170	149	129	139
7	159	145	151	170	154	161	185	170	174	163	149	156
8	171	150	158	176	162	167	174	170	172	165	161	162
9	177	156	163	179	169	171	178	163	172	167	100	147
10	179	38	112	183	173	175	178	115	151	---	---	---
11	106	43	71	183	138	174	135	124	127	---	---	---
12	132	106	120	138	116	123	150	132	140	144	124	134
13	---	---	---	160	131	144	155	125	146	155	143	149
14	---	---	---	175	158	164	132	62	82	159	155	157
15	---	---	---	180	172	174	120	90	105	161	158	159
16	159	145	151	180	174	175	142	120	131	165	160	163
17	169	155	160	178	176	177	152	142	147	167	163	165
18	168	162	165	185	176	177	161	152	157	225	154	177
19	184	168	180	185	174	176	161	157	160	202	170	195
20	180	70	113	179	172	176	160	141	150	182	130	144
21	105	73	88	177	173	175	151	79	122	152	133	143
22	135	104	121	178	174	177	113	79	95	166	151	158
23	155	135	144	179	174	177	140	113	127	640	150	313
24	158	151	155	188	177	180	153	140	147	371	250	285
25	168	158	160	188	181	184	161	153	157	491	285	387
26	171	157	162	186	58	109	165	152	159	310	223	252
27	178	167	171	117	78	98	168	163	165	227	189	211
28	177	166	171	143	117	131	170	164	167	325	176	193
29	179	166	171	156	143	149	170	165	167	232	177	200
30	176	164	169	163	156	159	168	164	166	385	93	206
31	182	164	171	---	---	---	165	156	160	166	114	143
MONTH	---	---	---	188	58	157	185	62	150	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	189	159	167	178	170	175	194	174	181	183	160	170
2	162	150	155	183	176	178	192	145	175	177	51	168
3	168	158	163	186	178	180	163	120	141	129	51	91
4	168	156	163	184	142	170	171	137	148	160	126	140
5	176	160	167	153	139	142	189	161	169	173	155	162
6	236	168	188	180	153	161	182	176	178	179	168	170
7	235	180	185	---	---	---	190	177	182	178	165	172
8	199	174	183	---	---	---	186	61	136	187	178	182
9	213	181	185	---	---	---	142	79	110	189	181	185
10	184	180	181	---	---	---	165	137	150	---	---	---
11	208	179	184	---	---	---	174	161	166	---	---	---
12	395	67	138	---	---	---	182	173	175	---	---	---
13	148	101	129	---	---	---	179	55	106	187	168	181
14	138	49	91	192	174	176	132	82	112	173	148	158
15	155	121	141	195	174	182	96	66	80	172	154	161
16	171	155	163	192	60	133	147	85	120	184	162	171
17	177	164	172	141	60	101	164	116	150	191	168	178
18	164	115	125	169	139	155	155	117	134	193	166	178
19	160	131	148	179	169	174	178	155	166	190	163	176
20	170	160	167	179	41	95	189	172	177	196	171	182
21	178	168	173	146	84	120	198	182	184	197	174	184
22	179	173	176	186	146	162	196	187	189	189	146	163
23	196	175	179	178	166	172	194	184	187	180	160	170
24	184	179	182	195	174	179	188	117	174	191	164	175
25	187	162	172	193	182	184	117	60	93	197	167	175
26	187	178	181	194	182	185	151	100	128	189	165	176
27	184	84	155	192	115	174	175	151	161	204	173	182
28	159	93	121	151	105	122	175	72	124	201	176	185
29	170	159	166	177	145	162	147	94	121	190	176	183
30	---	---	---	193	177	181	175	147	158	193	176	184
31	---	---	---	193	179	183	---	---	---	206	178	184
MONTH	395	49	162	---	---	---	198	55	149	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	207	177	186	161	126	133	146	48	69	148	103	138
2	240	182	189	181	142	147	91	37	68	122	33	81
3	210	185	191	195	144	156	108	38	84	90	58	71
4	190	99	139	184	132	159	92	37	65	104	35	79
5	169	82	135	177	159	164	140	91	111	110	75	91
6	138	122	131	180	163	169	161	129	139	139	109	122
7	160	138	147	174	46	105	184	151	155	165	136	145
8	170	155	160	151	119	130	180	156	163	170	151	154
9	183	162	169	168	138	145	179	136	159	182	160	163
10	202	168	178	174	152	156	---	---	---	185	162	166
11	200	167	178	---	---	---	---	---	---	191	162	168
12	252	154	175	---	---	---	---	---	---	233	172	179
13	187	169	177	---	---	---	---	---	---	---	---	---
14	194	99	165	---	---	---	---	---	---	---	---	---
15	---	---	---	112	53	82	---	---	---	217	184	188
16	---	---	---	152	105	121	193	171	178	229	182	187
17	---	---	---	304	137	183	196	173	181	187	184	185
18	---	---	---	160	151	154	198	89	170	188	58	168
19	---	---	---	---	---	---	126	90	108	92	51	68
20	182	161	170	---	---	---	144	126	130	159	92	104
21	201	172	187	---	---	---	160	139	143	159	121	129
22	196	166	177	157	133	138	175	150	155	149	50	111
23	186	168	176	156	95	149	211	166	185	95	27	59
24	187	164	173	102	73	93	---	---	---	137	94	111
25	189	166	174	116	101	108	---	---	---	---	---	---
26	195	161	173	134	115	122	270	120	136	---	---	---
27	178	148	160	153	132	139	154	142	148	---	---	---
28	170	72	144	196	145	154	175	150	156	---	---	---
29	101	64	87	183	149	160	194	165	171	---	---	---
30	156	97	112	183	159	165	174	163	171	---	---	---
31	---	---	---	172	135	154	166	73	140	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	7.2	7.3	9.4	7.4	8.3	7.6	7.3	7.5	7.3	7.1	7.2
2	7.7	7.3	7.4	7.7	6.9	7.2	7.6	7.4	7.5	7.6	7.1	7.3
3	8.4	7.3	7.6	7.3	7.0	7.2	7.5	7.3	7.4	7.9	7.2	7.4
4	7.7	7.2	7.4	7.4	7.2	7.3	7.5	7.3	7.4	7.4	6.8	7.1
5	8.5	7.2	7.5	7.5	7.3	7.3	7.5	7.2	7.4	7.2	6.9	7.0
6	9.0	7.3	7.8	7.5	7.3	7.4	7.7	7.2	7.4	7.3	7.0	7.1
7	9.3	7.4	8.1	7.8	7.3	7.4	7.6	7.2	7.3	7.5	7.1	7.2
8	9.6	7.5	8.3	8.0	7.3	7.5	7.8	7.1	7.4	7.7	7.1	7.3
9	9.5	7.6	8.3	8.3	7.3	7.6	8.0	7.3	7.5	7.5	6.9	7.2
10	8.1	7.0	7.6	8.4	7.3	7.6	7.5	7.2	7.3	---	---	---
11	7.3	7.1	7.2	8.3	6.9	7.5	7.4	7.2	7.3	---	---	---
12	7.2	7.0	7.1	6.9	6.7	6.8	7.6	7.2	7.4	7.5	7.3	7.4
13	---	---	---	7.3	6.9	7.1	7.5	7.2	7.4	7.6	7.4	7.5
14	---	---	---	7.5	7.1	7.3	7.2	6.8	6.9	7.7	7.5	7.6
15	---	---	---	7.6	7.2	7.4	7.2	7.0	7.2	7.6	7.5	7.5
16	7.4	7.3	7.3	7.7	7.3	7.5	7.6	7.2	7.4	7.6	7.4	7.5
17	7.4	7.3	7.3	7.6	7.3	7.4	7.6	7.4	7.5	7.6	7.4	7.5
18	7.6	7.3	7.4	7.6	7.3	7.4	7.5	7.4	7.4	7.5	7.4	7.4
19	7.6	7.3	7.4	7.7	7.2	7.4	7.4	7.2	7.3	7.5	7.3	7.4
20	7.3	6.7	7.0	8.1	7.2	7.4	7.2	7.1	7.1	7.3	7.1	7.2
21	7.1	6.7	6.9	7.8	7.2	7.3	7.1	6.7	6.9	7.2	7.1	7.1
22	7.3	6.8	7.0	7.8	7.2	7.3	6.9	6.6	6.8	7.2	7.2	7.2
23	7.4	7.0	7.2	8.4	7.2	7.6	7.1	6.9	7.0	7.2	6.9	7.1
24	7.4	6.8	7.1	8.5	7.4	7.8	7.2	7.0	7.1	7.1	6.9	7.0
25	7.4	6.8	7.1	8.3	7.4	7.7	7.2	7.1	7.2	7.1	6.9	7.0
26	7.6	6.8	7.2	7.5	6.9	7.2	7.2	7.1	7.2	7.1	6.9	7.0
27	8.0	6.9	7.3	7.2	7.0	7.1	7.2	7.1	7.2	7.1	7.0	7.1
28	8.6	6.8	7.6	7.4	7.2	7.3	7.2	7.1	7.2	7.2	7.0	7.1
29	8.9	7.6	8.1	7.6	7.3	7.4	7.4	7.1	7.2	7.4	7.1	7.2
30	9.2	7.5	8.2	7.6	7.4	7.5	7.4	7.2	7.3	7.2	6.8	7.0
31	9.2	7.5	8.3	---	---	---	7.4	7.2	7.3	7.1	6.9	7.0
MONTH	---	---	---	9.4	6.7	7.4	8.0	6.6	7.3	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	7.1	7.1	7.9	7.3	7.5	8.2	7.3	7.6	7.9	7.3	7.5
2	7.2	6.9	7.1	8.4	7.3	7.7	7.6	7.2	7.4	8.1	6.6	7.6
3	7.2	7.1	7.1	8.7	7.4	7.9	7.3	7.0	7.2	7.1	6.6	7.0
4	7.2	7.1	7.2	7.9	7.3	7.5	7.3	7.0	7.1	7.4	7.1	7.2
5	7.2	7.2	7.2	8.2	7.2	7.5	7.5	7.2	7.3	7.6	7.2	7.3
6	7.2	7.2	7.2	9.0	7.3	7.9	7.5	7.1	7.3	7.8	7.3	7.5
7	7.3	7.2	7.2	9.1	7.5	8.1	7.7	7.2	7.4	8.1	7.3	7.6
8	7.4	7.2	7.3	9.2	7.4	8.1	7.5	6.7	7.1	8.4	7.3	7.7
9	7.5	7.3	7.4	9.2	7.3	8.1	7.1	6.8	7.0	8.5	7.3	7.7
10	7.6	7.4	7.5	8.9	7.2	7.9	7.4	7.1	7.3	---	---	---
11	7.7	7.3	7.5	8.7	7.1	7.6	7.7	7.3	7.4	---	---	---
12	7.3	6.8	7.0	7.7	6.9	7.1	7.8	7.3	7.5	---	---	---
13	7.0	6.9	7.0	8.0	6.9	7.3	7.4	6.9	7.2	8.0	7.3	7.5
14	7.0	6.5	6.8	8.3	7.1	7.5	7.3	7.1	7.2	7.6	7.1	7.3
15	7.1	6.8	7.0	8.5	7.2	7.7	7.2	7.0	7.1	8.0	7.2	7.5
16	7.1	7.1	7.1	7.4	6.8	7.1	7.3	7.1	7.2	8.6	7.2	7.7
17	7.2	7.1	7.2	7.3	6.8	7.1	7.5	7.2	7.3	8.9	7.3	8.0
18	7.2	7.0	7.0	7.4	7.2	7.2	7.2	7.0	7.1	9.1	7.3	8.1
19	7.1	7.0	7.1	7.4	7.2	7.3	7.2	7.0	7.1	9.1	7.3	8.1
20	7.2	7.1	7.1	7.3	6.5	6.9	7.8	7.1	7.2	8.9	7.2	8.0
21	7.2	7.1	7.1	7.0	6.7	6.9	7.5	7.1	7.3	8.8	7.2	7.9
22	7.4	7.1	7.3	7.2	6.8	7.1	7.8	7.2	7.4	8.6	7.1	7.7
23	7.5	7.3	7.4	7.3	7.1	7.2	8.3	7.3	7.6	9.0	7.1	7.9
24	7.6	7.3	7.4	7.4	7.1	7.2	8.2	7.1	7.5	8.7	7.2	7.7
25	7.7	7.3	7.4	7.8	7.0	7.3	7.1	6.9	7.1	8.6	7.1	7.6
26	8.2	7.3	7.6	---	---	---	7.4	7.1	7.3	8.7	7.2	7.8
27	8.5	7.0	7.5	---	---	---	7.7	7.2	7.4	8.5	7.2	7.8
28	7.5	7.0	7.2	---	---	---	7.3	7.1	7.2	8.1	7.2	7.5
29	7.6	7.2	7.3	7.5	7.2	7.3	7.4	7.1	7.3	8.5	7.2	7.8
30	---	---	---	7.7	7.2	7.4	7.7	7.3	7.5	8.2	7.3	7.8
31	---	---	---	7.9	7.3	7.5	---	---	---	8.4	7.4	7.8
MONTH	8.5	6.5	7.2	---	---	---	8.3	6.7	7.3	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	7.3	7.8	7.3	6.7	6.9	7.3	6.4	6.6	7.3	6.9	7.1
2	8.5	7.4	7.8	8.4	6.8	7.4	7.3	6.5	6.9	6.9	6.3	6.7
3	8.4	7.5	7.8	8.8	6.9	7.7	7.0	6.4	6.9	6.8	6.5	6.6
4	7.7	7.2	7.3	9.0	7.1	7.9	6.8	6.3	6.6	6.8	6.3	6.5
5	7.5	7.2	7.4	8.7	7.2	7.7	7.1	6.7	6.9	6.8	6.5	6.7
6	7.6	7.3	7.5	8.5	7.1	7.7	7.4	6.9	7.1	7.1	6.8	6.9
7	7.7	7.3	7.5	7.3	6.6	6.9	8.6	7.0	7.7	7.2	6.9	7.0
8	8.1	7.3	7.6	7.2	6.8	7.0	9.2	7.4	8.2	7.3	7.0	7.1
9	8.6	7.3	7.8	7.9	7.1	7.4	9.3	7.2	8.2	7.5	6.9	7.1
10	8.7	7.2	7.8	8.6	7.3	7.8	---	---	---	7.9	6.8	7.1
11	8.7	7.1	7.7	---	---	---	---	---	---	8.2	6.8	7.3
12	8.6	7.1	7.7	---	---	---	---	---	---	8.2	6.8	7.3
13	8.7	7.1	7.7	---	---	---	---	---	---	8.4	7.0	7.5
14	8.5	6.6	7.4	---	---	---	---	---	---	8.5	6.9	7.6
15	---	---	---	6.8	6.2	6.6	---	---	---	8.4	7.0	7.6
16	---	---	---	7.1	6.8	6.9	8.8	7.2	7.9	8.4	7.1	7.6
17	---	---	---	7.5	6.9	7.2	8.7	7.2	7.9	8.6	7.1	7.7
18	---	---	---	8.3	7.2	7.6	8.7	6.6	7.7	7.9	6.8	7.4
19	---	---	---	---	---	---	7.2	6.5	6.9	6.9	6.6	6.8
20	8.5	7.2	7.6	---	---	---	7.6	6.9	7.2	7.2	6.9	7.0
21	8.4	7.2	7.7	---	---	---	8.5	7.0	7.6	7.7	7.0	7.3
22	8.5	7.2	7.7	8.8	7.2	7.8	8.7	7.1	7.9	7.7	6.7	7.1
23	8.5	7.3	7.7	8.7	7.2	7.7	8.5	7.2	7.7	7.0	6.5	6.7
24	8.3	7.3	7.7	7.4	7.1	7.2	---	---	---	7.0	6.7	6.9
25	8.5	7.3	7.7	7.5	7.1	7.2	---	---	---	---	---	---
26	8.4	7.3	7.7	8.3	7.1	7.5	7.9	7.1	7.4	---	---	---
27	8.1	7.0	7.4	8.9	7.2	7.9	8.0	7.2	7.4	---	---	---
28	7.9	6.6	7.1	8.9	7.2	8.0	8.4	7.2	7.6	---	---	---
29	6.7	6.5	6.6	8.8	7.3	7.9	8.4	7.2	7.6	---	---	---
30	6.9	6.6	6.7	8.8	7.3	7.9	8.4	7.2	7.5	---	---	---
31	---	---	---	8.6	7.2	7.7	7.6	6.9	7.1	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.3	15.8	18.8	19.7	16.0	17.8	6.9	4.2	5.7	10.0	6.3	8.0
2	22.6	15.3	18.9	18.8	14.7	17.6	7.5	3.5	5.6	12.7	8.3	10.3
3	24.3	17.7	20.9	14.7	10.4	12.6	9.1	4.6	6.9	14.7	10.8	12.6
4	21.1	19.0	20.1	12.7	8.3	10.5	11.1	6.7	8.9	15.1	12.4	13.7
5	22.4	18.4	20.0	13.1	8.2	10.7	12.6	7.3	10.0	12.4	6.8	9.4
6	21.3	15.8	18.5	14.2	8.9	11.6	14.6	10.7	12.9	8.2	4.5	6.6
7	20.8	15.7	18.3	15.4	10.6	13.1	10.7	7.2	8.9	10.1	7.6	8.6
8	21.1	15.6	18.5	15.9	12.6	14.2	8.9	5.2	7.4	8.8	5.3	7.2
9	22.3	17.8	20.1	16.5	11.9	14.4	10.8	5.7	8.4	9.1	7.5	8.3
10	21.2	20.0	20.5	16.9	12.7	15.0	13.5	10.2	11.5	---	---	---
11	21.5	19.9	20.6	16.1	13.0	14.6	10.9	8.3	9.6	---	---	---
12	21.0	19.1	20.1	16.7	13.5	14.9	9.8	6.7	8.4	11.4	7.3	9.2
13	---	---	---	15.9	11.5	13.8	12.8	9.8	11.1	12.8	8.1	10.1
14	---	---	---	16.2	11.7	14.2	14.6	11.5	13.5	8.1	4.8	6.6
15	---	---	---	14.8	11.3	12.8	11.9	8.7	10.5	6.7	2.8	4.8
16	20.6	15.5	18.0	11.9	8.8	10.4	10.0	7.4	8.8	9.7	4.2	6.7
17	20.2	18.3	19.0	10.5	6.7	8.9	8.7	5.2	7.1	8.3	6.2	7.5
18	20.0	16.8	18.4	10.4	6.1	8.5	9.1	5.1	7.3	7.0	4.7	5.2
19	17.3	15.9	16.3	12.1	6.6	9.5	10.0	8.0	8.9	7.5	4.4	5.7
20	16.0	15.3	15.7	14.8	10.5	12.4	10.4	9.1	9.7	8.6	4.9	6.8
21	17.8	13.5	15.2	14.4	11.0	12.8	10.1	8.4	9.3	5.4	2.5	4.0
22	17.2	11.8	14.5	16.1	13.2	14.4	11.3	8.9	10.2	3.3	.7	2.1
23	15.1	12.2	13.7	17.1	13.0	15.1	10.7	7.5	9.1	3.3	1.2	2.5
24	14.1	9.8	12.0	18.4	15.1	16.5	8.1	5.2	6.7	3.4	2.0	2.9
25	14.0	8.9	11.5	17.6	15.4	16.4	5.4	2.6	3.9	4.9	2.0	3.4
26	14.6	9.2	11.9	18.2	16.0	16.9	5.7	1.7	3.8	5.8	2.3	3.6
27	15.6	10.1	12.8	16.0	12.3	14.1	5.9	2.5	4.3	5.3	.8	2.7
28	15.6	10.9	13.3	14.2	10.3	12.3	6.1	3.0	4.6	5.4	1.8	3.2
29	16.0	10.9	13.5	13.1	9.9	11.8	6.4	2.6	4.7	4.2	3.0	3.5
30	16.4	11.5	14.2	9.9	6.4	8.0	7.8	3.0	5.4	3.2	1.7	2.5
31	18.0	13.7	16.1	---	---	---	9.1	5.3	7.1	6.1	2.9	4.0
MONTH	---	---	---	19.7	6.1	13.2	14.6	1.7	8.1	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	2.3	4.3	17.5	9.6	13.1	22.1	13.2	17.0	24.6	14.7	18.8
2	7.3	2.4	4.4	18.0	11.5	14.1	16.8	15.0	16.0	23.2	16.6	19.7
3	8.1	2.7	5.0	15.3	9.9	12.3	20.3	15.9	17.8	21.9	17.5	19.3
4	7.8	4.0	5.6	12.2	10.3	11.4	19.3	13.3	17.2	24.3	17.3	20.3
5	8.4	3.2	5.3	16.9	8.2	11.9	19.8	10.7	14.5	26.8	17.1	21.1
6	8.4	3.1	5.3	18.7	9.9	13.6	22.3	11.6	16.1	27.9	18.0	22.1
7	9.9	4.1	6.5	19.6	11.1	14.8	24.5	14.2	18.5	28.4	18.6	22.8
8	9.3	5.0	7.0	21.0	12.6	16.2	18.2	12.9	16.0	27.7	19.3	23.0
9	11.1	4.9	7.5	21.1	13.9	17.1	18.7	10.3	13.7	28.0	19.7	23.2
10	11.3	5.2	7.9	20.8	14.7	17.5	21.0	10.9	15.2	26.9	20.0	23.7
11	13.9	7.3	10.2	20.6	15.9	17.7	21.8	13.9	17.3	---	---	---
12	11.3	7.2	8.9	18.4	11.4	15.2	20.6	16.2	18.2	---	---	---
13	7.2	6.4	6.8	16.8	8.6	12.1	17.0	10.6	12.4	30.9	21.3	25.3
14	10.9	6.7	8.9	17.6	8.3	12.3	11.6	10.2	10.9	28.7	21.2	24.1
15	12.6	7.6	9.7	19.3	10.5	14.2	14.0	11.6	12.7	26.5	18.2	21.7
16	14.6	8.1	10.7	15.9	12.7	14.3	21.4	13.6	16.8	26.2	16.6	20.9
17	13.6	9.2	11.0	20.0	12.5	16.3	20.9	15.3	17.8	24.9	18.1	21.3
18	10.3	8.3	8.8	17.0	9.5	12.7	19.4	15.6	17.1	28.0	19.5	23.2
19	14.2	8.4	10.5	13.9	10.2	11.9	23.8	14.5	18.3	29.8	20.4	24.6
20	13.2	7.6	9.9	14.8	11.8	12.8	24.5	15.9	19.6	28.7	21.2	24.8
21	12.8	6.7	9.1	17.4	12.2	14.1	24.1	16.9	19.8	26.1	22.1	23.9
22	11.1	6.4	8.6	19.0	11.3	14.5	20.0	14.1	16.7	28.9	21.4	24.5
23	13.9	7.8	10.4	20.1	12.8	15.4	21.8	12.6	16.6	26.3	19.9	22.9
24	15.4	9.4	12.0	21.1	12.4	15.9	19.3	15.3	16.9	27.6	21.0	23.5
25	17.3	10.7	13.6	22.1	13.7	17.2	16.5	13.3	14.6	27.9	21.6	24.2
26	18.0	11.7	14.7	22.7	15.7	18.3	20.1	12.2	15.1	29.2	20.7	24.6
27	18.0	13.9	15.5	16.3	14.1	15.1	22.7	12.9	16.9	28.7	21.7	25.1
28	17.0	12.1	14.0	17.9	11.9	14.5	16.2	14.1	15.0	27.5	22.6	24.5
29	16.7	9.5	12.5	16.5	10.9	13.6	21.1	12.7	16.0	27.4	20.3	23.4
30	---	---	---	18.9	12.9	15.0	23.7	13.4	17.7	27.3	17.7	22.0
31	---	---	---	22.2	14.0	17.1	---	---	---	28.7	17.3	22.7
MONTH	18.0	2.3	9.1	22.7	8.2	14.6	24.5	10.2	16.3	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.8	19.7	25.0	29.9	21.7	25.5	27.5	23.9	25.3	28.4	23.7	25.9
2	32.4	21.9	26.8	31.0	22.0	26.4	28.5	23.8	25.2	26.5	24.3	25.1
3	31.6	23.2	27.1	30.9	23.4	27.0	28.0	23.8	25.3	26.4	24.1	24.9
4	25.8	22.6	23.7	32.5	23.7	27.8	26.5	22.8	24.4	25.0	23.4	23.9
5	22.6	21.3	21.9	30.8	25.2	28.0	29.6	23.2	26.1	23.7	20.1	22.4
6	27.4	20.2	23.1	32.1	25.6	28.6	28.4	23.8	26.1	20.1	18.5	19.1
7	28.0	17.8	22.4	29.4	23.8	26.6	31.5	24.5	27.8	23.6	18.0	20.6
8	28.6	18.1	23.0	30.0	23.2	26.4	32.4	25.7	28.9	24.2	19.5	21.8
9	30.5	19.4	24.6	31.9	24.1	27.9	32.8	25.3	29.1	27.2	20.0	23.3
10	31.2	21.0	25.9	32.5	24.9	28.8	---	---	---	27.0	20.8	23.9
11	32.0	21.9	26.7	32.0	25.7	28.8	---	---	---	27.9	21.4	24.6
12	31.5	22.6	26.9	---	---	---	---	---	---	27.2	21.5	24.3
13	32.0	23.3	27.6	---	---	---	---	---	---	28.0	21.7	24.9
14	30.6	24.7	27.2	---	---	---	---	---	---	28.1	23.1	25.6
15	---	---	---	29.9	23.5	26.2	---	---	---	26.6	21.7	24.3
16	---	---	---	30.7	23.1	26.7	30.7	23.0	26.9	22.8	18.3	20.7
17	---	---	---	31.5	23.0	27.2	31.0	24.3	27.6	21.8	16.3	19.2
18	---	---	---	31.9	24.0	27.9	30.6	24.6	27.1	19.1	17.9	18.4
19	---	---	---	29.3	25.0	27.3	29.4	23.9	26.3	24.7	18.1	20.6
20	28.6	24.2	26.1	---	---	---	26.0	23.2	24.6	25.7	19.2	22.4
21	31.4	23.7	27.5	---	---	---	26.8	22.0	24.1	25.3	21.8	23.4
22	30.5	24.6	27.4	29.9	23.6	26.2	27.8	21.1	24.4	23.1	20.1	21.3
23	32.2	23.1	27.4	27.0	24.0	25.4	27.9	20.8	24.6	21.8	19.1	20.3
24	30.4	23.7	26.9	25.5	22.8	24.0	29.3	23.1	26.0	26.6	20.6	23.1
25	32.5	24.1	27.8	22.8	21.2	21.8	---	---	---	---	---	---
26	32.8	24.4	27.9	24.5	20.8	22.5	29.5	23.1	26.1	---	---	---
27	33.0	24.5	27.8	29.6	21.3	25.3	26.6	24.1	25.3	---	---	---
28	29.9	24.5	26.6	30.5	23.1	26.7	28.6	22.5	25.3	---	---	---
29	25.1	23.0	24.3	31.5	22.9	27.0	27.2	22.7	24.7	---	---	---
30	29.8	21.3	25.1	31.4	24.6	27.8	26.5	22.8	24.4	---	---	---
31	---	---	---	30.5	25.4	27.6	28.6	23.0	25.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.4	6.8	7.5	15.0	6.5	9.7	---	---	---	11.4	9.2	10.1
2	9.4	6.9	7.9	7.0	6.1	6.5	---	---	---	11.6	8.4	9.8
3	10.8	6.5	8.2	8.7	6.7	7.8	---	---	---	11.9	7.8	9.4
4	9.2	6.3	7.6	10.0	8.2	9.1	---	---	---	9.6	6.8	7.8
5	11.2	6.2	8.0	10.7	8.9	9.6	---	---	---	10.3	7.1	8.8
6	12.7	6.5	8.7	10.8	8.8	9.5	---	---	---	11.6	9.1	10.2
7	13.5	6.5	9.0	11.5	8.7	9.7	---	---	---	11.3	8.9	9.8
8	14.2	6.6	9.2	11.9	8.7	9.8	---	---	---	12.3	9.2	10.4
9	13.2	6.4	8.7	12.6	8.7	10.1	13.0	8.8	10.6	10.8	8.4	9.3
10	8.6	6.3	7.2	12.7	7.8	9.9	10.1	7.7	8.5	---	---	---
11	7.9	6.9	7.3	12.6	7.1	9.0	9.9	8.0	8.8	---	---	---
12	7.7	6.9	7.3	7.3	6.4	6.9	10.8	8.6	9.5	10.2	9.2	9.6
13	---	---	---	8.8	6.8	7.6	9.9	7.2	8.6	10.1	9.2	9.5
14	---	---	---	9.5	7.1	8.1	7.7	7.0	7.2	11.5	9.7	10.6
15	---	---	---	10.3	7.2	8.7	8.8	7.5	8.2	12.3	11.0	11.5
16	8.9	7.6	8.1	11.1	8.3	9.7	9.6	8.2	8.9	12.0	10.2	11.2
17	8.6	7.5	7.8	12.0	9.1	10.3	10.3	9.0	9.6	11.8	10.2	10.9
18	9.5	7.6	8.4	12.1	9.2	10.4	10.6	9.2	9.8	11.3	10.6	11.0
19	10.6	7.9	8.8	12.4	8.6	10.4	10.4	8.9	9.5	12.0	10.6	11.1
20	8.2	7.7	8.0	12.6	8.1	9.8	9.3	8.6	8.9	10.9	10.1	10.5
21	8.9	8.2	8.5	11.8	7.7	9.1	9.2	8.4	8.8	12.2	10.6	11.4
22	9.4	8.1	8.7	11.1	7.2	8.5	9.2	8.7	8.9	12.6	11.6	12.2
23	9.9	8.2	9.0	11.5	6.9	8.6	10.0	9.0	9.4	12.6	11.9	12.2
24	10.5	8.9	9.6	11.6	6.4	8.3	10.8	9.4	10.1	12.3	11.8	12.0
25	11.1	9.1	9.9	10.8	6.4	7.8	11.8	10.3	11.1	12.4	11.6	12.0
26	11.5	9.1	10.0	6.8	5.8	6.3	11.9	10.5	11.3	12.5	11.7	12.1
27	12.1	8.9	10.2	7.3	6.0	6.7	11.8	10.4	11.1	13.0	11.8	12.4
28	13.0	8.4	10.3	8.1	6.9	7.4	11.7	10.2	10.9	12.8	12.0	12.4
29	13.8	8.2	10.2	8.3	7.2	7.6	11.9	10.2	11.0	12.5	11.6	12.1
30	14.9	8.0	10.4	9.3	7.6	8.6	11.8	10.0	10.8	13.1	11.7	12.4
31	14.9	7.2	10.2	---	---	---	11.4	10.0	10.5	12.1	10.9	11.5
MONTH	---	---	---	15.0	5.8	8.7	---	---	---	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.0	10.7	11.4	12.1	8.8	10.2	10.4	6.8	8.3	9.9	6.8	8.1
2	11.9	10.8	11.2	12.7	8.6	10.2	9.3	6.9	7.8	---	---	---
3	11.7	10.8	11.2	13.8	8.9	10.8	8.3	6.4	7.2	---	---	---
4	11.6	10.8	11.2	11.6	8.6	9.7	8.7	6.2	7.4	---	---	---
5	12.3	11.2	11.6	12.8	8.6	10.2	10.0	7.7	8.7	---	---	---
6	12.4	11.4	11.9	13.7	8.4	10.4	9.9	7.0	8.4	---	---	---
7	12.5	11.4	11.9	14.1	8.1	10.4	9.7	6.5	7.8	---	---	---
8	12.8	11.2	11.8	14.5	7.6	10.2	8.9	6.4	7.4	---	---	---
9	12.4	10.7	11.5	14.4	7.3	9.9	8.7	7.6	8.1	10.6	5.7	7.7
10	12.0	10.4	11.2	13.8	7.0	9.4	9.0	7.4	8.2	---	---	---
11	11.6	9.0	10.5	12.7	6.3	8.6	9.2	7.0	8.1	---	---	---
12	10.9	8.4	10.0	11.1	6.2	8.2	9.4	6.9	7.9	---	---	---
13	10.8	10.2	10.5	12.4	7.8	9.7	9.4	6.9	8.3	9.3	5.2	6.9
14	11.3	9.2	10.3	12.7	8.4	10.1	9.2	8.6	8.9	8.4	4.8	6.3
15	10.2	9.3	9.7	12.5	7.7	9.6	9.2	8.1	8.7	9.8	5.1	7.2
16	9.9	8.8	9.4	9.3	7.0	7.7	8.3	6.9	7.8	11.4	6.2	8.3
17	9.9	8.8	9.3	7.9	6.9	7.4	8.1	6.2	7.3	12.8	6.4	9.1
18	9.7	9.1	9.4	9.5	7.5	8.5	7.7	6.5	7.1	13.4	6.4	9.2
19	9.3	8.6	9.0	9.6	7.8	8.5	8.1	6.6	7.3	13.0	6.1	8.9
20	9.8	8.6	9.1	8.9	7.6	8.2	8.4	6.2	7.3	12.8	6.1	8.9
21	10.0	9.0	9.4	8.2	7.5	7.8	8.7	6.2	7.3	12.2	6.3	8.8
22	---	---	---	8.2	7.3	7.7	9.7	6.7	8.1	10.7	4.4	7.4
23	---	---	---	8.3	7.1	7.6	10.8	6.9	8.6	11.2	4.4	7.1
24	---	---	---	8.5	6.8	7.6	10.9	6.5	8.0	10.0	4.3	6.3
25	---	---	---	8.7	6.4	7.5	8.0	6.6	7.3	10.3	4.0	6.6
26	---	---	---	9.2	6.2	7.4	8.9	7.3	8.1	9.9	4.8	6.7
27	---	---	---	9.0	6.4	7.4	9.2	7.0	8.0	9.7	4.7	6.6
28	---	---	---	8.2	6.7	7.4	8.0	6.9	7.5	8.8	4.8	6.3
29	---	---	---	9.4	7.1	8.1	8.6	7.4	7.9	8.9	5.0	6.5
30	---	---	---	10.0	7.1	8.2	9.1	7.0	7.9	10.1	5.6	7.3
31	---	---	---	10.3	6.9	8.1	---	---	---	10.6	5.5	7.5
MONTH	---	---	---	14.5	6.2	8.8	10.9	6.2	7.9	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.2	5.1	7.1	8.1	5.5	6.6	7.4	5.1	6.0	6.4	4.6	5.4
2	9.5	4.6	6.5	10.2	5.4	7.4	7.2	5.9	6.4	6.2	4.9	5.5
3	9.0	4.6	6.2	12.1	4.7	7.8	6.8	5.9	6.2	6.3	5.6	5.8
4	7.3	4.6	5.4	12.2	4.4	7.5	7.1	6.2	6.7	6.8	5.6	6.1
5	7.0	5.0	5.7	11.0	4.4	6.9	7.1	6.0	6.5	7.0	6.1	6.6
6	7.3	5.9	6.4	10.2	4.3	6.7	7.9	6.1	6.9	7.9	6.9	7.4
7	8.4	6.1	7.0	6.9	4.4	5.8	10.0	5.6	7.6	8.2	6.6	7.4
8	9.5	6.1	7.5	6.9	5.4	6.2	12.6	5.0	8.2	8.4	6.5	7.4
9	10.9	6.0	7.9	8.3	5.5	6.7	12.9	4.4	7.7	9.0	6.1	7.4
10	11.8	6.1	8.3	10.5	4.8	7.4	---	---	---	10.4	6.1	7.7
11	12.6	5.9	8.5	---	---	---	---	---	---	11.4	5.9	7.9
12	12.2	4.9	8.1	---	---	---	---	---	---	11.3	5.8	7.9
13	11.4	4.6	7.2	---	---	---	---	---	---	11.9	5.7	8.1
14	10.6	3.9	6.3	---	---	---	---	---	---	11.7	5.6	7.9
15	---	---	---	6.1	5.4	5.7	---	---	---	11.7	5.5	7.8
16	---	---	---	6.9	5.3	6.1	12.8	4.7	7.7	11.5	6.2	8.3
17	---	---	---	7.3	5.4	6.3	12.4	4.9	7.8	12.2	6.7	8.9
18	---	---	---	9.2	5.3	7.0	12.0	5.1	7.6	10.3	6.9	7.9
19	---	---	---	---	---	---	7.3	5.4	6.2	7.4	6.4	7.0
20	11.1	4.8	6.9	---	---	---	9.5	5.7	7.2	8.1	6.0	7.0
21	10.5	4.8	6.9	---	---	---	11.0	5.7	8.0	8.8	6.1	7.1
22	9.8	4.8	6.9	11.6	5.4	7.7	11.2	5.5	7.8	8.4	5.9	7.2
23	9.7	5.2	6.9	11.2	5.2	7.6	11.0	5.1	7.5	8.6	6.8	7.7
24	9.6	5.3	6.9	7.7	6.0	6.7	---	---	---	7.2	6.3	6.8
25	9.8	5.2	6.9	8.3	5.7	6.8	---	---	---	---	---	---
26	10.0	4.8	7.0	10.3	5.3	7.3	8.7	4.7	6.2	---	---	---
27	9.2	4.2	6.2	11.3	5.3	7.7	8.8	4.6	6.3	---	---	---
28	9.1	4.1	6.0	10.9	5.0	7.4	10.1	4.8	6.8	---	---	---
29	6.7	5.2	5.7	10.9	5.0	7.3	10.1	4.7	6.6	---	---	---
30	6.8	5.2	6.0	10.5	4.8	7.0	9.7	4.7	6.3	---	---	---
31	---	---	---	9.5	4.7	6.5	7.4	4.9	5.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

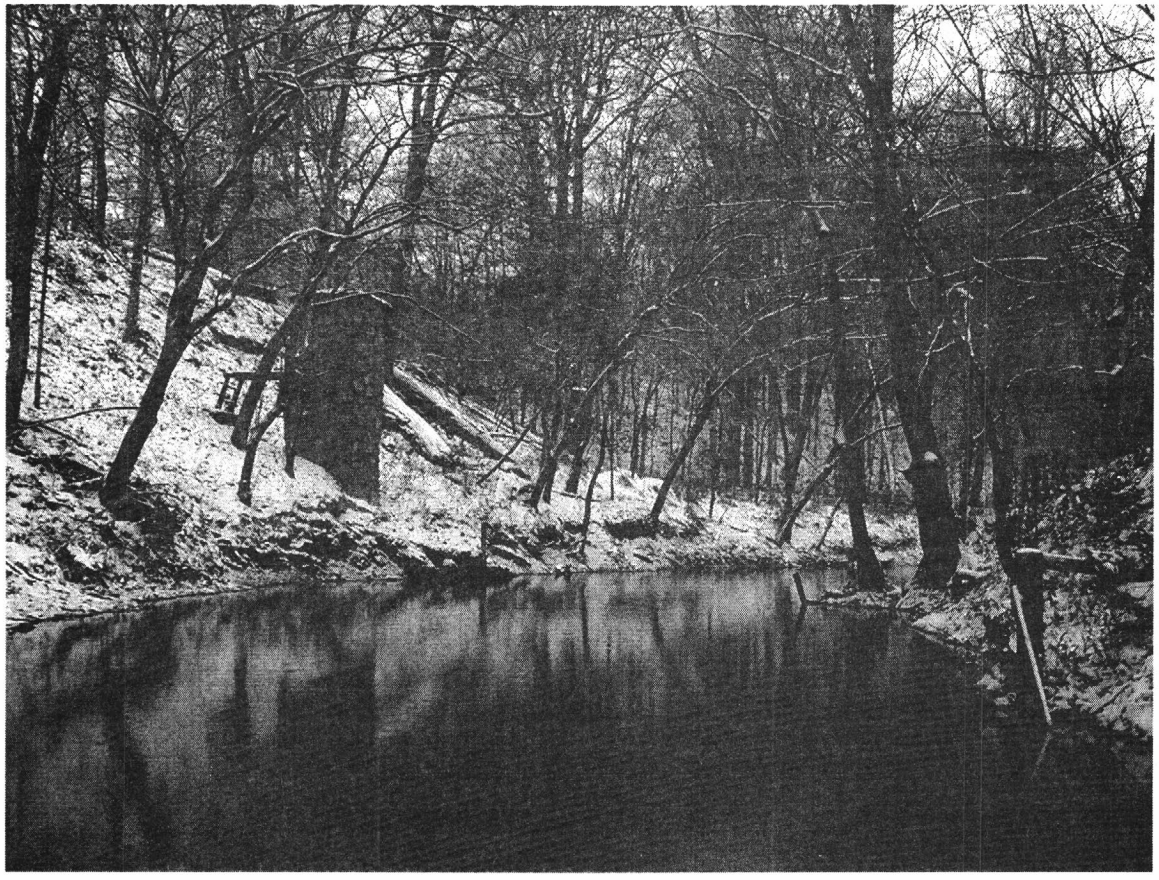
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	97	75	83	168	68	105	---	---	---	103	80	88
2	111	77	88	76	66	70	---	---	---	112	79	90
3	133	75	95	86	68	75	---	---	---	120	76	91
4	105	70	86	96	76	84	---	---	---	96	68	77
5	132	68	91	103	82	89	---	---	---	93	69	79
6	144	71	96	106	82	90	---	---	---	99	76	85
7	155	70	99	117	84	96	---	---	---	102	78	87
8	163	72	102	124	85	99	---	---	---	108	77	88
9	155	73	100	132	86	103	118	81	93	95	75	81
10	99	72	82	134	80	102	95	74	80	---	---	---
11	90	79	84	131	72	91	91	73	79	---	---	---
12	89	80	83	77	65	70	97	74	83	93	82	86
13	---	---	---	91	67	76	92	70	80	97	81	87
14	---	---	---	99	71	81	77	69	72	98	84	89
15	---	---	---	102	73	84	82	71	76	100	86	92
16	97	84	88	106	78	89	86	74	79	105	89	95
17	98	83	87	110	81	92	90	76	81	103	88	93
18	108	83	92	111	81	92	92	79	84	91	86	89
19	112	83	92	116	80	93	95	79	84	103	84	92
20	85	80	83	127	78	95	85	77	80	96	85	89
21	94	83	87	117	76	89	83	74	79	99	83	90
22	98	82	88	115	72	86	86	79	81	97	87	91
23	101	82	89	123	71	89	92	79	84	96	89	92
24	104	84	92	127	67	88	93	80	85	93	89	91
25	108	85	94	117	66	82	93	83	87	98	90	93
26	114	85	96	72	62	67	95	84	88	101	90	94
27	123	85	99	73	63	67	95	83	88	102	89	94
28	132	83	101	78	67	71	95	83	87	103	90	95
29	142	78	102	81	68	72	97	81	88	99	89	94
30	153	77	105	82	69	75	99	81	88	97	90	93
31	160	76	108	---	---	---	100	82	89	94	87	90
MONTH	---	---	---	168	62	85	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	96	86	90	127	85	100	122	69	90	121	73	90
2	95	86	89	135	83	103	98	71	81	---	---	---
3	97	86	90	140	83	104	94	68	79	---	---	---
4	98	87	92	111	80	91	97	67	80	---	---	---
5	102	90	95	135	77	98	111	75	88	---	---	---
6	103	91	96	147	78	104	115	74	89	---	---	---
7	109	93	99	155	77	106	116	70	87	---	---	---
8	110	94	100	163	76	108	97	68	77	---	---	---
9	111	92	99	163	74	107	89	74	80	136	67	94
10	109	89	97	156	71	102	100	76	84	---	---	---
11	113	85	96	144	67	94	106	75	87	---	---	---
12	95	77	89	121	64	85	108	73	87	---	---	---
13	92	86	89	130	71	93	87	72	80	126	64	88
14	97	84	91	134	77	98	86	79	83	111	57	77
15	95	82	87	137	74	97	88	81	84	125	59	85
16	96	82	87	92	71	77	89	75	82	145	68	97
17	96	81	87	88	72	78	90	69	79	158	72	107
18	85	80	83	97	73	82	85	69	75	172	74	112
19	91	79	83	94	74	81	94	72	80	172	74	111
20	94	75	83	85	72	80	101	69	82	167	73	111
21	96	78	84	86	74	78	105	69	83	154	75	108
22	---	---	---	86	73	78	110	70	86	141	53	92
23	---	---	---	89	72	78	125	72	91	140	51	85
24	---	---	---	95	71	79	121	69	85	129	51	77
25	---	---	---	101	69	80	79	70	74	133	47	82
26	---	---	---	108	66	81	98	74	83	131	56	84
27	---	---	---	93	65	76	107	73	86	126	55	82
28	---	---	---	87	67	75	81	71	76	114	58	78
29	---	---	---	98	69	80	98	75	83	112	58	80
30	---	---	---	110	69	84	107	74	86	127	62	87
31	---	---	---	119	70	87	---	---	---	133	66	90
MONTH	---	---	---	163	64	89	125	67	83	---	---	---

0214645022 BRIAR CREEK ABOVE COLONY RD AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	134	63	89	110	66	83	91	65	76	85	57	68
2	130	59	85	141	67	96	94	73	80	78	61	68
3	121	58	81	166	60	102	87	73	78	79	69	73
4	87	58	65	169	57	100	86	77	83	83	68	74
5	83	59	67	152	56	92	93	77	83	84	74	79
6	92	69	77	143	54	90	105	77	88	88	78	83
7	107	69	84	84	58	74	139	73	100	97	78	85
8	123	72	91	93	69	79	177	67	110	101	77	87
9	144	71	98	116	70	89	184	59	105	114	75	90
10	161	74	107	148	64	99	---	---	---	134	74	94
11	171	76	111	---	---	---	---	---	---	149	72	99
12	164	63	106	---	---	---	---	---	---	143	70	97
13	156	60	96	---	---	---	---	---	---	155	71	101
14	147	50	82	---	---	---	---	---	---	153	69	100
15	---	---	---	81	69	73	---	---	---	150	68	96
16	---	---	---	93	69	78	173	57	101	138	72	95
17	---	---	---	100	69	82	167	62	102	142	74	99
18	---	---	---	129	69	93	165	65	99	114	75	87
19	---	---	---	---	---	---	98	68	79	88	75	80
20	146	60	89	---	---	---	121	71	90	100	73	83
21	144	62	92	---	---	---	141	70	98	110	73	86
22	133	61	90	157	67	98	146	66	97	99	71	84
23	132	66	91	145	65	96	143	63	93	96	79	87
24	131	67	90	97	72	82	---	---	---	88	78	82
25	136	66	91	98	66	79	---	---	---	---	---	---
26	140	62	93	128	61	88	116	59	80	---	---	---
27	129	53	82	153	62	98	112	57	80	---	---	---
28	124	51	78	149	62	96	131	60	86	---	---	---
29	82	63	70	147	62	95	130	58	82	---	---	---
30	89	66	75	144	61	92	123	57	77	---	---	---
31	---	---	---	128	59	86	98	58	72	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---



Old USGS gaging station at Eno River at Hillsborough.

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

LOCATION.--Lat 35°09'53", long 80°51'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Seneca Place, 0.8 mi upstream from mouth, and 4 mi south of city hall in Charlotte.

DRAINAGE AREA.--2.63 mi^2, revised.

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 and concrete control. Datum of gage is 597.77 ft above sea level (North Carolina Coast and Geodetic Survey bench mark). Radio telemetry at station.

REMARKS.--Records fair. No flow occurred periodically in 1986, 1987, and 1988. Minimum discharge for current water year also occurred Aug. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.71	.59	.59	2.6	1.2	.95	1.0	1.2	.62	17	1.6
2	.40	6.3	.57	.62	2.0	1.1	2.4	1.1	.58	.58	2.9	4.0
3	.36	.55	.59	.56	1.8	1.2	2.7	1.0	.48	.52	1.0	5.6
4	1.1	.53	.57	3.7	1.7	2.1	1.0	.97	7.7	.47	4.4	.58
5	.47	.49	.62	.75	1.6	1.1	.95	.89	7.9	.46	.82	.37
6	.34	.51	.69	.59	1.5	1.1	.90	.83	.94	1.3	.72	.28
7	.36	.49	.70	.60	1.5	1.1	.84	.83	.71	.91	.67	.27
8	.43	.50	.46	.71	1.4	1.2	14	.80	.67	.41	.60	.32
9	.54	.49	.44	3.8	1.3	1.1	1.3	.79	.66	.36	.79	.33
10	49	.52	3.0	19	1.1	1.0	1.1	7.8	.60	.36	3.8	.34
11	46	.64	.55	1.4	2.2	2.9	1.0	1.2	.59	19	.67	.25
12	1.2	.56	.48	1.4	33	1.3	.96	.89	.52	20	.61	.31
13	5.4	.50	1.5	1.3	3.1	1.1	15	1.5	.49	1.8	.55	.23
14	.98	.48	7.8	1.3	33	1.1	13	1.3	2.7	.85	.53	.23
15	.74	.46	.66	1.4	2.4	1.2	24	.76	1.1	.71	.57	.24
16	.62	.47	.54	1.4	1.8	9.1	3.4	.77	.93	.61	.50	.19
17	.61	.46	.52	1.4	1.6	1.5	3.4	.74	.54	.55	.48	.19
18	.78	.79	.53	1.9	5.6	.96	2.2	.75	.76	.53	.98	12
19	.75	.95	.73	.84	1.6	.95	1.8	.75	.89	4.9	.86	3.4
20	8.4	.71	1.3	3.2	1.4	34	1.6	.72	.49	2.3	.41	.32
21	1.5	.52	5.6	.76	1.3	3.2	1.6	.76	.46	2.2	.41	.36
22	.69	.54	1.0	1.3	1.2	1.7	1.4	.69	.41	.67	.38	8.0
23	.61	.49	.65	13	1.3	1.4	1.4	.72	.39	2.0	.15	27
24	.56	.49	.61	4.9	1.2	1.3	4.8	1.6	.37	4.6	3.0	.45
25	.55	.48	.59	13	1.2	1.2	4.4	.79	.37	.79	1.4	5.8
26	.55	13	.61	2.5	1.1	1.2	1.3	.88	.35	.72	15	.59
27	.54	.87	.64	1.9	9.0	3.8	1.2	.67	.84	.66	.25	.32
28	.56	.63	.62	1.8	1.6	1.3	3.3	.94	14	.59	.27	.30
29	.59	.59	.56	3.0	1.3	1.1	1.2	.83	8.1	.56	.25	.28
30	.64	.56	.55	25	---	1.0	1.1	.68	.88	.52	.30	.28
31	.67	---	.56	4.1	---	1.2	---	1.2	---	.66	4.7	---
TOTAL	126.33	35.28	34.83	117.72	121.4	84.71	114.20	35.15	56.62	71.21	64.97	74.43
MEAN	4.08	1.18	1.12	3.80	4.19	2.73	3.81	1.13	1.89	2.30	2.10	2.48
MAX	49	13	7.8	25	33	34	24	7.8	14	20	17	27
MIN	.34	.46	.44	.56	1.1	.95	.84	.67	.35	.36	.15	.19
CFSM	1.55	.45	.43	1.44	1.59	1.04	1.45	.43	.72	.87	.80	.94
IN.	1.79	.50	.49	1.67	1.72	1.20	1.62	.50	.80	1.01	.92	1.05

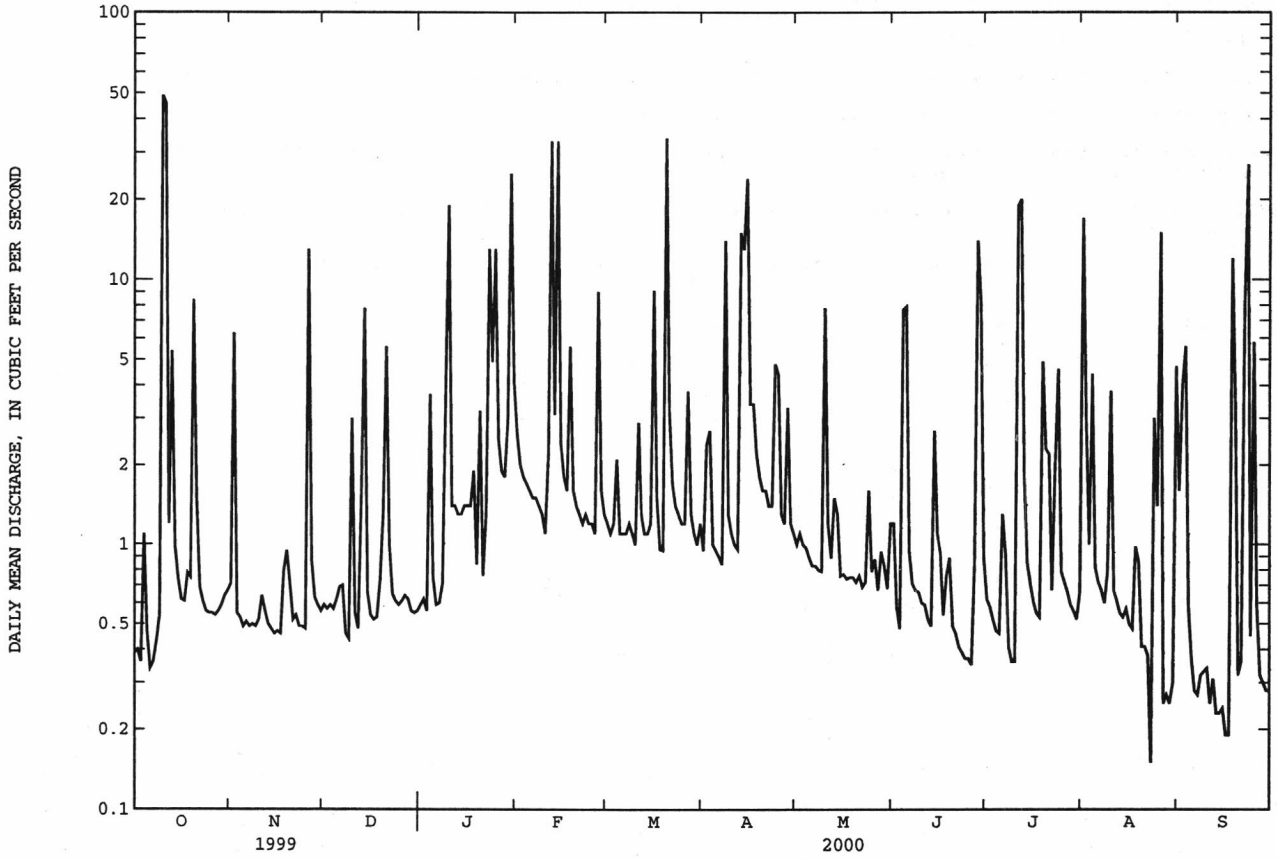
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000@, BY WATER YEAR (WY)

MEAN	2.51	3.00	3.08	4.59	5.71	4.41	3.46	2.68	2.49	3.05	2.75	2.40
MAX	5.05	10.5	10.5	9.46	8.96	9.04	9.13	6.65	7.18	13.8	9.12	8.17
(WY)	1990	1986	1984	1998	1990	1984	1998	1990	1985	1997	1995	1989
MIN	.57	.95	1.12	1.70	1.59	1.03	1.24	.88	.22	.31	.19	.34
(WY)	1988	1985	2000	1986	1986	1985	1985	1987	1986	1986	1987	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000@	
ANNUAL TOTAL	895.69		936.85			
ANNUAL MEAN	2.45		2.56		3.34	
HIGHEST ANNUAL MEAN					4.87	1984
LOWEST ANNUAL MEAN					2.27	1999
HIGHEST DAILY MEAN	64	Jan 23	49	Oct 10	282	Jul 23 1997
LOWEST DAILY MEAN	.11	Aug 10	.15	Aug 23	.00	Jul 14 1986
ANNUAL SEVEN-DAY MINIMUM	.12	Aug 10	.23	Sep 11	.00	Jul 14 1986
INSTANTANEOUS PEAK FLOW			454	Jul 12	1700	Jul 23 1997
INSTANTANEOUS PEAK STAGE			5.81	Jul 12	8.50	Jul 23 1997
INSTANTANEOUS LOW FLOW			.08*	Aug 23	.00*	Jul 14 1986
ANNUAL RUNOFF (CFSM)	.93		.97		1.27	
ANNUAL RUNOFF (INCHES)	12.67		13.25		17.26	
10 PERCENT EXCEEDS	5.0		5.1		6.1	
50 PERCENT EXCEEDS	.76		.86		.99	
90 PERCENT EXCEEDS	.22		.41		.27	

@ See PERIOD OF RECORD.
* See REMARKS.

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC--Continued



02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°08'52", long 80°51'29", Mecklenburg County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on Archdale Drive (Secondary Road 3657) in Charlotte, 0.7 mi downstream of Little Hope Creek, and 5.0 mi south of city hall, Charlotte.

DRAINAGE AREA.--42.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 564.46 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. A daily average of 22.6 ft^3/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 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	34	30	33	78	45	39	31	33	29	341	41
2	30	152	30	31	63	43	57	81	32	27	235	218
3	30	37	30	33	55	42	78	274	31	27	56	242
4	40	29	30	90	54	66	39	43	130	27	440	182
5	40	29	29	48	48	49	37	39	143	31	38	46
6	34	29	31	38	43	42	37	38	42	32	33	34
7	34	28	29	38	43	42	37	36	33	263	33	31
8	34	28	30	38	42	41	372	37	32	32	31	30
9	32	30	29	81	42	41	63	37	31	28	33	29
10	942	33	79	432	41	39	44	118	31	27	203	28
11	1160	72	36	58	47	55	42	44	30	198	35	28
12	53	46	29	43	518	58	40	36	31	707	31	28
13	161	30	43	41	74	39	424	40	30	66	29	28
14	48	29	223	35	695	39	195	54	75	45	27	27
15	40	29	40	33	77	39	552	34	54	147	29	27
16	28	29	35	33	55	341	114	34	35	32	29	26
17	28	29	33	33	50	100	84	34	30	30	28	25
18	28	29	33	47	127	42	67	34	32	29	125	190
19	27	30	35	38	54	39	43	34	47	49	53	187
20	162	29	48	83	47	836	39	34	31	73	30	32
21	72	29	128	37	44	119	38	33	30	35	29	32
22	31	31	51	34	43	60	36	38	30	28	28	246
23	28	31	38	224	44	50	35	33	34	30	29	1420
24	27	30	35	80	44	47	80	44	30	115	57	50
25	28	29	32	227	44	44	160	36	29	35	80	228
26	29	336	32	72	42	43	46	36	28	30	96	56
27	30	44	32	50	205	99	40	33	35	29	31	31
28	35	32	34	47	74	68	130	35	164	28	31	29
29	30	31	33	50	46	41	47	38	139	29	31	28
30	28	30	33	543	---	39	34	35	37	26	31	27
31	26	---	34	118	---	43	---	33	---	31	109	---
TOTAL	3348	1404	1384	2788	2839	2691	3049	1506	1489	2315	2411	3626
MEAN	108	46.8	44.6	89.9	97.9	86.8	102	48.6	49.6	74.7	77.8	121
MAX	1160	336	223	543	695	836	552	274	164	707	440	1420
MIN	26	28	29	31	41	39	34	31	28	26	27	25
CFSM	2.54	1.10	1.05	2.11	2.30	2.04	2.39	1.14	1.17	1.75	1.83	2.84
IN.	2.92	1.23	1.21	2.43	2.48	2.35	2.66	1.32	1.30	2.02	2.11	3.17

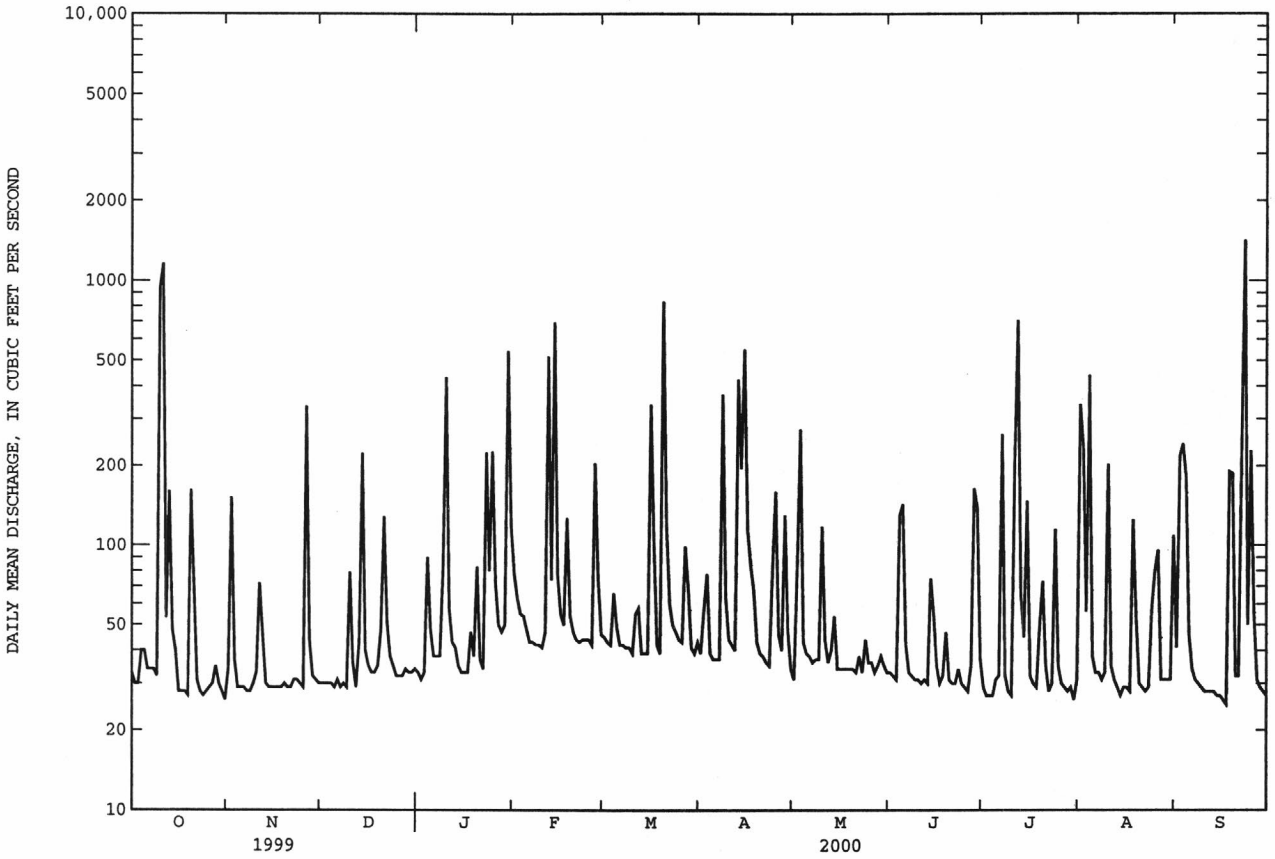
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2000, BY WATER YEAR (WY)

MEAN	73.0	71.9	69.2	112	115	118	86.7	69.6	71.5	71.0	74.4	64.5
MAX	258	197	164	207	194	245	205	119	152	310	227	147
(WY)	1991	1986	1984	1978	1979	1993	1998	1985	1992	1997	1995	1979
MIN	25.7	22.6	32.8	31.6	44.8	40.0	30.8	33.8	20.5	27.2	29.5	21.7
(WY)	1992	1982	1981	1981	1986	1985	1981	1986	1986	1986	1987	1986

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1978 - 2000	
ANNUAL TOTAL	26108		28850			
ANNUAL MEAN	71.5		78.8		83.0	
HIGHEST ANNUAL MEAN					110	1991
LOWEST ANNUAL MEAN					51.7	1981
HIGHEST DAILY MEAN	1520	Jan 23	1420	Sep 23	6160	Jul 23 1997
LOWEST DAILY MEAN	24	Aug 14	25	Sep 17	15	Sep 20 1981
ANNUAL SEVEN-DAY MINIMUM	25	Aug 10	27	Sep 11	15	May 28 1994
INSTANTANEOUS PEAK FLOW			5150	Jul 12	13600	Jul 23 1997
INSTANTANEOUS PEAK STAGE			10.11	Jul 12	15.06	Jul 23 1997
INSTANTANEOUS LOW FLOW			6.3*	Aug 18	6.3*	Aug 18 2000
ANNUAL RUNOFF (CFSM)	1.68		1.85		1.95	
ANNUAL RUNOFF (INCHES)	22.80		25.19		26.48	
10 PERCENT EXCEEDS	122		160		150	
50 PERCENT EXCEEDS	35		37		38	
90 PERCENT EXCEEDS	27		29		25	

* See REMARKS.

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued



02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

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

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection 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	31, February 14, 2000
pH, standard units	11.8, April 24, 2000	5.9, April 27, 1999
WATER TEMPERATURE, °C	31.6, July 31, 1999	2.5, January 30, 2000
DISSOLVED OXYGEN, mg/L	13.0, June 23, 1999	1.9, September 5, 1999
DISSOLVED OXYGEN, PERCENT SATURATION,%	159, June 26, 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	2560, April 24	31, February 14
pH, standard units	11.8, April 24	6.3, August 26
WATER TEMPERATURE, °C	30.7, August 9	2.5, January 30
DISSOLVED OXYGEN, mg/L	12.9, January 31, February 15	3.9, May 4
DISSOLVED OXYGEN, PERCENT SATURATION,%	159, June 26	46, May 4

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	602	427	527	615	498	577	578	477	554	498	412	470
2	599	468	562	624	163	344	600	464	571	464	384	437
3	651	529	600	572	338	488	605	494	581	498	417	464
4	629	423	550	620	448	549	591	482	544	592	264	441
5	618	418	525	624	488	594	591	501	547	573	342	477
6	615	493	597	602	524	579	543	421	512	615	479	559
7	643	502	607	618	522	579	620	503	568	623	454	571
8	645	497	602	599	448	540	658	509	603	673	483	613
9	657	562	634	596	466	544	629	557	602	653	262	474
10	645	65	359	603	428	550	605	219	430	---	---	---
11	338	52	146	623	265	504	607	399	510	---	---	---
12	599	318	479	483	285	393	661	516	601	665	433	568
13	593	169	305	489	405	466	652	321	525	633	433	580
14	480	323	402	536	433	492	407	108	249	609	474	584
15	584	323	493	556	486	532	548	324	474	600	467	549
16	580	380	514	595	502	557	610	445	558	543	428	512
17	570	489	539	621	506	579	613	450	581	518	382	483
18	574	497	549	628	469	589	637	509	599	570	346	436
19	588	497	556	634	504	590	630	488	576	576	454	519
20	545	146	273	604	523	585	519	372	443	528	269	377
21	491	180	321	606	499	575	568	172	379	565	420	513
22	519	285	458	572	445	512	468	301	383	566	482	530
23	557	438	515	538	469	506	590	430	514	1030	279	490
24	605	490	560	565	454	538	590	457	546	417	334	382
25	594	498	557	608	474	567	514	406	454	875	376	593
26	565	497	536	592	98	278	443	372	421	450	362	406
27	599	498	555	409	238	336	502	390	442	452	390	428
28	719	542	656	454	376	421	606	472	545	470	369	435
29	687	538	609	514	400	454	626	448	587	500	347	462
30	594	499	564	566	479	529	626	471	564	561	164	310
31	573	482	542	---	---	---	544	418	508	297	187	247
MONTH	719	52	506	634	98	512	661	108	515	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	336	275	314	487	391	464	523	435	494	534	399	480
2	371	304	342	523	421	492	492	272	391	550	99	515
3	427	336	389	520	426	488	384	222	307	295	69	192
4	397	336	379	482	272	385	493	333	425	455	295	347
5	436	344	403	429	330	389	542	380	509	461	378	440
6	453	384	426	491	380	432	539	413	510	485	394	460
7	457	377	436	509	438	486	553	415	524	483	424	463
8	476	394	442	518	404	487	543	93	352	530	427	480
9	499	401	477	546	412	509	408	181	305	557	474	524
10	486	398	465	536	380	500	513	387	452	610	153	479
11	484	323	451	526	301	463	545	432	497	586	339	485
12	381	108	217	484	293	404	572	457	538	620	516	582
13	319	196	268	525	352	471	559	93	292	608	347	543
14	290	31	129	539	425	514	333	126	270	492	288	410
15	353	249	311	601	493	555	197	107	159	540	410	488
16	413	319	372	595	102	368	308	180	242	610	453	554
17	461	365	432	418	165	324	355	179	313	619	474	592
18	413	190	254	497	369	433	417	226	337	610	490	579
19	365	294	342	496	394	463	483	352	435	571	463	539
20	388	326	367	479	74	206	577	376	482	593	490	542
21	412	354	387	317	164	236	504	402	481	604	478	574
22	427	336	406	428	313	386	498	402	469	586	424	538
23	450	344	427	444	346	427	480	413	450	625	460	588
24	460	360	435	506	345	428	2560	179	438	678	331	543
25	443	335	421	538	433	500	351	154	234	662	476	619
26	438	352	417	505	386	478	461	336	407	628	516	594
27	444	126	336	466	171	371	496	409	464	625	483	589
28	365	193	282	425	210	340	504	204	329	597	342	529
29	458	322	398	497	349	451	465	318	399	511	369	460
30	---	---	---	528	398	501	501	367	469	564	430	506
31	---	---	---	525	405	484	---	---	---	630	448	549
MONTH	499	31	370	601	74	433	2560	93	399	678	69	509

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	642	467	611	668	558	634	572	79	197	552	284	458
2	651	492	623	638	547	608	397	74	217	542	84	206
3	646	533	619	646	528	606	496	154	372	386	77	217
4	621	105	363	665	550	633	399	96	221	362	85	215
5	547	117	358	641	411	575	526	322	429	486	222	374
6	554	335	460	617	424	573	583	460	552	607	388	540
7	625	472	570	624	71	335	618	493	563	648	472	607
8	668	500	624	615	410	511	599	480	567	657	501	623
9	624	497	598	618	503	586	667	415	597	630	478	595
10	664	525	622	637	504	590	670	122	342	619	480	584
11	662	521	629	---	---	---	566	386	498	609	479	585
12	655	531	630	---	---	---	585	437	530	628	534	593
13	678	526	641	---	---	---	614	499	583	666	502	624
14	669	188	527	---	---	---	586	478	560	663	558	639
15	610	240	478	---	---	---	641	499	598	736	561	667
16	609	434	567	---	---	---	654	525	627	734	602	697
17	640	496	598	---	---	---	659	535	635	668	533	601
18	647	416	584	611	501	584	660	117	543	606	81	485
19	596	285	481	615	136	554	549	191	409	440	124	257
20	675	526	629	554	144	395	625	467	577	633	385	552
21	697	506	661	582	384	521	710	489	629	619	467	564
22	689	575	665	597	543	581	718	560	686	580	101	378
23	688	456	631	599	212	559	709	556	677	208	46	108
24	680	544	651	471	152	306	701	181	628	384	208	304
25	689	552	651	516	412	482	529	198	381	452	78	311
26	672	526	642	592	482	547	594	81	416	427	150	319
27	658	424	557	616	481	587	626	483	585	517	365	479
28	745	152	565	612	546	591	627	490	595	509	391	470
29	424	152	282	612	460	571	688	515	635	541	427	518
30	624	402	536	624	513	600	744	586	689	542	441	522
31	---	---	---	597	444	538	586	129	425	---	---	---
MONTH	745	105	568	---	---	---	744	74	515	736	46	470

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.6	7.3	7.4	7.5	7.3	7.4	7.4	7.1	7.2	7.2	6.9	7.1
2	7.6	7.4	7.5	7.5	7.1	7.2	7.3	7.1	7.2	7.2	6.8	7.0
3	7.7	7.4	7.5	7.3	7.1	7.2	7.4	7.2	7.3	7.1	6.8	6.9
4	7.5	7.3	7.4	7.4	7.2	7.3	7.4	7.1	7.3	7.2	6.9	7.0
5	7.5	7.3	7.3	7.4	7.2	7.3	7.6	7.2	7.3	7.2	6.9	7.0
6	7.7	7.3	7.5	7.5	7.3	7.4	7.5	7.2	7.3	7.1	7.0	7.1
7	7.9	7.3	7.6	7.5	7.3	7.3	7.5	7.2	7.3	7.1	7.0	7.0
8	7.7	7.3	7.5	7.5	7.2	7.3	7.5	7.2	7.3	7.2	7.1	7.1
9	7.8	7.4	7.5	7.7	7.2	7.3	7.4	7.2	7.3	7.2	7.0	7.1
10	7.5	6.8	7.2	7.8	7.2	7.4	7.5	7.2	7.3	---	---	---
11	7.0	6.7	6.8	7.5	7.2	7.4	7.3	7.2	7.3	---	---	---
12	7.2	7.0	7.1	7.3	7.0	7.2	7.4	7.2	7.3	7.3	7.2	7.2
13	7.3	7.1	7.1	7.4	7.1	7.3	7.4	7.2	7.3	8.5	7.2	7.3
14	7.3	7.1	7.2	7.5	7.3	7.4	7.2	6.7	7.1	7.4	7.2	7.3
15	7.4	7.2	7.3	7.4	7.1	7.3	7.3	7.1	7.2	7.4	7.3	7.3
16	7.6	7.3	7.5	7.5	7.1	7.3	7.3	7.2	7.2	7.4	7.2	7.3
17	7.6	7.4	7.5	7.4	7.0	7.3	7.3	7.2	7.3	7.4	7.2	7.3
18	7.7	7.4	7.5	7.5	7.2	7.3	7.3	7.2	7.3	7.4	7.2	7.3
19	7.6	7.4	7.5	7.5	7.3	7.4	7.4	7.2	7.3	7.3	7.2	7.3
20	7.4	7.1	7.3	7.7	7.3	7.5	7.3	7.2	7.3	7.4	7.2	7.3
21	7.3	7.2	7.2	7.8	7.4	7.5	7.3	7.1	7.2	7.4	7.3	7.3
22	7.5	7.2	7.3	7.8	7.4	7.6	7.2	7.1	7.2	7.5	7.4	7.4
23	7.6	7.3	7.5	7.9	7.5	7.6	7.4	7.2	7.3	7.4	7.0	7.2
24	7.7	7.4	7.5	7.8	7.5	7.6	7.4	7.2	7.3	7.2	7.0	7.1
25	7.6	7.4	7.5	7.8	7.4	7.5	7.3	7.1	7.2	7.3	7.1	7.2
26	7.6	7.3	7.5	7.5	7.0	7.2	7.2	7.0	7.1	7.2	7.1	7.2
27	7.7	7.3	7.4	7.1	7.0	7.1	7.2	7.0	7.1	7.3	7.1	7.2
28	7.6	7.3	7.5	7.1	6.9	7.1	7.3	7.0	7.1	7.3	7.1	7.3
29	7.8	7.5	7.6	7.2	7.0	7.1	7.3	7.1	7.1	7.3	7.2	7.3
30	7.9	7.4	7.5	7.2	7.0	7.1	7.2	7.1	7.1	7.3	6.8	7.0
31	7.8	7.3	7.6	---	---	---	7.3	7.1	7.2	7.1	6.8	7.0
MONTH	7.9	6.7	7.4	7.9	6.9	7.3	7.6	6.7	7.2	---	---	---

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	7.0	7.1	7.5	7.1	7.3	7.5	7.0	7.1	7.6	7.2	7.3
2	7.2	7.0	7.1	7.6	7.2	7.3	7.3	7.0	7.1	8.0	7.2	7.4
3	7.2	7.1	7.2	7.6	7.2	7.4	7.1	6.9	7.0	7.5	6.9	7.1
4	7.3	7.1	7.2	7.4	7.1	7.3	7.2	7.0	7.1	7.3	7.2	7.2
5	7.3	7.2	7.2	7.4	7.0	7.2	7.3	7.0	7.2	7.4	7.2	7.3
6	7.4	7.2	7.3	7.5	7.0	7.2	7.4	7.1	7.2	7.5	7.2	7.3
7	7.3	7.1	7.2	7.7	7.1	7.4	7.6	7.1	7.2	7.6	7.1	7.3
8	7.2	7.1	7.1	8.5	7.2	7.5	7.4	6.8	7.1	7.4	7.1	7.2
9	7.2	7.0	7.1	8.3	7.3	7.6	7.1	6.9	7.0	7.7	7.2	7.3
10	7.4	7.1	7.2	8.8	7.3	7.6	7.1	6.8	7.0	7.9	7.0	7.4
11	7.4	7.2	7.3	8.2	7.3	7.5	7.5	7.1	7.3	7.4	7.1	7.3
12	7.3	7.0	7.1	7.6	7.2	7.4	7.5	7.2	7.3	7.5	7.3	7.3
13	7.2	7.0	7.1	7.5	7.1	7.3	7.3	6.9	7.1	7.5	7.2	7.3
14	7.2	6.8	7.0	7.5	7.1	7.3	7.2	7.1	7.1	7.3	7.0	7.1
15	7.2	6.9	7.1	7.6	7.2	7.3	7.1	7.0	7.0	7.4	7.0	7.2
16	7.3	7.2	7.2	8.5	7.1	7.4	7.2	7.0	7.1	7.6	7.1	7.3
17	7.4	7.2	7.3	7.2	7.0	7.1	7.6	7.1	7.3	7.6	7.2	7.4
18	7.3	7.1	7.2	7.3	7.1	7.2	7.4	7.1	7.2	7.9	7.2	7.4
19	7.3	7.1	7.2	7.3	7.1	7.2	7.4	7.2	7.3	8.0	7.3	7.5
20	7.3	7.2	7.3	7.3	6.9	7.1	9.7	7.2	7.7	7.9	7.3	7.5
21	7.4	7.2	7.3	7.2	7.0	7.1	7.3	7.0	7.2	7.6	7.2	7.4
22	7.5	7.2	7.3	7.3	7.0	7.2	7.5	7.0	7.2	7.7	7.2	7.4
23	7.4	7.2	7.3	7.3	7.2	7.2	7.8	7.3	7.4	8.0	7.3	7.5
24	7.4	7.1	7.2	7.3	7.2	7.2	11.8	7.2	7.8	7.8	7.3	7.4
25	7.4	7.1	7.3	7.4	7.1	7.3	7.3	7.1	7.2	7.6	7.3	7.4
26	7.6	7.2	7.4	7.3	6.9	7.1	7.5	7.3	7.4	7.8	7.2	7.4
27	7.7	7.1	7.3	7.3	6.9	7.1	7.7	7.3	7.5	7.7	7.2	7.4
28	7.3	7.1	7.2	7.2	7.0	7.1	7.4	7.2	7.3	7.6	7.1	7.3
29	7.4	7.2	7.3	7.3	7.0	7.1	7.5	7.3	7.4	7.5	7.1	7.2
30	---	---	---	7.3	7.0	7.2	7.6	7.2	7.4	7.8	7.1	7.3
31	---	---	---	7.5	7.1	7.2	---	---	---	7.8	7.2	7.4
MONTH	7.7	6.8	7.2	8.8	6.9	7.3	11.8	6.8	7.2	8.0	6.9	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.3	7.4	7.5	7.2	7.4	7.3	6.9	7.0	7.4	6.9	7.2
2	7.9	7.3	7.5	7.5	7.1	7.3	7.1	6.7	6.9	7.3	6.6	7.0
3	7.9	7.4	7.6	7.5	7.0	7.2	7.1	6.7	7.0	7.1	6.6	6.9
4	7.6	7.2	7.2	7.6	6.8	7.2	7.7	6.8	7.0	7.1	6.6	6.8
5	7.4	7.1	7.2	7.4	6.8	7.0	7.2	7.0	7.1	7.2	6.9	7.1
6	7.4	7.2	7.3	7.4	6.9	7.1	7.3	7.1	7.2	7.4	7.2	7.3
7	7.6	7.3	7.4	6.9	6.6	6.7	7.6	7.1	7.3	7.4	7.3	7.3
8	7.7	7.4	7.5	7.0	6.7	6.9	7.5	7.3	7.4	7.5	7.3	7.4
9	7.8	7.4	7.5	7.0	6.8	7.0	7.6	7.2	7.4	7.5	7.2	7.3
10	8.1	7.4	7.7	7.4	6.9	7.1	7.7	7.1	7.2	7.5	7.2	7.3
11	8.3	7.4	7.7	7.5	6.6	7.1	7.4	7.2	7.3	7.6	7.2	7.3
12	8.2	7.3	7.6	7.3	6.6	6.9	7.6	7.3	7.4	7.9	7.2	7.4
13	8.2	7.2	7.5	6.9	6.6	6.7	7.4	7.1	7.2	7.5	7.1	7.2
14	7.8	6.8	7.3	7.1	6.8	6.9	7.6	7.1	7.3	7.6	7.1	7.3
15	7.1	6.7	7.0	7.2	6.8	7.1	7.3	7.0	7.1	7.5	7.2	7.3
16	7.3	6.9	7.1	7.3	7.2	7.2	7.5	7.0	7.2	7.4	7.1	7.3
17	7.5	7.0	7.2	7.4	7.1	7.2	7.7	7.1	7.3	7.5	7.0	7.2
18	7.7	7.1	7.3	7.5	7.2	7.3	8.1	6.9	7.3	7.5	7.0	7.2
19	7.4	6.9	7.1	7.7	6.8	7.3	7.2	6.9	7.1	7.2	7.1	7.2
20	7.6	7.1	7.3	7.2	6.8	7.1	7.5	7.2	7.3	7.2	7.1	7.1
21	7.8	7.2	7.4	7.2	7.0	7.1	7.6	7.2	7.3	7.3	7.1	7.2
22	7.8	7.3	7.5	7.3	7.0	7.1	7.8	7.2	7.4	7.3	7.0	7.2
23	8.0	7.3	7.6	7.4	7.1	7.2	7.5	7.1	7.2	7.1	6.8	7.0
24	8.0	7.3	7.5	7.2	7.0	7.1	7.7	6.9	7.3	7.2	7.0	7.1
25	8.1	7.3	7.6	7.2	7.0	7.1	7.1	6.7	6.9	7.2	6.7	7.1
26	8.1	7.2	7.5	7.4	7.1	7.2	7.1	6.3	6.9	7.2	6.9	7.1
27	8.0	7.1	7.4	7.4	7.1	7.2	7.1	7.0	7.0	7.1	7.0	7.1
28	8.3	7.0	7.6	7.6	7.1	7.3	7.3	6.9	7.1	7.2	7.0	7.1
29	7.3	7.1	7.2	7.8	7.2	7.4	7.3	6.9	7.1	7.3	7.1	7.1
30	7.4	7.2	7.3	7.6	7.0	7.3	7.6	7.1	7.3	7.1	6.9	7.1
31	---	---	---	7.7	7.0	7.2	7.5	6.8	7.2	---	---	---
MONTH	8.3	6.7	7.4	7.8	6.6	7.1	8.1	6.3	7.2	7.9	6.6	7.2

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.6	21.2	23.3	23.0	20.2	21.9	16.7	12.3	15.2	15.3	12.2	13.9
2	25.8	21.4	23.7	22.5	18.4	20.0	16.9	11.2	15.2	16.5	13.1	15.1
3	26.3	22.6	24.5	20.5	15.9	18.8	17.2	12.3	15.6	17.5	14.9	16.3
4	24.9	22.3	23.8	20.0	15.2	18.2	18.0	14.1	16.3	17.8	14.9	16.3
5	25.1	21.9	23.5	20.0	15.1	18.4	18.2	14.4	16.7	15.8	12.8	14.5
6	25.4	21.3	23.8	20.4	16.5	18.7	19.3	16.1	17.9	15.6	11.7	14.2
7	25.7	21.3	23.8	21.1	17.2	19.3	17.7	14.7	16.4	16.8	12.8	15.2
8	25.2	21.2	23.8	21.7	18.3	19.8	17.4	13.8	15.9	16.3	11.9	14.7
9	25.4	22.8	24.3	22.1	17.9	20.1	17.8	13.9	16.3	15.5	10.9	13.2
10	24.7	20.7	22.7	22.3	18.3	20.8	17.7	14.0	16.0	---	---	---
11	22.3	20.0	21.1	22.0	16.1	19.8	17.0	13.1	15.5	---	---	---
12	23.3	21.2	22.6	20.4	16.6	18.7	16.8	13.9	15.7	15.9	11.2	14.1
13	23.0	19.1	20.4	21.0	16.9	19.5	17.5	14.5	16.0	17.0	12.4	15.0
14	23.8	20.6	22.0	21.3	17.8	19.8	16.0	13.2	15.1	14.7	11.1	13.5
15	23.8	19.7	22.0	20.4	17.9	19.3	16.6	12.9	15.5	13.8	9.7	12.4
16	23.8	19.0	22.0	19.5	16.6	18.3	16.7	13.4	15.4	14.8	10.2	13.1
17	23.5	21.8	22.7	19.1	14.1	17.5	16.3	11.3	14.9	14.5	10.9	13.4
18	23.8	21.2	22.5	18.6	13.3	17.2	16.2	12.5	15.0	13.4	8.7	10.8
19	22.1	20.8	21.7	19.0	14.2	17.5	16.0	13.4	15.2	13.4	10.0	11.9
20	21.3	16.8	18.1	20.1	16.9	18.7	15.0	13.0	14.1	12.7	8.0	10.5
21	20.3	16.3	18.5	19.8	17.0	18.8	15.8	10.7	13.3	12.8	9.4	11.3
22	21.2	15.9	19.6	20.2	18.1	19.2	15.3	12.6	14.2	11.6	9.0	10.3
23	21.2	17.9	19.7	20.8	18.2	19.8	16.0	13.2	14.9	9.7	3.3	6.2
24	20.6	16.8	18.9	21.9	19.0	20.6	15.2	11.7	14.0	7.5	4.8	6.4
25	20.2	16.5	18.7	21.1	19.1	20.5	13.9	10.6	12.5	6.1	3.6	5.1
26	20.6	16.9	19.1	20.5	17.0	18.4	13.4	9.4	11.9	8.7	5.4	7.2
27	21.2	17.5	19.6	18.6	15.9	17.4	14.2	10.1	12.4	9.7	5.1	8.0
28	21.9	17.8	20.2	18.8	15.5	17.3	14.2	10.4	12.7	10.0	5.2	8.5
29	21.6	17.3	20.1	18.7	16.3	17.5	14.4	9.0	12.9	9.7	5.0	8.7
30	21.8	17.9	20.3	17.3	14.6	16.1	14.4	9.5	13.0	5.1	2.5	4.1
31	22.3	19.0	20.9	---	---	---	14.9	10.8	13.7	7.3	4.2	5.9
MONTH	26.3	15.9	21.5	23.0	13.3	18.9	19.3	9.0	14.8	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.1	5.4	7.3	17.4	13.0	15.5	20.8	16.0	18.7	22.1	17.3	19.9
2	9.9	6.0	8.0	18.0	14.4	16.2	18.7	17.4	17.8	22.1	18.5	20.7
3	10.4	6.1	8.8	16.6	13.6	15.3	20.2	17.0	18.6	21.5	17.5	19.7
4	10.8	7.8	9.5	15.5	12.8	14.2	20.2	16.9	18.9	22.6	19.1	21.0
5	11.1	6.9	9.5	17.0	11.8	14.5	19.3	14.2	17.3	24.0	19.1	21.6
6	11.6	7.4	9.9	18.0	13.3	15.9	20.7	14.9	18.3	24.6	20.0	22.3
7	12.6	8.6	10.8	18.9	14.6	16.9	22.0	16.8	19.7	24.9	20.5	22.6
8	12.7	9.3	11.5	19.8	15.1	17.8	19.8	14.7	17.7	24.7	20.9	22.7
9	13.6	9.0	12.0	20.2	16.1	18.4	18.0	12.9	15.6	25.3	21.5	23.1
10	13.7	9.4	12.4	20.1	16.8	18.8	19.5	14.1	17.1	25.2	21.7	22.9
11	15.4	10.8	13.6	20.5	17.8	18.9	20.7	16.7	18.9	24.8	20.2	22.6
12	13.1	8.7	10.3	18.6	15.4	16.9	20.6	18.5	19.7	26.2	21.6	23.8
13	10.2	8.7	9.5	17.6	13.1	15.4	19.2	11.3	14.4	26.8	22.8	24.5
14	11.6	7.7	9.8	18.1	12.8	15.9	14.2	12.5	13.4	25.5	22.2	23.6
15	13.2	9.8	11.6	19.2	14.5	17.0	14.8	12.5	13.6	24.2	20.7	22.3
16	14.8	10.5	12.8	17.3	15.3	16.4	20.1	14.7	17.2	24.3	20.0	22.3
17	14.7	11.6	13.5	19.5	15.7	17.3	20.1	16.9	18.5	24.2	20.6	22.8
18	13.1	9.6	10.7	17.4	13.1	15.4	19.4	17.2	18.2	25.7	21.9	23.8
19	15.0	10.8	12.9	16.2	13.4	15.3	21.5	16.6	19.2	26.7	22.6	24.5
20	14.4	10.8	12.8	15.8	12.1	14.0	22.2	17.7	20.2	26.5	23.1	24.8
21	14.2	10.4	12.5	17.2	13.3	15.2	22.0	19.1	20.4	25.1	23.5	24.3
22	13.7	10.4	12.3	18.5	13.2	16.1	19.6	16.9	18.3	26.5	22.8	24.4
23	15.3	10.5	13.6	19.2	14.6	17.1	20.2	15.8	18.2	25.4	22.0	24.0
24	16.6	12.2	14.8	19.8	14.3	17.6	19.8	17.5	18.4	25.8	22.6	24.3
25	17.7	12.9	15.8	20.6	16.1	18.4	17.6	15.3	16.4	26.4	23.4	24.9
26	17.6	14.5	16.3	20.8	17.4	19.0	19.9	15.1	17.3	26.5	23.1	24.9
27	18.1	15.8	16.6	18.2	15.5	16.9	21.1	16.4	18.8	26.8	23.5	25.1
28	17.0	14.0	15.4	18.4	14.3	16.4	19.0	15.8	17.0	25.9	23.7	24.7
29	16.6	12.6	14.7	17.7	14.3	16.5	20.3	15.4	17.9	25.7	22.6	23.9
30	---	---	---	19.5	15.2	17.6	21.6	16.1	19.1	25.0	21.1	23.2
31	---	---	---	20.7	16.2	18.6	---	---	---	26.1	20.9	23.8
MONTH	18.1	5.4	12.0	20.8	11.8	16.6	22.2	11.3	17.8	26.8	17.3	23.2

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.2	22.0	25.0	28.5	24.9	26.8	27.3	24.2	25.7	28.2	25.4	27.1
2	28.4	23.7	26.1	28.7	24.6	26.8	27.9	24.7	25.9	27.3	25.1	26.0
3	27.9	24.8	26.2	28.6	25.2	27.0	27.7	25.0	26.3	27.2	24.8	25.6
4	25.5	23.5	24.4	29.2	25.5	27.3	26.3	23.0	24.9	26.3	24.0	24.9
5	24.3	22.7	23.4	28.7	25.8	27.3	28.4	24.8	26.8	25.2	23.9	24.7
6	25.9	22.5	24.1	29.0	26.0	27.6	28.1	25.7	27.2	24.1	22.0	23.6
7	26.2	21.7	23.9	27.8	23.8	26.4	29.7	26.2	28.0	26.0	21.8	24.6
8	26.6	21.4	24.4	28.6	25.2	26.9	30.2	27.0	28.5	26.7	23.1	25.4
9	27.4	22.3	25.1	29.5	25.8	27.5	30.7	26.8	28.7	27.9	23.6	26.0
10	28.0	23.5	25.8	29.6	26.0	27.8	28.9	24.0	27.1	27.4	24.0	26.2
11	28.2	24.0	26.1	29.9	25.8	27.9	29.4	26.5	27.9	28.1	24.4	26.5
12	27.9	24.3	26.2	28.1	25.7	26.5	29.3	25.9	27.5	28.2	25.0	26.7
13	28.8	24.9	26.7	26.0	25.3	25.7	28.8	25.4	27.0	28.1	24.7	26.9
14	28.5	25.6	27.0	28.6	25.2	27.0	28.7	24.4	26.9	28.8	26.0	27.4
15	29.0	25.1	26.9	28.8	24.6	26.6	29.2	25.1	27.4	28.3	25.7	27.0
16	28.6	25.3	26.9	29.4	25.5	27.3	29.8	25.8	28.1	27.1	23.5	25.6
17	28.8	25.8	27.2	29.4	25.3	27.4	30.0	26.5	28.4	26.3	21.8	24.6
18	29.2	25.8	27.4	29.7	26.1	27.9	30.3	25.8	28.0	24.7	18.6	23.2
19	27.8	25.5	26.6	28.7	26.6	27.8	28.8	24.9	26.9	24.3	19.0	21.8
20	27.7	25.8	26.6	29.7	26.2	27.8	27.9	26.1	27.0	26.7	22.4	25.0
21	29.0	25.3	27.4	28.1	26.1	27.2	28.3	25.1	27.0	26.5	24.4	25.7
22	28.6	26.3	27.5	29.4	26.5	27.7	28.9	24.7	27.1	25.6	21.1	23.6
23	29.4	25.4	27.4	28.2	24.9	27.3	28.9	24.5	27.2	22.5	19.3	20.8
24	28.6	25.7	27.2	26.4	24.3	25.3	29.4	24.9	27.5	25.8	22.2	24.0
25	29.6	25.8	27.6	25.5	24.4	25.0	28.6	24.5	26.7	26.8	24.1	25.0
26	29.6	25.8	27.6	26.6	24.4	25.6	28.7	19.7	26.2	24.2	22.0	23.1
27	29.8	25.5	27.5	28.8	24.4	26.9	27.8	26.3	27.1	24.1	19.8	22.5
28	29.1	25.6	27.2	29.1	25.8	27.5	29.0	25.3	27.3	24.8	20.2	22.9
29	25.9	24.8	25.3	29.4	25.4	27.4	28.4	25.5	27.1	24.3	20.5	22.9
30	28.5	23.4	26.2	29.5	26.3	27.8	28.2	25.7	27.0	24.7	20.7	23.2
31	---	---	---	29.1	26.5	27.7	27.9	24.5	26.2	---	---	---
MONTH	29.8	21.4	26.2	29.9	23.8	27.1	30.7	19.7	27.1	28.8	18.6	24.8

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.3	9.4	11.4	10.6	7.9	9.0	11.0	7.5	8.9	9.4	5.6	7.7
2	11.6	10.2	11.1	10.8	7.8	8.9	10.1	7.2	8.4	9.6	5.6	7.5
3	11.8	10.0	10.9	11.4	7.3	9.2	8.4	7.3	7.7	7.1	4.9	6.3
4	11.8	10.1	10.8	10.2	7.7	8.8	9.4	7.3	8.3	7.0	3.9	5.9
5	11.7	10.3	11.0	10.6	7.7	8.9	10.3	7.0	9.1	7.7	4.5	6.4
6	12.0	10.6	11.2	11.8	7.4	9.3	10.5	7.7	9.1	9.4	5.3	7.3
7	11.4	9.7	10.6	12.2	8.0	9.7	10.8	7.2	8.9	---	---	---
8	11.1	10.1	10.7	12.4	7.8	9.5	---	---	---	---	---	---
9	12.4	10.1	11.0	12.1	7.4	9.3	---	---	---	11.3	5.9	7.7
10	12.5	9.9	11.5	12.4	6.3	9.1	---	---	---	11.1	5.6	7.5
11	12.4	9.5	11.1	11.5	6.7	8.7	9.0	6.4	7.7	7.4	5.8	6.5
12	10.9	9.6	10.4	9.6	6.6	8.3	9.0	6.4	7.4	7.9	5.6	6.7
13	12.0	9.3	10.4	10.7	6.9	8.9	9.1	6.1	7.6	8.2	5.5	6.7
14	11.6	9.6	10.6	10.9	6.7	8.5	8.6	7.3	7.8	7.8	5.3	6.4
15	12.9	7.8	10.7	11.6	6.7	8.5	8.7	7.1	8.0	8.5	5.7	7.1
16	11.4	8.8	10.0	---	---	---	7.3	5.7	6.7	9.5	5.7	7.4
17	10.2	8.7	9.6	---	---	---	7.0	5.2	6.2	9.8	5.4	7.5
18	11.5	9.5	10.6	---	---	---	6.6	5.1	5.8	10.3	4.8	7.6
19	10.3	9.1	9.8	---	---	---	7.2	5.3	6.4	10.1	4.8	7.3
20	10.3	9.2	9.9	---	---	---	7.6	5.5	6.7	9.8	5.3	7.3
21	10.8	9.6	10.2	---	---	---	8.1	6.0	7.0	9.6	5.1	7.2
22	11.4	9.6	10.5	---	---	---	9.0	6.4	7.8	9.9	5.6	7.5
23	11.2	9.2	10.4	9.3	7.0	8.2	---	---	---	10.5	5.2	7.9
24	11.5	8.4	10.1	9.5	7.0	8.3	---	---	---	9.3	6.2	7.4
25	11.4	8.4	9.8	9.5	6.8	8.4	8.3	7.4	8.0	9.1	5.7	7.3
26	11.2	8.2	9.5	10.2	7.2	8.4	9.3	7.6	8.4	9.8	5.9	7.2
27	11.2	7.2	8.9	10.1	6.7	8.6	9.7	7.4	8.3	9.2	5.3	7.3
28	9.3	7.8	8.5	9.1	7.3	8.3	8.1	7.3	7.8	8.2	5.5	6.9
29	10.2	7.8	8.9	9.9	7.8	8.7	8.6	7.2	7.9	8.2	5.3	6.8
30	---	---	---	10.2	7.8	8.7	9.0	7.0	8.0	9.2	5.6	7.3
31	---	---	---	10.4	7.5	8.7	---	---	---	9.8	5.3	7.4
MONTH	12.9	7.2	10.3	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	5.4	7.5	8.5	6.8	7.7	---	---	---	8.0	6.4	7.3
2	10.4	5.6	7.6	9.7	6.5	8.3	---	---	---	6.9	5.0	6.4
3	10.3	5.8	7.8	9.8	5.9	7.9	---	---	---	7.0	5.8	6.5
4	8.0	6.1	6.7	10.1	5.5	7.5	---	---	---	7.2	6.4	6.8
5	7.3	5.5	6.4	9.5	5.2	7.1	---	---	---	7.8	6.4	7.1
6	7.2	5.1	6.4	8.9	5.3	6.9	---	---	---	8.6	6.7	7.9
7	8.2	5.3	6.9	---	---	---	---	---	---	8.5	7.1	8.0
8	9.1	5.7	7.3	---	---	---	10.1	7.5	8.6	8.7	6.7	7.8
9	9.9	5.5	7.5	---	---	---	10.2	7.0	8.4	9.1	6.5	7.9
10	10.6	5.5	7.7	---	---	---	7.6	4.7	6.2	9.7	6.9	8.1
11	11.0	5.4	7.8	---	---	---	7.7	6.4	7.1	10.1	6.8	8.3
12	12.0	5.6	8.2	---	---	---	8.2	6.5	7.3	10.2	6.6	8.0
13	11.8	5.7	8.2	---	---	---	9.1	7.1	8.1	9.8	6.1	7.8
14	10.5	4.7	7.1	---	---	---	9.5	7.1	8.2	9.3	6.2	7.6
15	6.9	4.9	6.0	---	---	---	9.6	5.9	7.8	8.9	5.7	7.3
16	7.8	5.6	6.6	---	---	---	9.4	5.6	7.3	8.8	6.2	7.6
17	9.0	5.5	7.0	---	---	---	9.5	5.2	7.2	9.7	6.7	7.9
18	9.6	5.6	7.2	8.6	6.4	7.4	9.3	4.3	6.9	8.8	6.5	7.6
19	9.0	5.1	6.7	9.4	6.3	7.7	6.7	5.2	6.1	7.9	6.3	7.3
20	9.3	5.6	7.2	7.6	5.4	6.6	7.8	5.6	6.6	8.1	6.3	7.5
21	9.5	5.7	7.4	8.3	5.9	7.3	9.7	5.0	7.4	8.6	6.1	7.7
22	10.1	5.5	7.6	8.9	6.2	7.4	10.3	5.4	8.0	8.7	6.8	7.9
23	10.8	5.1	7.8	9.6	6.5	8.0	10.3	5.5	8.0	9.0	7.9	8.5
24	10.6	5.7	7.7	9.5	6.7	7.7	10.4	5.9	7.9	8.7	7.5	8.2
25	10.8	5.6	7.8	9.6	7.6	8.6	7.7	5.7	6.8	---	---	---
26	11.8	5.1	8.2	9.1	6.6	8.3	---	---	---	---	---	---
27	10.8	6.0	8.2	8.9	7.1	8.2	---	---	---	---	---	---
28	11.6	5.3	7.9	8.5	5.9	7.3	---	---	---	---	---	---
29	8.4	6.3	7.1	7.9	5.9	7.0	9.4	6.1	7.7	---	---	---
30	8.3	6.7	7.5	8.1	5.6	6.9	9.9	6.6	7.8	---	---	---
31	---	---	---	8.2	4.5	6.6	8.6	6.3	7.2	---	---	---
MONTH	12.0	4.7	7.4	---	---	---	---	---	---	---	---	---

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

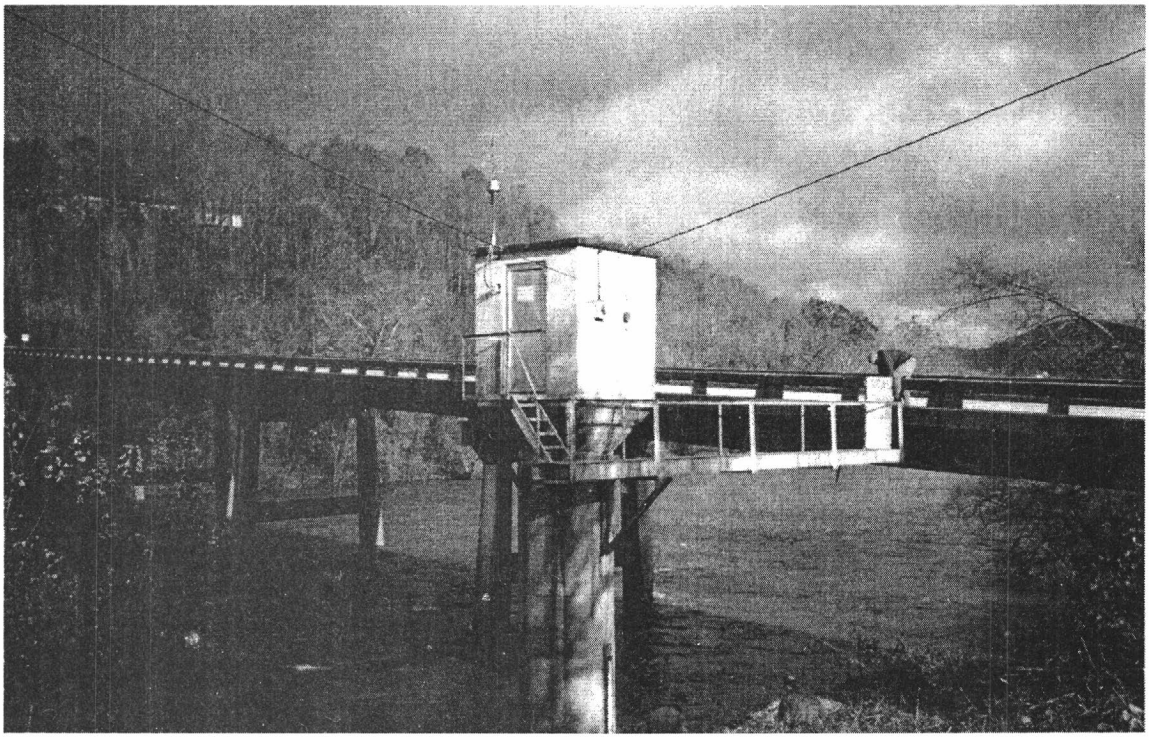
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	100	80	92
2	---	---	---	---	---	---	104	72	88	103	85	92
3	---	---	---	---	---	---	109	71	90	104	77	91
4	---	---	---	103	78	92	110	73	90	93	77	86
5	---	---	---	104	75	92	112	75	90	94	70	86
6	---	---	---	110	80	94	110	72	88	97	82	89
7	123	80	98	113	80	96	113	70	90	98	74	88
8	123	75	100	111	71	95	101	70	87	99	84	91
9	124	82	100	117	75	96	110	72	86	105	72	93
10	102	77	92	---	---	---	92	75	82	---	---	---
11	99	77	91	---	---	---	97	74	84	---	---	---
12	93	74	84	---	---	---	101	74	89	88	63	79
13	100	79	94	---	---	---	---	---	---	91	74	81
14	97	80	90	---	---	---	---	---	---	92	71	82
15	---	---	---	---	---	---	---	---	---	97	73	84
16	---	---	---	---	---	---	---	---	---	101	79	88
17	---	---	---	---	---	---	102	82	95	98	79	88
18	---	---	---	112	85	96	102	81	93	---	---	---
19	---	---	---	111	75	96	98	80	91	---	---	---
20	---	---	---	111	82	94	94	81	88	---	---	---
21	102	72	94	108	80	90	91	75	84	---	---	---
22	100	82	90	103	76	87	89	68	79	---	---	---
23	100	83	90	---	---	---	86	71	78	---	---	---
24	102	81	92	---	---	---	89	72	79	---	---	---
25	104	80	92	---	---	---	92	74	81	---	---	---
26	105	73	91	---	---	---	94	73	83	---	---	---
27	109	73	91	---	---	---	96	76	83	---	---	---
28	---	---	---	---	---	---	92	74	81	---	---	---
29	---	---	---	---	---	---	98	74	85	---	---	---
30	---	---	---	---	---	---	100	78	91	---	---	---
31	---	---	---	---	---	---	100	80	91	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	102	81	97	114	82	93	127	82	98	110	64	87
2	102	90	96	117	79	93	109	78	91	112	64	86
3	109	91	97	119	75	94	95	79	85	81	56	71
4	109	90	97	102	79	88	107	81	91	83	46	69
5	109	92	99	112	76	90	114	76	98	92	52	75
6	112	95	102	128	76	98	120	80	99	116	61	86
7	103	92	99	134	82	104	126	79	100	---	---	---
8	107	93	101	139	84	103	---	---	---	---	---	---
9	119	96	105	137	79	102	---	---	---	138	69	92
10	123	94	111	140	69	101	---	---	---	139	66	90
11	125	97	110	131	73	97	103	72	85	93	67	78
12	103	90	96	106	72	88	104	70	84	99	66	82
13	108	85	94	114	71	92	87	66	77	105	67	83
14	107	85	96	118	68	88	84	71	77	98	65	78
15	119	75	101	128	70	91	84	73	79	105	68	84
16	108	82	97	---	---	---	78	63	72	116	68	88
17	103	86	95	---	---	---	79	57	68	120	64	90
18	105	93	98	---	---	---	73	55	64	130	58	93
19	99	90	95	---	---	---	83	57	71	130	58	91
20	103	89	96	---	---	---	90	64	77	124	65	91
21	107	93	99	---	---	---	96	67	80	119	63	89
22	110	92	101	---	---	---	101	70	85	125	67	93
23	115	93	103	101	74	88	---	---	---	132	63	97
24	121	83	102	106	77	90	---	---	---	117	75	91
25	122	88	102	109	72	92	86	79	84	116	69	90
26	121	84	100	118	77	94	103	82	91	124	72	90
27	121	75	94	108	72	92	112	81	92	118	64	91
28	99	78	87	99	77	87	86	79	83	105	67	85
29	106	79	90	106	81	92	98	80	86	103	64	83
30	---	---	---	113	83	94	105	79	89	115	65	88
31	---	---	---	120	82	95	---	---	---	124	63	90
MONTH	125	75	99	---	---	---	---	---	---	---	---	---

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	129	66	94	111	85	100	---	---	---	104	81	95
2	138	69	97	129	81	107	---	---	---	90	63	81
3	135	72	100	131	76	103	---	---	---	88	73	82
4	100	75	83	136	70	98	---	---	---	91	79	85
5	89	66	78	125	66	92	---	---	---	96	80	88
6	92	61	78	119	68	91	---	---	---	105	80	96
7	104	62	84	---	---	---	---	---	---	105	89	99
8	116	67	90	---	---	---	137	97	115	111	82	98
9	128	67	95	---	---	---	140	90	112	119	81	101
10	140	68	99	---	---	---	101	60	81	126	86	103
11	145	67	100	---	---	---	102	82	93	132	84	106
12	158	69	105	---	---	---	106	83	96	135	83	103
13	158	72	106	---	---	---	116	93	105	129	77	101
14	140	61	92	---	---	---	125	92	106	124	79	99
15	93	63	77	---	---	---	129	76	102	118	72	95
16	104	70	85	---	---	---	127	72	96	114	78	95
17	120	69	91	---	---	---	129	68	96	123	82	98
18	128	71	93	116	84	97	127	56	91	108	73	91
19	117	64	87	126	82	101	89	65	78	95	78	86
20	122	71	93	103	69	87	102	72	85	103	79	94
21	127	72	97	110	77	94	126	64	96	110	77	97
22	134	70	99	120	80	98	138	69	105	109	86	96
23	146	65	102	127	84	104	137	69	105	103	92	98
24	142	72	100	121	82	97	139	76	103	107	94	101
25	145	73	102	119	94	107	103	71	87	---	---	---
26	159	64	108	113	84	105	---	---	---	---	---	---
27	147	75	107	117	88	105	---	---	---	---	---	---
28	156	68	103	108	74	95	---	---	---	---	---	---
29	104	79	89	105	77	91	125	77	100	---	---	---
30	103	85	95	108	74	91	130	84	100	---	---	---
31	---	---	---	107	59	87	112	79	92	---	---	---
MONTH	159	61	94	---	---	---	---	---	---	---	---	---



USGS gaging station at French Broad River at Asheville.

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC

LOCATION.--Lat 35°05'06", long 80°52'58", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge on State Highway 51, 0.5 mi east of intersection of State Highway 51 and U.S. Highway 521 at Pineville.,

DRAINAGE AREA.--49.2 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1966-97. June 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 530 ft above sea level, from topographic map. Radio telemetry at station.

REMARKS.--Records fair. A daily average of 22.6 ft^3/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 10,120 ft^3/s. Minimum discharge for period of record also occurred Nov. 13, 1998. Minimum discharge for current water year affected by unknown regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	37	34	33	95	45	43	42	32	31	353	60
2	32	161	34	32	72	43	57	41	31	29	249	211
3	31	46	33	32	59	41	93	301	31	28	109	272
4	37	36	33	82	56	63	46	51	146	28	400	198
5	40	35	33	57	50	55	40	44	238	30	47	57
6	32	34	34	36	45	41	39	41	55	32	38	37
7	31	33	33	36	43	40	39	39	35	242	37	35
8	31	34	33	36	42	39	330	38	32	37	36	33
9	30	32	32	71	e43	39	91	38	31	32	37	31
10	885	36	82	444	e42	37	48	99	30	30	226	31
11	1230	59	45	71	e50	44	44	62	30	76	43	31
12	85	65	33	46	530	64	42	37	30	743	35	30
13	192	34	42	41	102	38	378	37	30	111	33	30
14	67	33	240	37	712	37	158	58	47	46	31	30
15	46	33	43	35	e100	37	592	33	76	158	33	29
16	36	33	35	34	e60	238	178	34	34	39	32	28
17	34	33	34	34	e53	175	91	34	30	36	31	28
18	35	33	33	47	148	46	103	34	30	34	78	100
19	35	33	34	40	59	41	54	33	42	34	99	296
20	159	33	45	86	49	784	49	32	30	108	32	38
21	125	32	125	39	46	186	46	32	29	43	30	37
22	41	34	61	36	43	71	43	35	28	34	29	218
23	35	34	38	243	43	56	42	33	31	35	29	1370
24	34	33	35	105	43	51	71	41	28	138	29	74
25	34	32	33	281	43	48	209	36	27	41	110	247
26	34	332	32	99	41	46	57	35	27	36	190	108
27	34	62	33	55	189	84	47	32	34	35	35	42
28	37	37	33	51	110	100	134	32	108	33	32	37
29	35	35	34	49	50	46	67	38	212	34	31	35
30	33	34	33	562	---	44	45	33	45	32	31	33
31	32	---	33	175	---	47	---	31	---	35	91	---
TOTAL	3579	1538	1455	3025	3018	2726	3276	1506	1609	2400	2616	3806
MEAN	115	51.3	46.9	97.6	104	87.9	109	48.6	53.6	77.4	84.4	127
MAX	1230	332	240	562	712	784	592	301	238	743	400	1370
MIN	30	32	32	32	41	37	39	31	27	28	29	28
CFSM	2.35	1.04	.95	1.98	2.12	1.79	2.22	.99	1.09	1.57	1.72	2.58
IN.	2.71	1.16	1.10	2.29	2.28	2.06	2.48	1.14	1.22	1.81	1.98	2.88

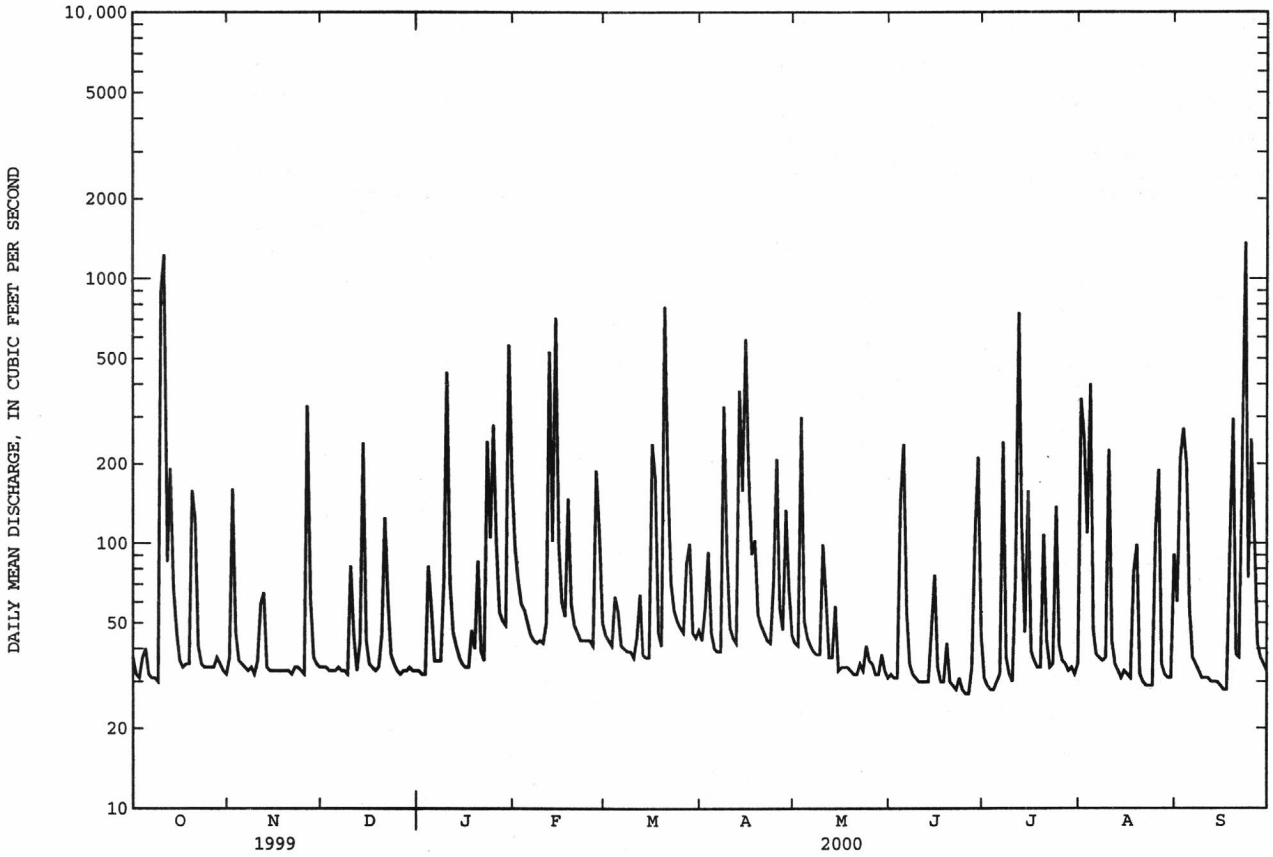
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	81.4	63.6	83.2	165	118	92.2	136	52.7	74.3	151	60.8	82.4
MAX	115	95.0	130	236	167	133	209	69.4	90.6	336	84.4	127
(WY)	2000	1998	1998	1998	1998	1998	1998	1998	1997	1997	2000	2000
MIN	41.8	44.4	46.9	97.6	83.6	55.5	89.3	40.1	53.6	71.5	39.2	57.7
(WY)	1999	1999	2000	2000	1999	1999	1999	1999	2000	1999	1997	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	27355		30554			
ANNUAL MEAN	74.9		83.5		92.3	
HIGHEST ANNUAL MEAN					123	1998
LOWEST ANNUAL MEAN					70.3	1999
HIGHEST DAILY MEAN	1390	Jan 23	1370	Sep 23	6780	Jul 23 1997
LOWEST DAILY MEAN	26	Jun 6	27	Jun 25	24	Nov 7 1998
ANNUAL SEVEN-DAY MINIMUM	28	Jun 2	29	Jun 20	26	Nov 7 1998
INSTANTANEOUS PEAK FLOW			3370	Oct 11	11200*	Jul 23 1997
INSTANTANEOUS PEAK STAGE			13.47	Oct 11	23.04*	Jul 23 1997
INSTANTANEOUS LOW FLOW			20*	Nov 11	17*	Oct 17 1997
ANNUAL RUNOFF (CFSM)	1.52		1.70		1.88	
ANNUAL RUNOFF (INCHES)	20.68		23.10		25.49	
10 PERCENT EXCEEDS	144		180		189	
50 PERCENT EXCEEDS	37		39		41	
90 PERCENT EXCEEDS	30		31		30	

e Estimated.
* See REMARKS.

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC--Continued



02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'14", long 80°46'05", Mecklenburg County, Hydrologic Unit 03050103, near left bank on downstream end of bridge pier at Sardis Road (Secondary Road 3356), 1.7 mi downstream of Irvins Creek, and 7 mi southeast of city hall, Charlotte.

DRAINAGE AREA.--39.6 mi^2.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 553.39 ft above sea level (levels by City of Charlotte). Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow for part of Nov. 15, 1972, was result of upstream construction. Minimum discharge for current water year and period of record affected by regulation of unknown origin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of about 14.0 ft, from floodmarks; discharge, 4,150 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	5.5	6.2	6.7	79	12	9.9	11	5.2	4.8	138	46
2	5.2	107	8.7	6.8	58	11	17	15	4.9	8.1	46	186
3	3.9	15	6.4	7.1	43	10	21	90	4.4	4.5	18	49
4	7.9	7.7	6.7	15	46	41	13	15	e86	3.1	104	25
5	6.7	6.7	6.2	12	31	19	11	12	e205	2.7	12	10
6	3.6	6.4	7.0	7.9	20	12	9.3	11	22	3.1	6.6	5.9
7	3.1	6.1	6.1	7.2	19	11	9.0	10	8.1	32	5.1	4.7
8	2.8	6.0	5.6	6.7	17	11	126	9.6	6.5	4.7	4.5	4.1
9	3.0	5.7	6.0	20	19	10	35	9.1	6.2	57	5.5	3.5
10	489	5.7	26	260	17	10	14	27	5.9	4.5	109	3.3
11	834	60	12	36	17	14	11	17	5.1	88	9.0	3.1
12	40	22	7.2	15	381	22	11	8.5	4.7	480	5.0	2.9
13	79	8.0	13	12	76	9.5	114	9.5	4.5	39	4.2	2.5
14	22	7.3	140	9.9	513	9.0	51	18	4.3	12	3.2	2.3
15	11	6.7	18	8.7	68	9.0	295	8.6	7.1	73	3.2	2.0
16	8.6	6.2	11	8.5	31	58	83	7.3	4.6	9.3	2.6	1.7
17	7.7	5.8	8.9	8.3	22	30	33	7.0	4.0	5.8	2.5	1.6
18	7.4	5.8	8.0	15	75	13	27	7.1	3.3	4.7	2.3	42
19	8.5	5.6	11	11	29	10	16	6.8	3.5	13	7.3	85
20	123	5.9	17	32	19	359	13	6.5	3.5	69	4.2	7.6
21	60	6.4	41	12	16	56	12	7.0	3.5	8.6	4.3	7.7
22	14	7.0	23	9.5	15	24	10	26	3.1	30	3.5	182
23	9.3	6.1	12	130	15	18	9.8	7.1	3.2	12	2.7	883
24	7.5	6.2	9.4	58	15	14	34	11	2.8	50	6.0	28
25	6.5	6.2	8.1	147	17	14	116	8.1	3.0	9.8	17	164
26	5.5	118	7.6	65	14	12	26	9.9	3.0	6.7	3.6	54
27	5.8	26	7.3	27	34	42	15	6.2	8.7	5.2	2.5	12
28	5.6	10	6.8	17	28	33	45	7.5	25	4.2	2.3	7.7
29	5.6	12	7.2	17	16	13	20	9.7	53	3.6	2.1	6.0
30	5.5	6.9	6.8	423	---	12	13	5.8	9.7	3.4	3.0	5.3
31	5.5	---	6.9	154	---	12	---	5.1	---	3.4	16	---
TOTAL	1805.7	509.9	467.1	1565.3	1750	930.5	1220.0	409.4	513.8	1055.2	555.2	1837.9
MEAN	58.2	17.0	15.1	50.5	60.3	30.0	40.7	13.2	17.1	34.0	17.9	61.3
MAX	834	118	140	423	513	359	295	90	205	480	138	883
MIN	2.8	5.5	5.6	6.7	14	9.0	9.0	5.1	2.8	2.7	2.1	1.6
CFSM	1.47	.43	.38	1.28	1.52	.76	1.03	.33	.43	.86	.45	1.55
IN.	1.70	.48	.44	1.47	1.64	.87	1.15	.38	.48	.99	.52	1.73

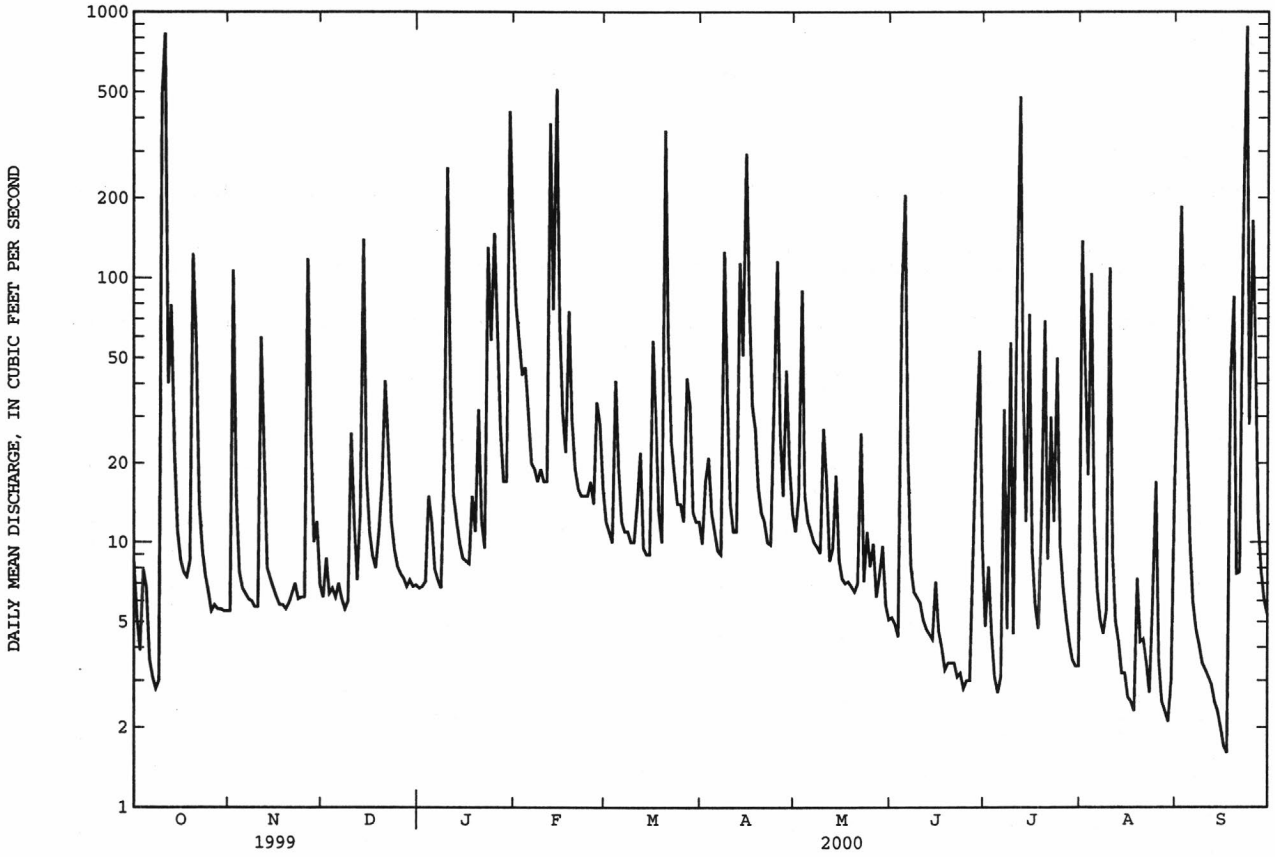
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	34.8	29.8	39.7	69.1	75.7	82.5	49.4	32.2	29.8	29.0	33.2	24.3
MAX	212	109	128	157	169	200	134	173	123	140	178	162
(WY)	1991	1986	1984	1978	1979	1977	1998	1975	1992	1997	1994	1987
MIN	3.16	4.65	7.55	7.46	16.9	13.6	7.45	8.04	3.60	4.04	3.42	1.46
(WY)	1963	1982	1966	1981	1968	1985	1967	1968	1986	1977	1968	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	11339.38		12620.0			
ANNUAL MEAN	31.1		34.5		44.1	
HIGHEST ANNUAL MEAN					72.4	1975
LOWEST ANNUAL MEAN					19.6	1970
HIGHEST DAILY MEAN	1130	Jan 24	883	Sep 23	4490	Aug 27 1995
LOWEST DAILY MEAN	.88	Sep 4	1.6	Sep 17	.26	Jul 19 1986
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 29	2.3	Sep 11	.40	Jul 14 1986
INSTANTANEOUS PEAK FLOW			2590	Sep 23	9040	Aug 27 1995
INSTANTANEOUS PEAK STAGE			10.16	Sep 23	17.79	Aug 27 1995
INSTANTANEOUS LOW FLOW			1.5*	Sep 17	.08*	Sep 5 1999
ANNUAL RUNOFF (CFSM)	.78		.87		1.11	
ANNUAL RUNOFF (INCHES)	10.65		11.86		15.12	
10 PERCENT EXCEEDS	53		74		74	
50 PERCENT EXCEEDS	9.7		9.9		13	
90 PERCENT EXCEEDS	3.5		3.5		3.9	

e Estimated.
* See REMARKS.

02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC--Continued



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.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.00	.00	.00	.00	.00	.00	.00	---	1.15	.08
2	.00	.60	.00	.00	.00	.00	.15	.00	.00	---	.19	1.23
3	.00	.01	.00	.00	.00	.00	.08	.00	.00	---	.06	.33
4	.14	.00	.00	.16	.00	.34	.01	.00	1.17	---	.15	.01
5	.00	.00	.01	.00	.00	.00	.00	.00	1.51	---	.00	.00
6	.00	.00	.03	.00	.00	.00	.00	.00	.00	---	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.00
8	.00	.00	.02	.00	.00	.00	.60	.00	.01	---	.00	.00
9	.00	.00	.00	.27	.00	.00	.00	.00	.00	---	.00	.00
10	---	.00	.25	.79	.00	.00	.00	.48	.00	---	.91	.00
11	---	.48	.00	.00	.08	.18	.00	.01	.00	---	.00	.00
12	---	.01	.00	.00	1.14	.00	.00	.00	.00	---	.00	.00
13	.25	.00	.12	.00	.16	.00	.37	.20	.00	---	.00	.00
14	.00	.00	.57	.00	.78	.00	.58	.00	.02	---	.01	.00
15	.00	.00	.00	.00	.01	.00	.85	.00	.01	---	.00	.00
16	.00	.00	.00	.00	.00	.61	.00	.00	.03	---	.00	.00
17	.00	.00	.00	.00	.15	.00	.21	.00	.00	---	.00	.00
18	.00	.00	.00	---	.19	.00	.01	.00	.03	---	.00	.97
19	.28	.00	.11	---	.01	.00	.00	.00	.00	---	.01	.08
20	.80	.00	.09	---	.00	1.37	.00	.00	.00	---	.00	.00
21	.01	.01	.26	---	.00	.01	.01	.00	.00	---	.00	.12
22	.00	.00	.01	---	.00	.00	.00	.04	.00	---	.00	1.37
23	.00	.00	.00	---	.00	.00	.00	.00	.00	---	.00	2.86
24	.00	.00	.00	---	.00	.00	.50	.12	.00	---	.13	.00
25	.00	.00	.00	---	.00	.00	.30	.03	.00	---	.12	.81
26	.00	.67	.00	---	.00	.00	.01	.02	.00	---	.00	.00
27	.00	.00	.00	---	.32	.47	.00	.00	.11	---	.00	.00
28	.00	.00	.00	---	.01	.01	.19	.40	.18	---	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.04	.17	---	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	---	---	.28	.00
31	.00	---	.00	.00	---	.03	---	.01	---	---	.18	---
TOTAL	---	1.78	1.47	3.30	2.85	3.03	3.87	1.35	---	---	3.19	7.86

USGS gaging station at Long Creek near Rhyne.

02146670 FOUR MILE CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'30", long 80°49'20", Mecklenburg County, Hydrologic Unit 03050103, on left bank on downstream side of bridge at Elm Lane W. (Secondary Road 3649), 0.5 mi south of State Highway 51, 1.25 mi upstream of McAlpine Creek, and 4.5 mi east of U.S. Highway 521 at Pineville.

DRAINAGE AREA.--17.8 mi^2.

PERIOD OF RECORD.-- July 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 528.69 ft above sea level (City of Charlotte bench mark). Radio telemetry at station.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	2.9	2.4	1.8	54	7.8	6.9	5.7	3.2	1.2	52	8.2
2	.89	40	2.5	1.7	37	7.9	8.5	6.3	3.3	1.0	35	169
3	1.1	7.0	2.4	1.9	30	7.5	11	11	3.5	.98	5.6	82
4	2.1	3.3	2.3	3.5	30	26	8.1	4.9	90	.93	4.5	29
5	3.5	2.5	2.3	4.8	20	17	6.6	4.3	314	.94	2.2	8.1
6	2.4	2.3	2.7	2.0	11	9.2	5.9	4.1	56	1.1	1.5	2.8
7	2.2	2.8	2.5	2.8	8.9	7.7	5.3	4.0	11	24	1.5	1.5
8	2.4	3.7	2.3	3.1	11	8.0	43	3.9	5.5	2.1	15	1.1
9	2.3	4.5	2.4	7.1	7.0	8.5	25	3.8	3.4	51	33	.96
10	169	5.1	7.8	128	6.0	8.6	8.2	3.7	2.2	1.5	e90	.92
11	285	24	5.4	23	5.2	10	6.6	5.6	2.6	15	e12	.90
12	17	15	2.8	7.8	276	17	5.4	3.3	2.2	145	1.9	.90
13	15	3.3	3.7	4.8	63	7.2	20	3.2	2.8	22	1.1	.92
14	4.6	2.4	58	3.2	246	6.9	18	5.2	2.8	2.8	.92	1.0
15	1.8	2.5	10	2.8	59	6.7	130	2.9	5.9	1.2	.91	1.2
16	1.3	2.3	5.0	2.7	27	41	40	2.5	3.0	.90	.93	1.2
17	1.2	2.7	3.5	2.5	18	34	30	2.3	2.0	.83	.98	1.1
18	1.1	2.7	2.9	3.8	43	12	43	2.4	1.4	.79	1.1	11
19	1.6	3.3	4.3	3.3	20	8.6	13	2.6	1.3	.77	1.8	41
20	28	4.4	7.1	9.3	13	210	9.0	3.2	1.6	9.2	1.8	3.0
21	31	4.8	15	4.1	11	77	7.4	4.1	1.5	1.7	1.4	7.1
22	3.1	5.0	12	2.8	8.9	28	5.9	7.2	1.0	28	1.4	72
23	1.3	4.7	4.6	74	8.8	17	5.5	4.1	1.0	16	1.2	430
24	1.1	4.8	3.2	45	8.6	12	25	4.9	.94	57	1.2	40
25	1.1	5.1	2.5	80	8.4	10	90	6.7	1.2	2.5	2.0	70
26	1.3	37	2.3	43	8.0	10	24	9.4	1.5	1.0	3.2	43
27	1.7	13	2.3	18	13	15	11	4.3	12	.86	1.2	8.7
28	1.9	4.1	2.1	10	17	23	18	4.0	8.5	.79	2.2	3.2
29	2.0	2.9	2.1	9.1	8.5	9.1	11	8.7	19	.74	1.6	1.6
30	2.3	2.4	3.5	198	---	8.0	6.9	3.8	4.3	.78	2.4	1.3
31	2.4	---	2.1	88	---	7.9	---	3.2	---	.89	11	---
TOTAL	592.69	220.5	184.0	791.9	1077.3	678.6	648.2	145.3	568.64	393.50	292.54	1042.70
MEAN	19.1	7.35	5.94	25.5	37.1	21.9	21.6	4.69	19.0	12.7	9.44	34.8
MAX	285	40	58	198	276	210	130	11	314	145	90	430
MIN	.89	2.3	2.1	1.7	5.2	6.7	5.3	2.3	.94	.74	.91	.90
CFSM	1.07	.41	.33	1.44	2.09	1.23	1.21	.26	1.06	.71	.53	1.95
IN.	1.24	.46	.38	1.65	2.25	1.42	1.35	.30	1.19	.82	.61	2.18

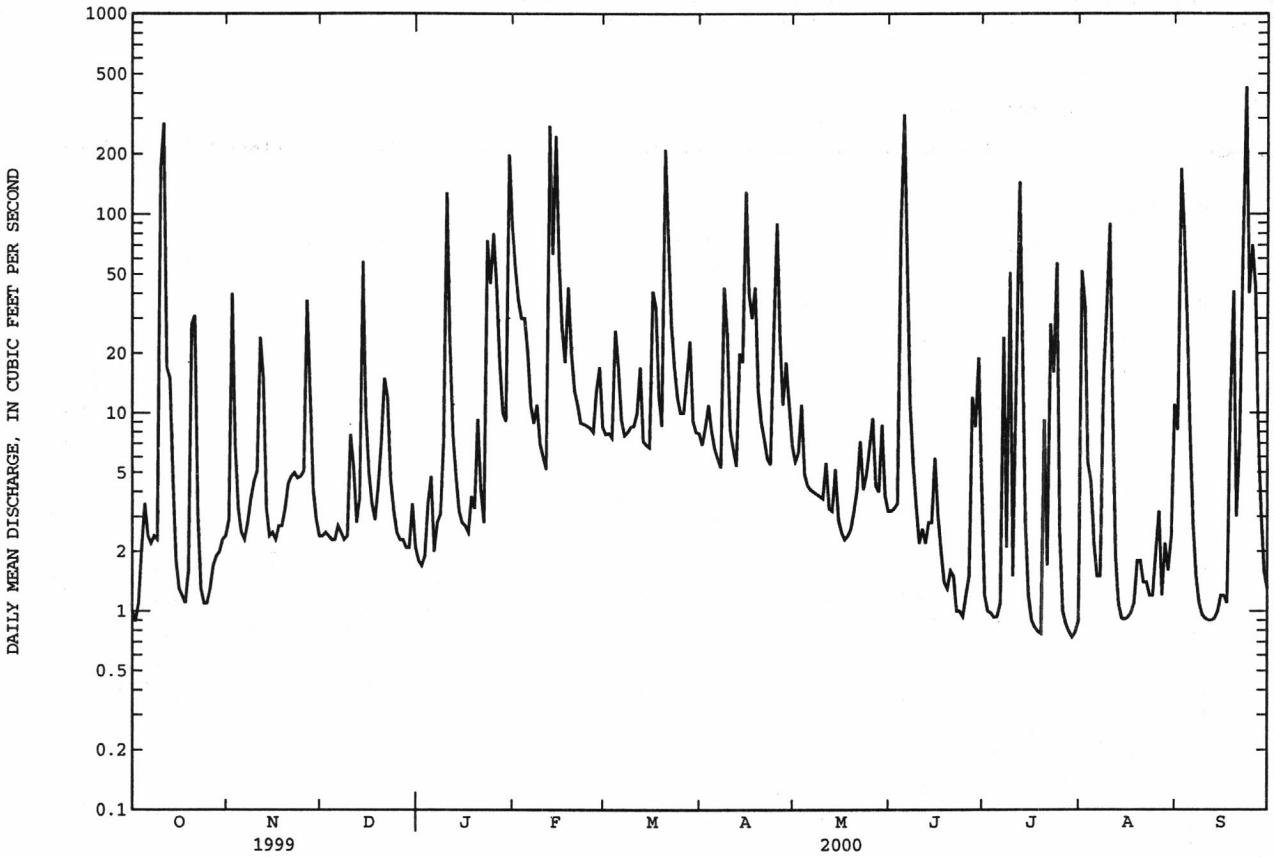
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	16.0	13.1	18.2	43.0	34.2	24.9	31.2	8.95	11.3	19.8	8.59	16.7
MAX	23.6	24.4	31.6	56.2	46.1	41.9	56.3	19.1	19.0	31.6	20.2	34.8
(WY)	1998	1998	1998	1998	1998	1998	1998	1998	2000	1997	1998	2000
MIN	5.35	7.35	5.94	25.5	19.2	10.8	15.8	3.03	4.07	8.63	2.36	4.21
(WY)	1999	2000	2000	2000	1999	1999	1999	1999	1999	1999	1997	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	4494.38		6635.87			
ANNUAL MEAN	12.3		18.1		20.5	
HIGHEST ANNUAL MEAN					31.4	1998
LOWEST ANNUAL MEAN					12.1	1999
HIGHEST DAILY MEAN	472	Jan 24	430	Sep 23	602	Jul 24 1997
LOWEST DAILY MEAN	.51	Sep 4	.74	Jul 29	.51	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	.58	Aug 29	.96	Sep 8	.58	Aug 29 1999
INSTANTANEOUS PEAK FLOW			1060	Sep 23	1630	Jul 27 1998
INSTANTANEOUS PEAK STAGE			10.55	Sep 23	11.58	Jul 27 1998
INSTANTANEOUS LOW FLOW			.66	Jul 30	.47	Sep 4 1999
ANNUAL RUNOFF (CFSM)	.69		1.02		1.15	
ANNUAL RUNOFF (INCHES)	9.39		13.87		15.68	
10 PERCENT EXCEEDS	23		42		43	
50 PERCENT EXCEEDS	4.0		4.6		5.6	
90 PERCENT EXCEEDS	.84		1.1		1.1	

e Estimated.

02146670 FOUR MILE CREEK NEAR PINEVILLE, NC--Continued



02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'27", long 80°49'13", Mecklenburg County, Hydrologic Unit 03050103, on left bank downstream of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi south of Queens College, Charlotte, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--6.95 mi^2.

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 592.91 ft above sea level (levels by city of Charlotte). 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. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 2,650 ft^3/s on basis of computation of peak flow through culvert. No flow occurred periodically from 1962 to 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of 7.5 ft, former site and datum, from floodmarks; discharge, 1,040 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.78	.71	1.1	8.7	2.1	1.7	1.6	.66	.49	32	2.6
2	.47	15	.74	1.2	5.5	2.3	4.6	1.5	.64	.39	24	41
3	.40	1.3	.68	1.2	4.8	1.9	5.7	3.6	.59	.36	9.0	18
4	2.5	.82	.81	6.0	4.1	5.2	2.2	1.5	37	.34	14	2.6
5	1.4	.74	.82	2.0	3.0	2.2	1.6	1.5	44	.32	1.2	1.1
6	.68	1.0	1.1	1.2	2.3	1.6	1.5	1.5	2.2	.91	.73	.68
7	.49	.81	.99	.98	2.5	1.6	1.4	1.4	.93	31	.80	1.0
8	.43	.75	.84	.94	2.0	1.7	33	1.3	.75	1.2	.79	.92
9	.45	.72	.74	6.4	2.0	1.8	3.4	1.3	.70	.55	.86	.81
10	122	.59	7.3	54	1.8	1.7	1.8	13	.63	.38	31	.91
11	129	3.1	1.4	3.2	3.6	4.0	1.6	2.5	.57	70	1.1	.66
12	2.6	1.9	.84	1.7	75	3.0	1.7	1.2	.61	82	.45	.71
13	11	1.0	3.1	1.4	7.4	1.4	21	2.2	.50	3.6	.54	.55
14	2.1	.66	28	1.3	104	1.3	17	3.3	4.0	1.2	.45	.42
15	1.1	.62	1.7	1.1	6.0	1.4	68	1.3	1.4	.74	.36	.41
16	.78	.67	1.2	1.2	3.6	16	9.7	.82	.78	.48	.45	.35
17	.72	.61	.95	1.0	3.0	2.8	5.4	.87	.55	.37	.67	.39
18	.77	.61	.92	2.9	14	1.6	3.9	.85	.54	.37	1.5	23
19	2.2	.69	1.5	1.4	3.7	1.5	2.4	.86	.56	11	.80	8.3
20	25	.65	2.6	6.0	2.6	91	2.1	.78	.45	7.6	.54	.77
21	4.7	1.0	11	1.2	2.3	8.1	2.0	.76	.40	.74	.54	2.4
22	1.3	.86	2.3	1.0	2.0	3.5	1.6	2.2	.93	.64	.45	51
23	.98	.81	1.3	30	2.0	2.6	1.5	.86	.31	4.0	.54	274
24	.73	.67	1.1	8.9	1.9	2.3	11	2.4	.36	11	.45	2.7
25	.95	.78	.95	31	1.8	2.2	22	1.4	.32	1.0	1.1	42
26	.75	46	1.6	6.2	1.9	2.0	3.5	1.5	.32	.82	1.9	4.4
27	.71	2.4	.94	3.0	22	12	2.2	.79	3.1	.52	.42	1.5
28	.68	1.2	1.0	2.2	4.4	3.7	9.8	2.4	13	.45	.32	1.0
29	.70	.88	1.1	3.9	2.3	1.9	2.7	1.8	17	.39	.30	1.1
30	.56	.83	1.1	93	---	1.8	1.9	1.2	1.3	.42	1.4	1.1
31	.70	---	1.2	16	---	2.5	---	.53	---	.67	12	---
TOTAL	317.57	88.45	80.53	292.62	300.2	188.7	247.9	58.72	135.10	233.95	140.66	486.38
MEAN	10.2	2.95	2.60	9.44	10.4	6.09	8.26	1.89	4.50	7.55	4.54	16.2
MAX	129	46	28	93	104	91	68	13	44	82	32	274
MIN	.40	.59	.68	.94	1.8	1.3	1.4	.53	.31	.32	.30	.35
CFSM	1.47	.42	.37	1.36	1.49	.88	1.19	.27	.65	1.09	.65	2.33
IN.	1.70	.47	.43	1.57	1.61	1.01	1.33	.31	.72	1.25	.75	2.60

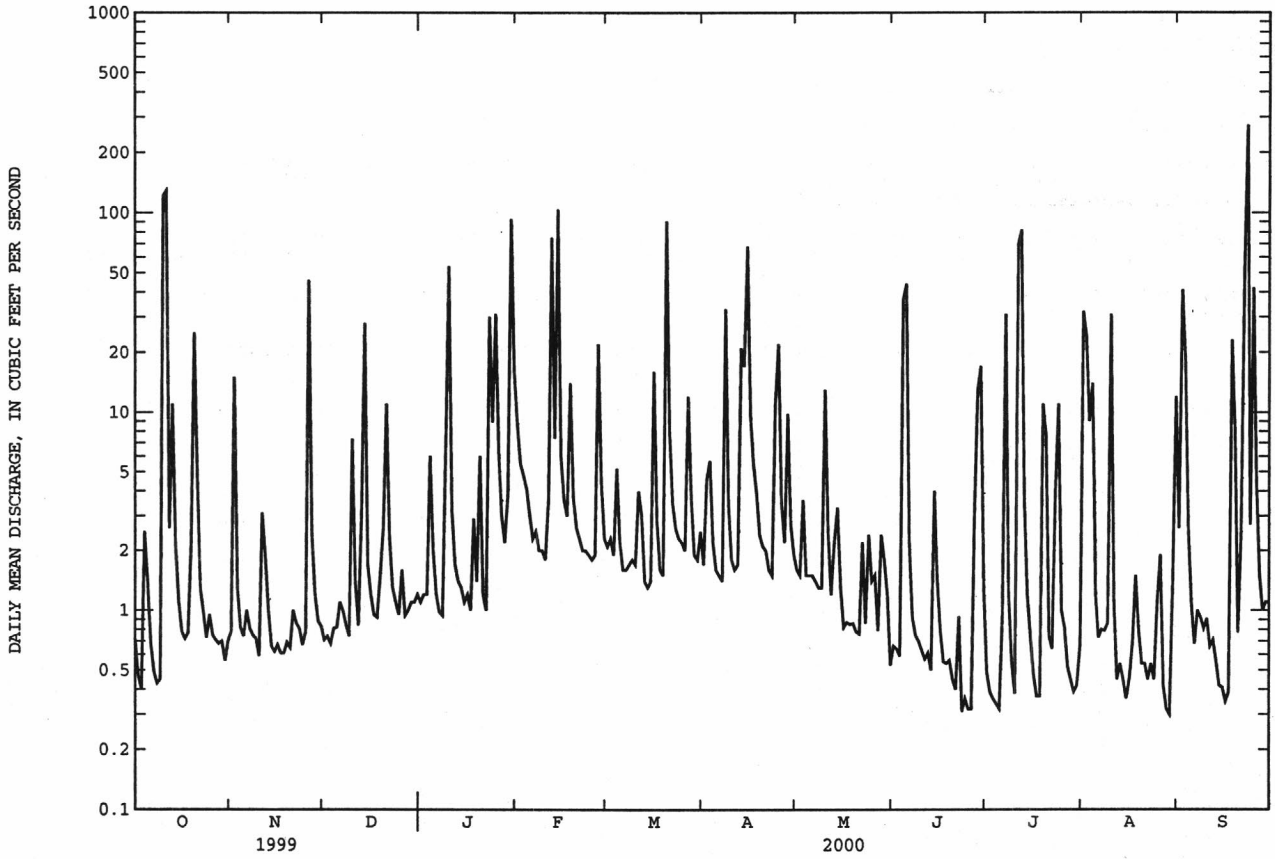
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	6.35	5.81	7.73	12.9	13.6	14.9	7.92	6.37	6.60	6.49	5.86	5.63
MAX	30.4	21.3	24.3	33.5	28.1	38.8	25.1	31.3	27.3	27.7	32.1	23.8
(WY)	1991	1986	1977	1978	1979	1977	1998	1975	1992	1997	1995	1987
MIN	.21	.54	.86	1.02	1.77	1.74	1.13	1.08	.75	.61	.24	.084
(WY)	1964	1970	1966	1981	1968	1985	1981	1962	1966	1963	1968	1970

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	2190.36		2570.78			
ANNUAL MEAN	6.00		7.02		8.34	
HIGHEST ANNUAL MEAN					13.8	1975
LOWEST ANNUAL MEAN					3.19	1970
HIGHEST DAILY MEAN	239	Jan 23	274	Sep 23	868	Aug 27 1995
LOWEST DAILY MEAN	.26	Aug 19	.30	Aug 29	.00	Aug 31 1962
ANNUAL SEVEN-DAY MINIMUM	.31	Aug 13	.44	Jun 20	.01	Sep 19 1968
INSTANTANEOUS PEAK FLOW			1550	Sep 23	3470*	Aug 27 1995
INSTANTANEOUS PEAK STAGE			7.98	Sep 23	11.03	Aug 27 1995
INSTANTANEOUS LOW FLOW			.21	Jun 26	.00*	Aug 31 1962
ANNUAL RUNOFF (CFSM)	.86		1.01		1.20	
ANNUAL RUNOFF (INCHES)	11.72		13.76		16.31	
10 PERCENT EXCEEDS	11		14		15	
50 PERCENT EXCEEDS	1.4		1.4		1.6	
90 PERCENT EXCEEDS	.53		.50		.30	

* See REMARKS.

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC--Continued



02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°03'59", long 80°52'12", Mecklenburg County, Hydrologic Unit, 03050103, on right bank at McAlpine Creek Wastewater Treatment Plant of Charlotte, 150 ft downstream of McMullen Creek, 735 ft upstream from effluent outfall, and 2.1 mi south of Pineville.

DRAINAGE AREA.--92.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 516.38 ft above sea level. Prior to Oct. 1, 1977, present site at 517.38 ft. Radio telemetry at station.

REMARKS.--Records 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 ft^3/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1964, about 12.9 ft. (former datum), Apr. 1, 1973, from information by wastewater treatment plant operator.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	11	16	14	245	32	24	24	8.0	16	151	40
2	18	171	15	13	158	30	28	22	7.5	13	293	310
3	15	54	16	15	103	27	49	94	7.1	12	44	420
4	18	21	13	20	106	55	30	28	194	9.5	126	127
5	26	17	14	32	76	67	25	22	674	8.2	24	39
6	14	15	14	16	52	31	21	19	691	9.0	13	19
7	11	15	14	14	44	26	20	17	41	112	10	14
8	9.9	14	13	13	41	24	130	16	24	25	16	12
9	9.3	14	12	21	40	25	163	16	20	87	e30	10
10	495	14	34	572	36	24	35	18	18	19	359	9.1
11	2410	19	40	211	31	27	27	43	16	17	46	8.8
12	456	102	17	42	844	51	24	16	15	835	21	8.7
13	139	23	19	29	618	26	127	15	14	645	14	7.3
14	65	18	293	23	1310	23	104	27	15	44	10	7.2
15	30	16	52	20	411	22	815	15	20	70	10	7.2
16	21	15	27	21	95	103	320	12	17	21	9.3	6.9
17	18	13	21	19	63	104	86	11	14	14	7.3	5.8
18	16	16	18	26	170	34	118	11	12	11	8.1	39
19	15	17	20	26	81	25	46	10	12	9.6	8.7	264
20	178	14	32	50	51	861	34	9.6	12	88	9.2	26
21	265	13	59	30	41	505	30	9.3	12	48	7.5	23
22	40	15	72	20	37	81	26	24	11	108	7.0	231
23	24	15	27	252	37	51	23	14	11	103	6.3	2430
24	18	14	20	224	33	40	43	13	9.4	165	6.0	455
25	15	14	17	427	32	36	350	18	8.7	28	29	251
26	13	206	16	248	32	32	90	22	9.1	17	68	437
27	13	107	16	79	73	51	40	12	43	13	11	43
28	12	28	15	45	100	111	63	9.5	62	10	8.0	24
29	12	22	14	38	39	37	55	21	125	8.9	7.4	18
30	11	18	14	735	---	27	29	11	50	7.5	6.3	15
31	11	---	15	900	---	27	---	8.7	---	7.2	39	---
TOTAL	4425.2	1051	985	4195	4999	2615	2975	608.1	2172.8	2580.9	1405.1	5308.0
MEAN	143	35.0	31.8	135	172	84.4	99.2	19.6	72.4	83.3	45.3	177
MAX	2410	206	293	900	1310	861	815	94	691	835	359	2430
MIN	9.3	11	12	13	31	22	20	8.7	7.1	7.2	6.0	5.8
CFSM	1.54	.38	.34	1.46	1.87	.91	1.07	.21	.78	.90	.49	1.91
IN.	1.78	.42	.40	1.69	2.01	1.05	1.20	.24	.87	1.04	.57	2.14

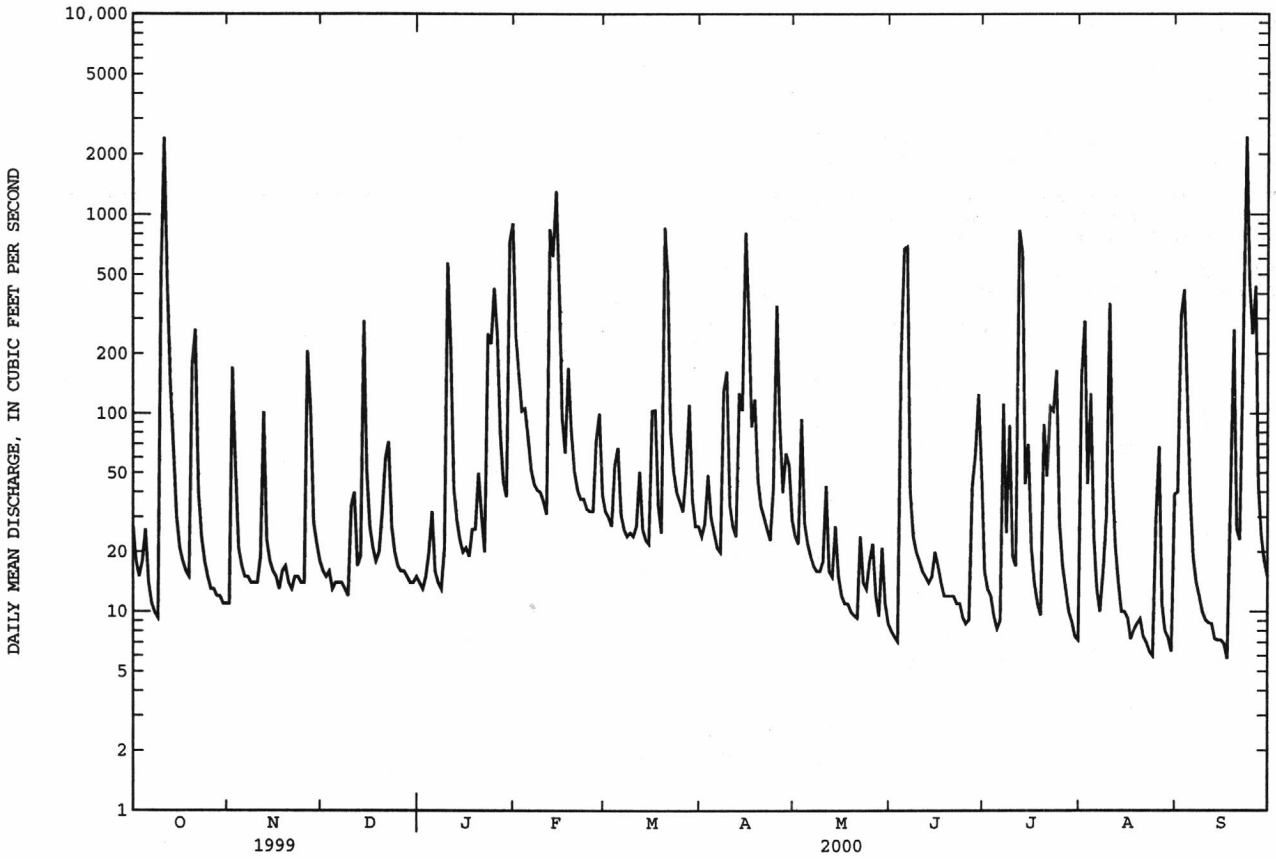
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	105	107	129	237	224	251	129	93.8	75.6	92.1	108	86.1
MAX	540	414	497	550	506	544	304	397	258	400	597	510
(WY)	1991	1986	1984	1978	1984	1980	1998	1975	1992	1997	1994	1987
MIN	6.82	11.5	24.0	18.6	39.0	35.8	21.9	18.2	7.43	7.07	8.66	5.03
(WY)	1979	1982	1981	1981	1978	1981	1981	1981	1986	1977	1977	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	27714.7		33320.1			
ANNUAL MEAN	75.9		91.0		137	
HIGHEST ANNUAL MEAN					235	1984
LOWEST ANNUAL MEAN					70.4	1999
HIGHEST DAILY MEAN	3630	Jan 24	2430	Sep 23	7740	Aug 27 1995
LOWEST DAILY MEAN	2.5	Sep 4	5.8	Sep 17	.46	Sep 30 1983
ANNUAL SEVEN-DAY MINIMUM	3.7	Aug 29	7.4	Sep 11	.76	Sep 28 1983
INSTANTANEOUS PEAK FLOW			3460	Sep 23	12500*	Aug 27 1995
INSTANTANEOUS PEAK STAGE			10.63	Sep 23	19.40*	Aug 27 1995
INSTANTANEOUS LOW FLOW			5.3	Aug 30	.45	Sep 30 1983
ANNUAL RUNOFF (CFSM)	.82		.99		1.48	
ANNUAL RUNOFF (INCHES)	11.16		13.41		20.09	
10 PERCENT EXCEEDS	126		215		272	
50 PERCENT EXCEEDS	23		24		33	
90 PERCENT EXCEEDS	9.2		9.6		9.1	

e Estimated.
* See REMARKS.

02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC--Continued



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.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.95	.03
2	.00	.40	.00	.00	.00	.00	.14	.12	.00	.00	.03	.32
3	.00	.00	.00	.00	.00	.00	.05	.01	.00	.00	.02	.64
4	.19	.00	.00	.13	.00	.35	.01	.00	.01	.02	.11	.31
5	.00	.00	.01	.00	.00	.00	.00	.00	2.23	.00	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.04	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.39	.00	.01
8	.00	.00	.00	.00	.00	.00	.43	.00	.00	.00	.36	.00
9	.00	.00	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00
10	2.65	.00	.26	.88	.00	.04	.00	.00	.00	.00	.65	.00
11	1.12	.01	.00	.00	.00	.17	.00	.00	.00	1.27	.03	.00
12	.01	.00	.00	.00	1.13	.00	.00	.00	.00	.54	.00	.00
13	.18	.00	.12	.00	.20	.00	.21	.12	.00	.02	.00	.00
14	.00	.00	.48	.00	.80	.00	.55	.00	.01	.03	.00	.00
15	.00	.00	.00	.00	.00	.00	.64	.00	.16	.00	.00	.00
16	.00	.00	.00	.00	.00	.37	.01	.00	.01	.00	.00	.00
17	.00	.00	.00	.00	.12	.00	.38	.00	.01	.00	.00	.00
18	.00	.00	.00	---	.14	.00	.00	.00	.03	.00	.13	.78
19	.23	.00	.12	---	.00	.00	.00	.00	.01	.01	.00	.06
20	.87	.00	.06	---	.00	1.65	.00	.00	.00	.01	.00	.00
21	.00	.00	.27	---	.00	.00	.00	.00	.00	.66	.00	.20
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.62	.00	1.43
23	.00	.00	.00	---	.00	.00	.00	.05	.00	.47	.00	1.11
24	.00	.00	.00	---	.00	.00	.74	.06	.00	.02	.10	.00
25	.00	.01	.00	---	.00	.00	.15	.46	.00	.01	.35	.63
26	.00	.71	.00	---	.00	.00	.01	.00	.01	.00	.90	.00
27	.00	.00	.00	---	.63	.33	.00	.00	1.60	.00	.00	.00
28	.00	.00	.00	---	.01	.00	.17	.16	.23	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.03	.00	.34	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.22	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.08	---
TOTAL	5.25	1.13	1.34	2.71	3.03	2.95	3.52	0.98	4.65	4.11	3.93	5.52

USGS gaging station at Mallard Creek below Stony Creek.

0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC

LOCATION.--Lat 35°06'17", long 80°57'14", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of culvert on Secondary Road 1441 (Carowinds Blvd.), and 4.5 mi west of Pineville.

DRAINAGE AREA.--6.73 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 562.23 ft above sea level, from levels. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred Sept. 5, 1999. Minimum discharge for current water year also occurred July 10, 11, Aug. 17, 18, 23, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.65	.78	.67	12	1.9	2.5	1.3	.42	1.3	48	2.2
2	.69	11	.71	.71	7.5	1.9	4.3	1.2	.39	.70	4.8	17
3	.52	3.4	.66	.73	5.5	1.7	6.1	1.1	.40	.55	2.1	12
4	1.8	1.2	.65	4.5	4.7	6.3	3.0	1.1	9.5	.51	7.5	4.6
5	1.1	.74	.66	1.7	3.5	2.6	2.4	1.0	34	.45	4.1	7.1
6	.73	.65	.77	.88	3.0	1.9	2.2	.89	2.8	.68	.88	1.4
7	.56	.60	.74	.83	3.2	1.7	2.2	.88	1.2	.56	.63	1.1
8	.54	.63	.60	.79	2.6	1.6	23	.88	.83	.40	.57	.65
9	.77	.60	.53	4.0	2.2	1.7	5.1	.97	.65	.37	.75	.68
10	192	.57	3.9	47	2.1	1.6	3.2	.91	.54	.30	12	.50
11	223	.61	1.3	6.1	2.0	4.5	2.7	.82	.47	15	1.3	.46
12	7.6	.62	.79	3.1	97	3.2	3.1	.85	.46	9.0	.79	.64
13	7.1	.58	1.7	2.3	13	1.6	11	1.0	.49	1.8	.49	.58
14	3.4	.57	12	1.8	142	1.4	25	1.6	.55	1.2	.40	.66
15	1.7	.57	1.7	1.5	13	1.4	82	.73	2.3	.72	.35	.37
16	1.2	.60	1.0	1.5	6.6	11	16	.71	2.3	.52	.30	.44
17	1.7	.55	.85	1.4	4.3	4.4	9.9	.67	.57	.41	.28	.44
18	2.0	.62	.80	2.6	11	2.1	6.3	.60	.80	.79	.27	12
19	2.1	.58	1.0	1.9	5.3	1.7	3.8	.60	.47	.46	.33	9.5
20	14	.60	2.3	5.2	3.5	142	3.0	.63	.74	.69	.30	1.7
21	5.1	.57	9.6	2.0	2.9	19	2.6	.68	.71	5.0	.35	2.1
22	1.5	.55	3.8	1.3	2.5	7.2	2.1	.63	.50	.90	.39	14
23	.96	.55	1.8	23	2.3	4.9	1.9	.59	1.0	1.0	.28	69
24	.77	.57	1.3	12	2.4	3.9	5.2	1.6	.39	5.6	.70	3.0
25	.69	.44	1.0	34	2.1	3.3	8.7	.92	.31	1.1	3.8	18
26	.71	23	.95	10	1.9	2.9	2.8	1.2	.34	.69	63	4.6
27	.66	2.8	.94	5.9	7.0	7.5	2.1	.74	4.4	.53	2.7	1.5
28	.63	1.2	.85	4.4	3.7	4.7	4.0	1.4	16	.43	1.1	1.0
29	.58	.92	.83	4.7	2.3	3.0	2.2	1.7	14	.36	.58	.78
30	.56	.75	.74	73	---	2.7	1.6	.52	2.7	.32	.56	.70
31	.50	---	.73	21	---	3.4	---	.42	---	.29	3.1	---
TOTAL	476.27	57.29	55.98	280.51	371.1	258.7	250.0	28.84	100.23	52.63	162.70	188.70
MEAN	15.4	1.91	1.81	9.05	12.8	8.35	8.33	.93	3.34	1.70	5.25	6.29
MAX	223	23	12	73	142	142	82	1.7	34	15	63	69
MIN	.50	.44	.53	.67	1.9	1.4	1.6	.42	.31	.29	.27	.37
CFSM	2.28	.28	.27	1.34	1.90	1.24	1.24	.14	.50	.25	.78	.93
IN.	2.63	.32	.31	1.55	2.05	1.43	1.38	.16	.55	.29	.90	1.04

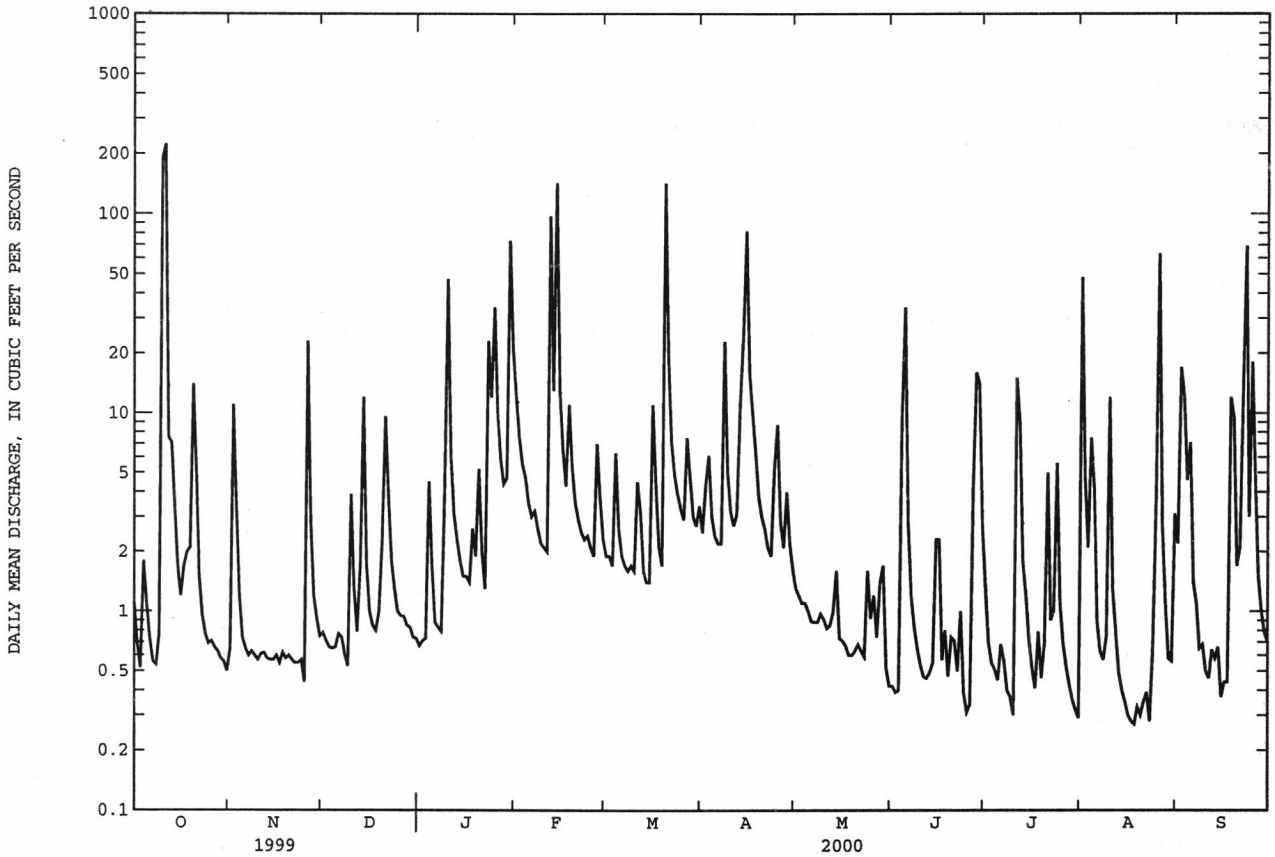
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN	8.48	1.88	3.23	11.6	10.2	5.70	6.67	2.20	3.30	10.6	3.04	5.04
MAX	15.4	1.91	4.66	14.2	12.8	8.35	8.33	3.10	4.25	28.6	5.25	6.29
(WY)	2000	2000	1999	1999	2000	2000	2000	1998	1999	1998	2000	2000
MIN	1.60	1.84	1.81	9.05	7.41	3.06	5.01	.93	2.30	1.63	1.63	3.66
(WY)	1999	1999	2000	2000	1999	1999	1999	2000	1998	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000	
ANNUAL TOTAL	1899.18		2282.95			
ANNUAL MEAN	5.20		6.24		5.26	
HIGHEST ANNUAL MEAN					6.24	2000
LOWEST ANNUAL MEAN					4.27	1999
HIGHEST DAILY MEAN	223	Oct 11	223	Oct 11	515	Jul 27 1998
LOWEST DAILY MEAN	.18	Sep 4	.27	Aug 18	.18	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	.25	Aug 29	.31	Aug 15	.25	Aug 29 1999
INSTANTANEOUS PEAK FLOW			692	Oct 11	2450	Jul 27 1998
INSTANTANEOUS PEAK STAGE			7.15	Oct 11	11.44	Jul 27 1998
INSTANTANEOUS LOW FLOW			.24*	Jun 26	.16*	Sep 4 1999
ANNUAL RUNOFF (CFSM)	.77		.93		.78	
ANNUAL RUNOFF (INCHES)	10.50		12.62		10.61	
10 PERCENT EXCEEDS	8.1		11		9.2	
50 PERCENT EXCEEDS	1.3		1.3		1.2	
90 PERCENT EXCEEDS	.42		.49		.43	

* See REMARKS.

0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC--Continued



02146900 TWELVE MILE CREEK NEAR WAXHAW, NC

LOCATION.--Lat 34°57'08", 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 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-60. October 1960 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft above sea level. 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.--Records poor. No flow also occurred Oct. 6, 1968, Oct. 7-15, 1970, and Oct. 1-22, 1983. Minimum discharge for current water year also occurred Oct. 4, June 26, 27.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	4.4	3.9	2.8	233	18	15	12	3.5	3.9	12	11
2	3.3	5.7	3.6	2.7	175	17	15	11	3.1	2.4	20	14
3	1.4	8.6	5.0	4.5	142	16	20	20	2.8	2.0	18	44
4	1.4	6.7	4.0	e6.0	214	21	18	13	3.0	2.0	15	60
5	1.6	5.6	4.0	e20	163	47	15	11	94	1.8	14	e14
6	3.0	6.2	4.1	e10	91	24	14	9.5	98	1.7	12	e7.6
7	2.2	5.5	4.3	7.4	64	20	13	8.6	14	7.0	e9.6	5.2
8	1.6	4.3	4.3	6.8	52	18	15	8.0	8.9	3.8	e7.4	4.3
9	1.3	4.2	4.3	6.7	42	17	31	7.5	6.0	e8.4	14	3.7
10	20	4.0	4.6	275	37	16	17	7.0	4.8	e7.2	15	3.7
11	291	4.0	5.9	91	33	16	14	6.6	4.0	e6.0	20	4.0
12	31	4.8	6.1	15	422	19	13	6.3	3.2	e60	16	4.3
13	9.8	e4.4	5.4	8.5	394	17	14	6.0	2.8	15	12	5.0
14	8.1	3.6	11	5.9	890	15	16	5.6	2.8	8.7	7.7	5.0
15	5.6	3.0	8.4	4.6	206	15	67	5.1	3.5	5.8	6.0	4.8
16	3.9	3.6	4.1	3.8	86	19	52	4.8	4.3	4.1	5.0	e4.2
17	4.0	3.2	e3.8	3.7	51	32	61	4.8	4.2	3.9	4.5	e4.0
18	4.0	2.9	e4.6	3.6	65	19	518	4.7	3.4	4.3	4.2	e3.8
19	4.4	2.8	4.4	3.8	61	16	58	4.7	3.1	4.9	4.1	6.0
20	6.3	e4.0	4.6	4.5	39	500	25	4.3	3.4	5.3	5.0	7.7
21	20	e3.0	5.7	5.5	29	208	18	4.0	3.7	e5.0	6.0	7.3
22	12	e2.5	13	4.6	25	66	15	7.0	3.2	e10	6.6	38
23	7.2	e2.4	10	124	23	36	14	6.1	2.0	e8.0	6.4	773
24	4.7	e3.0	6.5	198	22	28	13	5.1	1.7	e20	6.0	64
25	4.1	3.8	4.8	154	21	23	16	5.4	1.3	12	6.1	20
26	4.6	6.0	4.1	148	20	20	20	9.0	1.3	7.4	13	93
27	3.9	9.6	3.6	65	19	19	15	6.4	1.2	7.1	7.7	14
28	3.7	3.7	3.6	27	20	20	14	5.3	2.2	7.3	6.1	7.2
29	3.8	3.0	3.4	18	19	18	16	5.1	5.8	7.7	6.4	5.5
30	3.9	4.0	3.2	323	---	16	13	4.6	6.9	12	7.2	4.0
31	4.4	---	3.1	534	---	16	---	3.9	---	11	9.5	---
TOTAL	483.6	132.5	161.4	2087.4	3658	1352	1165	222.4	302.1	265.7	302.5	1242.3
MEAN	15.6	4.42	5.21	67.3	126	43.6	38.8	7.17	10.1	8.57	9.76	41.4
MAX	291	9.6	13	534	890	500	518	20	98	60	20	773
MIN	1.3	2.4	3.1	2.7	19	15	13	3.9	1.2	1.7	4.1	3.7
CFSM	.20	.06	.07	.88	1.65	.57	.51	.09	.13	.11	.13	.54
IN.	.24	.06	.08	1.02	1.78	.66	.57	.11	.15	.13	.15	.60

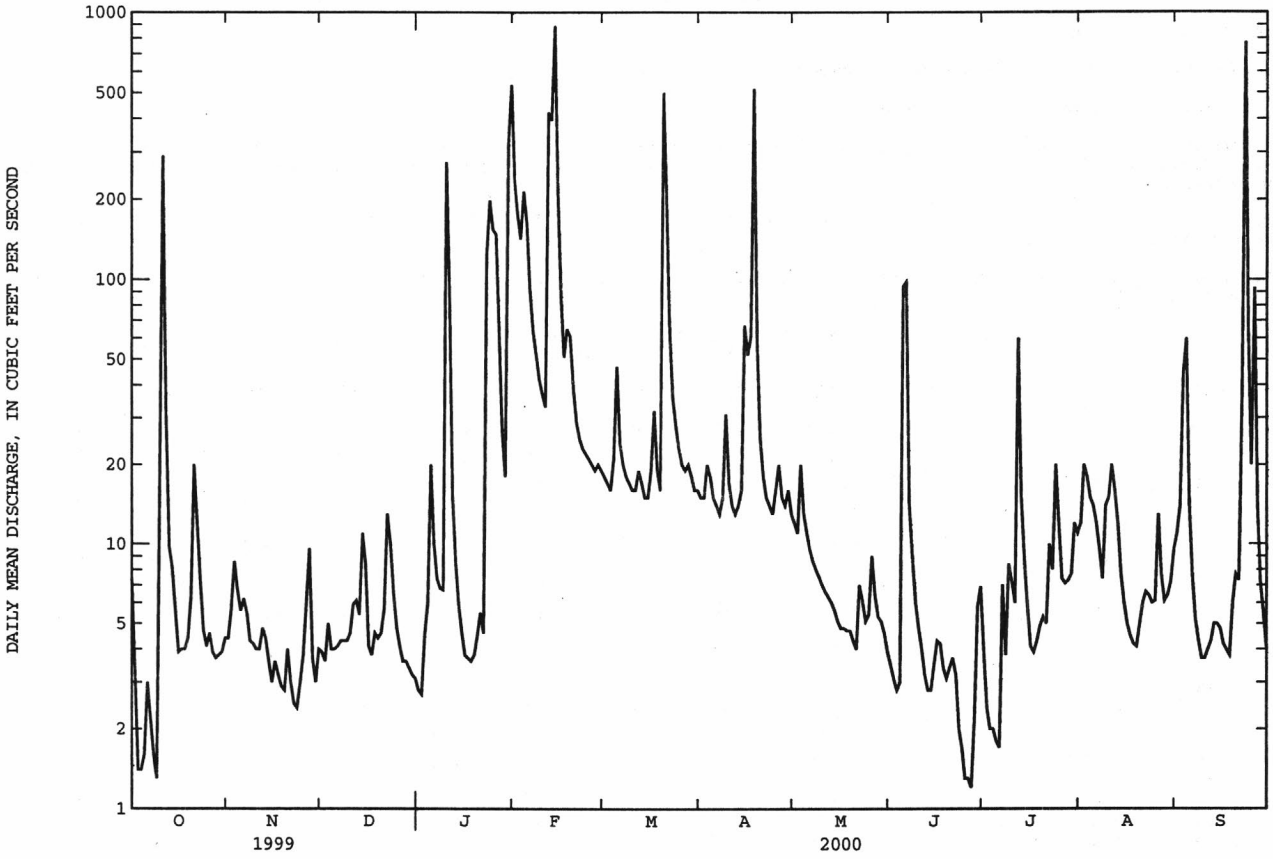
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

MEAN	51.9	36.7	64.8	136	162	163	93.3	44.2	32.8	36.1	42.9	30.6
MAX	372	161	261	331	351	425	289	178	111	238	318	161
(WY)	1991	1986	1984	1978	1990	1980	1973	1989	1992	1978	1995	1987
MIN	.39	2.18	5.21	11.5	22.7	25.8	14.2	6.19	1.26	2.33	.93	.15
(WY)	1984	1962	2000	1981	1986	1985	1981	1981	1986	1986	1983	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	10210.75		11374.9			
ANNUAL MEAN	28.0		31.1		74.2	
HIGHEST ANNUAL MEAN					150	1991
LOWEST ANNUAL MEAN					25.4	1970
HIGHEST DAILY MEAN	2040	Jan 24	890	Feb 14	6700	Aug 27 1995
LOWEST DAILY MEAN	.16	Sep 3	1.2	Jun 27	.00	Oct 6 1968
ANNUAL SEVEN-DAY MINIMUM	.30	Aug 29	1.8	Oct 3	.00	Oct 7 1970
INSTANTANEOUS PEAK FLOW			1570	Sep 23	9970	Aug 27 1995
INSTANTANEOUS PEAK STAGE			11.19	Sep 23	21.94	Aug 27 1995
INSTANTANEOUS LOW FLOW			1.0*	Oct 3	.00*	Oct 5 1968
ANNUAL RUNOFF (CFSM)	.37		.41		.97	
ANNUAL RUNOFF (INCHES)	4.97		5.53		13.17	
10 PERCENT EXCEEDS	37		60		134	
50 PERCENT EXCEEDS	6.3		7.1		19	
90 PERCENT EXCEEDS	.72		3.2		2.6	

e Estimated.
* See REMARKS.

02146900 TWELVE MILE CREEK NEAR WAXHAW, NC--Continued



02149000 COVE CREEK NEAR LAKE LURE, NC

LOCATION.--Lat 35°25'24", long 82°06'42", Rutherford County, Hydrologic Unit 03050105, on left bank 40 ft upstream from bridge on U.S. Highways 64 and 74, 1.0 mi upstream from mouth, and 5.0 mi east of town of Lake Lure.

DRAINAGE AREA.--79.0 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-50. October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

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

GAGE.--Water-stage recorder. Datum of gage is 815.4 ft above sea level. Prior to Dec. 20, 1954, nonrecording gage at same site and datum. Satellite telemetry at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 23 ft, from records of North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	44	62	48	62	56	79	100	53	41	66	32
2	36	346	59	47	61	55	89	94	50	37	61	67
3	34	130	56	47	60	53	210	88	49	35	84	52
4	60	85	54	56	61	54	194	112	50	34	90	68
5	66	71	52	56	58	54	146	96	54	32	90	61
6	44	63	56	48	56	51	124	86	55	34	58	46
7	41	59	51	47	55	50	111	81	47	37	51	40
8	37	55	49	46	56	50	104	77	45	32	50	38
9	37	52	49	55	56	49	95	73	44	31	44	37
10	55	51	54	214	56	49	89	70	43	29	49	35
11	90	50	52	137	56	101	85	67	41	27	41	33
12	59	51	48	95	122	105	83	65	40	29	37	32
13	50	48	55	82	126	77	85	93	39	57	34	31
14	47	47	193	71	263	68	87	133	44	39	34	31
15	42	46	108	65	160	64	146	80	51	35	32	30
16	39	44	83	63	117	86	314	72	44	30	32	28
17	38	42	72	61	98	125	171	69	43	28	31	28
18	37	42	65	69	90	94	139	67	42	27	31	29
19	36	41	62	65	83	83	120	64	45	27	32	41
20	69	42	64	74	75	1020	109	63	44	30	32	32
21	80	43	63	67	71	327	102	72	48	25	45	44
22	55	42	66	64	68	190	95	89	45	25	37	43
23	48	42	59	66	66	148	91	66	41	238	33	96
24	44	41	57	62	64	128	89	72	37	75	32	53
25	42	72	54	61	62	116	102	68	35	71	31	42
26	42	383	53	57	60	107	99	66	41	56	31	41
27	41	144	53	e55	63	101	88	61	38	60	30	36
28	40	97	51	e55	64	96	142	59	44	45	31	35
29	39	78	50	55	58	89	133	58	68	43	28	34
30	39	68	49	64	---	86	111	56	51	59	27	34
31	39	---	49	67	---	83	---	54	---	109	30	---
TOTAL	1466	2419	1948	2119	2347	3815	3632	2371	1371	1477	1334	1249
MEAN	47.3	80.6	62.8	68.4	80.9	123	121	76.5	45.7	47.6	43.0	41.6
MAX	90	383	193	214	263	1020	314	133	68	238	90	96
MIN	34	41	48	46	55	49	79	54	35	25	27	28
CFSM	.60	1.02	.80	.87	1.02	1.56	1.53	.97	.58	.60	.54	.53
IN.	.69	1.14	.92	1.00	1.11	1.80	1.71	1.12	.65	.70	.63	.59

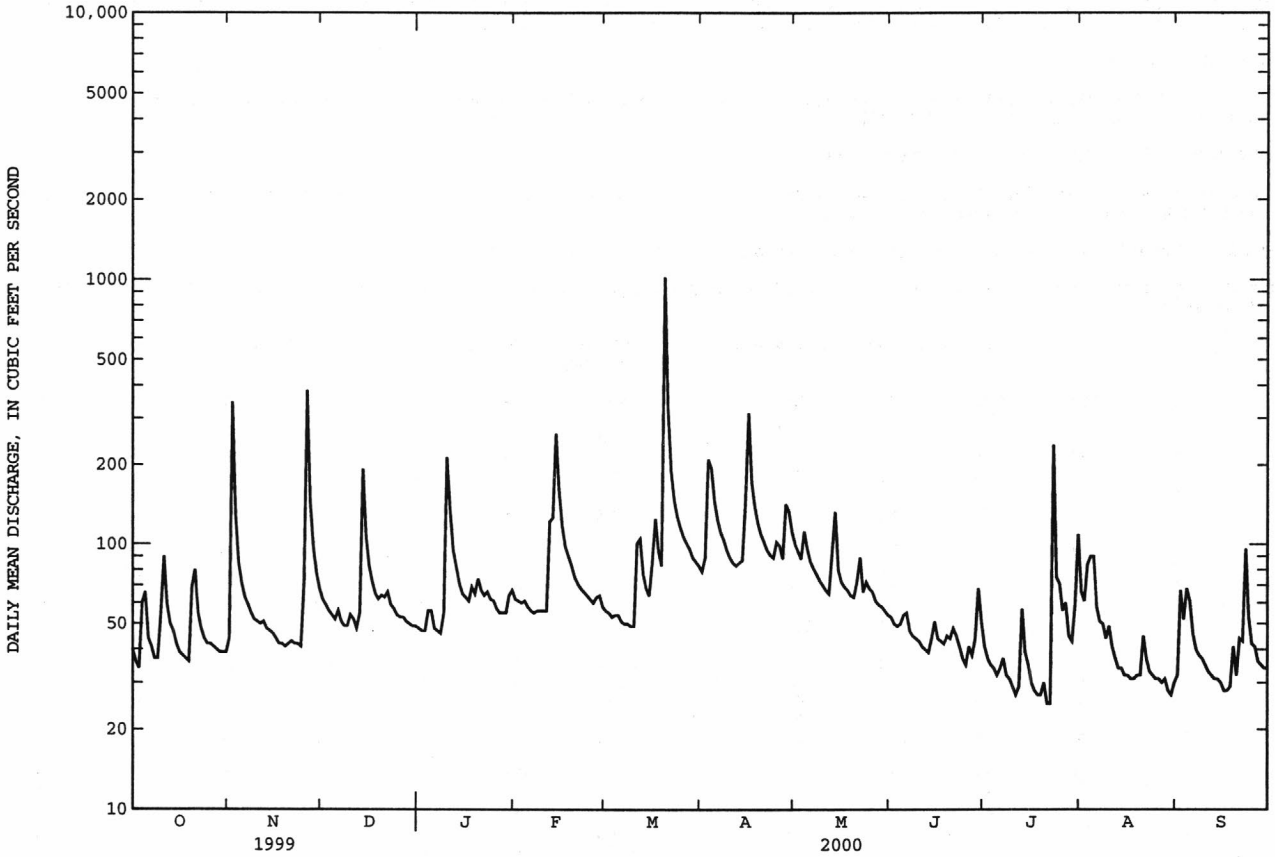
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	114	117	128	145	171	197	183	149	130	98.0	107	95.6
MAX	381	334	278	314	335	479	391	384	309	189	377	333
(WY)	1965	1993	1984	1993	1998	1979	1980	1975	1992	1974	1974	1979
MIN	24.5	33.1	38.2	39.5	79.8	68.6	69.6	59.2	37.3	33.1	30.4	24.5
(WY)	1955	1955	1989	1956	1988	1988	1989	1988	1988	1988	1999	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	24946		25548			
ANNUAL MEAN	68.3		69.8		137	
HIGHEST ANNUAL MEAN					231	1993
LOWEST ANNUAL MEAN					65.3	1956
HIGHEST DAILY MEAN	383	Nov 26	1020	Mar 20	3190	Oct 4 1964
LOWEST DAILY MEAN	17	Sep 17	25	Jul 21	17	Sep 17 1999
ANNUAL SEVEN-DAY MINIMUM	18	Sep 14	27	Jul 16	18	Sep 14 1999
INSTANTANEOUS PEAK FLOW			2380	Mar 20	7050	Jun 5 1957
INSTANTANEOUS PEAK STAGE			9.35	Mar 20	18.53	Jun 5 1957
INSTANTANEOUS LOW FLOW			23	Jul 22	16	Sep 17 1999
ANNUAL RUNOFF (CFSM)	.87		.88		1.73	
ANNUAL RUNOFF (INCHES)	11.75		12.03		23.51	
10 PERCENT EXCEEDS	109		109		227	
50 PERCENT EXCEEDS	59		56		105	
90 PERCENT EXCEEDS	26		33		52	

e Estimated.

02149000 COVE CREEK NEAR LAKE LURE, NC--Continued



02150495 SECOND BROAD RIVER NEAR LOGAN, NC

LOCATION.--Lat 35°24'15", long 81°52'20", Rutherford County, Hydrologic Unit 03050105, on right bank 30 ft downstream of bridge on Secondary Road 1538, 2.2 mi southeast of Logan, and 2.7 mi upstream from Catheys Creek.

DRAINAGE AREA.--86.2 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 840 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges and those above 600 ft^3/s, which are fair. Maximum discharge for period of record from rating curve extended above 600 ft^3/s by logarithmic plotting. Minimum discharge for period of record and current water year also occurred Aug. 30, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	39	59	49	65	54	67	93	44	33	35	21
2	36	98	56	50	64	53	73	85	43	30	30	49
3	34	77	55	50	62	52	237	79	42	29	38	41
4	46	55	53	54	62	51	199	76	44	28	37	47
5	57	50	52	57	60	51	143	72	47	28	42	41
6	42	48	58	50	58	50	117	68	47	28	32	32
7	40	46	52	49	57	49	104	64	41	27	30	28
8	39	45	50	47	57	49	95	61	39	26	28	28
9	38	44	49	54	56	49	86	59	39	25	31	27
10	49	43	53	211	55	49	79	57	38	25	28	26
11	84	43	52	159	55	68	75	59	37	23	26	24
12	59	48	49	109	84	79	73	59	36	25	23	24
13	50	44	51	89	108	64	74	65	35	54	22	23
14	47	43	131	77	187	58	75	83	36	36	22	23
15	43	41	102	69	148	55	116	55	36	34	21	22
16	41	40	80	67	109	86	277	51	35	29	21	20
17	40	39	69	63	93	144	167	50	35	26	20	20
18	40	39	64	67	84	100	131	50	39	25	20	21
19	38	38	61	64	78	83	109	49	43	25	21	29
20	45	39	61	73	71	1030	98	48	37	26	20	25
21	58	39	62	68	66	385	91	59	36	23	24	30
22	46	39	65	64	63	209	83	77	34	24	24	34
23	42	38	59	65	61	150	78	55	33	29	21	70
24	40	39	57	63	59	119	78	58	31	62	20	46
25	40	46	55	62	57	105	93	63	29	39	20	34
26	40	214	53	59	56	96	93	59	31	34	19	32
27	39	126	53	e56	58	88	82	52	30	31	19	29
28	39	88	52	e56	61	83	109	50	30	29	19	28
29	38	73	51	57	55	76	127	50	50	27	18	27
30	38	65	50	64	---	74	106	47	40	26	17	26
31	39	---	50	70	---	70	---	45	---	46	18	---
TOTAL	1365	1726	1864	2192	2149	3729	3335	1898	1137	952	766	927
MEAN	44.0	57.5	60.1	70.7	74.1	120	111	61.2	37.9	30.7	24.7	30.9
MAX	84	214	131	211	187	1030	277	93	50	62	42	70
MIN	34	38	49	47	55	49	67	45	29	23	17	20
CFSM	.51	.67	.70	.82	.86	1.40	1.29	.71	.44	.36	.29	.36
IN.	.59	.74	.80	.95	.93	1.61	1.44	.82	.49	.41	.33	.40

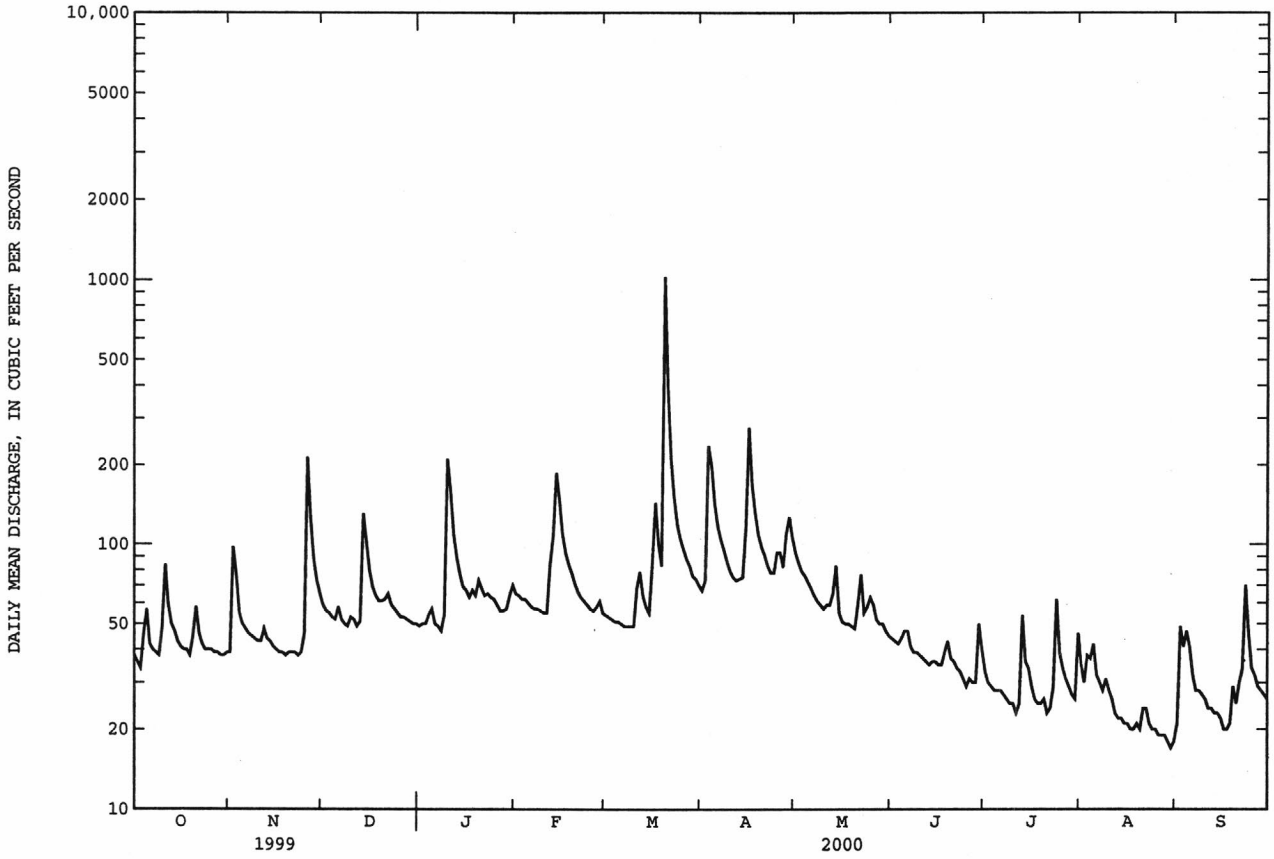
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	58.3	65.2	69.4	92.9	101	107	108	69.7	47.7	41.3	28.4	30.0
MAX	72.6	72.9	78.7	115	128	120	111	78.2	57.5	51.9	32.1	30.9
(WY)	1999	1999	1999	1999	1999	2000	2000	1999	1999	1999	1999	2000
MIN	44.0	57.5	60.1	70.7	74.1	92.9	105	61.2	37.9	30.7	24.7	29.0
(WY)	2000	2000	2000	2000	2000	1999	1999	2000	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	25772		22040			
ANNUAL MEAN	70.6		60.2		68.0	
HIGHEST ANNUAL MEAN					75.9	1999
LOWEST ANNUAL MEAN					60.2	2000
HIGHEST DAILY MEAN	288	Feb 20	1030	Mar 20	1030	Mar 20 2000
LOWEST DAILY MEAN	21	Aug 19	17	Aug 30	17	Aug 30 2000
ANNUAL SEVEN-DAY MINIMUM	22	Sep 15	19	Aug 25	19	Aug 25 2000
INSTANTANEOUS PEAK FLOW			2400*	Mar 20	2400*	Mar 20 2000
INSTANTANEOUS PEAK STAGE			11.05	Mar 20	11.05	Mar 20 2000
INSTANTANEOUS LOW FLOW			17*	Aug 29	17*	Aug 29 2000
ANNUAL RUNOFF (CFSM)	.82		.70		.79	
ANNUAL RUNOFF (INCHES)	11.12		9.51		10.72	
10 PERCENT EXCEEDS	113		94		108	
50 PERCENT EXCEEDS	59		50		59	
90 PERCENT EXCEEDS	29		25		27	

e Estimated.
* See REMARKS.

02150495 SECOND BROAD RIVER NEAR LOGAN, NC--Continued



02151500 BROAD RIVER NEAR BOILING SPRINGS, NC

LOCATION.--Lat 35°12'39", long 81°41'52", Cleveland County, Hydrologic Unit 03050105, on right bank 0.5 mi upstream from Sandy Run Creek, 3 mi downstream of Second Broad River, and 3.5 mi southwest of Boiling Springs.

DRAINAGE AREA.--875 mi^2.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-88: 1986(m).

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above sea level (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 good. Considerable diurnal fluctuation and some regulation caused by power plants upstream from station. Maximum discharge and gage height for period of record from former site, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	383	942	746	931	786	1110	883	674	440	754	296
2	569	993	688	492	907	780	663	1350	564	403	594	743
3	359	1810	728	461	935	772	1170	1170	597	389	461	677
4	360	1150	835	573	879	877	2690	997	553	347	589	487
5	675	857	537	684	900	549	1600	1470	581	392	637	692
6	721	953	511	700	561	503	1650	1340	694	404	534	529
7	532	578	680	736	538	749	1390	652	650	320	435	396
8	428	441	662	857	554	646	1370	594	573	378	419	396
9	569	598	709	517	694	676	1080	858	512	354	511	432
10	538	619	837	1410	692	691	734	808	565	297	398	398
11	1260	573	827	2470	771	793	958	872	515	321	445	356
12	1010	576	488	1480	773	677	1200	962	406	319	430	346
13	853	673	461	1230	998	616	1210	1080	496	574	385	305
14	560	442	1040	1020	1480	864	1300	744	471	494	338	334
15	676	411	1540	1210	1990	795	1640	725	449	520	401	304
16	647	551	1410	658	1390	1030	2430	918	502	379	321	333
17	419	455	1320	570	1370	2260	2340	786	510	346	319	333
18	384	521	996	883	1530	1610	2020	899	491	327	321	284
19	495	567	578	954	1230	817	1510	784	490	285	363	380
20	494	590	539	858	731	6520	1430	649	590	312	356	379
21	662	424	964	977	638	7160	1420	510	498	311	305	363
22	617	402	956	961	895	3130	1400	516	533	379	356	454
23	638	492	962	617	842	2170	767	827	489	352	312	793
24	412	570	858	582	880	1760	710	901	527	1130	313	820
25	380	580	1000	1020	942	1650	1420	870	395	593	312	509
26	376	1260	546	852	1010	934	1500	929	415	622	353	497
27	521	2340	504	857	558	894	1520	916	428	388	321	387
28	502	1470	490	900	573	1370	1370	484	372	396	310	373
29	501	999	802	800	1020	1320	1940	449	452	508	316	364
30	581	952	758	572	---	1200	1190	499	683	405	281	447
31	401	---	726	693	---	1010	---	710	---	1180	296	---
TOTAL	17700	23230	24894	27340	27212	45609	42732	26152	15675	13865	12486	13407
MEAN	571	774	803	882	938	1471	1424	844	522	447	403	447
MAX	1260	2340	1540	2470	1990	7160	2690	1470	694	1180	754	820
MIN	359	383	461	461	538	503	663	449	372	285	281	284
CFSM	.65	.88	.92	1.01	1.07	1.68	1.63	.96	.60	.51	.46	.51
IN.	.75	.99	1.06	1.16	1.16	1.94	1.82	1.11	.67	.59	.53	.57

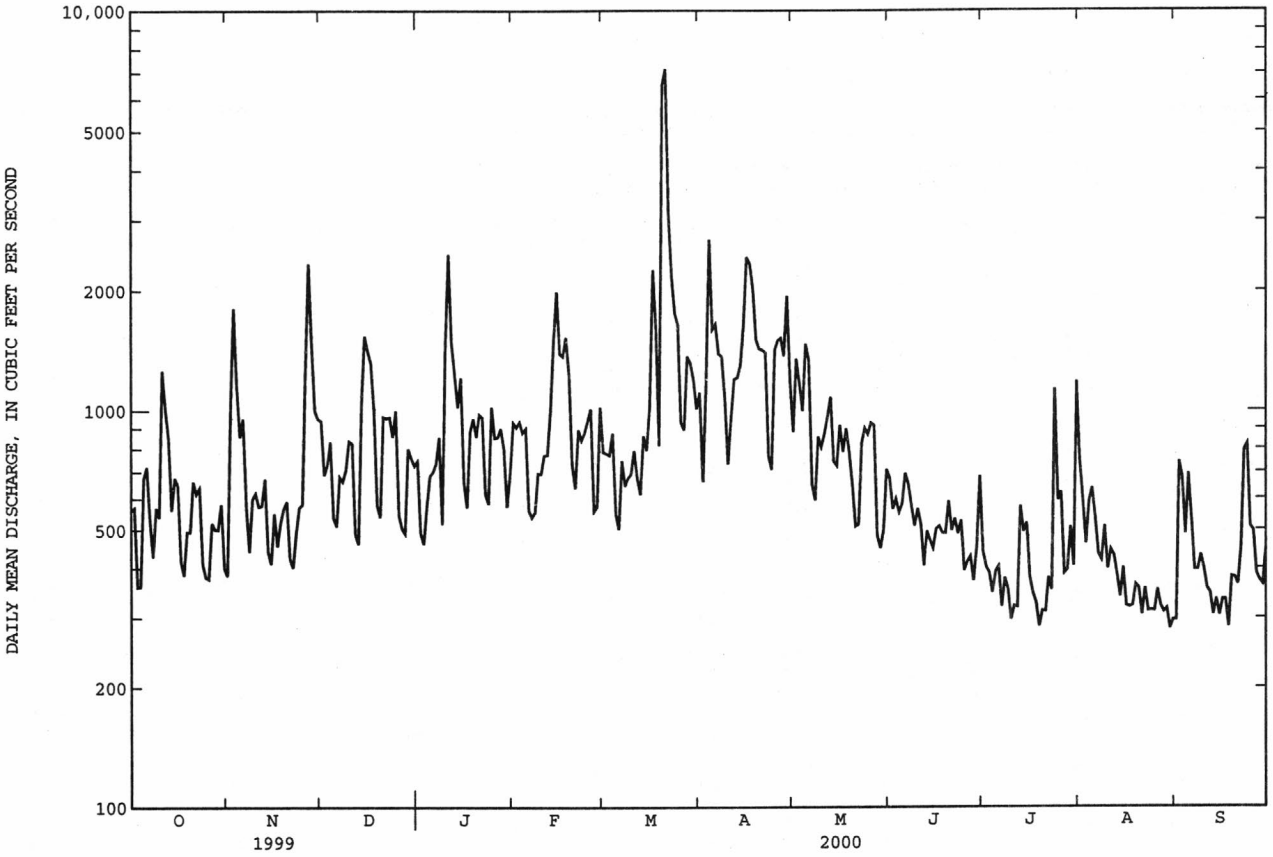
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	1278	1231	1449	1774	1922	2108	1936	1549	1312	1100	1222	1062
MAX	5499	3275	2875	4750	4304	4868	4525	3441	2812	2505	6893	3100
(WY)	1965	1993	1984	1937	1960	1975	1936	1973	1973	1949	1928	1945
MIN	237	407	449	422	820	783	821	682	420	351	295	288
(WY)	1955	1955	1956	1956	1941	1988	1986	1988	1988	1986	1956	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL TOTAL	306457		290302			
ANNUAL MEAN	840		793		1495	
HIGHEST ANNUAL MEAN					2328	1973
LOWEST ANNUAL MEAN					768	1988
HIGHEST DAILY MEAN	3080	Feb 2	7160	Mar 21	63900	Aug 16 1928
LOWEST DAILY MEAN	219	Sep 14	281	Aug 30	105	Oct 10 1954
ANNUAL SEVEN-DAY MINIMUM	266	Sep 14	310	Aug 26	185	Aug 27 1956
INSTANTANEOUS PEAK FLOW			13000	Mar 20	73300*	Aug 16 1928
INSTANTANEOUS PEAK STAGE			8.77	Mar 20	24.30*	Aug 16 1928
INSTANTANEOUS LOW FLOW			228	Sep 16	40	Oct 17 1954
ANNUAL RUNOFF (CFSM)	.96		.91		1.71	
ANNUAL RUNOFF (INCHES)	13.03		12.34		23.22	
10 PERCENT EXCEEDS	1380		1390		2500	
50 PERCENT EXCEEDS	732		638		1170	
90 PERCENT EXCEEDS	329		356		570	

* See REMARKS.

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC--Continued



02152100 FIRST BROAD RIVER NEAR CASAR, NC

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, Hydrologic Unit 03050105, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mi upstream from No Business Creek, and 4.0 mi southwest of Casar.

DRAINAGE AREA.--60.5 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-56, March 1959 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 890 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Aug. 16-19, 20, 21, 27, 29-31.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident. A discharge of 14.5 ft^3/s was measured on Sept. 21, 1955.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	37	29	41	35	51	62	26	20	21	18
2	26	84	36	29	41	34	53	58	25	19	19	66
3	24	59	36	29	40	32	205	59	25	19	21	35
4	34	40	35	34	40	31	153	54	25	18	22	25
5	49	35	35	41	39	30	101	49	28	18	20	26
6	31	33	44	33	38	29	81	45	30	18	19	21
7	27	31	41	31	37	29	74	42	26	18	18	19
8	26	31	36	30	37	28	74	40	25	17	17	19
9	26	30	35	35	36	27	72	39	24	17	17	19
10	37	29	37	226	36	26	67	37	24	16	22	18
11	95	31	39	133	36	28	64	36	23	15	19	17
12	52	41	35	68	52	32	62	33	21	16	16	17
13	38	34	35	57	70	30	61	33	21	26	15	16
14	35	32	95	50	132	28	66	45	22	21	15	16
15	31	31	71	46	102	26	123	31	21	19	14	16
16	29	29	55	44	68	67	277	28	21	17	14	14
17	28	29	45	43	58	159	134	28	21	16	13	14
18	28	28	41	42	54	68	104	29	22	16	13	15
19	27	28	38	43	51	50	79	28	29	15	13	23
20	28	29	38	45	46	740	71	27	23	16	14	19
21	38	30	40	47	43	254	66	30	22	14	15	20
22	33	29	45	45	42	111	62	33	21	17	16	24
23	29	29	39	46	40	74	58	28	21	23	15	53
24	27	31	37	44	39	62	55	31	19	33	14	31
25	26	37	35	43	38	61	64	55	19	23	16	23
26	26	146	34	41	36	60	62	37	19	21	15	21
27	26	81	34	39	36	57	60	31	39	19	14	19
28	26	55	32	e37	39	54	73	29	21	19	14	19
29	26	45	31	36	37	51	78	29	26	21	14	18
30	26	40	30	37	---	51	64	28	24	21	13	18
31	26	---	30	42	---	51	---	27	---	28	14	---
TOTAL	1009	1233	1251	1545	1404	2415	2614	1161	713	596	502	679
MEAN	32.5	41.1	40.4	49.8	48.4	77.9	87.1	37.5	23.8	19.2	16.2	22.6
MAX	95	146	95	226	132	740	277	62	39	33	22	66
MIN	24	26	30	29	36	26	51	27	19	14	13	14
CFSM	.54	.68	.67	.82	.80	1.29	1.44	.62	.39	.32	.27	.37
IN.	.62	.76	.77	.95	.86	1.48	1.61	.71	.44	.37	.31	.42

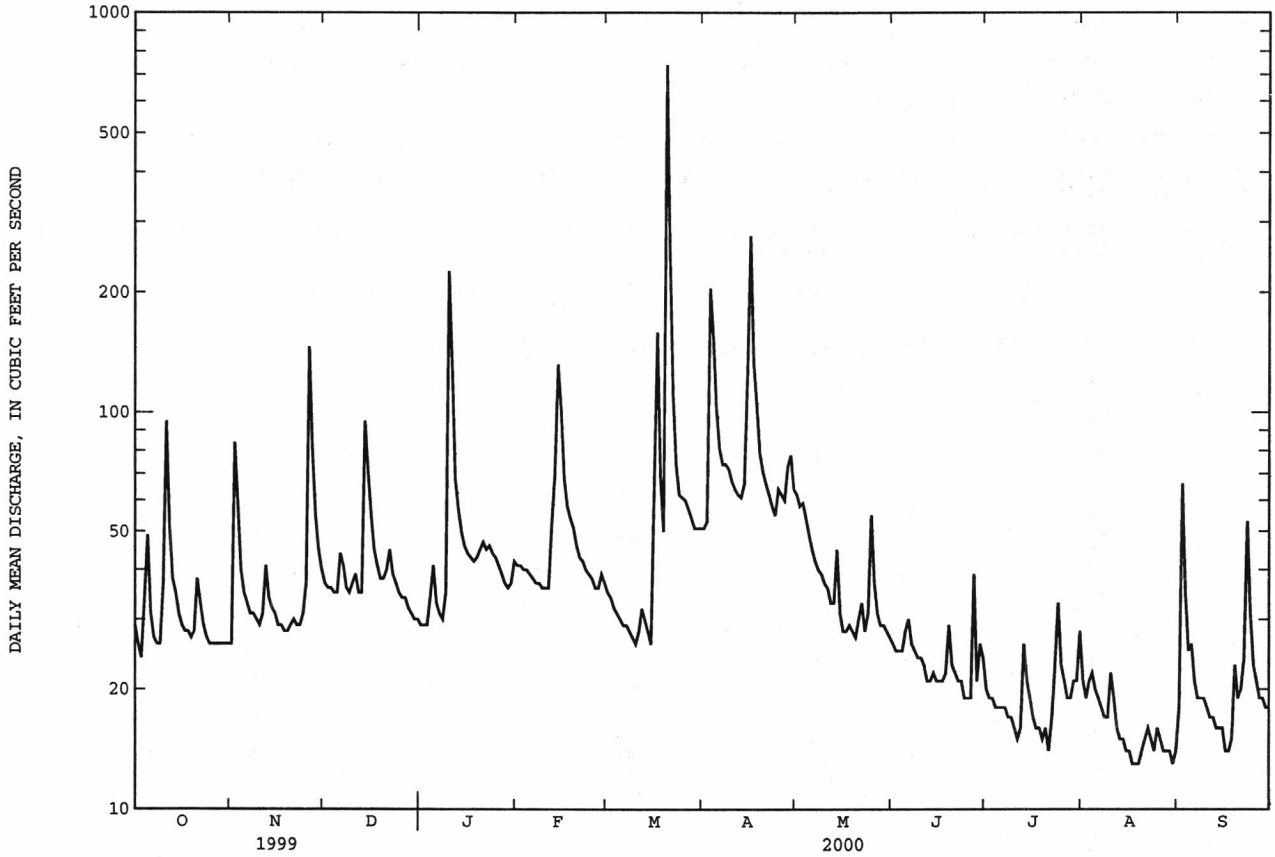
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2000, BY WATER YEAR (WY)

MEAN	75.3	68.9	84.2	107	124	140	126	98.0	79.1	62.1	67.4	54.6
MAX	318	191	185	273	286	386	291	254	168	138	262	132
(WY)	1965	1978	1962	1995	1960	1975	1983	1975	1975	1984	1970	1959
MIN	24.7	27.3	26.6	44.4	48.4	44.6	48.1	33.9	23.4	19.2	16.2	22.6
(WY)	1964	1982	1989	1989	2000	1988	1967	1988	1988	1988	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1959 - 2000	
ANNUAL TOTAL	18172		15122			
ANNUAL MEAN	49.8		41.3		90.5	
HIGHEST ANNUAL MEAN					139	1960
LOWEST ANNUAL MEAN					41.3	2000
HIGHEST DAILY MEAN	545	Apr 30	740	Mar 20	3130	Mar 14 1975
LOWEST DAILY MEAN	16	Sep 26	13	Aug 17	11	Aug 27 1988
ANNUAL SEVEN-DAY MINIMUM	17	Sep 15	14	Aug 14	14	Aug 14 2000
INSTANTANEOUS PEAK FLOW			1860	Mar 20	7790	Jan 14 1995
INSTANTANEOUS PEAK STAGE			6.35	Mar 20	16.70	Oct 17 1975
INSTANTANEOUS LOW FLOW			13*	Jul 19	10	Aug 28 1988
ANNUAL RUNOFF (CFSM)	.82		.68		1.50	
ANNUAL RUNOFF (INCHES)	11.17		9.30		20.32	
10 PERCENT EXCEEDS	76		66		147	
50 PERCENT EXCEEDS	39		31		64	
90 PERCENT EXCEEDS	21		17		34	

e Estimated.
* See REMARKS.

02152100 FIRST BROAD RIVER NEAR CASAR, NC--Continued



351954080493445 CRN02

LOCATION.--Lat 35°19'54", long 80°49'34", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.58
2	.00	.34	.00	.00	.01	.00	.25	.94	.00	.00	.02	.36
3	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	2.02	.62
4	.20	.00	.00	.35	.00	.11	.00	.00	.09	.00	.64	.32
5	.00	.00	.00	.00	.00	.00	.00	.00	.33	.03	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.01
7	.00	.00	.01	.00	.00	.00	.00	.00	.00	1.68	.00	.00
8	.00	.00	.00	.00	.00	.00	.46	.00	.00	.00	.03	.00
9	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00	.00	.00
10	2.28	.00	.25	.71	.00	.00	.00	.00	.00	.00	.27	.00
11	1.28	.77	.00	.00	.00	.21	.00	.00	.00	1.10	.00	.00
12	.00	.01	.00	.00	.85	.00	.00	.00	.00	1.02	.00	.00
13	.14	.00	.10	.00	.18	.00	.52	.21	.00	.06	.00	.00
14	.03	.00	.40	.00	.57	.00	.51	.00	.00	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.61	.00	.24	.00	.00	.00
16	.00	.00	.00	.00	.00	1.84	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.28	.00	.01	.00	.00	.00	1.09	1.02
19	.02	.00	.04	---	.00	.00	.00	.00	.00	.27	.00	.15
20	.57	.00	.08	---	.00	1.04	.00	.00	.00	.01	.00	.00
21	.00	.00	.54	---	.00	.00	.00	.18	.00	.00	.00	.06
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	1.24
23	.00	.00	.00	---	.00	.01	.00	.04	.00	.34	.00	1.08
24	.00	.00	.00	---	.00	.00	.38	.05	.00	.05	.38	.04
25	.00	.00	.00	---	.00	.00	.12	.00	.00	.30	.01	.13
26	.00	.96	.00	---	.00	.00	.00	.05	.09	.00	.00	.00
27	.00	.00	.00	---	.33	.31	.01	.00	.02	.07	.00	.00
28	.00	.00	.00	---	.00	.00	.31	.00	.29	.04	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.06	.08	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.15	.00
31	.00	---	.00	.00	---	.00	---	.01	---	.03	.03	---
TOTAL	4.52	2.08	1.42	2.17	2.22	3.52	3.66	1.54	1.14	5.06	5.06	5.61

351132080562345 CRN04

LOCATION.--Lat 35°11'32", long 80°56'23", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.64	.76
2	.00	.42	.00	.00	.00	.00	.22	.01	.00	.00	.05	.45
3	.00	.00	.00	.00	.00	.00	.19	.00	.02	.00	.57	.64
4	.21	.00	.00	.22	.00	.23	.00	.00	.03	.00	.09	.11
5	.00	.00	.00	.00	.00	.00	.00	.00	.31	.00	.00	.00
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.11	.00	.00
7	.00	.00	.00	.00	.02	.00	.00	.00	.00	.25	.00	.00
8	.00	.00	.00	.00	.00	.00	.80	.00	.00	.00	.08	.00
9	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00	.00
10	2.94	.00	.30	.87	.00	.00	.00	.09	.00	.00	.29	.00
11	1.38	.00	.00	.01	.15	.20	.00	.00	.00	1.11	.00	.00
12	.03	.00	.00	.00	.85	.00	.00	.00	.00	.48	.00	.00
13	.25	.00	.08	.00	.20	.00	.84	.06	.00	.00	.00	.00
14	.01	.00	.41	.00	.75	.00	.68	.00	.17	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.83	.00	.01	.00	.00	.00
16	.00	.00	.00	.00	.00	.74	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.09	.00	.16	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.15	.00	.01	.01	.00	.00	.18	.47
19	.00	.00	.00	---	.01	.00	.00	.00	.01	.21	.00	.07
20	.64	.00	.08	---	.00	1.28	.00	.00	.00	.00	.01	.00
21	.00	.00	.47	---	.00	.00	.00	.00	.00	.07	.00	.04
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	1.47
23	.00	.00	.00	---	.00	.00	.00	.01	.00	.33	.00	.70
24	.00	.00	.00	---	.00	.00	.41	.12	.00	.02	.45	.00
25	.00	.01	.00	---	.00	.00	.13	.00	.00	.08	.51	.32
26	.00	1.14	.00	---	.00	.00	.10	.00	---	.00	.01	.00
27	.00	.00	.00	---	.25	.28	.01	.00	---	.00	.00	.00
28	.00	.00	.00	---	.00	.01	.23	.06	---	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.00	---	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.12	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.00	.02	---
TOTAL	5.46	1.57	1.37	2.88	2.48	2.75	4.61	0.36	---	2.66	3.02	5.03

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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.45	.09
2	.00	.41	.00	.00	.00	.00	.26	.00	.00	.00	.04	.15
3	.00	.00	.00	.00	.00	.00	.23	.00	.06	.00	.31	.54
4	.19	.00	.00	.33	.00	.07	.02	.00	.17	.00	.16	.96
5	.00	.00	.02	.00	.00	.00	.00	.00	.37	.00	.00	.00
6	.00	.00	.05	.00	.00	.00	.00	.00	.00	.07	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52	.00	.00
8	.00	.00	.00	.04	.00	.00	.58	.00	.00	.00	.09	.00
9	.00	.00	.00	.41	.00	.00	.00	.00	.00	.00	.00	.00
10	2.54	.00	.28	.65	.00	.00	.00	.00	.00	.00	.23	.00
11	1.32	.14	.00	.00	.01	.15	.00	.01	.00	.20	.00	.00
12	.00	.00	.00	.00	.85	.00	.00	.00	.00	.97	.00	.00
13	.32	.00	.14	.00	.27	.00	.59	.29	.00	.01	.00	.00
14	.00	.00	.35	.00	.60	.00	.59	.00	.00	.41	.00	.00
15	.00	.00	.00	.00	.00	.00	.55	.00	.38	.00	.00	.00
16	.00	.00	.00	.00	.00	2.10	.00	.00	.01	.00	.00	.00
17	.00	.00	.00	.00	.16	.00	.24	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.16	.00	.00	.00	.16	.00	1.12	.93
19	.06	.00	.07	---	.00	.00	.00	.00	.00	.18	.00	.11
20	.54	.00	.04	---	.00	1.22	.00	.00	.00	.00	.00	.00
21	.00	.00	.55	---	.00	.00	.00	.06	.00	.00	.00	.11
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.02	.00	1.17
23	.00	.01	.00	---	.00	.00	.00	.06	.00	.32	.00	.78
24	.00	.00	.00	---	.00	.00	.43	.11	.00	.04	.15	.01
25	.00	.04	.00	---	.00	.00	.11	.05	.00	.18	.03	.13
26	.00	.81	.00	---	.00	.00	.00	.00	.09	.00	.00	.00
27	.00	.00	.00	---	.25	.37	.00	.00	.07	.25	.00	.00
28	.00	.00	.00	---	.00	.00	.39	.04	.85	.53	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.02	.12	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.14	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.00	.21	---
TOTAL	4.97	1.42	1.50	2.56	2.30	3.94	3.99	0.64	2.28	3.70	2.93	4.98

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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92	.06
2	.00	.67	.00	.00	.00	.00	.15	.10	.00	.00	.15	.91
3	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.01	1.09
4	.22	.00	.00	.13	.04	.47	.01	.00	.00	.00	.12	.02
5	.00	.00	.00	.00	.00	.00	.00	.00	2.65	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00	.00
8	.00	.00	.00	.00	.00	.00	.67	.00	.00	.00	.71	.00
9	.00	.00	.00	.32	.00	.00	.00	.00	.00	.63	.00	.00
10	2.25	.00	.30	.93	.00	.01	.00	.00	.00	.00	.72	.00
11	.93	.05	.00	.00	.00	.23	.00	.00	.00	1.55	.25	.00
12	.00	.00	.00	.00	1.39	.00	.00	.00	.00	.26	.00	.00
13	.28	.00	.12	.00	.19	.00	.35	.00	.00	.01	.00	.00
14	.00	.00	.53	.00	.73	.00	.38	.00	.25	.02	.00	.00
15	.00	.00	.00	.00	.01	.00	.58	.00	.06	.00	.00	.00
16	.00	.00	.00	.00	.00	.56	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.10	.00	.37	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.17	.00	.01	.00	.01	.00	.03	.88
19	.15	.00	.16	---	.00	.00	.00	.00	.00	.04	.00	.09
20	.66	.00	.10	---	.00	1.22	.00	.00	.00	.00	.00	.00
21	.00	.01	.25	---	.00	.00	.00	.05	.00	.24	.00	.29
22	.00	.01	.01	---	.00	.00	.00	.00	.00	.30	.00	1.50
23	.00	.00	.00	---	.00	.00	.00	.03	.00	.63	.00	1.49
24	.00	.00	.00	---	.00	.00	.75	.03	.00	.01	.05	.00
25	.00	.00	.00	---	.00	.00	.29	.31	.00	.00	.05	.87
26	.00	.54	.00	---	.00	.00	.02	.00	.00	.00	.08	.00
27	.00	.00	.00	---	.23	.27	.00	.00	.16	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.14	.26	.35	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.01	.37	.01	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.25	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.00	.25	---
TOTAL	4.49	1.28	1.47	2.66	2.86	2.77	3.73	0.80	3.85	4.16	3.59	7.20

350314080484945 CRN08

LOCATION.--Lat 35°03'14", long 80°48'49", Mecklenburg County, Hydrologic Unit 03050103, Elm Lane at intersection of Providence Road West, 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 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.01	.00	.00	.01	.00	1.58	.38
2	.00	---	.00	.00	.00	.00	.19	.22	.00	.00	.19	1.60
3	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.01	.58
4	.26	.00	.00	.16	.00	.27	.02	.00	---	.00	.14	.02
5	.00	.00	.01	.00	.00	.00	.00	.00	---	.00	.00	.01
6	.00	.00	.01	.00	.00	.00	.00	.00	---	.04	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.70	.00	.00
8	.00	.00	.00	.00	.00	.00	.51	.00	.00	.00	.26	.00
9	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00
10	2.14	.00	.30	.84	.00	.02	.00	.00	.00	.00	1.17	.00
11	1.07	.02	.00	.00	.00	.26	.00	.00	.00	1.39	.26	.00
12	.00	.00	.00	.00	1.28	.00	.00	.00	.00	.50	.00	.00
13	.20	.00	.12	.00	.19	.00	.32	.03	.00	.05	.00	.00
14	.00	.00	.47	.00	.66	.00	.51	.00	---	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.78	.00	---	.00	.00	.00
16	.00	.00	.00	.00	.00	.44	.00	.00	---	.00	.00	.00
17	.00	.00	.00	.00	.13	.00	.27	.00	---	.00	.00	.00
18	.00	.00	.00	---	.15	.00	.00	.00	---	.00	.10	.78
19	.18	.00	.20	---	.01	.00	.00	.00	---	.00	.00	.07
20	.70	.00	.08	---	.00	1.15	.00	.00	.00	.00	.00	.00
21	.01	.00	.26	---	.00	.00	.00	.00	.00	.37	.00	.26
22	.00	.00	.02	---	.00	.00	.00	.00	.00	.74	.00	1.15
23	.00	.00	.00	---	.00	.00	.00	.03	.00	.53	.00	1.46
24	.00	.00	.00	---	.00	.00	.95	.06	.00	.02	.12	.00
25	.00	.01	.00	---	.00	.00	.14	.30	.00	.01	.05	.69
26	.00	.56	.00	---	.00	.00	.01	.00	.00	.00	.37	.00
27	.00	.00	.00	---	.25	.22	.01	.00	.57	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.14	.07	.25	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.01	.01	.32	.00	.00	.00
30	.00	.00	.00	---	---	.00	.01	.00	.00	.00	.32	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.00	.08	---
TOTAL	4.56	---	1.47	3.25	2.67	2.40	3.88	0.74	---	5.36	4.65	7.00

351414080463245 CRN09

LOCATION.--Lat 35°14'14", long 80°46'32", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.44	.09
2	.00	.61	.00	.00	.00	.00	.18	1.03	.00	.00	.89	.92
3	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.64	.06
4	.12	.00	.00	.26	.00	.24	.02	.00	.16	.00	.23	.70
5	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	.00	.02
6	.00	.00	.04	.00	.00	.00	.00	.00	.00	.05	.00	.01
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.00	.00
8	.00	.00	.00	.03	.00	.00	.81	.00	.00	.00	.00	.00
9	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	.00	.00
10	2.35	.00	.25	.81	.00	.00	.00	.09	.00	.13	.38	.00
11	1.81	.09	.00	.00	.04	.15	.00	.01	.00	.23	.00	.00
12	.00	.00	.00	.00	.85	.00	.00	.00	.00	1.48	.00	.00
13	.66	.00	.15	.00	.19	.00	1.01	.19	.00	.03	.00	.00
14	.00	.00	.57	.00	.73	.00	.40	.00	.36	1.28	.00	.00
15	.00	.00	.00	.00	.00	.00	.92	.00	.03	.01	.00	.00
16	.00	.00	.00	.00	.00	.79	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.15	.00	.33	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.18	.00	.01	.00	.00	.00	.64	1.02
19	.11	.00	.06	---	.00	.00	.00	.00	.00	.24	.00	.12
20	.63	.00	.10	---	.00	1.53	.00	.00	.00	.00	.00	.00
21	.00	.02	.34	---	.00	.00	.00	.03	.00	.03	.00	.04
22	.00	.00	.00	---	.00	.00	.00	.00	.02	.00	.00	.90
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.32	.00	2.89
24	.00	.00	.00	---	.00	.00	.47	.08	.00	.08	.22	.00
25	.00	.00	.00	---	.00	.00	.21	.02	.00	.05	.09	.34
26	.00	.74	.00	---	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	---	.55	.41	.00	.00	.02	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.55	.09	.62	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.04	.18	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.17	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.15	.13	---
TOTAL	5.68	1.46	1.51	2.90	2.69	3.13	5.05	1.62	1.68	4.36	3.83	7.11

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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57	.11
2	.00	.45	.00	.00	.00	.00	.21	.02	.00	.00	.03	.19
3	.00	.00	.00	.00	.00	.00	.17	.00	.07	.00	1.18	1.91
4	.21	.00	.00	.31	.00	.09	.02	.00	.04	.00	.10	.01
5	.00	.00	.01	.00	.00	.00	.00	.00	.33	.00	.00	.00
6	.00	.00	.03	.00	.00	.00	.00	.00	.01	.10	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00
8	.00	.00	.00	.02	.00	.00	.88	.00	.00	.00	.05	.00
9	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00
10	2.64	.00	.31	.82	.00	.00	.00	.48	.00	.00	.26	.00
11	1.49	.01	.00	.00	.06	.32	.00	.00	.00	.40	.00	.00
12	.00	.01	.00	.00	.77	.00	.00	.00	.00	1.90	.00	.00
13	.23	.00	.12	.00	.24	.00	1.04	.02	.00	.01	.00	.00
14	.00	.00	.39	.00	.69	.00	.66	.01	.12	.02	.00	.00
15	.00	.00	.00	.00	.00	.00	.69	.00	.43	.00	.00	.00
16	.00	.00	.00	.00	.00	1.04	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.13	.00	.17	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.17	.00	.00	.00	.40	.00	.30	1.17
19	.07	.00	.07	---	.00	.00	.00	.00	.01	.16	.00	.10
20	.62	.00	.07	---	.00	1.27	.00	.00	.00	.01	.00	.00
21	.01	.03	.40	---	.00	.00	.00	.00	.00	.02	.00	.06
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00	1.19
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.28	.00	.91
24	.00	.00	.00	---	.00	.00	.43	.10	.00	.03	.35	.00
25	.00	.02	.00	---	.00	.00	.15	.03	.00	.06	.07	.47
26	.00	1.13	.00	---	.00	.00	.02	.01	.17	.00	.00	.00
27	.00	.00	.00	---	.35	.28	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.26	.09	.41	.03	.00	.00
29	.00	.00	.00	---	.00	.00	.07	.02	.24	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.13	.00
31	.00	---	.00	.00	---	.05	---	.00	---	.02	.34	---
TOTAL	5.27	1.66	1.40	3.01	2.41	3.05	4.77	0.82	2.23	3.30	3.38	6.12

350823080505345 CRN12

LOCATION.--Lat 35°08'23", long 80°50'53", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.14	.03
2	.00	.39	.00	.00	.00	.00	.16	.00	.00	.00	.95	.33
3	.00	.00	.00	.00	.00	.00	.12	.00	.07	.00	.13	.19
4	.12	.00	.00	.19	.00	.16	.00	.00	.78	.00	.12	.01
5	.00	.00	.00	.00	.00	.00	.00	.00	1.16	.00	.00	.00
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.08	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.04
8	.00	.00	.00	.00	.00	.00	.71	.00	.00	.00	.00	.00
9	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00	.00	.00
10	2.48	.00	.29	.75	.00	.00	.00	.00	.00	.00	.81	.00
11	1.20	.12	.00	.00	.13	.15	.00	.00	.00	.84	.00	.00
12	.00	.00	.00	.00	1.01	.00	.00	.00	.00	.67	.00	.00
13	.35	.00	.14	.00	.19	.00	.41	.15	.00	.03	.00	.00
14	.00	.00	.55	.00	.79	.00	.59	.00	.35	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.66	.00	.05	.00	.00	.00
16	.00	.00	.00	.00	.00	.46	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.17	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.14	.25	.00	.00	.02	.00	.01	1.02
19	.12	.00	.07	---	.00	.00	.00	.00	.00	.61	.00	.10
20	.66	.00	.06	---	.00	1.53	.00	.00	.00	.00	.00	.00
21	.01	.00	.32	---	.00	.00	.00	.01	.00	.03	.00	.11
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00	.89
23	.00	.00	.00	---	.00	.00	.00	.06	.00	.46	.00	1.14
24	.00	.00	.00	---	.00	.00	.52	.09	.00	.02	.26	.00
25	.00	.01	.00	---	.00	.00	.16	.06	.00	.01	.20	.87
26	.00	1.06	.00	---	.00	.00	.01	.00	.18	.00	1.03	.00
27	.00	.00	.00	---	.71	.35	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.23	.18	.74	.00	.00	.00
29	.00	.00	.00	---	.00	.01	.00	.00	.46	.00	.00	.00
30	.00	.00	.00	---	---	.02	.00	.00	.00	.00	.18	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.26	---
TOTAL	4.94	1.59	1.45	2.51	3.14	2.97	3.75	0.55	3.81	2.98	5.09	4.73

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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.30	.16
2	.00	.39	.00	.00	.00	.00	.18	.00	.00	.00	.11	.36
3	.00	.00	.00	.00	.00	.00	.15	.00	---	.00	.13	.04
4	.13	.00	.00	.21	.00	.18	.01	.00	---	.00	.09	.02
5	.01	.00	.00	.00	.00	.00	.00	.00	---	.00	.00	.00
6	.00	.00	.03	.00	.00	.00	.00	.00	.00	.09	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.29	.00	.05
8	.00	.00	.00	.00	.00	.00	.67	.00	.00	.00	.02	.00
9	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00
10	2.50	.00	.22	.63	.00	.00	.00	.04	.00	.00	.24	.00
11	1.37	.10	.00	.00	.12	.18	.00	.00	.00	1.17	.00	.00
12	.00	.00	.00	.00	.99	.00	.00	.00	.00	---	.00	.00
13	.34	.00	.15	.00	.20	.00	.57	.16	.00	---	.00	.00
14	.00	.00	.44	.00	.59	.00	.55	.00	---	---	.00	.00
15	.00	.00	.00	.00	.00	.00	.61	.00	---	.00	.00	.00
16	.00	.00	.00	.00	.00	.49	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.20	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.11	.00	.00	.00	---	.00	.04	.91
19	.05	.00	.09	---	.00	.00	.00	.00	.00	.53	.00	.08
20	.63	.00	.05	---	.00	1.39	.00	.00	.00	.00	.00	.00
21	.00	.02	.35	---	.00	.00	.00	.00	.00	.12	.00	.05
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	.74
23	.00	.01	.00	---	.00	.00	.00	.06	.00	.28	.00	.81
24	.00	.00	.00	---	.00	.00	.41	---	.00	.03	.25	.00
25	.00	.02	.00	---	.00	.00	.10	---	.00	.02	.38	.47
26	.00	.72	.00	---	.00	.00	.03	.00	.10	.00	.56	.00
27	.00	.00	.00	---	.37	.19	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.19	.07	.76	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.01	.00	.59	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.12	.00
31	.00	---	.00	.00	---	.05	---	.00	---	.06	.10	---
TOTAL	5.03	1.26	1.34	2.69	2.55	2.49	3.68	---	---	---	3.34	3.69

351553080562645 CRN14

LOCATION.--Lat 35°15'53", long 80°56'26", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	.22
2	.00	.53	.00	.00	.00	.00	.26	.00	.00	.00	.03	.39
3	.00	.00	.00	.00	.00	.00	.21	.00	.10	.00	.35	.12
4	.18	.00	.00	.36	.00	.05	.02	.00	.07	.00	.10	.04
5	.00	.00	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00
6	.00	.00	.07	.00	.00	.00	.00	.00	.00	.12	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46	.00	.00
8	.00	.00	.00	.04	.00	.00	.47	.00	.00	.00	.39	.00
9	.00	.00	.00	.38	.00	.00	.00	.00	.00	.00	.00	.00
10	2.33	.00	.26	.67	.00	.00	.00	.39	.00	.00	.48	.00
11	1.18	.23	.00	.00	.02	.25	.00	.01	.00	.04	.00	.00
12	.00	.00	.00	.00	.85	.00	.00	.00	.00	.80	.00	.00
13	.32	.00	.12	.00	.24	.00	.79	.44	.00	.01	.00	.00
14	.00	.00	.41	.00	.57	.00	.71	.00	.00	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.77	.00	.37	.00	.00	.00
16	.00	.00	.00	.00	.00	1.92	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.13	.00	.31	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.14	.00	.00	.00	.30	.00	.46	1.14
19	.05	.00	.02	---	.00	.00	.00	.00	.00	.01	.01	.08
20	.52	.00	.07	---	.00	1.29	.00	.00	.00	.00	.00	.00
21	.00	.02	.54	---	.00	.00	.00	.08	.00	.00	.00	.09
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.04	.00	1.59
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.16	.00	.69
24	.00	.00	.00	---	.00	.00	.40	.11	.00	.03	.35	.06
25	.00	.03	.00	---	.00	.00	.17	.04	.49	.39	.10	.13
26	.00	.79	.00	---	.00	.00	.00	.01	.03	.00	.00	.00
27	.00	.00	.00	---	.26	.68	.00	.00	.09	.15	.00	.00
28	.00	.00	.00	---	.00	.00	.31	.10	.51	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.01	.01	.13	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.11	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.07	.22	---
TOTAL	4.58	1.60	1.50	2.63	2.21	4.22	4.43	1.23	2.43	2.29	2.87	4.55

351320080502645 CRN15

LOCATION.--Lat 35°13'20", long 80°50'26", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.11	.20
2	.00	.35	.00	.00	.00	.00	.21	.12	.00	.00	.03	.22
3	.00	.00	.00	.00	.00	.00	.15	.00	.08	.00	.80	.45
4	.13	.00	.00	.34	.00	.14	.02	.00	.06	.00	.10	.04
5	.00	.00	.01	.00	.00	.00	.00	.00	.36	.00	.00	.01
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.05	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.57	.00	.00
8	.00	.00	.00	.02	.00	.00	.88	.00	.00	.00	.01	.00
9	.00	.00	.00	.32	.00	.00	.00	.00	.00	.00	.00	.00
10	2.47	.00	.29	.66	.00	.00	.00	.35	.00	.00	.49	.00
11	1.60	.00	.00	.00	.16	.26	.00	.00	.00	.39	.00	.00
12	.00	.00	.00	.00	.75	.00	.00	.00	.00	1.62	.00	.00
13	.39	.00	.14	.00	.18	.00	1.33	.09	.00	.02	.00	.00
14	.00	.00	.39	.00	.69	.00	.58	.00	.57	.05	.00	.00
15	.00	.00	.00	.00	.00	.00	.56	.00	.09	.00	.00	.00
16	.00	.00	.00	.00	.00	.98	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.15	.00	.21	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.15	.00	.00	.00	.21	.00	.18	1.16
19	.06	.00	.08	---	.00	.00	.00	.00	.00	.19	.00	.10
20	.60	.00	.05	---	.00	1.19	.00	.00	.00	.00	.00	.00
21	.00	.01	.33	---	.00	.00	.00	.00	.00	.02	.00	.04
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00	.89
23	.00	.00	.00	---	.00	.00	.00	.02	.00	.30	.00	1.38
24	.00	.00	.00	---	.00	.00	.24	.09	.00	.03	.36	.00
25	.00	.01	.00	---	.00	.00	.14	.02	.00	.07	.01	.40
26	.00	.83	.00	---	.00	.00	.00	.00	.00	.01	.02	.00
27	.00	.00	.00	---	.53	.42	.00	.00	.02	.00	.00	.00
28	.00	.00	.00	---	.00	.01	.34	.07	.80	.03	.00	.00
29	.00	.00	.00	---	.00	.00	.02	.01	.25	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.16	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.07	.23	---
TOTAL	5.25	1.21	1.31	2.47	2.61	3.03	4.69	0.77	2.44	4.42	3.50	4.89

351023080435745 CRN17

LOCATION.--Lat 35°10'23", long 80°43'57", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.04	.12
2	.00	.78	.00	.00	.00	.00	.16	.54	.00	.00	.00	1.55
3	.00	.00	.00	.00	.00	.00	.11	.01	.00	.00	.03	.11
4	.10	.00	.00	.12	.00	.30	.01	.00	.68	.00	.14	.01
5	.00	.00	.00	.00	.00	.01	.00	.00	1.36	.00	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.02	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00	.00
8	.00	.00	.01	.00	.00	.00	.75	.00	.00	.62	.00	.00
9	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00	.00	.00
10	2.52	.00	.31	.79	.00	.00	.00	.14	.00	.00	.62	.00
11	1.58	.44	.00	.00	.12	.20	.00	.00	.00	1.09	.00	.00
12	.00	.00	.00	.00	.99	.00	.01	.00	.00	2.43	.00	.00
13	.32	.00	.12	.00	.17	.00	.58	.08	.00	.00	.00	.00
14	.01	.00	.60	.00	.80	.00	.31	.00	.01	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.61	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.10	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.21	.00	.01	.00	.00	.00	.02	.75
19	.28	.00	.09	---	.00	.00	.00	.00	.00	.58	.01	.06
20	.74	.00	.07	---	.00	1.17	.00	.00	.00	.00	.00	.00
21	.01	.00	.26	---	.00	.00	.00	.04	.00	.01	.00	.06
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	.96
23	.00	.01	.00	---	.00	.00	.00	.02	.00	.24	.00	1.30
24	.00	.00	.00	---	.00	.00	.43	.08	.00	.05	.31	.00
25	.00	.00	.00	---	.00	.00	.21	.07	.00	.03	.04	.62
26	.00	.72	.00	---	.00	.00	.02	.00	.00	.00	.00	.00
27	.00	.00	.00	---	.29	.46	.00	.00	.03	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.22	.07	.51	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.01	.31	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.22	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.12	---
TOTAL	5.56	1.95	1.48	2.63	2.75	2.53	3.53	1.06	2.90	5.50	2.55	5.54

351132080504145 CRN19

LOCATION.--Lat 35°11'32", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	.33
2	.00	.43	.00	.00	.00	.00	.18	.01	.00	.00	---	.22
3	.00	.00	.00	.00	.00	.00	.14	.00	.04	.00	---	.51
4	.12	.00	.00	.30	.00	.12	.02	.00	.22	.00	---	.00
5	.00	.00	.00	.00	.00	.01	.00	.00	.36	.00	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.10	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00
8	.00	.00	.00	.01	.00	.00	.80	.00	.00	.00	.00	.00
9	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00	.06	.00
10	2.61	.00	.20	.83	.00	.00	.00	.71	.00	.00	.33	.00
11	1.64	.10	.00	.00	.11	.17	.00	.01	.00	1.09	.00	.00
12	.00	.00	.00	.00	1.34	.00	.01	.00	.00	.89	.00	.00
13	.48	.00	.16	.00	.22	.00	.42	.19	.00	.02	.00	.00
14	.00	.00	.48	.00	.73	.00	.26	.00	.39	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.30	.00	.08	.00	.00	.00
16	.00	.00	.00	.00	.00	.46	.01	.00	.01	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.12	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.15	.00	.00	.00	.12	.00	.11	.68
19	.04	.00	.07	---	.00	.00	.02	.00	.00	.31	.00	.11
20	.67	.00	.07	---	.00	1.46	.00	.00	.00	.00	.00	.00
21	.01	.00	.35	---	.00	.00	.00	.02	.00	.10	.00	.01
22	.00	.01	.01	---	.00	.00	.00	.00	.00	.00	.00	.74
23	.00	.00	.00	---	.00	.00	.00	.05	.00	---	.00	1.37
24	.00	.00	.00	---	.00	.00	.46	.10	.00	---	.32	.00
25	.00	.01	.00	---	.00	.00	.14	.07	.00	---	.11	.39
26	.00	.76	.00	---	.00	.00	.01	.01	.00	.00	.06	.00
27	.00	.00	.00	---	.64	.26	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.31	.04	.78	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.01	.00	.03	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.01	.00	.00	.00
31	.00	---	.00	.00	---	.03	---	.00	---	---	.00	---
TOTAL	5.57	1.31	1.35	2.92	3.36	2.51	3.21	1.21	2.05	---	---	4.36

351032080475245 CRN20

LOCATION.--Lat 35°10'32", long 80°47'52", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.06	.16
2	.00	.44	.00	.00	.00	.00	.16	.05	.00	.00	.52	.69
3	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.34	.27
4	.16	.00	.00	.22	.00	.14	.00	.00	1.02	.00	.15	.04
5	.00	.00	.00	.00	.00	.00	.00	.00	.72	.00	.00	.00
6	.00	.00	.03	.00	.00	.00	.00	.00	.00	.04	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.18	.00	.00
8	.00	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00	.00
9	.00	.00	.00	.30	.00	.00	.00	.00	.00	.00	.06	.00
10	2.37	.00	.22	.85	.00	.00	.00	.61	.00	.00	.70	.00
11	1.39	.11	.00	.00	.08	.14	.00	.00	.00	1.39	.00	.00
12	.00	.00	.00	.00	.95	.00	.00	.00	.00	1.00	.00	.00
13	.41	.00	.12	.00	.18	.00	.60	.21	.00	.01	.00	.00
14	.00	.00	.57	.00	.76	.00	.38	.00	.19	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.75	.00	.02	.00	.00	.00
16	.00	.00	.00	.00	.00	.41	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.10	.00	.00	.00	.00	.01
18	.00	.00	.00	---	.13	.00	.00	.09	.03	.00	.12	.80
19	.20	.00	.06	---	.00	.00	.00	.00	.00	.35	.00	.08
20	.64	.00	.06	---	.00	1.56	.00	.00	.00	.00	.00	.00
21	.01	.02	.32	---	.00	.00	.00	.08	.00	.03	.00	.04
22	.00	.00	.01	---	.00	.00	.00	.02	.00	.00	.00	.95
23	.00	.00	.00	---	.00	.00	.00	.07	.00	.76	.00	2.20
24	.00	.00	.00	---	.00	.00	.51	.08	.00	.03	.45	.00
25	.00	.00	.00	---	.00	.00	.33	.05	.00	.02	.05	.66
26	.00	1.18	.00	---	.00	.00	.00	.02	.10	.00	.01	.00
27	.00	.00	.00	---	.52	.28	.00	.00	.04	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.31	.12	.57	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.00	.50	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.15	.00
31	.00	---	.00	.00	---	.03	---	.02	---	.10	.32	---
TOTAL	5.18	1.75	1.39	2.29	2.79	2.57	3.91	1.42	3.19	4.91	3.93	5.90

350842080572801 CRN21

LOCATION.--Lat 35°08'42", long 80°57'28", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.55	.59
2	.00	.46	.00	.00	.00	.00	.13	.00	.00	.00	.22	.38
3	.00	.00	.00	.00	.01	.00	.18	.00	.00	.00	.32	.26
4	.17	.00	.00	.25	.00	.23	.01	.00	.17	.00	.05	.10
5	.01	.00	.00	.00	.00	.01	.00	.00	.57	.00	.00	.01
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.89	.00	.00	.00	.04	.00
9	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	.00	.00
10	2.83	.00	.25	.80	.00	.01	.00	.01	.00	.00	.24	.00
11	1.42	.00	.00	.01	.03	.32	.00	.00	.00	1.15	.00	.00
12	.00	.00	.00	.02	1.42	.00	.00	.00	.00	.08	.00	.00
13	.10	.00	.06	.00	.21	.00	.49	.05	.00	.01	.00	.00
14	.01	.00	.38	.00	.72	.00	.66	.01	.00	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.67	.01	.51	.00	.00	.00
16	.00	.00	.00	.00	.00	.53	.01	.00	.01	.00	.00	.00
17	.00	.00	.00	.00	.13	.02	.10	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.11	.00	.00	.01	.12	.00	.07	1.02
19	.00	.00	.04	---	.01	.00	.00	.01	.01	.23	.00	.05
20	.55	.00	.06	---	.00	1.79	.00	.00	.00	.00	.01	.00
21	.01	.00	.35	---	.00	.00	.01	.00	.00	.47	.01	.08
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	---
23	.00	.00	.01	---	.00	.00	.00	.00	.00	.20	.00	---
24	.00	.00	.01	---	.00	.00	.33	.13	.00	.02	.17	.00
25	.00	.00	.00	---	.00	.00	.13	.05	.00	.05	.69	.36
26	.00	.99	.00	---	.00	.00	.01	.01	.90	.00	.17	.00
27	.00	.00	.00	---	.20	.22	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.01	.02	.16	.07	1.29	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.01	.39	.00	.00	.00
30	.00	.00	.00	---	---	.00	.01	.00	.00	.00	.10	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.03	---
TOTAL	5.10	1.45	1.17	2.33	2.86	3.19	3.79	0.37	3.98	2.26	2.67	---

350623080583801 CRN22

LOCATION.--Lat 35°06'41", long 80°58'20", 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 site. 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 may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.87	.34
2	.00	.65	.00	.00	.00	.00	---	.01	.00	.00	.08	.36
3	.00	.00	.00	.00	.00	.00	---	.01	.01	.00	.33	.53
4	.19	.00	.00	.21	.01	.30	---	.00	.41	.00	.07	.37
5	.00	.00	.00	.01	.00	.00	.00	.00	1.08	.00	.00	.01
6	.00	.00	.01	.00	.00	.03	.00	.01	.00	---	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.04
8	.01	.00	.00	.00	.00	.00	.76	.00	.00	.00	.53	.00
9	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00
10	2.95	.00	.22	.82	.00	.00	.00	.00	.00	---	1.36	.00
11	1.47	.00	.00	.01	.00	.24	.01	.00	.00	---	.05	.00
12	.01	.00	.00	.01	1.13	.01	.00	.00	.00	---	.00	.00
13	.14	.00	.17	.00	.23	.00	.34	.04	.00	---	.00	.00
14	.00	.00	.39	.00	.83	.00	.70	.01	.10	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.65	.01	.30	.00	.00	.00
16	.00	.00	.00	.00	.00	.28	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.15	.02	.18	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.11	.00	.00	.00	.00	.00	.11	1.06
19	.03	.00	.02	---	.02	.00	.00	.00	.00	---	.00	.06
20	.63	.00	.08	---	.00	1.44	.00	.01	.00	.00	.01	.00
21	.00	.00	.34	---	.00	.01	.00	.00	.00	---	.02	.06
22	.00	.01	.01	---	.00	.01	.00	.00	.00	.00	.00	1.08
23	.00	.00	.00	---	.00	.00	.00	.03	.00	---	.00	1.00
24	.00	.00	.00	---	.00	.00	.42	.12	.00	---	---	.00
25	.00	.03	.00	---	.00	.00	.14	.10	.00	---	---	.68
26	.00	.82	.00	---	.00	.00	.02	.01	.20	.00	---	.00
27	.00	.00	.00	---	.36	.28	.01	.01	.01	.00	.00	.00
28	.00	.00	.00	---	.01	.03	.16	.15	.89	.00	.00	.00
29	.00	.01	.00	---	.00	.00	.02	.01	.38	.00	.00	.00
30	.00	.00	.00	---	---	.00	.02	.00	.00	.00	.20	.00
31	.00	---	.00	.00	---	.05	---	.00	---	---	.06	---
TOTAL	5.43	1.52	1.24	2.87	2.85	2.70	---	0.53	3.38	---	---	5.59

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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.13	.19
2	.00	.44	.00	.00	.00	.00	.18	1.48	.00	.00	.00	.61
3	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00	1.62	1.15
4	.12	.00	.00	.32	.00	.17	.02	.00	.14	.08	.13	.64
5	.01	.00	.00	.00	.00	.00	.00	.00	.29	.01	.00	.00
6	.00	.00	.04	.00	.00	.00	.00	.00	.00	.03	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00
8	.00	.00	.00	.04	.00	.00	.97	.00	.00	.00	.00	.00
9	.01	.00	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00
10	2.20	.00	.27	.64	.00	.00	.00	.00	.00	.12	.64	.00
11	1.62	1.28	.00	.00	.00	.18	.00	.00	.00	.10	.00	.00
12	.00	.01	.00	.00	.69	.00	.00	.00	.00	1.38	.00	.00
13	.58	.00	.13	.00	.19	.00	.56	.18	.00	.01	.00	.00
14	.00	.00	.43	.00	.72	.00	.44	.00	.03	.26	.00	.00
15	.00	.00	.00	.00	.00	.00	.76	.00	.03	.00	.00	.00
16	.00	.00	.00	.00	.00	1.56	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.12	.00	.13	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.17	.00	.00	.00	.38	.00	1.01	1.09
19	.08	.00	.06	---	.00	.00	.00	.00	.00	.14	.00	.13
20	.60	.00	.10	---	.00	1.41	.00	.00	.00	.00	.00	.00
21	.01	.00	.35	---	.00	.00	.00	.00	.00	.00	.00	.07
22	.00	.00	.01	---	.00	.00	.00	.00	.14	.00	.00	.73
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.41	.00	2.15
24	.00	.00	.00	---	.00	.00	.41	.08	.00	.05	.32	.00
25	.00	.01	.00	---	.00	.00	.17	.02	.00	.09	.00	.75
26	.00	.85	.00	---	.00	.00	.02	.00	.00	.01	.00	.00
27	.00	.00	.00	---	.40	.40	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.54	.03	.82	.02	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.02	.16	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.19	.00
31	.00	---	.00	.00	---	.02	---	.00	---	.13	.10	---
TOTAL	5.23	2.59	1.39	2.58	2.29	3.74	4.37	1.85	2.00	3.26	5.14	7.51

350110080502045 CRN31

LOCATION.--Lat 35°01'10", long 80°50'20", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.99	.04
2	.00	.53	.00	.00	.00	.00	.25	.41	.00	.00	.12	.99
3	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01	.76
4	.34	.00	.00	.18	.00	.39	.03	.00	.02	.00	.23	.04
5	.00	.00	.02	.00	.00	.00	.00	.00	2.09	.00	.00	.07
6	.00	.00	.02	.00	.00	.00	.00	.00	.01	.04	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00	.01
8	.00	.00	.00	.00	.00	.00	.61	.00	.00	.00	.60	.00
9	.00	.00	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00
10	2.03	.00	.37	.97	.00	.04	.00	.00	.00	.00	1.16	.00
11	.73	.04	.00	.00	.00	.28	.00	.00	.00	1.01	.01	.00
12	.00	.00	.00	.00	1.35	.00	.00	.00	.00	.76	.00	.00
13	.14	.00	.12	.00	.20	.00	.26	.00	.00	.07	.00	.00
14	.00	.00	.45	.00	.77	.00	.53	.00	.15	.16	.00	.00
15	.00	.00	.00	.00	.00	.00	.65	.00	.47	.00	.00	.00
16	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.11	.00	.14	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.13	.00	.00	.00	.00	.00	.05	.90
19	.18	.00	.18	---	.00	.00	.00	.00	.02	.01	.00	.02
20	.61	.00	.08	---	.00	1.19	.00	.00	.00	.01	.00	.00
21	.00	.02	.28	---	.00	.00	.00	.03	.00	.30	.00	.07
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.34	.00	1.29
23	.00	.01	.00	---	.00	.00	.00	.03	.00	.51	.00	1.54
24	.00	.00	.01	---	.00	.00	.87	.06	.00	.02	.03	.00
25	.00	.01	.00	---	.00	.00	.11	.45	.00	.02	.12	.91
26	.00	.60	.00	---	.00	.00	.00	.00	.02	.00	1.01	.00
27	.00	.00	.00	---	.25	.29	.00	.00	.16	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.11	.25	.28	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.06	.01	.45	.03	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.39	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.00	.08	---
TOTAL	4.03	1.21	1.53	3.71	2.81	2.73	3.62	1.25	3.67	3.90	4.80	6.64

352555080574445 CRN34

LOCATION.--Lat 35°25'55", long 80°57'44", Lincoln County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.50
2	.00	.80	.00	.00	.00	.00	.15	.08	.00	.00	.10	.52
3	.00	.00	.00	.00	.00	.00	.22	.00	.06	.00	.38	.64
4	.50	.00	.00	.29	.00	.00	.01	.00	.01	.22	.03	.97
5	.00	.00	.02	.00	.00	.00	.00	.00	.19	.08	.00	.00
6	.00	.00	.59	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.73	.00	.00
8	.00	.00	.00	.04	.00	.00	.43	.00	.00	.00	.00	.00
9	.00	.00	.00	.69	.00	.00	.00	.00	.00	.00	.00	.00
10	1.37	.00	.28	.76	.00	.00	.00	.00	.00	.00	.29	.00
11	1.59	.19	.00	.00	.00	.14	.00	.00	.00	.14	.00	.00
12	.00	.00	.00	.00	.81	.00	.00	.00	.00	.18	.00	.00
13	.16	.00	.23	.00	.21	.00	.20	.32	.00	.18	.00	.00
14	.00	.00	.38	.00	.43	.00	.76	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.48	.00	.03	.00	.00	.00
16	.00	.00	.00	.00	.00	1.35	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.06	.01	.17	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.08	.00	.00	.00	.19	.00	.20	1.29
19	.00	.00	.07	---	.00	.00	.00	.00	.00	.13	.00	.21
20	.37	.00	.03	---	.00	1.46	.00	.00	.00	.00	.00	.00
21	.00	.11	.81	---	.00	.00	.00	.05	.02	.00	.00	.06
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.57
23	.00	.00	.00	---	.00	.00	.00	.11	.00	.90	.00	.41
24	.00	.00	.00	---	.00	.00	.65	.11	.00	.09	.18	.00
25	.00	.14	.00	---	.00	.00	.06	.02	.00	.86	.00	.85
26	.00	.66	.00	---	.00	.00	.00	.00	.12	.00	.07	.00
27	.00	.00	.00	---	.37	.38	.00	.00	.18	.04	.00	.00
28	.00	.00	.00	---	.00	.00	.83	.11	.02	.02	.00	.00
29	.00	.00	.00	---	.00	.01	.01	.10	.19	.00	.00	.00
30	.06	.00	.00	---	---	.02	.00	.00	.00	.00	.14	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.47	.04	---
TOTAL	4.05	1.90	2.41	2.99	1.96	3.38	3.97	0.90	1.01	5.05	1.52	6.02

351247080592745 CRN37

LOCATION.--Lat 35°12'47", long 80°59'27", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.48	.68
2	.00	.85	.00	.00	.01	.00	.24	.00	.00	.00	.07	.91
3	.00	.00	.00	.00	.00	.00	.24	.04	.04	.00	.09	.23
4	.26	.00	.00	.41	.00	.12	.03	.00	.02	.00	.09	.30
5	.00	.00	.01	.00	.00	.00	.00	.00	.40	.00	.00	.01
6	.00	.00	.06	.00	.00	.00	.00	.00	.00	.09	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
8	.00	.00	.00	.03	.00	.00	.72	.00	.00	.00	.12	.00
9	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.01	.00
10	2.89	.00	.39	.76	.00	.00	.00	.05	.00	.00	.70	.00
11	1.60	.19	.00	.00	.28	.24	.00	.00	.00	.17	.00	.00
12	.00	.00	.00	.00	.96	.00	.00	.00	.00	.12	.00	.00
13	.37	.00	.15	.00	.26	.00	1.00	.24	.00	.01	.00	.00
14	.00	.00	.44	.00	.65	.00	.89	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.67	.00	.72	.00	.00	.00
16	.00	.00	.00	.00	.00	1.57	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.17	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.16	.00	.00	.00	.75	.00	.16	1.51
19	.05	.00	.07	---	.00	.00	.00	.00	.00	.27	.00	.07
20	.54	.00	.05	---	.00	1.63	.00	.00	.00	.01	.01	.00
21	.01	.01	.59	---	.00	.00	.00	.01	.00	.01	.01	.08
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.01	.00	1.53
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.11	.00	.95
24	.00	.00	.00	---	.00	.00	.45	.13	.00	.03	.55	.00
25	.00	.05	.00	---	.00	.00	.15	.04	.58	.11	.36	.18
26	.00	.95	.00	---	.00	.00	.10	.01	.07	.01	.02	.00
27	.00	.00	.00	---	.35	.26	.01	.00	.11	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.24	.08	.94	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.03	.01	.32	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.12	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.03	.12	---
TOTAL	5.72	2.05	1.77	3.35	2.84	3.86	4.94	0.65	3.95	0.98	2.91	6.50

350200081020345 CRN38

LOCATION.--Lat 35°02'00", long 81°02'03", York County, South Carolina, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.65	2.25
2	.00	.89	.00	.00	.01	.00	.19	.25	.00	.00	.12	.57
3	.00	.00	.00	.00	.00	.00	.09	.01	.00	.00	.23	1.03
4	.28	.00	.00	.26	.00	.67	.01	.02	.02	.00	.04	.39
5	.00	.00	.02	.00	.00	.01	.00	.00	1.38	.02	.00	.39
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.02
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.09
8	.00	.00	.00	.00	.00	.00	.72	.00	.00	.00	.01	.00
9	.00	.00	.00	.32	.00	.00	.00	.00	.00	.00	.00	.00
10	3.24	.00	.34	.85	.00	.03	.00	.00	.00	.00	.90	.00
11	.72	.00	.00	.00	.00	.29	.00	.00	.00	1.25	.00	.00
12	.10	.00	.00	.00	.95	.00	.00	.00	.00	.16	.00	.00
13	.09	.00	.16	.00	.26	.00	.23	.13	.00	.01	.00	.00
14	.00	.00	.36	.00	.81	.00	.60	.00	.30	.28	.00	.00
15	.00	.00	.00	.00	.00	.00	.79	.00	.41	.00	.00	.00
16	.00	.00	.00	.00	.00	.41	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.19	.00	.24	.00	.01	.00	.00	.00
18	.00	.00	.00	.14	.13	.00	.00	.00	.03	.00	.02	.99
19	.04	.00	.12	.09	.00	.00	.00	.00	.00	.00	.00	.05
20	.77	.00	.04	.05	.00	1.49	.00	.00	.00	.00	.03	.00
21	.01	.00	.35	.00	.00	.00	.00	.00	.00	.02	.05	.13
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	1.74
23	.00	.00	.00	---	.00	.00	.00	.06	.00	1.73	.00	.95
24	.00	.00	.00	---	.00	.00	.55	.19	.00	.02	.13	.00
25	.00	.05	.00	---	.00	.00	.20	.55	.01	.07	.81	1.04
26	.00	.98	.00	---	.00	.00	.11	.00	.36	.00	1.02	.00
27	.00	.00	.00	---	.46	.38	.00	.00	.00	.01	.00	.00
28	.00	.00	.00	---	.01	.00	.17	.00	.41	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.05	.00	.67	.00	.00	.00
30	.00	.00	.00	---	---	.02	.00	.00	.00	.00	.35	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.01	---
TOTAL	5.25	1.92	1.42	3.49	2.82	3.34	3.95	1.21	3.60	3.59	4.37	9.64

353003080591745 CRN40

LOCATION.--Lat 35°30'03", long 80°59'17", Lincoln County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.04	1.24
2	.00	1.03	.00	.00	.00	.00	.18	.71	.00	.00	.03	.53
3	.00	.00	.00	.00	.00	.00	.47	.01	.12	.00	.03	.49
4	.39	.00	.00	.27	.00	.00	.03	.00	.03	.12	1.11	2.19
5	.01	.00	.01	.00	.00	.00	.00	.00	.14	.05	.00	.01
6	.00	.00	.45	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	---	.00	.02
8	.00	.00	.00	.03	.00	.00	.40	.00	.00	.00	.00	.00
9	.00	.00	.00	.64	.00	.00	.00	.00	.00	.00	.00	.00
10	1.09	.00	.33	1.08	.00	.00	.00	.07	.00	.00	.56	.03
11	1.53	.09	.00	.00	.00	.25	.00	.00	.01	.18	.00	.00
12	.00	.00	.00	.00	.92	.01	.00	.00	.00	.66	.00	.00
13	.09	.00	.40	.00	.18	.00	.21	.41	.03	.63	.00	.00
14	.00	.00	.40	.00	.47	.00	.65	.00	.01	.01	.00	.00
15	.00	.00	.00	.00	.00	.00	.62	.00	.06	.00	.00	.00
16	.00	.00	.00	.00	.00	1.31	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.04	.00	.32	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.11	.00	.00	.00	.10	.00	.45	1.61
19	.00	.00	.06	---	.00	.00	.00	.00	.06	.01	.00	.34
20	.43	.00	.09	---	.00	1.79	.00	.00	.00	.00	.00	.00
21	.00	.07	.71	---	.00	.00	.00	.20	.01	.06	.00	.07
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.03	.00	.66
23	.00	.00	.00	---	.00	.00	.00	.08	.00	.28	.00	.45
24	.00	.00	.01	---	.00	.00	.75	.20	.03	.11	.19	.02
25	.00	.17	.00	---	.00	.00	.07	.06	.00	.29	.02	1.15
26	.00	.63	.00	---	.00	.00	.01	.00	.08	.00	.00	.00
27	.00	.00	.00	---	.52	.32	.00	.00	.53	.06	.01	.00
28	.00	.00	.00	---	.00	.00	.84	.58	.00	.30	.00	.00
29	.00	.00	.00	---	.00	.02	.03	.04	.31	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.10	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.01	.04	---
TOTAL	3.54	1.99	2.46	3.16	2.26	3.70	4.59	2.36	1.52	---	2.58	8.81

353014080524945 CRN42

LOCATION.--Lat 35°30'14", long 80°42'49", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	---
2	.00	.60	.00	.00	.00	.00	.18	1.49	.00	.00	.07	---
3	.00	.00	.00	.00	.00	.00	.36	.01	.05	.00	---	---
4	.38	.00	.00	.38	.00	.00	.01	.00	.04	.04	---	---
5	.00	.00	.01	.00	.00	.00	.00	.00	.15	.02	.00	---
6	.00	.00	.49	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.04	.00	.02
8	.00	.00	.00	.03	.00	.00	.38	.00	.00	.00	.00	.00
9	.01	.00	.00	.70	.00	.00	.00	.00	.00	.00	.00	.00
10	1.04	.00	.29	.78	.00	.00	.00	.01	.00	.00	---	.00
11	1.86	.32	.00	.00	.00	.19	.00	.00	.00	.83	.00	.00
12	.00	.00	.00	.00	.96	.00	.00	.00	.00	.05	.00	.00
13	.11	.01	.20	.00	.19	.00	.18	.45	.00	.83	.00	.00
14	.00	.00	.45	.00	.49	.00	.27	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.57	.00	.02	.05	.00	.00
16	.00	.00	.00	.00	.00	1.49	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.06	.00	.15	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.10	.00	.01	.00	.07	.00	.09	1.33
19	.03	.00	.09	---	.00	.00	.00	.00	.00	.02	.00	.31
20	.36	.00	.10	---	.00	1.28	.00	.00	.00	.01	.00	.00
21	.01	.02	.84	---	.00	.00	.00	.03	.01	.00	.00	.05
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.02	.00	.60
23	.00	.00	.00	---	.00	.00	.00	.05	.00	.14	.00	.40
24	.00	.00	.01	---	.00	.00	.58	1.46	.00	.06	---	.01
25	.00	.08	.00	---	.00	.00	.09	.04	.00	.31	---	.85
26	.00	.76	.00	---	.00	.00	.01	.00	.06	.00	.00	.00
27	.00	.00	.00	---	.27	.38	.00	.00	.26	---	.00	.00
28	.00	.00	.00	---	.00	.00	.83	.48	.01	---	.00	.00
29	.00	.00	.00	---	.00	.01	.05	.05	.19	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	---	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.41	---	---
TOTAL	3.80	1.79	2.48	3.07	2.07	3.36	3.67	4.07	0.86	---	---	---

352440080505045 CRN43

LOCATION.--Lat 35°24'40", long 80°50'50", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.23
2	.00	.54	.00	.00	.00	.00	.18	.86	.00	.00	.03	.76
3	.00	.00	.00	.00	.00	.00	.24	.00	.02	.00	1.19	.06
4	.49	.00	.00	.35	.00	.03	.01	.00	.07	.03	.46	.96
5	.00	.00	.01	.00	.00	.00	.00	.00	.44	.03	.00	.00
6	.00	.00	.35	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.75	.00	.00
8	.00	.00	.00	.05	.00	.00	.54	.00	.00	.00	.00	.00
9	.00	.00	.00	.67	.00	.00	.00	.00	.00	.00	.00	.00
10	1.84	.00	.34	.92	.00	.00	.00	.00	.00	.00	.23	.00
11	1.68	1.25	.00	.00	.00	.26	.00	.00	.00	.92	.00	.00
12	.00	.00	.00	.00	1.21	.00	.00	.00	.00	.22	.00	.00
13	.22	.00	.10	.00	.24	.00	.27	.55	.00	.60	.00	.00
14	.00	.00	.57	.00	.56	.00	.53	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.59	.00	.10	.00	.00	.00
16	.00	.00	.00	.00	.00	1.68	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.10	.01	.26	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.11	.00	.00	.00	.24	.00	.00	1.26
19	.07	.00	.09	---	.00	.00	.00	.00	.01	.03	.00	.23
20	.49	.00	.06	---	.00	1.60	.00	.00	.00	.00	.00	.00
21	.01	.02	.76	---	.00	.00	.00	.08	.00	.02	.00	.04
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.81
23	.00	.00	.00	---	.00	.00	.00	.09	.00	.34	.00	.70
24	.00	.01	.00	---	.00	.00	.52	.09	.00	.07	.18	.00
25	.00	.02	.00	---	.00	.00	.12	.02	.00	.65	.00	.41
26	.00	.94	.00	---	.00	.00	.02	.00	.16	.00	.00	.00
27	.00	.00	.00	---	.30	.47	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.41	.16	.16	.00	.00	.00
29	.00	.00	.00	---	.00	.01	.03	.09	.21	.00	.00	.00
30	.00	.00	.00	---	---	.04	.00	.00	.00	.00	.14	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.44	.07	---
TOTAL	4.80	2.78	2.28	3.32	2.52	4.11	3.72	1.94	1.42	6.10	2.48	5.46

350903081004545 CRN45

LOCATION.--Lat 35°09'03", long 81°00'45", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.99	.47
2	.00	1.17	.00	.00	.00	.00	.23	.00	.00	.00	.07	.35
3	.00	.00	.00	.00	.00	.00	.18	.13	.00	.00	.55	.94
4	.25	.00	.00	.26	.00	.30	.01	.00	.07	.00	.06	.05
5	.00	.00	.01	.00	.00	.01	.00	.00	.40	.00	.00	.00
6	.01	.00	.05	.00	.00	.00	.00	.00	.00	.08	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
8	.00	.00	.00	.00	.00	.00	.92	.00	.00	.00	.16	.00
9	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00	.00	.00
10	3.37	.00	.28	.77	.00	.00	.00	.00	.00	.00	.63	.00
11	1.39	.00	.00	.00	.20	.17	.00	.00	.00	1.28	.00	.00
12	.02	.00	.00	.00	.90	.00	.00	.00	.00	.08	.00	.00
13	.24	.01	.14	.00	.30	.00	.55	.20	.00	.02	.00	.00
14	.00	.00	.44	.00	.74	.00	.81	.00	.00	.01	.00	.00
15	.00	.00	.00	.00	.01	.00	.63	.00	1.31	.00	.00	.00
16	.00	.00	.00	.00	.00	.68	.01	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.18	.00	.56	.00	.05	.00	.00	.00
18	.00	.00	.00	---	.13	.00	.00	.00	.12	.00	.08	1.42
19	.03	.00	.08	---	.00	.00	.00	.00	.00	.06	.00	.08
20	.60	.00	.06	---	.00	2.03	.00	.00	.00	.01	.04	.00
21	.01	.00	.51	---	.00	.00	.00	.00	.00	.16	.03	.10
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	1.47
23	.00	.00	.00	---	.00	.00	.00	.06	.00	1.10	.00	1.35
24	.00	.00	.00	---	.00	.00	.48	.14	.00	.03	---	.00
25	.00	.04	.00	---	.00	.00	.17	.08	.00	.12	---	.34
26	.00	.82	.00	---	.00	.00	.05	.00	.07	.00	---	.00
27	.00	.00	.00	---	.33	.61	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.22	.05	1.15	.00	.00	.00
29	.00	.00	.00	---	.00	.01	.61	.00	.37	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.13	.00
31	.00	---	.00	.00	---	.11	---	.00	---	.00	.10	---
TOTAL	5.92	2.04	1.58	3.20	2.79	3.93	5.43	0.66	3.55	2.95	---	6.63

351229080460245 CRN47

LOCATION.--Lat 35°12'29", long 80°46'02", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.16	.07
2	.00	.61	.00	.00	.00	.00	.18	.96	.00	.00	.96	.81
3	.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.99	.09
4	.17	.00	.00	.19	.00	.24	.01	.00	.25	.00	.16	.01
5	.01	.00	.00	.00	.00	.00	.00	.00	.45	.00	.00	.01
6	.00	.00	.04	.00	.00	.00	.00	.00	.00	.04	.00	.01
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41	.00	.00
8	.00	.00	.00	.02	.00	.00	.81	.00	.00	.00	.00	.00
9	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00
10	2.32	.00	.20	.78	.00	.00	.00	.18	.00	.01	.85	.00
11	1.74	.16	.00	.00	.07	.16	.00	.01	.00	.44	.00	.00
12	.00	.00	.00	.00	.97	.00	.00	.00	.00	2.31	.00	.00
13	.63	.00	.12	.00	.19	.00	1.12	.22	.00	.02	.00	.00
14	.01	.00	.60	.00	.65	.00	.38	.00	.35	.74	.00	.00
15	.00	.00	.00	.00	.00	.00	.93	.00	.09	.00	.00	.00
16	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.17	.00	.14	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.13	.00	.00	.00	.06	.00	.25	.64
19	.21	.00	.08	---	.00	.00	.00	.00	.00	.36	.00	.10
20	.66	.00	.07	---	.00	1.53	.00	.00	.00	.00	.00	.00
21	.01	.03	.34	---	.00	.00	.00	.18	.00	.04	.00	.02
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	1.09
23	.00	.00	.00	---	.00	.00	.00	.02	.00	.32	.00	2.81
24	.00	.00	.00	---	.00	.00	.51	.08	.00	.03	.32	.01
25	.00	.01	.00	---	.00	.00	.53	.04	.00	.08	.02	.62
26	.00	1.02	.00	---	.00	.00	.01	.00	.00	.00	.00	.00
27	.00	.00	.00	---	.45	.28	.00	.00	.14	.00	.00	.00
28	.00	.00	.00	---	.01	.00	.49	.02	.51	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.01	.31	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.16	.00
31	.00	---	.00	.00	---	.02	---	.00	---	.00	.03	---
TOTAL	5.76	1.83	1.45	2.96	2.64	2.75	5.26	1.72	2.16	4.80	4.90	6.29

350637080475645 CRN48

LOCATION.--Lat 35°06'37", long 80°47'56", 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.11	.03
2	.00	.48	.00	.00	.02	.00	.16	.00	.00	.00	.15	1.50
3	.00	.00	.00	.00	.00	.00	.05	.01	.00	.00	.15	.49
4	.17	.00	.00	.13	.00	.25	.02	.00	.61	.00	.10	.24
5	.00	.00	.02	.00	.00	.01	.00	.00	1.90	.00	.00	.00
6	.00	.00	.02	.00	.00	.00	.00	.00	.00	.03	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.02
8	.00	.00	.00	.00	.00	.00	.53	.00	.00	.00	.00	.00
9	.00	.00	.00	.23	.00	.00	.00	.00	.00	.00	.00	.00
10	2.70	.00	.29	.78	.00	.02	.00	.00	.00	.00	.93	.00
11	1.24	.29	.00	.00	.03	.18	.00	.00	.00	.86	.00	.00
12	.00	.00	.00	.00	1.02	.00	.00	.00	.00	.46	.00	.00
13	.25	.00	.14	.00	.14	.00	.24	.13	.00	.00	.00	.00
14	.00	.00	.46	.00	.76	.00	.43	.00	.06	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.44	.00	.04	.00	.00	.00
16	.00	.00	.00	.00	.00	.58	.00	.00	.01	.00	.00	.00
17	.00	.00	.00	.00	.14	.00	.22	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.18	.00	.00	.00	.06	.00	.01	.86
19	.28	.00	.12	---	.00	.00	.00	.00	.00	.30	.00	.06
20	.78	.00	.05	---	.00	1.29	.00	.00	.00	.00	.00	.00
21	.00	.01	.27	---	.00	.00	.00	.04	.00	.51	.00	.09
22	.00	.01	.01	---	.00	.00	.00	.01	.00	.55	.00	.98
23	.00	.00	.00	---	.00	.00	.00	.05	.00	.34	.00	1.60
24	.00	.00	.00	---	.00	.00	.58	.07	.00	.00	.06	.00
25	.00	.00	.00	---	.00	.00	.23	.09	.00	.01	.17	.82
26	.00	.62	.00	---	.00	.00	.01	.00	.00	.01	.06	.00
27	.00	.00	.00	---	.31	.43	.00	.00	.63	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.17	.10	.49	.00	.00	.00
29	.00	.00	.00	---	.00	.00	.00	.00	.34	.00	.00	.00
30	.00	.00	.00	---	---	.01	.00	.00	.00	.00	.26	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.57	---
TOTAL	5.42	1.41	1.38	2.82	2.60	2.81	3.08	0.50	4.14	3.31	3.57	6.69

352224080500345 CRN49

LOCATION.--Lat 35°22'24", long 80°50'03", Mecklenburg County, Hydrologic Unit 03050103, 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 site.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.28	.27
2	.00	.49	.00	.00	.00	.00	.20	.61	.00	.00	.02	---
3	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.96	---
4	.26	.00	.00	.44	.00	.04	.02	.00	.07	.04	.56	---
5	.01	.00	.01	.00	.00	.01	.00	.00	.14	.03	.00	---
6	.00	.00	.16	.00	.00	.00	.00	.00	.00	.01	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.41	.00	.00
8	.00	.00	.00	.04	.00	.00	.46	.00	.00	.00	.00	.00
9	.00	.00	.00	.45	.00	.00	.00	.00	.00	.00	.00	.00
10	2.08	.00	.28	.80	.00	.00	.00	.00	.00	.00	---	.00
11	1.39	.73	.00	.00	.00	.21	.00	.00	.00	1.77	.00	.00
12	.00	.00	.00	.00	1.14	.00	.00	.00	.00	.45	.00	.00
13	.11	.00	.09	.00	.24	.00	.22	.46	.00	.09	---	.00
14	.00	.00	.41	.00	.58	.00	.56	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.67	.00	.19	.01	.00	.00
16	.00	.00	.00	.00	.00	2.09	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.10	.00	.43	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.09	.00	.00	.00	.06	.00	---	.97
19	.06	.00	.08	---	.00	.00	.00	.00	.00	.62	.00	.13
20	.56	.00	.07	---	.00	1.09	.00	.00	.00	.00	.00	.00
21	.00	.02	.59	---	.00	.01	.00	.03	.00	.02	.00	.05
22	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00	.89
23	.00	.00	.01	---	.00	.00	.00	.07	.00	.17	.00	.84
24	.00	.00	.00	---	.00	.00	.42	.06	.00	.05	---	.00
25	.00	.00	.00	---	.00	.00	.17	.02	.29	.63	.00	.20
26	.00	---	.00	---	.00	.00	.01	.00	.17	.00	.00	.00
27	.00	.00	.00	---	.22	.55	.00	.00	.01	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.31	.03	.47	.00	.00	.00
29	.00	.00	.00	---	.00	.01	.01	.08	.09	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	---	.00
31	.00	---	.00	.00	---	.01	---	.00	---	.12	.13	---
TOTAL	4.47	---	1.70	2.85	2.38	4.02	3.60	1.36	1.49	6.42	---	---

351503080510145 CRN50

LOCATION.--Lat 35°15'03", long 80°51'01", Mecklenburg County, Hydrologic Unit 03050103, Oaklawn School of Math and Science, Oaklawn Ave, Charlotte, NC.

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

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	.29
2	.00	.42	.00	.00	.00	.00	.21	.01	.00	.00	.02	.14
3	.00	.00	.00	.00	.00	.00	.19	.00	.05	.00	1.26	.60
4	.19	.00	.00	.28	.00	.14	.02	.00	.10	.01	.10	.20
5	.00	.00	.00	.00	.00	.00	.00	.00	.39	.00	.00	.00
6	.00	.00	.04	.00	.00	.00	.00	.00	.00	.06	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.05	.00	.00
8	.00	.00	.00	.03	.00	.00	1.04	.00	.00	.00	.01	.00
9	.00	.00	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00
10	2.48	.00	.29	.72	.00	.00	.00	.11	.00	.00	.33	.00
11	1.56	.02	.00	.00	.01	.35	.00	.00	.00	.13	.01	.00
12	.00	.00	.00	.00	.72	.00	.00	.00	.00	2.00	.00	.00
13	.18	.00	.11	.00	.23	.00	.83	.12	.00	.01	.00	.00
14	.00	.00	.38	.00	.69	.00	.56	.00	.00	.38	.00	.00
15	.00	.00	.00	.00	.00	.00	.62	.00	.17	.00	.00	.00
16	.00	.00	.00	.00	.00	1.31	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.12	.00	.06	.00	.00	.00	.00	.00
18	.00	.00	.00	---	.18	.00	.00	.00	.56	.00	1.00	.90
19	.06	.00	.08	---	.00	.00	.00	.00	.00	.15	.00	.11
20	.60	.00	.03	---	.00	1.25	.00	.00	.00	.00	.00	.00
21	.00	.01	.39	---	.00	.01	.00	.00	.00	.00	.00	.06
22	.00	.00	.01	---	.00	.00	.00	.00	.00	.00	.00	1.04
23	.00	.00	.00	---	.00	.00	.00	.04	.00	.31	.00	1.06
24	.00	.00	.00	---	.00	.00	.42	.10	.00	.06	.29	.00
25	.00	.00	.00	---	.00	.00	.11	.05	.00	.14	.05	.49
26	.00	.80	.00	---	.00	.00	.01	.00	.14	.02	.03	.00
27	.00	.00	.00	---	.33	.31	.00	.00	.02	.00	.00	.00
28	.00	.00	.00	---	.00	.00	.41	.04	.34	.14	.00	.00
29	.00	.00	.00	---	.00	.00	.01	.01	.17	.00	.00	.00
30	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.16	.00
31	.00	---	.00	.00	---	.03	---	.00	---	.01	.33	---
TOTAL	5.07	1.25	1.33	2.57	2.28	3.40	4.49	0.48	1.94	4.47	4.12	4.89

352310080424845 CRN51

LOCATION.--Lat 35°23'10", long 80°42'48", Cabarrus County, Hydrologic Unit 03040105, Concord Regional Airport, Aviation Boulevard.

PERIOD OF RECORD.--June 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JUNE 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.67	.00
2	---	---	---	---	---	---	---	---	.00	.00	.05	1.97
3	---	---	---	---	---	---	---	---	.00	.00	.82	.60
4	---	---	---	---	---	---	---	---	.12	.09	.60	.32
5	---	---	---	---	---	---	---	---	.33	.01	.00	.00
6	---	---	---	---	---	---	---	---	.00	.01	.00	.00
7	---	---	---	---	---	---	---	---	.00	.19	.00	.00
8	---	---	---	---	---	---	---	---	.00	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.00
10	---	---	---	---	---	---	---	---	.00	.00	.56	.00
11	---	---	---	---	---	---	---	---	.00	.37	.00	.00
12	---	---	---	---	---	---	---	---	.00	.81	.00	.00
13	---	---	---	---	---	---	---	---	.00	.21	.00	.00
14	---	---	---	---	---	---	---	---	.00	.01	.00	.00
15	---	---	---	---	---	---	---	---	.05	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.17	.00	.16	---
19	---	---	---	---	---	---	---	---	.00	.20	.01	---
20	---	---	---	---	---	---	---	---	.00	.01	.00	.00
21	---	---	---	---	---	---	---	---	.00	.00	.00	---
22	---	---	---	---	---	---	---	---	.00	.00	.00	---
23	---	---	---	---	---	---	---	---	.00	.00	.00	---
24	---	---	---	---	---	---	---	---	.00	.00	.11	.00
25	---	---	---	---	---	---	---	---	.78	.00	.00	.20
26	---	---	---	---	---	---	---	---	.00	.00	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	.00	.00
28	---	---	---	---	---	---	---	---	.26	.00	.00	.00
29	---	---	---	---	---	---	---	---	.10	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.01	.00	---
TOTAL	---	---	---	---	---	---	---	---	1.81	1.92	2.98	---

351753081011745 CRN52

LOCATION.--Lat 35°17'53", long 81°01'17", Gaston County, Hydrologic Unit 03050103, Ida Rankin Elementary School, Central Avenue.

PERIOD OF RECORD.--May 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD MAY 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.41	.96
2	---	---	---	---	---	---	---	---	.00	.00	.09	.36
3	---	---	---	---	---	---	---	---	.00	.00	.06	.56
4	---	---	---	---	---	---	---	.00	.15	.00	.05	.07
5	---	---	---	---	---	---	---	.00	.25	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.11	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.04	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.34	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.30	.00	.00	.08	.00
11	---	---	---	---	---	---	---	.01	.00	.98	.00	.00
12	---	---	---	---	---	---	---	.00	.00	.54	.00	.00
13	---	---	---	---	---	---	---	.44	.00	.01	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.03	.00	.00
15	---	---	---	---	---	---	---	.00	.24	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.01	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.50	.00	.37	1.90
19	---	---	---	---	---	---	---	.00	.00	.02	.00	.34
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.01	.04	.00	.00	.27
22	---	---	---	---	---	---	---	.00	.08	.05	.00	.66
23	---	---	---	---	---	---	---	.02	.00	.09	.00	.90
24	---	---	---	---	---	---	---	.14	.00	.20	.21	.19
25	---	---	---	---	---	---	---	.01	.00	.45	.00	.20
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.11	.13	.00	.00
28	---	---	---	---	---	---	---	.02	.49	.00	.00	.00
29	---	---	---	---	---	---	---	.03	.06	.00	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.14	.00
31	---	---	---	---	---	---	---	.00	---	.19	1.26	---
TOTAL	---	---	---	---	---	---	---	---	1.93	2.84	3.01	6.41

351412080541245 CRN53

LOCATION.--Lat 35°14'12", long 80°54'12", Mecklenburg County, Hydrologic Unit 03050103, Harding University High School, Alleghany Street.

PERIOD OF RECORD.--May 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD MAY 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.44	.22
2	---	---	---	---	---	---	---	---	.00	.00	.03	.16
3	---	---	---	---	---	---	---	---	.00	.00	.03	1.04
4	---	---	---	---	---	---	---	.00	.14	.00	.75	.02
5	---	---	---	---	---	---	---	.00	.34	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.01	.10	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.47	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.10	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.51	.00	.00	.48	.00
11	---	---	---	---	---	---	---	.01	.00	.08	.00	.00
12	---	---	---	---	---	---	---	.00	.00	1.37	.00	.00
13	---	---	---	---	---	---	---	.14	.00	.00	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.02	.00	.00
15	---	---	---	---	---	---	---	.00	.44	.01	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.88	.00	.38	1.32
19	---	---	---	---	---	---	---	.00	.00	.14	.00	.10
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.01	.00	.04
22	---	---	---	---	---	---	---	.00	.00	.00	.00	1.36
23	---	---	---	---	---	---	---	.01	.00	.09	.00	.84
24	---	---	---	---	---	---	---	.11	.00	.17	.27	.00
25	---	---	---	---	---	---	---	.05	.00	.38	.12	.16
26	---	---	---	---	---	---	---	.00	.27	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.06	.00	.00	.00
28	---	---	---	---	---	---	---	.05	.46	.03	.00	.00
29	---	---	---	---	---	---	---	.02	.26	.00	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.15	.00
31	---	---	---	---	---	---	---	.00	---	.13	.29	---
TOTAL	---	---	---	---	---	---	---	---	2.86	3.00	3.04	5.26

351741080475045 CRN54

LOCATION.--Lat 35°17'41", long 80°47'50", Mecklenburg County, Hydrologic Unit 03050103, Derita Elementary School, West Sugar Creek Road.

PERIOD OF RECORD.--May 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD MAY 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.47	.49
2	---	---	---	---	---	---	---	---	.00	.00	.07	.34
3	---	---	---	---	---	---	---	---	.00	.00	.14	1.95
4	---	---	---	---	---	---	---	.00	.12	.01	1.84	.36
5	---	---	---	---	---	---	---	.00	.37	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.14	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.62	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.56	.00
11	---	---	---	---	---	---	---	.00	.00	.37	.00	.00
12	---	---	---	---	---	---	---	.00	.00	1.05	.00	.00
13	---	---	---	---	---	---	---	.25	.00	.01	.00	.00
14	---	---	---	---	---	---	---	.01	.00	.05	.00	.00
15	---	---	---	---	---	---	---	.00	.08	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.53	.00	1.26	---
19	---	---	---	---	---	---	---	.00	.00	.22	.00	---
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.01	.00	.00	.00	---
22	---	---	---	---	---	---	---	.00	.04	.00	.00	---
23	---	---	---	---	---	---	---	.00	.00	.22	.00	---
24	---	---	---	---	---	---	---	.11	.00	.17	.49	.00
25	---	---	---	---	---	---	---	.04	.00	.16	.00	.41
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.03	.00	.00	.00
28	---	---	---	---	---	---	---	.04	1.27	.16	.00	.00
29	---	---	---	---	---	---	---	.03	.14	.00	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.15	.00
31	---	---	---	---	---	---	---	.00	---	.10	.03	---
TOTAL	---	---	---	---	---	---	---	---	2.58	3.28	5.01	---

350324080551845 CRN55

LOCATION.--Lat 35°03'24", long 80°55'18", York County, South Carolina, Hydrologic Unit 03050103, private residence, Hammond Road.

PERIOD OF RECORD.--June 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JUNE 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.00	2.03	.06
2	---	---	---	---	---	---	---	---	---	.00	---	.59
3	---	---	---	---	---	---	---	---	---	.00	.05	.17
4	---	---	---	---	---	---	---	---	---	.00	.05	.03
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.08	.00	.00
7	---	---	---	---	---	---	---	---	---	.33	.00	.06
8	---	---	---	---	---	---	---	---	---	.00	1.04	.00
9	---	---	---	---	---	---	---	---	---	.00	.00	.00
10	---	---	---	---	---	---	---	---	---	.00	.57	.00
11	---	---	---	---	---	---	---	---	---	1.22	.12	.00
12	---	---	---	---	---	---	---	---	---	.13	.00	.00
13	---	---	---	---	---	---	---	---	---	.02	.00	.00
14	---	---	---	---	---	---	---	---	---	.11	.00	.00
15	---	---	---	---	---	---	---	---	---	.00	.00	.00
16	---	---	---	---	---	---	---	---	---	.00	.00	.00
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	---	.00	---	.46
19	---	---	---	---	---	---	---	---	---	.00	.00	.08
20	---	---	---	---	---	---	---	---	---	.00	.01	.00
21	---	---	---	---	---	---	---	---	.00	.48	.02	.07
22	---	---	---	---	---	---	---	---	.00	.03	.00	.02
23	---	---	---	---	---	---	---	---	.00	.44	.00	.03
24	---	---	---	---	---	---	---	---	.00	.01	.18	.01
25	---	---	---	---	---	---	---	---	.00	.02	.41	.01
26	---	---	---	---	---	---	---	---	.00	.00	.32	.02
27	---	---	---	---	---	---	---	---	.11	.00	.00	.00
28	---	---	---	---	---	---	---	---	.26	.00	.00	.01
29	---	---	---	---	---	---	---	---	.40	.02	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.32	.00
31	---	---	---	---	---	---	---	---	---	.06	.05	---
TOTAL	---	---	---	---	---	---	---	---	---	2.95	---	1.62

350635080513245 CRN56

LOCATION.--Lat 35°06'35", long 80°51'32", Mecklenburg County, Hydrologic Unit 03050103, South Mecklenburg High School, Park Road.

PERIOD OF RECORD.--May 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD MAY 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	---	.04
2	---	---	---	---	---	---	---	---	.00	.00	---	.44
3	---	---	---	---	---	---	---	---	.00	.00	---	.53
4	---	---	---	---	---	---	---	.00	.61	.00	---	.00
5	---	---	---	---	---	---	---	.00	2.22	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.15	.00	.01
8	---	---	---	---	---	---	---	.00	.00	.00	.27	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.64	.00
11	---	---	---	---	---	---	---	.00	.00	.57	.00	.00
12	---	---	---	---	---	---	---	.00	.00	.99	.00	.00
13	---	---	---	---	---	---	---	.16	.00	.01	.00	.00
14	---	---	---	---	---	---	---	.00	.03	.00	.00	.00
15	---	---	---	---	---	---	---	.00	.04	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.01	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.04	.00	.00	.93
19	---	---	---	---	---	---	---	.00	.00	.14	.00	.07
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.07	.00	.08
22	---	---	---	---	---	---	---	.00	.00	.00	.00	.86
23	---	---	---	---	---	---	---	.02	.00	---	.00	.98
24	---	---	---	---	---	---	---	.10	.00	---	.06	.00
25	---	---	---	---	---	---	---	.10	.00	---	.26	.88
26	---	---	---	---	---	---	---	.00	.00	.00	1.22	.01
27	---	---	---	---	---	---	---	.00	.10	.00	.00	.00
28	---	---	---	---	---	---	---	.11	.86	.00	.00	.00
29	---	---	---	---	---	---	---	.00	.28	.00	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.22	.00
31	---	---	---	---	---	---	---	.00	---	---	.10	---
TOTAL	---	---	---	---	---	---	---	---	4.19	---	---	4.83

351109080412145 CRN57

LOCATION.--Lat 35°11'09", long 80°41'21", Mecklenburg County, Hydrologic Unit 03050103, Lebanon Road Elementary School, Lebanon Road.

PERIOD OF RECORD.--April 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD APRIL 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	.00	.15	1.06	.82
2	---	---	---	---	---	---	---	.06	.00	.00	.06	.54
3	---	---	---	---	---	---	---	.01	.00	.00	.30	.11
4	---	---	---	---	---	---	---	.00	.46	.00	.21	.28
5	---	---	---	---	---	---	---	.00	1.42	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.01	.00	.01
7	---	---	---	---	---	---	---	.00	.00	.08	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.88	.00	.00
9	---	---	---	---	---	---	---	.00	.00	.02	.00	.00
10	---	---	---	---	---	---	---	.09	.00	.00	.78	.00
11	---	---	---	---	---	---	---	.00	.00	1.18	.00	.00
12	---	---	---	---	---	---	---	.00	.00	.56	.00	.00
13	---	---	---	---	---	---	---	.15	.00	.01	.00	.00
14	---	---	---	---	---	---	---	.00	.01	.28	.00	.00
15	---	---	---	---	---	---	---	.00	.01	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	---	.00	.04	1.10
19	---	---	---	---	---	---	---	.00	.00	.75	.00	.09
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.21	.00	.00	.00	.04
22	---	---	---	---	---	---	---	.01	.00	.00	.00	1.07
23	---	---	---	---	---	---	---	.00	.00	.23	.00	1.61
24	---	---	---	---	---	---	---	.08	.00	.08	.22	.00
25	---	---	---	---	---	---	---	.07	.00	.02	.03	.79
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	.26	.04	.29	.00	.00	.00
29	---	---	---	---	---	---	.00	.01	.31	.00	.00	.00
30	---	---	---	---	---	---	.00	.00	.00	.00	.24	.00
31	---	---	---	---	---	---	---	.00	---	.00	.04	---
TOTAL	---	---	---	---	---	---	---	0.73	---	4.25	2.98	6.46

351441080481545 CRN58

LOCATION.--Lat 35°14'41", long 80°48'15", Mecklenburg County, Hydrologic Unit 03050103, Highland Elementary School, Clemson Avenue.

PERIOD OF RECORD.--June 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JUNE 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	1.43	.20
2	---	---	---	---	---	---	---	---	.00	.00	.17	.32
3	---	---	---	---	---	---	---	---	.06	.00	1.18	.57
4	---	---	---	---	---	---	---	---	.08	.06	.16	1.32
5	---	---	---	---	---	---	---	---	.33	.01	.00	.00
6	---	---	---	---	---	---	---	---	.00	.04	.00	.01
7	---	---	---	---	---	---	---	---	.00	.51	.00	.00
8	---	---	---	---	---	---	---	---	.00	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.00
10	---	---	---	---	---	---	---	---	.00	.08	.92	.00
11	---	---	---	---	---	---	---	---	.00	.14	.00	.00
12	---	---	---	---	---	---	---	---	.00	2.15	.00	.00
13	---	---	---	---	---	---	---	---	.00	.01	.00	.00
14	---	---	---	---	---	---	---	---	.30	.98	.00	.00
15	---	---	---	---	---	---	---	---	.03	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.28	.00	.92	.94
19	---	---	---	---	---	---	---	---	.00	.21	.00	.11
20	---	---	---	---	---	---	---	---	.00	.00	.00	.00
21	---	---	---	---	---	---	---	---	.00	.00	.00	.05
22	---	---	---	---	---	---	---	---	.00	.00	.00	.89
23	---	---	---	---	---	---	---	---	.00	.36	.00	2.20
24	---	---	---	---	---	---	---	---	.00	.05	.27	.00
25	---	---	---	---	---	---	---	---	.00	.04	.07	.49
26	---	---	---	---	---	---	---	---	.00	.01	.00	.00
27	---	---	---	---	---	---	---	---	.02	.00	.00	.00
28	---	---	---	---	---	---	---	---	.72	.01	.00	.00
29	---	---	---	---	---	---	---	---	.20	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.18	.00
31	---	---	---	---	---	---	---	---	---	.10	.14	---
TOTAL	---	---	---	---	---	---	---	---	2.02	4.76	5.44	7.10

350624081023345 CRN59

LOCATION.--Lat 35°06'24", long 81°02'33", York County, South Carolina, Hydrologic Unit 03050103, YMCA Camp Thunderbird, Thunderbird Lane.

PERIOD OF RECORD.--June 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD JUNE 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.15	---
2	---	---	---	---	---	---	---	---	.00	.00	.07	---
3	---	---	---	---	---	---	---	---	.00	.00	.32	---
4	---	---	---	---	---	---	---	---	.27	.00	.04	---
5	---	---	---	---	---	---	---	---	.91	.00	.00	---
6	---	---	---	---	---	---	---	---	.00	.01	.00	.00
7	---	---	---	---	---	---	---	---	.00	.07	.00	---
8	---	---	---	---	---	---	---	---	.00	.00	.33	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.00
10	---	---	---	---	---	---	---	---	.00	.00	.38	.00
11	---	---	---	---	---	---	---	---	.00	1.00	.01	.00
12	---	---	---	---	---	---	---	---	.00	.14	.00	.00
13	---	---	---	---	---	---	---	---	.00	.01	.00	.00
14	---	---	---	---	---	---	---	---	.03	.07	.00	.00
15	---	---	---	---	---	---	---	---	1.13	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.28	.00	.27	1.48
19	---	---	---	---	---	---	---	---	.00	.08	.00	.05
20	---	---	---	---	---	---	---	---	.00	.00	.03	.00
21	---	---	---	---	---	---	---	---	.00	.49	.03	.11
22	---	---	---	---	---	---	---	---	.00	.00	.00	1.67
23	---	---	---	---	---	---	---	---	.00	1.07	.00	1.10
24	---	---	---	---	---	---	---	---	.00	.08	.07	.00
25	---	---	---	---	---	---	---	---	.00	.15	---	.47
26	---	---	---	---	---	---	---	---	.06	.00	---	.00
27	---	---	---	---	---	---	---	---	.16	.00	.00	.00
28	---	---	---	---	---	---	---	---	.91	.00	.00	.00
29	---	---	---	---	---	---	---	---	.54	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	---	.00
31	---	---	---	---	---	---	---	---	---	.00	---	---
TOTAL	---	---	---	---	---	---	---	---	4.29	3.17	---	---

351104080521845 CRN60

LOCATION.--Lat 35°11'04", long 80°52'18", Mecklenburg County, Hydrologic Unit 03050103, Collinswood Elementary School, Applegate Road.

PERIOD OF RECORD.--April 2000 to September 2000.

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

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation may not be reflected in daily totals but are included in monthly totals.

PRECIPITATION, TOTAL, INCHES, FOR PERIOD APRIL 2000 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	.00	.00	1.00	.13
2	---	---	---	---	---	---	---	.00	.00	.00	.03	.31
3	---	---	---	---	---	---	---	.01	.00	.00	.15	.37
4	---	---	---	---	---	---	---	.00	.32	.00	.10	.00
5	---	---	---	---	---	---	---	.00	.51	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.01	.09	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.06	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.01	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.72	.00	.00	.29	.00
11	---	---	---	---	---	---	---	.01	.00	1.27	.00	.00
12	---	---	---	---	---	---	---	.00	.00	1.10	.00	.00
13	---	---	---	---	---	---	---	.15	.00	.03	.00	.00
14	---	---	---	---	---	---	---	.00	.33	.00	.00	.00
15	---	---	---	---	---	---	---	.00	.13	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.16	.00	.12	1.17
19	---	---	---	---	---	---	---	.00	.00	.43	.00	.10
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.13	.00	.04
22	---	---	---	---	---	---	---	.00	.00	.00	.00	.86
23	---	---	---	---	---	---	---	.03	.00	.33	.00	1.01
24	---	---	---	---	---	---	---	.12	.00	.04	.31	.00
25	---	---	---	---	---	---	---	.04	.00	.03	.44	.42
26	---	---	---	---	---	---	---	.00	.04	.00	.62	.00
27	---	---	---	---	---	---	---	.00	.03	.00	.00	.00
28	---	---	---	---	---	---	.23	.03	1.31	.00	.00	.00
29	---	---	---	---	---	---	.01	.00	.42	.00	.00	.00
30	---	---	---	---	---	---	.00	.00	.00	.00	.13	.00
31	---	---	---	---	---	---	---	.00	---	.04	.01	---
TOTAL	---	---	---	---	---	---	---	1.11	3.26	3.55	3.21	4.41

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

02098197 B. EVERETT JORDAN LAKE

LOCATION.--Lat 35°39'17", long 79°04'02", Chatham County, Hydrologic Unit 03030002, at B. Everett Jordan Dam on Haw River, 0.3 mi downstream of mouth of New Hope River, 2.5 mi north of Moncure, 4.2 mi upstream from mouth of Haw River, and 202.2 mi upstream from mouth of Cape Fear River.

DRAINAGE AREA.--1,689 mi^2.

PERIOD OF RECORD.--December 1972 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, water supply, low-flow augmentation, and recreation. Some storage was affected during construction and then operated temporarily as a "dry reservoir" January 1975 to August 1981. Reservoir began filling September 1981 and reached normal pool elevation, 216 ft, Feb. 4, 1982. Total capacity is 32,825,074,000 ft^3 at 240.0 ft, of which 23,454,011,000 ft^3 is controlled flood storage. (See station 02098198.)

02111391 W. KERR SCOTT RESERVOIR

LOCATION.--Lat 36°08'04", long 81°13'30", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

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

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

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1075.0 ft is 6,664,680,000 ft^3 of which 4,878,720,000 ft^3 is controlled flood storage.

COOPERATION.--Records furnished by Corps of Engineers. (See station 02129000.)

02122400 HIGH ROCK LAKE

LOCATION.--Lat 35°36'02", long 80°14'06", 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.--4,000 mi^2, approximately.

PERIOD OF RECORD.--November 1927 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Nov. 7, 1927. Total capacity is 11,090,000,000 ft^3. Usable capacity, 10,230,000,000 ft^3, is between 625 and 655 ft gage datum (top of gates).

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02122699 TUCKERTOWN RESERVOIR

LOCATION.--Lat 35°29'03", long 80°10'30", 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.--4,120 mi^2, approximately.

PERIOD OF RECORD--April 1962 to current year.

GAGE--Remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 ft^3. Usable capacity, 293,800,000 ft^3, is between 593 and 596 ft gage datum.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02122844 BADIN LAKE

LOCATION.--Lat 35°35'10", 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.--4,180 mi^2, approximately.

PERIOD OF RECORD.--December 1917 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, generally known as Narrows Reservoir, used for hydroelectric power development, was first put in operation July 12, 1917. Total capacity is 10,497,960,000 ft^3. Usable capacity, 5,616,584,000 ft^3, is between 510.00 and 541.10 ft.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

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.--4,600 mi^2, approximately.

PERIOD OF RECORD.--February 1928 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and float-tape gage at dam. Datum of gage is 38.67 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation during January 1928. Total capacity is 7,274,520,000 ft^3. Usable capacity, 5,927,040,000 ft^3, is between elevations 200.5 and 239.5 ft gage datum (top of gates).

COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

02128800 BLEWETT FALLS LAKE

LOCATION.--Lat 34°58'58", long 79°52'40", Richmond County, Hydrologic Unit 03040104, at Blewett Falls Dam on Pee Dee River, 1.2 mi upstream from Cartledge Creek, 6.5 mi northwest of Rockingham, and 195 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,830 mi^2, approximately.

PERIOD OF RECORD.--December 1929 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Self-synchronous motor, dial indicator, and staff gage at dam. Datum of gage is 39.08 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in use during 1911. Total capacity is 4,225,320,000 ft^3. Usable capacity, 1,850,000,000 ft^3, is between 120.0 and 139.0 ft gage datum (top of flashboards).

COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

02138519 LAKE JAMES

LOCATION.--Lat 35°44'36", long 81°50'22", Burke County, Hydrologic Unit 03050101, at Linville Dam at intake tower on Catawba River, 2.1 mi northeast of Bridgewater, and 279 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--380 mi^2, approximately.

PERIOD OF RECORD.--March 1920 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage with self-synchronous motor to indicator in powerhouse. Staff gage at Catawba River Dam is also read when lake elevation drops below 1,160 ft, 60 ft gage datum, and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, generally known as Bridgewater Reservoir, used for hydroelectric power development, was first put in operation May 5, 1919. The total capacity is 12,581,800,000 ft^3 at 100.0 ft gage datum (crest of spillway). Usable capacity, 7,943,700,000 ft^3, is between 65.0 and 100.0 ft gage datum.

COOPERATION.--Records furnished by Duke Power Co.

02141490 RHODHISS LAKE

LOCATION.--Lat 35°46'54", long 81°26'42", Caldwell County, Hydrologic Unit 03030101, at Rhodhiss Dam on Catawba River, 0.8 mi west of Rhodhiss, 1.8 mi south of Granite Falls, and 243 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,090 mi^2, approximately.

PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and reference point at dam. Datum of gage is 895.1 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Feb. 18, 1925. Total capacity is 3,188,592,000 ft^3. Usable capacity, 1,717,000,000 ft^3, is between elevations 85.0 and 100.0 ft gage datum (crest of spillway).

COOPERATION.--Records furnished by Duke Power Co.

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

02141961 LAKE HICKORY

LOCATION.--Lat 35°49'28", long 81°11'28", Alexander County, Hydrologic Unit 03050101, at Oxford Dam on Catawba River, 2 mi upstream from Lower Little River, 7 mi south of Taylorsville, and 226 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,310 mi^2, approximately.

PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage and indicator at dam. Datum of gage is 835.0 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, generally known as Oxford Reservoir, used for hydroelectric power development, was first put in operation Apr. 5, 1928. Total capacity is 5,552,985,000 ft^3. The usable capacity from Sept. 1, 1935, to Sept. 30, 1957, was considered to be 2,277,970,200 ft^3 between 85.0 and 100.0 ft gage datum (top of flood gates). Usable capacity from Apr. 30, 1928, to Aug. 31, 1935, Oct. 1, 1957, to Sept. 30, 1964, was considered to be 3,378,400,000 ft^3 between 75.0 and 100.0 ft gage datum (top of flood gates); and from Oct. 1, 1964, to present, is considered to be 2,277,800,000 ft^3 between 85.0 and 100.0 ft gage datum (top of flood gates).

COOPERATION.--Records furnished by Duke Power Co.

02142441 LOOKOUT SHOALS LAKE

LOCATION.--Lat 35°45'57", long 81°05'36", Catawba County, Hydrologic Unit 03050101, at Lookout Shoals Dam on Catawba River, 4 mi upstream from bridge on U.S. Highways 64 and 70, 4.2 mi north of Catawba, and 216 mi upstream from mouth of Wateree River.

DRAINAGE AREA.-- 1,450 mi^2, approximately.

PERIOD OF RECORD.--December 1915 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and staff gage at dam. Datum of gage is 738.1 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 2, 1915. Total capacity was originally 1,355,190,000 ft^3. Capacity has been reduced by silting. The usable capacity prior to October 1957 was considered to be 473,980,000 ft^3 and from October 1957 to Sept. 30, 1964, was considered to be 388,300,000 ft^3 between elevations 90.0 and 100.0 ft gage datum (crest of spillway). Usable capacity from Oct. 1, 1964, to present is considered to be 208,200,000 ft^3 between 95.0 and 100.0 ft gage datum (crest of spillway). Flood of July 16, 1916, washed out an earth dike.

COOPERATION.--Records furnished by Duke Power Co.

02142647 LAKE NORMAN

LOCATION.--Lat 35°26'05", long 80°57'28", Mecklenburg County, Hydrologic Unit 03050101, at Cowans Ford Dam on Catawba River, 0.8 mi upstream from Derr Creek, 7.8 mi southwest of Davidson, and 182 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,790 mi^2, approximately.

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

GAGE.--Float gage with transmitter to dial meter in control room. Datum of gage is 660 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, began filling in March 1962. Total capacity is 47,586,200,000 ft^3. Usable capacity, 26,910,400,000 ft^3, is between 75.0 and 100.0 ft gage datum (top of flood gates).

COOPERATION.--Records furnished by Duke Power Co.

02142676 MOUNTAIN ISLAND LAKE

LOCATION--Lat 35°20'03", long 80°59'12", Gaston County, Hydrologic Unit 03050101, at Mountain Island Dam on Catawba River, 1.5 mi downstream from bridge on State Highway 16, 3 mi northeast of Mount Holly, and 167 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,860 mi^2, approximately.

PERIOD OF RECORD.--December 1923 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and stage gage at dam. Datum of gage is 547.5 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 16, 1923. Total capacity is 2,495,988,000 ft^3. Usable capacity prior to October 1964 was considered to be 1,132,000,000 ft^3 between 90.0 and 100.0 ft gage datum (crest of spillway) and from October 1964 to present, 845,000,000 ft^3, is considered to be between 93.0 and 100.0 ft gage datum (crest of spillway).

COOPERATION.--Records furnished by Duke Power Co.

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

OTHER RESERVOIRS

The following smaller reservoirs in the South Atlantic Slope basin are described below. Records of contents are not published herein.

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 mi^2, approximately.

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 107,000,000 ft^3. Reservoir was first filled Mar. 1, 1957. (See station 02094500.)

02094117 LAKE BRANDT

LOCATION.--Lat 36°10'20", long 79°50'20", Guilford County, Hydrologic Unit 03030002, on Reedy Fork and Horsepen Creek near Greensboro.

DRAINAGE AREA.--70.0 mi^2, approximately.

REMARKS.--Total capacity is 294,000,000 ft^3. Dam was completed February 1923 and raised to present level 1959-60. Reservoir first filled to present level on Oct. 8, 1960. Lake is part of Greensboro's municipal water supply. (See station 02094500.)

02094305 LAKE TOWNSEND

LOCATION.--Lat 36°11'25", long 79°43'57", Guilford County, Hydrologic Unit 03030002, on Reedy Fork near Greensboro.

DRAINAGE AREA.--105 mi^2.

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 869,000,000 ft^3. Dam was completed Oct. 18, 1968, and reservoir was first filled on Aug. 17, 1969. (See station 02094500.)

02096003 LAKE BURLINGTON

LOCATION.--Lat 36°10'25", long 79°24'53", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--44 mi^2, approximately.

REMARKS.--Lake is part of Burlington's municipal water supply. Prior to October 1971 published as "Stony Creek Reservoir." Total capacity is 427,800,000 ft^3. Dam completed August 1960 and reservoir first filled Jan. 28, 1961. (See station 02096500.)

02096432 STONY CREEK RESERVOIR

LOCATION.--Lat 36°07'37", long 79°24'20", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--95.0 mi^2, approximately.

REMARKS.--Lake is part of Burlington's water supply. Prior to October 1971 published as "Lake Burlington." Total capacity is 64,900,000 ft^3. Dam completed and reservoir filled in 1928. (See station 02096500.)

02098495 OAK HOLLOW RESERVOIR

LOCATION.--Lat 36°00'42", long 79°59'11", Guilford County, Hydrologic Unit 03030003, on West Fork Deep River and 1.8 mi southwest of Deep River.

DRAINAGE AREA.--32 mi^2, approximately.

REMARKS.--Lake is part of High Point's municipal water supply. Total capacity is 468,000,000 ft^3. Dead storage (nonwithdrawal) is minor. Total surface area, about 725 acres. Dam completed and filling began in May 1970. Reservoir first filled Dec. 24, 1970. (See station 02099500.)

02099096 HIGH POINT MUNICIPAL LAKE

LOCATION.--Lat 35°59'43", long 79°56'42", Guilford County, Hydrologic Unit 03030003, on Deep River near High Point, High Point's municipal water supply.

DRAINAGE AREA.--61.4 mi^2.

REMARKS.--Total capacity is 220,588,000 ft^3. Dam completed in 1926 and reservoir first filled in 1927. (See station 02099500)

02102178 BUCKHORN RESERVOIR

LOCATION.--Lat 35°31'35", long 78°59'22", Chatham County, Hydrologic Unit 03030004, on Cape Fear River near Corinth.

DRAINAGE AREA.--3,200 mi^2, approximately.

REMARKS.-- Usable capacity is 69,700,000 ft^3. Completed and filled in 1908. Hydroelectric power operation stopped Dec. 31, 1962.

02102190 SHEARON HARRIS MAIN RESERVOIR

LOCATION.--Lat 35°34'00", long 78°57'55", Chatham County, Hydrologic Unit 03030004, on Buckhorn Creek near Corinth.

DRAINAGE AREA.--71 mi^2.

REMARKS.--Lake is a cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is 3,136,320,000 ft^3 with a surface area of 4,150 acres at a normal elevation of 220 ft above sea level. Dam was completed Dec. 23, 1981, and filling began Dec. 1, 1980. (See station 02102192.)

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

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 mi^2.

REMARKS.--Total capacity is 284,100,000 ft^3 of which 281,400,000 ft^3 is usable. Dam completed Aug. 8, 1957, and reservoir first filled Nov. 23, 1957. Lexington and Thomasville's municipal water supply.

02184122 LAKE TOXAWAY

LOCATION.--Lat 35°07'27", long 82°55'56", Transylvania County, Hydrologic Unit 03060101, on Toxaway River at town of Lake Toxaway.

DRAINAGE AREA.--7.79 mi^2.

REMARKS.--A recreation lake. Total surface area is about 640 acres. Lake reached spillway elevation September 1961.

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	223.30	14,564	--	1,028.78	1,734.11	--
Oct. 31	216.50	9,685	-4,879	1,028.58	1,722.53	-12
Nov. 30	217.40	10,256	+571	1,030.14	1,802.09	+80
Dec. 31	216.68	9,798	-458	1,030.03	1,792.77	-9
CAL YR 1999		--	+2,179		--	-8
Jan. 31	219.34	11,562	+1,764	1,030.17	1,804.63	+12
Feb. 29	221.01	12,774	+1,212	1,030.27	1,813.10	+8
Mar. 31	216.90	9,936	-2,838	1,030.05	1,794.47	-19
Apr. 30	217.45	10,288	+352	1,030.08	1,797.01	+3
May 31	216.56	9,723	-565	1,029.96	1,788.50	-9
June 30	217.27	10,173	+450	1,028.88	1,739.90	-49
July 31	216.65	9,780	-393	1,027.77	1,675.45	-64
Aug. 31	216.73	9,830	+50	1,026.75	1,615.40	-60
Sept. 30	217.84	10,539	+709	1,027.52	1,660.73	+45
WTR YR 2000		--	-4,025		--	-73

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)
	02122400 High Rock Lake			02122699 Tuckertown Reservoir		
Sept. 30	650.20	8,201	--	595.89	1,841	--
Oct. 31	646.64	6,408	-1,793	594.38	1,688	-153
Nov. 30	646.90	6,431	+23	595.60	1,811	+123
Dec. 31	647.01	6,580	+149	595.30	1,780	-31
CAL YR 1999		--	+2,153		--	+155
Jan. 31	647.50	6,818	+238	595.63	1,814	+34
Feb. 29	647.46	6,798	-20	595.19	1,498	-316
Mar. 31	652.10	9,275	+2,477	595.22	1,531	+33
Apr. 30	653.60	10,182	+907	595.69	1,820	+289
May 31	652.02	9,348	-834	594.11	1,662	-158
June 30	649.82	7,998	-1,350	593.09	1,566	-96
July 31	647.74	6,934	-1,064	593.69	1,622	+56
Aug. 31	646.68	6,427	-507	594.41	1,691	+69
Sept. 30	648.94	7,534	+1,107	594.44	1,694	+3
WTR YR 2000		--	-667		--	-147

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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			02123736 Lake Tillery	
Sept. 30	539.50	10,124	--	276.80	5,628	--
Oct. 31	539.69	10,169	+45	277.60	5,800	+172
Nov. 30	539.86	10,208	+39	276.10	5,477	-323
Dec. 31	540.88	10,446	+238	277.70	5,822	+345
CAL YR 1999		--	+198		--	+65
Jan. 31	540.99	10,472	+26	277.60	5,800	-22
Feb. 29	540.26	10,301	-171	278.00	5,888	+88
Mar. 31	539.86	10,208	-93	277.70	5,822	-66
Apr. 30	540.58	10,142	-66	277.80	5,844	+22
May 31	538.70	9,937	-205	277.90	5,866	+22
June 30	538.04	9,786	-151	277.80	5,844	-22
July 31	536.20	9,375	-411	277.80	5,844	0
Aug. 31	535.56	9,237	-138	278.00	5,888	+44
Sept. 30	539.45	10,113	+876	277.90	5,866	-22
WTR YR 2000		--	-11		--	+238

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02128800 Blewett Falls Lake			02138519 Lake James	
Sept. 30	179.10	1,952	--	94.5	11,095	--
Oct. 31	177.50	1,792	-160	94.3	11,044	-51
Nov. 30	175.50	1,582	-210	97.2	11,808	+764
Dec. 31	176.40	1,672	+90	96.6	11,647	-161
CAL YR 1999		--	+80		--	+261
Jan. 31	180.90	2,132	+460	96.1	11,514	-133
Feb. 29	176.50	1,682	-450	97.3	11,835	+321
Mar. 31	176.80	1,712	+30	97.6	11,916	+81
Apr. 30	177.40	1,782	+70	98.3	12,108	+192
May 31	176.90	1,722	-60	97.8	11,971	-137
June 30	177.80	1,822	+100	96.9	11,727	-244
July 31	177.40	1,782	-40	96.6	11,647	-80
Aug. 31	176.50	1,682	-100	95.2	11,277	-370
Sept. 30	177.90	1,832	+150	94.8	11,173	-104
WTR YR 2000		--	-120		--	+78

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02141490 Rhodhiss Lake			02141961 Lake Hickory		
Sept. 30	97.3	1,325	--	96.9	1,941	--
Oct. 31	97.4	1,339	+14	97.0	1,758	-183
Nov. 30	97.6	1,367	+28	97.6	1,859	+101
Dec. 31	97.3	1,325	-42	97.2	1,791	-68
CAL YR 1999		--	+68		--	0
Jan. 31	97.1	1,298	-27	97.9	1,910	+119
Feb. 29	97.3	1,325	+27	97.1	1,775	-135
Mar. 31	97.6	1,367	+42	96.9	1,741	-34
Apr. 30	98.0	1,423	+56	97.5	1,876	+135
May 31	97.1	1,298	-125	97.2	1,791	-85
June 30	97.4	1,339	+41	97.2	1,791	0
July 31	97.3	1,325	-14	96.9	1,741	-50
Aug. 31	96.4	1,203	-122	96.6	1,691	-50
Sept. 30	96.6	1,230	+27	97.1	1,775	+84
WTR YR 2000		--	-95		--	-166

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	97.4	94	--	95.2	41,140	--
Oct. 31	97.3	92	-2	95.2	41,140	0
Nov. 30	98.0	121	+29	95.6	41,650	+510
Dec. 31	97.9	117	-4	96.2	42,420	+770
CAL YR 1999		--	+29		--	+390
Jan. 31	96.4	55	-62	97.0	43,600	+1,180
Feb. 29	96.6	63	8	97.4	44,010	+410
Mar. 31	97.5	100	+37	97.8	44,550	+540
Apr. 30	97.7	109	+9	98.4	45,370	+820
May 31	97.5	100	-9	97.6	44,280	-1,090
June 30	97.1	84	-16	97.0	43,470	-810
July 31	97.3	92	+8	96.3	42,550	-920
Aug 31	97.1	84	-8	95.8	41,900	-650
Sept. 30	96.9	76	-8	96.4	42,680	+780
WTR YR 2000		--	-18		--	+1,540

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02142676 Mountain Island Lake	
Sept. 30	96.7	414	--
Oct. 31	96.2	354	-60
Nov. 30	97.3	488	+134
Dec. 31	97.3	488	0
CAL YR 1999		--	+50
Jan. 31	97.3	488	0
Feb. 29	97.3	488	0
Mar. 31	97.7	538	+50
Apr. 30	97.5	512	-26
May 31	97.1	462	-50
June 30	96.2	354	-108
July 31	96.4	378	+24
Aug. 31	95.8	307	-71
Sept. 30	96.3	366	+59
WTR YR 2000		--	-48

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'35", long 81°24'26", Ashe County, Hydrologic Unit 05050001, on right bank 600 ft upstream from bridge on State Highways 16 and 88, 0.2 mi downstream of Bear Creek, and 4 mi southeast of Jefferson.

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft above sea level. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934, to Mar. 25, 1935, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 14,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record and current water year result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 15, 1916, reached a stage of 18.0 ft, from floodmarks witnessed by local resident; discharge, 35,200 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	136	293	213	312	269	312	421	204	258	320	227
2	178	358	270	210	e290	266	301	.398	198	208	522	253
3	155	826	254	208	e280	247	345	383	193	188	793	182
4	146	339	244	209	e278	240	861	368	190	176	532	229
5	147	257	234	212	e274	244	667	353	196	180	338	214
6	150	228	243	205	e266	233	481	341	209	211	279	255
7	140	209	258	195	e260	224	425	336	220	223	229	202
8	134	196	227	190	e250	221	393	332	191	181	204	172
9	135	188	215	204	e240	215	382	315	181	175	232	158
10	190	187	225	387	e270	217	373	305	172	163	267	154
11	326	183	263	475	341	283	350	293	167	144	209	144
12	243	186	231	313	514	642	340	280	163	145	178	137
13	190	185	223	286	712	429	344	275	159	169	164	135
14	171	171	587	265	777	341	365	265	155	190	154	154
15	163	165	596	234	776	303	416	257	157	164	148	131
16	155	159	404	236	541	299	1020	250	167	152	143	120
17	154	157	341	231	459	371	750	247	187	152	139	114
18	152	154	309	250	432	346	957	246	214	136	137	124
19	144	154	289	263	454	301	738	242	191	131	143	157
20	157	154	305	261	447	962	604	230	184	133	146	170
21	184	164	332	206	378	1280	543	237	170	133	147	147
22	183	183	305	236	351	745	506	274	182	126	147	136
23	156	164	286	350	328	571	462	258	187	126	137	136
24	146	160	265	363	310	490	431	241	163	172	143	130
25	143	190	261	292	304	439	530	304	155	220	163	136
26	142	1720	266	263	289	400	614	286	168	181	156	156
27	141	1040	286	263	288	380	494	239	337	175	137	177
28	139	527	282	e260	306	377	474	225	293	166	140	138
29	138	400	255	e258	288	347	538	232	512	156	134	129
30	137	333	244	e280	---	337	460	230	462	161	126	130
31	137	---	231	311	---	334	---	213	---	306	141	---
TOTAL	5126	9473	9024	8129	11015	12353	15476	8876	6327	5401	6848	4847
MEAN	165	316	291	262	380	398	516	286	211	174	221	162
MAX	326	1720	596	475	777	1280	1020	421	512	306	793	255
MIN	134	136	215	190	240	215	301	213	155	126	126	114
CFSM	.81	1.54	1.42	1.28	1.85	1.94	2.52	1.40	1.03	.85	1.08	.79
IN.	.93	1.72	1.64	1.48	2.00	2.24	2.81	1.61	1.15	.98	1.24	.88

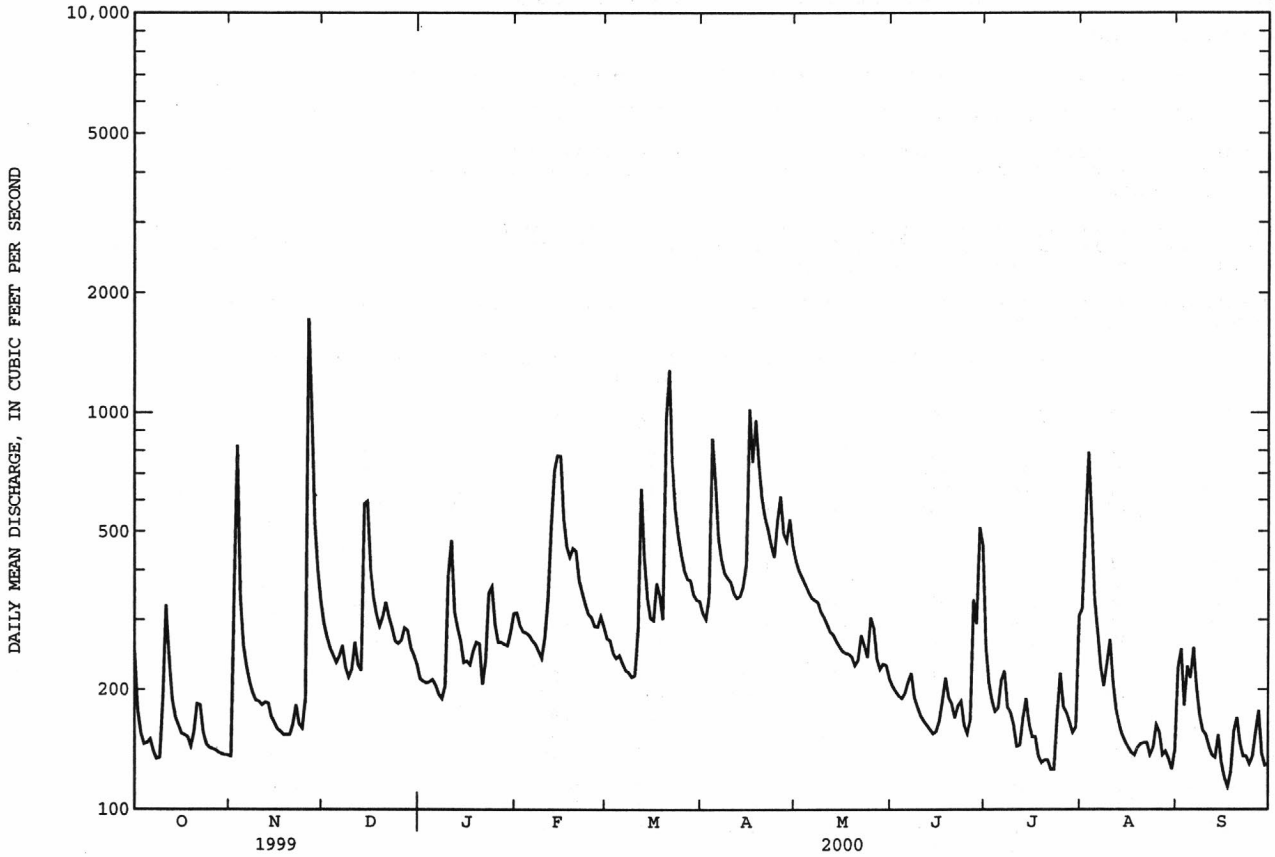
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	359	404	407	476	521	590	566	460	390	331	354	323
MAX	901	1889	797	1346	1173	1316	1350	1052	1036	904	2613	1212
(WY)	1991	1978	1958	1995	1998	1979	1983	1973	1992	1941	1940	1979
MIN	117	124	146	140	197	222	236	220	158	111	93.7	99.5
(WY)	1955	1932	1934	1940	1934	1988	1986	1941	1988	1930	1925	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL TOTAL	103324		102895			
ANNUAL MEAN	283		281		431	
HIGHEST ANNUAL MEAN					669	1949
LOWEST ANNUAL MEAN					233	1988
HIGHEST DAILY MEAN	1720	Nov 26	1720	Nov 26	27700	Aug 14 1940
LOWEST DAILY MEAN	92	Sep 26	114	Sep 17	65	Sep 9 1925
ANNUAL SEVEN-DAY MINIMUM	100	Sep 20	131	Sep 12	72	Aug 21 1925
INSTANTANEOUS PEAK FLOW			2570	Nov 26	52800*	Aug 14 1940
INSTANTANEOUS PEAK STAGE			5.27	Nov 26	22.50	Aug 14 1940
INSTANTANEOUS LOW FLOW			103*	Jan 21	52*	Dec 24 1943
ANNUAL RUNOFF (CFSM)	1.38		1.37		2.10	
ANNUAL RUNOFF (INCHES)	18.75		18.67		28.55	
10 PERCENT EXCEEDS	433		474		713	
50 PERCENT EXCEEDS	251		234		346	
90 PERCENT EXCEEDS	134		142		170	

e Estimated.
* See REMARKS.

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC--Continued



03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'32", long 82°49'28", Transylvania County, Hydrologic Unit 06010105, on left bank 50 ft upstream from bridge on U.S. Highway 178 at Rosman, 1.0 mi upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 mi^2.

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43.

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above sea level. 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 and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record result of freezeup. Minimum daily discharge occurred several days in Sept. and Oct. 1954. Minimum discharge for current water year also occurred Sept. 17, 18, 20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	91	184	131	136	154	198	194	120	101	244	93
2	100	402	172	129	132	151	258	189	118	96	527	116
3	98	181	162	129	132	147	550	189	123	92	336	111
4	176	140	152	153	133	149	779	308	138	89	237	86
5	129	125	149	133	128	144	442	224	129	86	172	73
6	104	116	176	127	125	140	364	208	124	85	140	73
7	97	110	146	127	126	136	323	198	115	84	121	78
8	94	105	138	124	128	133	299	189	111	81	125	76
9	100	101	135	166	128	134	274	185	109	79	117	71
10	401	98	184	369	131	133	258	180	106	77	99	68
11	298	98	155	230	137	284	244	174	104	75	91	65
12	147	96	143	190	221	231	236	172	102	77	86	65
13	133	93	228	178	202	183	264	168	101	96	81	66
14	120	91	614	163	480	171	245	164	104	99	78	72
15	107	91	301	150	283	164	280	161	102	83	76	63
16	100	88	242	145	235	254	269	159	124	76	73	59
17	96	87	211	142	210	273	247	159	139	72	71	59
18	92	87	194	159	203	220	235	159	113	70	69	59
19	90	86	184	152	196	205	221	157	114	70	66	61
20	144	87	186	161	182	1060	214	158	113	73	77	59
21	139	164	187	142	174	508	210	168	147	73	107	226
22	113	115	183	142	169	375	203	179	133	81	78	94
23	102	103	169	152	166	319	198	152	113	89	72	113
24	93	115	162	145	163	283	205	265	105	211	69	89
25	90	508	152	137	160	261	239	169	110	252	66	83
26	88	1550	149	132	156	244	210	148	112	141	65	86
27	86	432	146	e126	179	238	199	138	138	146	64	73
28	84	296	142	e122	168	227	227	135	129	117	63	71
29	83	236	139	132	158	214	208	130	128	167	61	68
30	83	201	136	153	---	210	198	125	116	178	61	68
31	83	---	133	148	---	211	---	123	---	178	67	---
TOTAL	3776	6093	5754	4789	5141	7556	8297	5427	3540	3294	3659	2444
MEAN	122	203	186	154	177	244	277	175	118	106	118	81.5
MAX	401	1550	614	369	480	1060	779	308	147	252	527	226
MIN	83	86	133	122	125	133	198	123	101	70	61	59
CFSM	1.79	2.99	2.73	2.28	2.61	3.59	4.07	2.58	1.74	1.56	1.74	1.20
IN.	2.07	3.34	3.15	2.62	2.82	4.14	4.55	2.97	1.94	1.80	2.00	1.34

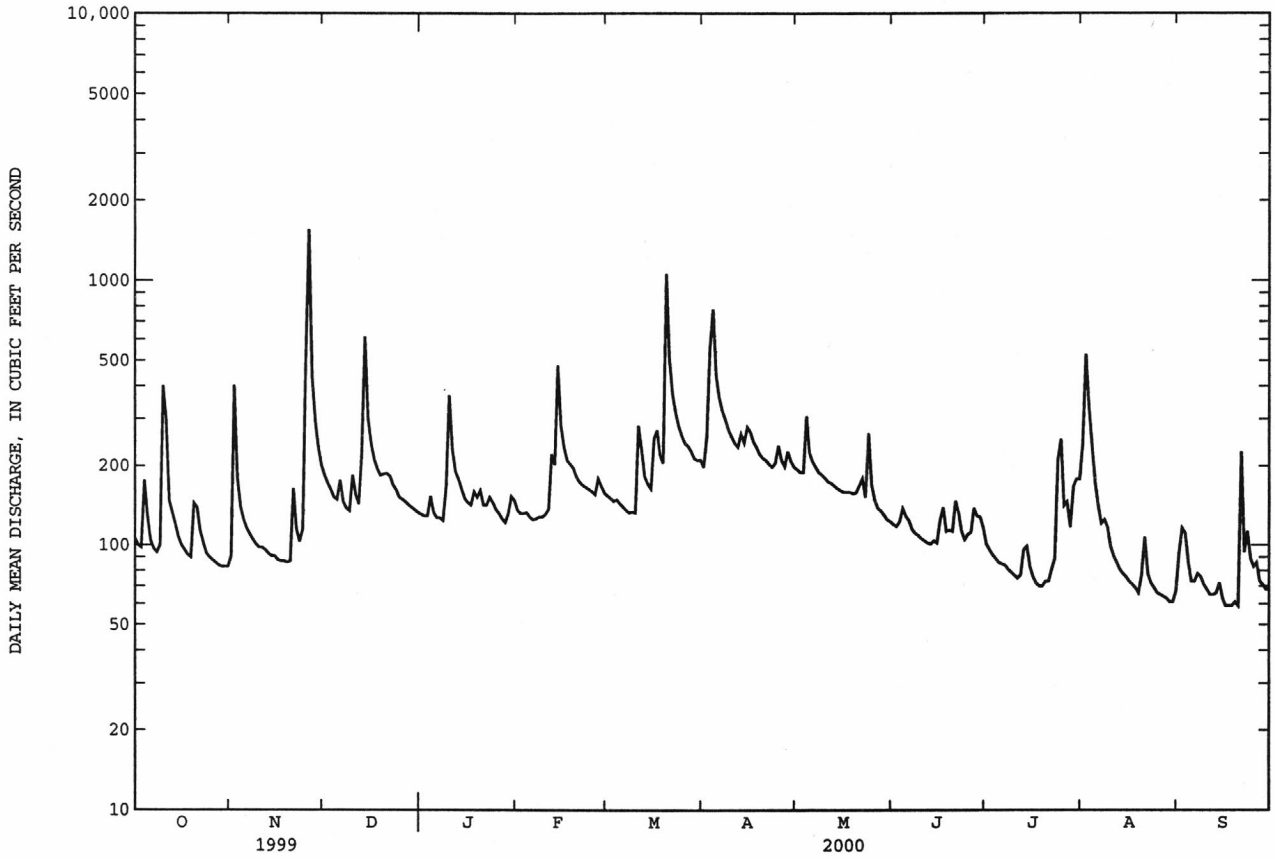
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2000@, BY WATER YEAR (WY)

MEAN	177	203	245	286	321	339	326	263	219	176	187	163
MAX	734	635	489	672	648	787	582	551	882	624	543	447
(WY)	1965	1993	1993	1937	1939	1979	1983	1909	1909	1989	1994	1950
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1908 - 2000@	
ANNUAL TOTAL	64752		59770			
ANNUAL MEAN	177		163		240	
HIGHEST ANNUAL MEAN					370	1949
LOWEST ANNUAL MEAN					136	1981
HIGHEST DAILY MEAN	1550	Nov 26	1550	Nov 26	5630	Oct 4 1964
LOWEST DAILY MEAN	63	Sep 13	59	Sep 16	37*	Sep 25 1954
ANNUAL SEVEN-DAY MINIMUM	65	Sep 11	62	Sep 14	38	Sep 23 1954
INSTANTANEOUS PEAK FLOW			4100	Nov 26	13500	Oct 4 1964
INSTANTANEOUS PEAK STAGE			8.71	Nov 26	14.95	Oct 4 1964
INSTANTANEOUS LOW FLOW			57*	Sep 16	23*	Jan 3 1940
ANNUAL RUNOFF (CFSM)	2.61		2.41		3.53	
ANNUAL RUNOFF (INCHES)	35.48		32.75		48.00	
10 PERCENT EXCEEDS	280		255		422	
50 PERCENT EXCEEDS	160		138		192	
90 PERCENT EXCEEDS	82		74		88	

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

03439000 FRENCH BROAD RIVER AT ROSMAN, NC--Continued



03440000 CATHEYS CREEK NEAR BREVARD, NC

LOCATION.--Lat 35°12'40", long 82°47'00", 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 mi^2.

PERIOD OF RECORD.--October 1944 to September 1955, November 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,230 ft above sea level, 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 ft^3/s on basis of slope-area measurement of peak flow. City of Brevard diverted about 1.8 ft^3/s from Catheys Creek for municipal water supply. Minimum discharge for period of record also occurred Sept. 25, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	12	22	18	17	22	30	32	20	18	34	14
2	8.6	38	20	17	18	21	41	32	19	17	43	14
3	8.3	18	19	17	18	21	84	32	24	16	31	17
4	29	15	18	20	18	21	119	54	23	16	42	14
5	13	14	19	18	18	20	66	39	22	15	35	12
6	10	13	21	17	18	19	55	36	20	15	25	13
7	9.4	13	18	17	18	19	49	34	19	14	20	13
8	9.2	12	17	17	19	19	46	32	18	14	19	12
9	10	12	17	24	19	19	43	31	18	14	17	11
10	49	12	24	53	19	19	41	30	17	13	18	10
11	30	11	20	32	21	58	39	29	17	13	16	9.9
12	15	11	19	26	39	40	38	28	17	14	15	9.8
13	16	11	34	24	33	31	44	27	16	16	14	16
14	13	11	69	22	79	28	42	26	17	15	13	14
15	12	10	38	21	43	26	49	25	17	15	13	10
16	11	10	31	21	35	42	47	25	19	13	13	9.6
17	11	10	27	21	31	40	43	25	20	12	13	9.2
18	10	10	26	23	30	34	40	24	17	12	12	9.5
19	11	10	24	22	29	33	38	23	18	12	12	9.3
20	22	10	24	23	26	154	37	23	17	12	14	9.1
21	16	19	25	20	25	74	36	27	19	11	15	22
22	13	12	24	21	24	55	35	25	17	11	13	13
23	12	12	22	22	24	47	34	23	16	12	13	15
24	12	14	21	20	23	43	36	51	15	31	12	13
25	11	79	20	19	23	40	40	28	15	24	12	12
26	11	150	20	20	22	37	35	25	15	16	11	11
27	11	47	19	19	27	37	33	23	47	16	11	10
28	10	34	19	19	24	34	40	23	28	14	11	9.9
29	10	27	18	19	22	33	36	21	25	15	10	9.3
30	10	24	18	18	---	32	33	21	21	15	9.9	9.4
31	10	---	18	18	---	31	---	21	---	21	13	---
TOTAL	432.4	681	731	668	762	1149	1349	895	593	472	549.9	361.0
MEAN	13.9	22.7	23.6	21.5	26.3	37.1	45.0	28.9	19.8	15.2	17.7	12.0
MAX	49	150	69	53	79	154	119	54	47	31	43	22
MIN	8.3	10	17	17	17	19	30	21	15	11	9.9	9.1
CFSM	1.19	1.94	2.02	1.84	2.25	3.17	3.84	2.47	1.69	1.30	1.52	1.03
IN.	1.37	2.17	2.32	2.12	2.42	3.65	4.29	2.85	1.89	1.50	1.75	1.15

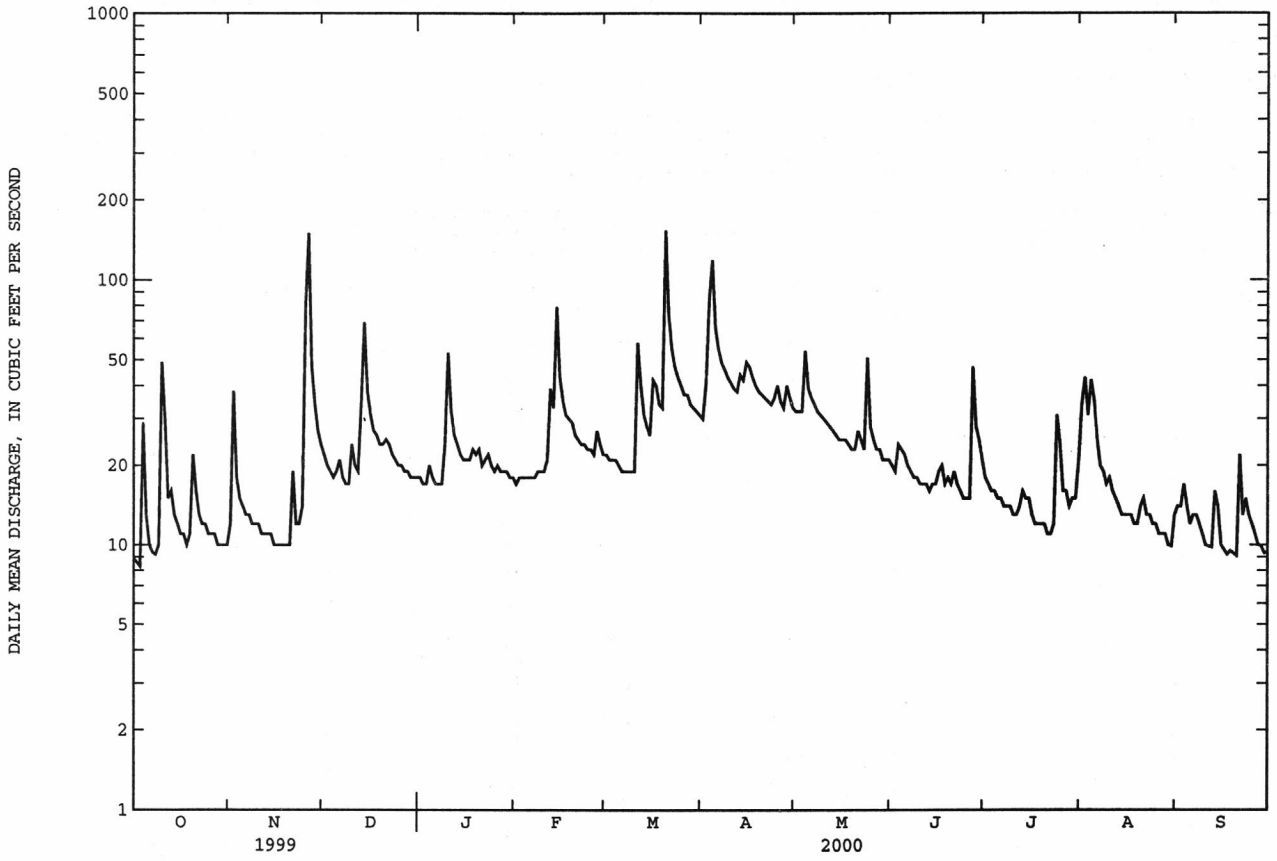
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2000@, BY WATER YEAR (WY)

MEAN	24.6	30.5	34.8	44.7	47.8	54.6	49.3	38.7	33.6	28.9	28.6	24.4
MAX	70.0	77.9	63.3	86.3	90.1	110	71.4	57.3	78.2	94.9	91.2	67.8
(WY)	1996	1949	1993	1998	1998	1952	1998	1949	1989	1949	1994	1950
MIN	7.30	8.69	13.4	14.5	24.7	20.7	27.2	17.2	11.6	10.9	9.64	8.21
(WY)	1955	1955	1999	1955	1989	1988	1988	1988	1988	1988	1988	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1945 - 2000@	
ANNUAL TOTAL	8831.8		8643.3			
ANNUAL MEAN	24.2		23.6		36.6	
HIGHEST ANNUAL MEAN					59.7	1949
LOWEST ANNUAL MEAN					18.3	1988
HIGHEST DAILY MEAN	150	Nov 26	154	Mar 20	814	Aug 17 1994
LOWEST DAILY MEAN	6.0	Sep 16	8.3	Oct 3	6.0	Sep 16 1999
ANNUAL SEVEN-DAY MINIMUM	6.7	Sep 14	10	Sep 14	6.6	Oct 20 1954
INSTANTANEOUS PEAK FLOW			561	Nov 25	2410*	Aug 17 1994
INSTANTANEOUS PEAK STAGE			3.97	Nov 25	7.28	Aug 17 1994
INSTANTANEOUS LOW FLOW			5.3	Oct 3	2.9*	Sep 16 1999
ANNUAL RUNOFF (CFSM)	2.07		2.02		3.13	
ANNUAL RUNOFF (INCHES)	28.08		27.48		42.52	
10 PERCENT EXCEEDS	38		40		64	
50 PERCENT EXCEEDS	23		19		30	
90 PERCENT EXCEEDS	10		11		13	

@ See PERIOD OF RECORD.
* See REMARKS.

03440000 CATHEYS CREEK NEAR BREVARD, NC--Continued



03441000 DAVIDSON RIVER NEAR BREVARD, NC

LOCATION.--Lat 35°16'23", long 83°42'21", Transylvania County, Hydrologic Unit 06010105, on right bank 150 ft upstream of bridge on State Highway 280, 2.1 mi downstream of Avery Creek, 3.3 mi northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 mi^2.

PERIOD OF RECORD.--October 1920 to September 1990, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage Area. WSP 1336: 1921, 1922 (M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft above sea level (levels by Tennesse Valley Authority). Prior to May 17, 1934, nonrecording gage at site 50 ft downstream at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for current water year also occurred Oct. 4.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1869, 11.9 ft June 1876 (from studies by Tennesse Valley Authority).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	36	96	64	e70	82	105	116	56	39	179	41
2	23	252	88	63	e68	79	151	112	54	37	387	47
3	22	95	81	62	e66	76	406	117	70	35	168	59
4	67	68	75	69	e66	75	547	181	69	34	136	45
5	40	57	72	62	65	72	287	136	60	34	110	35
6	29	51	85	59	64	70	229	123	56	33	85	37
7	26	47	69	58	66	68	196	116	50	32	71	41
8	25	45	65	56	68	67	178	109	48	30	64	39
9	26	42	64	87	68	66	160	105	47	30	58	36
10	172	41	95	232	72	66	149	100	45	29	51	33
11	125	39	79	135	81	206	142	94	44	28	48	31
12	54	38	72	110	171	157	136	91	43	34	44	30
13	50	37	111	101	142	117	163	87	42	39	42	38
14	45	37	375	87	352	105	155	83	45	39	40	35
15	38	35	176	83	191	98	217	80	42	38	39	29
16	35	34	138	80	150	148	194	78	42	29	37	27
17	34	33	119	78	128	149	171	77	67	27	36	27
18	32	33	107	94	122	124	155	75	62	26	37	27
19	31	33	99	86	117	118	144	72	49	27	35	29
20	72	33	101	94	106	811	135	70	59	27	44	26
21	64	74	101	79	99	349	131	73	65	25	57	55
22	45	48	99	75	95	243	124	76	49	25	41	37
23	40	43	89	83	91	196	119	66	43	30	38	64
24	37	51	85	79	88	170	123	146	39	73	36	42
25	35	303	79	e70	86	154	149	85	38	70	34	40
26	34	849	77	e68	83	142	125	72	37	42	33	43
27	33	247	74	e66	101	137	117	68	45	46	33	34
28	32	168	72	113	92	128	153	68	52	37	33	31
29	31	131	68	69	84	118	131	63	61	54	31	30
30	31	110	66	80	---	115	121	60	47	55	30	29
31	31	---	65	75	---	111	---	58	---	61	39	---
TOTAL	1383	3110	3042	2617	3052	4617	5313	2857	1526	1165	2116	1117
MEAN	44.6	104	98.1	84.4	105	149	177	92.2	50.9	37.6	68.3	37.2
MAX	172	849	375	232	352	811	547	181	70	73	387	64
MIN	22	33	64	56	64	66	105	58	37	25	30	26
CFSM	1.10	2.57	2.43	2.09	2.60	3.69	4.38	2.28	1.26	.93	1.69	.92
IN.	1.27	2.86	2.80	2.41	2.81	4.25	4.89	2.63	1.41	1.07	1.95	1.03

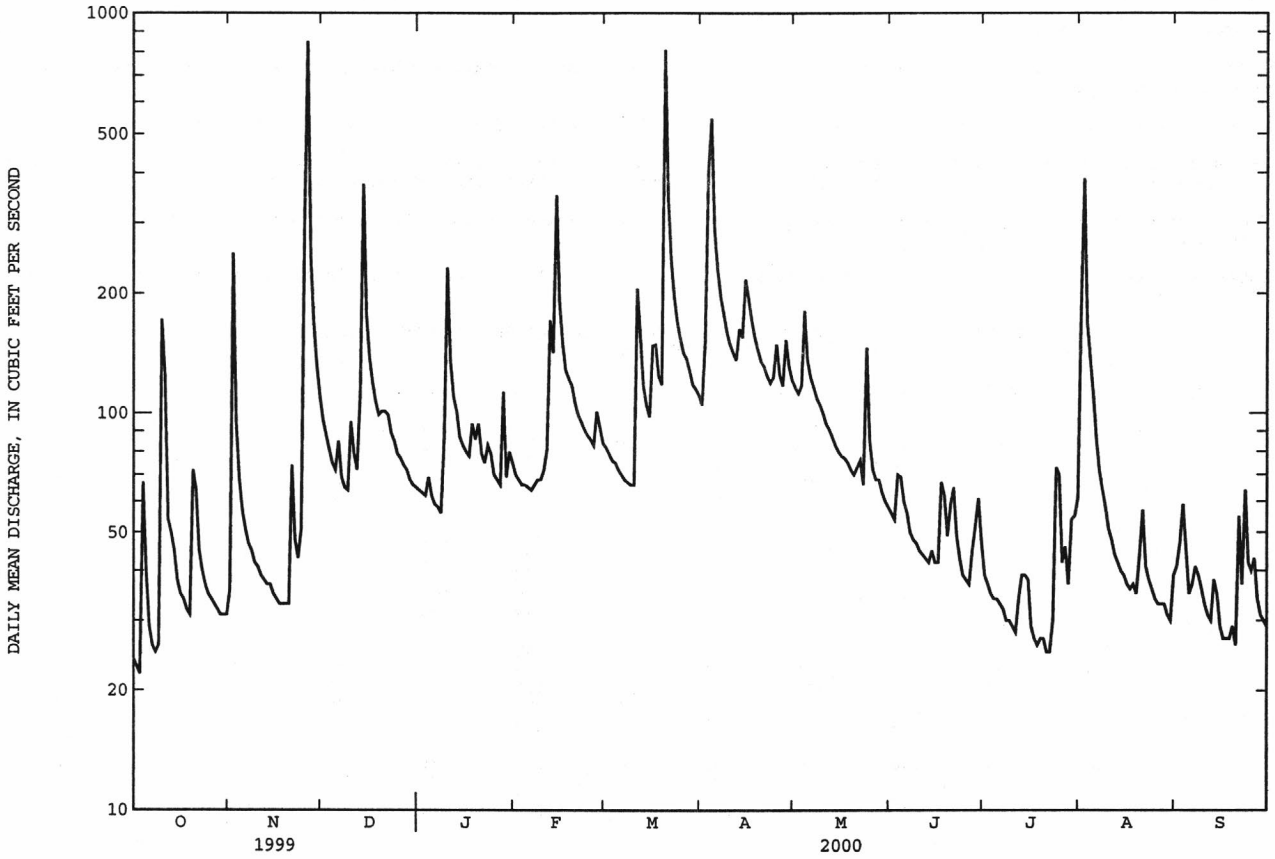
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000@, BY WATER YEAR (WY)

MEAN	95.8	105	130	157	170	185	174	142	113	91.9	98.8	88.3
MAX	379	362	323	374	363	466	349	293	254	285	404	297
(WY)	1965	1980	1933	1937	1939	1929	1957	1923	1967	1989	1928	1928
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000@	
ANNUAL TOTAL	32713		31915			
ANNUAL MEAN	89.6		87.2		129	
HIGHEST ANNUAL MEAN					208	1949
LOWEST ANNUAL MEAN					70.6	1988
HIGHEST DAILY MEAN	849	Nov 26	849	Nov 26	2940	Aug 17 1994
LOWEST DAILY MEAN	16	Sep 16	22	Oct 3	14	Sep 28 1954
ANNUAL SEVEN-DAY MINIMUM	18	Sep 13	27	Jul 16	15	Sep 25 1954
INSTANTANEOUS PEAK FLOW			2360	Nov 26	8400	Aug 15 1928
INSTANTANEOUS PEAK STAGE			5.49	Nov 26	12.08	Aug 17 1994
INSTANTANEOUS LOW FLOW			22*	Oct 3	13	Oct 11 1954
ANNUAL RUNOFF (CFSM)	2.22		2.16		3.20	
ANNUAL RUNOFF (INCHES)	30.12		29.39		43.42	
10 PERCENT EXCEEDS	151		154		230	
50 PERCENT EXCEEDS	79		68		100	
90 PERCENT EXCEEDS	26		32		42	

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

03441000 DAVIDSON RIVER NEAR BREVARD, NC--Continued



03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'56", long 82°37'26", Transylvania County, Hydrologic Unit 06010105, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 mi downstream of Little River, and at mile 183.7.

DRAINAGE AREA.--296 mi^2.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft above sea level (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 2,600 ft^3/s, which are poor. Considerable diurnal fluctuation at low flow caused by power plant about 8 mi upstream from station. Maximum gage height for period of record, 25.50 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since at least 1791, maximum stage 27.1 ft, July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	325	797	539	600	606	767	780	474	415	548	280
2	255	1260	752	534	577	587	846	753	465	374	1240	321
3	242	1150	667	525	573	571	1810	747	e480	e360	918	522
4	450	704	635	590	582	562	2920	1340	e570	e350	851	378
5	670	588	612	676	566	551	2090	1140	e520	e335	702	301
6	366	528	707	558	542	526	1470	934	505	e320	552	287
7	296	492	658	536	544	522	1270	864	461	e305	475	280
8	276	464	591	539	555	515	1150	802	433	289	473	300
9	268	444	561	602	566	509	1060	769	420	284	522	275
10	688	447	639	1770	563	513	983	734	408	272	429	251
11	1670	404	720	1450	578	885	935	703	391	253	377	242
12	804	395	608	960	840	1120	897	671	385	e260	336	237
13	576	396	678	851	1010	799	972	659	370	e320	307	234
14	525	375	2160	774	1920	694	1010	625	376	e375	295	384
15	447	366	1500	710	1470	655	1270	610	388	333	281	263
16	397	348	1050	679	1050	763	1260	584	424	280	271	226
17	369	340	903	667	918	1370	1100	577	553	256	259	221
18	346	324	824	670	852	999	1030	572	503	245	253	213
19	328	324	759	692	846	863	947	553	413	236	238	222
20	454	330	766	688	770	3220	905	545	454	233	247	220
21	671	402	775	656	737	3600	875	603	504	231	389	656
22	509	500	790	612	695	1980	830	710	476	226	332	684
23	433	423	738	642	682	1380	804	602	426	235	273	512
24	393	429	695	658	653	1190	795	785	371	429	255	482
25	367	695	657	617	640	1070	948	902	342	685	263	360
26	352	3480	622	569	624	988	898	649	382	561	243	353
27	341	3110	613	510	640	935	805	585	395	412	237	308
28	330	1480	586	561	722	912	895	556	528	363	237	278
29	326	1040	575	560	623	848	919	545	582	370	234	265
30	322	896	550	620	---	812	821	515	528	459	227	254
31	316	---	555	666	---	807	---	502	---	570	255	---
TOTAL	14087	22459	23743	21681	21938	31352	33282	21916	13527	10636	12519	9809
MEAN	454	749	766	699	756	1011	1109	707	451	343	404	327
MAX	1670	3480	2160	1770	1920	3600	2920	1340	582	685	1240	684
MIN	242	324	550	510	542	509	767	502	342	226	227	213
CFSM	1.54	2.53	2.59	2.36	2.56	3.42	3.75	2.39	1.52	1.16	1.36	1.10
IN.	1.77	2.82	2.98	2.72	2.76	3.94	4.18	2.75	1.70	1.34	1.57	1.23

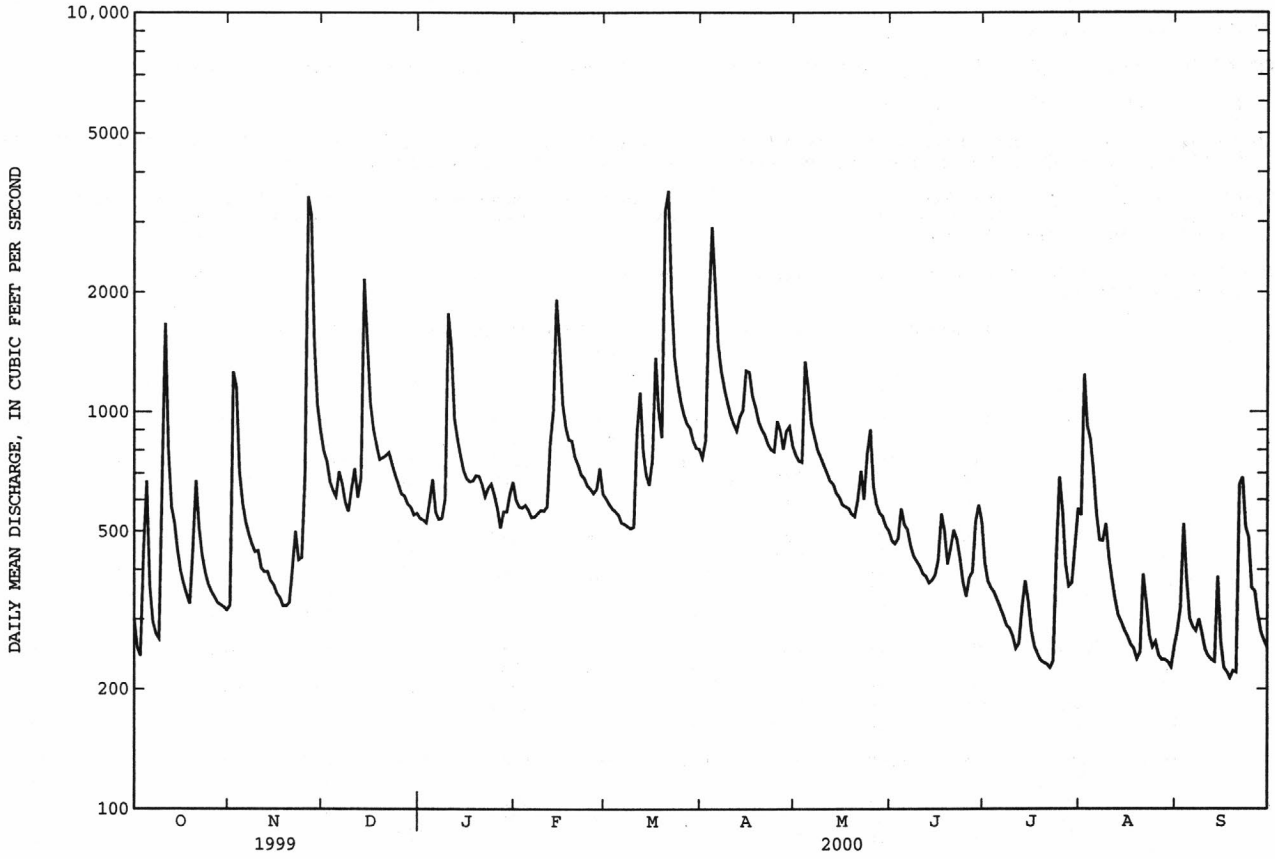
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY)

MEAN	765	842	1028	1215	1286	1400	1312	1066	878	726	775	684
MAX	3504	2486	2142	2783	2735	3169	2509	2339	1872	2214	2363	1828
(WY)	1965	1980	1962	1937	1998	1979	1936	1973	1989	1949	1994	1979
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL TOTAL	265470		236949			
ANNUAL MEAN	727		647		997	
HIGHEST ANNUAL MEAN					1564	1949
LOWEST ANNUAL MEAN					534	1988
HIGHEST DAILY MEAN	3520	Apr 2	3600	Mar 21	22700	Oct 5 1964
LOWEST DAILY MEAN	177	Sep 17	213	Sep 18	123	Oct 10 1954
ANNUAL SEVEN-DAY MINIMUM	183	Sep 13	237	Jul 17	133	Oct 8 1954
INSTANTANEOUS PEAK FLOW			3950	Mar 21	30000	Oct 5 1964
INSTANTANEOUS PEAK STAGE			16.25	Mar 21	25.50*	Oct 5 1964
INSTANTANEOUS LOW FLOW			209	Sep 18	119	Oct 1 1954
ANNUAL RUNOFF (CFSM)	2.46		2.19		3.37	
ANNUAL RUNOFF (INCHES)	33.36		29.78		45.74	
10 PERCENT EXCEEDS	1150		1030		1730	
50 PERCENT EXCEEDS	662		561		809	
90 PERCENT EXCEEDS	254		270		356	

e Estimated.
* See REMARKS.

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC--Continued



03446000 MILLS RIVER NEAR MILLS RIVER, NC

LOCATION.--Lat 35°23'55", long 82°35'42", Henderson County, Hydrologic Unit 06010105, on right bank 1.5 mi downstream of confluence of North and South Forks, 1.8 mi northwest of Mills River, 4.2 mi northwest of Horseshoe, and at mile 4.6.

DRAINAGE AREA.--66.7 mi^2.

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above sea level (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 4.1 ft^3/s from North Fork and Bradley Creek for municipal water supply. Maximum discharge for period of record, from rating curve extended above 6,200 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	43	112	77	e82	88	131	153	81	64	78	71
2	31	264	102	76	e80	86	150	147	78	60	132	89
3	33	126	96	75	e78	84	334	143	77	72	128	143
4	71	83	90	80	e76	84	536	274	94	60	118	84
5	72	68	87	78	e76	81	337	215	85	60	83	71
6	43	60	98	71	e75	78	273	189	86	58	68	66
7	38	54	84	70	73	76	238	174	76	54	94	63
8	36	51	75	70	73	75	217	163	70	51	125	61
9	37	49	76	85	73	73	198	154	67	51	84	57
10	133	46	101	207	76	73	185	146	64	49	79	53
11	150	45	97	144	81	234	175	138	61	46	69	50
12	77	45	87	117	155	212	168	133	59	51	61	47
13	61	42	117	108	146	151	191	127	59	62	56	46
14	55	41	391	97	305	131	181	120	66	64	54	48
15	44	40	222	92	204	120	241	115	62	62	51	44
16	41	39	171	91	161	153	216	112	62	53	49	41
17	39	42	146	88	139	175	199	110	68	46	47	40
18	36	42	131	91	131	145	188	107	79	44	49	40
19	35	41	121	90	125	137	177	102	75	46	51	42
20	61	41	121	93	113	710	167	101	96	47	55	40
21	80	60	117	e84	106	436	162	100	90	43	86	55
22	51	63	117	87	101	305	155	103	74	48	62	56
23	44	50	105	109	97	247	150	96	68	82	53	81
24	40	52	100	88	94	214	151	152	62	139	50	61
25	39	190	94	e82	92	193	179	120	60	118	47	55
26	38	863	e91	e82	89	178	157	105	64	79	44	59
27	36	284	89	e82	102	172	147	96	66	63	46	49
28	35	187	86	e82	105	161	197	91	70	60	48	45
29	35	149	83	e82	91	147	175	89	94	75	43	43
30	40	125	80	85	---	142	161	87	78	85	41	42
31	40	---	79	87	---	139	---	85	---	82	56	---
TOTAL	1605	3285	3566	2850	3199	5300	6136	4047	2191	1974	2107	1742
MEAN	51.8	110	115	91.9	110	171	205	131	73.0	63.7	68.0	58.1
MAX	150	863	391	207	305	710	536	274	96	139	132	143
MIN	31	39	75	70	73	73	131	85	59	43	41	40
CFSM	.78	1.64	1.72	1.38	1.65	2.56	3.07	1.96	1.09	.95	1.02	.87
IN.	.90	1.83	1.99	1.59	1.78	2.96	3.42	2.26	1.22	1.10	1.18	.97

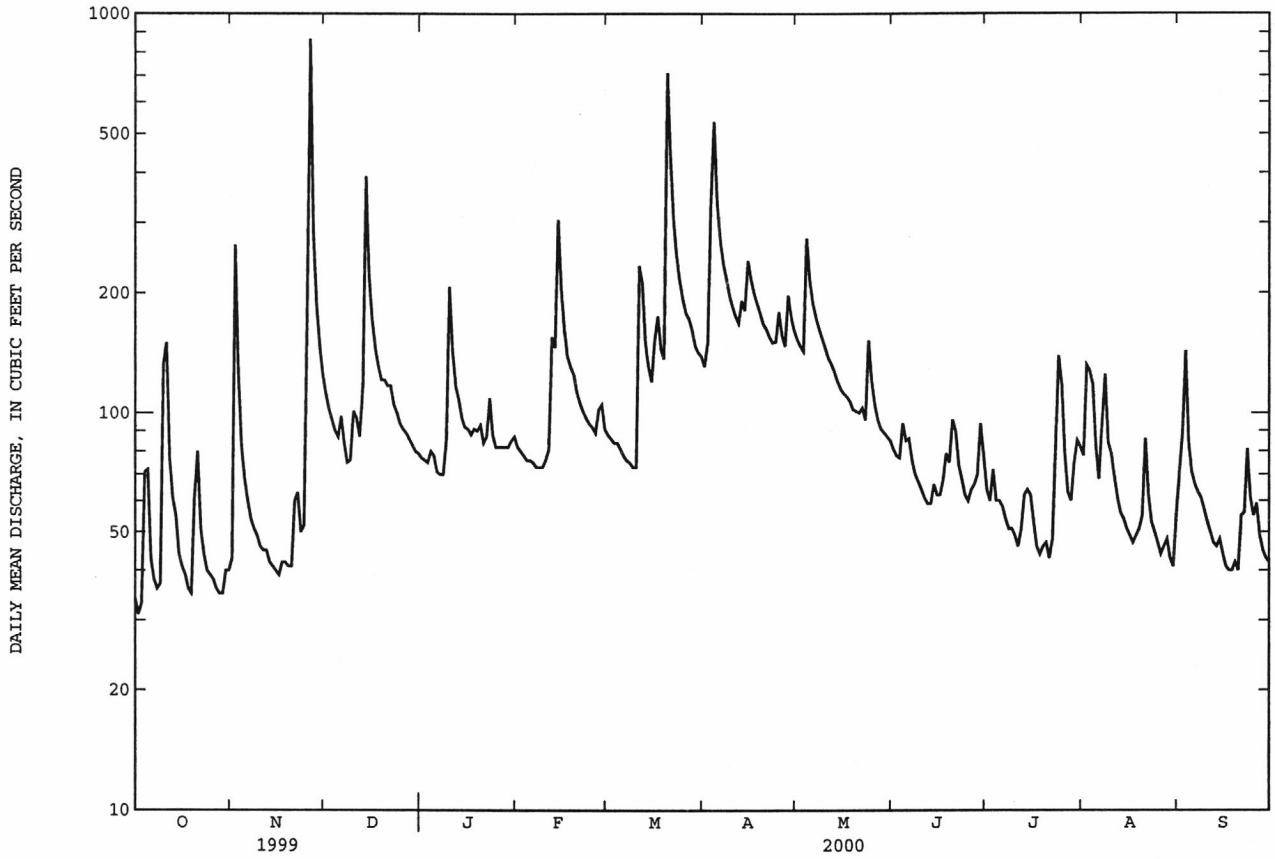
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000@, BY WATER YEAR (WY)

MEAN	126	143	163	200	221	246	237	188	152	119	128	114
MAX	465	510	338	534	499	520	468	412	359	356	506	354
(WY)	1965	1980	1962	1937	1998	1979	1957	1973	1992	1989	1940	1979
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000@	
ANNUAL TOTAL	38554		38002			
ANNUAL MEAN	106		104		170	
HIGHEST ANNUAL MEAN					272	1949
LOWEST ANNUAL MEAN					86.8	1988
HIGHEST DAILY MEAN	863	Nov 26	863	Nov 26	4470	Aug 13 1940
LOWEST DAILY MEAN	20	Sep 17	31	Oct 2	18	Sep 30 1954
ANNUAL SEVEN-DAY MINIMUM	22	Sep 12	38	Oct 24	19	Sep 24 1954
INSTANTANEOUS PEAK FLOW			1620	Nov 26	13400*	Aug 30 1940
INSTANTANEOUS PEAK STAGE			4.83	Nov 26	13.62	Aug 30 1940
INSTANTANEOUS LOW FLOW			30	Oct 2	16*	Dec 24 1943
ANNUAL RUNOFF (CFSM)	1.58		1.56		2.54	
ANNUAL RUNOFF (INCHES)	21.50		21.19		34.54	
10 PERCENT EXCEEDS	175		180		302	
50 PERCENT EXCEEDS	97		82		136	
90 PERCENT EXCEEDS	33		43		55	

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

03446000 MILLS RIVER NEAR MILLS RIVER, NC--Continued



0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC

LOCATION.--Lat 35°41'07", long 82°19'58", Buncombe County, Hydrologic Unit 06010105, on left bank 400 ft downstream of Sugar Springs Cove, 0.6 mi upstream from Burnette Reservoir, and 2.3 mi north of Walkertown.

DRAINAGE AREA.--14.5 mi^2.

PERIOD OF RECORD.--February 1989 to current year.

REVISED RECORDS.--WDR NC-91-1: 1989(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those above 1,000 ft^3/s which are fair. Minimum discharge for period of record also occurred Sept. 15, 16, 18, 19, 1998, Oct. 3, 4, 1998. Minimum discharge for current water year also occurred Oct. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	9.4	34	18	20	28	26	47	19	26	113	13
2	6.4	413	31	18	20	26	36	43	17	21	191	11
3	5.5	84	28	17	19	25	137	39	16	17	85	12
4	14	49	26	19	20	24	261	36	15	15	60	12
5	13	37	24	18	18	22	114	33	15	14	46	11
6	8.4	31	31	16	17	21	83	30	15	15	37	11
7	6.9	27	26	16	17	20	67	28	14	15	30	11
8	6.2	24	24	15	18	19	58	26	12	13	26	10
9	6.0	21	22	23	20	18	51	24	12	12	23	9.4
10	29	20	29	99	23	18	47	23	11	10	20	8.8
11	27	21	28	56	32	44	44	21	10	10	18	7.9
12	16	20	25	42	162	51	41	20	9.7	9.7	16	7.5
13	16	18	43	38	123	36	42	19	9.2	9.8	15	7.1
14	16	17	140	33	258	32	44	18	8.8	9.1	14	6.8
15	12	16	65	30	123	29	108	16	10	9.5	13	6.4
16	11	15	50	29	90	36	124	16	8.6	8.0	12	5.9
17	9.8	14	42	30	76	44	97	16	9.0	7.3	11	5.8
18	9.0	14	37	36	66	37	77	15	9.8	7.2	12	5.9
19	8.3	13	34	34	77	34	67	14	9.3	7.5	12	6.5
20	10	12	33	32	59	258	58	14	18	7.8	13	5.8
21	12	15	32	27	49	123	52	20	25	6.7	15	8.6
22	10	13	32	26	43	83	47	22	25	6.4	12	7.5
23	9.4	13	29	25	39	65	43	16	17	6.8	11	12
24	9.0	13	27	25	36	54	41	44	13	29	11	8.4
25	8.6	53	24	23	34	47	53	44	12	27	11	9.0
26	8.3	339	24	22	32	42	56	40	20	17	9.5	16
27	7.9	96	23	22	34	39	48	30	38	45	9.0	10
28	7.6	62	21	21	35	36	71	26	30	23	8.6	8.4
29	7.3	48	20	21	30	32	64	27	62	34	8.2	7.4
30	7.0	40	19	23	---	30	53	23	38	40	8.1	6.9
31	7.0	---	19	21	---	28	---	21	---	86	17	---
TOTAL	333.4	1567.4	1042	875	1590	1401	2110	811	528.4	564.8	887.4	269.0
MEAN	10.8	52.2	33.6	28.2	54.8	45.2	70.3	26.2	17.6	18.2	28.6	8.97
MAX	29	413	140	99	258	258	261	47	62	86	191	16
MIN	5.5	9.4	19	15	17	18	26	14	8.6	6.4	8.1	5.8
CFSM	.74	3.60	2.32	1.95	3.78	3.12	4.85	1.80	1.21	1.26	1.97	.62
IN.	.86	4.02	2.67	2.24	4.08	3.59	5.41	2.08	1.36	1.45	2.28	.69

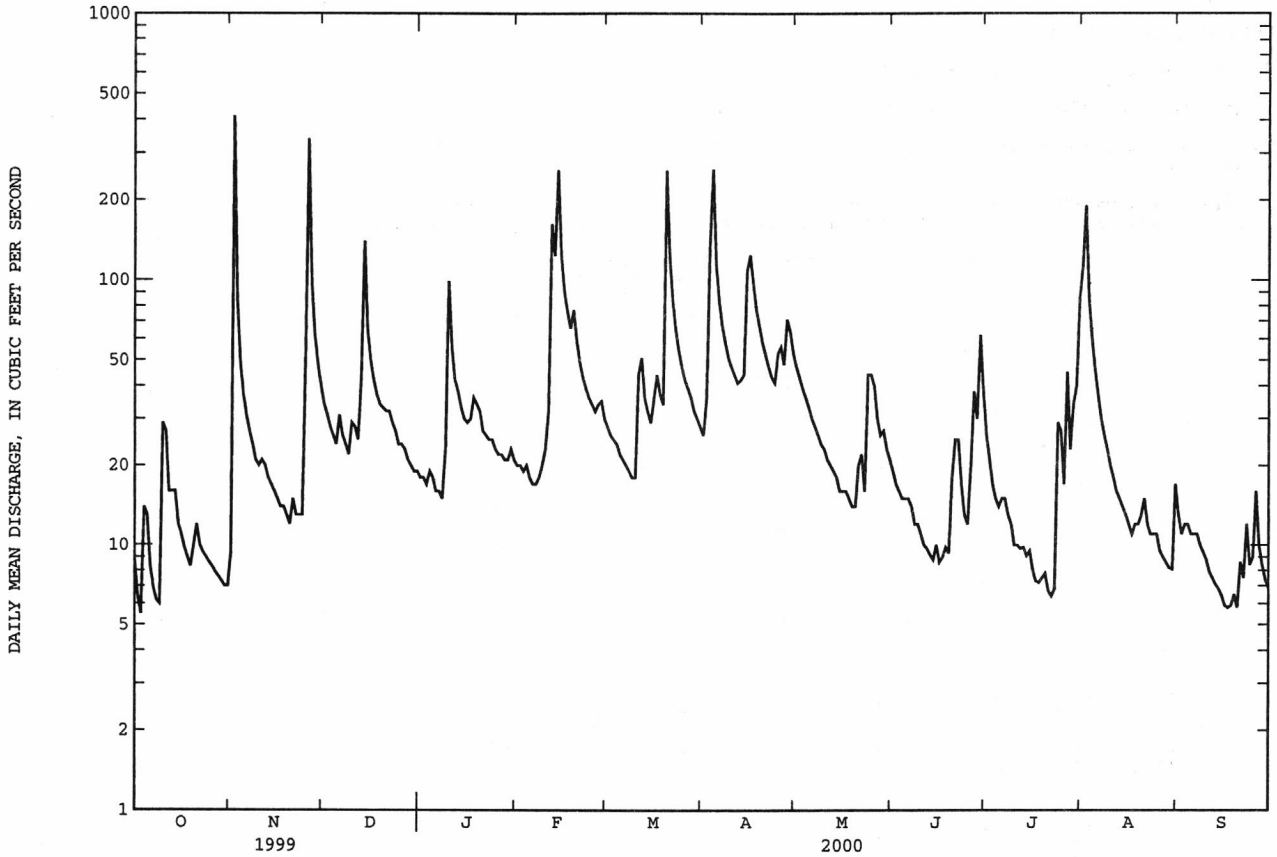
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	29.5	33.9	42.9	66.7	63.7	74.2	55.2	46.9	35.9	22.9	31.6	18.1
MAX	79.1	84.6	79.8	134	120	111	82.2	74.4	78.0	63.0	123	64.3
(WY)	1996	1993	1993	1995	1990	1993	1998	1992	1995	1999	1994	1989
MIN	2.49	4.88	14.8	28.2	30.2	39.5	18.6	19.6	13.5	5.71	3.96	1.92
(WY)	1999	1999	1999	2000	1999	1999	1995	1994	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	11336.8		11979.4			
ANNUAL MEAN	31.1		32.7		42.9	
HIGHEST ANNUAL MEAN					51.9	1995
LOWEST ANNUAL MEAN					24.9	1999
HIGHEST DAILY MEAN	413	Nov 2	413	Nov 2	1740	Jan 14 1995
LOWEST DAILY MEAN	2.9	Sep 26	5.5	Oct 3	1.5	Sep 14 1998
ANNUAL SEVEN-DAY MINIMUM	3.3	Sep 20	6.2	Sep 14	1.6	Sep 12 1998
INSTANTANEOUS PEAK FLOW			1110	Nov 2	4600	Jan 14 1995
INSTANTANEOUS PEAK STAGE			5.79	Nov 2	8.19	Jan 14 1995
INSTANTANEOUS LOW FLOW			5.1*	Oct 3	1.5*	Sep 14 1998
ANNUAL RUNOFF (CFSM)	2.14		2.26		2.96	
ANNUAL RUNOFF (INCHES)	29.08		30.73		40.22	
10 PERCENT EXCEEDS	60		62		84	
50 PERCENT EXCEEDS	24		21		29	
90 PERCENT EXCEEDS	6.9		8.4		6.7	

* See REMARKS.

0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC--Continued



03450000 BEETREE CREEK NEAR SWANNANOA, NC

LOCATION.--Lat 35°39'11", long 82°24'20", Buncombe County, Hydrologic Unit 06010105, on left bank 0.5 mi downstream of Wolfe Branch, 0.8 mi upstream from Beetree Reservoir dam, 3.8 mi north of Swannanoa, and 4.8 mi above mouth.

DRAINAGE AREA.--5.46 mi^2.

PERIOD OF RECORD.--February 1926 to September 1975, October 1979 to September 1981, October 1985 to September 1986, and May 1987 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928, 1936-37 (M). WSP 953: 1929 (M). WSP 1276: 1932.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 2,728.39 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 240 ft^3/s on basis of computation of peak flow over weir. Minimum discharge for current water year also occurred Oct. 4. Minimum discharge for period of record also occurred July 25, 1996.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.7	8.3	4.6	5.5	7.9	8.6	22	7.0	9.4	14	1.6
2	1.2	34	7.5	4.4	5.3	7.5	11	20	6.3	7.8	19	4.9
3	1.0	14	6.8	4.4	4.8	7.1	41	17	5.9	10	15	6.8
4	3.6	8.5	6.3	4.4	4.4	7.1	83	15	5.5	9.1	11	3.5
5	2.3	7.0	5.8	4.1	4.2	6.6	46	13	5.6	7.4	8.3	3.0
6	1.5	6.1	6.7	4.0	4.1	6.4	35	12	5.4	6.6	6.8	2.8
7	1.2	5.5	5.7	4.0	4.3	6.2	29	11	4.9	5.9	6.1	2.5
8	1.2	5.0	5.3	4.0	4.9	5.9	25	9.9	4.5	5.2	5.3	2.3
9	1.1	4.6	5.1	5.5	6.2	5.6	23	9.2	4.2	4.6	4.5	2.2
10	3.7	4.3	6.2	20	7.3	5.6	21	8.7	3.9	4.1	4.2	2.0
11	3.7	4.5	5.7	13	9.3	19	19	8.0	3.8	3.9	3.7	1.8
12	2.5	4.2	5.3	10	46	18	17	7.6	3.5	3.9	3.4	1.7
13	2.5	3.9	6.5	9.7	38	13	17	7.1	3.3	4.3	3.1	1.5
14	2.2	3.8	21	8.4	58	12	16	6.6	3.2	3.8	2.8	1.5
15	1.9	3.6	14	7.9	37	10	19	6.3	3.8	3.9	2.6	1.3
16	1.8	3.5	11	7.9	28	12	23	6.0	3.1	3.3	2.4	1.2
17	1.7	3.4	9.4	7.7	22	12	23	5.8	3.2	2.9	2.1	1.2
18	1.6	3.2	8.5	9.8	19	11	22	5.5	3.2	2.7	2.1	1.3
19	1.5	3.2	7.8	9.4	19	10	21	5.1	2.9	2.7	2.1	1.4
20	2.1	3.1	7.3	9.2	15	57	19	5.5	5.4	2.6	2.8	1.2
21	2.3	3.6	7.2	8.2	13	40	17	9.0	17	2.3	3.0	2.7
22	1.9	3.2	6.9	e8.0	12	29	16	8.5	18	2.1	2.4	1.9
23	1.7	3.2	6.4	e7.8	10	24	15	6.6	9.9	2.3	2.2	3.4
24	1.7	3.1	6.2	e7.6	9.9	20	14	14	7.4	4.3	2.0	2.1
25	1.7	7.5	5.6	e7.4	9.2	18	18	14	8.7	4.0	1.9	2.3
26	1.6	67	5.6	e7.2	8.8	15	19	12	8.0	3.2	1.6	2.5
27	1.6	29	5.3	e7.0	9.2	14	17	9.9	8.0	3.5	1.6	2.1
28	1.5	18	5.1	e6.8	9.0	12	30	8.9	10	3.4	1.5	1.8
29	1.5	12	4.9	e6.6	8.2	10	29	9.8	17	2.8	1.4	1.6
30	1.4	9.6	4.8	e6.4	---	10	25	8.5	13	2.9	1.3	1.6
31	1.4	---	4.8	e6.2	---	9.3	---	7.6	---	13	2.0	---
TOTAL	58.1	283.3	223.0	231.6	431.6	441.2	718.6	310.1	205.6	147.9	142.2	67.7
MEAN	1.87	9.44	7.19	7.47	14.9	14.2	24.0	10.0	6.85	4.77	4.59	2.26
MAX	3.7	67	21	20	58	57	83	22	18	13	19	6.8
MIN	1.0	1.7	4.8	4.0	4.1	5.6	8.6	5.1	2.9	2.1	1.3	1.2
CFSM	.34	1.73	1.32	1.37	2.73	2.61	4.39	1.83	1.26	.87	.84	.41
IN.	.40	1.93	1.52	1.58	2.94	3.01	4.90	2.11	1.40	1.01	.97	.46

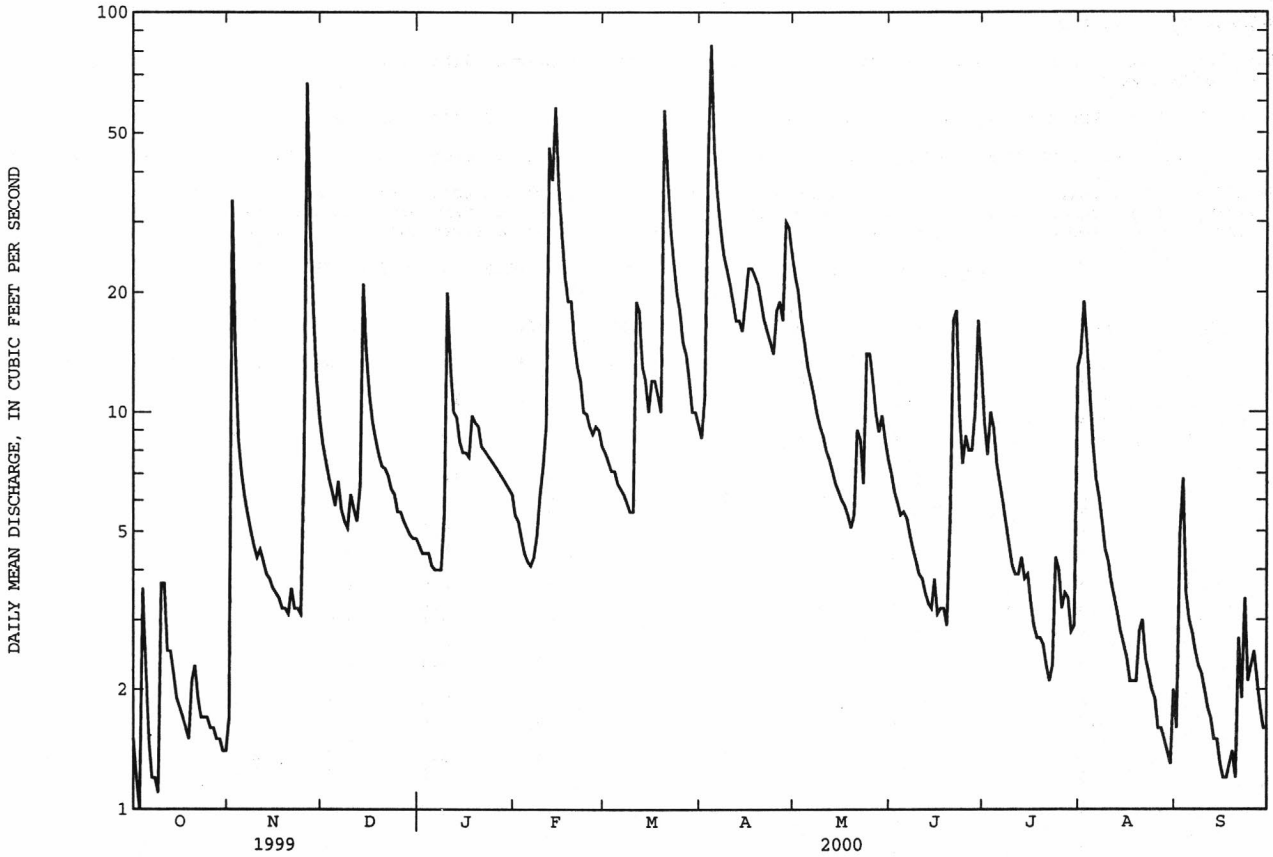
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2000@, BY WATER YEAR (WY)

MEAN	6.24	8.32	10.4	13.7	15.7	19.1	16.8	11.9	8.46	6.15	6.55	4.92
MAX	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	21.3
(WY)	1930	1980	1933	1937	1990	1975	1936	1973	1949	1949	1940	1928
MIN	.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	.83	.51
(WY)	1955	1955	1940	1940	1941	1988	1986	1948	1988	1998	1998	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1926 - 2000@	
ANNUAL TOTAL	2765.70		3260.9			
ANNUAL MEAN	7.58		8.91		10.7	
HIGHEST ANNUAL MEAN					17.8	1949
LOWEST ANNUAL MEAN					6.18	1981
HIGHEST DAILY MEAN	67	Nov 26	83	Apr 4	528	Aug 13 1940
LOWEST DAILY MEAN	.49	Sep 12	1.0	Oct 3	.30	Sep 30 1954
ANNUAL SEVEN-DAY MINIMUM	.57	Sep 9	1.3	Sep 14	.40	Sep 24 1954
INSTANTANEOUS PEAK FLOW			130	Apr 4	1370*	Aug 13 1940
INSTANTANEOUS PEAK STAGE			3.69	Apr 4	6.20	Aug 13 1940
INSTANTANEOUS LOW FLOW			.94*	Oct 3	.28*	Jul 24 1996
ANNUAL RUNOFF (CFSM)	1.39		1.63		1.96	
ANNUAL RUNOFF (INCHES)	18.84		22.22		26.62	
10 PERCENT EXCEEDS	17		19		22	
50 PERCENT EXCEEDS	5.7		6.1		7.3	
90 PERCENT EXCEEDS	1.1		1.7		1.6	

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

03450000 BEETREE CREEK NEAR SWANNANOA, NC--Continued



03451000 SWANNANOA RIVER AT BILTMORE, NC

LOCATION.--Lat 35°34'06", long 82°32'42", Buncombe County, Hydrologic Unit 06010105, on left bank at Biltmore, 100 ft downstream of Biltmore Avenue Bridge, 200 ft upstream from Southern Railway bridge, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--October 1920 to September 1926, May 1934 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 803: 1921(M), 1923(M), 1925(M). WSP 823: Drainage area. WSP 1306: 1921(M), 1924(M), 1926(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,976.58 ft above sea level (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, which are fair. Considerable regulation from 1925-50 (reservoir silted) by Lake Craig, 3.6 mi upstream from station. City of Asheville diverted an average of 32.2 ft^3/s from Burnett Lake (station 03448959) on North Fork Swannanoa River, 20 mi upstream from station and Bee Tree Lake on Beetree Creek (station 03450000), 13 mi upstream from station for water supply. An average of 31.1 ft^3/s was discharged downstream of station into the French Broad River as treated sewage effluent. Maximum discharge for period of record, from rating curve extended above 9,100 ft^3/s on basis of computation of peak flow over dam 3.6 mi upstream from station. Minimum discharge for period of record occurred several days in Oct. 1941. Minimum discharge for current water year also occurred Sept. 17.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed: 26 ft; discharge: 40,000 ft^3/s in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft; discharge, 23,000 ft^3/s, from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928 reached a stage of 18.74 ft, from floodmarks; discharge, 17,800 ft^3/s. High stages are subject to backwater from French Broad River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	32	65	42	66	98	117	216	81	71	110	39
2	23	307	61	42	64	93	136	196	72	66	219	36
3	22	116	56	43	61	87	567	177	66	60	247	55
4	81	76	52	42	64	87	1040	171	63	86	184	60
5	52	55	50	42	62	84	589	155	72	66	135	44
6	32	48	53	41	59	78	409	143	70	56	105	36
7	26	47	49	40	60	73	321	135	62	52	98	33
8	24	44	46	41	61	70	274	126	55	49	89	32
9	24	41	44	69	65	68	241	118	53	45	64	31
10	59	41	57	258	68	66	214	112	50	42	54	31
11	64	45	53	181	72	293	193	105	48	39	44	29
12	37	44	46	142	289	225	180	96	48	40	39	27
13	35	38	63	131	348	162	191	90	44	51	37	25
14	36	38	180	111	601	139	183	87	46	43	35	25
15	30	39	97	98	450	125	215	78	53	58	32	23
16	28	35	79	93	316	146	349	75	45	37	31	21
17	28	33	69	90	246	154	382	74	51	33	30	20
18	26	33	64	135	210	136	299	71	54	31	30	22
19	23	33	58	134	196	128	256	67	56	34	35	27
20	40	34	58	130	179	919	228	88	55	38	47	25
21	52	43	64	109	158	596	213	124	86	30	62	51
22	35	41	62	99	144	390	196	114	109	28	40	42
23	29	37	55	101	131	295	181	87	74	41	35	82
24	28	39	53	95	121	242	178	142	57	80	35	42
25	29	141	50	86	115	208	217	147	128	54	33	41
26	27	409	49	79	107	184	198	138	105	59	31	40
27	26	164	50	e74	118	176	185	118	90	50	30	34
28	26	107	48	e66	118	163	320	106	124	65	31	30
29	27	85	49	63	104	142	279	107	132	50	28	28
30	27	72	47	80	---	133	241	96	91	86	27	29
31	27	---	44	77	---	126	---	88	---	122	40	---
TOTAL	1049	2317	1871	2834	4653	5886	8592	3647	2140	1662	2057	1060
MEAN	33.8	77.2	60.4	91.4	160	190	286	118	71.3	53.6	66.4	35.3
MAX	81	409	180	258	601	919	1040	216	132	122	247	82
MIN	22	32	44	40	59	66	117	67	44	28	27	20
CFSM	.26	.59	.46	.70	1.23	1.46	2.20	.90	.55	.41	.51	.27
IN.	.30	.66	.54	.81	1.33	1.68	2.46	1.04	.61	.48	.59	.30

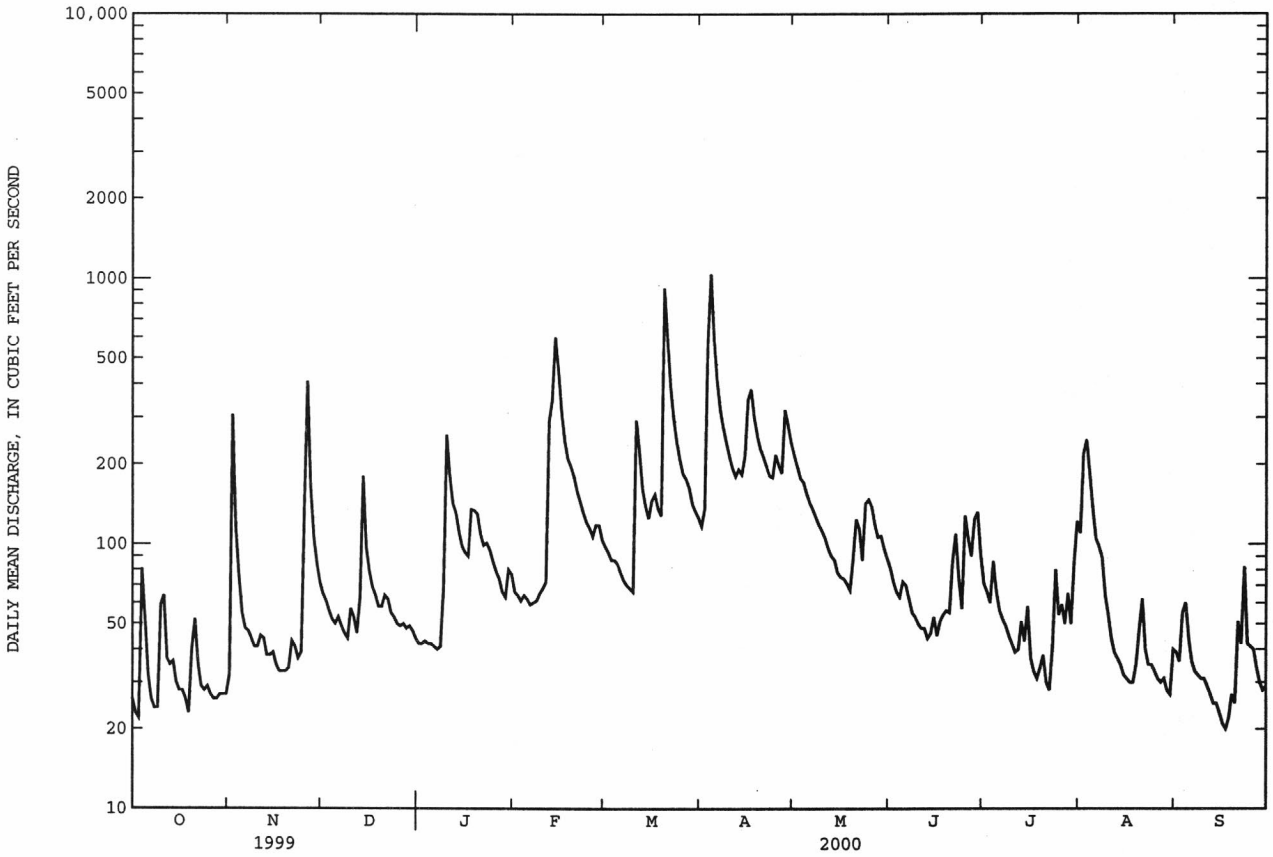
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000[@], BY WATER YEAR (WY)

MEAN	99.1	118	140	196	230	279	251	187	136	101	101	85.8
MAX	569	604	385	610	598	740	560	480	387	503	828	421
(WY)	1965	1980	1962	1995	1990	1975	1936	1973	1949	1949	1940	1979
MIN	13.7	27.0	35.3	32.3	65.7	45.7	55.6	45.5	17.7	18.2	18.8	13.8
(WY)	1955	1982	1989	1956	1988	1988	1986	1988	1988	1986	1956	1954

03451000 SWANNANOA RIVER AT BILTMORE, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000@	
ANNUAL TOTAL	26346.6		37768			
ANNUAL MEAN	72.2		103		160	
HIGHEST ANNUAL MEAN					277	1949
LOWEST ANNUAL MEAN					55.9	1988
HIGHEST DAILY MEAN	409	Nov 26	1040	Apr 4	7560	Aug 13 1940
LOWEST DAILY MEAN	9.7	Sep 26	20	Sep 17	1.2	Oct 14 1941
ANNUAL SEVEN-DAY MINIMUM	12	Sep 13	23	Sep 12	7.3	Sep 13 1953
INSTANTANEOUS PEAK FLOW			1520	Mar 20	18400*	Aug 13 1940
INSTANTANEOUS PEAK STAGE			5.41	Mar 20	19.00	Aug 13 1940
INSTANTANEOUS LOW FLOW			19*	Sep 16	1.1*	Oct 9 1941
ANNUAL RUNOFF (CFSM)	.56		.79		1.23	
ANNUAL RUNOFF (INCHES)	7.54		10.81		16.70	
10 PERCENT EXCEEDS	137		214		310	
50 PERCENT EXCEEDS	58		64		106	
90 PERCENT EXCEEDS	23		30		37	

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



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC

LOCATION.--Lat 35°36'33", long 82°34'43", Buncombe County, Hydrologic Unit 06010105, on right bank 27 ft upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 mi downstream of bridge on U.S. Highways 19 and 23, 3.2 mi downstream of Swannanoa River, and at mile 145.8.

DRAINAGE AREA.--945 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1895 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1895-1909, 1901(M), 1914-15(M), 1917(M), 1920-22(M),

GAGE.--Water-stage recorder. Datum of gage is 1,950.28 ft above sea level. 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 fair. 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 32.2 ft^3/s and 31.1 ft^3/s was discharged 4 mi downstream from station as treated effluent. Slight diurnal fluctuation and occasional slight regulation at low flow caused by power plant 46 mi upstream and small reservoirs upstream from station. Maximum discharge for period of record, from rating curve extended above 43,000 ft^3/s, by logarithmic plotting; maximum gage height, 23.10, from floodmarks. Minimum discharge for period of record occurred several days in Aug. and Sept. 1925. Minimum discharge for current water year also occurred Sept. 18.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	607	614	1520	1040	1220	1260	1620	1840	1030	1030	1420	591
2	494	2150	1400	1020	1170	1240	1630	1750	983	866	1780	706
3	442	2760	1310	1020	1130	1200	3410	1680	1050	808	2290	1120
4	598	1650	1200	1020	1160	1180	6540	2130	1200	811	2160	1170
5	1330	1240	1150	1180	1150	1170	5220	2600	1210	740	1740	1010
6	936	1080	1160	1130	1090	1120	3570	2060	1110	701	1380	771
7	621	993	1250	1020	1080	1090	2900	1850	1020	667	1170	707
8	522	927	1130	990	1090	1080	2580	1720	936	588	1490	691
9	499	853	1050	1080	1100	1070	2390	1630	889	557	1270	686
10	642	825	1080	2720	1120	1050	2180	1560	856	536	1120	626
11	2150	849	1280	3480	1120	1900	2040	1480	826	505	920	516
12	2100	823	1190	2210	1830	2470	1950	1410	796	503	802	498
13	1250	762	1160	1800	2580	1990	2020	1360	778	575	720	475
14	1040	745	2980	1590	3970	1590	2180	1330	798	853	655	472
15	919	709	3320	1450	3940	1450	2580	1240	824	916	596	651
16	793	679	2220	1370	2660	1480	3100	1210	801	710	537	482
17	730	645	1790	1330	2160	2360	2770	1190	884	544	515	431
18	667	645	1590	1410	1920	2250	2440	1190	1070	477	502	424
19	608	614	1470	1440	1850	1840	2230	1160	1040	471	553	439
20	676	618	1420	1430	1720	6710	2070	1150	930	491	554	456
21	1250	702	1460	1360	1580	7730	1970	1300	1190	453	797	559
22	1160	846	1490	1230	1500	6020	1870	1350	1080	434	858	1420
23	901	862	1430	1280	1420	3430	1780	1360	975	519	720	1370
24	780	795	1330	1310	1380	2720	1750	1470	858	1030	615	1170
25	724	1230	1270	1260	1330	2400	2010	1900	886	1470	562	1110
26	675	5020	1190	1180	1300	2190	2040	1590	862	1400	529	869
27	642	4840	1170	e1160	1330	2060	1820	1330	973	1110	486	780
28	620	3730	1130	e1130	1470	2000	2220	1220	1150	908	493	675
29	606	2140	1090	1150	1390	1830	2380	1180	1410	867	478	597
30	590	1730	1070	1180	---	1720	2020	1130	1280	959	456	550
31	587	---	1040	1310	---	1670	---	1070	---	1430	464	---
TOTAL	26159	42076	44340	43280	47760	69270	75280	46440	29695	23929	28632	22022
MEAN	844	1403	1430	1396	1647	2235	2509	1498	990	772	924	734
MAX	2150	5020	3320	3480	3970	7730	6540	2600	1410	1470	2290	1420
MIN	442	614	1040	990	1080	1050	1620	1070	778	434	456	424
CFSM	.89	1.48	1.51	1.48	1.74	2.36	2.66	1.59	1.05	.82	.98	.78
IN.	1.03	1.66	1.75	1.70	1.88	2.73	2.96	1.83	1.17	.94	1.13	.87

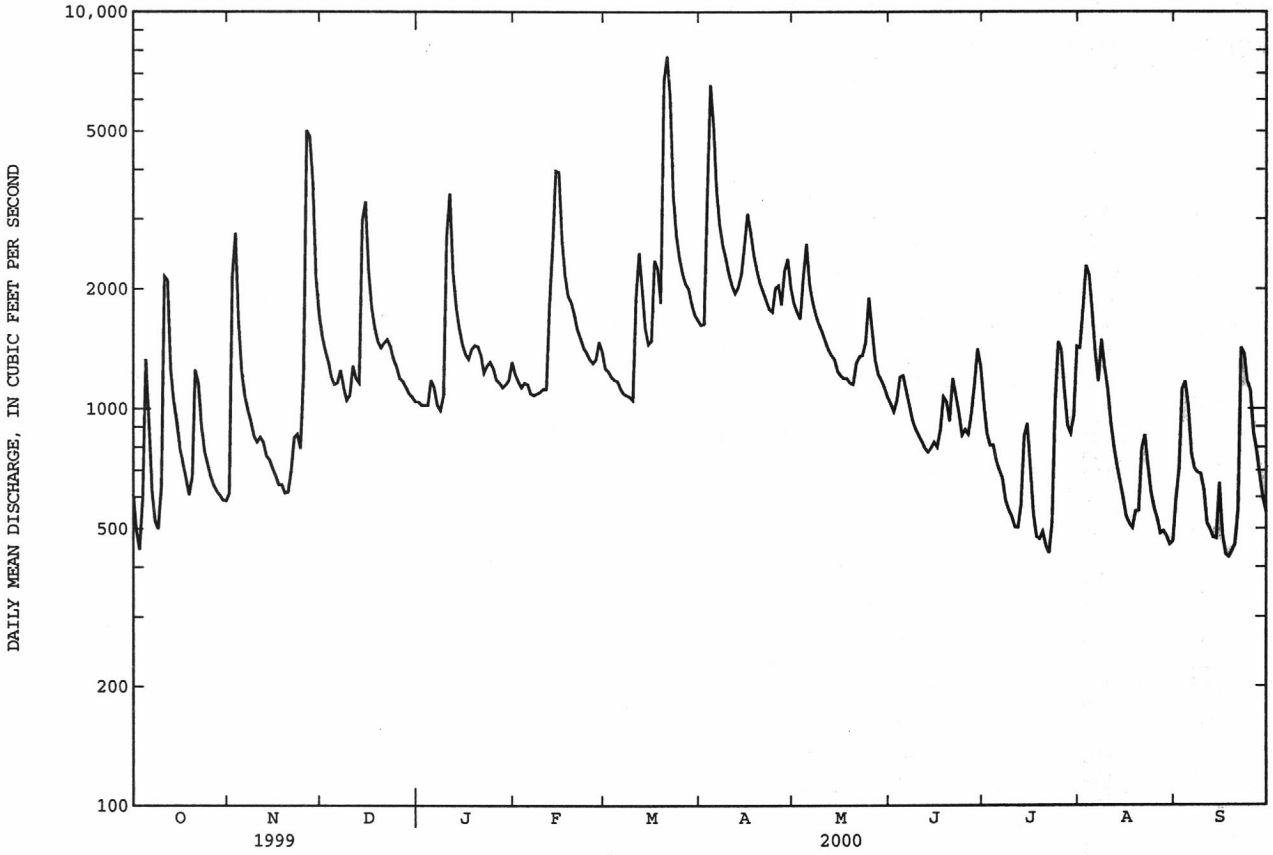
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2000, BY WATER YEAR (WY)

MEAN	1593	1628	2099	2445	2685	3028	2765	2193	1886	1697	1689	1456
MAX	7025	5121	5700	6068	6364	7928	5705	4961	5774	11500	8362	4967
(WY)	1965	1980	1915	1937	1998	1899	1899	1973	1909	1916	1901	1906
MIN	353	507	636	548	1083	1037	973	859	547	559	328	346
(WY)	1955	1932	1956	1956	1931	1988	1986	1988	1988	1986	1925	1954

03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1896 - 2000	
ANNUAL TOTAL	501459		498883			
ANNUAL MEAN	1374		1363		2094	
HIGHEST ANNUAL MEAN					3671	1901
LOWEST ANNUAL MEAN					1004	1988
HIGHEST DAILY MEAN	5320	Jan 24	7730	Mar 21	66000	Jul 16 1916
LOWEST DAILY MEAN	324	Sep 18	424	Sep 18	239	Sep 21 1925
ANNUAL SEVEN-DAY MINIMUM	344	Sep 15	479	Sep 14	258	Aug 24 1925
INSTANTANEOUS PEAK FLOW			10200	Mar 20	110000*	Jul 16 1916
INSTANTANEOUS PEAK STAGE			6.08	Mar 20	23.10*	Jul 16 1916
INSTANTANEOUS LOW FLOW			418*	Sep 17	239*	Aug 28 1925
ANNUAL RUNOFF (CFSM)	1.45		1.44		2.22	
ANNUAL RUNOFF (INCHES)	19.74		19.64		30.11	
10 PERCENT EXCEEDS	2220		2220		3660	
50 PERCENT EXCEEDS	1250		1160		1640	
90 PERCENT EXCEEDS	464		558		780	

e Estimated.
* See REMARKS.



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC--Continued

PRECIPITATION RECORDS

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

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.41	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00
2	.00	.50	.00	.00	.00	.00	.20	.00	.00	.00	.07	.82
3	.00	.02	.00	.01	.00	.00	1.45	.00	.04	.02	.09	.00
4	.60	.00	.00	.00	.00	.03	.07	.41	.00	.00	.07	.00
5	.00	.00	.04	.00	.00	.00	.00	.00	.23	.04	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	.18	.00	.02	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.67	.00
8	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.12	.00
9	.02	.00	.00	.38	.00	.00	.00	.00	.00	.00	.00	.00
10	.39	.00	.19	.64	.00	.00	.00	.02	.00	.00	.24	.00
11	.00	.10	.00	.00	.00	1.10	.00	.00	.00	.14	.00	.00
12	.00	.00	.00	.00	1.10	.01	.00	.00	.00	.09	.00	.00
13	.05	.00	.49	.12	.36	.00	.29	.00	.00	.02	.00	.00
14	.00	.00	.01	.00	.12	.00	.17	.00	.39	.52	.00	.00
15	.00	.00	.00	.00	.00	.00	.09	.00	.34	.15	.00	.00
16	.00	.00	.00	.04	.00	.23	.13	.00	.01	.00	.00	.00
17	.00	.00	.00	.03	.00	.01	.00	.00	.20	.00	.00	.00
18	.00	.00	.00	.23	.04	.00	.00	.00	.20	.00	.06	.00
19	.00	.00	.00	.09	.10	.11	.00	.00	.38	.22	.00	.00
20	.25	.09	.00	.03	.00	1.48	.00	.26	.00	.00	.69	.00
21	.00	.00	.18	.00	.00	.00	.01	.24	.00	.00	.00	.42
22	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00	.40
23	.00	.00	.00	.14	.00	.00	.00	.32	.00	1.04	.00	.32
24	.00	.08	.01	.00	.00	.00	.29	.45	.00	.59	.01	.00
25	.00	1.64	.00	.00	.00	.00	.24	.28	.02	.00	.00	.26
26	.00	.24	.00	.00	.00	.00	.01	.00	.14	.38	.00	.00
27	.00	.00	.00	.00	.25	.13	.00	.01	.11	.00	.13	.00
28	.00	.00	.00	.00	.00	.01	.75	.13	.37	.00	.00	.00
29	.00	.00	.00	.00	.00	.01	.00	.00	.25	.00	.00	.00
30	.00	.00	.00	.02	---	.11	.00	.00	.00	.13	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	1.06	.07	---
TOTAL	1.31	3.08	0.93	1.73	1.97	3.23	3.75	2.30	2.87	4.42	2.44	2.22

USGS hydrographer making a wading discharge measurement.

03453000 IVY RIVER NEAR MARSHALL, NC

LOCATION.--Lat 35°46'10", long 82°37'16", Madison County, Hydrologic Unit 06010105, on right bank 0.2 mi downstream from bridge on U.S. Highway 25-70, 1.9 mi upstream from mouth, and 4.0 mi southeast of Marshall.

DRAINAGE AREA.--158 mi^2.

PERIOD OF RECORD.--October 1933 to September 1973. July 1, 1994 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,700.41 ft above sea level (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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June, 1876, reached a stage of 16.0 ft, from studies by Tennessee Valley Authority (discharge 14,000 ft^3/s). An outstanding but lesser flood occurred in July, 1916 (stage and discharge unknown).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	34	71	47	78	89	105	247	75	113	183	38
2	27	185	64	47	71	85	114	216	70	85	158	33
3	25	128	60	46	86	80	372	190	65	71	127	150
4	47	72	56	47	79	79	1720	182	65	63	105	70
5	53	59	55	47	73	74	755	158	76	60	99	57
6	34	53	60	43	69	73	478	144	98	71	75	45
7	29	50	57	42	73	68	353	156	68	65	66	41
8	28	47	52	42	81	67	292	134	62	54	63	37
9	28	45	50	65	89	65	255	123	57	50	58	38
10	51	44	54	271	99	64	217	116	54	47	60	65
11	78	50	60	182	111	182	192	106	51	43	53	37
12	48	50	52	117	650	304	179	99	49	55	46	34
13	41	44	54	116	507	205	187	93	47	79	42	33
14	42	42	177	95	708	171	178	86	47	58	41	33
15	37	40	120	80	423	146	181	80	52	83	38	31
16	36	39	94	80	295	136	325	76	51	53	37	24
17	35	39	80	85	226	169	263	75	50	44	35	25
18	34	38	72	297	186	140	254	72	50	42	38	33
19	34	38	67	267	203	128	232	68	56	41	55	21
20	45	38	63	219	170	730	205	71	47	52	49	28
21	54	41	63	158	145	545	205	84	57	42	75	41
22	42	40	67	144	131	361	187	88	72	37	47	45
23	38	38	59	128	121	273	173	73	64	49	40	46
24	36	38	58	114	111	221	163	168	49	236	41	40
25	35	61	54	90	103	186	216	188	46	220	47	50
26	35	680	55	83	98	167	253	150	62	98	37	71
27	35	232	54	94	96	158	227	117	190	103	38	44
28	34	132	51	118	111	159	340	105	133	79	46	37
29	34	100	48	82	94	131	347	106	464	83	35	35
30	33	80	47	78	---	125	293	94	192	65	31	30
31	31	---	48	78	---	115	---	83	---	99	31	---
TOTAL	1191	2577	2022	3402	5287	5496	9261	3748	2519	2340	1896	1312
MEAN	38.4	85.9	65.2	110	182	177	309	121	84.0	75.5	61.2	43.7
MAX	78	680	177	297	708	730	1720	247	464	236	183	150
MIN	25	34	47	42	69	64	105	68	46	37	31	21
CFSM	.24	.54	.41	.69	1.15	1.12	1.95	.77	.53	.48	.39	.28
IN.	.28	.61	.48	.80	1.24	1.29	2.18	.88	.59	.55	.45	.31

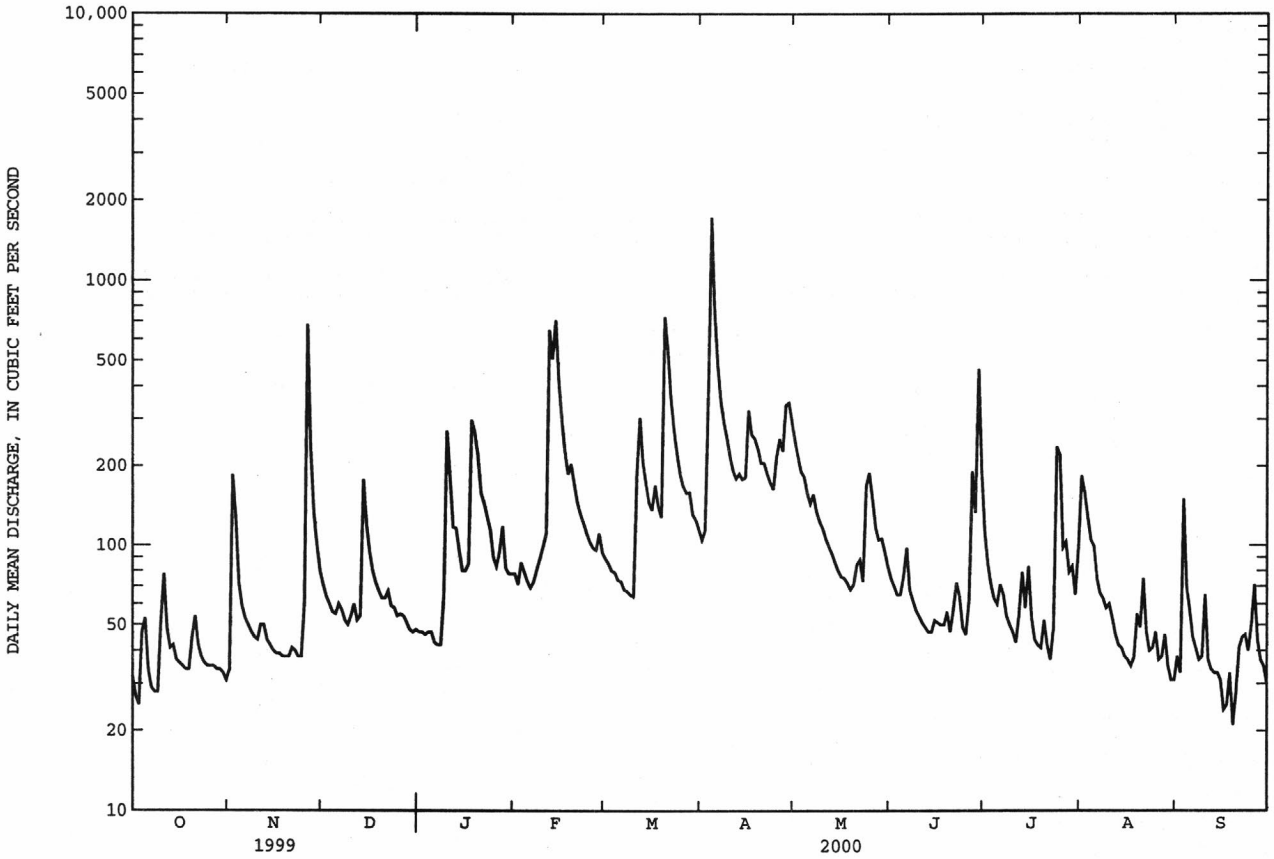
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2000@, BY WATER YEAR (WY)

MEAN	77.5	92.5	134	216	266	313	241	158	111	95.8	87.1	60.2
MAX	367	229	407	636	563	848	574	328	272	280	444	141
(WY)	1965	1950	1962	1937	1957	1963	1936	1946	1950	1949	1940	1949
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1934 - 2000@	
ANNUAL TOTAL	42139		41051			
ANNUAL MEAN	115		112		154	
HIGHEST ANNUAL MEAN					232	1936
LOWEST ANNUAL MEAN					92.1	1941
HIGHEST DAILY MEAN	1260	May 8	1720	Apr 4	8010	Mar 12 1963
LOWEST DAILY MEAN	14	Sep 17	21	Sep 19	8.5	Sep 2 1953
ANNUAL SEVEN-DAY MINIMUM	16	Sep 13	28	Sep 14	9.8	Aug 28 1953
INSTANTANEOUS PEAK FLOW			2630	Apr 4	14400	Mar 26 1965
INSTANTANEOUS PEAK STAGE			8.72	Apr 4	17.21	Jan 14 1995
INSTANTANEOUS LOW FLOW			6.1*	Oct 31	3.0*	Jan 20 1940
ANNUAL RUNOFF (CFSM)	.73		.71		.97	
ANNUAL RUNOFF (INCHES)	9.92		9.67		13.20	
10 PERCENT EXCEEDS	240		220		301	
50 PERCENT EXCEEDS	80		70		96	
90 PERCENT EXCEEDS	29		37		35	

@ See PERIOD OF RECORD.
* See REMARKS.

03453000 IVY RIVER NEAR MARSHALL, NC--Continued



03453500 FRENCH BROAD RIVER AT MARSHALL, NC

LOCATION.--Lat 35°47'10", long 82°39'39", Madison County, Hydrologic Unit 06010105, on right bank 0.7 mi upstream from Hayes Creek, 1.0 mi downstream of Ivy River, 1.5 mi southeast of Marshall, and at mile 126.7.

DRAINAGE AREA.--1,332 mi^2.

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1436: 1954(M).

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft above sea level (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 ft^3/s. Flood of Aug. 30, 1940, reached a stage of 16.6 ft; discharge, 70,000 ft^3/s, from high water marks, flood profiles, and studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	936	805	1650	1090	1370	1420	1850	2350	1160	1250	1800	687
2	781	1960	1490	1070	1280	1390	1840	2180	1090	1030	1680	769
3	693	3200	1410	1070	1250	1340	3930	2060	1050	925	2530	1170
4	814	1990	1290	1070	1280	1310	9760	2360	1270	918	2290	1230
5	1410	1460	1230	1170	1280	1290	7020	3030	1350	881	1930	1120
6	1300	1260	1230	1220	1220	1250	4940	2460	1280	868	1520	873
7	930	1160	1300	1080	1200	1210	3790	2180	1130	853	1300	778
8	782	1100	1230	1040	1210	1190	3250	2020	1030	786	1520	753
9	750	1050	1130	1140	1240	1170	2930	1890	977	742	1370	755
10	851	1010	1130	2800	1270	1160	2640	1790	949	718	1230	760
11	1890	1030	1300	4290	1290	2000	2430	1700	916	701	1010	688
12	2380	1030	1290	2660	2890	3080	2320	1610	894	706	893	656
13	1460	974	1190	2080	3710	2500	2360	1540	868	755	814	624
14	1190	947	2850	e1860	5050	1930	2580	1490	874	870	761	616
15	1080	922	3920	e1680	5230	1710	2890	1410	928	1110	734	699
16	978	899	2550	1510	3470	1660	3770	1350	893	881	701	668
17	912	878	1980	1470	2680	2460	3410	1320	901	749	680	574
18	868	871	1720	1930	2300	2640	2980	1330	1090	670	678	551
19	828	862	1590	1900	2220	2110	2670	1280	1140	648	731	559
20	858	847	1490	1810	2060	8070	2480	1270	1010	697	701	605
21	1240	907	1540	e1680	1840	8910	2360	1420	1200	643	908	719
22	1320	967	1570	e1540	1740	7110	2240	1510	1200	605	896	1210
23	1080	1060	1520	1480	1640	4530	2120	1470	1080	628	853	1470
24	953	971	1420	1490	1580	3370	2050	1780	950	1210	742	1230
25	901	1280	1340	1440	1520	2880	2370	2160	895	1720	719	1170
26	870	6080	1270	e1420	1480	2600	2520	1990	1060	1480	682	1030
27	849	5540	1240	1300	1470	2420	2260	1540	1230	1300	649	864
28	829	4450	1210	e1340	1640	2370	2870	1390	1150	1020	671	787
29	816	2480	1160	e1350	1570	2140	3200	1360	2240	963	648	726
30	806	1910	1140	1290	---	2010	2650	1280	1580	986	606	677
31	794	---	1110	1430	---	1920	---	1210	---	1370	611	---
TOTAL	32149	49900	47490	49700	57980	81150	94480	53730	33385	28683	32858	25018
MEAN	1037	1663	1532	1603	1999	2618	3149	1733	1113	925	1060	834
MAX	2380	6080	3920	4290	5230	8910	9760	3030	2240	1720	2530	1470
MIN	693	805	1110	1040	1200	1160	1840	1210	868	605	606	551
CFSM	.78	1.25	1.15	1.20	1.50	1.97	2.36	1.30	.84	.69	.80	.63
IN.	.90	1.39	1.33	1.39	1.62	2.27	2.64	1.50	.93	.80	.92	.70

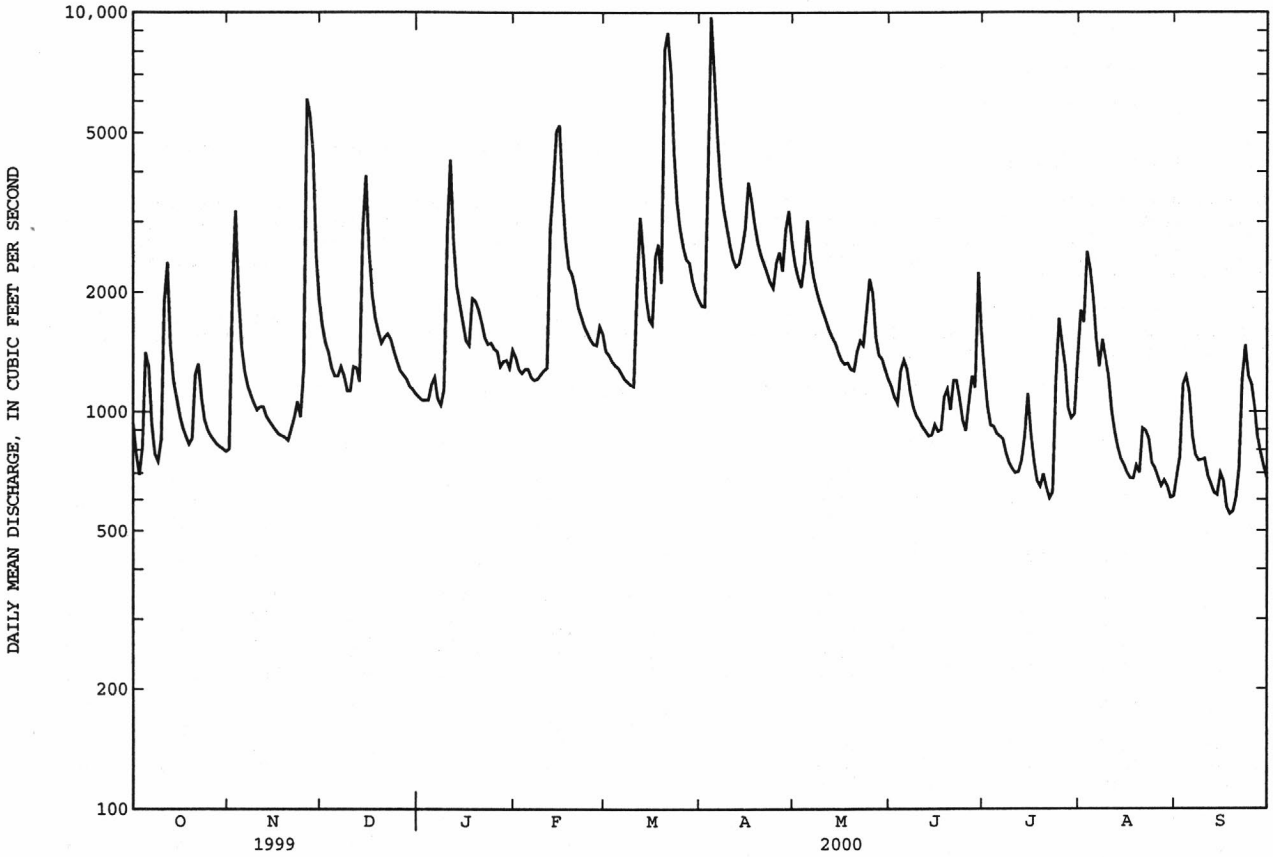
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2000, BY WATER YEAR (WY)

MEAN	1784	2022	2426	2945	3371	3778	3428	2678	2189	1754	1766	1530
MAX	8172	5640	5465	6279	7373	7170	6149	5478	4191	5071	4905	3857
(WY)	1965	1980	1962	1998	1998	1975	1983	1973	1989	1949	1994	1950
MIN	450	651	778	715	1571	1235	1191	1066	700	708	635	384
(WY)	1955	1955	1956	1956	1988	1988	1986	1988	1988	1986	1956	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1943 - 2000	
ANNUAL TOTAL	625610		586523			
ANNUAL MEAN	1714		1603		2468	
HIGHEST ANNUAL MEAN					3573	1949
LOWEST ANNUAL MEAN					1229	1988
HIGHEST DAILY MEAN	6430	Jan 24	9760	Apr 4	30800	Oct 5 1964
LOWEST DAILY MEAN	445	Sep 19	551	Sep 18	292	Sep 27 1954
ANNUAL SEVEN-DAY MINIMUM	478	Sep 15	610	Sep 14	313	Sep 24 1954
INSTANTANEOUS PEAK FLOW			12200	Mar 20	54000	Nov 6 1977
INSTANTANEOUS PEAK STAGE			5.75	Mar 20	13.64	Nov 6 1977
INSTANTANEOUS LOW FLOW			488	Aug 30	193*	Sep 13 1954
ANNUAL RUNOFF (CFSM)	1.29		1.20		1.85	
ANNUAL RUNOFF (INCHES)	17.47		16.38		25.17	
10 PERCENT EXCEEDS	2790		2660		4410	
50 PERCENT EXCEEDS	1520		1280		1970	
90 PERCENT EXCEEDS	714		733		902	

e Estimated.
* See REMARKS.

03453500 FRENCH BROAD RIVER AT MARSHALL, NC--Continued



03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC

LOCATION.--Lat 35°23'46", long 82°56'17", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft upstream from Big Creek, 1.1 mi upstream from Lake Logan, 6.7 mi southeast of Hazelwood, and at mile 9.3.

DRAINAGE AREA.--27.6 mi^2.

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

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmarks. Minimum discharge for period of record also occurred Sept. 30, 1954. Minimum discharge for current water year also occurred Oct. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	33	75	51	e52	71	89	79	48	29	120	e37
2	16	446	70	50	e51	68	182	75	45	27	159	e36
3	15	66	65	50	e52	65	511	82	43	26	97	e45
4	59	48	61	59	e53	65	510	144	43	25	81	e42
5	25	42	59	51	e50	61	254	88	47	24	66	e33
6	18	38	87	47	e50	59	206	81	44	24	52	e34
7	17	35	60	45	e50	57	177	76	40	24	45	e35
8	16	33	56	44	e50	55	163	72	38	23	40	e36
9	17	31	55	134	50	54	145	69	36	22	38	e28
10	167	30	102	338	52	52	132	66	35	21	37	e26
11	68	29	69	127	65	171	122	61	34	20	34	e24
12	32	28	61	99	200	122	115	59	33	26	32	e23
13	35	27	203	91	158	84	129	56	36	35	30	e23
14	30	26	368	77	403	77	126	54	36	30	29	e26
15	25	25	137	73	160	72	155	51	35	35	27	e22
16	24	24	109	e70	129	142	129	49	33	23	26	e18
17	22	24	96	e68	114	128	113	49	52	21	e24	e18
18	22	24	87	e77	118	96	107	47	53	20	e27	e18
19	21	23	81	e70	153	109	100	46	45	21	e28	e22
20	70	24	88	e72	114	1010	93	48	38	21	e29	e18
21	45	86	87	e60	101	294	96	50	35	20	e36	e32
22	31	36	85	e100	94	213	88	56	33	19	e28	e29
23	28	32	73	e72	88	177	83	46	31	21	e26	e48
24	25	33	67	e62	83	156	85	276	28	50	e25	e36
25	24	544	64	e56	79	139	102	91	28	38	e24	e34
26	23	776	e61	e58	76	125	86	70	27	33	e22	e40
27	22	170	58	e66	100	128	79	62	27	42	e23	29
28	22	120	55	e64	83	114	110	65	34	36	e23	25
29	21	99	53	e60	75	103	96	58	48	138	e21	24
30	21	84	52	e55	---	100	85	54	34	66	e19	22
31	21	---	52	e54	---	98	---	51	---	64	e28	---
TOTAL	1000	3036	2696	2400	2903	4265	4468	2231	1139	1024	1296	883
MEAN	32.3	101	87.0	77.4	100	138	149	72.0	38.0	33.0	41.8	29.4
MAX	167	776	368	338	403	1010	511	276	53	138	159	48
MIN	15	23	52	44	50	52	79	46	27	19	19	18
CFSM	1.17	3.67	3.15	2.81	3.63	4.98	5.40	2.61	1.38	1.20	1.51	1.07
IN.	1.35	4.09	3.63	3.23	3.91	5.75	6.02	3.01	1.54	1.38	1.75	1.19

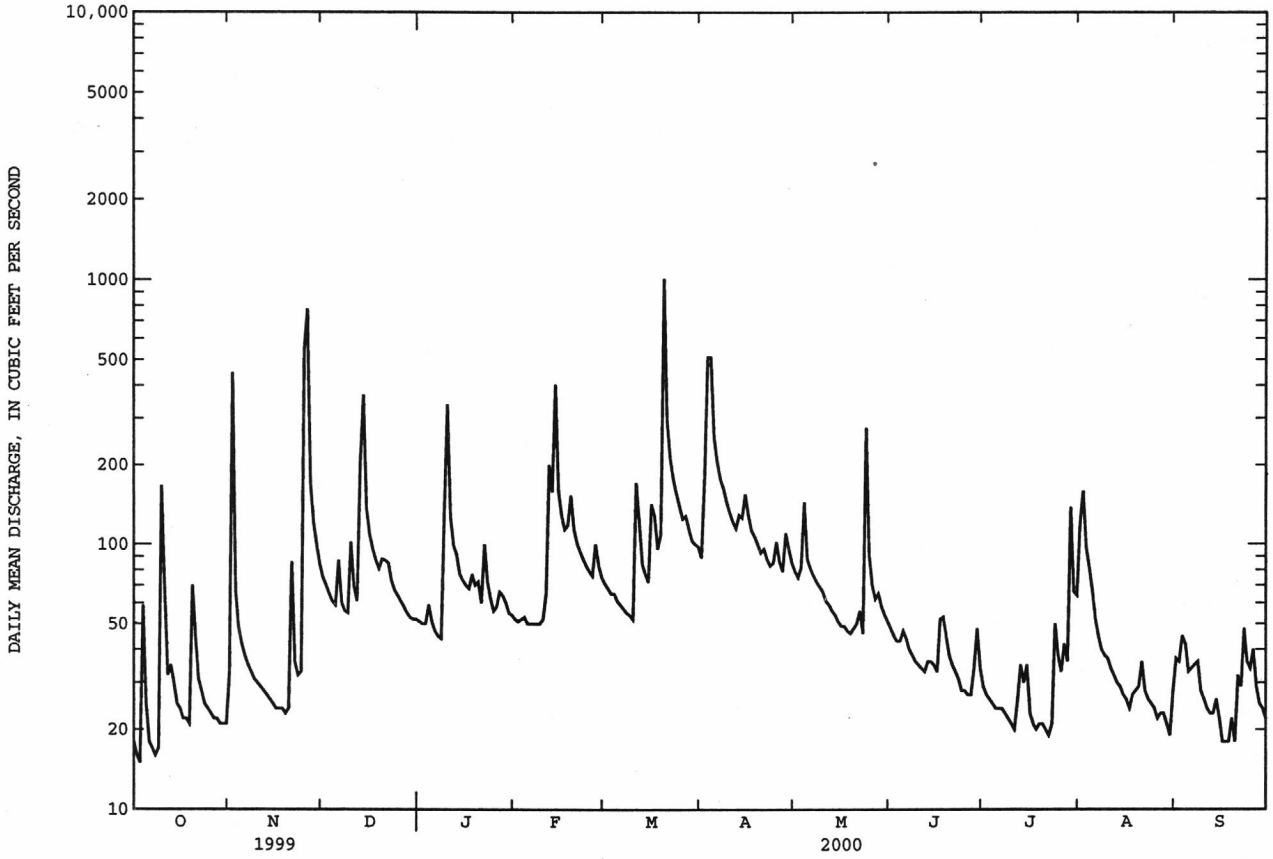
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	72.7	89.2	110	129	155	166	144	108	83.1	58.7	58.5	55.4
MAX	229	301	234	272	355	312	291	289	213	207	187	260
(WY)	1965	1980	1962	1998	1966	1975	1983	1976	1967	1967	1994	1979
MIN	13.5	26.8	29.7	34.0	68.7	53.8	47.8	51.6	30.8	23.3	16.4	13.0
(WY)	1955	1979	1966	1981	1968	1988	1986	1988	1988	1993	1998	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	28137		27341			
ANNUAL MEAN	77.1		74.7		103	
HIGHEST ANNUAL MEAN					143	1979
LOWEST ANNUAL MEAN					59.6	1986
HIGHEST DAILY MEAN	776	Nov 26	1010	Mar 20	4500	Feb 13 1966
LOWEST DAILY MEAN	13	Sep 12	15	Oct 3	10	Sep 28 1954
ANNUAL SEVEN-DAY MINIMUM	13	Sep 12	20	Sep 14	11	Sep 11 1998
INSTANTANEOUS PEAK FLOW			4500	Nov 25	9740	Feb 13 1966
INSTANTANEOUS PEAK STAGE			7.22	Nov 25	9.50*	Feb 13 1966
INSTANTANEOUS LOW FLOW			15*	Oct 2	9.4*	Sep 29 1954
ANNUAL RUNOFF (CFSM)	2.79		2.71		3.72	
ANNUAL RUNOFF (INCHES)	37.92		36.85		50.56	
10 PERCENT EXCEEDS	135		133		187	
50 PERCENT EXCEEDS	61		52		71	
90 PERCENT EXCEEDS	19		23		26	

e Estimated.
* See REMARKS.

03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC--Continued



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC

LOCATION.--Lat 35°25'15", long 82°55'30", Haywood County, Hydrologic Unit 06010106, at Lake Logan Dam on West Fork Pigeon River near Hazelwood, and at river mi 7.0.

DRAINAGE AREA.--33.3 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1997 to current year. Records for October 1986 to January 1991 and November 1995 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is 2,856.23 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records good. Total capacity is 1,040 ft^3/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330).

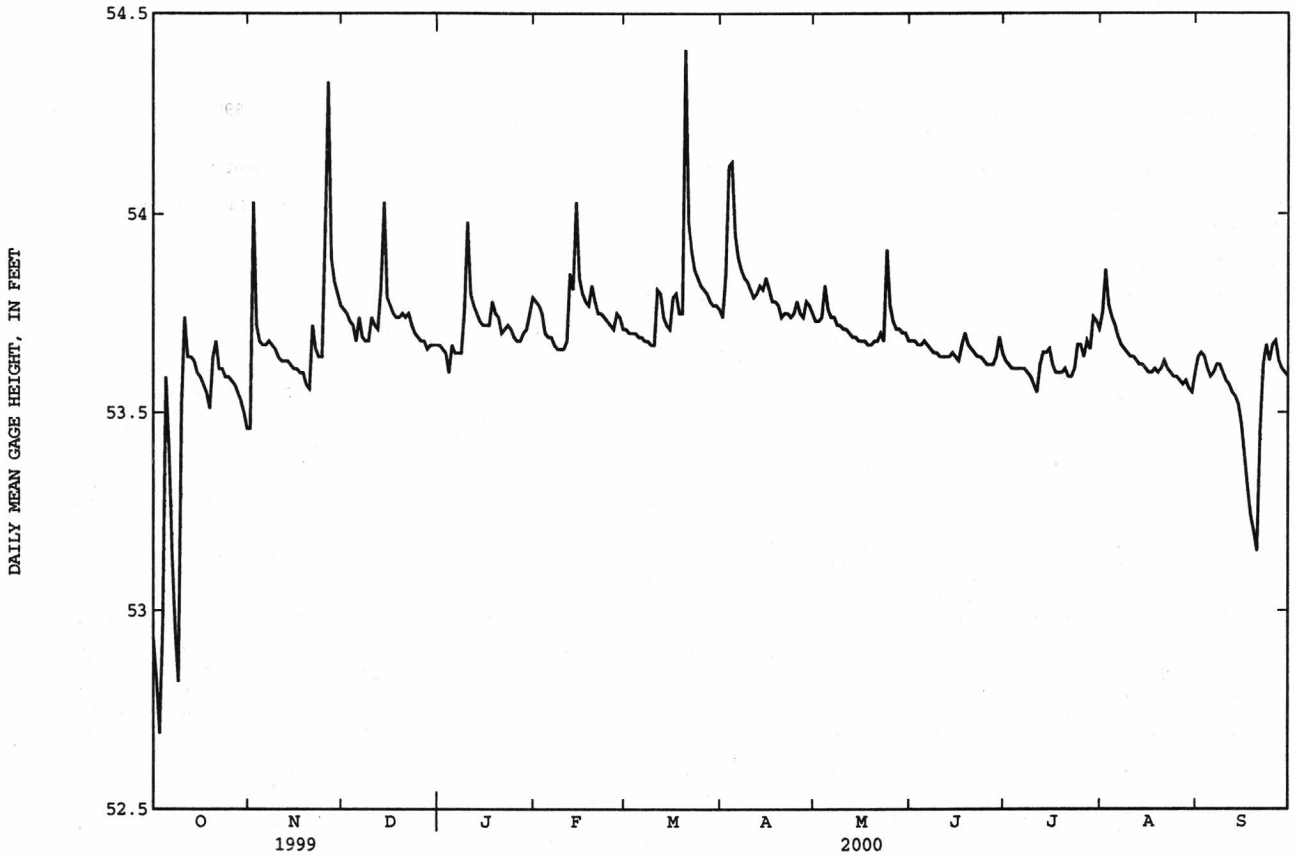
EXTREMES FOR PERIOD OF RECORD.--Maximum, 56.46 ft, Jan. 7, 1998; minimum, 46.42 ft, Sept. 21, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum, 55.84 ft, Nov. 25; minimum, 52.59 ft, Oct. 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.93	53.46	53.76	53.67	53.78	53.71	53.74	53.73	53.68	53.63	53.75	53.64
2	52.83	54.03	53.75	53.66	53.77	53.70	53.85	53.73	53.68	53.62	53.86	53.65
3	52.69	53.72	53.73	53.65	53.75	53.70	54.12	53.74	53.67	53.61	53.77	53.64
4	52.97	53.68	53.72	53.60	53.70	53.70	54.13	53.82	53.67	53.61	53.74	53.61
5	53.59	53.67	53.68	53.67	53.69	53.69	53.95	53.76	53.68	53.61	53.72	53.59
6	53.41	53.67	53.74	53.65	53.69	53.69	53.89	53.74	53.67	53.61	53.69	53.60
7	53.14	53.68	53.69	53.65	53.67	53.68	53.86	53.74	53.66	53.61	53.67	53.62
8	52.95	53.67	53.68	53.65	53.66	53.68	53.84	53.72	53.65	53.60	53.66	53.62
9	52.82	53.66	53.68	53.76	53.66	53.67	53.83	53.72	53.65	53.59	53.65	53.60
10	53.52	53.64	53.74	53.98	53.66	53.67	53.81	53.71	53.64	53.57	53.64	53.58
11	53.74	53.63	53.72	53.80	53.68	53.81	53.79	53.71	53.64	53.55	53.64	53.57
12	53.64	53.63	53.71	53.77	53.85	53.80	53.80	53.70	53.64	53.62	53.63	53.55
13	53.64	53.63	53.82	53.75	53.81	53.74	53.82	53.69	53.64	53.65	53.62	53.54
14	53.63	53.62	54.03	53.73	54.03	53.72	53.81	53.69	53.65	53.65	53.62	53.52
15	53.60	53.61	53.79	53.72	53.84	53.71	53.84	53.68	53.64	53.66	53.61	53.47
16	53.59	53.61	53.77	53.72	53.80	53.79	53.81	53.68	53.63	53.62	53.60	53.39
17	53.57	53.60	53.75	53.72	53.78	53.80	53.78	53.68	53.67	53.60	53.60	53.31
18	53.55	53.60	53.74	53.78	53.77	53.75	53.78	53.67	53.70	53.60	53.61	53.24
19	53.51	53.57	53.74	53.75	53.82	53.75	53.77	53.67	53.67	53.60	53.60	53.20
20	53.64	53.56	53.75	53.74	53.78	54.41	53.74	53.68	53.66	53.61	53.61	53.15
21	53.68	53.72	53.74	53.70	53.75	53.98	53.75	53.68	53.65	53.59	53.63	53.45
22	53.61	53.66	53.75	53.71	53.75	53.91	53.75	53.70	53.64	53.59	53.61	53.62
23	53.61	53.64	53.72	53.72	53.74	53.86	53.74	53.68	53.64	53.61	53.60	53.67
24	53.59	53.64	53.70	53.71	53.73	53.84	53.75	53.91	53.63	53.67	53.59	53.63
25	53.59	53.95	53.69	53.69	53.72	53.82	53.78	53.77	53.62	53.67	53.59	53.67
26	53.58	54.33	53.68	53.68	53.71	53.81	53.75	53.73	53.62	53.64	53.58	53.68
27	53.57	53.89	53.68	53.68	53.75	53.80	53.74	53.71	53.62	53.68	53.57	53.63
28	53.55	53.83	53.66	53.70	53.74	53.78	53.78	53.71	53.64	53.66	53.58	53.61
29	53.53	53.80	53.67	53.71	53.71	53.77	53.77	53.70	53.69	53.74	53.56	53.60
30	53.50	53.77	53.67	53.75	---	53.77	53.75	53.70	53.65	53.73	53.55	53.59
31	53.46	---	53.67	53.79	---	53.76	---	53.68	---	53.71	53.60	---
MEAN	53.43	53.71	53.73	53.72	53.75	53.78	53.82	53.72	53.65	53.63	53.64	53.54
MAX	53.74	54.33	54.03	53.98	54.03	54.41	54.13	53.91	53.70	53.74	53.86	53.68
MIN	52.69	53.46	53.66	53.60	53.66	53.67	53.74	53.67	53.62	53.55	53.55	53.15

03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC--Continued



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC

PRECIPITATION RECORDS

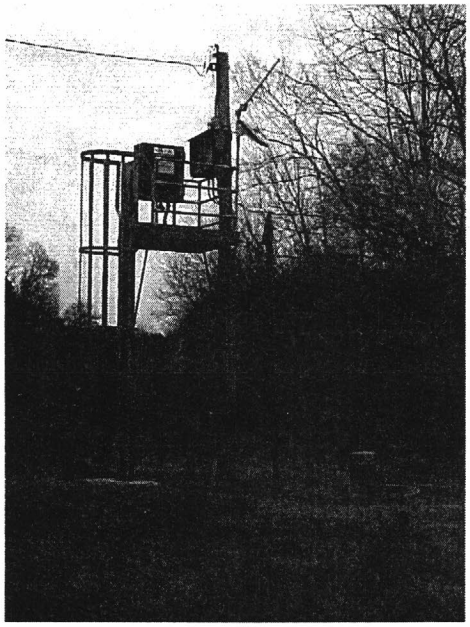
PERIOD OF RECORD.--December 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at site.

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.35	.00	.00	.04	.00	.00	.00	.00	.00	.46	.16
2	.00	1.07	.00	.00	.06	.00	.88	.00	.00	.00	.18	.38
3	.00	.02	.00	.00	.03	.00	2.51	.34	.11	.00	.15	.01
4	.67	.00	.00	.26	.00	.01	.10	.25	.00	.00	.10	.00
5	.00	.00	.46	.00	.00	.00	.00	.00	.43	.00	.00	.00
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.06	.01	.01
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.07
8	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00
9	.02	.00	.02	.96	.00	.00	.00	.00	.00	.00	.00	.00
10	.92	.00	.48	1.44	.00	.00	.00	.00	.00	.00	.12	.00
11	.01	.03	.00	.00	.00	1.53	.00	.00	.00	.18	.00	.00
12	.00	.00	.00	.00	1.14	.00	.00	.00	.00	.24	.00	.00
13	.01	.00	1.39	.04	.64	.00	.41	.00	.00	.06	.00	.00
14	.00	.00	.07	.00	.40	.00	.37	.00	.00	.00	.00	.00
15	.00	.00	.01	.00	.00	.00	.11	.00	.27	.79	.00	.00
16	.00	.00	.00	.00	.00	.63	.09	.00	.10	.00	.00	.00
17	.00	.00	.00	.02	.00	.11	.00	.00	.14	.00	.00	.00
18	.00	.00	.00	.25	.13	.00	.01	.00	.01	.00	.61	.00
19	.00	.00	.00	.29	.24	.61	.00	.00	.42	.14	.00	.00
20	.66	.06	.00	.24	.00	1.94	.00	.46	.02	.00	.40	.00
21	.00	.24	.20	.00	.00	.00	.12	.18	.00	.00	.00	.41
22	.00	.00	.01	.00	.00	.00	.00	.01	.15	.00	.00	.19
23	.00	.01	.00	.01	.00	.00	.00	.52	.00	1.03	.06	.47
24	.00	.00	.00	.00	.00	.00	.33	1.40	.00	.74	.01	.08
25	.00	2.89	.00	.01	.00	.00	---	.33	.01	.04	.00	.58
26	.00	.51	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.32	.29	.00	.00	.03	.11	.21	.00
28	.00	.00	.00	.06	.00	.00	.71	.05	.40	.20	.00	.00
29	.00	.00	.00	.00	.00	.01	.00	.11	.32	.02	.00	.00
30	.00	.00	.00	.08	---	.02	.00	.00	.00	.10	.04	.00
31	.00	---	.00	.01	---	.00	---	.00	---	.39	.25	---
TOTAL	2.29	5.18	2.65	3.67	3.00	5.15	---	3.65	2.41	4.16	2.60	2.36



USGS gaging station at Rocky River above
Irish Buffalo Creek near Rocky River.

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC

LOCATION.--Lat 35°25'36", long 82°55'12", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on State Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi^2.

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,839 ft above sea level, 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 ft^3/s by logarithmic plotting. Minimum discharge for period of record also occurred July 11, 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	23	76	51	66	86	101	89	58	38	136	44
2	19	572	71	51	62	82	242	83	55	35	265	50
3	19	98	67	52	62	80	642	92	53	31	153	44
4	20	66	60	e50	61	78	783	179	52	29	124	30
5	32	56	62	50	57	74	350	105	60	29	107	26
6	30	48	99	44	55	71	273	94	55	30	82	27
7	29	45	63	43	55	68	232	87	50	31	70	36
8	21	43	57	42	55	66	206	82	46	28	61	34
9	21	41	56	166	54	64	181	79	45	27	54	27
10	161	38	120	510	56	62	162	76	42	27	53	23
11	107	35	78	167	71	230	145	70	41	22	45	21
12	40	33	66	118	292	177	135	67	40	33	43	20
13	39	32	225	105	220	108	155	63	41	49	39	20
14	37	31	575	87	632	97	144	63	48	50	37	20
15	28	28	165	81	239	90	194	61	46	57	34	19
16	25	27	122	82	180	178	155	59	39	33	32	20
17	24	26	106	80	152	178	130	58	55	28	31	20
18	23	25	95	134	157	122	119	56	82	26	32	20
19	23	29	88	102	210	125	109	53	62	28	30	20
20	76	24	96	93	145	1380	103	61	50	28	31	19
21	70	118	94	68	125	416	102	62	46	23	41	50
22	39	53	95	77	115	286	94	71	44	22	34	36
23	31	44	78	93	108	229	89	59	40	29	30	64
24	27	44	71	82	102	195	92	345	36	70	27	37
25	26	551	e66	e74	97	167	116	119	34	66	25	71
26	25	1160	e62	e62	92	147	96	90	33	42	24	76
27	24	226	59	e62	122	150	88	79	33	67	24	39
28	23	137	57	66	104	134	128	81	42	54	24	31
29	23	106	52	e70	90	117	112	73	71	163	22	27
30	23	88	52	107	---	115	95	65	51	118	21	26
31	23	---	52	79	---	114	---	61	---	96	34	---
TOTAL	1127	3847	3085	2948	3836	5486	5573	2682	1450	1409	1765	997
MEAN	36.4	128	99.5	95.1	132	177	186	86.5	48.3	45.5	56.9	33.2
MAX	161	1160	575	510	632	1380	783	345	82	163	265	76
MIN	19	23	52	42	54	62	88	53	33	22	21	19

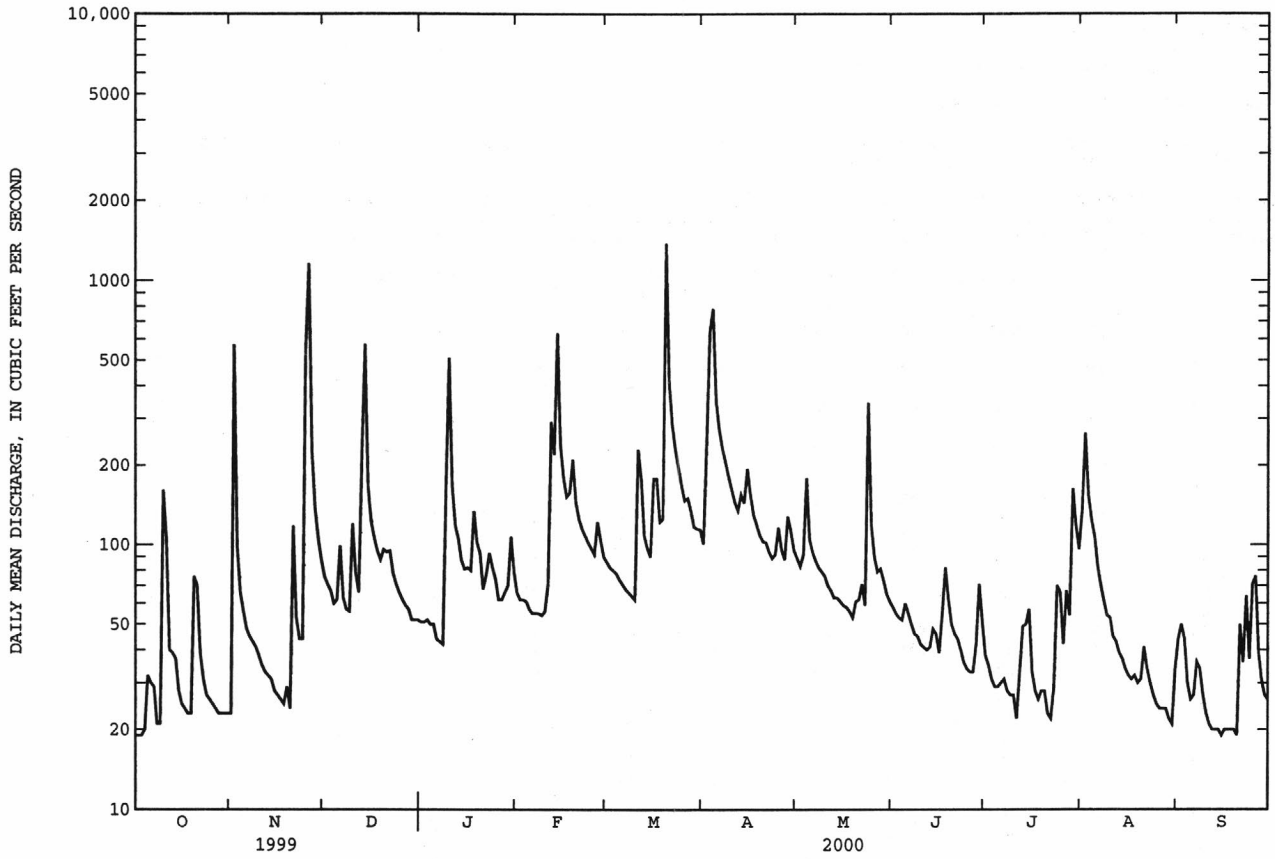
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	89.0	104	120	187	203	206	160	119	103	68.5	80.9	58.4
MAX	262	265	239	314	360	309	268	193	210	209	220	136
(WY)	1996	1993	1993	1996	1990	1990	1994	1990	1989	1989	1994	1989
MIN	18.5	34.7	52.1	95.1	116	62.6	72.2	62.9	40.0	31.3	24.7	17.3
(WY)	1999	1999	1989	2000	1992	1988	1995	1988	1988	1993	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	33092		34205			
ANNUAL MEAN	90.7		93.5		127	
HIGHEST ANNUAL MEAN					157	1996
LOWEST ANNUAL MEAN					79.0	1999
HIGHEST DAILY MEAN	1160	Nov 26	1380	Mar 20	2940	Oct 5 1995
LOWEST DAILY MEAN	16	Sep 20	19	Oct 1	15	Sep 27 1998
ANNUAL SEVEN-DAY MINIMUM	17	Sep 19	20	Sep 14	16	Sep 11 1998
INSTANTANEOUS PEAK FLOW			4880	Nov 25	7960*	Aug 17 1994
INSTANTANEOUS PEAK STAGE			6.92	Nov 25	8.97	Aug 17 1994
INSTANTANEOUS LOW FLOW			17*	Jul 11	17*	Oct 8 1993
10 PERCENT EXCEEDS	157		166		235	
50 PERCENT EXCEEDS	69		62		86	
90 PERCENT EXCEEDS	20		25		31	

e Estimated.
* See REMARKS.

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC--Continued



03456100 WEST FORK PIGEON RIVER AT BETHEL, NC

LOCATION.--Lat 35°27'48", long 82°54'00", Haywood County, Hydrologic Unit 06010106, on left bank 20 ft downstream of bridge on Secondary Road 1112, 0.6 mi southwest of Bethel, 1.6 mi upstream from confluence with East Fork Pigeon River, and 5.6 mi downstream of Lake Logan.

DRAINAGE AREA.--58.4 mi^2.

PERIOD OF RECORD.--January 1981 to current year.

REVISED RECORDS.--WDR NC-95-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,667.78 ft above sea level (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). Minimum discharge for current water year also occurred many days in Sept.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	32	104	77	99	115	156	140	80	55	103	48
2	31	497	97	77	93	109	244	133	77	52	230	48
3	30	83	93	75	92	102	608	137	75	49	135	46
4	39	56	86	85	91	101	983	226	80	47	111	37
5	41	48	86	79	86	98	461	157	87	46	97	34
6	39	44	115	72	84	97	364	144	84	47	77	34
7	39	42	87	70	84	94	316	136	75	47	68	38
8	32	41	81	69	84	91	281	130	72	44	61	40
9	32	40	79	154	82	87	248	128	69	44	56	34
10	112	39	121	479	84	86	224	120	67	43	55	31
11	94	37	100	206	95	199	210	108	65	41	50	30
12	40	36	87	157	295	206	196	106	64	48	47	30
13	37	35	152	140	258	143	204	103	63	55	45	30
14	39	35	560	122	592	130	187	99	70	61	42	30
15	33	34	192	115	264	123	254	96	68	68	41	30
16	31	34	154	113	208	176	219	94	61	49	39	30
17	30	33	134	111	184	202	196	91	70	43	39	30
18	30	33	121	146	178	155	183	89	99	41	41	30
19	30	34	116	127	212	150	174	84	78	42	40	30
20	57	32	119	e114	174	1550	166	88	69	43	38	29
21	64	83	117	99	156	547	162	88	65	39	46	46
22	40	47	119	e102	145	373	152	94	64	39	39	42
23	35	39	105	117	137	305	144	100	60	47	36	57
24	33	39	98	110	130	265	145	363	56	79	35	40
25	32	296	89	e94	124	235	172	164	53	79	34	51
26	32	1340	e86	88	119	215	150	125	53	54	33	68
27	32	230	e83	e86	139	214	138	110	52	69	33	40
28	31	160	e81	e88	134	205	181	110	56	64	33	34
29	31	131	79	92	123	184	167	104	79	122	31	32
30	31	115	79	127	---	175	149	96	67	113	31	31
31	31	---	79	109	---	170	---	89	---	86	36	---
TOTAL	1240	3745	3699	3700	4546	6902	7434	3852	2078	1756	1802	1130
MEAN	40.0	125	119	119	157	223	248	124	69.3	56.6	58.1	37.7
MAX	112	1340	560	479	592	1550	983	363	99	122	230	68
MIN	30	32	79	69	82	86	138	84	52	39	31	29

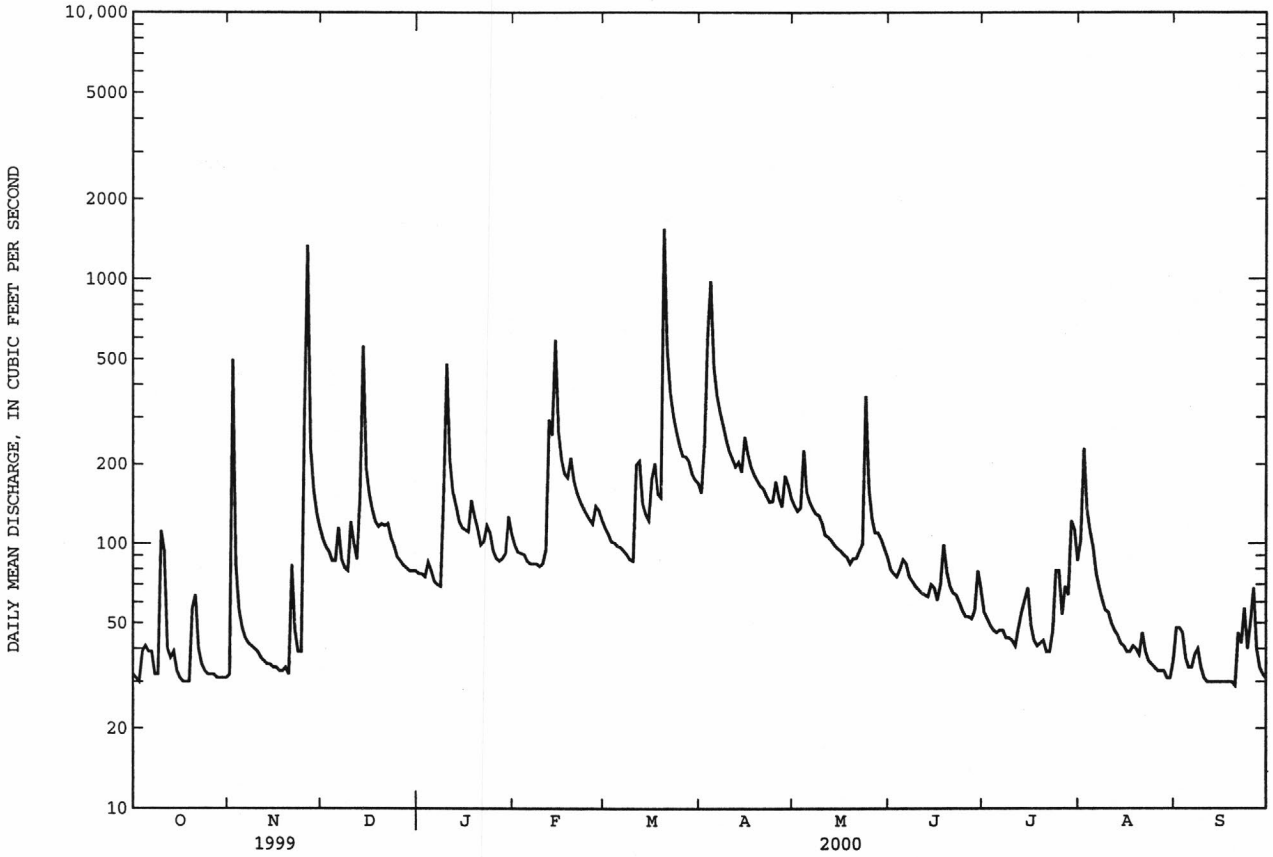
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000, BY WATER YEAR (WY)

MEAN	95.8	128	170	214	264	274	228	169	119	85.6	92.5	69.8
MAX	336	341	334	450	522	461	481	368	287	281	317	207
(WY)	1996	1993	1984	1998	1998	1997	1983	1984	1992	1989	1994	1989
MIN	30.5	43.0	83.5	53.5	102	83.6	83.5	81.7	53.0	45.8	29.3	27.6
(WY)	1999	1982	1989	1981	1986	1988	1986	1986	1988	1993	1993	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1981 - 2000	
ANNUAL TOTAL	42698		41884			
ANNUAL MEAN	117		114		161	
HIGHEST ANNUAL MEAN					211	1996
LOWEST ANNUAL MEAN					87.5	1988
HIGHEST DAILY MEAN	1340	Nov 26	1550	Mar 20	3810	Feb 2 1983
LOWEST DAILY MEAN	26	Sep 1	29	Sep 20	9.2	Sep 2 1986
ANNUAL SEVEN-DAY MINIMUM	26	Sep 4	30	Sep 14	16	Sep 2 1986
INSTANTANEOUS PEAK FLOW			5050	Nov 26	8900	Aug 17 1994
INSTANTANEOUS PEAK STAGE			8.06	Nov 26	12.63	Aug 17 1994
INSTANTANEOUS LOW FLOW			29*	Sep 16	4.2	Sep 5 1986
10 PERCENT EXCEEDS	209		206		307	
50 PERCENT EXCEEDS	95		84		108	
90 PERCENT EXCEEDS	31		33		44	

e Estimated.
* See REMARKS.

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC--Continued



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°27'42", long 82°52'13", Haywood County, Hydrologic Unit 06010106, on right bank 800 ft upstream from bridge on U.S. Highway 276, 0.3 mi downstream of Dix Creek, 1.6 mi upstream from confluence with West Fork Pigeon River, and 5.2 mi southwest of Canton.

DRAINAGE AREA.--51.5 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR NC-73-1: 1966(M), 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft above sea level (Tennessee Valley Authority bench mark). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from rating curve extended above 5,470 ft^3/s, on basis of contracted-opening measurement of peak flow. Minimum discharge for period of record also occurred Dec. 11, 1981, result of freezeup, and Oct. 9, 1994. Minimum discharge for current water year also occurred Oct. 3, 4 and Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	31	122	70	e64	84	130	128	66	41	62	42
2	18	350	109	68	e63	81	160	122	64	39	225	41
3	17	105	99	66	e64	78	353	122	63	38	115	57
4	41	74	91	72	65	77	676	219	64	35	86	48
5	39	63	86	67	61	74	366	161	65	34	69	36
6	23	57	102	62	61	71	295	150	63	35	57	37
7	20	53	82	61	61	69	252	140	58	34	51	41
8	20	51	76	59	61	68	227	132	55	31	47	42
9	20	48	73	86	61	66	203	124	54	31	45	34
10	97	47	101	222	62	65	186	118	51	29	45	29
11	82	46	85	138	68	143	172	110	50	29	40	26
12	42	45	78	114	172	153	163	105	48	40	38	25
13	37	43	113	108	149	112	173	100	47	44	36	25
14	37	42	520	95	349	104	167	94	48	43	34	28
15	31	41	229	90	211	97	237	90	47	54	32	23
16	29	39	184	87	174	127	196	86	45	36	30	21
17	28	38	159	84	152	145	186	83	49	30	28	21
18	27	38	142	95	144	121	173	79	57	28	31	21
19	26	37	129	86	143	122	163	75	52	28	33	24
20	41	37	130	88	125	1380	154	79	51	29	33	21
21	56	82	121	74	115	544	150	76	51	26	43	35
22	37	54	117	123	109	370	141	85	49	26	34	33
23	33	48	105	87	103	292	133	76	45	35	30	66
24	31	51	99	76	99	246	133	165	42	94	29	40
25	30	282	91	68	94	215	151	109	41	71	27	38
26	30	1240	89	71	90	193	132	92	49	50	25	48
27	28	309	84	e80	102	184	123	83	45	43	29	34
28	28	209	80	e78	97	170	161	79	45	41	29	30
29	27	168	77	e74	87	155	146	77	57	56	24	28
30	28	141	74	e68	---	148	135	73	49	49	23	27
31	28	---	72	e66	---	144	---	69	---	54	35	---
TOTAL	1054	3869	3719	2683	3206	5898	6037	3301	1570	1253	1465	1021
MEAN	34.0	129	120	86.5	111	190	201	106	52.3	40.4	47.3	34.0
MAX	97	1240	520	222	349	1380	676	219	66	94	225	66
MIN	17	31	72	59	61	65	123	69	41	26	23	21
CFSM	.66	2.50	2.33	1.68	2.15	3.69	3.91	2.07	1.02	.78	.92	.66
IN.	.76	2.79	2.69	1.94	2.32	4.26	4.36	2.38	1.13	.91	1.06	.74

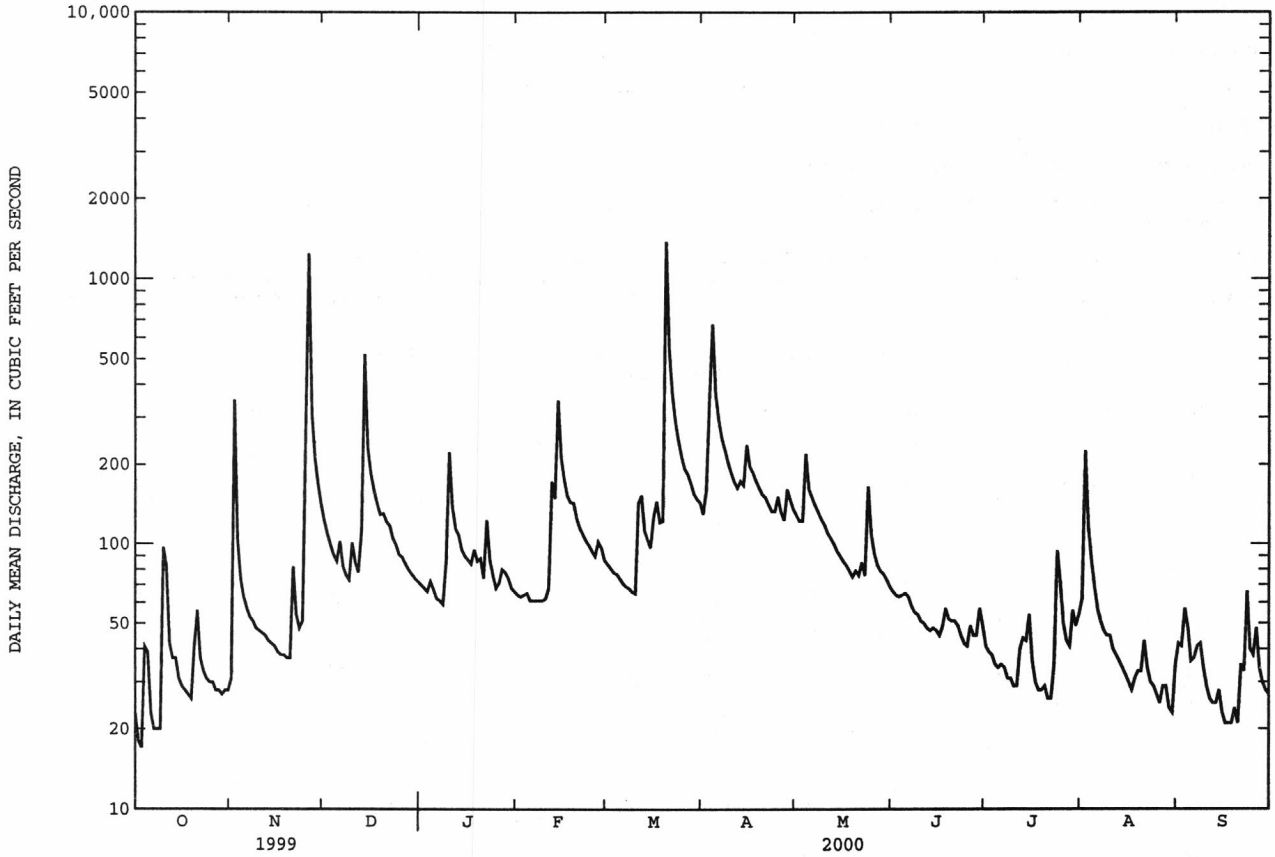
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	110	132	145	170	207	237	210	156	117	73.1	77.6	79.5
MAX	363	484	337	444	517	541	480	453	339	268	263	436
(WY)	1965	1980	1962	1998	1998	1979	1957	1976	1967	1989	1994	1979
MIN	17.1	27.9	42.4	33.8	71.9	60.9	63.2	59.8	35.7	25.3	25.9	16.0
(WY)	1955	1955	1956	1956	1986	1988	1986	1986	1988	1986	1998	1954

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	35076			
ANNUAL MEAN	95.8		143	
HIGHEST ANNUAL MEAN			204	1979
LOWEST ANNUAL MEAN			71.9	1988
HIGHEST DAILY MEAN	1380	Mar 20	4390	Feb 13 1966
LOWEST DAILY MEAN	17	Oct 3	13	Sep 13 1998
ANNUAL SEVEN-DAY MINIMUM	23	Sep 14	13	Sep 12 1998
INSTANTANEOUS PEAK FLOW	3780	Nov 26	12000*	May 28 1973
INSTANTANEOUS PEAK STAGE	6.23	Nov 26	11.19	May 28 1973
INSTANTANEOUS LOW FLOW	17*	Oct 2	12*	Jan 9 1956
ANNUAL RUNOFF (CFSM)	1.86		2.78	
ANNUAL RUNOFF (INCHES)	25.34		37.79	
10 PERCENT EXCEEDS	172		267	
50 PERCENT EXCEEDS	68		100	
90 PERCENT EXCEEDS	29		35	

e Estimated.
* See REMARKS.

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC--Continued



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC--Continued

PRECIPITATION RECORDS

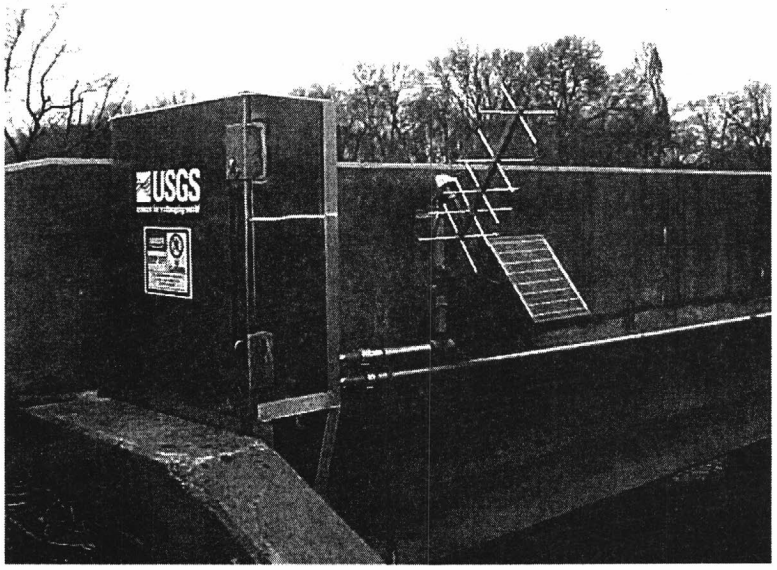
PERIOD OF RECORD.--October 1999 to September 2000.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at site.

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.53	.00	.00	.05	.00	.00	.00	.00	.00	.32	.12
2	.00	1.06	.00	.00	.06	.00	.35	.00	.00	.00	.28	.10
3	.00	.08	.00	.00	.02	.00	2.02	.50	.07	.00	.29	.09
4	.79	.00	.00	.26	.00	.00	.12	.13	.00	.00	.06	.05
5	.00	.00	.19	.00	.00	.00	.00	.00	.56	.01	.00	.02
6	.00	.00	.01	.00	.00	.00	.00	.00	.00	.03	.00	.01
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.06
8	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00
9	.00	.00	.00	.56	.00	.00	.00	.00	.00	.00	.00	.00
10	.74	.00	.32	.94	.00	.01	.00	.03	.00	.00	.13	.00
11	.00	.04	.00	.00	.00	.98	.00	.00	.00	.68	.00	.00
12	.00	.00	.00	.00	1.13	.00	.00	.00	.00	.28	.00	.00
13	.02	.00	.80	.10	.39	.00	.31	.00	.00	.10	.00	.00
14	.00	.00	.05	.00	.43	.00	.31	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.15	.00	.14	.54	.00	.00
16	.00	.00	.00	.01	.00	.30	.09	.00	.12	.00	.00	.00
17	.00	.00	.00	.02	.00	.02	.01	.00	.46	.00	.00	.00
18	.00	.00	.00	.25	.07	.00	.00	.00	.00	.00	.40	.00
19	.00	.00	.00	.13	.08	.50	.07	.00	.35	.07	.00	.00
20	.57	.06	.00	.06	.00	1.88	.00	.53	.00	.00	.47	.00
21	.00	.18	.18	.00	.00	.00	.03	.17	.00	.00	.01	.35
22	.00	.00	.00	.00	.00	.00	.00	.01	.64	.00	.00	.25
23	.00	.04	.00	.00	.00	.00	.00	.55	.00	.46	.00	.20
24	.00	.00	.00	.03	.00	.00	.28	.98	.00	.76	.03	.04
25	.00	2.23	.00	.01	.00	.00	.05	.47	.00	.05	.00	.36
26	.00	.41	.00	.00	.00	.00	.00	.01	.84	.00	.00	.00
27	.00	.00	.00	.00	.18	.25	.00	.01	.44	.02	.36	.00
28	.00	.00	.00	.06	.00	.00	.76	.15	.29	.22	.00	.00
29	.00	.00	.00	.01	.00	.00	.01	.02	.34	.01	.00	.00
30	.00	.00	.00	.23	---	.01	.00	.00	.00	.03	.03	.00
31	.00	---	.00	.02	---	.00	---	.00	---	.32	.20	---
TOTAL	2.12	4.63	1.55	2.69	2.41	3.95	4.59	3.56	4.25	3.60	2.58	1.65



USGS gaging station at Rocky River near Stanfield.

03456991 PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°31'19", long 82°50'53", Haywood County, Hydrologic Unit 06010106, on right bank 600 ft upstream from State Highway 215 bridge, 1.3 mi upstream from U.S. Highways 19 and 23 at Canton, and at mile 64.9.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods published in WSP 1306. Published as Pigeon River at Canton, NC (03457000) May 1907 to June 1909, October 1928 to September 1983.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1903(M). WDR NC-91-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,581.66 ft above sea level (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 fair. Occasional diurnal fluctuation and considerable regulation at low flow, since 1932, caused by Lake Logan (station 03455773) on West Fork Pigeon River 11.2 mi upstream. Prior to regulation, maximum discharge: 21,500 ft^3/s, Aug. 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft^3/s, Sept. 3, 1930. Maximum discharge and gage height for period of record, at former site from high water mark in gage well; minimum discharge for period of record, at former site, result of freezeup. Minimum discharge for current water year also occurred Oct. 9, Sept. 20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft; discharge, 25,700 ft^3/s, at former site, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	65	238	151	156	217	316	322	182	113	193	115
2	61	812	218	148	159	208	412	305	177	107	453	104
3	59	249	204	145	161	195	926	e310	169	100	302	123
4	83	165	186	158	157	194	1720	e520	181	96	228	110
5	100	138	179	153	154	186	857	e380	191	95	196	85
6	73	123	225	135	147	182	688	e360	188	94	160	82
7	69	114	179	132	151	177	604	324	164	95	140	88
8	61	107	163	128	151	172	548	311	152	89	125	103
9	58	100	157	212	149	166	494	302	148	88	117	84
10	193	96	221	687	153	164	451	284	141	83	117	76
11	251	93	204	378	166	313	422	262	137	83	104	70
12	110	89	173	291	440	409	400	253	134	104	96	67
13	87	86	236	264	392	278	416	246	129	111	92	66
14	93	83	1040	232	894	256	383	235	140	129	88	68
15	76	79	445	214	504	241	532	228	137	147	82	63
16	70	76	357	209	407	292	461	222	126	102	79	60
17	68	73	309	204	360	384	428	216	140	84	77	59
18	64	73	277	246	340	298	402	211	188	78	83	60
19	64	74	256	e210	373	285	384	201	155	78	109	62
20	88	73	258	e220	322	2920	366	207	139	82	90	60
21	166	166	248	e190	291	1090	358	211	139	75	143	80
22	92	131	251	e300	273	753	341	223	132	71	91	103
23	75	100	220	e210	260	615	328	212	123	86	75	137
24	71	102	206	e190	247	535	325	559	112	182	74	106
25	68	336	187	e170	238	479	372	351	107	181	70	94
26	68	2820	186	e180	227	436	333	281	112	126	68	156
27	66	575	177	e200	248	421	308	245	117	125	71	95
28	65	397	170	e190	259	404	387	236	117	118	76	80
29	64	321	161	e185	229	363	369	228	156	156	68	74
30	64	271	156	e170	---	347	338	214	144	209	64	72
31	64	---	155	e165	---	341	---	200	---	146	74	---
TOTAL	2654	7987	7642	6667	8008	13321	14669	8659	4377	3433	3805	2602
MEAN	85.6	266	247	215	276	430	489	279	146	111	123	86.7
MAX	251	2820	1040	687	894	2920	1720	559	191	209	453	156
MIN	58	65	155	128	147	164	308	200	107	71	64	59

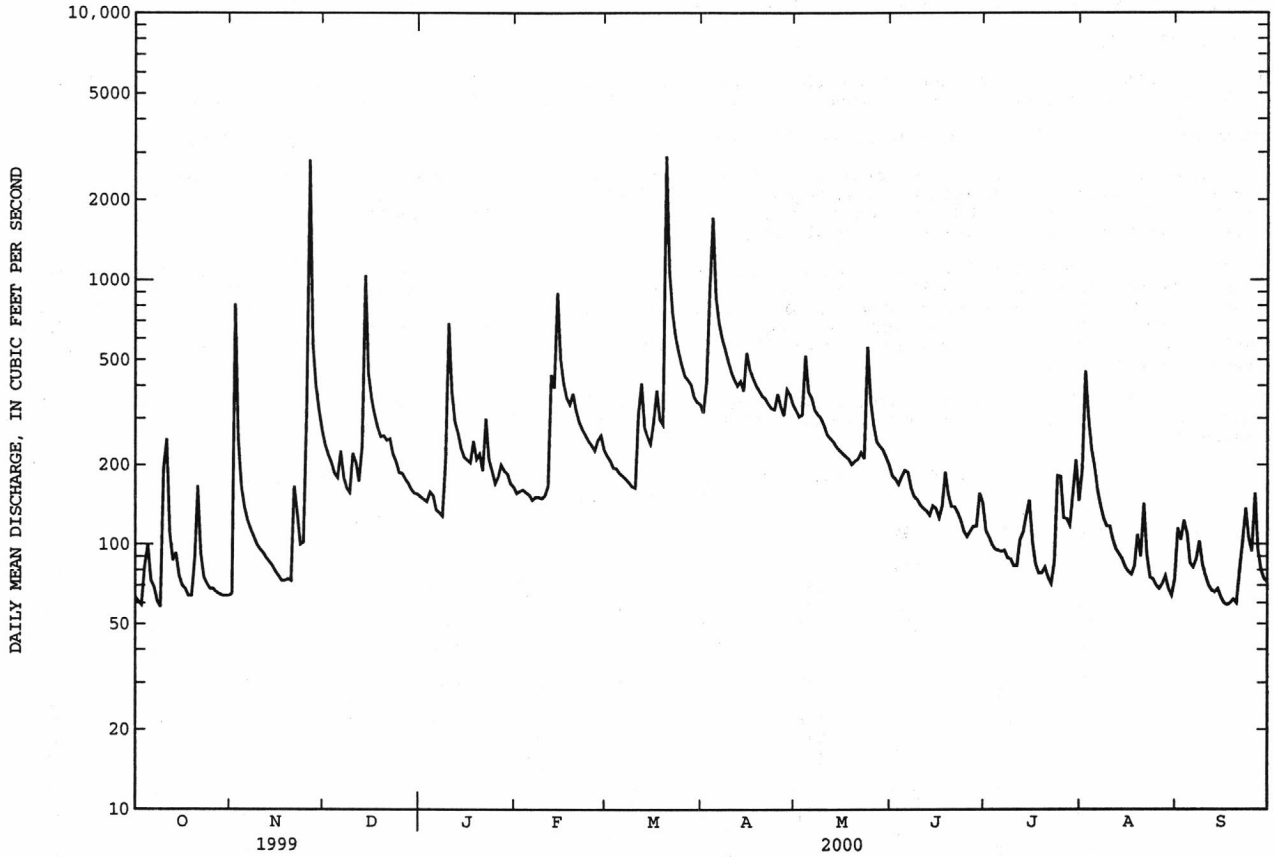
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2000*, BY WATER YEAR (WY)

MEAN	224	265	323	427	482	539	470	337	264	191	201	187
MAX	787	964	872	1017	1150	1058	1005	981	781	583	1476	818
(WY)	1965	1980	1933	1937	1939	1975	1983	1976	1967	1989	1940	1979
MIN	48.2	59.2	64.5	85.3	150	155	167	132	96.5	89.7	65.9	47.8
(WY)	1955	1955	1940	1956	1941	1988	1986	1941	1941	1993	1954	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1932 - 2000*	
ANNUAL TOTAL	83929		83824			
ANNUAL MEAN	230		229		325	
HIGHEST ANNUAL MEAN					503	1949
LOWEST ANNUAL MEAN					170	1988
HIGHEST DAILY MEAN	2820	Nov 26	2920	Mar 20	12800	Aug 13 1940
LOWEST DAILY MEAN	46	Sep 13	58	Oct 9	27	Sep 7 1954
ANNUAL SEVEN-DAY MINIMUM	48	Sep 7	62	Sep 14	40	Sep 13 1998
INSTANTANEOUS PEAK FLOW			8600	Nov 26	31600*	Aug 30 1940
INSTANTANEOUS PEAK STAGE			9.03	Nov 26	20.75*	Aug 30 1940
INSTANTANEOUS LOW FLOW			57*	Oct 8	15*	Jan 8 1956
10 PERCENT EXCEEDS	396		405		612	
50 PERCENT EXCEEDS	188		166		231	
90 PERCENT EXCEEDS	64		73		86	

e Estimated.
* Regulated period only (1932-2000). See REMARKS.

03456991 PIGEON RIVER NEAR CANTON, NC--Continued



03459500 PIGEON RIVER NEAR HEPCO, NC

LOCATION.--Lat 35°38'05", long 82°59'21", Haywood County, Hydrologic Unit 06010106, on left bank 95 ft east of Interstate Highway 40, 0.8 mi downstream of Jonathan Creek, 2.0 mi south of Hepco, 2.4 mi upstream from Fines Creek, and at mile 45.1.

DRAINAGE AREA.--350 mi^2.

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 1937-39(M).

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above sea level (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable regulation by Lake Junaluska (station 03458319) on Richland Creek and Lake Logan (station 03455773) on West Fork Pigeon River for periods at low flow, combined capacity of reservoirs, about 2,000 ft^3/s-day. Maximum discharge for period of record, from rating curve extended above 12,000 ft^3/s on basis of slope-area measurements at gage heights 14.94 and 15.82 ft. Maximum gage height for period of record from high-water mark in gage house.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority; discharge, about 42,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	155	296	281	342	437	547	645	425	293	413	209
2	136	809	271	274	342	425	670	640	400	267	664	265
3	129	498	256	276	361	408	1930	804	394	252	570	280
4	228	309	236	324	413	407	3730	977	394	240	541	260
5	234	262	224	334	382	396	2030	747	436	238	424	211
6	173	240	299	309	363	382	1520	671	434	248	353	189
7	150	225	255	299	339	349	1250	631	381	256	317	191
8	147	217	223	293	286	329	1110	594	355	225	292	200
9	140	207	212	398	289	322	977	573	340	219	274	195
10	287	201	267	1320	297	316	882	563	325	211	285	174
11	508	198	322	919	340	599	812	530	315	215	257	162
12	269	202	245	726	1010	741	769	506	308	306	231	155
13	210	187	271	674	956	521	857	491	306	296	218	148
14	199	183	1360	610	1910	471	790	475	308	314	210	151
15	183	177	781	502	1280	442	938	458	333	461	e190	143
16	182	172	598	492	1080	465	879	445	307	296	e180	134
17	185	167	517	e470	946	710	807	436	352	233	e176	133
18	179	167	463	e500	736	573	762	425	375	214	173	136
19	157	166	e420	e460	742	533	719	407	346	250	211	138
20	232	167	e400	e480	659	3310	699	431	335	238	200	135
21	300	181	e380	e410	614	1930	699	487	317	206	273	225
22	225	303	e360	e600	617	1290	656	473	333	196	220	218
23	183	210	e340	e470	631	1020	623	444	308	242	195	235
24	167	201	e320	e430	586	881	628	1270	274	358	232	260
25	162	321	e310	e390	512	794	710	873	277	401	194	302
26	160	3000	e300	e400	459	728	656	693	300	303	173	353
27	157	827	e295	e440	468	715	603	572	326	260	183	246
28	156	521	e290	e420	510	707	845	538	301	316	192	199
29	153	406	e288	e410	454	618	771	525	389	295	168	180
30	152	337	286	e380	---	597	682	485	365	381	156	168
31	153	---	286	e390	---	583	---	454	---	388	156	---
TOTAL	6048	11216	11371	14681	17924	21999	29551	18263	10359	8618	8321	5995
MEAN	195	374	367	474	618	710	985	589	345	278	268	200
MAX	508	3000	1360	1320	1910	3310	3730	1270	436	461	664	353
MIN	129	155	212	274	286	316	547	407	274	196	156	133

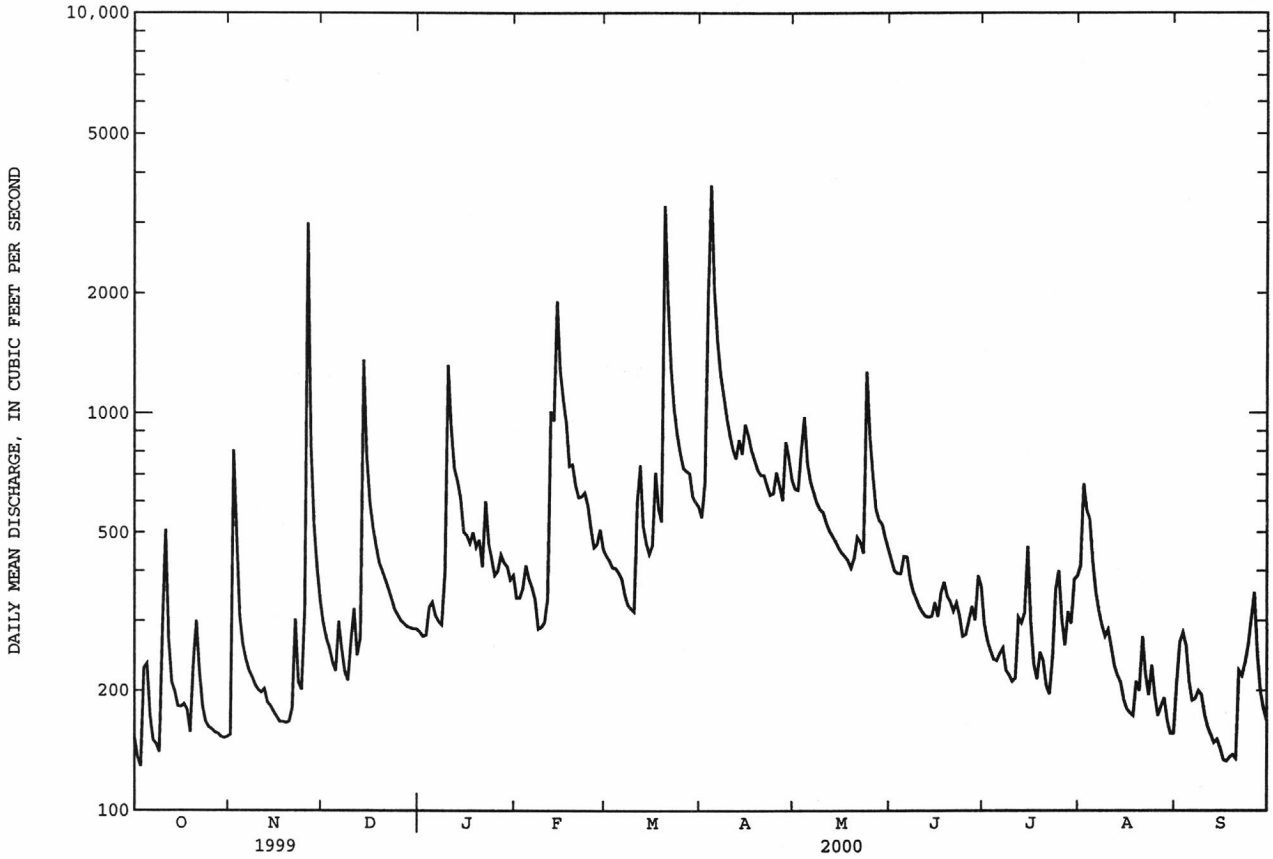
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2000, BY WATER YEAR (WY)

MEAN	416	500	668	887	1035	1159	995	727	544	423	426	375
MAX	1353	1627	2125	2275	2227	2455	2010	1630	1502	1141	2246	1214
(WY)	1965	1980	1933	1937	1990	1929	1936	1984	1967	1989	1940	1928
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1927 - 2000	
ANNUAL TOTAL	171210		164346			
ANNUAL MEAN	469		449		678	
HIGHEST ANNUAL MEAN					943	1949
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	3000	Nov 26	3730	Apr 4	17100	Aug 13 1940
LOWEST DAILY MEAN	98	Sep 13	129	Oct 3	95	Sep 30 1941
ANNUAL SEVEN-DAY MINIMUM	100	Sep 12	139	Sep 14	100	Sep 12 1999
INSTANTANEOUS PEAK FLOW			7630	Mar 20	32700*	Aug 30 1940
INSTANTANEOUS PEAK STAGE			7.86	Mar 20	15.82*	Aug 30 1940
INSTANTANEOUS LOW FLOW			125	Oct 3	81	Sep 30 1941
10 PERCENT EXCEEDS	849		791		1260	
50 PERCENT EXCEEDS	403		334		505	
90 PERCENT EXCEEDS	147		173		207	

e Estimated.
* See REMARKS.

03459500 PIGEON RIVER NEAR HEPCO, NC--Continued



03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC

LOCATION.--Lat 35°40'02", long 83°04'22", Haywood County, Hydrologic Unit 06010106, in Great Smoky Mountains National Park, on left bank 20 ft downstream of bridge on State Highway 284, 500 ft upstream from Little Cataloochee Creek, 2 mi north of Cataloochee, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--49.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft above sea level (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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 Nov. 16-21, 22-25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	24	45	43	e70	93	88	126	69	49	50	33
2	24	61	44	42	e66	89	112	121	65	45	51	47
3	23	37	42	41	e62	86	337	128	63	43	69	34
4	55	31	40	54	59	86	806	128	62	41	96	32
5	31	31	40	47	57	81	445	115	68	41	65	33
6	26	30	69	43	68	77	314	117	63	46	54	30
7	24	29	46	41	57	74	248	122	54	42	58	28
8	23	28	44	41	59	72	225	108	52	38	60	28
9	23	27	42	96	61	70	190	100	49	37	67	31
10	97	27	69	279	65	69	169	101	47	36	59	54
11	59	26	58	162	79	161	152	91	46	54	51	32
12	35	26	53	120	314	150	142	88	44	65	46	29
13	31	25	72	110	269	119	162	84	44	45	44	28
14	29	24	130	93	505	111	145	81	43	44	42	28
15	27	23	92	85	306	104	161	76	63	79	40	26
16	26	22	80	88	225	107	161	74	52	45	38	25
17	26	22	72	83	182	130	154	73	62	41	37	25
18	25	22	67	162	168	110	148	70	60	39	37	24
19	25	22	63	141	224	108	138	67	51	62	41	25
20	50	22	60	e135	180	211	130	69	46	46	40	24
21	34	23	58	e113	164	176	130	76	44	39	40	114
22	29	23	58	e107	150	158	119	71	57	38	34	45
23	27	22	52	e100	137	143	113	77	44	57	33	55
24	26	22	51	e94	126	131	119	248	41	53	55	48
25	26	60	51	e85	117	121	136	129	52	50	40	153
26	26	170	e49	e81	110	114	125	102	52	42	33	164
27	25	82	47	e81	116	121	116	92	42	41	36	95
28	24	59	45	e79	104	109	159	90	45	44	33	74
29	24	51	44	e79	97	100	142	90	80	41	30	62
30	24	47	43	e80	---	98	134	78	56	41	29	55
31	24	---	44	e75	---	93	---	72	---	55	29	---
TOTAL	974	1118	1770	2880	4197	3472	5720	3064	1616	1439	1437	1481
MEAN	31.4	37.3	57.1	92.9	145	112	191	98.8	53.9	46.4	46.4	49.4
MAX	97	170	130	279	505	211	806	248	80	79	96	164
MIN	23	22	40	41	57	69	88	67	41	36	29	24
CFSM	.64	.76	1.16	1.89	2.94	2.28	3.88	2.01	1.09	.94	.94	1.00
IN.	.74	.85	1.34	2.18	3.17	2.63	4.32	2.32	1.22	1.09	1.09	1.12

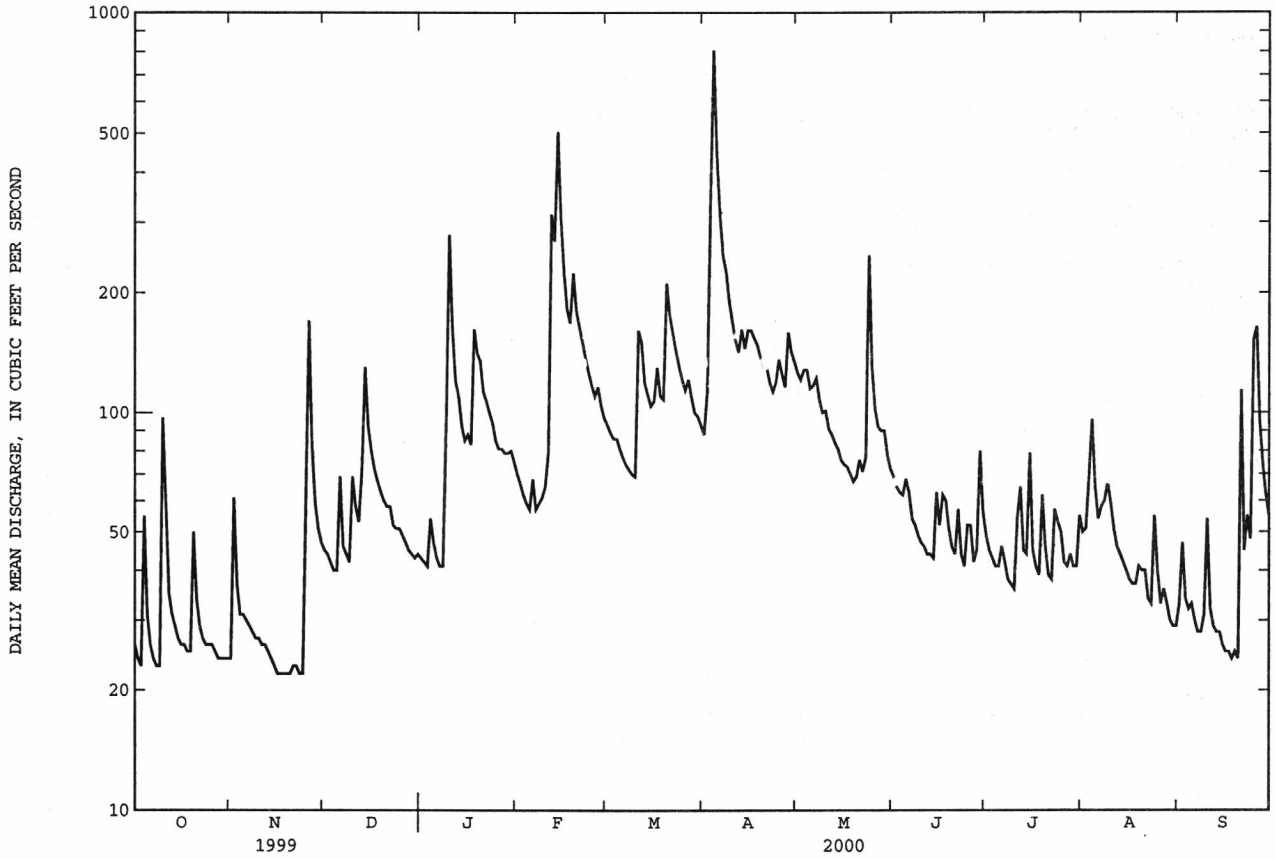
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2000@, BY WATER YEAR (WY)

MEAN	53.7	70.7	112	166	181	205	157	112	84.9	72.7	71.2	53.2
MAX	146	159	302	392	394	496	305	283	252	182	223	123
(WY)	1990	1980	1973	1937	1990	1963	1936	1984	1967	1949	1940	1989
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1934 - 2000@	
ANNUAL TOTAL	34477		29168			
ANNUAL MEAN	94.5		79.7		111	
HIGHEST ANNUAL MEAN					171	1994
LOWEST ANNUAL MEAN					51.5	1986
HIGHEST DAILY MEAN	476	May 8	806	Apr 4	2690	Mar 16 1973
LOWEST DAILY MEAN	21	Sep 17	22	Nov 16	12	Jan 2 1940
ANNUAL SEVEN-DAY MINIMUM	22	Sep 14	22	Nov 15	18	Oct 21 1998
INSTANTANEOUS PEAK FLOW			1190	Apr 3	5080	Mar 6 1963
INSTANTANEOUS PEAK STAGE			4.84	Apr 3	8.08	Mar 6 1963
INSTANTANEOUS LOW FLOW			22*	Oct 3	9.4*	Jan 2 1940
ANNUAL RUNOFF (CFSM)	1.92		1.62		2.26	
ANNUAL RUNOFF (INCHES)	26.07		22.05		30.77	
10 PERCENT EXCEEDS	180		150		206	
50 PERCENT EXCEEDS	82		59		81	
90 PERCENT EXCEEDS	25		26		34	

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

03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC--Continued



03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to 1996, May 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1973 to September 1986.

WATER TEMPERATURE: October 1962 to September 1986.

INSTRUMENTATION.--Temperature recorder from October 1962 to September 1986. water-quality monitor from May 1974 to September 1986.

REMARKS.-Station operated as part of the Hydrologic Benchmark network from October 1962 to current year. Miscellaneous chemical data published for 1945 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 43 microsiemens, June 13, 1974; minimum, 7 microsiemens, Feb. 28, 1983.

WATER TEMPERATURE: Maximum, 23.5°C, Aug. 5, 1977; minimum, 0.0°C, on several days during winter months of most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT										
25...	1150	26	703	12.4	6.0	16	12.5	5.0	1.05	.35
25...	1151	26	703	12.4	6.0	16	12.5	5.0	1.06	.35
NOV										
30...	1102	48	708	12.4	6.2	16	2.0	3.5	.97	.32
30...	1103	48	708	12.4	6.2	16	2.0	3.5	.96	.32
FEB										
14...	1030	511	691	11.6	5.5	14	7.5	6.4	.87	.30
14...	1031	511	691	11.6	5.5	14	7.5	6.4	.88	.30
APR										
11...	1138	151	705	11.1	5.6	13	16.0	7.5	.78	.26
11...	1139	151	705	11.1	5.6	13	16.0	7.5	.81	.26
MAY										
23...	1415	68	697	9.6	7.2	14	21.0	14.8	.98	.31
23...	1416	68	697	9.6	7.2	14	21.0	14.8	1.00	.31
JUN										
20...	1230	45	706	9.5	7.0	15	18.5	16.0	1.06	.32
20...	1231	45	706	9.5	7.0	15	18.5	16.0	1.06	.32
JUL										
19...	1258	45	706	9.4	6.5	15	18.0	16.5	1.09	.35
19...	1259	45	706	9.4	6.5	15	18.0	16.5	1.09	.34
AUG										
28...	1030	33	701	9.3	5.9	16	17.5	16.0	1.07	.35
28...	1031	33	701	9.3	5.9	16	17.5	16.0	1.10	.35
SEP										
26...	1130	154	700	9.8	6.8	14	8.0	12.5	.97	.31
26...	1131	154	700	9.8	6.8	14	8.0	12.5	.94	.31

03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	BICARBONATE IT-LAB (MG-L - HCO3) (90440)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SAMPLING METHOD, CODES (82398)
OCT										
25...	.6	1.2	6.5	.7	5.3	1.1	<.028	<.028	<27	grab
25...	.6	1.2	6.4	.7	5.2	1.1	<.028	<.028	<27	EWI
NOV										
30...	.6	1.1	4.9	.5	4.4	1.3	<.028	.117	<27	grab
30...	.6	1.1	4.9	.5	4.4	1.3	<.028	.134	<27	EWI
FEB										
14...	.7	.8	2.2	.4	3.0	1.8	<.028	.247	39	grab
14...	.7	.8	2.0	.4	3.1	1.8	<.028	.248	34	EWI
APR										
11...	.5	.9	4.0	.4	4.1	1.1	<.028	.127	<27	grab
11...	.5	.9	4.0	.4	4.1	1.1	<.028	.139	<27	EWI
MAY										
23...	.6	1.1	5.9	.4	4.8	1.0	<.028	.070	27	grab
23...	.6	1.1	6.2	.4	4.8	1.0	<.028	.094	31	EWI
JUN										
20...	.6	1.2	6.3	.4	4.9	1.0	<.028	.105	<27	grab
20...	.6	1.2	6.6	.4	4.9	1.1	<.028	.132	<27	EWI
JUL										
19...	.6	1.1	5.8	.4	4.9	1.0	<.028	<.028	<27	grab
19...	.6	1.2	5.8	.4	4.8	1.1	<.028	.149	<27	EWI
AUG										
28...	.6	1.2	6.2	.4	5.0	1.1	<.028	.068	37	grab
28...	.6	1.2	6.3	.5	5.2	1.1	.033	.108	<27	EWI
SEP										
26...	.6	.9	3.3	.4	4.0	1.5	<.028	.141	28	grab
26...	.6	.9	3.5	.4	4.0	1.5	<.028	.151	30	EWI

Note.--EWI - Equal Width Increment method

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

LOCATION.--Lat 35°47'02", long 83°06'44", Cocke County Tennessee, Hydrologic Unit 06010105, on left bank, 550 ft upstream of Browns Bridge on Waterville Road, 0.9 mi downstream of North Carolina and Tennessee state lines, 1.0 mi northwest of Waterville, and at mile 25.

DRAINAGE AREA.--538 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable regulation, caused by Walters Hydroelectric Plant, 1.0 mi upstream. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379	233	1320	729	671	1100	765	737	720	719	581	182
2	213	611	786	158	1060	790	1340	1340	565	278	732	508
3	176	1010	770	777	495	842	2350	1620	682	163	1210	210
4	295	513	229	222	217	228	5650	2070	448	555	852	409
5	468	402	125	350	163	249	3520	1330	724	217	1130	189
6	316	369	395	400	168	921	2700	956	944	638	421	397
7	252	353	515	326	467	980	2530	1730	536	286	561	124
8	228	336	266	558	713	864	1480	801	679	520	663	375
9	226	283	934	772	340	413	1790	1790	357	153	553	182
10	384	731	258	1960	302	244	1540	1520	543	426	1030	187
11	854	190	705	1090	246	1020	1260	1150	175	750	280	411
12	586	177	567	675	2170	1380	1200	1410	219	584	675	149
13	395	188	375	1490	2700	1750	1700	299	659	814	115	411
14	340	172	1680	1790	2940	712	1670	218	214	963	243	332
15	317	193	1460	1130	2540	394	1860	545	653	e540	707	411
16	286	632	733	315	2150	351	909	512	523	e180	191	185
17	286	824	1040	1020	1910	1020	1460	270	738	e415	601	145
18	280	208	464	1890	1520	1240	1820	579	271	e483	185	249
19	271	248	472	918	716	1110	1180	478	565	445	528	240
20	289	156	1350	748	643	2850	1540	834	670	598	165	196
21	449	155	397	551	1660	3010	998	210	492	361	161	191
22	412	157	216	765	1050	2200	1080	530	852	566	590	152
23	315	208	300	714	574	1930	1300	734	325	197	206	196
24	272	141	476	982	1060	1820	1430	2230	562	407	616	197
25	259	154	668	904	1260	685	1170	1940	186	1030	643	450
26	253	2540	422	1090	664	1060	1360	795	227	595	554	1030
27	249	2210	663	1120	664	1550	1150	599	524	529	137	630
28	245	210	251	800	601	1410	1850	1100	276	192	140	233
29	240	1400	588	196	468	1000	1860	680	1530	566	636	528
30	235	1290	376	335	---	854	675	700	867	453	157	582
31	233	---	167	342	---	745	---	572	---	856	576	---
TOTAL	10003	16294	18968	25117	30132	34722	51137	30279	16726	15479	15839	9681
MEAN	323	543	612	810	1039	1120	1705	977	558	499	511	323
MAX	854	2540	1680	1960	2940	3010	5650	2230	1530	1030	1210	1030
MIN	176	141	125	158	163	228	675	210	175	153	115	124
†	-5	+5	-12	-9	+44	+3	-3	+16	-6	-49	-32	+22

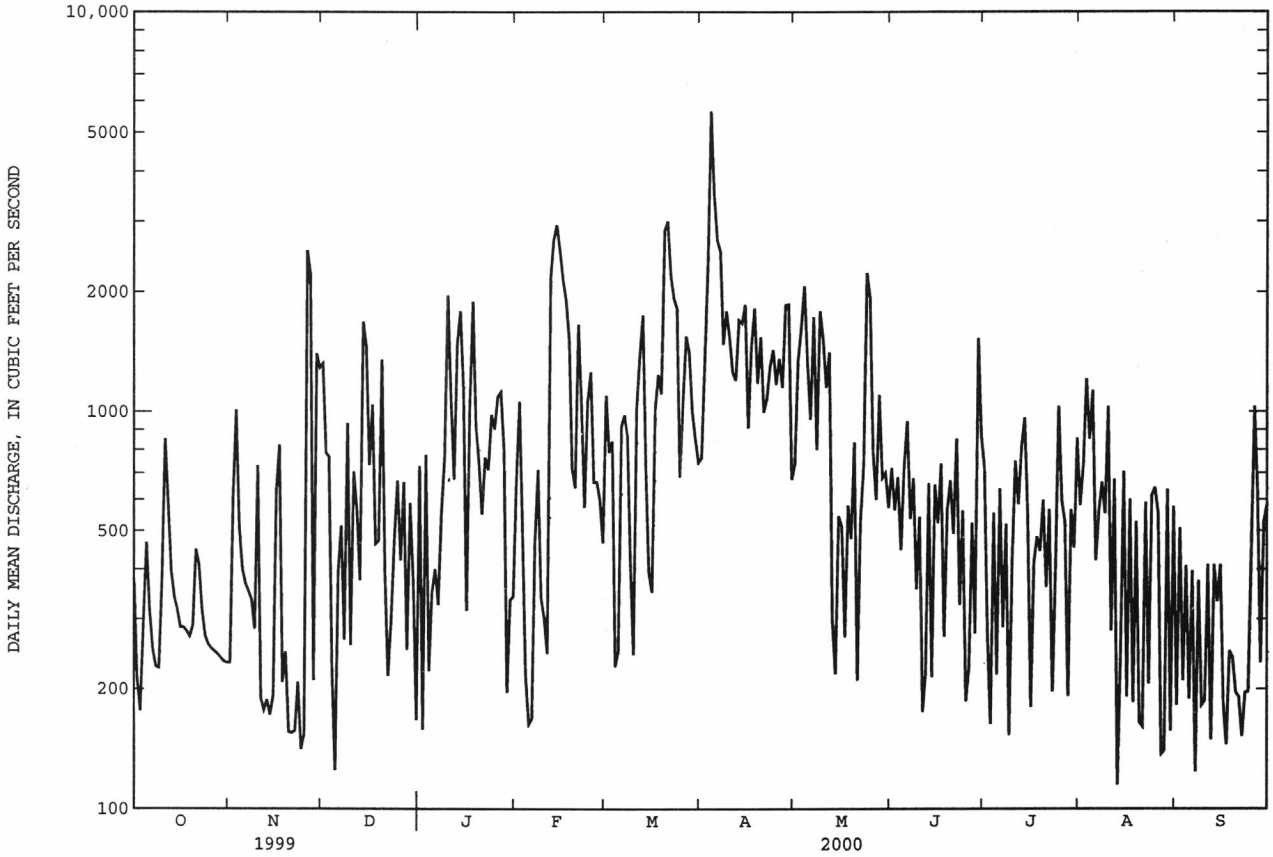
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	339	496	615	1439	1799	2029	1784	1244	932	708	404	292
MAX	540	609	634	2187	3096	3505	2540	1488	1432	1036	511	476
(WY)	1998	1998	1998	1998	1998	1997	1998	1997	1997	1999	2000	1997
MIN	153	334	600	810	1039	1120	1049	977	558	479	342	176
(WY)	1999	1999	1999	2000	2000	2000	1999	2000	2000	1998	1998	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	303424		274377			
ANNUAL MEAN	831		750	‡724	931	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1246	1998
LOWEST ANNUAL MEAN					750	2000
HIGHEST DAILY MEAN	2900	May 8	5650	Apr 4	10800	Jan 8 1998
LOWEST DAILY MEAN	114	Sep 26	115	Aug 13	100	Sep 15 1997
ANNUAL SEVEN-DAY MINIMUM	125	Sep 11	174	Nov 19	117	Oct 2 1998
INSTANTANEOUS PEAK FLOW			9000	Apr 4	18400	Jan 8 1998
INSTANTANEOUS PEAK STAGE			10.50	Apr 4	13.42	Jan 8 1998
INSTANTANEOUS LOW FLOW			64*	Dec 21	25*	Aug 25 1997
10 PERCENT EXCEEDS	1680		1630		2280	
50 PERCENT EXCEEDS	705		566		732	
90 PERCENT EXCEEDS	157		191		154	

e Estimated.
† Change in contents, equivalent in cubic feet per second, in Walters Reservoir, provided by Carolina Power and Light Company.
‡ Adjusted for change in contents.
* See REMARKS.

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued



PERIOD OF RECORD.--Water years 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1997 to current year.

DISSOLVED OXYGEN: Water years 1997 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1997.

REMARKS.--Interruptions in the data are due to malfunctions of the monitor. Data were collected during the current year for the months of October through November 28, and March 15 through September 27 only.

EXTREMES FOR PERIOD OF RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	24.8, July 19, August 28, 1998	8.0, November 28, 1999
DISSOLVED OXYGEN, mg/L	11.3, May 10, 1997, March 15, 2000	3.1, November 1, 1998

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	23.3, July 22	8.0, November 28
DISSOLVED OXYGEN, mg/L	11.3, March 15	3.8, July 24

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.8	16.0	17.4	14.9	13.9	14.4	---	---	---	---	---	---
2	18.5	17.3	17.9	14.9	12.7	14.3	---	---	---	---	---	---
3	18.8	17.5	18.1	12.7	11.1	11.8	---	---	---	---	---	---
4	18.3	16.7	17.7	11.1	10.1	10.7	---	---	---	---	---	---
5	18.6	17.7	18.2	11.1	10.0	10.6	---	---	---	---	---	---
6	17.7	16.3	17.1	11.7	10.3	11.0	---	---	---	---	---	---
7	17.4	16.1	16.8	12.9	11.7	12.4	---	---	---	---	---	---
8	17.6	16.2	16.9	13.3	12.5	13.0	---	---	---	---	---	---
9	17.8	17.1	17.5	13.0	12.3	12.7	---	---	---	---	---	---
10	17.9	17.0	17.6	14.5	11.1	11.7	---	---	---	---	---	---
11	18.5	17.5	18.1	12.0	11.1	11.6	---	---	---	---	---	---
12	18.2	17.5	17.9	11.6	10.9	11.2	---	---	---	---	---	---
13	18.1	17.2	17.6	11.5	10.7	11.1	---	---	---	---	---	---
14	17.7	17.0	17.5	11.6	10.7	11.2	---	---	---	---	---	---
15	17.0	15.9	16.6	11.3	10.4	10.9	---	---	---	---	---	---
16	17.0	15.8	16.4	11.4	10.1	10.8	---	---	---	---	---	---
17	16.9	15.9	16.5	11.5	10.2	11.2	---	---	---	---	---	---
18	16.8	15.6	16.3	10.9	10.0	10.4	---	---	---	---	---	---
19	15.6	14.7	15.1	10.4	9.6	10.1	---	---	---	---	---	---
20	15.2	14.3	14.9	10.8	9.9	10.3	---	---	---	---	---	---
21	14.6	13.8	14.3	10.9	10.3	10.6	---	---	---	---	---	---
22	14.3	13.2	13.9	10.8	10.1	10.4	---	---	---	---	---	---
23	14.2	12.3	13.2	10.7	10.1	10.4	---	---	---	---	---	---
24	12.3	11.3	11.8	11.2	10.3	10.7	---	---	---	---	---	---
25	11.6	10.5	11.2	11.6	10.6	10.9	---	---	---	---	---	---
26	12.0	10.9	11.5	11.8	10.5	11.3	---	---	---	---	---	---
27	12.6	11.4	12.0	11.3	11.0	11.2	---	---	---	---	---	---
28	12.9	11.9	12.4	11.0	8.0	9.1	---	---	---	---	---	---
29	13.2	12.1	12.6	---	---	---	---	---	---	---	---	---
30	13.5	12.4	13.0	---	---	---	---	---	---	---	---	---
31	14.5	13.2	13.8	---	---	---	---	---	---	---	---	---
MONTH	18.8	10.5	15.5	---	---	---	---	---	---	---	---	---

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	11.4	10.4	11.0	13.3	10.8	12.1
2	---	---	---	---	---	---	11.8	11.0	11.6	13.2	12.5	12.9
3	---	---	---	---	---	---	12.4	11.6	12.0	13.6	12.7	13.2
4	---	---	---	---	---	---	12.4	11.0	11.7	13.6	13.1	13.3
5	---	---	---	---	---	---	11.2	10.6	10.9	13.9	12.9	13.5
6	---	---	---	---	---	---	11.1	10.1	10.6	---	---	---
7	---	---	---	---	---	---	11.3	10.7	11.0	---	---	---
8	---	---	---	---	---	---	11.3	10.6	10.9	---	---	---
9	---	---	---	---	---	---	11.1	9.7	10.7	---	---	---
10	---	---	---	---	---	---	11.0	9.1	10.3	16.3	15.1	15.9
11	---	---	---	---	---	---	11.1	10.1	10.6	16.6	15.1	16.0
12	---	---	---	---	---	---	11.1	10.6	10.9	17.5	16.1	16.8
13	---	---	---	---	---	---	11.5	10.3	11.1	19.6	16.5	17.7
14	---	---	---	---	---	---	11.8	9.9	11.1	18.2	16.2	17.2
15	---	---	---	10.1	8.6	9.3	12.0	11.7	11.8	17.3	15.2	16.4
16	---	---	---	10.1	9.1	9.5	12.6	11.5	11.9	17.4	15.4	16.5
17	---	---	---	10.2	9.5	9.9	12.4	11.6	12.1	17.3	16.2	16.7
18	---	---	---	10.4	9.2	9.8	12.2	11.6	12.0	18.3	16.2	17.1
19	---	---	---	10.6	9.2	10.1	12.6	11.3	12.0	18.1	17.1	17.6
20	---	---	---	11.0	10.2	10.5	13.2	12.0	12.7	19.0	17.4	17.9
21	---	---	---	10.3	9.8	9.9	13.4	11.9	12.8	18.9	17.6	18.0
22	---	---	---	10.0	9.6	9.8	12.9	9.9	11.4	18.7	17.3	17.9
23	---	---	---	10.3	9.6	10.0	12.9	11.1	12.4	18.3	17.1	17.9
24	---	---	---	10.5	9.9	10.2	13.1	10.4	12.3	18.6	17.7	18.2
25	---	---	---	11.0	10.1	10.6	12.7	11.0	12.2	18.9	18.6	18.7
26	---	---	---	10.8	10.1	10.5	12.5	9.9	11.7	18.6	17.0	17.8
27	---	---	---	10.7	10.0	10.5	12.6	9.2	11.5	19.1	15.8	17.5
28	---	---	---	11.1	8.9	10.5	12.6	10.6	12.0	19.2	16.6	18.4
29	---	---	---	11.0	10.2	10.6	12.6	11.9	12.3	18.7	16.0	17.6
30	---	---	---	11.2	10.0	10.6	12.9	11.1	11.9	19.0	16.2	17.7
31	---	---	---	11.4	10.3	10.9	---	---	---	19.1	16.7	18.0
MONTH	---	---	---	---	---	---	13.4	9.1	11.6	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.2	17.4	18.5	21.2	16.8	19.3	---	---	---	22.7	21.9	22.2
2	19.8	18.1	19.0	21.2	16.8	18.8	---	---	---	22.7	21.6	22.1
3	19.4	18.6	19.1	21.3	17.7	19.5	22.8	19.7	21.8	22.3	21.5	22.0
4	19.2	18.6	18.9	21.7	19.6	20.7	21.1	17.8	20.2	22.7	21.6	22.0
5	19.6	18.6	19.1	21.6	20.6	21.0	22.0	20.4	21.2	22.3	20.8	21.7
6	19.4	18.1	18.9	21.7	20.7	21.2	21.2	19.9	20.5	22.6	20.7	21.5
7	19.5	17.4	18.5	22.2	20.7	21.3	22.0	20.4	21.3	21.6	20.6	21.1
8	19.2	16.9	18.4	22.0	20.4	21.3	22.5	20.5	21.4	22.4	20.8	21.6
9	19.6	17.6	18.7	22.9	20.9	21.8	22.0	18.2	20.6	22.6	21.3	21.9
10	19.9	18.3	19.1	22.3	20.9	21.6	21.9	20.1	21.5	22.4	21.1	21.7
11	20.6	18.8	19.6	22.4	21.2	21.8	21.8	18.4	20.0	22.3	21.2	21.7
12	21.1	18.8	19.6	22.2	21.7	22.0	22.3	17.1	19.8	22.6	21.3	21.9
13	20.2	19.0	19.5	22.5	21.2	21.9	21.3	16.7	18.2	22.5	21.2	21.8
14	21.2	19.5	20.1	---	---	---	21.5	17.5	20.3	22.5	21.5	21.9
15	20.4	19.5	19.9	---	---	---	22.4	20.3	21.3	22.2	21.3	21.7
16	20.3	19.6	20.0	---	---	---	22.4	20.5	21.3	21.6	20.3	21.1
17	20.3	19.7	20.1	---	---	---	22.6	21.0	21.8	21.2	19.7	20.5
18	21.3	20.1	20.6	---	---	---	22.6	21.0	21.7	21.2	19.9	20.6
19	20.7	20.0	20.3	22.6	20.5	21.5	22.5	19.7	21.1	21.4	19.9	20.7
20	20.9	20.1	20.5	23.0	20.7	21.8	21.5	20.5	21.0	21.2	19.8	20.4
21	21.1	20.1	20.5	23.2	21.1	22.1	21.7	20.1	20.7	20.5	19.1	19.9
22	21.2	19.7	20.4	23.3	21.4	22.2	22.4	20.1	21.3	19.9	18.9	19.4
23	21.3	19.1	20.1	22.0	19.6	21.2	22.0	20.9	21.3	20.5	19.3	19.8
24	21.2	19.6	20.5	21.4	19.5	20.4	22.2	20.9	21.5	20.5	19.5	20.0
25	21.5	20.1	20.7	22.5	20.6	21.8	22.5	21.0	21.7	20.1	18.7	19.5
26	21.3	19.9	20.6	22.9	19.4	20.6	22.6	20.8	21.8	19.7	17.1	18.4
27	21.1	19.8	20.5	22.6	18.2	20.8	22.5	21.1	21.6	18.7	16.0	17.9
28	20.8	20.3	20.6	21.5	20.0	20.7	22.8	20.8	21.6	---	---	---
29	20.6	19.1	19.8	22.7	18.0	20.4	22.6	20.7	21.8	---	---	---
30	20.6	18.4	19.3	---	---	---	22.8	21.3	22.0	---	---	---
31	---	---	---	---	---	---	22.7	21.5	22.1	---	---	---
MONTH	21.5	16.9	19.7	---	---	---	---	---	---	---	---	---

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.6	6.7	7.5	10.2	9.1	9.6	---	---	---	---	---	---
2	8.3	7.3	7.7	9.8	9.1	9.4	---	---	---	---	---	---
3	8.3	7.1	7.6	10.0	9.7	9.9	---	---	---	---	---	---
4	9.2	7.1	8.2	10.5	10.0	10.2	---	---	---	---	---	---
5	9.0	8.3	8.6	10.6	10.0	10.2	---	---	---	---	---	---
6	9.3	8.3	8.7	10.6	9.8	10.1	---	---	---	---	---	---
7	9.5	8.2	8.6	10.1	9.4	9.8	---	---	---	---	---	---
8	8.9	8.2	8.4	10.0	9.3	9.6	---	---	---	---	---	---
9	8.6	8.1	8.3	10.1	9.2	9.6	---	---	---	---	---	---
10	8.6	8.1	8.3	10.1	8.7	9.2	---	---	---	---	---	---
11	8.6	8.3	8.4	9.7	9.2	9.4	---	---	---	---	---	---
12	8.7	8.3	8.5	9.9	9.1	9.4	---	---	---	---	---	---
13	8.9	8.3	8.5	9.7	9.1	9.3	---	---	---	---	---	---
14	8.9	8.3	8.5	9.9	8.9	9.3	---	---	---	---	---	---
15	9.1	8.5	8.8	9.8	8.6	9.2	---	---	---	---	---	---
16	9.3	8.6	8.8	9.3	8.6	9.1	---	---	---	---	---	---
17	9.2	8.5	8.8	9.7	8.6	9.2	---	---	---	---	---	---
18	9.3	8.5	8.9	10.2	9.5	9.7	---	---	---	---	---	---
19	9.6	8.9	9.2	10.1	9.3	9.7	---	---	---	---	---	---
20	9.4	8.7	9.1	10.5	9.3	9.7	---	---	---	---	---	---
21	9.8	9.3	9.5	10.3	9.3	9.6	---	---	---	---	---	---
22	9.9	9.3	9.5	10.4	9.3	9.7	---	---	---	---	---	---
23	10.0	9.3	9.7	10.0	9.0	9.5	---	---	---	---	---	---
24	10.3	9.6	10.0	10.6	9.2	9.7	---	---	---	---	---	---
25	10.6	9.9	10.2	10.4	9.2	9.5	---	---	---	---	---	---
26	10.7	9.8	10.1	10.1	8.6	9.2	---	---	---	---	---	---
27	10.6	9.7	10.0	9.4	8.8	9.1	---	---	---	---	---	---
28	10.5	9.7	10.0	11.2	8.1	10.3	---	---	---	---	---	---
29	10.5	9.6	10.0	---	---	---	---	---	---	---	---	---
30	10.6	9.5	10.0	---	---	---	---	---	---	---	---	---
31	10.2	9.1	9.7	---	---	---	---	---	---	---	---	---
MONTH	10.7	6.7	9.0	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.8	10.0	10.5	10.3	9.3	9.8
2	---	---	---	---	---	---	10.5	10.1	10.3	9.5	8.9	9.2
3	---	---	---	---	---	---	10.9	10.1	10.3	9.8	8.9	9.3
4	---	---	---	---	---	---	11.2	10.8	11.0	9.7	9.2	9.3
5	---	---	---	---	---	---	11.2	10.9	11.0	9.8	8.9	9.4
6	---	---	---	---	---	---	11.2	9.9	10.6	---	---	---
7	---	---	---	---	---	---	10.1	9.8	9.9	---	---	---
8	---	---	---	---	---	---	10.1	9.8	9.9	---	---	---
9	---	---	---	---	---	---	10.4	9.9	10.1	---	---	---
10	---	---	---	---	---	---	10.5	9.9	10.1	8.8	8.5	8.7
11	---	---	---	---	---	---	10.2	9.8	10.1	9.4	8.6	9.0
12	---	---	---	---	---	---	10.3	9.8	10.0	9.4	8.8	9.0
13	---	---	---	---	---	---	10.4	9.7	10.0	9.8	8.4	9.0
14	---	---	---	---	---	---	10.6	9.7	10.1	9.9	8.5	9.1
15	---	---	---	11.3	10.3	10.7	9.9	9.6	9.7	10.4	8.5	9.1
16	---	---	---	10.9	10.0	10.5	10.1	9.5	9.8	10.0	8.5	9.1
17	---	---	---	10.5	10.1	10.2	9.8	9.4	9.6	10.0	8.7	9.3
18	---	---	---	10.8	10.1	10.4	9.8	9.4	9.6	10.3	8.2	9.0
19	---	---	---	10.5	9.9	10.2	9.9	9.3	9.7	9.9	7.8	8.7
20	---	---	---	10.4	9.9	10.1	9.7	9.1	9.4	9.9	8.0	8.6
21	---	---	---	10.4	10.2	10.3	9.5	9.1	9.3	9.8	8.0	8.8
22	---	---	---	10.6	10.3	10.5	10.6	9.2	9.8	9.8	8.1	8.6
23	---	---	---	10.6	10.0	10.3	10.0	9.0	9.5	9.2	8.0	8.4
24	---	---	---	10.2	10.0	10.1	10.2	9.0	9.4	8.8	7.9	8.3
25	---	---	---	10.4	9.9	10.2	10.0	9.1	9.5	8.3	7.8	8.1
26	---	---	---	10.4	10.0	10.2	10.5	9.3	9.8	9.5	8.1	8.8
27	---	---	---	10.2	9.9	10.1	10.7	9.1	9.9	10.1	7.8	9.0
28	---	---	---	10.7	10.1	10.3	10.2	9.2	9.5	9.5	7.4	8.4
29	---	---	---	10.9	10.2	10.5	10.0	9.2	9.6	10.0	7.7	8.8
30	---	---	---	10.6	10.2	10.4	10.6	9.5	10.0	10.2	8.2	8.9
31	---	---	---	10.6	10.0	10.4	---	---	---	10.3	8.6	9.6
MONTH	---	---	---	---	---	---	11.2	9.0	9.9	---	---	---

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.6	8.9	9.7	11.0	7.4	8.9	---	---	---	8.0	6.7	7.3
2	10.7	9.5	10.2	11.0	7.4	9.6	---	---	---	---	---	---
3	---	---	---	10.9	8.0	9.5	8.0	6.2	6.8	---	---	---
4	---	---	---	---	---	---	9.0	7.3	7.9	---	---	---
5	---	---	---	---	---	---	7.8	6.7	7.4	---	---	---
6	---	---	---	---	---	---	8.6	7.3	8.0	---	---	---
7	---	---	---	---	---	---	8.3	7.3	7.8	11.1	7.4	8.6
8	9.8	8.1	8.9	---	---	---	8.8	6.9	7.8	---	---	---
9	10.3	8.3	9.3	---	---	---	9.2	7.5	8.3	---	---	---
10	---	---	---	---	---	---	8.4	5.9	7.1	---	---	---
11	---	---	---	---	---	---	8.0	5.9	7.5	---	---	---
12	---	---	---	---	---	---	8.7	6.2	7.4	9.3	7.4	8.3
13	8.5	7.4	7.8	---	---	---	8.7	6.4	8.1	10.7	7.3	8.4
14	9.1	8.0	8.4	---	---	---	8.0	7.0	7.4	---	---	---
15	9.1	8.0	8.4	---	---	---	7.9	6.0	6.9	---	---	---
16	9.7	8.4	8.9	---	---	---	7.8	6.5	7.1	---	---	---
17	9.8	8.3	9.0	---	---	---	8.3	5.7	6.7	---	---	---
18	10.4	8.2	9.4	---	---	---	---	---	---	---	---	---
19	---	---	---	7.8	6.0	6.9	---	---	---	8.0	5.2	6.9
20	---	---	---	7.9	5.4	6.8	---	---	---	---	---	---
21	---	---	---	7.6	5.1	6.5	---	---	---	---	---	---
22	---	---	---	7.5	5.0	6.2	8.6	7.3	7.7	8.4	7.3	7.8
23	8.4	6.9	7.8	7.7	6.3	7.1	8.6	7.6	8.0	8.2	7.3	7.6
24	8.4	6.6	7.6	7.9	6.8	7.6	8.6	6.1	7.7	8.2	7.4	7.7
25	8.9	7.6	8.1	6.9	5.3	6.4	9.1	6.8	7.7	8.4	7.3	7.8
26	---	---	---	8.2	4.8	6.8	9.2	6.8	7.6	8.8	6.9	8.0
27	---	---	---	9.1	4.1	6.4	9.1	7.5	8.3	9.0	7.7	8.1
28	8.5	7.3	7.9	7.3	5.4	6.6	9.8	8.1	8.8	---	---	---
29	8.8	7.7	8.4	9.1	3.8	5.6	---	---	---	---	---	---
30	9.9	8.1	9.0	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03463300 SOUTH TOE RIVER NEAR CELO, NC

LOCATION.--Lat 35°49'53", long 82°11'04", Yancey County, Hydrologic Unit 06010108, on right bank on Secondary Road 1168, 800 ft upstream from bridge on Secondary Road 1167, 0.3 mi downstream of Whiteoak Creek, 1.9 mi southeast of Celo, and at mile 20.1.

DRAINAGE AREA.--43.3 mi^2.

PERIOD OF RECORD.--July 1957 to current year.

REVISED RECORDS.--WSP 1910: 1958-59. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,658 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 5,000 ft^3/s on basis of slope-area measurement of peak flow; gage height from outside floodmarks. Minimum discharge for period of record also occurred Sept. 26, 27, 1999. Minimum discharge for current water year also occurred Oct. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	38	111	60	e59	87	103	168	68	65	198	61
2	20	1200	100	59	e57	83	124	155	65	60	463	66
3	18	187	91	59	e57	78	325	144	62	55	207	57
4	41	112	85	62	55	77	591	140	62	50	161	49
5	39	89	78	59	51	74	257	131	65	49	124	47
6	25	76	100	54	51	69	210	123	66	52	98	89
7	22	67	79	52	51	68	181	117	60	48	84	67
8	21	60	73	51	52	67	165	110	56	45	72	60
9	21	55	68	78	54	66	150	107	54	43	64	53
10	69	50	89	257	59	65	139	102	52	39	69	47
11	68	51	80	139	83	166	131	96	50	36	56	43
12	46	50	71	105	395	169	128	93	48	41	51	38
13	52	44	101	103	269	107	136	91	47	43	45	36
14	51	42	379	89	614	96	164	88	46	38	43	36
15	39	39	165	80	282	88	452	83	51	43	41	32
16	35	36	131	78	217	121	422	81	48	33	39	30
17	32	35	113	78	189	145	279	80	44	29	38	29
18	30	33	103	94	170	112	245	79	50	27	38	30
19	29	33	95	88	235	104	213	77	48	28	39	36
20	35	33	112	84	161	854	187	81	53	30	39	29
21	41	47	106	e73	135	422	177	86	64	26	54	35
22	27	43	108	e70	122	284	161	90	61	24	41	35
23	24	42	93	e68	113	227	149	80	51	56	37	61
24	23	44	86	66	109	198	153	139	44	203	37	45
25	22	249	79	e63	104	173	265	125	44	161	39	42
26	21	1560	77	e63	99	157	216	103	68	78	34	78
27	20	303	74	e63	108	148	176	85	151	68	34	47
28	20	199	68	e63	108	138	246	81	72	88	32	38
29	19	154	66	e63	93	122	224	84	174	84	29	34
30	19	128	64	e63	---	119	188	74	86	86	30	33
31	19	---	63	e63	---	110	---	72	---	236	88	---
TOTAL	975	5099	3108	2447	4152	4794	6557	3165	1910	1964	2424	1383
MEAN	31.5	170	100	78.9	143	155	219	102	63.7	63.4	78.2	46.1
MAX	69	1560	379	257	614	854	591	168	174	236	463	89
MIN	18	33	63	51	51	65	103	72	44	24	29	29
CFSM	.73	3.93	2.32	1.82	3.31	3.57	5.05	2.36	1.47	1.46	1.81	1.06
IN.	.84	4.38	2.67	2.10	3.57	4.12	5.63	2.72	1.64	1.69	2.08	1.19

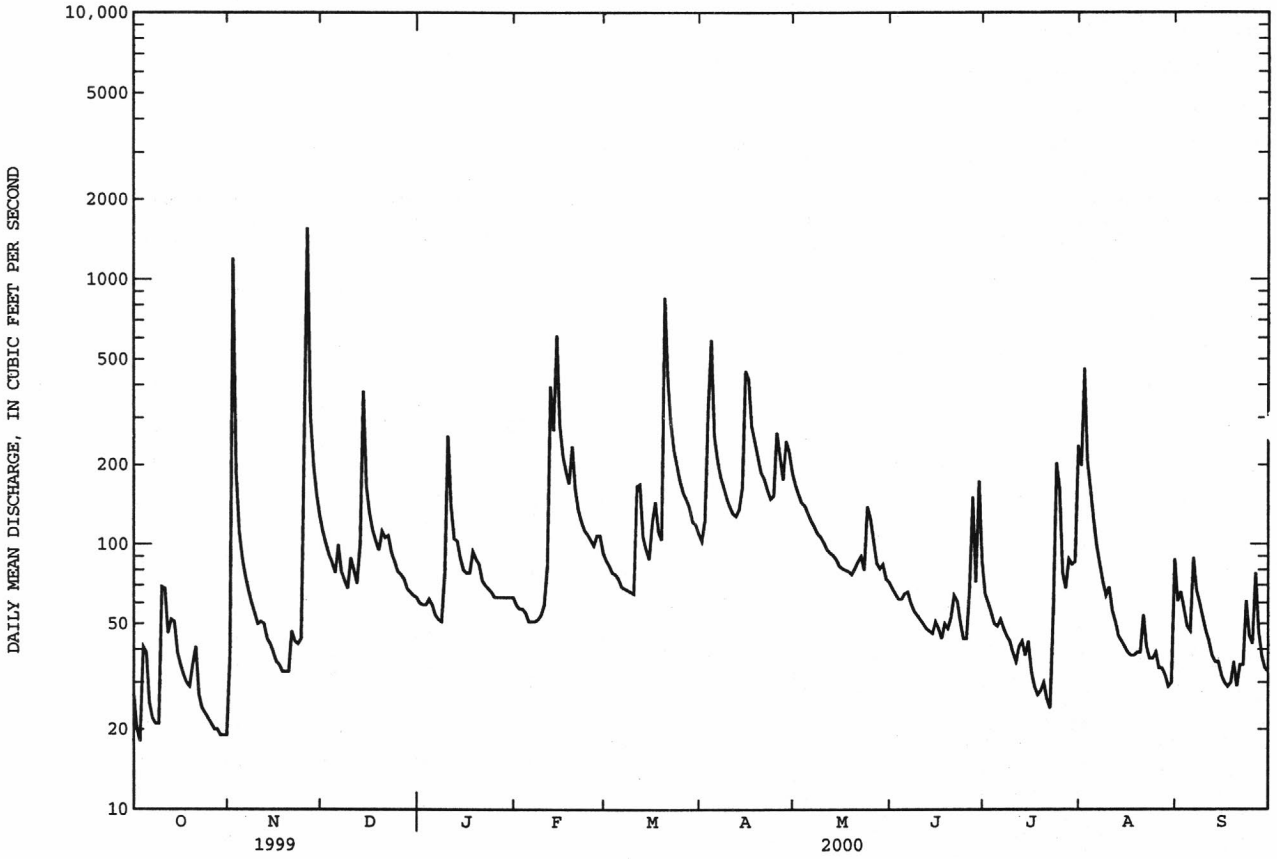
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

MEAN	126	147	138	165	184	228	190	155	124	81.8	93.5	102
MAX	359	714	277	428	466	596	361	373	415	199	323	517
(WY)	1996	1978	1984	1995	1998	1979	1983	1976	1972	1967	1994	1979
MIN	15.8	24.9	41.5	62.2	76.6	69.1	59.7	53.1	34.8	23.3	27.3	14.6
(WY)	1994	1999	1966	1966	1963	1988	1986	1986	1988	1986	1993	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1957 - 2000	
ANNUAL TOTAL	36393.7		37978			
ANNUAL MEAN	99.7		104		144	
HIGHEST ANNUAL MEAN					227	1979
LOWEST ANNUAL MEAN					79.4	1988
HIGHEST DAILY MEAN	1560	Nov 26	1560	Nov 26	9960	Nov 6 1977
LOWEST DAILY MEAN	9.7	Sep 26	18	Oct 3	9.7	Sep 26 1999
ANNUAL SEVEN-DAY MINIMUM	11	Sep 20	20	Oct 25	11	Sep 20 1999
INSTANTANEOUS PEAK FLOW			5250	Nov 26	32900*	Nov 6 1977
INSTANTANEOUS PEAK STAGE			6.10	Nov 26	17.41*	Nov 6 1977
INSTANTANEOUS LOW FLOW			18*	Oct 3	9.4*	Sep 25 1999
ANNUAL RUNOFF (CFSM)	2.30		2.40		3.33	
ANNUAL RUNOFF (INCHES)	31.27		32.63		45.30	
10 PERCENT EXCEEDS	167		192		261	
50 PERCENT EXCEEDS	78		68		99	
90 PERCENT EXCEEDS	21		33		36	

e Estimated.
* See REMARKS.

03463300 SOUTH TOE RIVER NEAR CELO, NC--Continued



03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC

LOCATION.--Lat 36°14'18", long 81°49'22", Watauga County, Hydrologic Unit 06010103, on right bank 250 ft upstream from bridge on Secondary Road 1121, 300 ft downstream of Cove Creek, 2.3 mi southwest of Sugar Grove, and at mile 64.4.

DRAINAGE AREA.--92.1 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1306.

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

GAGE.--Water-stage recorder. Datum of gage is 2,607.84 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at low flow caused by small mills above station. Maximum discharge for period of record from rating curve extended above 4,900 ft^3/s on basis of slope-area measurement of peak flow, from profile based on floodmarks. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Oct. 9.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 22.1 ft, from floodmarks on barn 0.25 mi upstream from station, as witnessed by local resident; discharge, 28,000 ft^3/s, from rating curve extended above 4,900 ft^3/s, on basis of slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	32	117	76	e82	110	130	220	65	87	148	68
2	43	845	104	74	e81	106	131	206	62	71	603	55
3	37	256	96	72	e80	101	183	190	60	64	477	58
4	39	133	90	72	e78	100	632	173	58	59	274	74
5	39	103	86	73	e80	96	398	163	61	66	207	81
6	35	131	99	66	e86	91	299	158	72	94	147	60
7	32	88	85	65	e94	89	242	153	61	73	120	51
8	30	73	79	64	e98	87	217	140	54	61	105	48
9	30	69	77	93	e104	86	203	133	51	55	137	48
10	58	65	87	240	114	85	183	127	48	50	137	44
11	87	65	85	186	146	214	169	119	47	47	100	40
12	59	64	76	138	465	281	167	113	45	50	85	39
13	47	60	80	129	422	180	164	107	43	57	76	49
14	46	58	353	109	791	155	163	100	42	66	71	39
15	41	56	231	e100	495	139	299	96	48	57	65	35
16	38	54	171	97	323	144	845	93	58	54	61	32
17	37	53	127	97	255	186	551	92	52	45	58	32
18	35	52	115	102	224	153	590	89	53	42	58	32
19	33	51	107	97	256	146	455	85	55	41	58	42
20	45	52	117	99	218	1150	359	82	49	43	57	37
21	54	60	113	e94	188	768	320	87	50	39	58	42
22	43	56	104	e93	168	460	283	91	54	38	53	39
23	39	54	96	e92	154	330	244	81	48	43	51	38
24	37	53	94	e91	143	268	225	126	42	76	66	38
25	35	92	90	e90	132	227	286	117	42	77	59	43
26	34	1910	98	e89	125	201	277	92	61	58	50	58
27	33	449	101	e88	125	188	243	80	147	55	48	41
28	33	260	84	e87	126	174	287	79	190	59	52	35
29	31	183	80	e85	114	154	277	87	328	70	46	33
30	31	141	78	e84	---	158	241	74	138	100	44	32
31	31	---	77	e83	---	142	---	68	---	290	56	---
TOTAL	1266	5618	3397	3025	5767	6769	9063	3621	2184	2087	3627	1363
MEAN	40.8	187	110	97.6	199	218	302	117	72.8	67.3	117	45.4
MAX	87	1910	353	240	791	1150	845	220	328	290	603	81
MIN	30	32	76	64	78	85	130	68	42	38	44	32
CFSM	.44	2.03	1.19	1.06	2.16	2.37	3.28	1.27	.79	.73	1.27	.49
IN.	.51	2.27	1.37	1.22	2.33	2.73	3.66	1.46	.88	.84	1.46	.55

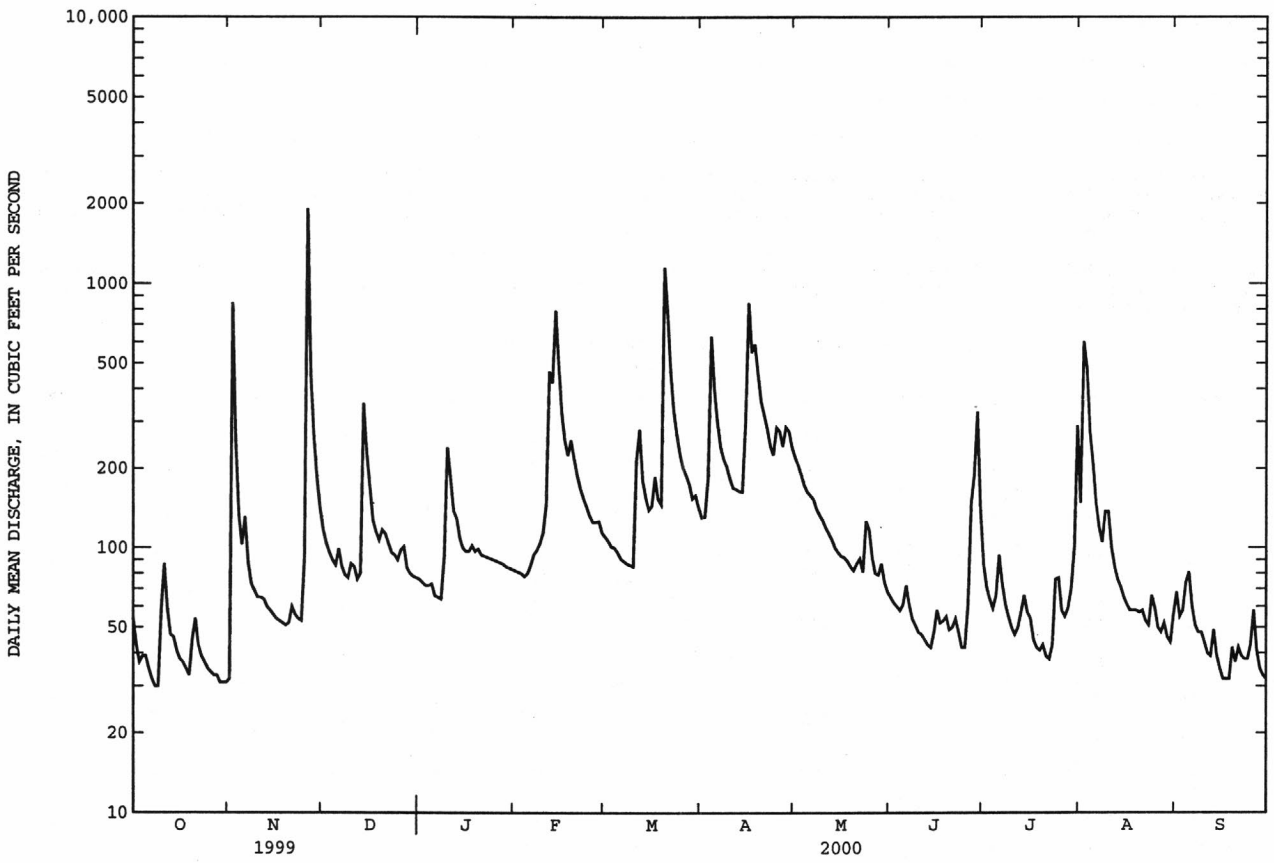
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	112	152	173	214	268	309	260	184	146	110	120	108
MAX	380	662	434	817	643	858	689	411	583	461	1169	691
(WY)	1965	1978	1951	1995	1998	1979	1987	1973	1992	1989	1940	1979
MIN	19.2	34.6	45.6	55.5	67.5	77.0	82.1	67.5	41.4	35.0	25.6	18.1
(WY)	1955	1982	1964	1956	1941	1988	1986	1941	1988	1944	1956	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	47258		47787			
ANNUAL MEAN	129		131		177	
HIGHEST ANNUAL MEAN					297	1979
LOWEST ANNUAL MEAN					84.7	1988
HIGHEST DAILY MEAN	1910	Nov 26	1910	Nov 26	15900	Aug 13 1940
LOWEST DAILY MEAN	15	Sep 26	30	Oct 8	13	Sep 19 1954
ANNUAL SEVEN-DAY MINIMUM	18	Sep 20	32	Oct 26	15	Sep 13 1954
INSTANTANEOUS PEAK FLOW			3480	Nov 26	50800*	Aug 13 1940
INSTANTANEOUS PEAK STAGE			8.27	Nov 26	29.60	Aug 13 1940
INSTANTANEOUS LOW FLOW			28*	Oct 8	6.5*	Jan 1 1954
ANNUAL RUNOFF (CFSM)	1.41		1.42		1.93	
ANNUAL RUNOFF (INCHES)	19.09		19.30		26.18	
10 PERCENT EXCEEDS	238		257		327	
50 PERCENT EXCEEDS	104		85		116	
90 PERCENT EXCEEDS	32		40		39	

e Estimated.
* See REMARKS.

03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC--Continued



03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC

LOCATION.--Lat 35°08'59", long 83°22'47", Macon County, Hydrologic Unit 06010202, on left bank 600 ft upstream from Owenby Branch, 0.5 mi upstream from Cartoogechaye Creek, 2 mi north of Prentiss, and at mile 119.5.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 1236: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft above sea level (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record also occurred Aug. 30, 31, Sept. 16, 17, 2000. Minimum discharge for current water year also occurred Aug. 31, Sept. 16, 17.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	123	263	203	260	243	300	300	184	138	131	63
2	101	868	247	201	249	239	493	292	179	128	136	88
3	96	416	238	200	244	233	1370	285	176	122	130	108
4	178	275	229	227	243	235	1600	610	188	118	139	84
5	203	233	220	227	237	230	914	423	235	120	120	82
6	127	208	271	200	231	222	708	355	206	118	101	75
7	111	194	235	196	230	217	606	325	180	113	96	81
8	104	183	220	192	230	213	549	306	169	107	88	83
9	105	175	209	249	231	212	496	292	165	104	85	79
10	546	167	283	741	231	211	461	281	158	103	84	76
11	766	161	272	478	233	380	439	268	153	97	82	70
12	289	155	241	351	338	457	422	259	149	120	80	67
13	224	153	292	312	331	306	429	251	145	114	71	65
14	194	149	837	280	716	277	409	243	150	112	68	64
15	167	145	483	263	481	262	400	237	157	100	66	60
16	154	140	381	256	385	342	437	234	153	92	65	54
17	144	137	330	251	341	552	387	232	198	89	62	53
18	134	136	303	293	323	392	369	232	175	86	60	57
19	128	134	285	285	321	347	353	224	177	86	62	59
20	171	136	275	296	297	1370	340	219	177	90	62	56
21	225	146	275	264	281	833	339	241	165	79	86	238
22	168	160	280	253	272	593	326	269	160	77	79	149
23	150	142	255	e255	264	494	317	225	151	78	71	124
24	140	140	245	e250	260	438	324	228	137	93	68	104
25	134	300	236	e248	255	403	387	216	132	128	62	114
26	132	1410	232	e248	248	378	338	211	144	104	59	144
27	130	613	228	e246	264	369	317	204	130	123	59	98
28	127	395	223	e246	278	359	365	228	134	101	63	87
29	125	328	217	244	248	330	331	206	195	104	56	81
30	123	290	209	279	---	323	310	195	171	94	52	77
31	121	---	206	302	---	313	---	189	---	132	54	---
TOTAL	5633	8212	8720	8536	8522	11773	14836	8280	4993	3270	2497	2640
MEAN	182	274	281	275	294	380	495	267	166	105	80.5	88.0
MAX	766	1410	837	741	716	1370	1600	610	235	138	139	238
MIN	96	123	206	192	230	211	300	189	130	77	52	53
CFSM	1.30	1.96	2.01	1.97	2.10	2.71	3.53	1.91	1.19	.75	.58	.63
IN.	1.50	2.18	2.32	2.27	2.26	3.13	3.94	2.20	1.33	.87	.66	.70

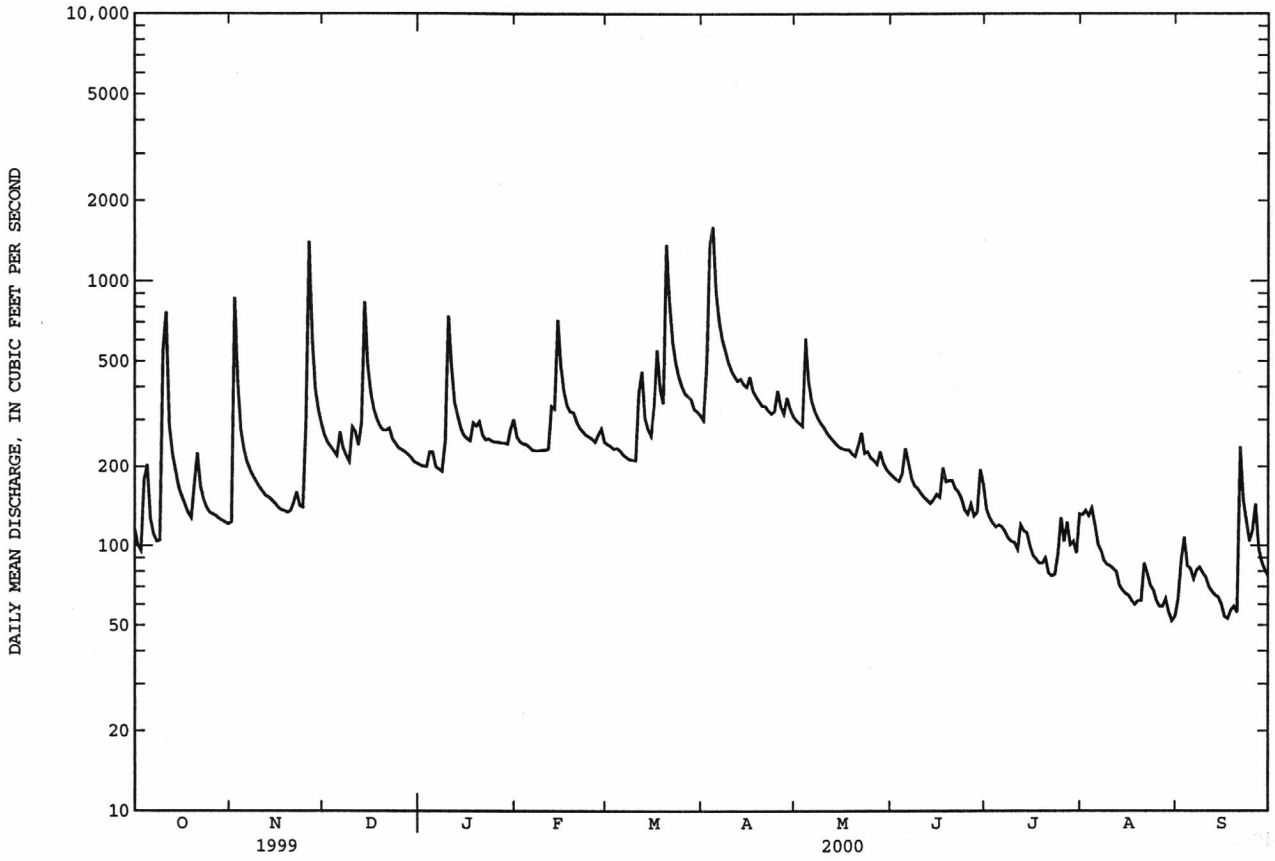
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

MEAN	250	302	394	492	569	612	567	429	342	256	240	219
MAX	1078	815	841	1008	1252	1199	1014	999	694	772	695	671
(WY)	1965	1980	1962	1946	1990	1952	1964	1976	1949	1989	1974	1950
MIN	70.5	101	154	120	222	244	172	157	110	94.8	78.3	80.2
(WY)	1955	1955	1981	1981	1986	1988	1986	1986	1988	1986	1986	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000	
ANNUAL TOTAL	105781		87912			
ANNUAL MEAN	290		240		389	
HIGHEST ANNUAL MEAN					588	1949
LOWEST ANNUAL MEAN					173	1986
HIGHEST DAILY MEAN	1600	Apr 1	1600	Apr 4	7280	Oct 5 1964
LOWEST DAILY MEAN	55	Sep 17	52	Aug 30	52	Aug 30 2000
ANNUAL SEVEN-DAY MINIMUM	62	Sep 14	58	Sep 14	58	Sep 14 2000
INSTANTANEOUS PEAK FLOW			1920	Apr 4	12200	Oct 4 1964
INSTANTANEOUS PEAK STAGE			5.24	Apr 4	17.30	Oct 4 1964
INSTANTANEOUS LOW FLOW			52*	Aug 30	52*	Sep 17 1999
ANNUAL RUNOFF (CFSM)	2.07		1.72		2.78	
ANNUAL RUNOFF (INCHES)	28.11		23.36		37.73	
10 PERCENT EXCEEDS	473		401		700	
50 PERCENT EXCEEDS	246		214		307	
90 PERCENT EXCEEDS	99		80		129	

e Estimated.
* See REMARKS.

03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC--Continued



03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'31", long 83°23'40", Macon County, Hydrologic Unit 06010202, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi downstream of unnamed creek, 1.8 mi south of Franklin, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--57.1 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1958, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record also occurred Oct. 8, 1986. Minimun discharge for current water year also occurred Sept. 17, 20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority; discharge, about 7,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	33	52	44	83	77	100	112	56	39	40	23
2	28	241	48	44	77	74	190	109	54	36	57	31
3	28	71	46	43	75	72	658	105	54	35	46	33
4	58	49	45	53	75	73	987	124	54	34	59	27
5	37	43	44	48	71	70	535	108	105	35	41	24
6	30	40	73	44	69	68	352	101	62	34	34	23
7	29	39	52	43	68	66	272	96	49	33	31	24
8	29	42	48	43	68	65	237	92	44	30	29	24
9	30	37	47	160	68	66	205	89	42	30	29	22
10	128	37	70	521	69	64	183	89	40	29	32	22
11	80	36	61	225	75	343	169	84	38	29	29	21
12	42	35	54	133	213	295	160	80	37	40	27	20
13	43	35	82	108	175	177	183	77	36	36	26	20
14	38	35	202	88	396	139	162	74	36	31	26	20
15	34	36	111	78	227	121	156	71	43	29	25	19
16	32	33	84	76	165	162	147	70	39	27	25	18
17	32	32	71	74	134	168	138	70	60	27	24	18
18	31	33	64	110	125	136	132	70	55	27	24	19
19	30	31	60	93	129	131	127	66	60	27	24	19
20	42	33	57	114	111	524	121	68	82	28	24	18
21	40	37	57	93	103	319	127	76	56	26	25	68
22	34	38	57	88	98	228	116	81	51	26	23	29
23	32	35	52	e86	92	187	111	68	44	26	23	30
24	31	35	51	e84	92	161	120	71	39	33	22	39
25	30	167	48	e82	86	144	157	67	40	36	22	73
26	31	373	48	e80	83	133	133	68	40	31	21	59
27	31	122	47	e77	92	133	120	64	38	53	21	30
28	31	80	46	74	86	123	151	75	36	31	21	27
29	31	64	45	77	79	113	128	66	62	41	20	25
30	31	56	44	100	---	111	119	61	48	33	20	24
31	32	---	44	94	---	106	---	58	---	42	21	---
TOTAL	1184	1978	1910	3077	3284	4649	6496	2510	1500	1014	891	849
MEAN	38.2	65.9	61.6	99.3	113	150	217	81.0	50.0	32.7	28.7	28.3
MAX	128	373	202	521	396	524	987	124	105	53	59	73
MIN	28	31	44	43	68	64	100	58	36	26	20	18
CFSM	.67	1.15	1.08	1.74	1.98	2.63	3.79	1.42	.88	.57	.50	.50
IN.	.77	1.29	1.24	2.00	2.14	3.03	4.23	1.64	.98	.66	.58	.55

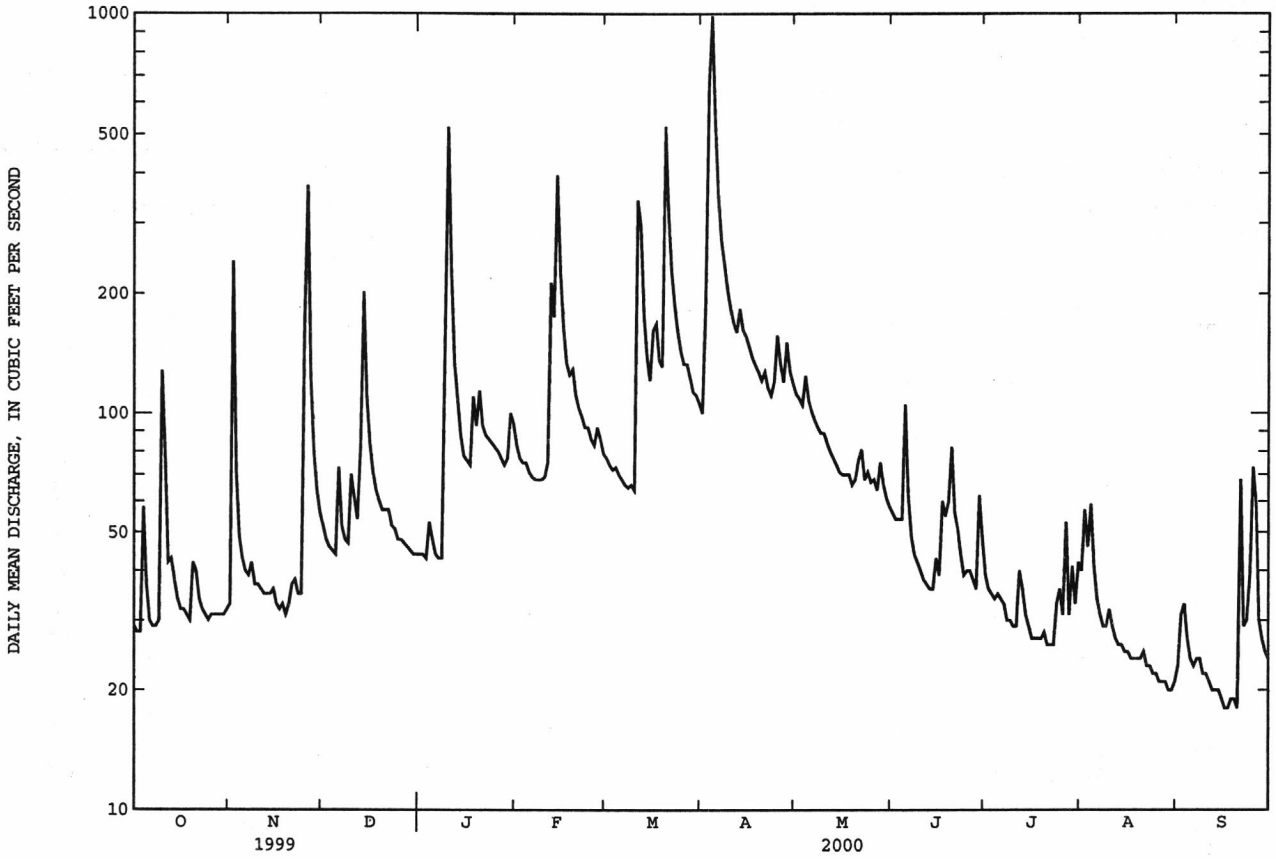
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

MEAN	85.3	108	150	195	226	246	206	156	121	87.0	82.3	71.5
MAX	295	266	317	336	460	440	375	339	259	195	185	161
(WY)	1965	1993	1962	1996	1990	1980	1964	1976	1989	1989	1994	1989
MIN	33.9	41.5	52.2	55.2	102	84.7	72.9	61.2	42.3	32.7	28.7	25.6
(WY)	1979	1979	1966	1981	1986	1988	1986	1986	1988	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1961 - 2000	
ANNUAL TOTAL	36661		29342			
ANNUAL MEAN	100		80.2		144	
HIGHEST ANNUAL MEAN					204	1990
LOWEST ANNUAL MEAN					69.9	1986
HIGHEST DAILY MEAN	574	Feb 1	987	Apr 4	2710	Oct 4 1964
LOWEST DAILY MEAN	22	Sep 17	18	Sep 16	18	Oct 7 1986
ANNUAL SEVEN-DAY MINIMUM	23	Sep 13	19	Sep 14	19	Sep 14 2000
INSTANTANEOUS PEAK FLOW			1380	Apr 4	4720	Oct 4 1964
INSTANTANEOUS PEAK STAGE			7.54	Apr 4	12.96	Oct 4 1964
INSTANTANEOUS LOW FLOW			17*	Sep 16	16*	Oct 7 1986
ANNUAL RUNOFF (CFSM)	1.76		1.40		2.52	
ANNUAL RUNOFF (INCHES)	23.88		19.12		34.25	
10 PERCENT EXCEEDS	189		156		262	
50 PERCENT EXCEEDS	81		54		107	
90 PERCENT EXCEEDS	30		26		48	

e Estimated.
* See REMARKS.

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC--Continued



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC

LOCATION.--Lat 35°20'11", long 83°31'37", Swain County, Hydrologic Unit 06010202, on left bank on Secondary Road 1113, 0.8 mi downstream of DeHart Creek, 0.8 mi north of Needmore, 2.4 mi downstream of Brush Creek, 6.3 mi downstream of Tellico Creek, and at mile 92.9.

DRAINAGE AREA.--436 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to December 1981, October 1983 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft above sea level (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Considerable diurnal fluctuation caused by Porters Bend power plant at Lake Emory, 20 mi upstream. Minimum discharge for period of record also occurred Nov. 8, 1954. Minimum discharge for current water year also occurred Sept. 20.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	328	592	457	633	585	720	795	462	346	506	172
2	258	1670	557	447	589	570	974	770	444	382	519	183
3	253	1070	532	446	569	552	3360	799	406	341	495	231
4	300	625	506	466	566	557	5680	1220	431	330	449	274
5	499	528	490	525	553	544	2930	1070	574	328	409	234
6	338	488	557	442	531	527	1980	878	609	332	330	215
7	295	435	559	435	529	517	1600	820	468	318	299	188
8	251	424	496	428	525	510	1420	768	439	303	282	200
9	255	407	475	535	529	504	1280	737	379	264	281	205
10	614	423	517	1980	500	507	1140	708	410	277	267	198
11	1760	380	682	1380	584	1110	1060	686	389	292	250	188
12	645	376	553	870	898	1520	1080	648	382	332	243	176
13	491	354	559	743	1080	964	1140	627	381	350	238	162
14	490	346	1960	682	1930	805	1090	602	373	310	223	158
15	346	366	1170	623	1450	739	1010	573	391	291	213	154
16	351	355	868	599	1060	760	1040	563	407	227	210	150
17	340	317	740	601	893	1350	948	561	515	249	208	147
18	348	315	673	703	832	995	918	557	505	259	206	142
19	297	321	640	774	820	879	868	541	555	212	201	143
20	315	311	618	742	792	3110	832	537	481	220	213	140
21	525	339	603	701	706	2380	818	566	563	230	240	281
22	401	414	614	633	676	1560	780	720	471	215	206	564
23	354	336	580	668	647	1270	775	576	442	211	199	280
24	339	326	546	722	638	1120	785	604	404	224	202	434
25	319	519	527	687	617	991	1110	569	378	388	221	449
26	318	3470	506	621	605	929	957	552	377	306	222	481
27	323	1500	501	545	607	885	841	520	376	404	195	362
28	323	921	456	604	694	911	1000	548	363	336	189	283
29	313	739	510	580	595	802	950	532	450	285	184	252
30	287	642	462	646	---	778	840	510	532	291	181	213
31	287	---	461	708	---	759	---	474	---	388	180	---
TOTAL	12571	19045	19510	20993	21648	29990	39926	20631	13357	9241	8261	7259
MEAN	406	635	629	677	746	967	1331	666	445	298	266	242
MAX	1760	3470	1960	1980	1930	3110	5680	1220	609	404	519	564
MIN	251	311	456	428	500	504	720	474	363	211	180	140
CFSM	.93	1.46	1.44	1.55	1.71	2.22	3.05	1.53	1.02	.68	.61	.55
IN.	1.07	1.62	1.66	1.79	1.85	2.56	3.41	1.76	1.14	.79	.70	.62

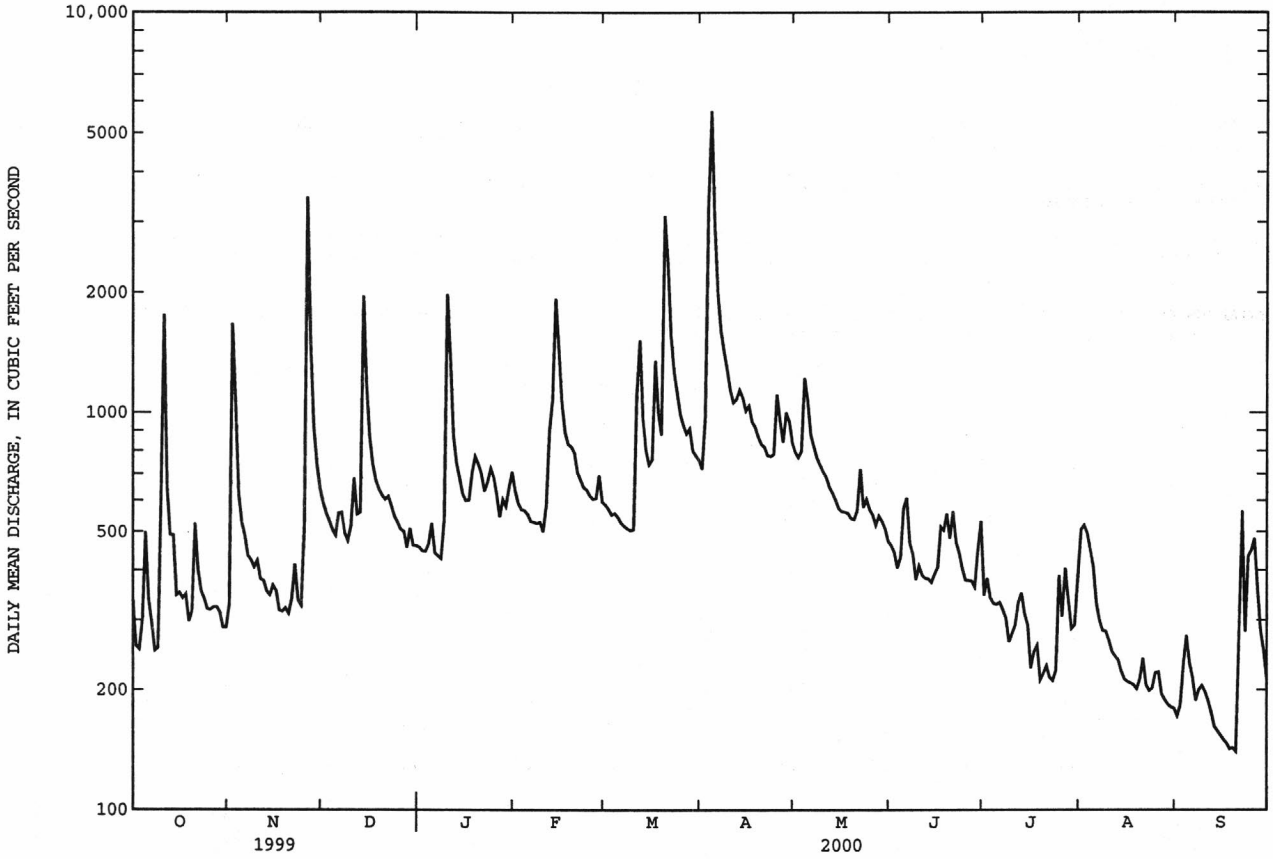
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000@, BY WATER YEAR (WY)

MEAN	651	803	1045	1374	1595	1752	1547	1180	928	695	642	574
MAX	2557	2169	2231	2570	3718	3372	2746	2573	2061	2136	1670	1605
(WY)	1965	1980	1962	1946	1990	1990	1964	1976	1949	1989	1967	1950
MIN	192	282	368	349	660	596	553	489	351	238	213	201
(WY)	1955	1955	1966	1981	1986	1988	1986	1986	1988	1986	1986	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000@	
ANNUAL TOTAL	296565		222432			
ANNUAL MEAN	813		608		1066	
HIGHEST ANNUAL MEAN					1565	1973
LOWEST ANNUAL MEAN					495	1986
HIGHEST DAILY MEAN	6590	Mar 27	5680	Apr 4	17200	Oct 5 1964
LOWEST DAILY MEAN	160	Sep 16	140	Sep 20	71	Nov 7 1954
ANNUAL SEVEN-DAY MINIMUM	162	Sep 13	148	Sep 14	142	Oct 2 1986
INSTANTANEOUS PEAK FLOW			6890	Apr 4	22100	Oct 5 1964
INSTANTANEOUS PEAK STAGE			6.52	Apr 4	12.87	Oct 5 1964
INSTANTANEOUS LOW FLOW			138*	Sep 18	52*	Nov 7 1954
ANNUAL RUNOFF (CFSM)	1.86		1.39		2.44	
ANNUAL RUNOFF (INCHES)	25.30		18.98		33.22	
10 PERCENT EXCEEDS	1460		1050		1930	
50 PERCENT EXCEEDS	647		510		814	
90 PERCENT EXCEEDS	257		221		362	

@ See PERIOD OF RECORD.
* See REMARKS.

03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC--Continued



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC--Continued

PRECIPITATION RECORDS

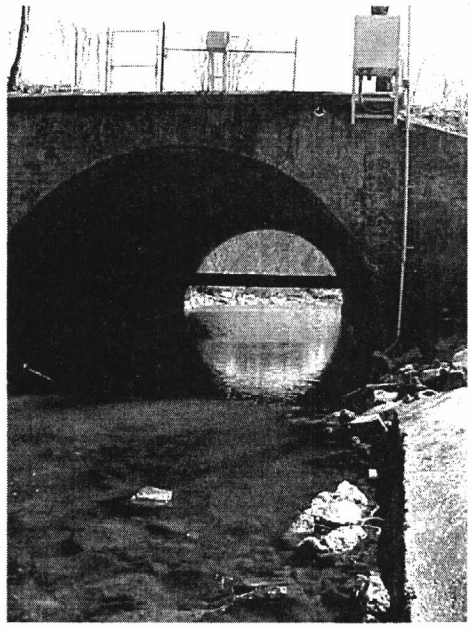
PERIOD OF RECORD.--October 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.47	.00	.00	.01	---	.00	.00	.00	.00	.14	.11
2	.00	1.01	.00	.00	.00	---	.48	.00	.00	.00	.71	.00
3	.00	.00	.00	.00	.00	---	2.30	.31	.07	.00	.32	.00
4	.46	.00	.00	.19	.00	---	.19	.14	.01	.00	.11	.00
5	.00	.00	.30	.00	.00	---	.00	.00	.57	.00	.00	.01
6	.00	.00	.00	.00	.00	---	.00	.00	.04	.13	.00	.00
7	.00	.00	.00	.00	.00	---	.00	.00	.00	.01	.45	.00
8	.00	.00	.00	.00	.00	---	.11	.00	.00	.00	.07	.00
9	.11	.00	.00	1.15	.00	---	.00	.00	.00	.00	.00	.00
10	.62	.00	.40	1.29	.00	---	.00	.03	.00	.00	.56	.00
11	.00	.00	.00	.00	.00	---	.00	.00	.00	.59	.01	.00
12	.00	.00	.00	.00	.77	---	.01	.00	.00	.07	.00	.00
13	.04	.00	.68	.08	.38	---	.56	.00	.03	.00	.00	.00
14	.00	.00	.00	.00	.19	---	.02	.00	.00	.24	.00	.00
15	.00	.00	.00	.00	.00	---	.00	.00	.31	.01	.00	.00
16	.00	.00	.00	.22	---	.28	.00	.00	.54	.00	.00	.00
17	.00	.00	.00	.11	---	.02	.02	.00	.06	.00	.00	.00
18	.00	.00	.00	.73	---	.00	.00	.00	.26	.00	.00	.00
19	.00	.00	.00	.23	---	.22	.00	.00	.63	.13	.00	.00
20	.34	.00	.00	.10	---	.74	.00	.22	.13	.00	.23	.00
21	.23	.04	.16	.00	---	.00	.13	.39	.00	.00	.00	.97
22	.00	.00	.00	.00	---	.00	.00	.01	.16	.00	.00	.18
23	.00	.00	.00	.23	---	.00	.00	.19	.00	.00	.01	.45
24	.00	.00	.02	.36	---	.00	.31	.75	.00	.16	.00	.54
25	.00	2.27	.00	.01	---	.00	.67	.21	.42	.86	.00	.66
26	.00	.19	.00	.00	---	.00	.00	.01	.00	.28	.00	.00
27	.00	.00	.00	.00	---	.33	.06	.06	.00	.00	.05	.00
28	.00	.00	.00	.00	---	.00	.43	.04	.26	.00	.00	.00
29	.00	.00	.00	.13	---	.01	.00	.01	.29	.00	.00	.00
30	.00	.00	.00	.51	---	.00	.00	.00	.00	.05	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.31	.04	---
TOTAL	1.80	3.98	1.56	5.34	---	---	5.29	2.37	3.78	2.84	2.70	2.92



USGS gaging station at Stewart Creek
at State street at Charlotte.

03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC

LOCATION.--Lat 35°07'37", long 83°37'09", Macon County, Hydrologic Unit 06010202, on right bank on Forest Service Road 437 in Nantahala National Forest, 300 ft upstream from Roaring Fork, 0.2 mi downstream of Buck Creek, 4 mi northwest of town of Rainbow Springs, and at mile 34.3.

DRAINAGE AREA.--51.9 mi^2.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 973: 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional slight diurnal fluctuation at low flow caused by small ponds on tributaries upstream from station. Maximum discharge for period of record from rating curve extended above 3,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Oct. 29, Nov. 1, 2, 1998.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	44	95	78	130	134	159	179	93	81	97	41
2	41	343	89	76	126	130	331	174	91	77	149	48
3	39	113	85	76	123	127	799	171	88	73	115	51
4	112	85	81	98	114	128	980	193	89	70	98	46
5	58	75	83	82	110	122	577	168	178	70	77	40
6	45	69	145	74	111	118	451	160	114	70	67	39
7	42	65	92	73	106	116	387	155	96	66	62	53
8	41	62	85	72	105	114	364	151	91	63	59	47
9	42	60	83	251	105	112	322	147	87	63	56	42
10	265	57	127	459	106	111	295	146	83	61	58	40
11	137	56	99	237	119	387	274	139	81	59	66	38
12	73	54	92	181	263	285	261	136	79	79	54	37
13	74	54	149	160	203	208	284	132	76	70	50	36
14	63	52	267	140	428	185	252	127	79	61	48	35
15	55	51	169	130	266	171	244	124	96	63	47	34
16	51	49	145	133	222	254	234	122	90	56	45	32
17	49	48	131	128	197	242	223	120	139	55	44	32
18	48	48	122	208	191	204	212	118	124	53	44	32
19	46	47	115	160	210	204	202	114	127	56	44	33
20	73	48	113	191	180	509	195	121	102	59	46	32
21	64	54	115	153	170	324	211	148	103	51	51	136
22	52	56	111	e150	162	280	190	138	117	50	47	52
23	48	49	100	e145	155	252	182	124	95	50	44	55
24	47	48	97	e140	150	231	195	121	85	69	43	53
25	45	238	94	e137	145	215	261	114	83	72	43	119
26	45	433	e90	e135	140	202	209	110	83	57	40	95
27	45	189	87	e135	168	206	194	106	77	67	44	53
28	43	140	85	e134	146	191	230	124	83	69	43	46
29	43	118	82	134	137	179	197	106	131	97	40	43
30	42	104	80	151	---	176	186	100	94	66	39	41
31	42	---	79	132	---	167	---	97	---	97	39	---
TOTAL	1914	2909	3387	4553	4788	6284	9101	4185	2954	2050	1799	1481
MEAN	61.7	97.0	109	147	165	203	303	135	98.5	66.1	58.0	49.4
MAX	265	433	267	459	428	509	980	193	178	97	149	136
MIN	39	44	79	72	105	111	159	97	76	50	39	32
CFSM	1.19	1.87	2.11	2.83	3.18	3.91	5.85	2.60	1.90	1.27	1.12	.95
IN.	1.37	2.09	2.43	3.26	3.43	4.50	6.52	3.00	2.12	1.47	1.29	1.06

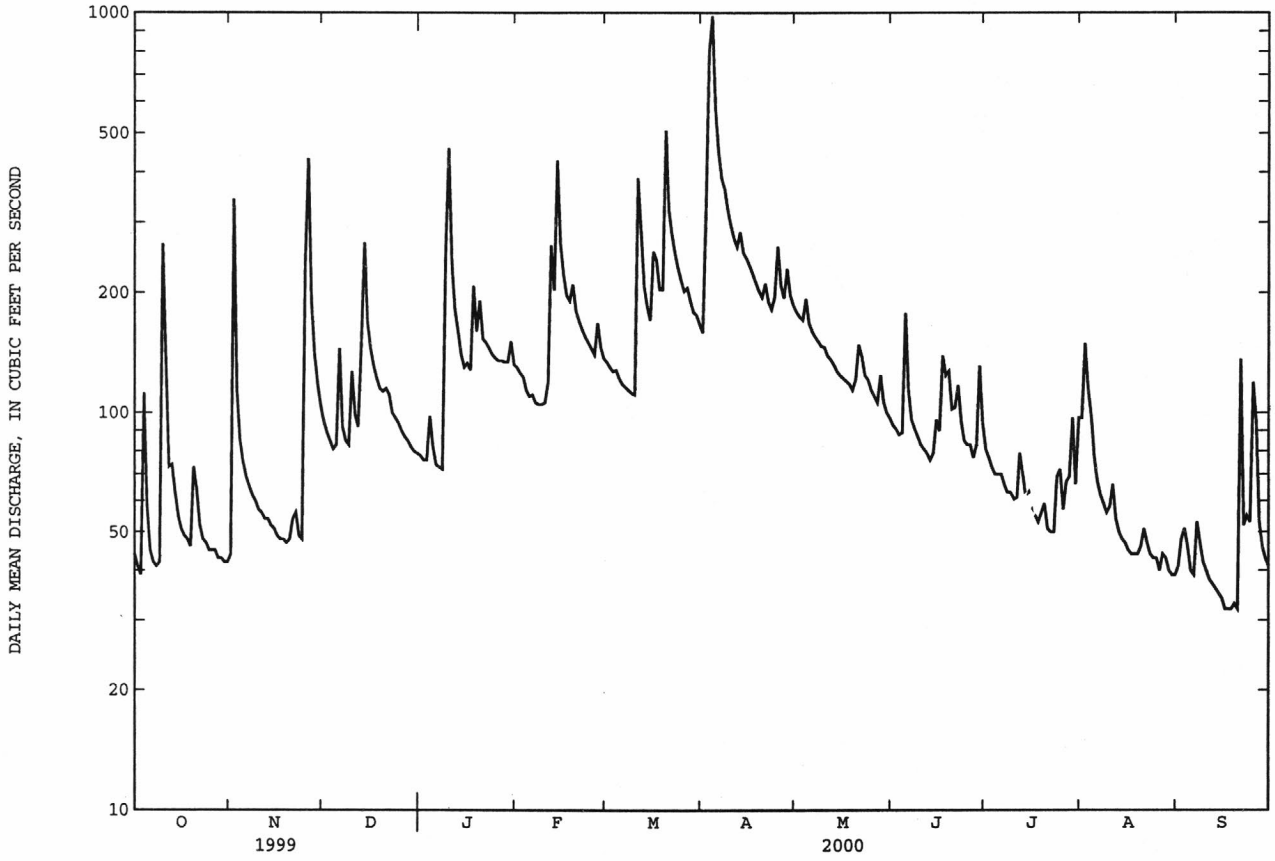
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

MEAN	116	154	223	282	326	324	282	215	173	139	122	106
MAX	415	376	474	568	657	572	493	491	485	335	327	374
(WY)	1965	1978	1993	1974	1957	1979	1979	1976	1989	1989	1994	1950
MIN	38.4	56.6	77.2	84.4	115	138	118	96.8	67.1	59.0	49.5	41.8
(WY)	1999	1955	1959	1981	1941	1988	1986	1986	1986	1986	1986	1986

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	58814		45405			
ANNUAL MEAN	161		124		205	
HIGHEST ANNUAL MEAN					280	1949
LOWEST ANNUAL MEAN					109	1986
HIGHEST DAILY MEAN	608	May 8	980	Apr 4	3060	Jun 16 1949
LOWEST DAILY MEAN	34	Sep 17	32	Sep 16	29	Nov 1 1998
ANNUAL SEVEN-DAY MINIMUM	36	Sep 14	33	Sep 14	30	Oct 26 1998
INSTANTANEOUS PEAK FLOW			1760	Apr 3	6300*	Jun 16 1949
INSTANTANEOUS PEAK STAGE			4.30	Apr 3	9.70	Jun 16 1949
INSTANTANEOUS LOW FLOW			30	Sep 20	29*	Oct 28 1998
ANNUAL RUNOFF (CFSM)	3.10		2.39		3.94	
ANNUAL RUNOFF (INCHES)	42.16		32.54		53.56	
10 PERCENT EXCEEDS	298		230		374	
50 PERCENT EXCEEDS	140		98		162	
90 PERCENT EXCEEDS	45		44		68	

e Estimated.
* See REMARKS.

03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC--Continued



03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC

LOCATION.--Lat 35°27'41", long 83°21'13", Swain County, Hydrologic Unit 06010203, in Cherokee Indian Reservation on left bank 1500 ft upstream from bridge on Secondary Road 1359, 0.5 mi south of Birdtown, 0.6 mi downstream of Adams Creek, 0.6 mi upstream from Goose Creek, 2.2 mi southwest of Cherokee, and at mile 3.1.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,843.30 ft above sea level. Prior to Oct. 1, 1946, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record from floodmarks. Minimum discharge for period of record also occurred Nov. 9, 1987. Minimum discharge for current water year also occurred Sept. 20.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	141	229	183	269	402	360	550	425	370	400	161
2	149	339	213	178	261	386	501	526	403	328	443	198
3	135	280	201	174	262	367	1340	538	393	298	514	193
4	250	204	190	281	255	378	3130	637	396	277	678	169
5	189	188	184	284	244	350	1540	558	405	267	569	171
6	147	181	292	223	236	331	1130	518	399	310	460	156
7	135	181	215	209	239	318	931	508	352	272	424	147
8	131	174	197	201	248	307	865	475	327	243	411	145
9	130	167	189	442	262	302	769	454	311	234	492	141
10	763	161	375	1420	282	294	699	455	295	225	415	140
11	518	158	337	763	337	734	667	418	283	273	360	133
12	295	157	276	534	1330	829	625	398	271	477	297	130
13	240	150	394	487	1100	560	746	382	263	324	264	128
14	207	146	1090	411	2260	497	694	363	263	407	246	124
15	185	142	574	366	1190	457	666	345	340	367	227	120
16	173	137	446	369	888	483	654	334	324	298	215	114
17	164	135	376	367	755	764	604	327	442	262	206	113
18	158	133	331	802	713	592	593	319	366	242	206	115
19	155	132	301	666	1100	537	565	307	328	320	226	115
20	245	132	279	598	816	966	528	325	306	309	216	112
21	227	143	270	484	692	764	535	354	321	247	224	408
22	185	135	273	449	616	659	505	345	437	233	197	238
23	171	129	240	434	556	592	491	316	365	277	186	250
24	162	130	229	394	514	539	514	2290	305	381	217	264
25	158	321	213	354	474	501	795	1080	292	342	204	668
26	153	1500	212	322	444	471	745	799	349	312	177	718
27	149	573	203	e310	495	482	615	656	387	286	181	404
28	146	382	195	e308	478	458	717	602	351	358	177	312
29	142	304	188	e305	422	414	640	579	621	435	162	264
30	139	258	184	e330	---	402	587	511	477	377	154	237
31	138	---	185	e288	---	379	---	459	---	443	152	---
TOTAL	6320	7313	9081	12936	17738	15515	23751	16728	10797	9794	9300	6588
MEAN	204	244	293	417	612	500	792	540	360	316	300	220
MAX	763	1500	1090	1420	2260	966	3130	2290	621	477	678	718
MIN	130	129	184	174	236	294	360	307	263	225	152	112
CFSM	1.11	1.32	1.59	2.27	3.32	2.72	4.30	2.93	1.96	1.72	1.63	1.19
IN.	1.28	1.48	1.84	2.62	3.59	3.14	4.80	3.38	2.18	1.98	1.88	1.33

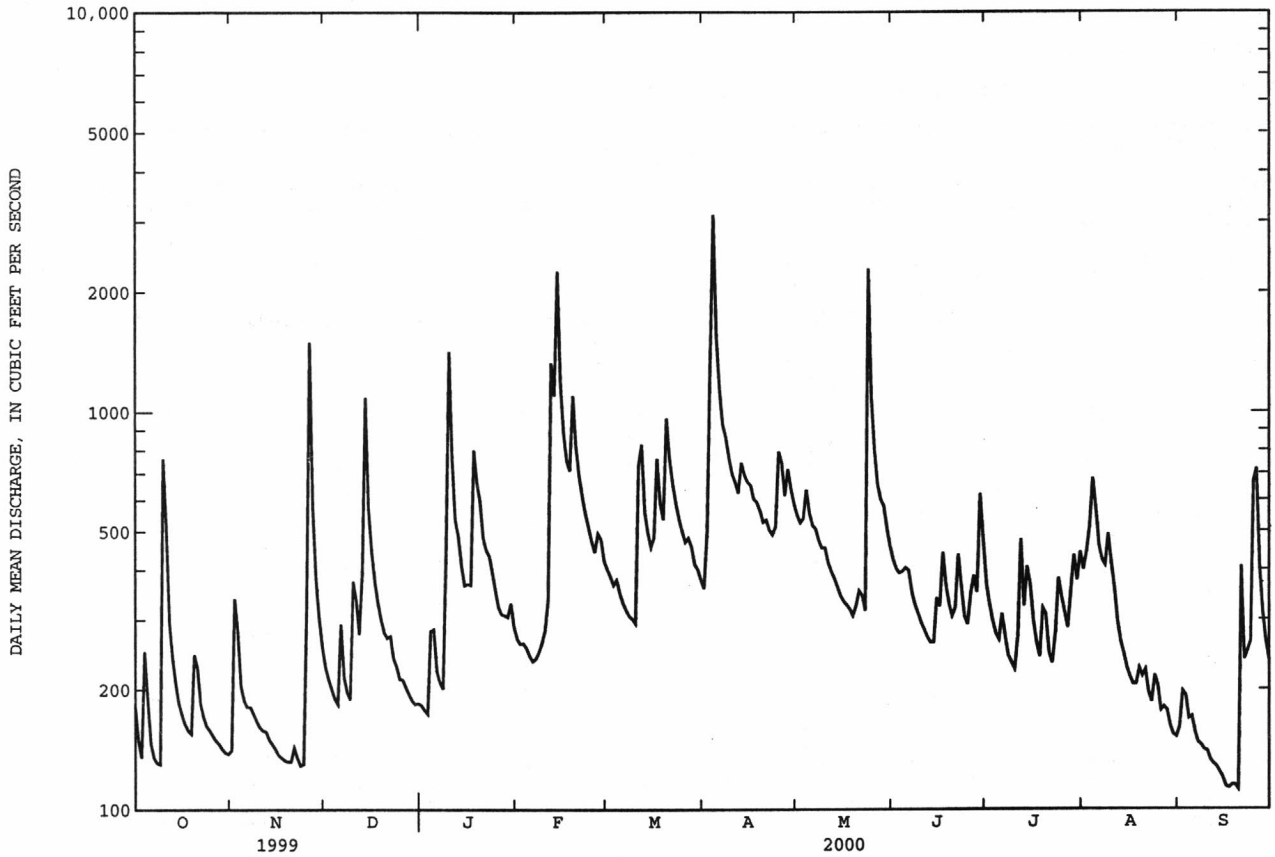
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2000@, BY WATER YEAR (WY)

MEAN	264	382	579	724	811	886	727	538	427	382	328	256
MAX	645	777	1266	1428	1700	1714	1315	1202	1136	938	733	584
(WY)	1990	1958	1962	1974	1990	1963	1994	1984	1989	1989	1994	1989
MIN	94.5	125	162	170	392	330	277	239	175	169	161	121
(WY)	1955	1988	1966	1981	1978	1988	1986	1986	1988	1952	1987	1954

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1945 - 2000@	
ANNUAL TOTAL	145861			
ANNUAL MEAN	399		524	
HIGHEST ANNUAL MEAN			771	1994
LOWEST ANNUAL MEAN			274	1986
HIGHEST DAILY MEAN	3130	Apr 4	8470	Mar 12 1963
LOWEST DAILY MEAN	112	Sep 20	80	Nov 8 1987
ANNUAL SEVEN-DAY MINIMUM	116	Sep 14	82	Oct 16 1954
INSTANTANEOUS PEAK FLOW	6270	Apr 4	15900	Dec 30 1969
INSTANTANEOUS PEAK STAGE	6.71	Apr 4	12.46*	Dec 30 1969
INSTANTANEOUS LOW FLOW	108*	Sep 17	79*	Nov 8 1987
ANNUAL RUNOFF (CFSM)	2.17		2.85	
ANNUAL RUNOFF (INCHES)	29.49		38.67	
10 PERCENT EXCEEDS	696		950	
50 PERCENT EXCEEDS	323		394	
90 PERCENT EXCEEDS	149		168	

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

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC--Continued



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC

LOCATION.--Lat 35°25'40", long 83°26'51", Swain County, Hydrologic Unit 06010203, on left bank 400 ft downstream of bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mi downstream of Deep Creek, and at mile 12.6.

DRAINAGE AREA.--655 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to December 1981, October 1983 to January 1995, April 1996 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,714.54 ft above sea level (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft upstream at datum of 1,716.54 ft. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft upstream at datum of 1,716.54 ft. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum of 1,716.54 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Considerable diurnal fluctuation caused by power plants upstream from station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (stations 03507111, 03507131), and two small reservoirs with a combined capacity of 250 ft^3/s-day. Maximum discharge for period of record, from rating curve extended above 28,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record and minimum daily discharge for period of record also occurred Sept. 10, 1925, caused by filling reservoir on Oconaluftee River. Minimum daily discharge during normal regulation: 186 ft^3/s, Oct. 13, 1925. Minimum discharge for current water year also occurred Sept. 14, 16.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	513	614	1070	958	911	1230	1170	1250	1110	861	1150	612
2	619	1300	1040	535	893	1170	1320	1540	1200	757	1480	543
3	432	974	1000	522	843	1010	3780	1480	1260	715	1120	595
4	655	766	988	973	870	1090	7880	1790	1010	800	1190	554
5	1070	720	977	857	957	840	4410	1930	1000	927	1100	447
6	978	698	1170	633	664	888	3390	1770	1120	883	870	517
7	940	693	970	696	759	1010	3090	1380	945	664	744	407
8	926	690	986	706	898	887	2740	1110	905	605	1080	400
9	678	1160	974	942	819	735	2470	1330	905	594	1240	447
10	1350	942	1230	3310	892	1030	2200	1350	900	579	952	500
11	1710	822	1130	2210	969	2040	1790	1330	755	812	661	464
12	1220	867	850	1820	2840	2090	1870	1090	733	1080	623	510
13	870	856	1090	1570	2310	1440	2380	1240	850	726	585	499
14	705	630	2600	1270	4760	1220	2280	869	960	746	558	554
15	520	684	1670	1080	3180	1120	1930	829	1110	766	537	539
16	558	813	1270	1030	2500	1180	1950	865	1040	640	519	637
17	649	829	1180	893	2060	1700	1810	981	1250	584	509	795
18	641	806	1470	1800	1900	1750	1770	1080	921	561	557	643
19	624	807	1430	1650	2100	1480	1510	915	877	623	730	571
20	773	744	1400	1660	1650	3290	1460	944	835	791	549	637
21	834	627	1390	1510	1540	2750	1880	1200	905	564	572	1040
22	694	639	1170	1520	1580	2400	1560	1160	1120	537	499	712
23	660	808	1170	1060	1610	2140	1390	1080	1010	594	494	716
24	641	856	1100	975	1410	2010	1360	4960	957	777	555	692
25	635	1080	1060	1020	1340	1850	2420	2890	837	887	525	1230
26	629	3660	973	891	1120	1700	2010	2250	798	1040	552	1360
27	627	1920	766	1150	1070	1770	1550	1640	1050	762	556	851
28	621	1450	745	1000	1180	1690	1860	1420	1000	692	470	726
29	606	1280	730	856	1150	1490	1670	1310	1380	860	416	659
30	609	1070	803	857	---	1370	1330	1190	1060	758	484	657
31	607	---	1090	908	---	1190	---	1090	---	903	526	---
TOTAL	23594	29805	35492	36862	44775	47560	68230	45263	29803	23088	22403	19514
MEAN	761	994	1145	1189	1544	1534	2274	1460	993	745	723	650
MAX	1710	3660	2600	3310	4760	3290	7880	4960	1380	1080	1480	1360
MIN	432	614	730	522	664	735	1170	829	733	537	416	400

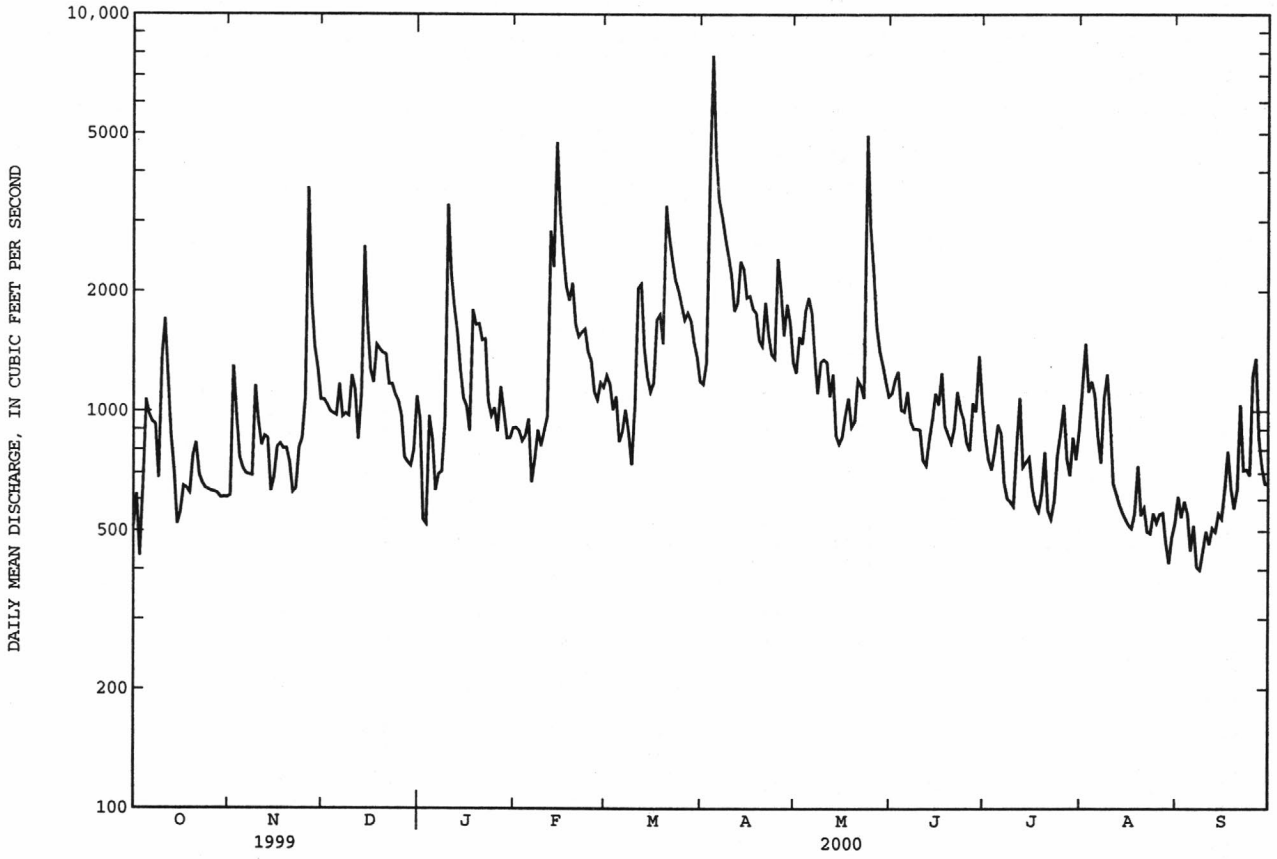
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2000[@], BY WATER YEAR (WY)

MEAN	926	1058	1591	2022	2288	2593	2244	1749	1407	1245	1156	950
MAX	3654	2899	3704	4819	5847	6504	4843	3744	3199	3379	4251	3589
(WY)	1899	1907	1933	1937	1899	1899	1920	1984	1909	1916	1901	1898
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1898 - 2000@	
ANNUAL TOTAL	503626		426389			
ANNUAL MEAN	1380		1165		1598	
HIGHEST ANNUAL MEAN					2576	1899
LOWEST ANNUAL MEAN					879	1986
HIGHEST DAILY MEAN	5730	May 8	7880	Apr 4	28000	Mar 4 1917
LOWEST DAILY MEAN	348	Sep 18	400	Sep 8	31*	Sep 9 1925
ANNUAL SEVEN-DAY MINIMUM	366	Sep 17	455	Sep 5	97	Sep 4 1925
INSTANTANEOUS PEAK FLOW			12800	Apr 4	61600*	Aug 30 1940
INSTANTANEOUS PEAK STAGE			8.18	Apr 4	15.96	Aug 30 1940
INSTANTANEOUS LOW FLOW			374*	Sep 13	27*	Sep 10 1925
10 PERCENT EXCEEDS	2380		1920		2850	
50 PERCENT EXCEEDS	1210		974		1270	
90 PERCENT EXCEEDS	568		560		606	

@ See PERIOD OF RECORD.
* See REMARKS.



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1999 to September 2000.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at site.

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 1999 TO SEPTEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.28	.00	.00	.06	.01	.00	.00	.00	.01	.08	.48
2	.00	.83	.00	.00	.05	.00	.80	.01	.00	.00	.11	.02
3	.00	.00	.00	.00	.02	.05	1.84	.12	.02	.01	.00	.00
4	.62	.00	.00	.29	.00	.11	.19	.42	.00	.00	.30	.00
5	.00	.00	.41	.00	.00	.00	.00	.00	.32	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00
9	.13	.00	.00	1.00	.00	.00	.00	.00	.00	.00	.00	.05
10	.62	.00	.33	.83	.06	.00	.00	.09	.00	.00	.27	.00
11	.01	.00	.01	.00	.01	1.15	.00	.00	.00	.49	.00	.00
12	.00	.00	.00	.00	1.04	.01	.02	.00	.00	.03	.00	.00
13	.08	.00	.66	.11	.43	.00	.39	.00	.00	.01	.00	.00
14	.00	.00	.00	.00	.20	.00	.06	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.86	.01	.00	.00
16	.00	.00	.05	.18	.00	.51	.00	.00	.58	.00	.00	.00
17	.00	.00	.00	.13	.02	.05	.03	.00	.50	.00	.00	.02
18	.00	.00	.00	.76	.09	.00	.00	.00	.05	.00	.01	.00
19	.01	.00	.00	.20	.30	.06	.00	.00	.13	.31	.00	.00
20	.31	.00	.02	.29	.00	.83	.00	.34	.09	.00	.22	.00
21	.00	.11	.19	.00	.00	.00	.18	.18	.22	.00	.00	.64
22	.00	.01	.01	.00	.00	.00	.00	.38	.16	.00	.00	.20
23	.00	.00	.00	.29	.00	.00	.00	.07	.05	.53	.04	.23
24	.00	.00	.02	.29	.00	.02	.40	.42	.02	.68	.00	.37
25	.00	2.50	.00	.01	.00	.00	.48	.21	.00	.57	.00	.84
26	.00	.26	.00	.00	.00	.00	.00	.03	.01	.00	.00	.00
27	.00	.00	.00	.03	.17	.36	.07	1.04	.01	.00	.07	.00
28	.00	.00	.00	.05	.00	.00	.56	.04	.01	.00	.00	.00
29	.00	.00	.00	.19	.00	.03	.00	.00	.01	.02	.00	.00
30	.00	.00	.00	.36	---	.04	.00	.00	.00	.31	.00	.00
31	.00	---	.00	.01	---	.00	---	.00	---	.61	.00	---
TOTAL	1.78	3.99	1.70	5.02	2.45	3.23	5.20	3.35	3.04	3.60	1.11	2.85

USGS gaging station at Newfound Creek near Alexander.

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC

LOCATION.--Lat 35°26'18", long 83°55'08", Graham County, Hydrologic Unit 06010204, on right bank, 93 ft downstream of U.S. Forest Service bridge number 62 on Slickrock Road, 1.7 mi upstream of mouth, and 1.2 mi east southeast of Tapoco.

DRAINAGE AREA.--206 mi^2.

WATER-DISCHAGE RECORDS

PERIOD OF RECORD.--October 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 1,260 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation at times caused by Santeetlah Dam, 10.3 mi upstream. Water from Santeetlah Lake, 10.3 mi upstream, is diverted to hydro powerplant on the Little Tennessee River, which bypasses gage. Minimum discharge for current water year also occurred Sept. 17, 20.

EXTREMES FOR PERIOD OCT. 1999 TO SEPT. 2000.--Maximum, 5.45 ft, Apr. 3, 2000; minimum, 1.03 ft, Sept. 16, 17, 2000.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	18	22	21	48	48	47	83	39	41	33	15
2	15	56	21	21	43	46	73	80	37	33	59	22
3	15	33	21	21	41	44	379	87	40	30	44	22
4	29	23	20	55	42	58	612	96	41	40	43	20
5	21	21	20	45	39	52	269	80	50	39	40	16
6	17	20	26	33	38	47	188	75	53	43	31	15
7	16	20	22	29	37	45	148	70	41	42	28	14
8	15	19	20	27	38	43	143	67	36	34	26	13
9	16	19	19	100	39	43	122	63	34	32	25	13
10	74	19	37	298	40	42	109	63	32	32	30	13
11	45	18	32	120	47	197	100	58	31	112	30	12
12	26	18	25	73	252	168	98	56	30	592	24	12
13	23	18	35	67	154	95	125	53	29	560	21	11
14	21	18	165	53	302	74	117	50	29	281	20	11
15	20	17	60	46	157	64	105	48	e36	120	19	10
16	19	17	42	44	109	66	96	47	30	36	18	9.2
17	19	16	35	46	86	154	91	47	39	30	18	9.1
18	18	17	31	96	76	101	87	46	45	28	17	9.6
19	18	17	29	80	87	92	82	43	38	29	19	10
20	27	17	27	100	71	202	77	50	55	30	18	9.4
21	24	17	28	75	63	127	90	55	50	26	21	42
22	20	17	33	64	59	97	82	52	76	24	19	19
23	19	17	27	e60	55	82	78	49	46	36	18	18
24	18	17	25	e100	53	72	110	59	35	37	18	24
25	18	55	24	e56	51	66	164	58	31	29	18	107
26	18	132	e23	e48	48	61	136	54	150	27	15	47
27	18	46	23	e46	59	65	143	49	158	25	15	24
28	18	31	22	e44	58	62	176	61	109	25	16	18
29	18	26	21	48	50	54	105	51	107	30	14	16
30	18	23	21	68	---	53	91	45	81	25	13	15
31	17	---	21	55	---	50	---	41	---	34	13	---
TOTAL	677	802	977	2039	2242	2470	4243	1836	1608	2502	743	596.3
MEAN	21.8	26.7	31.5	65.8	77.3	79.7	141	59.2	53.6	80.7	24.0	19.9
MAX	74	132	165	298	302	202	612	96	158	592	59	107
MIN	15	16	19	21	37	42	47	41	29	24	13	9.1

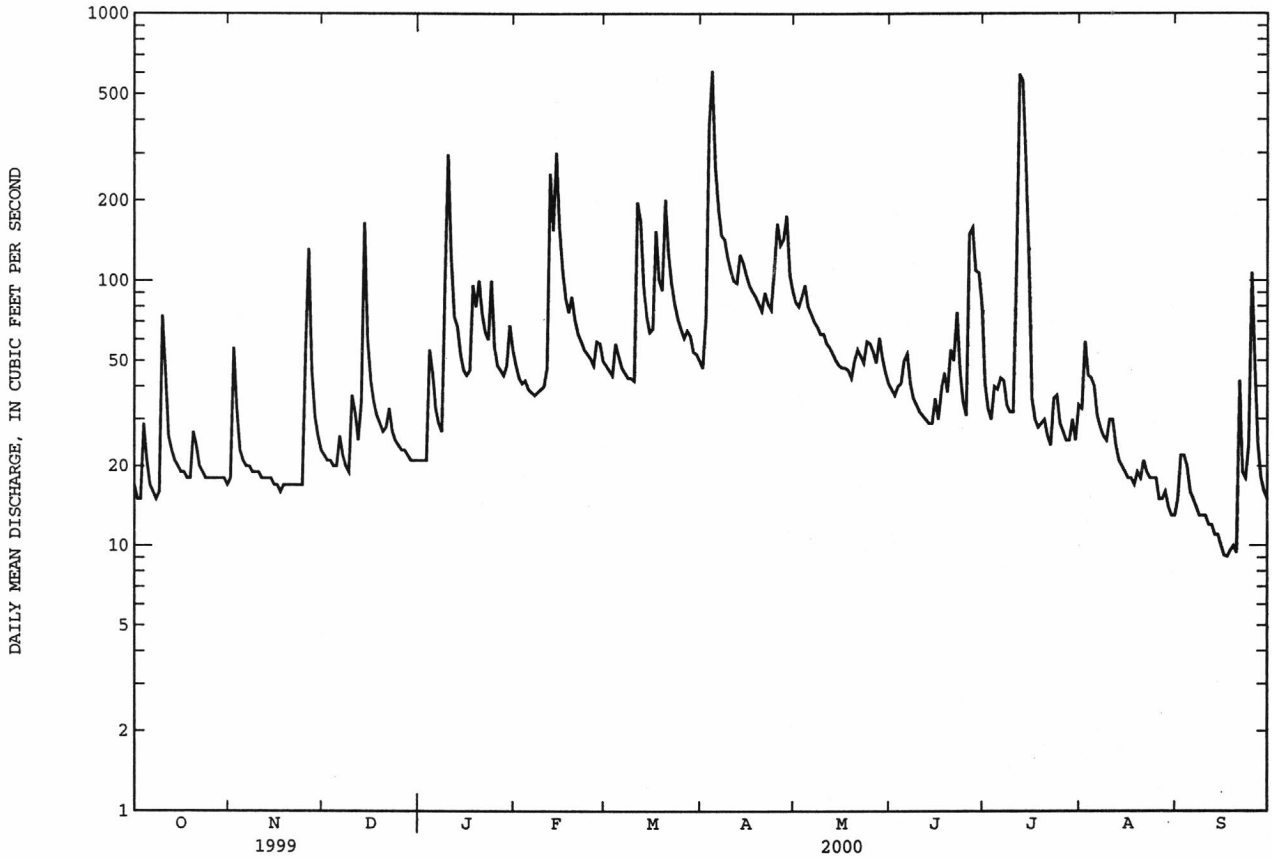
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2000, BY WATER YEAR (WY)

MEAN	21.8	26.7	31.5	65.8	77.3	79.7	141	59.2	53.6	80.7	24.0	19.9
MAX	21.8	26.7	31.5	65.8	77.3	79.7	141	59.2	53.6	80.7	24.0	19.9
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	21.8	26.7	31.5	65.8	77.3	79.7	141	59.2	53.6	80.7	24.0	19.9
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	20735.3	
ANNUAL MEAN	56.7	
HIGHEST DAILY MEAN	612	Apr 4
LOWEST DAILY MEAN	9.1	Sep 17
ANNUAL SEVEN-DAY MINIMUM	9.8	Sep 14
INSTANTANEOUS PEAK FLOW	1280	Apr 3
INSTANTANEOUS PEAK STAGE	4.91	Apr 3
INSTANTANEOUS LOW FLOW	8.8*	Sep 16
10 PERCENT EXCEEDS	109	
50 PERCENT EXCEEDS	39	
90 PERCENT EXCEEDS	17	

e Estimated.
* See REMARKS.

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC--Continued



0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to September 2000.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1999 to September 2000.

INSTRUMENTATION.--Temperature probe since October 1999. Satellite telemetry at station.

REMARKS.--Station operated in cooperation with Tapoco, Inc.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 29.0°C, Aug. 9; minimum recorded, 0°C, Dec. 26, Jan. 26, 27, 28.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.2	13.3	15.7	15.4	13.0	14.3	4.2	2.7	3.5	7.4	4.1	5.5
2	18.9	14.0	16.2	14.8	10.6	13.3	4.3	2.2	3.3	9.6	6.8	8.1
3	18.5	14.9	16.7	10.6	7.5	8.9	6.0	3.4	4.5	11.8	8.9	10.3
4	18.7	17.4	17.9	8.5	5.8	7.3	8.3	5.8	6.9	11.9	9.0	11.1
5	19.5	16.0	17.4	8.9	6.0	7.5	10.3	6.7	8.4	9.0	4.9	6.6
6	18.9	14.6	16.4	9.3	6.8	8.1	10.0	6.7	8.6	5.0	3.5	4.2
7	18.3	13.9	16.0	11.7	8.4	10.0	6.7	4.6	5.5	4.3	2.5	3.3
8	17.3	14.3	15.8	12.9	10.3	11.5	5.7	3.7	4.7	4.8	2.4	3.6
9	17.6	16.1	16.8	12.9	10.6	11.8	8.4	4.8	6.7	7.2	4.8	6.1
10	17.2	16.5	16.8	12.5	10.5	11.6	9.8	8.4	9.3	8.9	7.2	8.2
11	20.1	16.6	18.0	13.9	11.9	12.7	9.1	7.3	8.2	7.9	6.7	7.2
12	19.4	16.7	18.1	12.6	10.6	11.8	9.2	6.8	7.9	6.8	5.2	6.2
13	18.8	17.1	17.8	12.0	9.9	11.1	11.6	9.2	10.8	9.3	6.3	7.9
14	19.6	16.6	17.7	12.3	9.5	11.0	11.6	8.4	10.0	6.3	3.0	4.4
15	18.8	15.3	16.9	11.6	8.8	10.3	8.4	6.7	7.4	4.0	1.8	3.0
16	18.5	14.8	16.6	8.8	6.9	7.9	6.9	4.5	5.7	5.7	3.5	4.5
17	18.7	15.0	16.6	7.2	5.4	6.4	4.8	3.3	4.0	7.4	5.7	6.5
18	17.1	14.6	15.9	6.3	4.8	5.7	5.5	3.2	4.3	7.3	6.7	6.9
19	14.9	13.4	14.2	8.0	5.0	6.5	7.6	5.0	6.2	6.8	5.4	6.1
20	14.3	12.5	13.5	10.5	7.5	9.1	9.2	7.4	8.3	6.1	3.2	5.2
21	14.2	11.4	12.5	12.2	10.3	11.2	8.7	6.8	7.9	3.2	.7	1.7
22	13.5	9.9	11.7	12.2	10.5	11.4	6.8	4.3	5.7	1.2	.1	.6
23	11.9	9.9	11.0	12.5	10.2	11.4	4.3	2.8	3.5	---	---	---
24	10.4	8.5	9.4	13.1	11.2	12.2	3.0	2.2	2.7	3.4	2.4	3.1
25	10.5	7.0	8.8	13.5	12.3	12.9	2.2	.4	1.1	2.4	.3	1.4
26	10.8	7.4	9.2	12.9	10.5	12.4	1.8	.0	.7	.3	.0	.1
27	11.5	8.1	9.9	10.5	8.6	9.5	1.9	.4	1.1	.2	.0	.0
28	12.0	8.8	10.5	9.2	7.3	8.3	2.8	1.0	1.8	.9	.0	.4
29	12.7	9.6	11.2	8.6	6.9	7.9	3.5	2.0	2.6	1.9	.6	1.1
30	13.8	10.7	12.3	6.9	4.1	5.4	3.7	1.3	2.5	3.4	1.9	2.7
31	14.9	12.0	13.5	---	---	---	4.9	2.7	3.7	2.7	1.4	2.0
MONTH	20.1	7.0	14.5	15.4	4.1	10.0	11.6	.0	5.4	---	---	---

0351706800 CHEOAH RIVER NEAR BEAR PEN GAP NEAR TAPOCO, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.9	.3	1.1	12.1	8.2	10.0	16.1	11.5	13.8	17.2	11.4	14.3
2	2.5	.1	1.2	12.2	8.6	10.1	14.2	13.3	13.7	18.2	14.4	15.9
3	2.9	.1	1.5	11.0	7.6	9.2	13.7	12.4	13.1	17.4	14.3	15.8
4	3.2	2.0	2.6	11.3	9.2	9.8	12.4	9.0	10.9	18.2	14.8	16.2
5	3.0	1.3	2.0	12.0	7.7	9.5	11.7	7.4	9.4	19.0	14.4	16.6
6	3.2	.3	1.7	12.5	7.6	9.8	14.5	8.7	11.3	20.5	15.1	17.6
7	3.8	1.0	2.4	13.3	8.4	10.7	16.0	10.7	13.2	20.2	16.1	18.1
8	5.0	1.8	3.3	14.3	9.4	11.7	14.1	8.3	11.5	20.3	16.3	18.1
9	5.5	2.3	3.8	13.7	10.7	12.0	11.8	6.7	9.0	19.4	16.5	18.0
10	5.9	2.8	4.4	13.7	10.8	12.3	12.4	7.2	10.0	20.4	16.8	18.0
11	8.5	5.2	6.7	12.9	10.5	12.1	12.5	9.8	11.4	21.3	14.8	18.0
12	7.7	6.6	7.2	10.5	6.6	8.1	13.9	11.4	12.4	23.7	17.3	20.1
13	9.1	6.8	8.0	9.5	5.3	7.2	12.9	11.7	12.0	21.9	18.9	20.3
14	9.1	7.6	8.5	10.2	5.7	8.0	14.1	11.2	12.6	22.1	17.0	19.2
15	8.4	6.3	7.4	11.6	7.8	9.7	14.8	12.6	13.5	19.7	14.8	17.2
16	10.3	7.3	8.7	12.1	10.2	11.1	16.9	12.1	14.3	19.1	13.6	16.4
17	9.7	7.0	8.6	11.6	8.8	10.6	16.2	13.1	14.3	17.1	15.2	16.2
18	11.7	8.6	10.1	10.6	7.0	8.9	13.3	11.7	12.2	22.1	15.5	18.4
19	11.0	7.2	9.6	10.0	8.7	9.3	17.5	11.4	14.0	22.6	17.9	20.0
20	8.2	5.7	6.8	12.2	9.4	10.7	17.2	13.1	15.1	20.7	18.8	19.8
21	7.4	4.2	5.8	13.1	9.1	11.0	15.9	11.4	13.6	19.6	17.9	18.5
22	7.3	5.3	6.3	13.2	8.8	11.0	11.5	9.9	10.6	22.5	17.2	19.4
23	9.5	6.2	7.8	14.0	9.2	11.6	12.7	9.0	10.9	20.8	17.0	18.8
24	10.3	7.6	8.9	15.1	10.4	12.7	12.0	11.3	11.6	19.5	18.0	18.6
25	12.6	8.9	10.7	15.1	11.6	13.4	11.4	10.8	11.2	21.4	18.2	19.5
26	14.2	10.0	11.9	15.1	12.1	13.5	14.5	9.9	11.9	20.8	18.2	19.6
27	12.2	10.5	11.7	12.3	10.0	10.8	14.3	9.2	12.1	23.5	18.3	20.5
28	11.9	8.8	10.1	13.4	8.4	10.6	15.1	12.0	13.4	22.2	19.0	20.2
29	11.1	7.1	9.0	10.3	8.2	9.4	14.9	11.6	13.3	19.8	17.7	18.4
30	---	---	---	13.7	9.1	11.3	16.6	10.6	13.4	22.5	16.1	18.9
31	---	---	---	15.3	10.9	12.9	---	---	---	23.9	17.5	20.4
MONTH	14.2	.1	6.5	15.3	5.3	10.6	17.5	6.7	12.3	23.9	11.4	18.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.1	18.6	21.6	25.5	19.0	21.9	24.4	21.4	22.6	24.5	21.7	23.0
2	26.0	19.8	22.6	24.7	19.5	22.1	22.6	20.6	21.8	24.5	22.1	23.3
3	23.9	20.4	22.1	26.9	20.1	23.1	26.3	20.3	22.7	25.4	21.9	23.6
4	22.2	19.7	20.9	25.5	20.8	23.2	24.9	21.6	22.8	26.6	22.1	24.0
5	20.9	19.3	19.9	25.2	22.2	23.7	26.4	20.6	23.1	25.7	22.2	23.8
6	19.3	16.8	18.0	25.5	22.1	23.5	26.7	22.0	23.9	24.8	21.4	23.0
7	21.8	14.4	17.8	27.6	22.0	24.3	27.0	22.3	24.4	23.1	20.9	22.0
8	22.4	15.8	19.0	27.4	22.0	24.4	28.1	22.9	25.1	25.1	20.8	22.6
9	24.4	17.2	20.5	28.3	22.4	25.0	29.0	22.9	25.5	25.1	21.8	23.4
10	24.9	18.5	21.6	28.4	22.8	25.3	26.9	23.2	25.1	26.9	22.2	24.3
11	25.9	19.6	22.6	27.0	23.7	25.0	28.0	23.4	25.1	26.8	22.3	24.3
12	25.4	20.3	22.8	27.2	22.6	24.7	26.7	20.8	23.5	25.4	21.9	23.7
13	23.1	20.2	21.8	27.2	21.7	24.4	25.7	19.7	22.5	27.0	22.1	24.2
14	27.5	20.6	23.6	27.6	22.5	25.2	26.1	19.4	22.5	27.0	21.7	24.0
15	---	---	---	27.2	22.7	25.0	26.7	19.8	23.0	25.8	21.0	22.8
16	23.6	21.7	22.4	27.7	21.8	24.4	27.4	21.0	24.0	22.8	17.4	19.7
17	23.4	20.2	21.7	26.8	20.7	23.7	28.3	22.4	25.2	21.0	15.3	18.1
18	25.1	21.0	22.8	25.5	21.2	23.5	27.2	23.5	25.3	20.6	16.4	18.3
19	24.4	21.2	22.7	26.3	21.8	23.6	28.2	22.7	25.1	23.0	16.3	19.2
20	23.6	20.8	22.1	28.6	22.6	25.1	24.5	22.4	23.1	22.6	17.5	20.0
21	23.9	20.1	21.8	27.9	22.3	24.9	23.2	21.4	22.1	21.5	19.2	20.5
22	22.4	20.7	21.4	28.3	22.6	25.0	24.2	19.9	21.8	21.3	19.3	20.3
23	26.2	19.4	22.3	24.8	22.0	22.9	24.8	20.2	22.3	22.6	19.6	20.9
24	24.6	19.9	22.3	24.0	20.9	22.4	24.5	21.4	22.7	23.0	20.3	21.5
25	25.8	20.7	22.8	24.9	20.6	22.7	27.1	21.4	23.9	21.6	18.8	20.2
26	24.8	21.3	22.9	27.0	21.0	23.7	26.7	21.0	23.7	18.8	15.1	16.8
27	24.8	22.4	23.4	27.8	21.6	24.4	26.0	21.6	23.4	18.3	13.5	15.5
28	23.8	21.5	22.9	27.3	21.9	24.3	25.8	21.5	23.3	18.6	13.5	15.7
29	22.5	20.5	21.3	26.1	22.0	23.8	27.4	21.2	23.9	18.7	13.5	15.8
30	24.3	19.5	21.6	24.7	22.3	23.4	27.3	21.5	24.1	19.1	13.9	16.3
31	---	---	---	24.1	21.8	22.7	24.8	22.5	23.6	---	---	---
MONTH	---	---	---	28.6	19.0	23.9	29.0	19.4	23.6	27.0	13.5	21.0

0351751500 CHEOAH RIVER NEAR TAPOCO, NC

LOCATION.--Lat 35°26'51", long 83°56'22", 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 mi^2.

PERIOD OF RECORD.--October 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above sea level, from topographic map. Satellite telemetry at station.

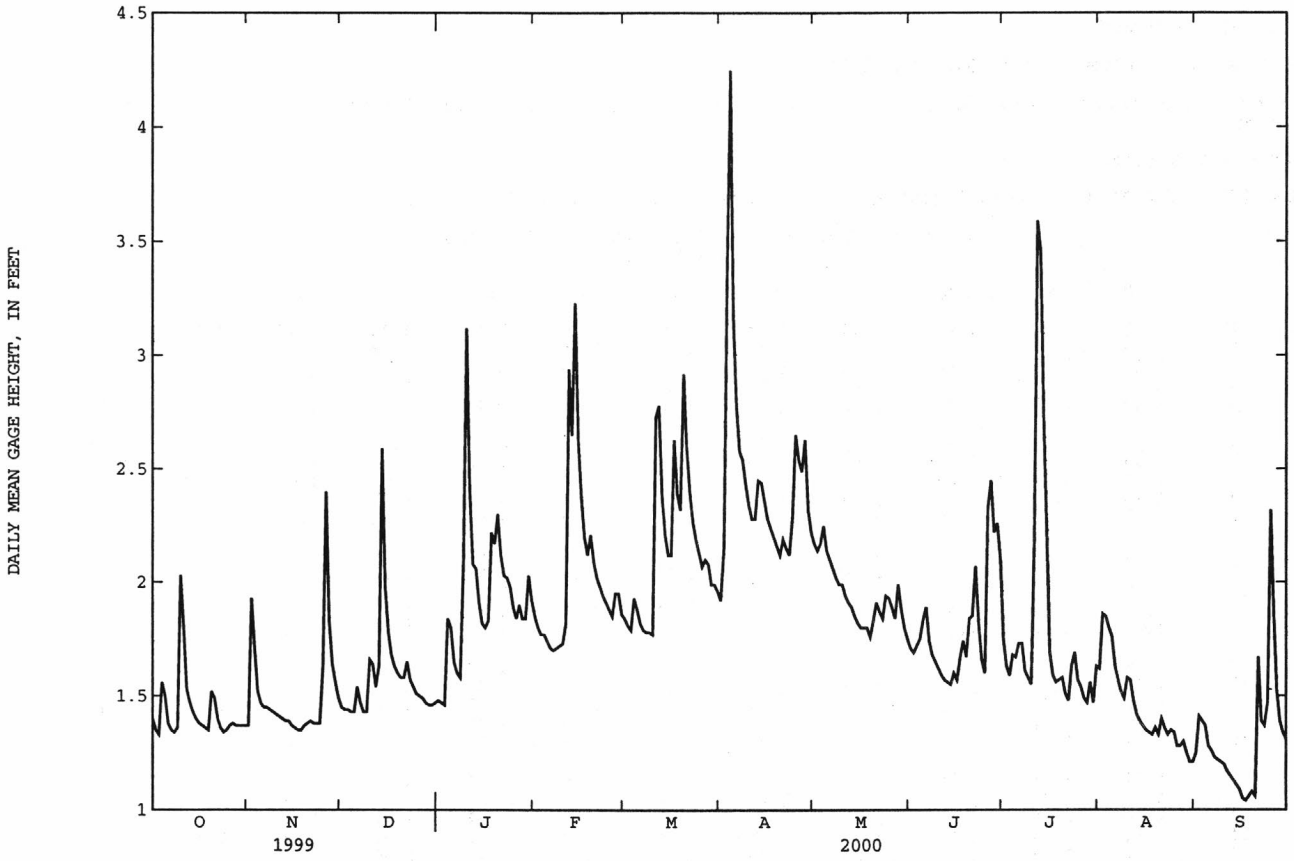
REMARKS.--Records good.

EXTREMES FOR PERIOD OCTOBER 1999 TO SEPTEMBER 2000.--Maximum, 5.45 ft, Apr. 3, 2000; minimum, 1.03 ft, Sept. 16, 17, 2000.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.40	1.37	1.45	1.48	1.85	1.84	1.92	2.17	1.71	1.75	1.62	1.25
2	1.35	1.93	1.44	1.47	1.80	1.81	2.15	2.14	1.69	1.63	1.86	1.41
3	1.33	1.71	1.44	1.46	1.77	1.79	3.36	2.17	1.72	1.59	1.85	1.39
4	1.56	1.52	1.43	1.84	1.77	1.93	4.25	2.25	1.75	1.68	1.80	1.37
5	1.50	1.47	1.43	1.80	1.74	1.88	3.17	2.14	1.83	1.67	1.76	1.28
6	1.38	1.45	1.54	1.65	1.71	1.82	2.78	2.10	1.89	1.73	1.63	1.26
7	1.35	1.45	1.47	1.60	1.70	1.79	2.58	2.06	1.74	1.73	1.57	1.23
8	1.34	1.44	1.43	1.58	1.71	1.78	2.54	2.02	1.68	1.61	1.52	1.22
9	1.36	1.43	1.43	2.09	1.72	1.78	2.43	1.99	1.65	1.58	1.49	1.21
10	2.03	1.42	1.66	3.12	1.73	1.77	2.34	1.99	1.62	1.55	1.58	1.20
11	1.81	1.41	1.64	2.41	1.82	2.73	2.28	1.94	1.59	2.20	1.57	1.17
12	1.53	1.40	1.54	2.08	2.94	2.78	2.28	1.91	1.57	3.59	1.48	1.15
13	1.47	1.39	1.63	2.06	2.65	2.38	2.45	1.89	1.56	3.46	1.42	1.13
14	1.43	1.39	2.59	1.91	3.23	2.21	2.44	1.85	1.55	2.73	1.39	1.11
15	1.40	1.37	1.98	1.82	2.63	2.12	2.36	1.82	1.60	2.22	1.37	1.09
16	1.38	1.36	1.78	1.80	2.37	2.12	2.28	1.80	1.57	1.69	1.35	1.05
17	1.37	1.35	1.68	1.83	2.20	2.63	2.24	1.80	1.67	1.59	1.34	1.04
18	1.36	1.35	1.63	2.22	2.12	2.39	2.20	1.80	1.74	1.56	1.33	1.06
19	1.35	1.37	1.60	2.17	2.21	2.32	2.16	1.76	1.67	1.57	1.36	1.08
20	1.52	1.38	1.58	2.30	2.09	2.92	2.12	1.83	1.84	1.58	1.33	1.06
21	1.49	1.39	1.58	2.12	2.02	2.60	2.19	1.91	1.85	1.51	1.40	1.67
22	1.40	1.38	1.65	2.03	1.98	2.40	2.15	1.87	2.07	1.48	1.36	1.39
23	1.36	1.38	1.57	2.02	1.94	2.27	2.12	1.84	1.82	1.63	1.33	1.37
24	1.34	1.38	1.54	1.98	1.91	2.19	2.29	1.94	1.66	1.69	1.35	1.47
25	1.35	1.63	1.51	1.89	1.88	2.13	2.65	1.93	1.60	1.57	1.34	2.32
26	1.37	2.40	1.50	1.84	1.85	2.07	2.54	1.89	2.33	1.54	1.28	1.86
27	1.38	1.83	1.49	1.90	1.95	2.10	2.49	1.84	2.45	1.49	1.28	1.52
28	1.37	1.64	1.47	1.84	1.95	2.08	2.63	1.99	2.22	1.47	1.30	1.39
29	1.37	1.56	1.46	1.84	1.86	1.99	2.32	1.88	2.26	1.56	1.25	1.34
30	1.37	1.49	1.46	2.03	---	1.99	2.22	1.80	2.10	1.47	1.21	1.31
31	1.37	---	1.47	1.92	---	1.96	---	1.75	---	1.63	1.21	---
MEAN	1.43	1.50	1.58	1.94	2.04	2.15	2.46	1.94	1.80	1.80	1.45	1.31
MAX	2.03	2.40	2.59	3.12	3.23	2.92	4.25	2.25	2.45	3.59	1.86	2.32
MIN	1.33	1.35	1.43	1.46	1.70	1.77	1.92	1.75	1.55	1.47	1.21	1.04

0351751500 CHEOAH RIVER NEAR TAPOCO, NC--Continued



03548500 HIWASSEE RIVER ABOVE MURPHY, NC

LOCATION.--Lat 35°04'49", 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 mi^2.

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to current year. 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 sea level (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 ft^3/s-day. Flow regulated since 1942 by Chatuge Lake (station 03546500) 22 mi upstream. Prior to regulation, maximum discharge: 23,100 ft^3/s, Mar. 19, 1899, from rating curve extended above 5,000 ft^3/s; gage height: 18.4 ft, from graph based on gage readings, site and datum then in use; minimum daily discharge: 10 ft^3/s, Dec. 3, 1924, result of freezeup and filling of Lake Andrews, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed is that of Mar. 19, 1899.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	781	355	809	258	415	328	378	493	277	318	1160	536
2	514	919	835	252	406	320	672	471	271	305	1040	427
3	226	706	809	233	396	301	2570	434	260	279	934	219
4	670	660	516	333	380	341	3700	457	257	268	618	479
5	721	630	246	406	360	332	1770	423	709	283	552	449
6	792	447	481	308	327	333	1180	406	422	285	412	434
7	1030	254	843	428	335	300	903	403	339	272	693	166
8	750	426	871	339	362	307	806	398	302	245	812	172
9	421	547	630	433	363	293	713	381	292	243	571	160
10	303	589	597	1420	310	294	591	386	274	239	752	169
11	370	392	583	801	350	1210	549	367	272	252	447	285
12	511	236	481	517	462	1040	556	378	273	465	296	791
13	834	223	544	531	483	686	614	345	273	404	203	587
14	647	225	684	612	913	561	564	328	275	246	221	693
15	896	377	680	576	737	488	537	315	307	394	649	514
16	594	827	863	364	561	486	520	315	285	227	536	306
17	246	829	940	462	484	536	484	324	485	226	497	263
18	240	818	613	889	463	468	471	316	417	228	584	268
19	513	329	406	1160	454	443	443	298	441	216	437	310
20	523	231	521	1200	426	840	434	322	377	207	396	251
21	359	224	1040	1300	399	661	492	349	382	196	569	772
22	463	374	985	826	397	571	438	351	412	194	576	340
23	361	534	1100	651	379	561	420	327	365	190	818	312
24	242	576	902	703	378	527	521	342	329	359	648	323
25	454	651	493	953	351	449	764	342	311	234	653	447
26	536	901	252	1150	334	423	666	385	303	222	623	437
27	786	451	408	974	359	423	572	311	359	366	392	339
28	604	340	415	693	379	423	635	302	242	682	234	319
29	405	542	513	452	330	395	556	300	418	770	527	370
30	413	809	404	511	---	392	508	265	388	434	590	356
31	234	---	279	462	---	355	---	192	---	858	579	---
TOTAL	16439	15422	19743	20197	12293	15087	24027	11026	10317	10107	18019	11494
MEAN	530	514	637	652	424	487	801	356	344	326	581	383
MAX	1030	919	1100	1420	913	1210	3700	493	709	858	1160	791
MIN	226	223	246	233	310	293	378	192	242	190	203	160

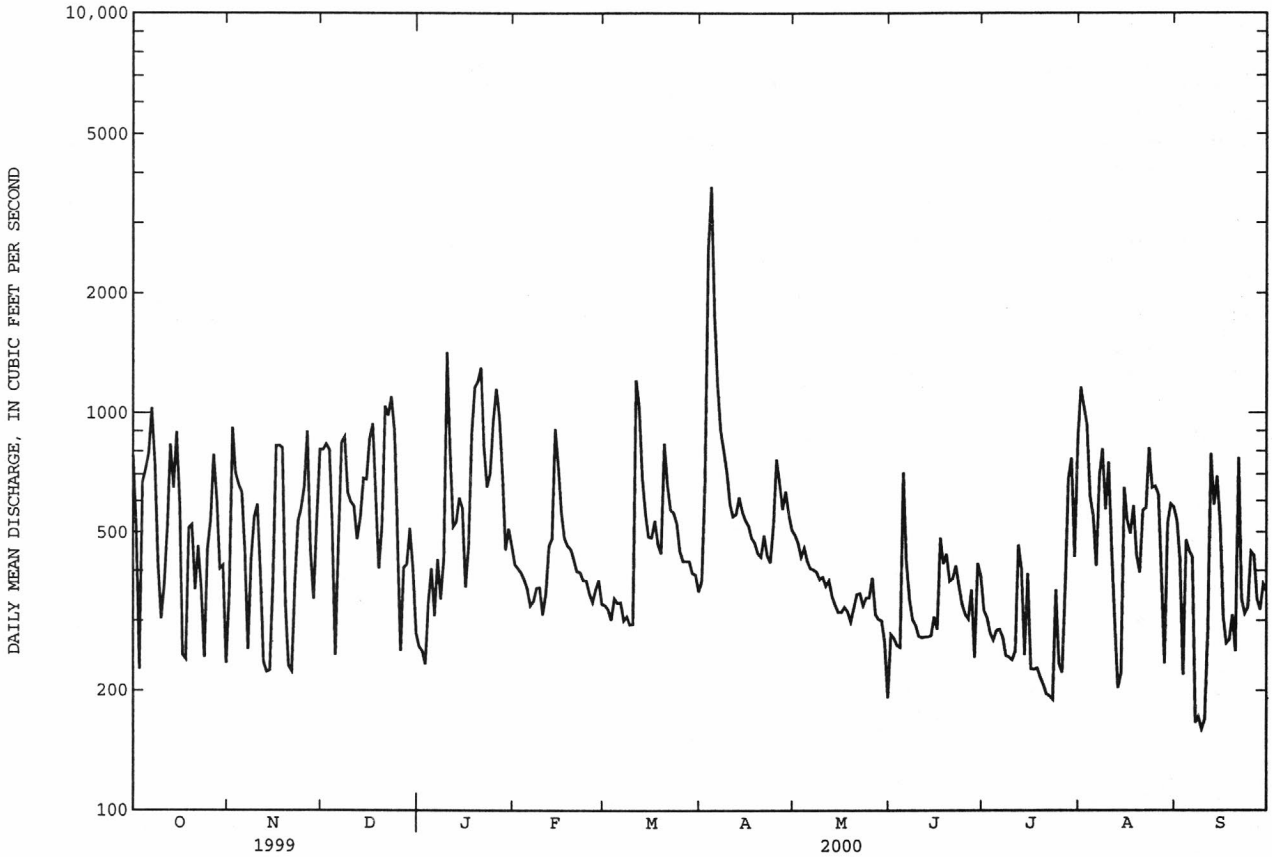
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000@, BY WATER YEAR (WY)

MEAN	527	590	941	1136	1218	1110	1045	933	900	886	869	715
MAX	1530	1654	2532	2462	3076	2784	2155	2033	1852	1517	1674	1628
(WY)	1990	1990	1993	1974	1990	1990	1953	1953	1989	1989	1994	1943
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000@	
ANNUAL TOTAL	260767		184171			
ANNUAL MEAN	714		503		904	
HIGHEST ANNUAL MEAN					1414	1990
LOWEST ANNUAL MEAN					397	1988
HIGHEST DAILY MEAN	4300	Jan 15	3700	Apr 4	11600	Feb 16 1990
LOWEST DAILY MEAN	201	Sep 26	160	Sep 9	62	Oct 19 1952
ANNUAL SEVEN-DAY MINIMUM	354	May 27	208	Jul 17	80	Oct 18 1952
INSTANTANEOUS PEAK FLOW			5950	Apr 4	18600	May 28 1973
INSTANTANEOUS PEAK STAGE			7.78	Apr 4	13.88	May 28 1973
INSTANTANEOUS LOW FLOW			115	Sep 30	106	Oct 2 1993
10 PERCENT EXCEEDS	1220		828		1630	
50 PERCENT EXCEEDS	599		426		797	
90 PERCENT EXCEEDS	339		250		224	

@ Regulated period only (1942-2000). See REMARKS.

03548500 HIWASSEE RIVER ABOVE MURPHY, NC--Continued



03550000 VALLEY RIVER AT TOMOTLA, NC

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, Hydrologic Unit 06020002, on right bank at site of former bridge on Secondary Road 1373 at Tomotla, 600 ft upstream from bridge on U.S. Highways 19 and 74, 0.2 mi upstream from Rogers Creek, 4.7 mi northeast of Murphy, and at mile 6.6.

DRAINAGE AREA.--104 mi^2.

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

REVISED RECORDS.--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M). WDR NC-91-1: 1979-1994(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft above sea level (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good. No estimated daily discharges. Maximum discharge for period of record, from flood profile by Tennessee Valley Authority, from rating curve extended above 5,800 ft^3/s on basis of slope-conveyance study. Minimum discharge for period of record occurred several days in Aug. and Sept. 1925. Minimum discharge for current water year also occurred Sept. 17-20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1898 reached a stage of 21.2 ft, from floodmark by Tennessee Valley Authority; discharge, about 20,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	50	79	69	229	159	166	238	112	106	178	48
2	59	158	76	69	204	154	334	226	108	97	196	63
3	56	87	72	69	189	148	1180	224	104	91	134	94
4	108	69	69	102	179	163	1880	396	108	86	111	63
5	78	63	69	91	166	148	950	268	233	91	116	50
6	62	60	102	81	155	141	618	236	182	85	92	47
7	58	59	81	78	150	136	473	216	135	82	82	45
8	55	59	76	76	146	133	416	202	120	75	76	44
9	58	57	72	313	143	131	356	191	112	72	75	43
10	112	56	113	912	142	129	317	183	105	69	95	45
11	100	55	107	440	143	379	290	170	101	71	76	41
12	75	54	94	271	261	455	272	162	96	111	66	40
13	70	54	118	216	254	318	326	156	92	125	61	38
14	65	53	245	175	616	262	290	147	92	89	58	38
15	60	52	169	155	411	231	271	140	132	82	55	36
16	57	50	134	159	319	242	258	136	116	68	54	33
17	57	50	115	152	267	271	244	134	168	63	52	32
18	54	50	104	307	243	240	231	132	171	60	51	33
19	53	50	97	261	260	227	219	126	165	59	52	33
20	78	50	92	355	230	388	208	135	141	71	51	32
21	71	52	92	276	211	321	212	169	167	59	88	153
22	61	50	97	238	198	282	198	173	174	58	62	65
23	57	50	88	271	188	254	190	148	145	58	56	60
24	54	50	85	258	178	232	252	157	123	88	54	83
25	53	158	81	235	171	216	407	141	111	72	52	261
26	53	381	78	206	164	202	345	134	108	86	49	164
27	53	172	77	182	189	213	292	129	104	66	60	90
28	52	118	75	171	180	203	316	146	110	61	59	71
29	52	98	73	209	164	183	278	138	151	72	50	61
30	50	86	72	299	---	189	255	123	125	78	46	54
31	50	---	70	261	---	177	---	117	---	88	46	---
TOTAL	1990	2451	2972	6957	6350	6927	12044	5393	3911	2439	2353	1960
MEAN	64.2	81.7	95.9	224	219	223	401	174	130	78.7	75.9	65.3
MAX	112	381	245	912	616	455	1880	396	233	125	196	261
MIN	50	50	69	69	142	129	166	117	92	58	46	32
CFSM	.62	.79	.92	2.16	2.11	2.15	3.86	1.67	1.25	.76	.73	.63
IN.	.71	.88	1.06	2.49	2.27	2.48	4.31	1.93	1.40	.87	.84	.70

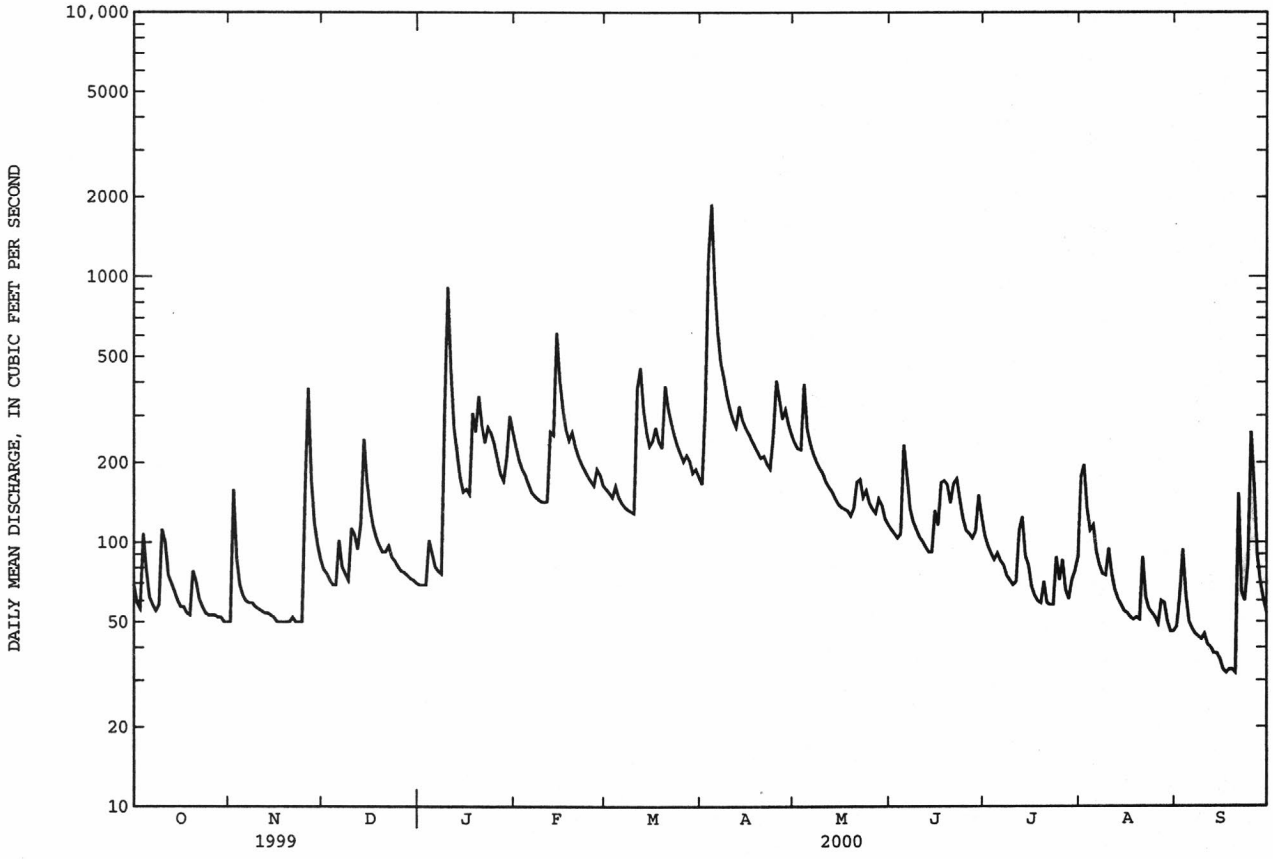
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2000[@], BY WATER YEAR (WY)

MEAN	98.9	158	290	399	456	462	370	261	192	168	136	101
MAX	442	685	1045	936	1022	1379	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1904 - 2000[@]	
ANNUAL TOTAL	81639		55747			
ANNUAL MEAN	224		152		257	
HIGHEST ANNUAL MEAN					379	1922
LOWEST ANNUAL MEAN					111	1988
HIGHEST DAILY MEAN	1570	Jun 29	1880	Apr 4	8190	Feb 16 1995
LOWEST DAILY MEAN	31	Sep 17	32	Sep 17	12	Aug 27 1925
ANNUAL SEVEN-DAY MINIMUM	34	Sep 14	34	Sep 14	13	Aug 24 1925
INSTANTANEOUS PEAK FLOW			2400	Apr 4	18000*	Nov 19 1906
INSTANTANEOUS PEAK STAGE			7.49	Apr 4	20.50	Nov 19 1906
INSTANTANEOUS LOW FLOW			32*	Sep 16	12*	Aug 27 1925
ANNUAL RUNOFF (CFSM)	2.15		1.46		2.47	
ANNUAL RUNOFF (INCHES)	29.20		19.94		33.53	
10 PERCENT EXCEEDS	447		271		502	
50 PERCENT EXCEEDS	168		111		177	
90 PERCENT EXCEEDS	50		52		59	

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



LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03460242 WATERVILLE LAKE

LOCATION.--Lat 35°41'41", long 83°03'02", Haywood County, Hydrologic Unit 06010206, at Waterville Dam on Pigeon River, 0.1 mi downstream from Cataloochee Creek, 5.5 mi southeast of Mount Sterling, and at river mile 38.0.

DRAINAGE AREA.--455 mi^2.

PERIOD OF RECORD.--October 1961 to current year. Prior to October 1979, published as Lake Walters.

GAGE.--Nonrecording gage read once daily. Datum of gage is sea level.

REMARKS.--Reservoir is formed by a single-arch, variable-radius, concrete dam with 14 taintor gates 10 ft high by 24 ft wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity is 12,800 ft^3/s-day at 2,258.60 ft (top of gate), of which 10,400 ft^3/s-day is controlled storage above 2,175 ft, normal minimum pool elevation. Reservoir is used for power. Prior to Jan. 1, 1971, records furnished by Carolina Power and Light Co. New capacity table was put into use Jan. 1, 1971.

COOPERATION.--Gage-height record furnished by Carolina Power and Light Co.; water-level storage records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 12,950 ft^3/s-day, Mar. 27, 1994; elevation, 2,259.20 ft. Minimum content observed: 1,030 ft^3/s-day, Sept. 16, 1980; elevation, 2,141.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 12,900 ft^3/s-day, Apr. 5; elevation, 2,258.90 ft. Minimum content observed: 9,760 ft^3/s-day, Jan. 28; elevation, 2,239.00 ft.

03514500 FONTANA LAKE

LOCATION.--Lat 35°27'07", long 83°48'18", Graham County, Hydrologic Unit 06010202, at Fontana Dam on Little Tennessee River, 9.6 mi upstream from Cheoah Dam, 5.7 mi upstream from Twenty Mile Creek, 9.0 mi north of Robbinsville, and at river mile 61.0.

DRAINAGE AREA.--1,571 mi^2.

PERIOD OF RECORD.--October 1944 to current year. Prior to November 1944, monthend content only, published in WSP 1306.

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

REMARKS.--Reservoir is formed by gravity, nonoverflow-type concrete dam. Spillway is equipped with four radial gates 35 ft high by 35 ft wide. Filling began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey) is 727,500 ft^3/s-day, at 1,710.0 ft (top of gate) of which 476,900 ft^3/s-day is controlled storage above 1,580.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 728,600 ft^3/s-day, May 28, 1973; elevation, 1,710.20 ft. Minimum content observed (after first filling): 78,300 ft^3/s-day, Jan. 29, 1955; elevation, 1,472.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 703,600 ft^3/s-day, June 8; elevation, 1,705.50 ft. Minimum content observed: 368,900 ft^3/s-day, Jan. 8; elevation, 1,624.19 ft.

03546500 CHATUGE LAKE

LOCATION.--Lat 35°01'01", long 83°47'28", Clay County, Hydrologic Unit 06020002, at Chatuge Dam on Hiwassee River, 2.0 mi upstream from Hyatt Mill Creek, 2.5 mi downstream from Georgia-North Carolina Stateline, 2.4 mi southeast of Hayesville, and at river mile 121.0.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--February 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a rolled, earthfill dam with side-channel spillway equipped with flashboards. Dam completed and filling began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey) is 121,200 ft^3/s-day, at 1,928.0 ft (top of flashboard), of which 61,700 ft^3/s-day is controlled storage above 1,905.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION--Records furnished by Tennessee Valley Authority. (See station 03548500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 124,200 ft^3/s-day, Apr. 20, 1943; elevation, 1,927.80 ft. Minimum content observed (after first filling): 9,400 ft^3/s-day, Sept. 5, 1947, and Jan. 27, 1956; elevation, 1,860.11 ft, Sept. 5, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 107,200 ft^3/s-day, June 30; elevation, 1,923.87 ft. Minimum content observed: 72,100 ft^3/s-day, Jan. 7; elevation, 1,911.02 ft.

03554500 HIWASSEE LAKE

LOCATION.--Lat 35°09'01", long 84°10'40", Cherokee County, Hydrologic Unit 06020002, at Hiwassee Dam on Hiwassee River, 3.9 mi upstream from Shoal Creek, 0.3 mi northwest of village of Hiwassee Dam, and at river mile 75.8.

DRAINAGE AREA.--968 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 0.63 ft below sea level.

REMARKS--Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft high by 32 ft wide. Slight filling began Apr. 13, 1939, during construction; systematic filling operation began Jan. 14, 1940; dam completed February 1940; water in reservoir and first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey) is 218,800 ft^3/s-day at 1,526.5 ft (top of gate), of which 154,300 ft^3/s-day is controlled storage above 1,450.0 ft, normal minimum pool elevation. Reservoir is used for navigation, floodcontrol, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 223,400 ft^3/s-day, May 28, 1973; elevation, 1,528.02 ft. Minimum content observed (after first filling): 35,800 ft^3/s-day, Jan. 28, 1948; elevation, 1,413.41 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 197,400 ft^3/s-day, June 25; elevation, 1,519.74 ft. Minimum content observed: 77,300 ft^3/s-day, Jan. 6; elevation, 1,460.96 ft.

OTHER RESERVOIRS

The following smaller 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 Pollees Creek near Skyland.

DRAINAGE AREA.--4.78 mi^2.

PERIOD OF RECORD.--Prior to November 1967 published as Asheville Steam-Electric Generating Plant Lake.

REMARKS.--Total capacity is 4,540 ft^3/s-day, of which 2,120 ft^3/s-day is controlled storage. Filling began Mar. 27, 1963, and lake reached spillway elevation, 2,160 ft, June 3, 1963. Most of initial storage and occasional, supplemental storage provided by pumped diversion from French Broad River. Lake is a cooling-water reservoir for Carolina Power and Light Co. plant.

03448959 BURNETT LAKE

LOCATION.--Lat 35°39'44", long 82°20'43", Buncombe County, Hydrologic Unit 06010105, on North Fork Swannanoa River near Black Mountain.

DRAINAGE AREA.--21.9 mi^2.

REMARKS.--Total capacity at crest of spillway is 11,600 ft^3/s-day, of which 8,900 ft^3/s-day is controlled storage. Filling began Jan. 28, 1954. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03450134 BEETREE RESERVOIR

LOCATION.--Lat 35°38'27", long 82°24'04", Buncombe County, Hydrologic Unit 06010105, on Beetree Creek near Swannanoa.

DRAINAGE AREA.-7.62 mi^2.

REMARKS.--Total capacity is 844 ft^3/s-day, of which 823 ft^3/s-day is controlled storage. Dam completed December 1926, and filling began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03455773 LAKE LOGAN

LOCATION.--Lat 35°25'15", long 82°55'30", Haywood County, Hydrologic Unit 06010106, on West Fork Pigeon River near Canton and at river mile 7.0.

DRAINAGE AREA.--33.3 mi^2.

REMARKS.--Total capacity is 1,040 ft^3/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330.)

03458319 LAKE JUNALUSKA

LOCATION.--Lat 35°31'38", long 82°57'48", Haywood County, Hydrologic Unit 06010106, on Richland Creek at Lake Junaluska and at river mile 2.4.

DRAINAGE AREA.--63.6 mi^2.

REMARKS.--Total surface area is about 195 acres. The lake reached spillway elevation in the spring of 1913.

03500466 SEQUOYAH LAKE

LOCATION.--Lat 35°04'02", long 83°13'31", Macon County, Hydrologic Unit 06010202, on Cullasaja River near Highlands, and at river mile 18.4.

DRAINAGE AREA.--14.4 mi^2.

REMARKS.--Total capacity is 233 ft^3/s-day (at crest of spillway), of which approximately 116 ft^3/s-day is usable. Filling began in 1926.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03504500 NANTAHALA LAKE

LOCATION.--Lat 35°11'56", long 83°39'17", Macon County, Hydrologic Unit 06010202, at Nantahala Dam on Nantahala River, 5.5 mi upstream from Whiteoak Creek, 4.2 mi southeast of Topton, and at river mile 22.8.

DRAINAGE AREA.--91.0 mi^2.

PERIOD OF RECORD.--January 1942 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by rockfill dam with side-channel, gate-controlled spillway supplemented by fuse-plug dam. Dam completed and filling began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey) is 69,200 ft^3/s-day at 2,890.0 ft (top of gates), of which 63,500 ft^3/s-day is controlled storage above 2,758.84 ft, normal minimum pool elevations. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE

These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project.

EAST FORK DAM

LOCATION.--Lat 35°12'48", long 83°00'08", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--24.9 mi^2.

REMARKS.--Total capacity of East Fork Lake is 671 ft^3/s-day, of which 625 ft^3/s-day is controlled storage. Filling began April 18, 1955.

WOLF CREEK DAM

LOCATION.--Lat 35°13'18", long 83°00'00", on Wolf Creek near Tuckasegee.

DRAINAGE AREA.--15.2 mi^2.

REMARKS.--Total capacity of Wolf Creek Lake is 5,070 ft^3/s-day, of which 3,850 ft^3/s-day is controlled storage. Filling began Mar. 22, 1955.

03507216 BEAR CREEK LAKE

LOCATION.--Lat 35°14'29", long 83°04'22", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--74.8 mi^2.

REMARKS.--Total capacity is 17,500 ft^3/s-day, of which 2,290 ft^3/s-day is controlled storage. Filling began Oct. 9, 1953.

03507289 CEDAR CLIFF LAKE

LOCATION.--Lat 35°15'12", long 83°05'58", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee and at river mile 51.9.

DRAINAGE AREA.--80.3 mi^2.

REMARKS.--Total capacity is 3,200 ft^3/s-day, of which 350 ft^3/s-day is controlled storage. Filling began Apr. 26, 1952.

03507500 THORPE RESERVOIR

LOCATION.--Lat 35°11'46", long 83°09'09", Jackson County, Hydrologic Unit 06010203, at Thorpe Dam on West Fork Tuckasegee River, 3.0 mi upstream from Shoal Creek, and 2.3 mi northwest of Glenville, and at river mile 9.7.

DRAINAGE AREA.--36.7 mi^2.

PERIOD OF RECORD.--February 1941 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir.

REMARKS.--Reservoir is formed by earth and rock dam and six 40 ft fuse-plug dams with side-channel spillway equipped with two taintor gates 12 ft high by 25 ft wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey) is 35,500 ft^3/s-day, at 3,100.0 ft (top of gate), of which 33,700 ft^3/s-day is controlled storage above 3,023.25 ft, normal minimum pool elevation. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03515152 CHEOAH LAKE

LOCATION.--Lat 35°26'54", long 83°56'11", Graham County, Hydrologic Unit 06010202, on Little Tennessee River at Cheoah and at river mile 51.4.

DRAINAGE AREA.--1,608 mi^2.

REMARKS.--Total capacity is 17,700 ft^3/s-day, of which 920 ft^3/s-day is controlled storage. Filling began Dec. 8, 1918.

03516500 SANTEETLAH LAKE

LOCATION.--Lat 35°22'38", long 83°52'33", Graham County, Hydrologic Unit 06010204, at Santeetlah Dam on Cheoah River, 1.0 mi downstream from Santeetlah Creek, 5.5 mi northwest of Robbinsville, and at river mile 9.3.

DRAINAGE AREA.--176 mi^2.

PERIOD OF RECORD.--December 1927 to September 1995. Prior to October 1946 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft high by 25 ft wide. Dam completed and filling began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971) is 78,800 ft^3/s-day (top of gate) at elevation 1,817.0 ft, of which 66,600 ft^3/s-day is controlled storage above 1,740.08 ft, normal minimum pool elevation. Reservoir is used for power.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03555500 APPALACHIA LAKE

LOCATION.--Lat 35°10'04", long 84°17'49", Cherokee County, Hydrologic Unit 06020002, at Appalachia Dam on Hiwassee River, 9.8 mi downstream from Hiwassee Dam, 0.1 mi upstream from North Carolina-Tennessee State line, 1.5 mi northeast of Farner, Tennessee, and at river mile 66.0.

DRAINAGE AREA.--1,018 mi^2.

PERIOD OF RECORD.--February 1943 to September 1995.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 10 radial gates. Dam completed and filling began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey) is 29,100 ft^3/s-day at 1,280.0 ft (top of gate), of which 4,400 ft^3/s-day is controlled storage above 1,272.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Gage height (feet)	Contents (cfs-days)	Change in contents (cfs-days)
		03460242 Waterville Lake			03524500 Fontana Lake	
Sept. 30	2,249.70	11,410	---	1,662.18	504.300	---
Oct. 31	2,248.80	11,270	-140	1,648.94	453,100	-51,200
Nov. 30	2,249.80	11,430	+160	1,635.20	404,500	-48,600
Dec. 31	2,247.40	11,050	-380	1,624.83	370,900	-33,600
CAL YR 1999		---	-920		---	-2,700
Jan. 31	2,245.60	10,770	-280	1,625.85	374,100	+3,200
Feb. 29	2,253.80	12,060	+1,290	1,644.22	435,900	+61,800
Mar. 31	2,254.30	12,150	+90	1,665.46	517,600	+81,700
Apr. 30	2,253.80	12,060	-90	1,691.96	635,200	+117,600
May 31	2,256.90	12,570	+510	1,704.49	698,300	+63,100
June 30	2,255.90	12,400	-170	1,702.62	688,500	-9,800
July 31	2,246.20	10,870	-1,530	1,693.98	645,000	-43,500
Aug. 31	2,239.80	9,880	-990	1,663.71	510,500	-134,500
Sept. 30	2,244.10	10,540	+660	1,633.46	398,700	-111,800
WTR YR 2000		---	-870		---	-105,600

Date	Gage height (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
		03546500 Chatuge Lake			03554500 Hiwasee Lake	
Sep. 30	1,916.42	85,400	---	1,495.15	135,200	---
Oct. 31	1,914.48	80,400	-5,000	1,482.16	110,100	-25,100
Nov. 30	1,913.64	78,300	-2,100	1,469.21	88,600	-21,500
Dec. 31	1,911.06	72,200	-6,100	1,462.66	79,500	-9,100
CAL YR 1999		---	-1,000		---	+3,000
Jan. 31	1,911.56	73,300	+1,100	1,465.18	82,800	+3,300
Feb. 29	1,913.66	78,400	+5,100	1,475.98	99,500	+16,700
Mar. 31	1,916.72	86,200	+7,800	1,491.07	126,700	+27,200
Apr. 30	1,922.13	101,700	+15,500	1,511.98	176,000	+49,300
May 31	1,923.32	105,400	+3,700	1,518.06	192,500	+16,500
June 30	1,923.87	107,200	+1,800	1,519.10	195,500	+3,000
July 31	1,922.89	104,100	-3,100	1,515.54	185,400	-10,100
Aug. 31	1,919.32	93,400	-10,700	1,505.62	159,800	-25,600
Sept. 30	1,917.28	87,700	-5,700	1,497.62	140,700	-19,100
WTR YR 2000		---	+2,300		---	+5,500

MEASUREMENTS AT MISCELLANEOUS SITES

These measurements and others collected for special reasons are called measurements at miscellaneous sites. Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000, IN ATLANTIC SLOPE BASINS						
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, 1986-99	10-20-99 1-2-00 5-23-00 8-2-00	12.4 14.0 11.4 5.40
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.	13.0[a]	1970-73, 1976-77, 1996-99	10-5-99 2-4-00 2-14-00 9-6-00	8.28 15.5 49.7 4.92
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, 1991-99	10-19-99 1-3-00 5-23-00 8-2-00	33.2 34.1 39.9 74.1
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, 1976-99	2-3-00 4-27-00 7-17-00 9-6-00	308 248 74.8 230
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, 1997-99	2-4-00 4-27-00 7-17-00 9-6-00	63.8 177 1.80 10.7
02096879 Haw River	Cape Fear River	Lat 35°53'43", long 79°15'31", Alamance County, Hydrologic Unit 03030002, at bridge on Secondary Road 1005, 0.7 mi upstream from Cane Creek, and 5.8 mi north of Terrells.	1082	1974-75, 1979-86, 1989-91, 1993, 1996-99	2-3-00 4-28-00 7-17-00 9-6-00	1760 1420 206 1160
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, 1980-99	10-25-99 2-14-00 5-23-00 7-21-00	33.0 140 56.9 11.5
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, 1978-99	2-15-00 5-23-00	31.1 26.5

[a] Approximately.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		CAPE FEAR RIVER BASIN--Continued				
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, 1985-99	2-23-00 4-21-00 5-24-00 7-21-00	129 116 32.8 5.10
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, 1985-99	10-4-99 1-11-00 5-12-00 8-18-00	1350 534 52.2 48.5
02102897 Lower Little River	Cape Fear River	Lat 35°12'13", long 79°12'59", Moore County, Hydrologic Unit 030300004, at bridge on Secondary Road 2023, 0.5 mi above James Creek, 1.0 mi southwest of Lobelia.	110	1997-99	10-5-99 2-17-00 8-2-00 9-15-00	367 424 125 34.9
02103000 Little River	Cape Fear River	Lat 35°11'38", long 78°59'14", Cumberland County, Hydrologic Unit 03030004, at bridge on State Highway 87 at Manchester, and 0.3 mi upstream from Tank Creek.	347	1939-50[†], 1978, 1980-99	10-2-99 1-11-00 5-12-00 8-18-00	1010 1150 134 80.3
02104279 Rockfish Creek	Cape Fear River	Lat 34°58'10", long 79°06'40", Hoke County, Hydrologic Unit 03030004, at bridge on Secondary Road 1432, 0.2 mi downstream of Puppy Creek, and 1.2 mi northeast or Arabia.	150[a]	1973-74, 1978, 1980-91, 1997-99	2-16-00 5-25-00 8-1-00 9-26-00	480 140 144 532
		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, 1996-99	1-19-00 5-4-00 6-12-00 8-15-00	127 119 74.2 71.6
02120521 Third Creek	South Yadkin River	Lat 35°46'13", long 80°37'34", Rowan County, Hydrologic Unit 03040102, at bridge on Secondary Road 1970, and 2.2 mi west of Woodleaf.	96.6	1985-99	10-12-99 5-19-00 7-19-00	106 42.2 19.1
0212147355 Rich Fork Creek	Abbotts Creek	Lat 35°55'36", long 80°07'31", Davidson County, Hydrologic Unit 03040103, at bridge on Secondary Road 1800, 1.4 mi downstream of High Point sewage disposal plant, and 3.9 mi northwest of Thomasville.	26.6	1970-75, 1981-84, 1986-90, 1993-99	10-14-99 2-7-00 5-4-00	18.3 28.4 13.1

[†] Operated as a continuous-record gaging station.
[a] Approximately.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		PEE DEE RIVER BASIN--Continued				
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†, 1981-99	12-3-99 5-4-00 7-20-00	66.7 165 17.9
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	1970-99	11-24-99 2-16-00 5-18-00	6.77 16.3 6.84
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, 1986-99	4-12-00 5-22-00	17.9 33.5
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, 1973-99	11-18-99 5-22-00	124 252
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, 1973-99	11-19-99	26.5
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, 1986-99	11-18-99 5-22-00	11.9 22.4
02129341 Hitchcock Creek	Pee Dee River	Lat 34°55'05", long 79°47'50", Richmond County, Hydrologic Unit 03040201, downstream of dam at Cordova, and 1.2 mi upstream from mouth.	134	1970-71, 1974, 1979-84, 1986-99	10-14-99	301
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	1985-99	10-14-99 5-5-00	67.2 36.3

† Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		PEE DEE RIVER BASIN--Continued				
0212955844 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, 1986-99	10-14-99 5-5-00	9.42 8.94
02132269 Leith Creek	Little Pee Dee River	Lat 34°44'37", long 79°25'13", Scotland County, Hydrologic Unit 03040204 at bridge on Secondary Road 1609, 4 mi west of Maxton, and 5.4 mi upstream from mouth.	21.8	1973-75, 1979-92, 1995-99	10-5-99 2-16-00 8-1-00	24.7 57.9 0.21
		SANTEE RIVER BASIN				
02141245 Lower Creek	Catawba River	Lat 35°49'31", long 81°38'10", Burke County, Hydrologic Unit 03050102, 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,[†] 1995-99	3-7-00 5-2-00 8-23-00 7-28-99	49.7 67.5 27.1 43.3
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	1986-99	11-15-99 5-12-00	34.8 58.2
02143027 Henry Fork	South Fork Catabwa River	Lat 35°39'27", long 81°18'33", Catawba County, Hydrologic Unit 03050102, at bridge on Secondary Road 1143, 1.7 mi upstream from mouth and 2.5 mi northwest of Startown.	110	1970-71, 1973-74, 1978-80, 1996-99	5-12-00 8-28-00	94.9 34.7
02143069 South Fork Catawba River	Catawba River	Lat 35°37'58", long 81°18'20", Catawba County, 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, 1997-99	5-12-00	180
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, 1978-99	11-15-99 2-25-00 5-23-00	36.1 63.2 56.9

[b] Baseflow.
[†] Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		SANTEE RIVER BASIN--Continued				
02145640 Crowders Creek	Catawba River	Lat 35°08'15", long 81°08'15", York County, South Carolina, Hydrologic Unit 03050101, at bridge on Ridge Road, 3.4 mi upstream from Beaver Dam Creek, and 3.2 mi east-southeast of Bowling Green, South Carolina.	89	1970-77, 1979-91, 1996-99	11-30-99 2-24-00 5-22-00	35.7 61.6 39.5
0214676115 McAlpine Creek	Sugar Creek	Lat 35°03'12", long 80°53'06", Lancaster County, South Carolina, Hydrologic Unit 03050103, at bridge on Secondary Road 2964, 0.5 mi north of Camp Cox, South Carolina, 0.6 mi above Sugar Creek, and 1.0 mi below North Carolina-South Carolina state line.	95.4	1996-99	11-16-99 11-19-99	60.9 72.9
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†, 1982-99	11-30-99 2-24-00 5-17-00	163 235 152
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, 1980-99	9-28-00	80.4
02153456 Buffalo Creek	Broad River	Lat 35°10'20", long 81°31'02", Cleveland County, Hydrologic Unit 03050105, at bridge on State Highway 198, 0.1 mi upstream from North Carolina-South Carolina State line, and 4 mi west of Grover.	161	1968-77, 1979-99	9-28-00	89.6
		SAVANNAH RIVER BASIN				
02184242 Horse-pasture River	Toxaway River	Lat 35°05'33", long 82°58'04", Transylvania County, Hydrologic Unit 03060101, at bridge on State Highway 281, and 4 mi southwest of Lake Toxaway.	24.1	1985-99	12-3-99	80.7
		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, 1974-99	2-10-00 4-27-00 6-14-00 8-22-00	47.5 107 27.5 28.6

† Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		KANAWHA RIVER BASIN--Continued				
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, 1981-99	2-10-00 5-2-00 6-14-00 8-22-00	307 618 163 174
		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, 1992-99	12-7-99 5-8-00 9-13-00	88.0 116 38.9
0344776625 French Broad River	Tennessee River	Lat 35°27'11", long 82°33'00", Buncombe County, Hydrologic Unit 06010105, at Secondary Road 3495 and 2.1 mi southwest of Arden.	652	1993-99	11-22-99 3-21-00 5-8-00 9-13-00	547 6340 1320 451
03457124 Pigeon River	French Broad River	Lat 35°32'05", long 82°54'41", Haywood County, Hydrologic Unit 06010106, at bridge on Secondary Road 1818 at Clyde, and 0.2 mi downstream of Chambers Branch.	162	1969-78, 1980-99	2-9-00 8-31-00 9-5-00	165 62.8 86.2
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	1981-99	2-9-00 8-31-00 9-5-00	48.8 26.6 28.9
03461976 North Toe River	Nolichucky River	Lat 35°58'51", long 82°00'59", Avery County, Hydrologic Unit 06010108, at bridge on U.S. Highway19E, 0.1 mi downstream of Jones Creek, 0.7 mi north of Ingalls, and at mile 50.9.	74.1	1969-71, 1973-74, 1976-99	2-16-00 5-11-00 8-9-00	305 162 104
03463021 North Toe River	Nolichucky River	Lat 35°55'46", long 82°06'57", Mitchell County, Hydrologic Unit 06010108, at bridge on Secondary Road 1162 at Penland, 0.4 mi downstream of Bear Creek, and at mile 27.6	145	1969-70, 1972-75, 1978, 1982-99	2-16-00 5-11-00 8-9-00	511 284 140
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, 1980-99	3-13-00 5-11-00	287 257

† Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		TENNESSEE RIVER BASIN--Continued				
03478819 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, 1986-99	3-13-00 4-27-00 6-14-00 8-22-00	71.1 88.4 18.5 18.1
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	12-3-99	42.2
03502000 Little Tennessee River	Tennessee River	Lat 35°14'01", long 83°23'35", 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, 1982-99	9-7-00	150
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, 1973-99	2-17-00 5-11-00	140 85.6
0351751500 Cheoah River	Little Tennessee River	Lat 35°26'51", long 83°56'22", Graham County, Hydrologic Unit 06010204, 350 ft upstream of mouth and 0.2 mi north-northwest of Tapoco.	215		8-25-99 8-31-99 3-13-00 7-12-00 7-13-00	23.4 22.0 138 1040 1220
03548243 Brasstown Creek	Hiwassee River	Lat 34°59'13", long 83°53'40", Clay County, Hydrologic Unit 06020002, at bridge on Secondary Road 1111.	37.3		6-29-00	56.0

† Operated as a continuous-record gaging station.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

The following table includes data on major ion, nutrient, and pesticide concentrations from samples collected at 73 sites in North Carolina between February and May 2000. These data were collected as part of a larger study, funded cooperatively by U.S. Environmental Protection Agency and U.S. Geological Survey, to examine the baseflow concentrations of pesticides and nutrients in first-order streams in the Mid-Atlantic Coastal Plain. Additional data associated with this study can be found in Volume 1A.

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
350905079002301 MCFAYDEN POND TRIBUTARY AT FORT BRAGG MIL RES, N(LAT 35 09 05N LONG 079 00 23W)											
MAR 2000											
14...	1600	.34	9.1	5.2	89	19.5	14.0	6.31	1.24	2.2	5.5
351309079014601 LITTLE RIVER TRIBUTARY AT FORT BRAGG MIL RES, NC (LAT 35 13 09N LONG 079 01 46W)											
MAR 2000											
14...	1230	.47	9.1	4.2	33	21.5	11.5	1.09	.75	.9	1.7
351405079201001 MILL CREEK NEAR LAKEVIEW, NC (LAT 35 14 05N LONG 079 20 10W)											
MAY 2000											
03...	1300	14	8.0	5.9	31	26.5	19.5	1.38	.79	1.2	2.4
351449079181801 LITTLE RIVER TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 14 49N LONG 079 18 18W)											
MAR 2000											
08...	1400	.11	11.4	5.5	6	31.0	18.0	2.80	1.60	2.0	4.1
351724078454201 STEWARTS CREEK TRIBUTARY NEAR LILLINGTON, NC (LAT 35 17 24N LONG 078 45 41W)											
MAY 2000											
04...	1100	.00	1.4	5.9	60	29.5	16.5	3.23	1.23	1.7	4.2
351930079051701 UNNAMED TRIBUTARY TO GUM SWAMP NEAR PINEVIEW, NC (LAT 35 19 30N LONG 079 05 17W)											
MAR 2000											
02...	1230	.32	8.7	5.1	39	19.5	14.0	2.11	.86	1.2	2.7
352055078531701 BEAR BRANCH NEAR LILLINGTON, NC (LAT 35 20 55N LONG 078 53 17W)											
MAY 2000											
04...	0800	.57	8.7	6.9	39	20.5	14.5	1.52	1.16	1.3	3.2
352149079174901 UNNAMED TRIBUTARY TO HERDS CREEK NEAR CARTHAGE, N(LAT 35 21 49N LONG 079 17 49W)											
FEB 2000											
15...	1130	1.1	9.6	5.1	35	11.0	8.5	1.24	.83	1.4	3.0
342613078230301 UNNAMED TRIB TO PLUMMERS RUN NEAR WHITEVILLE, NC (LAT 34 26 12N LONG 078 23 02W)											
MAR 2000											
15...	1430	.05	7.6	5.7	36	25.5	18.0	.74	.44	.4	2.9
343618078391801 BROWNS CREEK TRIBUTARY AT ELIZABETHTOWN, NC (LAT 34 36 18N LONG 078 39 17W)											
FEB 2000											
18...	1430	2.4	9.1	4.8	76	12.0	10.5	3.71	2.39	1.7	3.7

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
350905079002301 MCFAYDEN POND TRIBUTARY AT FORT BRAGG MIL RES, N(LAT 35 09 05N LONG 079 00 23W)											
MAR 2000											
14...	5	6	9.4	<.1	6.2	10.0	E.10	.15	<.020	1.57	<.010
351309079014601 LITTLE RIVER TRIBUTARY AT FORT BRAGG MIL RES, NC (LAT 35 13 09N LONG 079 01 46W)											
MAR 2000											
14...	--	--	2.7	<.1	3.3	6.4	.24	.28	<.020	<.050	<.010
351405079201001 MILL CREEK NEAR LAKEVIEW, NC (LAT 35 14 05N LONG 079 20 10W)											
MAY 2000											
03...	7	8	5.1	<.1	2.9	2.0	.16	.24	.022	.220	<.010
351449079181801 LITTLE RIVER TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 14 49N LONG 079 18 18W)											
MAR 2000											
08...	8	10	6.8	<.1	1.5	6.3	.43	.66	<.020	<.050	<.010
351724078454201 STEWARTS CREEK TRIBUTARY NEAR LILLINGTON, NC (LAT 35 17 24N LONG 078 45 41W)											
MAY 2000											
04...	5	6	7.3	<.1	7.1	.5	1.2	1.5	.315	1.57	<.010
351930079051701 UNNAMED TRIBUTARY TO GUM SWAMP NEAR PINEVIEW, NC (LAT 35 19 30N LONG 079 05 17W)											
MAR 2000											
02...	2	2	5.1	<.1	.9	5.7	.26	.48	<.020	<.050	<.010
352055078531701 BEAR BRANCH NEAR LILLINGTON, NC (LAT 35 20 55N LONG 078 53 17W)											
MAY 2000											
04...	7	9	6.5	<.1	5.8	1.4	.37	.43	.052	.353	<.010
352149079174901 UNNAMED TRIBUTARY TO HERDS CREEK NEAR CARTHAGE, N(LAT 35 21 49N LONG 079 17 49W)											
FEB 2000											
15...	2	2	3.6	<.1	6.1	4.6	.14	.24	<.020	.355	<.010
342613078230301 UNNAMED TRIB TO PLUMMERS RUN NEAR WHITEVILLE, NC (LAT 34 26 12N LONG 078 23 02W)											
MAR 2000											
15...	2	3	5.7	<.1	4.5	2.6	.14	.62	.025	<.050	<.010
343618078391801 BROWNS CREEK TRIBUTARY AT ELIZABETHTOWN, NC (LAT 34 36 18N LONG 078 39 17W)											
FEB 2000											
18...	2	3	9.9	<.1	4.4	8.9	.38	.44	.119	1.18	<.010

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
350905079002301 MCFAYDEN POND TRIBUTARY AT FORT BRAGG MIL RES, N(LAT 35 09 05N LONG 079 00 23W)											
MAR 2000											
14...	.028	<.010	.145	57	80	42	<.003	<.002	<.002	<.002	E.003
351309079014601 LITTLE RIVER TRIBUTARY AT FORT BRAGG MIL RES, NC (LAT 35 13 09N LONG 079 01 46W)											
MAR 2000											
14...	E.003	<.010	E.007	34	370	9	<.003	<.002	<.002	<.002	<.005
351405079201001 MILL CREEK NEAR LAKEVIEW, NC (LAT 35 14 05N LONG 079 20 10W)											
MAY 2000											
03...	.009	<.010	.021	31	340	33	<.003	<.002	<.002	<.002	.005
351449079181801 LITTLE RIVER TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 14 49N LONG 079 18 18W)											
MAR 2000											
08...	.038	.022	.087	49	580	29	<.003	<.002	<.002	<.002	<.001
351724078454201 STEWARTS CREEK TRIBUTARY NEAR LILLINGTON, NC (LAT 35 17 24N LONG 078 45 41W)											
MAY 2000											
04...	.012	<.010	.041	83	1350	162	<.003	<.002	<.002	<.002	.007
351930079051701 UNNAMED TRIBUTARY TO GUM SWAMP NEAR PINEVIEW, NC (LAT 35 19 30N LONG 079 05 17W)											
MAR 2000											
02...	.038	<.010	.017	35	270	31	<.003	<.002	<.002	<.002	<.001
352055078531701 BEAR BRANCH NEAR LILLINGTON, NC (LAT 35 20 55N LONG 078 53 17W)											
MAY 2000											
04...	.011	<.010	.015	51	600	48	<.003	<.002	<.002	<.002	<.001
352149079174901 UNNAMED TRIBUTARY TO HERDS CREEK NEAR CARTHAGE, N(LAT 35 21 49N LONG 079 17 49W)											
FEB 2000											
15...	<.006	<.010	.012	38	210	23	<.003	<.002	<.002	<.002	<.001
342613078230301 UNNAMED TRIB TO PLUMMERS RUN NEAR WHITEVILLE, NC (LAT 34 26 12N LONG 078 23 02W)											
MAR 2000											
15...	E.005	<.010	.017	26	690	15	<.003	<.002	<.002	<.002	<.001
343618078391801 BROWNS CREEK TRIBUTARY AT ELIZABETHTOWN, NC (LAT 34 36 18N LONG 078 39 17W)											
FEB 2000											
18...	.010	<.010	.043	52	400	23	<.003	<.002	<.002	<.002	<.001

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
350905079002301 MCFAYDEN POND TRIBUTARY AT FORT BRAGG MIL RES, N(LAT 35 09 05N LONG 079 00 23W)											
MAR 2000											
14...	E.001	<.002	<.003	<.015	<.004	<.004	<.002	<.002	<.002	<.001	<.017
351309079014601 LITTLE RIVER TRIBUTARY AT FORT BRAGG MIL RES, NC (LAT 35 13 09N LONG 079 01 46W)											
MAR 2000											
14...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
351405079201001 MILL CREEK NEAR LAKEVIEW, NC (LAT 35 14 05N LONG 079 20 10W)											
MAY 2000											
03...	<.002	<.002	<.005	<.003	<.004	<.004	<.002	E.003	<.002	<.001	<.017
351449079181801 LITTLE RIVER TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 14 49N LONG 079 18 18W)											
MAR 2000											
08...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
351724078454201 STEWARTS CREEK TRIBUTARY NEAR LILLINGTON, NC (LAT 35 17 24N LONG 078 45 41W)											
MAY 2000											
04...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.007	<.002	<.001	<.017
351930079051701 UNNAMED TRIBUTARY TO GUM SWAMP NEAR PINEVIEW, NC (LAT 35 19 30N LONG 079 05 17W)											
MAR 2000											
02...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
352055078531701 BEAR BRANCH NEAR LILLINGTON, NC (LAT 35 20 55N LONG 078 53 17W)											
MAY 2000											
04...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
352149079174901 UNNAMED TRIBUTARY TO HERDS CREEK NEAR CARTHAGE, N(LAT 35 21 49N LONG 079 17 49W)											
FEB 2000											
15...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
342613078230301 UNNAMED TRIB TO PLUMMERS RUN NEAR WHITEVILLE, NC (LAT 34 26 12N LONG 078 23 02W)											
MAR 2000											
15...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
343618078391801 BROWNS CREEK TRIBUTARY AT ELIZABETHTOWN, NC (LAT 34 36 18N LONG 078 39 17W)											
FEB 2000											
18...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
350905079002301 MCFAYDEN POND TRIBUTARY AT FORT BRAGG MIL RES, N(LAT 35 09 05N LONG 079 00 23W)											
MAR 2000											
14...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
351309079014601 LITTLE RIVER TRIBUTARY AT FORT BRAGG MIL RES, NC (LAT 35 13 09N LONG 079 01 46W)											
MAR 2000											
14...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
351405079201001 MILL CREEK NEAR LAKEVIEW, NC (LAT 35 14 05N LONG 079 20 10W)											
MAY 2000											
03...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	E.015	<.006	.005	<.004
351449079181801 LITTLE RIVER TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 14 49N LONG 079 18 18W)											
MAR 2000											
08...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
351724078454201 STEWARTS CREEK TRIBUTARY NEAR LILLINGTON, NC (LAT 35 17 24N LONG 078 45 41W)											
MAY 2000											
04...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
351930079051701 UNNAMED TRIBUTARY TO GUM SWAMP NEAR PINEVIEW, NC (LAT 35 19 30N LONG 079 05 17W)											
MAR 2000											
02...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
352055078531701 BEAR BRANCH NEAR LILLINGTON, NC (LAT 35 20 55N LONG 078 53 17W)											
MAY 2000											
04...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.007	<.004
352149079174901 UNNAMED TRIBUTARY TO HERDS CREEK NEAR CARTHAGE, N(LAT 35 21 49N LONG 079 17 49W)											
FEB 2000											
15...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
342613078230301 UNNAMED TRIB TO PLUMMERS RUN NEAR WHITEVILLE, NC (LAT 34 26 12N LONG 078 23 02W)											
MAR 2000											
15...	<.002	<.004	<.003	<.003	<.004	<.002	<.013	<.001	<.006	<.002	<.004
343618078391801 BROWNS CREEK TRIBUTARY AT ELIZABETHTOWN, NC (LAT 34 36 18N LONG 078 39 17W)											
FEB 2000											
18...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.014	<.004

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
350905079002301 MCFAYDEN POND TRIBUTARY AT FORT BRAGG MIL RES, N(LAT 35 09 05N LONG 079 00 23W)										
MAR 2000										
14...	<.004	<.003	<.006	<.004	<.004	.010	<.005	<.002	<.018	<.003
351309079014601 LITTLE RIVER TRIBUTARY AT FORT BRAGG MIL RES, NC (LAT 35 13 09N LONG 079 01 46W)										
MAR 2000										
14...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351405079201001 MILL CREEK NEAR LAKEVIEW, NC (LAT 35 14 05N LONG 079 20 10W)										
MAY 2000										
03...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.008	.007
351449079181801 LITTLE RIVER TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 14 49N LONG 079 18 18W)										
MAR 2000										
08...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351724078454201 STEWARTS CREEK TRIBUTARY NEAR LILLINGTON, NC (LAT 35 17 24N LONG 078 45 41W)										
MAY 2000										
04...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351930079051701 UNNAMED TRIBUTARY TO GUM SWAMP NEAR PINEVIEW, NC (LAT 35 19 30N LONG 079 05 17W)										
MAR 2000										
02...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
352055078531701 BEAR BRANCH NEAR LILLINGTON, NC (LAT 35 20 55N LONG 078 53 17W)										
MAY 2000										
04...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
352149079174901 UNNAMED TRIBUTARY TO HERDS CREEK NEAR CARTHAGE, N(LAT 35 21 49N LONG 079 17 49W)										
FEB 2000										
15...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
342613078230301 UNNAMED TRIB TO PLUMMERS RUN NEAR WHITEVILLE, NC (LAT 34 26 12N LONG 078 23 02W)										
MAR 2000										
15...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
343618078391801 BROWNS CREEK TRIBUTARY AT ELIZABETHTOWN, NC (LAT 34 36 18N LONG 078 39 17W)										
FEB 2000										
18...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
350905079002301 MCFAYDEN POND TRIBUTARY AT FORT BRAGG MIL RES, N(LAT 35 09 05N LONG 079 00 23W)										
MAR 2000										
14...	<.007	<.004	<.013	.009	--	<.007	<.013	<.002	<.001	E.001
351309079014601 LITTLE RIVER TRIBUTARY AT FORT BRAGG MIL RES, NC (LAT 35 13 09N LONG 079 01 46W)										
MAR 2000										
14...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351405079201001 MILL CREEK NEAR LAKEVIEW, NC (LAT 35 14 05N LONG 079 20 10W)										
MAY 2000										
03...	<.007	<.004	<.013	.006	<.010	<.007	<.013	<.002	<.001	<.002
351449079181801 LITTLE RIVER TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 14 49N LONG 079 18 18W)										
MAR 2000										
08...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351724078454201 STEWARTS CREEK TRIBUTARY NEAR LILLINGTON, NC (LAT 35 17 24N LONG 078 45 41W)										
MAY 2000										
04...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351930079051701 UNNAMED TRIBUTARY TO GUM SWAMP NEAR PINEVIEW, NC (LAT 35 19 30N LONG 079 05 17W)										
MAR 2000										
02...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
352055078531701 BEAR BRANCH NEAR LILLINGTON, NC (LAT 35 20 55N LONG 078 53 17W)										
MAY 2000										
04...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
352149079174901 UNNAMED TRIBUTARY TO HERDS CREEK NEAR CARTHAGE, N(LAT 35 21 49N LONG 079 17 49W)										
FEB 2000										
15...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
342613078230301 UNNAMED TRIB TO PLUMMERS RUN NEAR WHITEVILLE, NC (LAT 34 26 12N LONG 078 23 02W)										
MAR 2000										
15...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
343618078391801 BROWNS CREEK TRIBUTARY AT ELIZABETHTOWN, NC (LAT 34 36 18N LONG 078 39 17W)										
FEB 2000										
18...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
344016078161701 UNNAMED TRIBUTARY TO KEITH BRANCH NEAR KERR, NC (LAT 34 40 15N LONG 078 16 16W)											
FEB 2000											
24...	1315	.51	9.4	5.1	50	22.0	12.0	1.68	.95	3.0	4.1
345624078135801 UNNAMED TRIBUTARY TO RUNS CREEK NEAR CLINTON, NC (LAT 34 56 24N LONG 078 13 58W)											
MAR 2000											
16...	1300	1.6	8.9	5.2	20	24.0	13.0	1.46	1.22	2.0	3.7
350014078362501 LONG BRANCH TRIBUTARY NEAR AUTRYVILLE, NC (LAT 35 00 13N LONG 078 36 25W)											
MAY 2000											
04...	0800	.71	4.7	4.6	50	18.0	17.0	2.00	1.27	1.6	3.4
352354078351701 UNNAMED TRIBUTARY TO MINGO SWAMP NEAR BENSON, NC (LAT 35 23 54N LONG 078 35 17W)											
MAR 2000											
10...	1300	.25	8.3	5.9	89	30.5	21.0	4.72	2.27	4.0	4.2
343521077510301 NORTHEAST CAPE FEAR RIVER TRIB NEAR BURGAW, NC (LAT 34 35 20N LONG 077 51 02W)											
FEB 2000											
21...	1615	.06	7.9	5.3	41	15.0	11.0	4.52	.78	.5	3.1
343821077475901 HOLLY SHELTER CREEK TRIBUTARY NEAR BURGAW, NC (LAT 34 38 21N LONG 077 47 59W)											
MAY 2000											
03...	0830	.93	7.0	3.4	98	26.0	15.5	1.05	.33	<.2	2.3
344624077511601 NORTHEAST CAPE FEAR RIVER TRIBUTARY NEAR SLOAN, N(LAT 34 46 24N LONG 077 51 16W)											
FEB 2000											
22...	1245	.06	9.2	5.3	139	14.0	12.0	11.8	2.49	6.5	4.8
345540078032101 UNNAMED TRIB TO MAXWELL CREEK NEAR WARSAW, NC (LAT 34 55 40N LONG 078 03 20W)											
MAR 2000											
16...	0900	.56	9.5	5.7	95	23.0	12.5	14.0	1.63	2.5	3.5
345950077515601 GREY RUN NEAR BEULAVILLE, NC (LAT 34 59 49N LONG 077 51 56W)											
FEB 2000											
23...	1700	.10	7.8	5.6	53	18.0	14.5	3.63	.90	1.2	4.1
350751078094701 UNNAMED TRIB TO PANTHER BRANCH NEAR FAISON, NC (LAT 35 07 50N LONG 078 09 46W)											
MAY 2000											
03...	1200	.00	6.4	5.8	201	25.0	17.0	16.6	4.55	3.5	5.4

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
344016078161701 UNNAMED TRIBUTARY TO KEITH BRANCH NEAR KERR, NC (LAT 34 40 15N LONG 078 16 16W)											
FEB 2000											
24...	2	2	5.4	<.1	5.0	1.8	.25	.44	.029	1.81	<.010
345624078135801 UNNAMED TRIBUTARY TO RUNS CREEK NEAR CLINTON, NC (LAT 34 56 24N LONG 078 13 58W)											
MAR 2000											
16...	4	4	7.7	<.1	3.6	3.3	.45	.52	.062	.274	<.010
350014078362501 LONG BRANCH TRIBUTARY NEAR AUTRYVILLE, NC (LAT 35 00 13N LONG 078 36 25W)											
MAY 2000											
04...	6	7	8.6	<.1	3.3	4.8	.44	.49	.061	.118	<.010
352354078351701 UNNAMED TRIBUTARY TO MINGO SWAMP NEAR BENSON, NC (LAT 35 23 54N LONG 078 35 17W)											
MAR 2000											
10...	5	6	9.2	<.1	3.6	11.4	.48	.58	.163	.735	<.010
343521077510301 NORTHEAST CAPE FEAR RIVER TRIB NEAR BURGAW, NC (LAT 34 35 20N LONG 077 51 02W)											
FEB 2000											
21...	6	7	5.5	<.1	2.6	1.5	.71	2.3	.026	<.050	<.010
343821077475901 HOLLY SHELTER CREEK TRIBUTARY NEAR BURGAW, NC (LAT 34 38 21N LONG 077 47 59W)											
MAY 2000											
03...	--	--	4.1	<.1	4.0	3.4	.89	1.0	.048	<.050	.019
344624077511601 NORTHEAST CAPE FEAR RIVER TRIBUTARY NEAR SLOAN, N(LAT 34 46 24N LONG 077 51 16W)											
FEB 2000											
22...	9	10	8.7	<.1	4.9	10.1	.36	.36	<.020	7.24	<.010
345540078032101 UNNAMED TRIB TO MAXWELL CREEK NEAR WARSAW, NC (LAT 34 55 40N LONG 078 03 20W)											
MAR 2000											
16...	30	37	7.2	<.1	4.7	6.7	.39	.56	.088	.905	<.010
345950077515601 GREY RUN NEAR BEULAVILLE, NC (LAT 34 59 49N LONG 077 51 56W)											
FEB 2000											
23...	6	7	7.5	<.1	3.1	2.6	.45	.76	.053	.149	<.010
350751078094701 UNNAMED TRIB TO PANTHER BRANCH NEAR FAISON, NC (LAT 35 07 50N LONG 078 09 46W)											
MAY 2000											
03...	11	13	27.2	.2	4.9	13.6	.37	.71	.171	5.31	.019

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
344016078161701 UNNAMED TRIBUTARY TO KEITH BRANCH NEAR KERR, NC (LAT 34 40 15N LONG 078 16 16W)											
FEB 2000											
24...	.041	.023	.055	52	190	13	<.003	<.002	<.002	<.002	<.001
345624078135801 UNNAMED TRIBUTARY TO RUNS CREEK NEAR CLINTON, NC (LAT 34 56 24N LONG 078 13 58W)											
MAR 2000											
16...	.036	.014	.059	58	560	13	<.003	<.002	<.002	<.002	E.002
350014078362501 LONG BRANCH TRIBUTARY NEAR AUTRYVILLE, NC (LAT 35 00 13N LONG 078 36 25W)											
MAY 2000											
04...	.037	.018	.058	55	490	44	<.003	<.002	E.004	<.002	.006
352354078351701 UNNAMED TRIBUTARY TO MINGO SWAMP NEAR BENSON, NC (LAT 35 23 54N LONG 078 35 17W)											
MAR 2000											
10...	.008	<.010	.079	61	350	79	<.003	<.002	<.002	<.002	<.001
343521077510301 NORTHEAST CAPE FEAR RIVER TRIB NEAR BURGAW, NC (LAT 34 35 20N LONG 077 51 02W)											
FEB 2000											
21...	.047	.020	.077	81	570	12	<.003	<.002	<.002	<.002	<.001
343821077475901 HOLLY SHELTER CREEK TRIBUTARY NEAR BURGAW, NC (LAT 34 38 21N LONG 077 47 59W)											
MAY 2000											
03...	.011	<.010	.014	122	210	15	<.003	<.002	<.002	<.002	<.001
344624077511601 NORTHEAST CAPE FEAR RIVER TRIBUTARY NEAR SLOAN, N(LAT 34 46 24N LONG 077 51 16W)											
FEB 2000											
22...	E.004	<.010	.022	101	70	47	<.003	<.002	.079	<.002	<.001
345540078032101 UNNAMED TRIB TO MAXWELL CREEK NEAR WARSAW, NC (LAT 34 55 40N LONG 078 03 20W)											
MAR 2000											
16...	.020	<.010	.043	79	320	22	<.003	<.002	<.002	<.002	E.004
345950077515601 GREY RUN NEAR BEULAVILLE, NC (LAT 34 59 49N LONG 077 51 56W)											
FEB 2000											
23...	.024	<.010	.056	55	380	11	<.003	<.002	E.004	<.002	<.001
350751078094701 UNNAMED TRIB TO PANTHER BRANCH NEAR FAISON, NC (LAT 35 07 50N LONG 078 09 46W)											
MAY 2000											
03...	E.004	<.010	.101	144	170	55	<.003	<.002	E.003	<.002	.025

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
344016078161701 UNNAMED TRIBUTARY TO KEITH BRANCH NEAR KERR, NC (LAT 34 40 15N LONG 078 16 16W)											
FEB 2000											
24...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
345624078135801 UNNAMED TRIBUTARY TO RUNS CREEK NEAR CLINTON, NC (LAT 34 56 24N LONG 078 13 58W)											
MAR 2000											
16...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
350014078362501 LONG BRANCH TRIBUTARY NEAR AUTRYVILLE, NC (LAT 35 00 13N LONG 078 36 25W)											
MAY 2000											
04...	<.002	<.002	<.003	<.003	<.005	<.004	<.002	E.003	<.002	<.001	<.017
352354078351701 UNNAMED TRIBUTARY TO MINGO SWAMP NEAR BENSON, NC (LAT 35 23 54N LONG 078 35 17W)											
MAR 2000											
10...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
343521077510301 NORTHEAST CAPE FEAR RIVER TRIB NEAR BURGAW, NC (LAT 34 35 20N LONG 077 51 02W)											
FEB 2000											
21...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
343821077475901 HOLLY SHELTER CREEK TRIBUTARY NEAR BURGAW, NC (LAT 34 38 21N LONG 077 47 59W)											
MAY 2000											
03...	<.002	<.002	<.010	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
344624077511601 NORTHEAST CAPE FEAR RIVER TRIBUTARY NEAR SLOAN, N(LAT 34 46 24N LONG 077 51 16W)											
FEB 2000											
22...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
345540078032101 UNNAMED TRIB TO MAXWELL CREEK NEAR WARSAW, NC (LAT 34 55 40N LONG 078 03 20W)											
MAR 2000											
16...	<.002	<.002	<.020	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
345950077515601 GREY RUN NEAR BEULAVILLE, NC (LAT 34 59 49N LONG 077 51 56W)											
FEB 2000											
23...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	.006	<.001	<.017
350751078094701 UNNAMED TRIB TO PANTHER BRANCH NEAR FAISON, NC (LAT 35 07 50N LONG 078 09 46W)											
MAY 2000											
03...	<.002	<.002	<.003	<.003	<.004	.010	<.002	E.005	<.002	<.001	<.017

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
344016078161701 UNNAMED TRIBUTARY TO KEITH BRANCH NEAR KERR, NC (LAT 34 40 15N LONG 078 16 16W)											
FEB 2000											
24...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
345624078135801 UNNAMED TRIBUTARY TO RUNS CREEK NEAR CLINTON, NC (LAT 34 56 24N LONG 078 13 58W)											
MAR 2000											
16...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	E.004	<.004
350014078362501 LONG BRANCH TRIBUTARY NEAR AUTRYVILLE, NC (LAT 35 00 13N LONG 078 36 25W)											
MAY 2000											
04...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	<.004
352354078351701 UNNAMED TRIBUTARY TO MINGO SWAMP NEAR BENSON, NC (LAT 35 23 54N LONG 078 35 17W)											
MAR 2000											
10...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.007	<.004
343521077510301 NORTHEAST CAPE FEAR RIVER TRIB NEAR BURGAW, NC (LAT 34 35 20N LONG 077 51 02W)											
FEB 2000											
21...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
343821077475901 HOLLY SHELTER CREEK TRIBUTARY NEAR BURGAW, NC (LAT 34 38 21N LONG 077 47 59W)											
MAY 2000											
03...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
344624077511601 NORTHEAST CAPE FEAR RIVER TRIBUTARY NEAR SLOAN, N(LAT 34 46 24N LONG 077 51 16W)											
FEB 2000											
22...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
345540078032101 UNNAMED TRIB TO MAXWELL CREEK NEAR WARSAW, NC (LAT 34 55 40N LONG 078 03 20W)											
MAR 2000											
16...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
345950077515601 GREY RUN NEAR BEULAVILLE, NC (LAT 34 59 49N LONG 077 51 56W)											
FEB 2000											
23...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
350751078094701 UNNAMED TRIB TO PANTHER BRANCH NEAR FAISON, NC (LAT 35 07 50N LONG 078 09 46W)											
MAY 2000											
03...	E.003	<.004	<.003	<.003	<.004	<.002	E.004	<.001	<.006	.039	<.004

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
344016078161701 UNNAMED TRIBUTARY TO KEITH BRANCH NEAR KERR, NC (LAT 34 40 15N LONG 078 16 16W)										
FEB 2000										
24...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
345624078135801 UNNAMED TRIBUTARY TO RUNS CREEK NEAR CLINTON, NC (LAT 34 56 24N LONG 078 13 58W)										
MAR 2000										
16...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
350014078362501 LONG BRANCH TRIBUTARY NEAR AUTRYVILLE, NC (LAT 35 00 13N LONG 078 36 25W)										
MAY 2000										
04...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
352354078351701 UNNAMED TRIBUTARY TO MINGO SWAMP NEAR BENSON, NC (LAT 35 23 54N LONG 078 35 17W)										
MAR 2000										
10...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.004	<.003
343521077510301 NORTHEAST CAPE FEAR RIVER TRIB NEAR BURGAW, NC (LAT 34 35 20N LONG 077 51 02W)										
FEB 2000										
21...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
343821077475901 HOLLY SHELTER CREEK TRIBUTARY NEAR BURGAW, NC (LAT 34 38 21N LONG 077 47 59W)										
MAY 2000										
03...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
344624077511601 NORTHEAST CAPE FEAR RIVER TRIBUTARY NEAR SLOAN, N(LAT 34 46 24N LONG 077 51 16W)										
FEB 2000										
22...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
345540078032101 UNNAMED TRIB TO MAXWELL CREEK NEAR WARSAW, NC (LAT 34 55 40N LONG 078 03 20W)										
MAR 2000										
16...	<.004	.017	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
345950077515601 GREY RUN NEAR BEULAVILLE, NC (LAT 34 59 49N LONG 077 51 56W)										
FEB 2000										
23...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
350751078094701 UNNAMED TRIB TO PANTHER BRANCH NEAR FAISON, NC (LAT 35 07 50N LONG 078 09 46W)										
MAY 2000										
03...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.008	<.003

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
344016078161701 UNNAMED TRIBUTARY TO KEITH BRANCH NEAR KERR, NC (LAT 34 40 15N LONG 078 16 16W)										
FEB 2000										
24...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
345624078135801 UNNAMED TRIBUTARY TO RUNS CREEK NEAR CLINTON, NC (LAT 34 56 24N LONG 078 13 58W)										
MAR 2000										
16...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
350014078362501 LONG BRANCH TRIBUTARY NEAR AUTRYVILLE, NC (LAT 35 00 13N LONG 078 36 25W)										
MAY 2000										
04...	<.007	<.004	<.013	<.006	<.010	<.007	<.013	<.002	<.001	<.002
352354078351701 UNNAMED TRIBUTARY TO MINGO SWAMP NEAR BENSON, NC (LAT 35 23 54N LONG 078 35 17W)										
MAR 2000										
10...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	.006
343521077510301 NORTHEAST CAPE FEAR RIVER TRIB NEAR BURGAW, NC (LAT 34 35 20N LONG 077 51 02W)										
FEB 2000										
21...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
343821077475901 HOLLY SHELTER CREEK TRIBUTARY NEAR BURGAW, NC (LAT 34 38 21N LONG 077 47 59W)										
MAY 2000										
03...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
344624077511601 NORTHEAST CAPE FEAR RIVER TRIBUTARY NEAR SLOAN, N(LAT 34 46 24N LONG 077 51 16W)										
FEB 2000										
22...	<.007	<.004	<.013	<.005	.015	<.007	<.013	<.002	<.001	<.002
345540078032101 UNNAMED TRIB TO MAXWELL CREEK NEAR WARSAW, NC (LAT 34 55 40N LONG 078 03 20W)										
MAR 2000										
16...	<.007	<.004	<.013	.099	<.010	<.007	<.013	<.002	<.001	<.002
345950077515601 GREY RUN NEAR BEULAVILLE, NC (LAT 34 59 49N LONG 077 51 56W)										
FEB 2000										
23...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
350751078094701 UNNAMED TRIB TO PANTHER BRANCH NEAR FAISON, NC (LAT 35 07 50N LONG 078 09 46W)										
MAY 2000										
03...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	.007

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
350409079391301 ROCKY FORK CREEK TRIBUTARY NEAR ELLERBE, NC (LAT 35 04 09N LONG 079 39 12W)											
MAY 2000											
03...	0900	.77	9.1	4.6	11	24.0	16.0	.08	.11	<.2	.9
342100078503801 UNNAMED TRIBUTARY TO DUNN SWAMP NEAR CHADBOURN, N(LAT 34 20 59N LONG 078 50 37W)											
FEB 2000											
19...	0930	2.6	9.2	4.8	48	19.0	11.5	2.12	1.24	.8	3.4
344630078490201 UNNAMED TRIB TO GOODMAN SWAMP NEAR SAINT PAULS, N(LAT 34 46 29N LONG 078 49 01W)											
FEB 2000											
18...	1230	.48	8.3	4.2	92	8.0	8.5	4.63	2.89	2.1	2.9
344922079091801 MCLEANS BRANCH NEAR RED SPRINGS, NC (LAT 34 49 21N LONG 079 09 18W)											
FEB 2000											
17...	1200	.23	10.9	5.7	61	11.0	12.0	3.80	2.47	2.1	2.3
350512079235601 UNNAMED TRIB TO QUEWHIFFLE CR NEAR PINEBLUFF, NC (LAT 35 05 11N LONG 079 23 55W)											
FEB 2000											
16...	1300	.61	9.0	4.6	21	19.0	13.0	.44	.61	.4	2.0
351304079362801 JACKSON CREEK TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 13 04N LONG 079 36 28W)											
MAY 2000											
02...	1330	1.9	9.2	5.3	13	23.5	18.5	.25	.34	E.2	1.3
351634079434101 UNNAMED TRIB TO DROWNING CREEK NEAR CANDOR, NC (LAT 35 16 34N LONG 079 43 41W)											
FEB 2000											
15...	1315	.63	8.6	5.5	29	12.0	12.5	.80	.67	1.6	2.2
341751078371101 PALMETTO BRANCH NEAR WHITEVILLE, NC (LAT 34 17 50N LONG 078 37 11W)											
FEB 2000											
19...	1115	.38	8.2	6.8	187	24.5	13.0	29.9	1.47	1.0	6.5
355817078121201 MILL CREEK NEAR LONG BEACH, NC (LAT 33 58 17N LONG 078 12 12W)											
FEB 2000											
21...	1300	.44	8.1	6.1	110	11.5	11.5	8.68	1.52	1.0	8.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
350409079391301 ROCKY FORK CREEK TRIBUTARY NEAR ELLERBE, NC (LAT 35 04 09N LONG 079 39 12W)											
MAY 2000											
03...	2	2	2.1	<.1	3.7	.6	<.10	.11	<.020	<.050	<.010
342100078503801 UNNAMED TRIBUTARY TO DUNN SWAMP NEAR CHADBOURN, N(LAT 34 20 59N LONG 078 50 37W)											
FEB 2000											
19...	4	5	7.6	<.1	4.1	4.1	.21	.24	<.020	.424	<.010
344630078490201 UNNAMED TRIB TO GOODMAN SWAMP NEAR SAINT PAULS, N(LAT 34 46 29N LONG 078 49 01W)											
FEB 2000											
18...	<1	<1	10.2	<.1	5.5	7.3	1.4	.40	.020	2.57	<.010
344922079091801 MCLEANS BRANCH NEAR RED SPRINGS, NC (LAT 34 49 21N LONG 079 09 18W)											
FEB 2000											
17...	8	10	9.3	<.1	.3	2.8	.37	.56	.084	.151	<.010
350512079235601 UNNAMED TRIB TO QUEWHIFFLE CR NEAR PINEBLUFF, NC (LAT 35 05 11N LONG 079 23 55W)											
FEB 2000											
16...	<1	<1	2.7	<.1	4.1	.8	<.10	E.10	<.020	.595	<.010
351304079362801 JACKSON CREEK TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 13 04N LONG 079 36 28W)											
MAY 2000											
02...	4	5	1.8	<.1	3.5	1.0	.12	.25	<.020	.205	<.010
351634079434101 UNNAMED TRIB TO DROWNING CREEK NEAR CANDOR, NC (LAT 35 16 34N LONG 079 43 41W)											
FEB 2000											
15...	4	5	3.8	<.1	2.4	1.5	.28	.38	.152	.340	<.010
341751078371101 PALMETTO BRANCH NEAR WHITEVILLE, NC (LAT 34 17 50N LONG 078 37 11W)											
FEB 2000											
19...	64	78	11.1	<.1	4.5	7.6	.44	.53	.022	.127	<.010
355817078121201 MILL CREEK NEAR LONG BEACH, NC (LAT 33 58 17N LONG 078 12 12W)											
FEB 2000											
21...	20	24	14.2	<.1	6.6	8.0	.19	2.8	<.020	.130	<.010

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
350409079391301 ROCKY FORK CREEK TRIBUTARY NEAR ELLERBE, NC (LAT 35 04 09N LONG 079 39 12W)											
MAY 2000											
03...	<.006	<.010	E.004	11	40	4	<.003	<.002	<.002	<.002	<.001
342100078503801 UNNAMED TRIBUTARY TO DUNN SWAMP NEAR CHADBOURN, N(LAT 34 20 59N LONG 078 50 37W)											
FEB 2000											
19...	E.003	<.010	.010	46	190	10	<.003	<.002	<.002	<.002	<.010
344630078490201 UNNAMED TRIB TO GOODMAN SWAMP NEAR SAINT PAULS, N(LAT 34 46 29N LONG 078 49 01W)											
FEB 2000											
18...	.006	<.010	.014	79	310	23	<.003	<.002	<.002	<.002	<.015
344922079091801 MCLEANS BRANCH NEAR RED SPRINGS, NC (LAT 34 49 21N LONG 079 09 18W)											
FEB 2000											
17...	.014	<.010	.031	48	160	15	<.003	<.002	<.002	<.002	<.001
350512079235601 UNNAMED TRIB TO QUEWHIFFLE CR NEAR PINEBLUFF, NC (LAT 35 05 11N LONG 079 23 55W)											
FEB 2000											
16...	<.006	<.010	<.008	19	40	6	<.003	<.002	<.002	<.002	<.001
351304079362801 JACKSON CREEK TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 13 04N LONG 079 36 28W)											
MAY 2000											
02...	<.006	<.010	<.008	13	120	6	<.003	<.002	<.002	<.002	E.004
351634079434101 UNNAMED TRIB TO DROWNING CREEK NEAR CANDOR, NC (LAT 35 16 34N LONG 079 43 41W)											
FEB 2000											
15...	<.006	<.010	E.007	33	550	15	<.003	<.002	<.002	<.002	<.001
341751078371101 PALMETTO BRANCH NEAR WHITEVILLE, NC (LAT 34 17 50N LONG 078 37 11W)											
FEB 2000											
19...	.009	<.010	.029	145	470	20	<.003	<.002	<.002	<.002	E.002
355817078121201 MILL CREEK NEAR LONG BEACH, NC (LAT 33 58 17N LONG 078 12 12W)											
FEB 2000											
21...	.006	<.010	.015	78	280	10	<.003	<.002	<.002	<.002	<.001

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
350409079391301 ROCKY FORK CREEK TRIBUTARY NEAR ELLERBE, NC (LAT 35 04 09N LONG 079 39 12W)											
MAY 2000											
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
342100078503801 UNNAMED TRIBUTARY TO DUNN SWAMP NEAR CHADBOURN, N(LAT 34 20 59N LONG 078 50 37W)											
FEB 2000											
19...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
344630078490201 UNNAMED TRIB TO GOODMAN SWAMP NEAR SAINT PAULS, N(LAT 34 46 29N LONG 078 49 01W)											
FEB 2000											
18...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.017
344922079091801 MCLEANS BRANCH NEAR RED SPRINGS, NC (LAT 34 49 21N LONG 079 09 18W)											
FEB 2000											
17...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
350512079235601 UNNAMED TRIB TO QUEWHIFFLE CR NEAR PINEBLUFF, NC (LAT 35 05 11N LONG 079 23 55W)											
FEB 2000											
16...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
351304079362801 JACKSON CREEK TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 13 04N LONG 079 36 28W)											
MAY 2000											
02...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
351634079434101 UNNAMED TRIB TO DROWNING CREEK NEAR CANDOR, NC (LAT 35 16 34N LONG 079 43 41W)											
FEB 2000											
15...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
341751078371101 PALMETTO BRANCH NEAR WHITEVILLE, NC (LAT 34 17 50N LONG 078 37 11W)											
FEB 2000											
19...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
355817078121201 MILL CREEK NEAR LONG BEACH, NC (LAT 33 58 17N LONG 078 12 12W)											
FEB 2000											
21...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
350409079391301 ROCKY FORK CREEK TRIBUTARY NEAR ELLERBE, NC (LAT 35 04 09N LONG 079 39 12W)											
MAY 2000											
03...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
342100078503801 UNNAMED TRIBUTARY TO DUNN SWAMP NEAR CHADBOURN, N(LAT 34 20 59N LONG 078 50 37W)											
FEB 2000											
19...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	<.004
344630078490201 UNNAMED TRIB TO GOODMAN SWAMP NEAR SAINT PAULS, N(LAT 34 46 29N LONG 078 49 01W)											
FEB 2000											
18...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.027	<.004
344922079091801 MCLEANS BRANCH NEAR RED SPRINGS, NC (LAT 34 49 21N LONG 079 09 18W)											
FEB 2000											
17...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
350512079235601 UNNAMED TRIB TO QUEWHIFFLE CR NEAR PINEBLUFF, NC (LAT 35 05 11N LONG 079 23 55W)											
FEB 2000											
16...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
351304079362801 JACKSON CREEK TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 13 04N LONG 079 36 28W)											
MAY 2000											
02...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
351634079434101 UNNAMED TRIB TO DROWNING CREEK NEAR CANDOR, NC (LAT 35 16 34N LONG 079 43 41W)											
FEB 2000											
15...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
341751078371101 PALMETTO BRANCH NEAR WHITEVILLE, NC (LAT 34 17 50N LONG 078 37 11W)											
FEB 2000											
19...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
355817078121201 MILL CREEK NEAR LONG BEACH, NC (LAT 33 58 17N LONG 078 12 12W)											
FEB 2000											
21...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
350409079391301 ROCKY FORK CREEK TRIBUTARY NEAR ELLERBE, NC (LAT 35 04 09N LONG 079 39 12W)										
MAY 2000										
03...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
342100078503801 UNNAMED TRIBUTARY TO DUNN SWAMP NEAR CHADBOURN, N(LAT 34 20 59N LONG 078 50 37W)										
FEB 2000										
19...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
344630078490201 UNNAMED TRIB TO GOODMAN SWAMP NEAR SAINT PAULS, N(LAT 34 46 29N LONG 078 49 01W)										
FEB 2000										
18...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
344922079091801 MCLEANS BRANCH NEAR RED SPRINGS, NC (LAT 34 49 21N LONG 079 09 18W)										
FEB 2000										
17...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
350512079235601 UNNAMED TRIB TO QUEWHIFFLE CR NEAR PINEBLUFF, NC (LAT 35 05 11N LONG 079 23 55W)										
FEB 2000										
16...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351304079362801 JACKSON CREEK TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 13 04N LONG 079 36 28W)										
MAY 2000										
02...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351634079434101 UNNAMED TRIB TO DROWNING CREEK NEAR CANDOR, NC (LAT 35 16 34N LONG 079 43 41W)										
FEB 2000										
15...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
341751078371101 PALMETTO BRANCH NEAR WHITEVILLE, NC (LAT 34 17 50N LONG 078 37 11W)										
FEB 2000										
19...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
355817078121201 MILL CREEK NEAR LONG BEACH, NC (LAT 33 58 17N LONG 078 12 12W)										
FEB 2000										
21...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
350409079391301 ROCKY FORK CREEK TRIBUTARY NEAR ELLERBE, NC (LAT 35 04 09N LONG 079 39 12W)										
MAY 2000										
03...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
342100078503801 UNNAMED TRIBUTARY TO DUNN SWAMP NEAR CHADBOURN, N(LAT 34 20 59N LONG 078 50 37W)										
FEB 2000										
19...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
344630078490201 UNNAMED TRIB TO GOODMAN SWAMP NEAR SAINT PAULS, N(LAT 34 46 29N LONG 078 49 01W)										
FEB 2000										
18...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
344922079091801 MCLEANS BRANCH NEAR RED SPRINGS, NC (LAT 34 49 21N LONG 079 09 18W)										
FEB 2000										
17...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	E.002
350512079235601 UNNAMED TRIB TO QUEWHIFFLE CR NEAR PINEBLUFF, NC (LAT 35 05 11N LONG 079 23 55W)										
FEB 2000										
16...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351304079362801 JACKSON CREEK TRIBUTARY NEAR SOUTHERN PINES, NC (LAT 35 13 04N LONG 079 36 28W)										
MAY 2000										
02...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351634079434101 UNNAMED TRIB TO DROWNING CREEK NEAR CANDOR, NC (LAT 35 16 34N LONG 079 43 41W)										
FEB 2000										
15...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
341751078371101 PALMETTO BRANCH NEAR WHITEVILLE, NC (LAT 34 17 50N LONG 078 37 11W)										
FEB 2000										
19...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
355817078121201 MILL CREEK NEAR LONG BEACH, NC (LAT 33 58 17N LONG 078 12 12W)										
FEB 2000										
21...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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