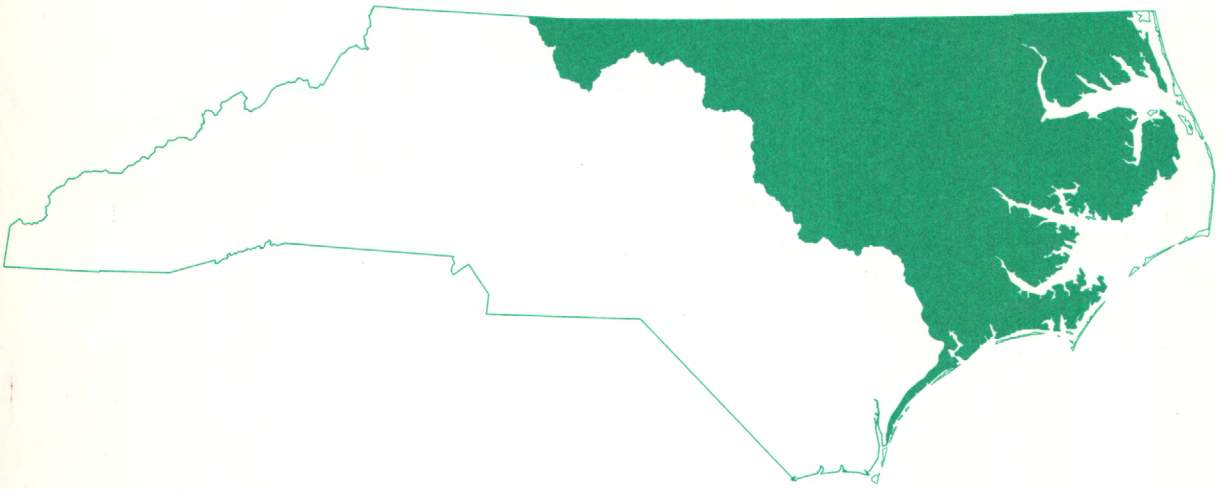
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Water Resources Data North Carolina Water Year 2000

Volume 1A. Surface-Water Records

Water-data Report NC-00-1A



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

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

S	M	T	W	T	F	S
					1	2
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31						

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2000

JANUARY

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SEPTEMBER

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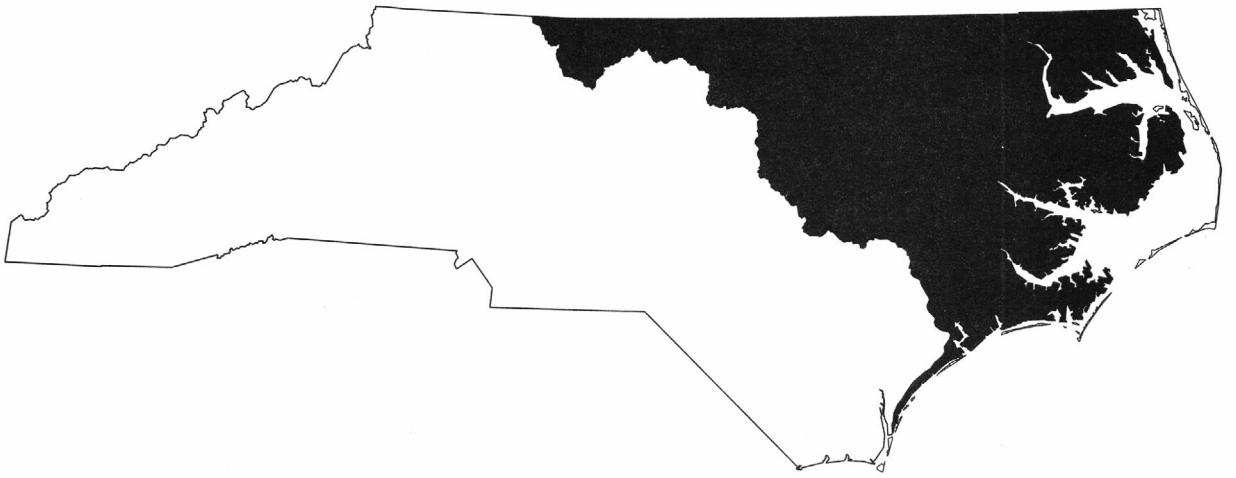
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Water Resources Data North Carolina Water Year 2000

Volume 1A. Surface-Water Records

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

Water-Data Report NC-00-1A



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

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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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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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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 61 gaging stations; stage and contents for 17 lakes and reservoirs; stage for 46 gaging stations; water quality for 61 gaging stations and 44 miscellaneous sites; continuous daily tide stage at 4 sites; continuous precipitation at 5 sites and miscellaneous measurements for 9 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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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 Basin		
02093229	Hewletts Creek at SR 102 near Wilmington, NC	1.98	1977-90
	Cape Fear River Basin		
0209330990	Brooks Lake tributary near Browns Summit, NC	.06	1985-90
0209331325	Candy Creek at SR 2700 near Monticello, NC	1.10	1985-90
02093500	Haw River near Benaja, NC	168	1928-71
02094000	Horsepen Creek at Battle Ground, NC	15.9	1925-31, 1934-59
02095000	South Buffalo Creek near Greensboro, NC	33.6	1928-58
0209509100	South Buffalo Creek at SR 2821 at McLeansville, NC	43.5	1986-88
02095500	North Buffalo Creek near Greensboro, NC	37.1	1929-90
0209555450	Buffalo Creek at SR 2719 near Osceola, NC	97.4	1986-87
0209560800	Reedy Fork Creek at NC 61 near Osceola, NC	243	1986-88
02096000	Stony Creek near Burlington, NC	44.2	1952-59
02096700	Big Alamance Creek near Elon College, NC	116	1957-80
02096842	Cane Creek 0.1mile above SR 1126 near Buckhorn, NC	.64	1979-81
02096850	Cane Creek near Teer, NC	33.7	1959-73
02097000	Haw River near Pittsboro, NC	1,310	1928-73
02097243	Third Fork Creek at Durham, NC	1.68	1968-73
02097500	Morgan Creek near Chapel Hill, NC	30.1	1923-32
0209782150	New Hope River tributary at SR 1716 near Farrington, NC	2.05	1986-88
02098000	New Hope River near Pittsboro, NC	285	1949-73
02098500	West Fork Deep River near High Point, NC	32.1	1923-26, 1928-58
02100000	Muddy Creek near Archdale, NC	16.7	1934-41
02101000	Bear Creek at Robbins, NC	134	1939-71
0210106600	Deep River nr Glendon, NC	859	1993-96
0210108450	Suck Creek tributary near Zion Grove, NC	.67	1986-88

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

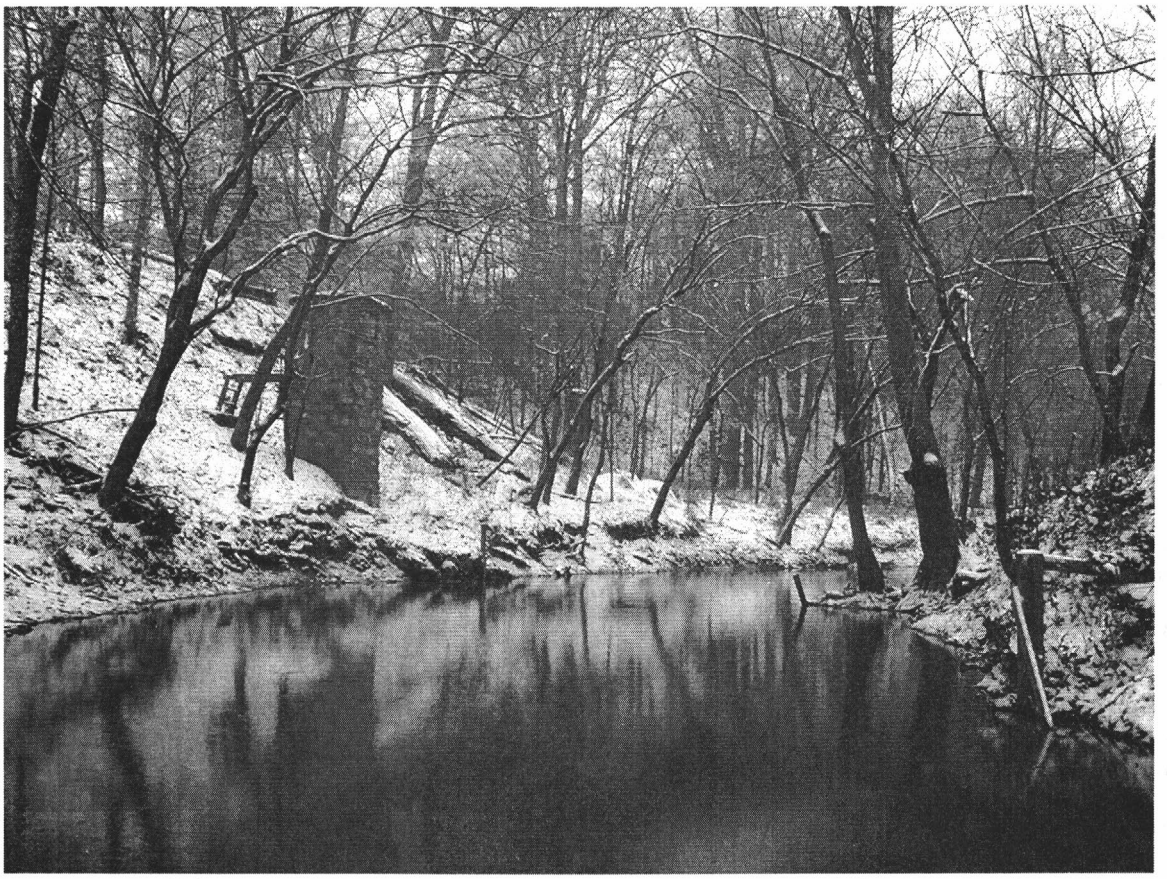
Station number	Station name	Drainage area (mi^2)	Period of record
	Cape Fear River Basin--Continued		
02103000	Little River at Manchester, NC	348	1938-50
02103500	Little River at Linden, NC	459	1928-71
02104000	Cape Fear River at Fayetteville, NC	4,395	1889-1903
			1928-40
02104387	Buckhead Creek near 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

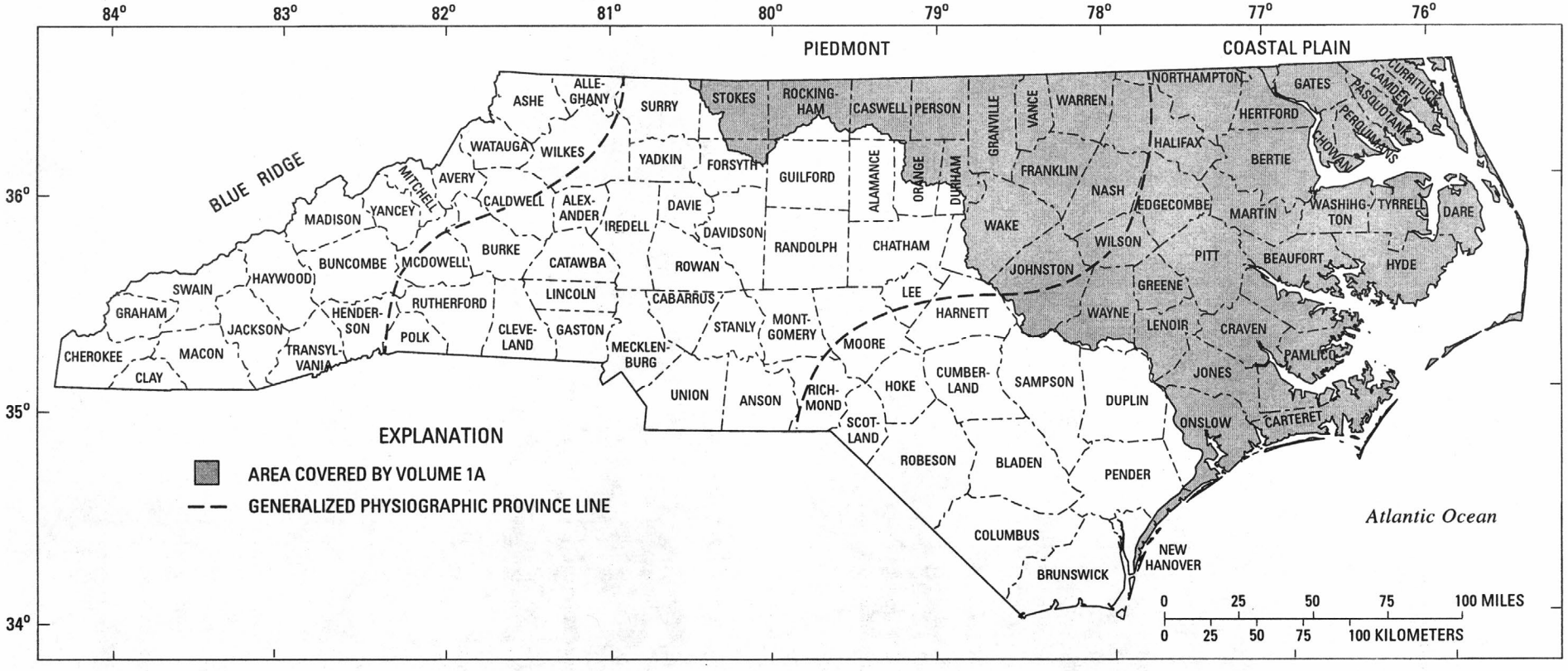
Station number	Station name	Drainage area (mi^2)	Period of record
	Santee River Basin		
02137000	Mill Creek at Old Fort, NC	20.7	1960-75
02138000	Catawba River near Marion, NC	172	1941-81
0213875850	High Shoals Creek near Dysartsville, NC	2.38	1986-88
02139200	Bailey Fork near Morganton, NC	7.86	1966-70
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 61 gaging stations; stage and contents for 17 lakes and reservoirs; stage for 46 gaging stations; water quality for 47 gaging stations and 44 miscellaneous sites; continuous daily tide stage at 4 sites; and continuous precipitation at 5 sites. Additional water data were collected at 9 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

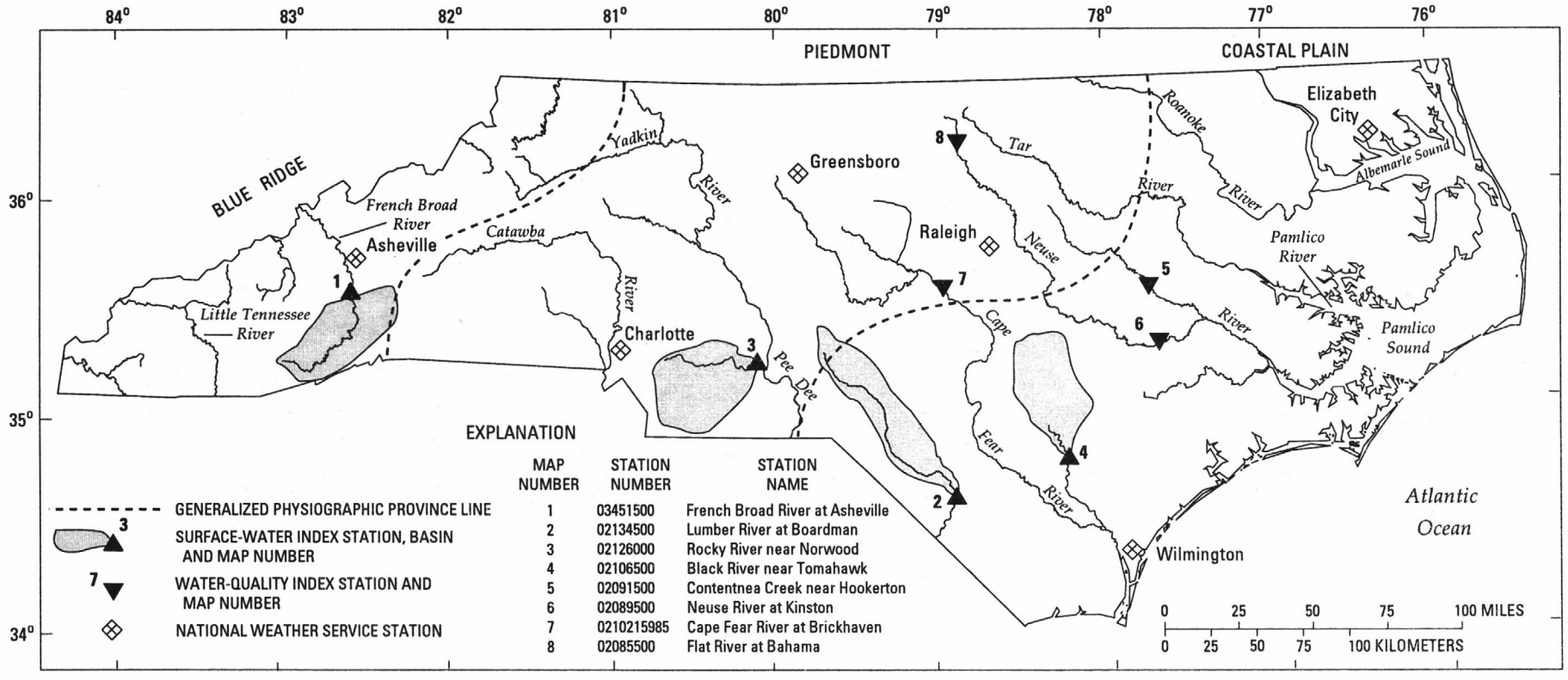


Figure 1.--Location of selected long-term index stations for collecting precipitation, discharge, and water-quality data in North Carolina.

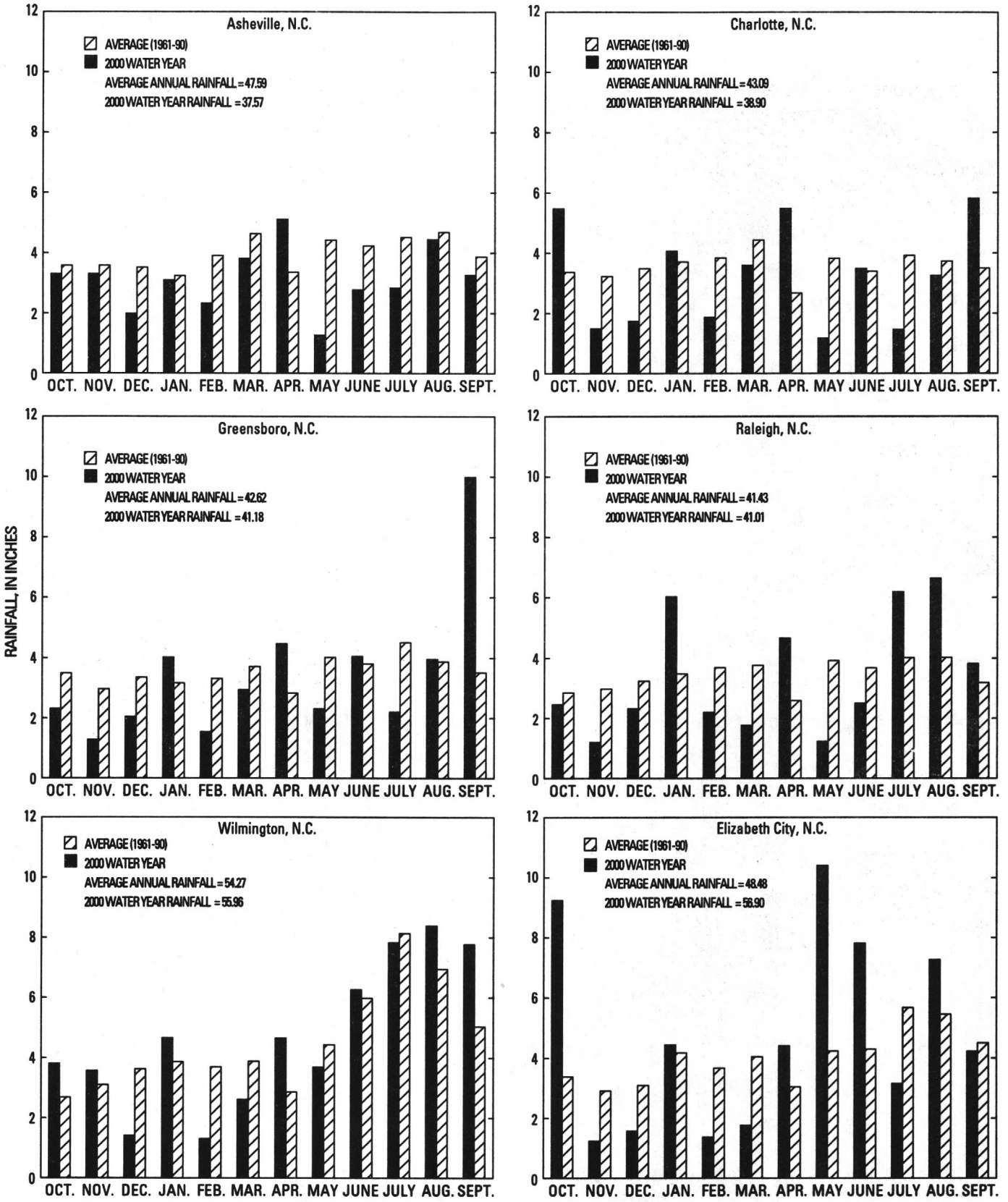


Figure 2.--Monthly rainfall and average monthly rainfall for the period 1961-90 at index stations for the 2000 water year (data from National Oceanic and Atmospheric Administration reports).

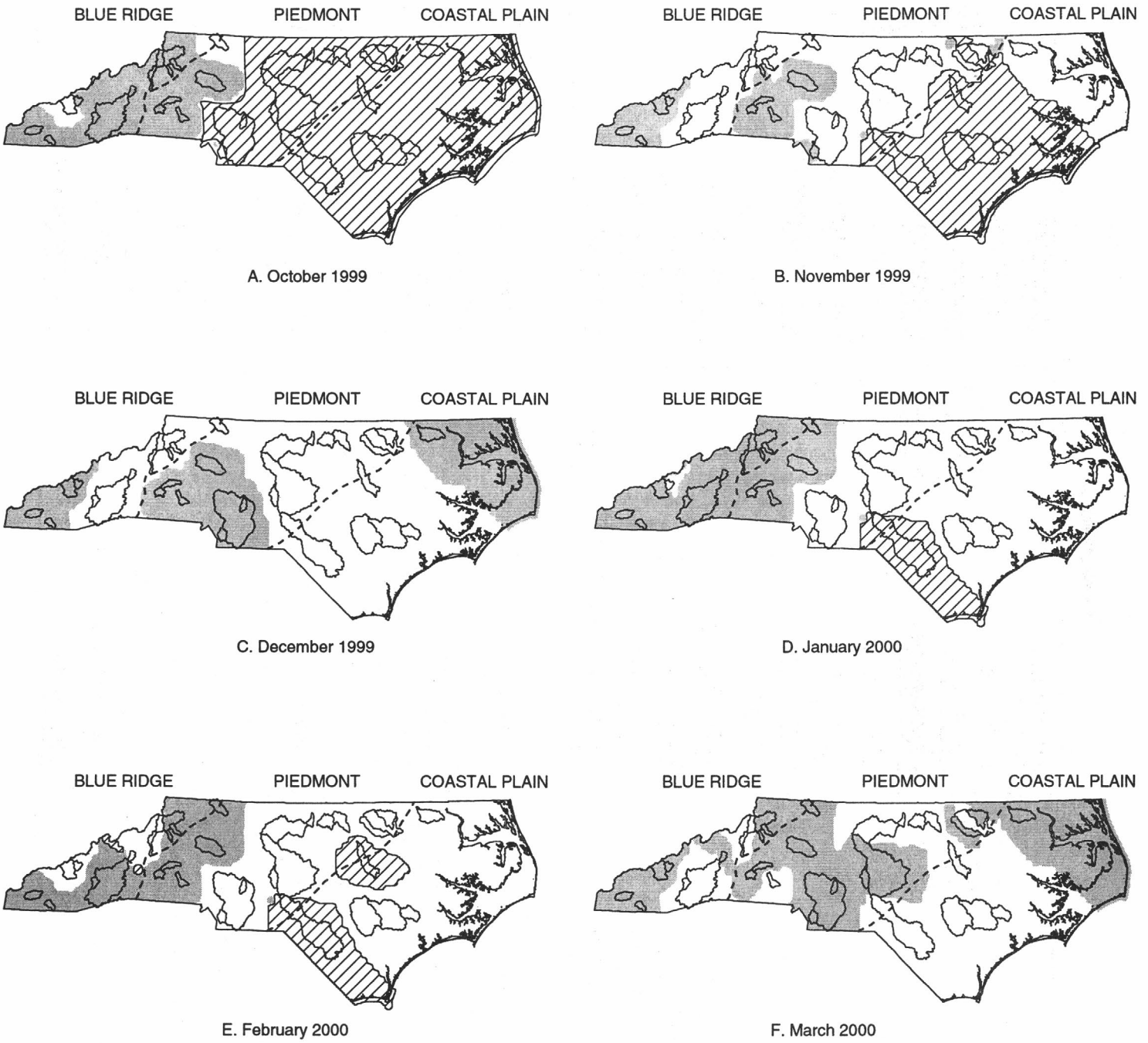


Figure 3.--Monthly streamflow in North Carolina during October - March, 2000 water year.

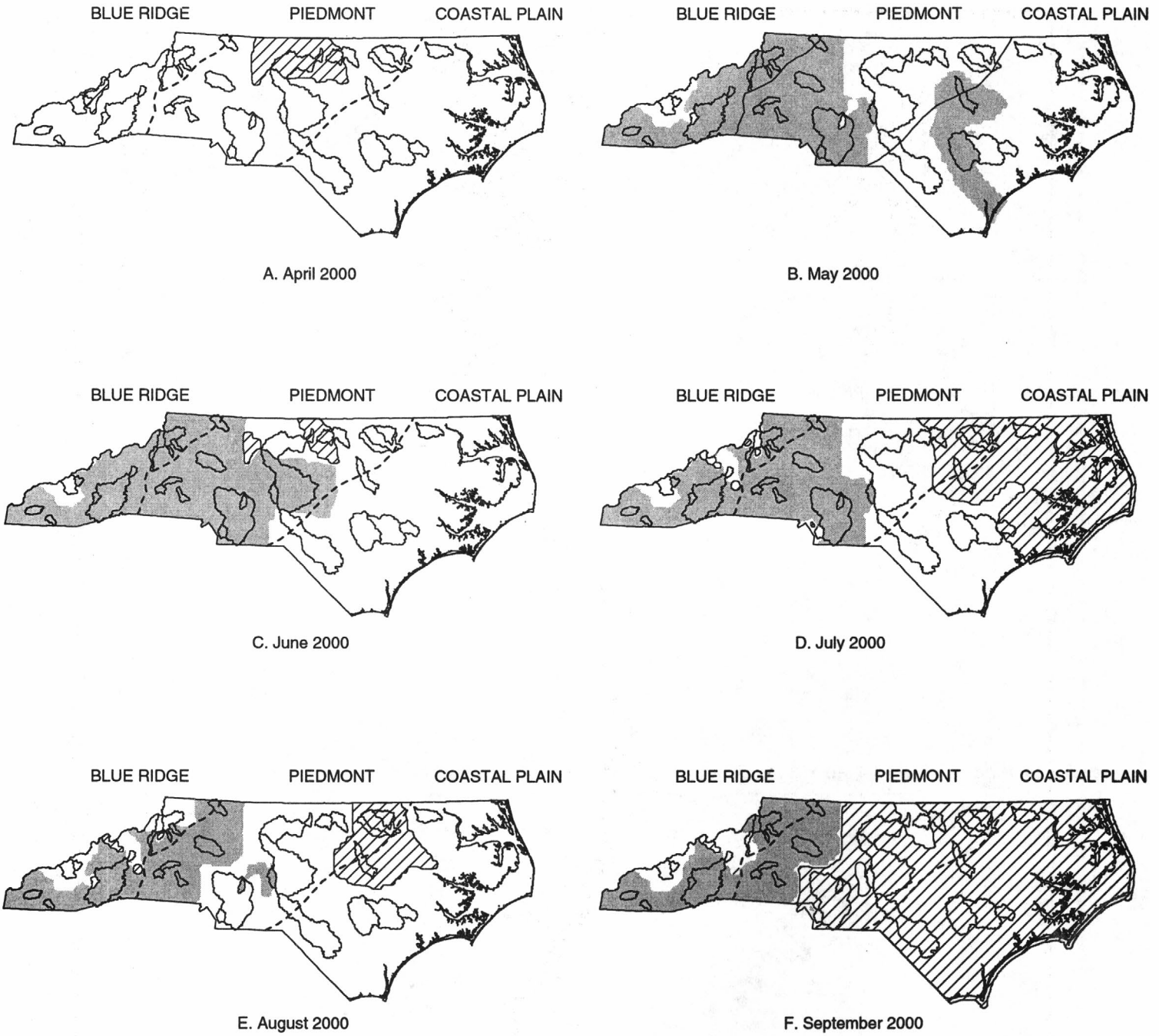


Figure 4.--Monthly streamflow in North Carolina during April - September, 2000 water year.

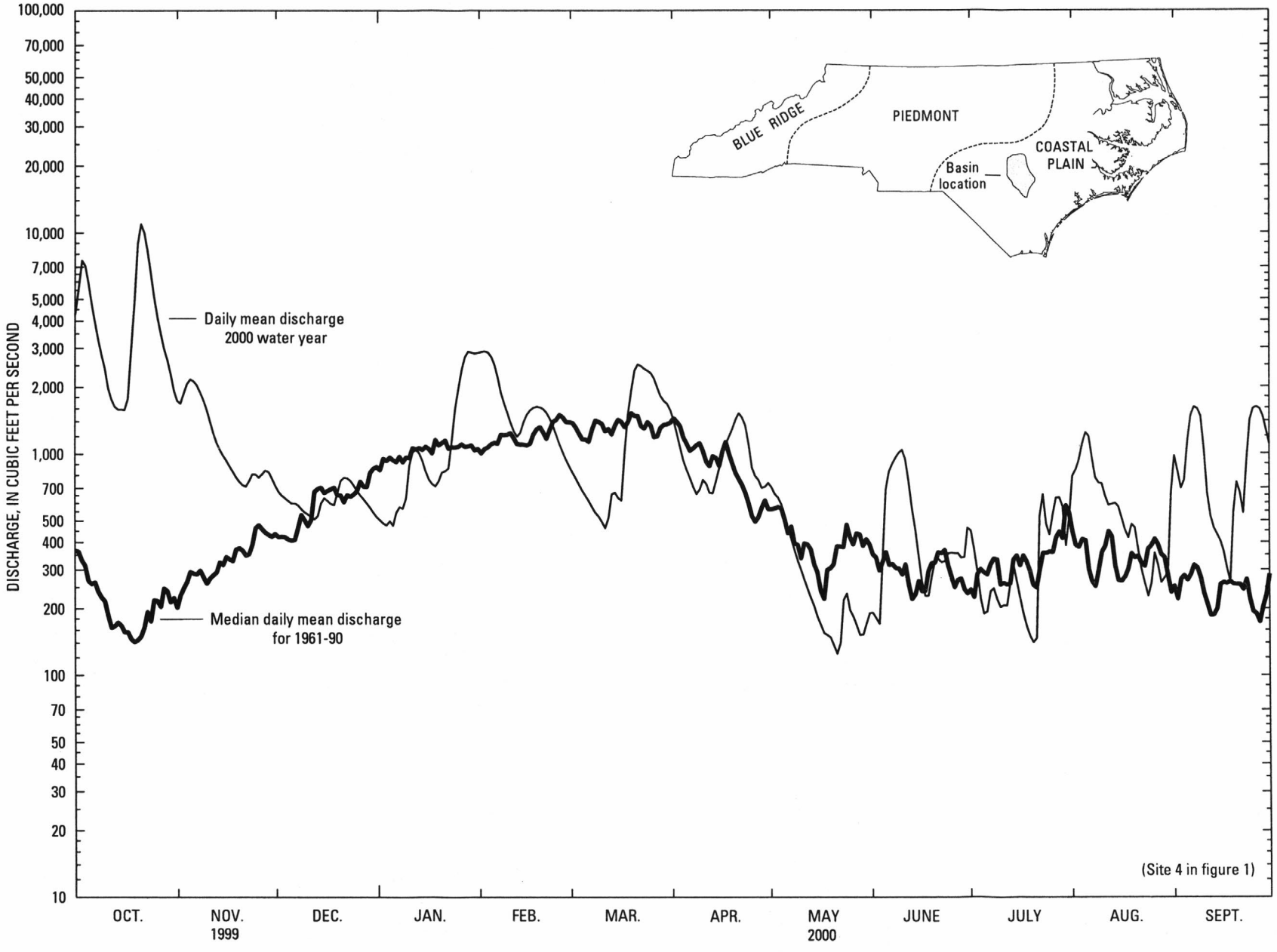


Figure 5.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for Black River near Tomahawk (02106500).

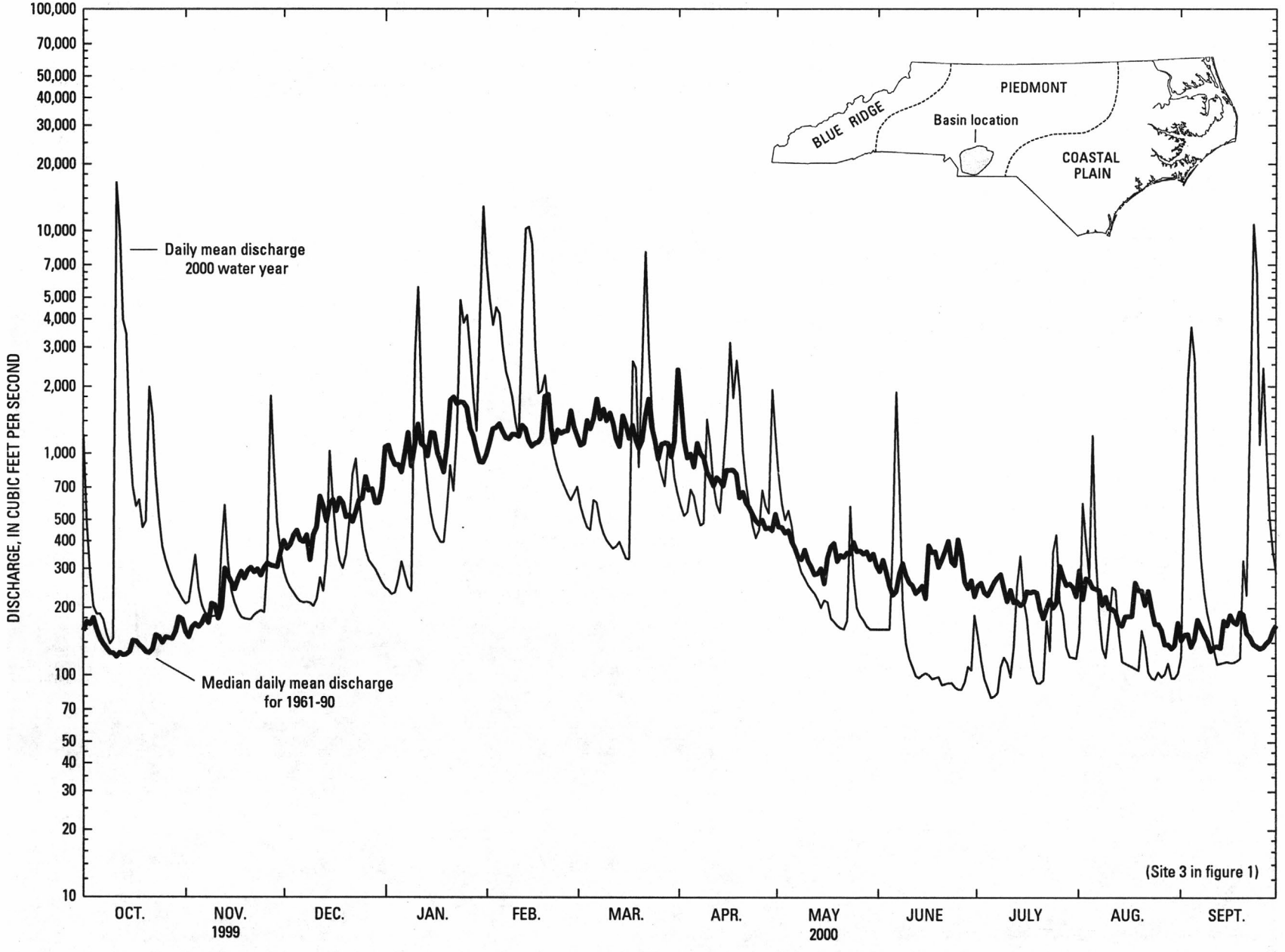


Figure 6.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for Rocky River near Norwood (02126000).

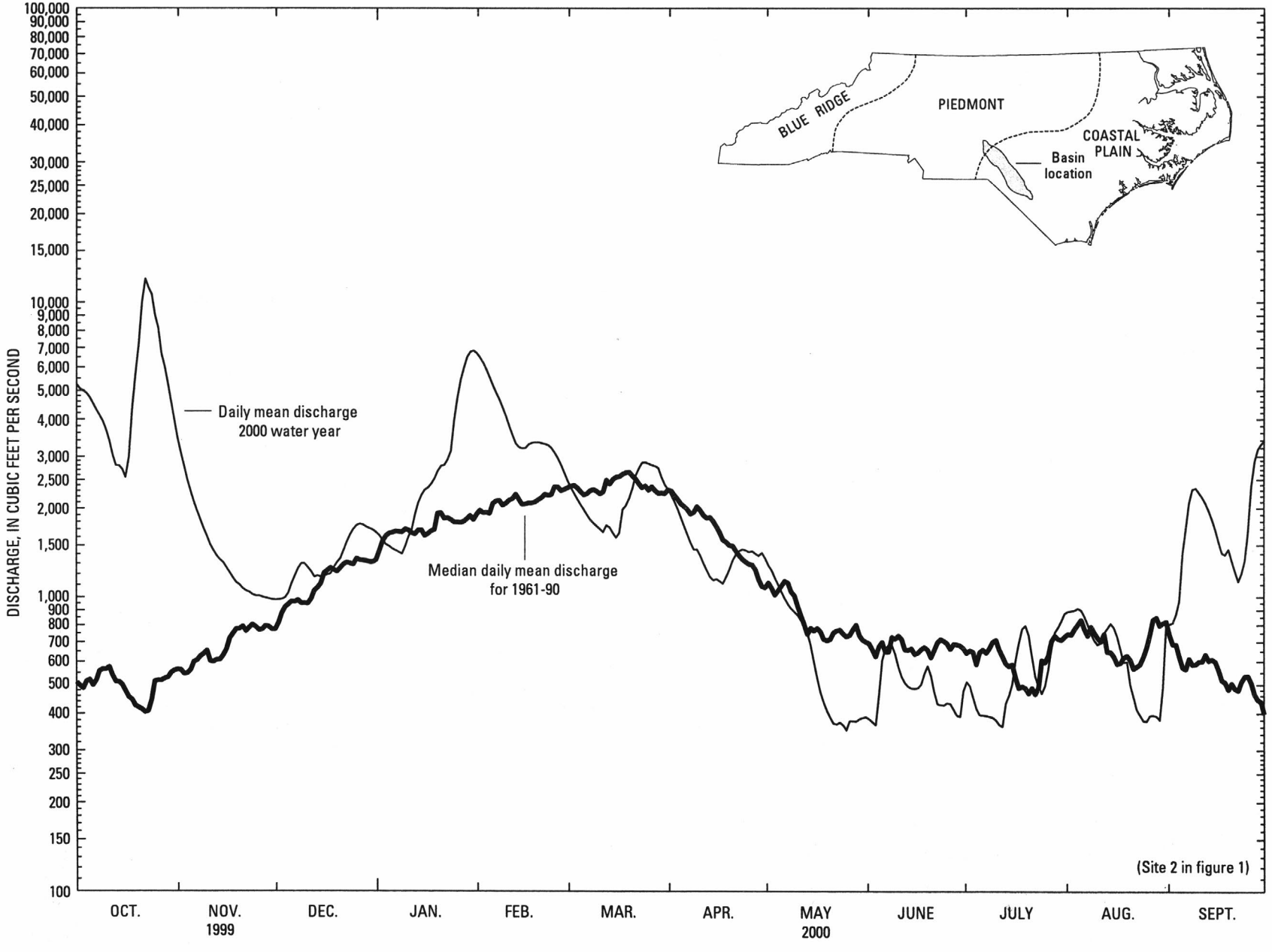


Figure 7.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for Lumber River at Boardman (02134500).

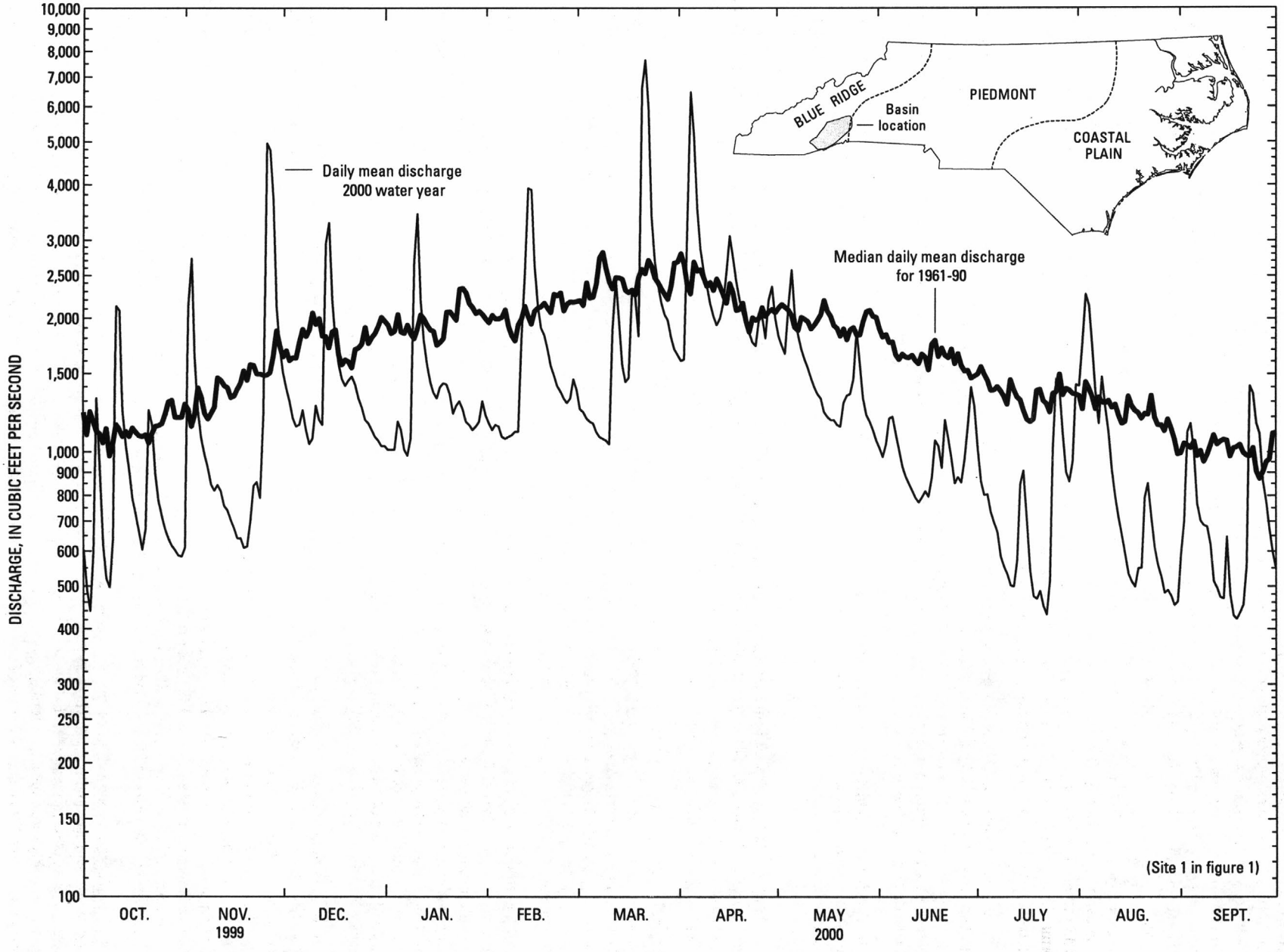


Figure 8.--Daily mean discharge for 2000 water year and median daily mean discharge for 1961-90 water years for French Broad River at Asheville (03451500).

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^2drainage 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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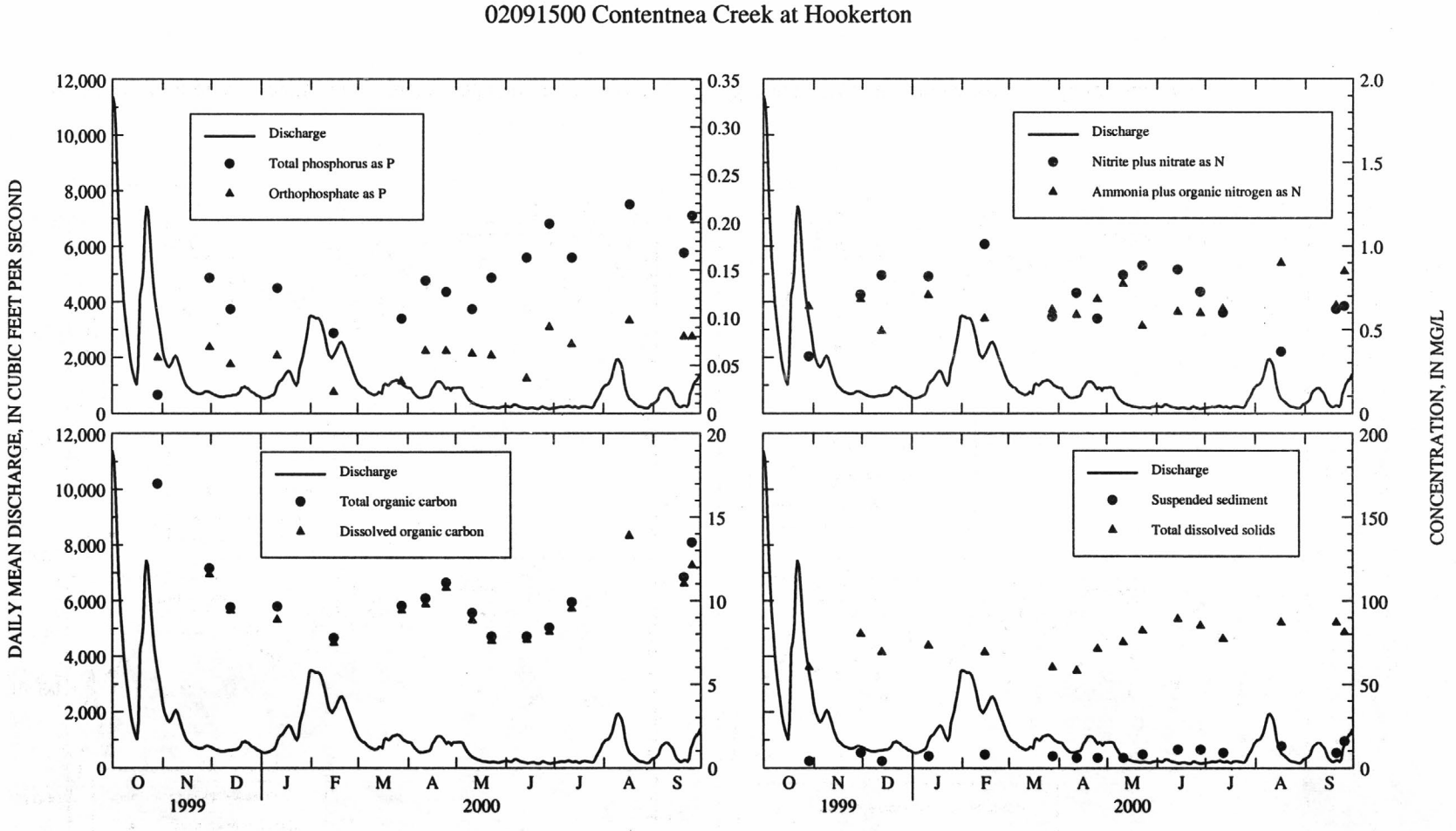


Figure 9a.--Concentration of selected constituents and daily mean discharge for Contentnea Creek at Hookerton during the 2000 water year.

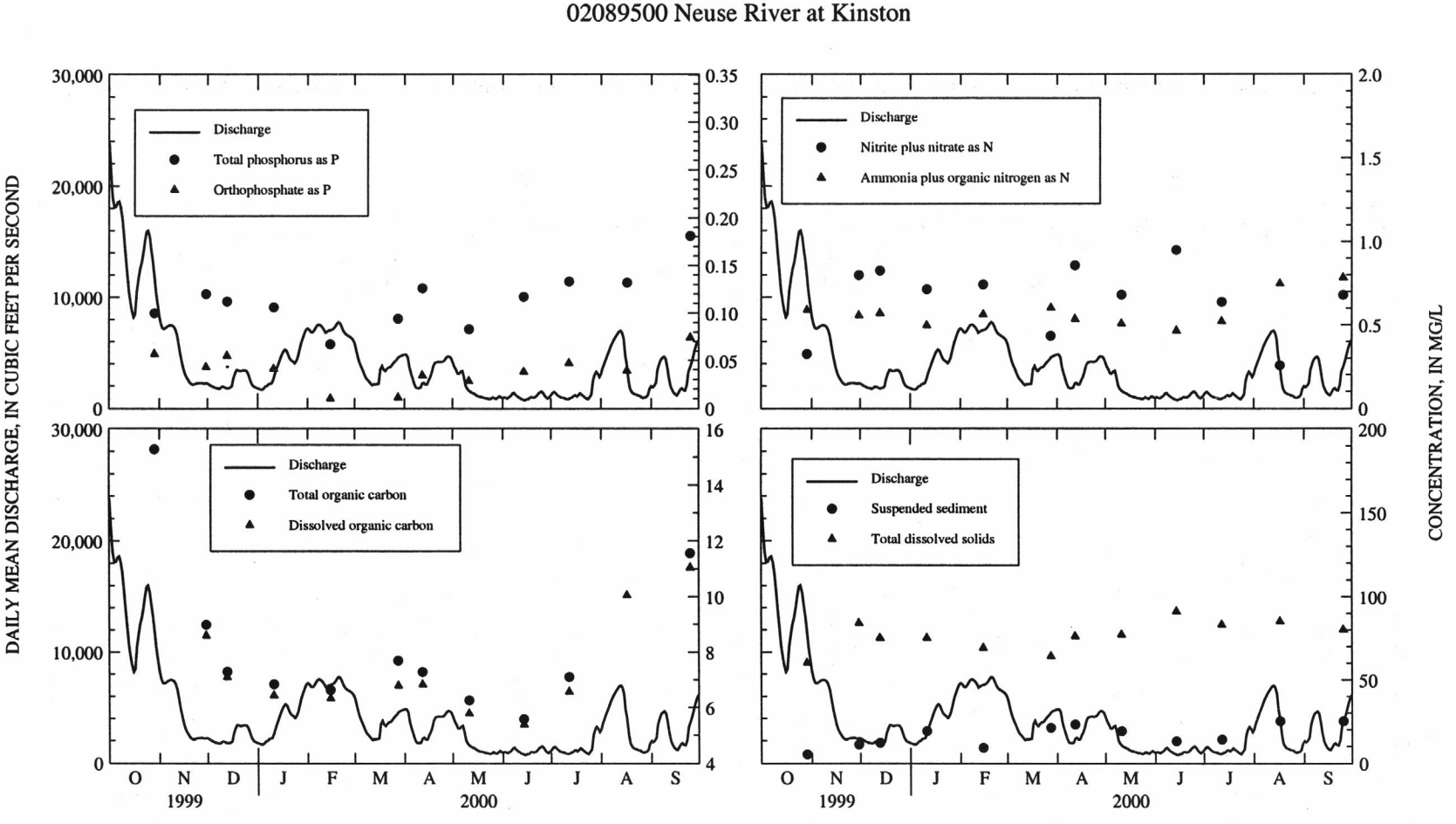


Figure 9b.--Concentration of selected constituents and daily mean discharge for Neuse River at Kinston during the 2000 water year.

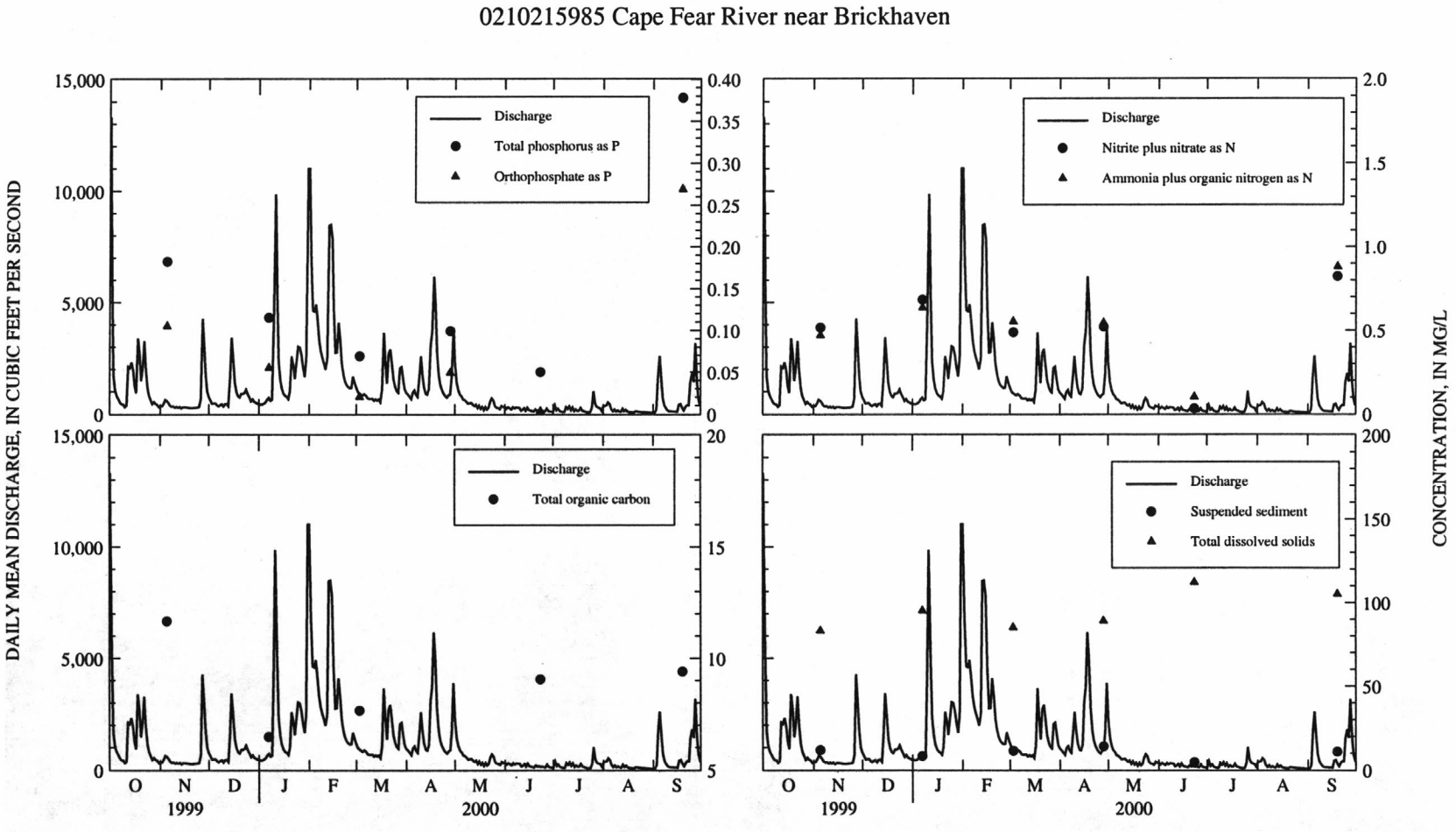


Figure 9c.--Concentration of selected constituents and daily mean discharge for Cape Fear River near Brickhaven during the 2000 water year.

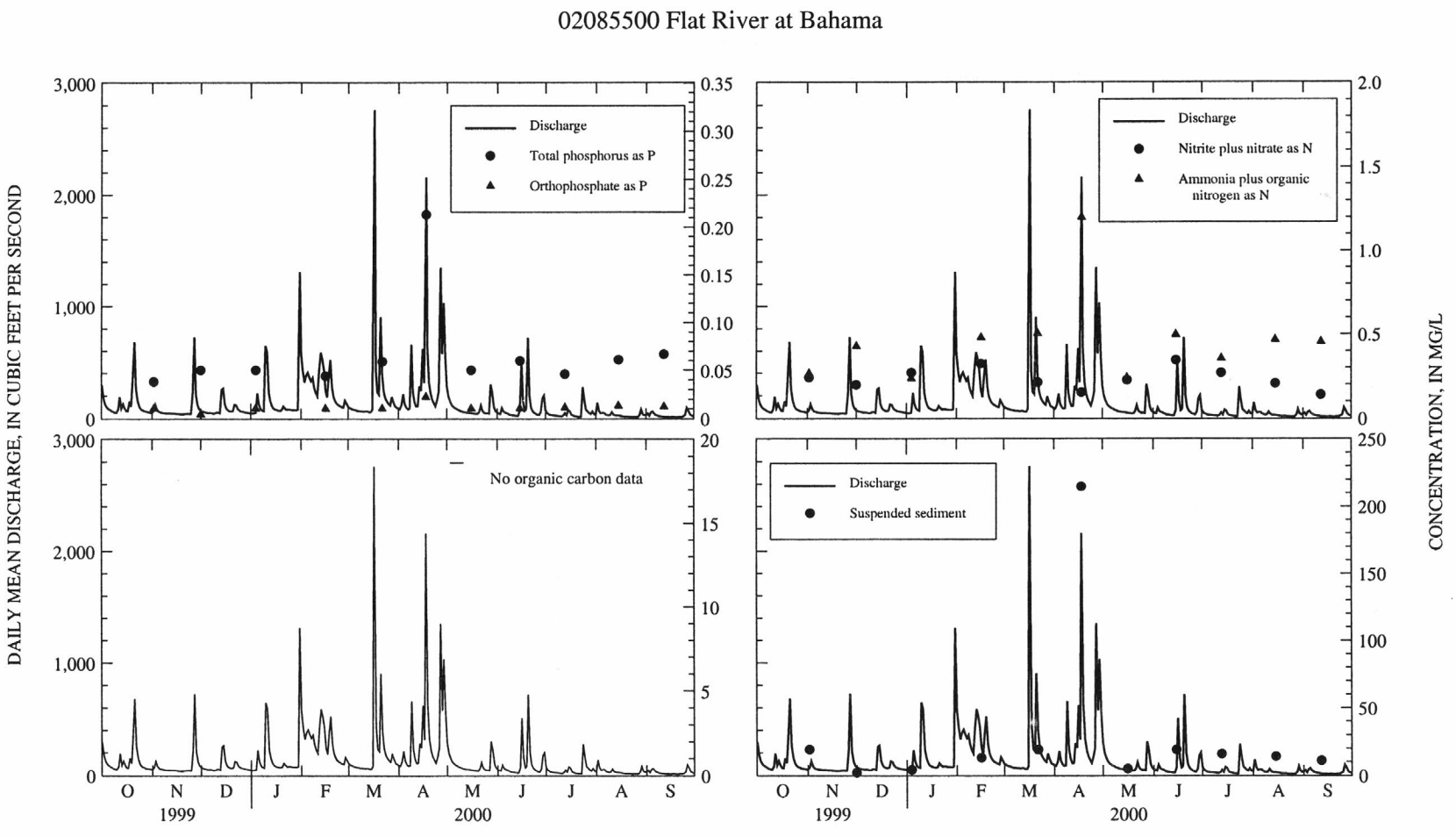


Figure 9d.--Concentration of selected constituents and daily mean discharge for Flat River at Bahama during the 2000 water year.

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 (figure 10).

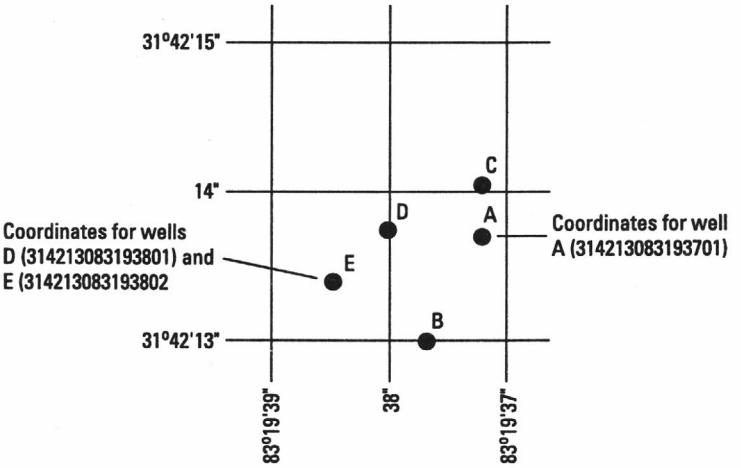


Figure 10.--System for numbering miscellaneous sites and wells.

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

Data Presentation--Continued

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

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

Station manuscript

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

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

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

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

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

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

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

Data Presentation--Continued

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:

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

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.

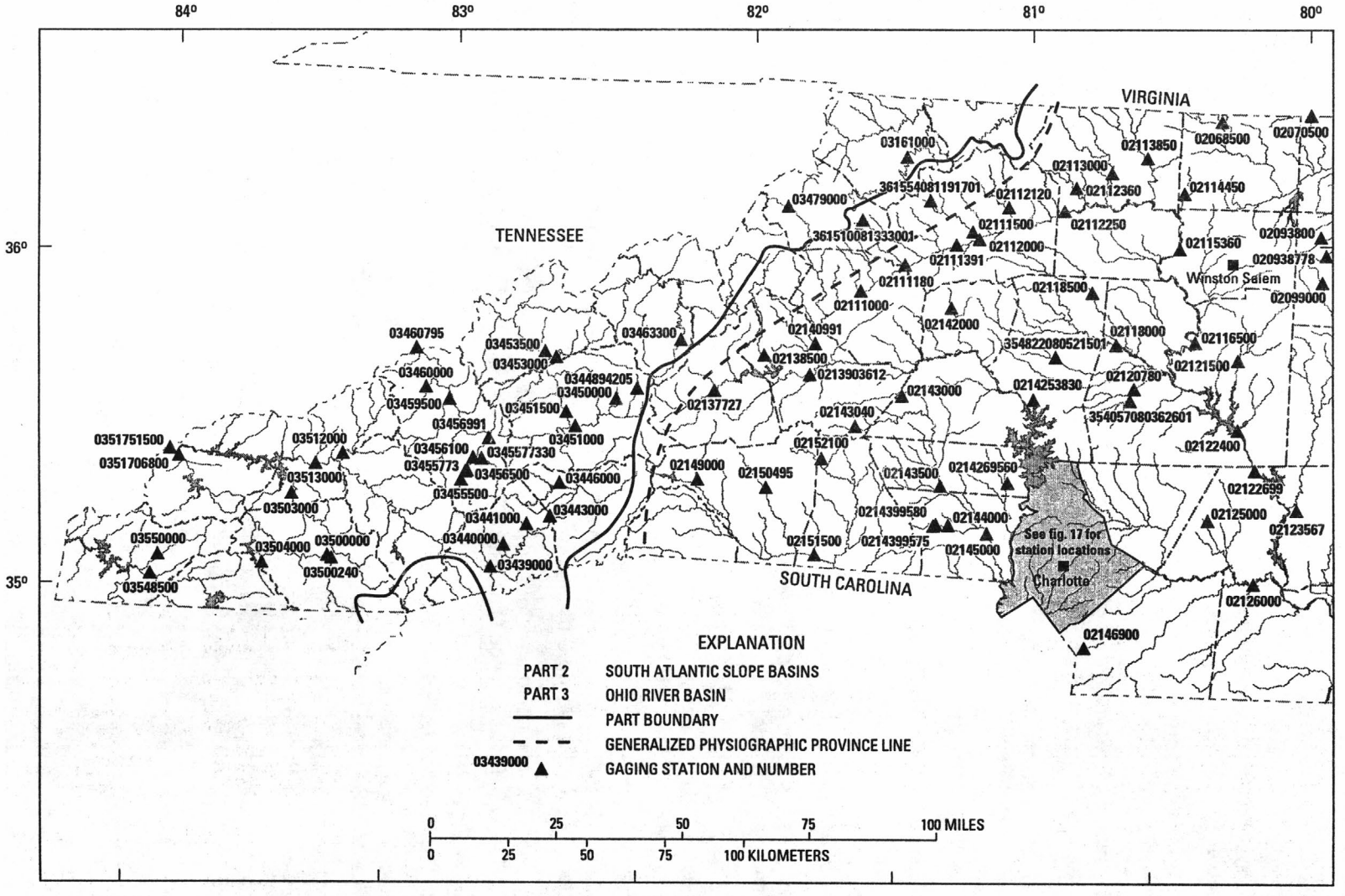


Figure 11.--Locations of gaging stations in western North Carolina.

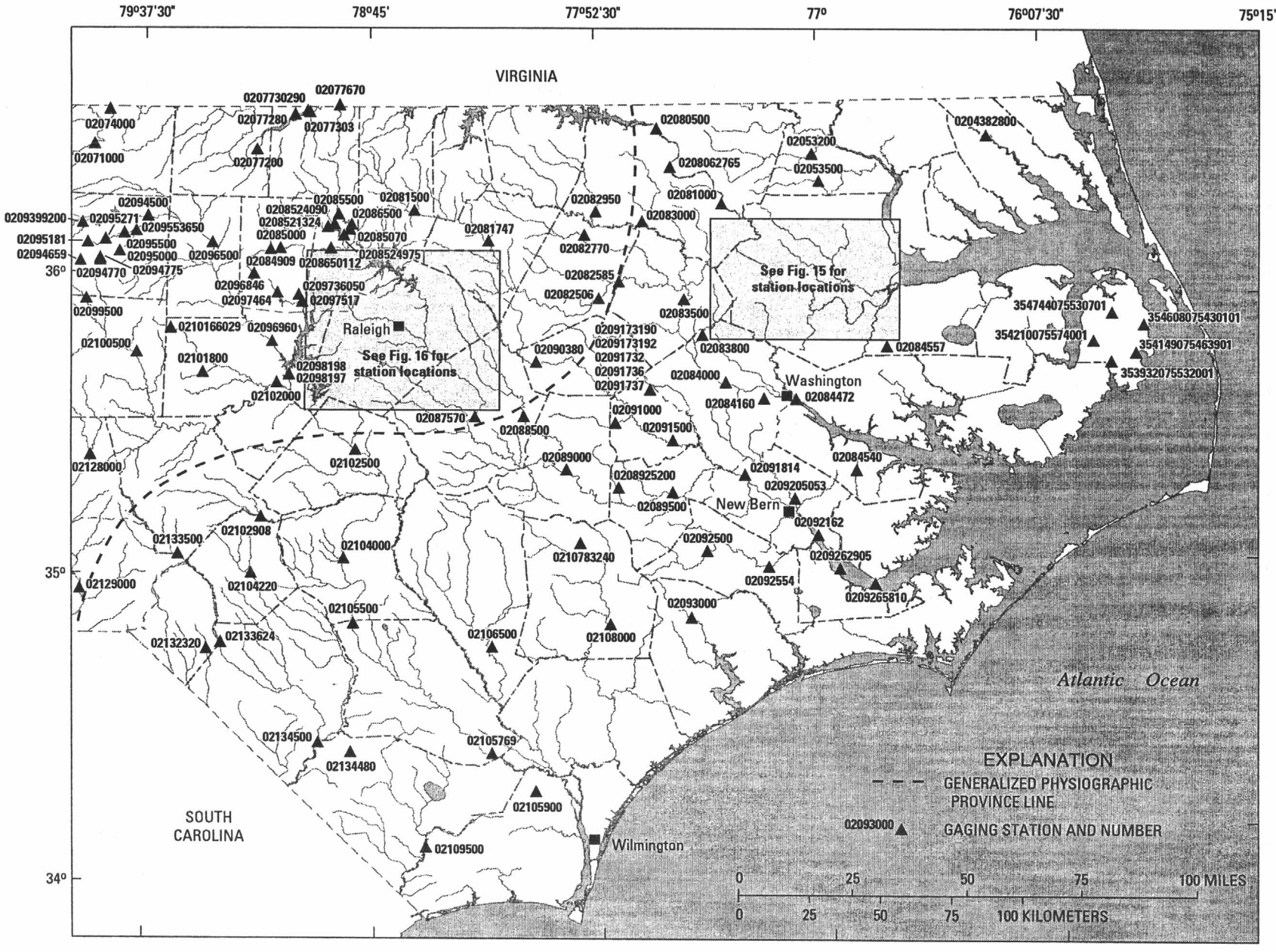


Figure 12.--Locations of gaging stations in eastern North Carolina.

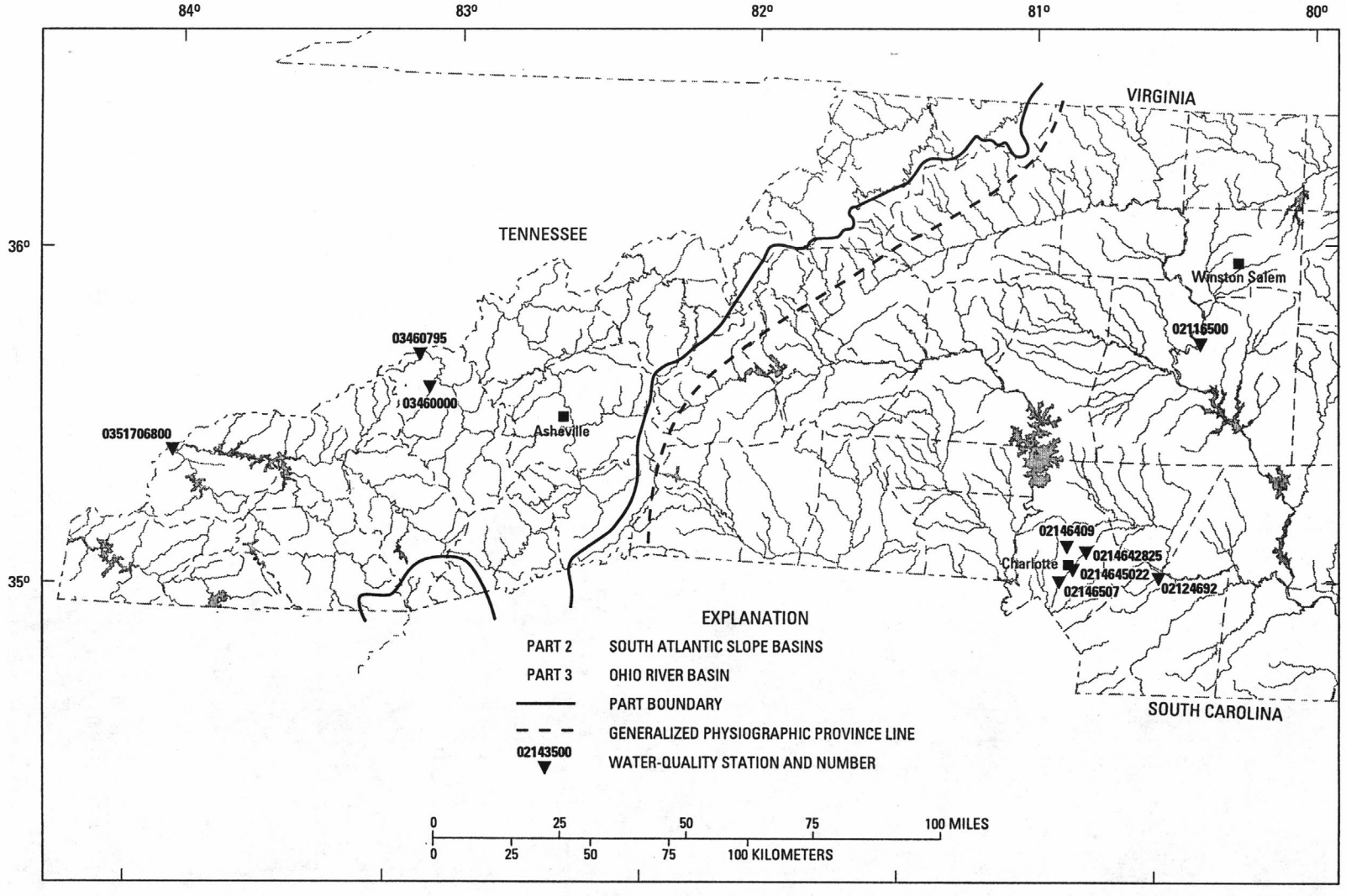


Figure 13.--Locations of water-quality stations in western North Carolina.

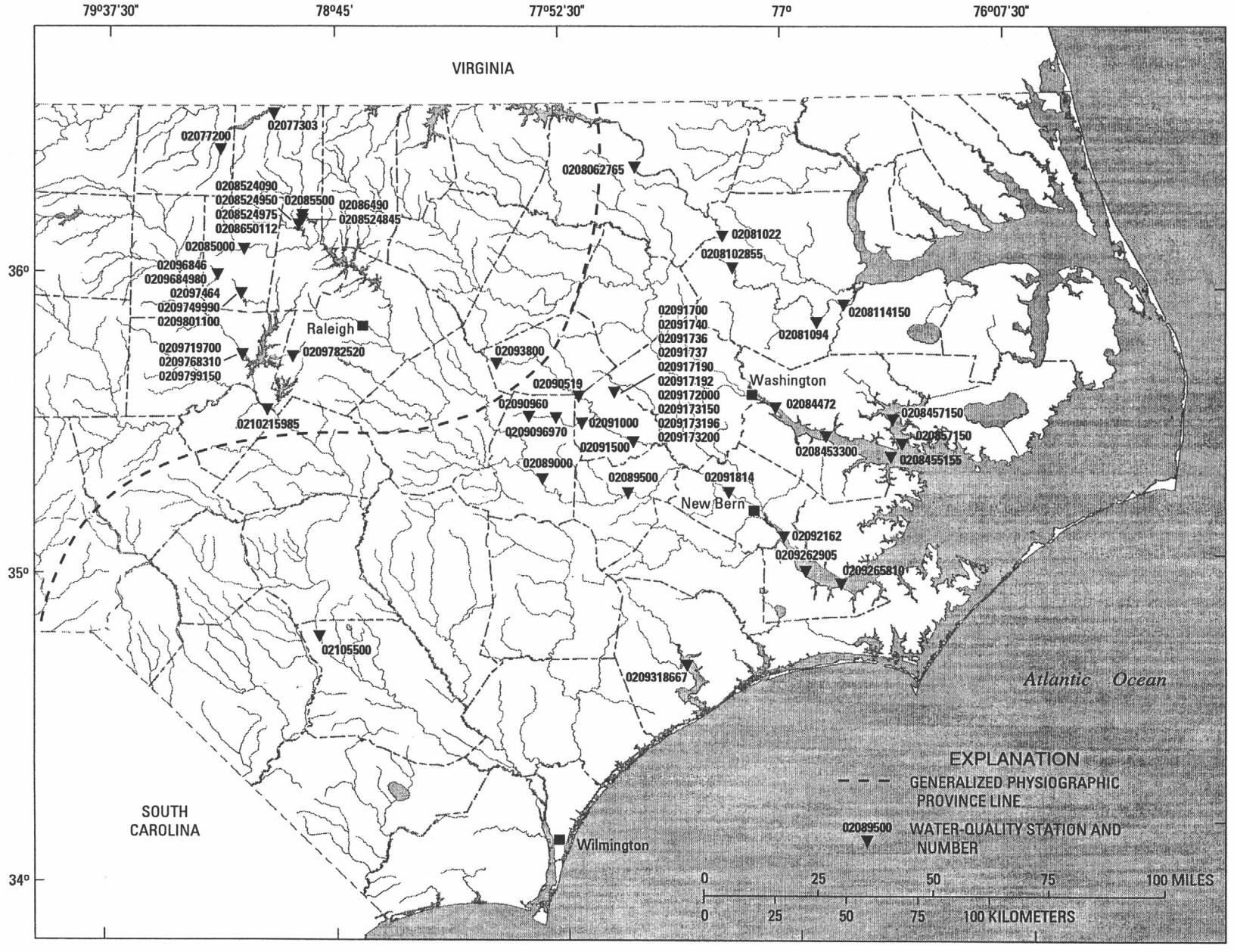
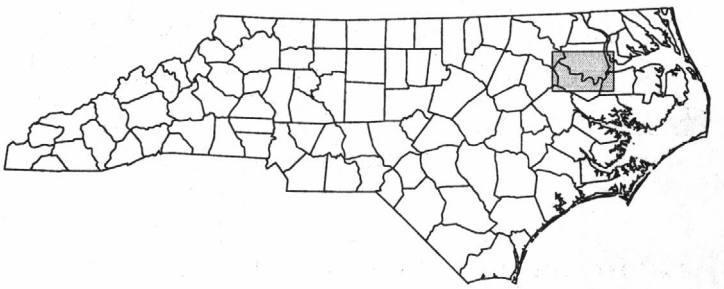


Figure 14.--Locations of water-quality stations in eastern North Carolina.



LOCATION OF SITES IN BERTIE AND MARTIN COUNTIES, NORTH CAROLINA

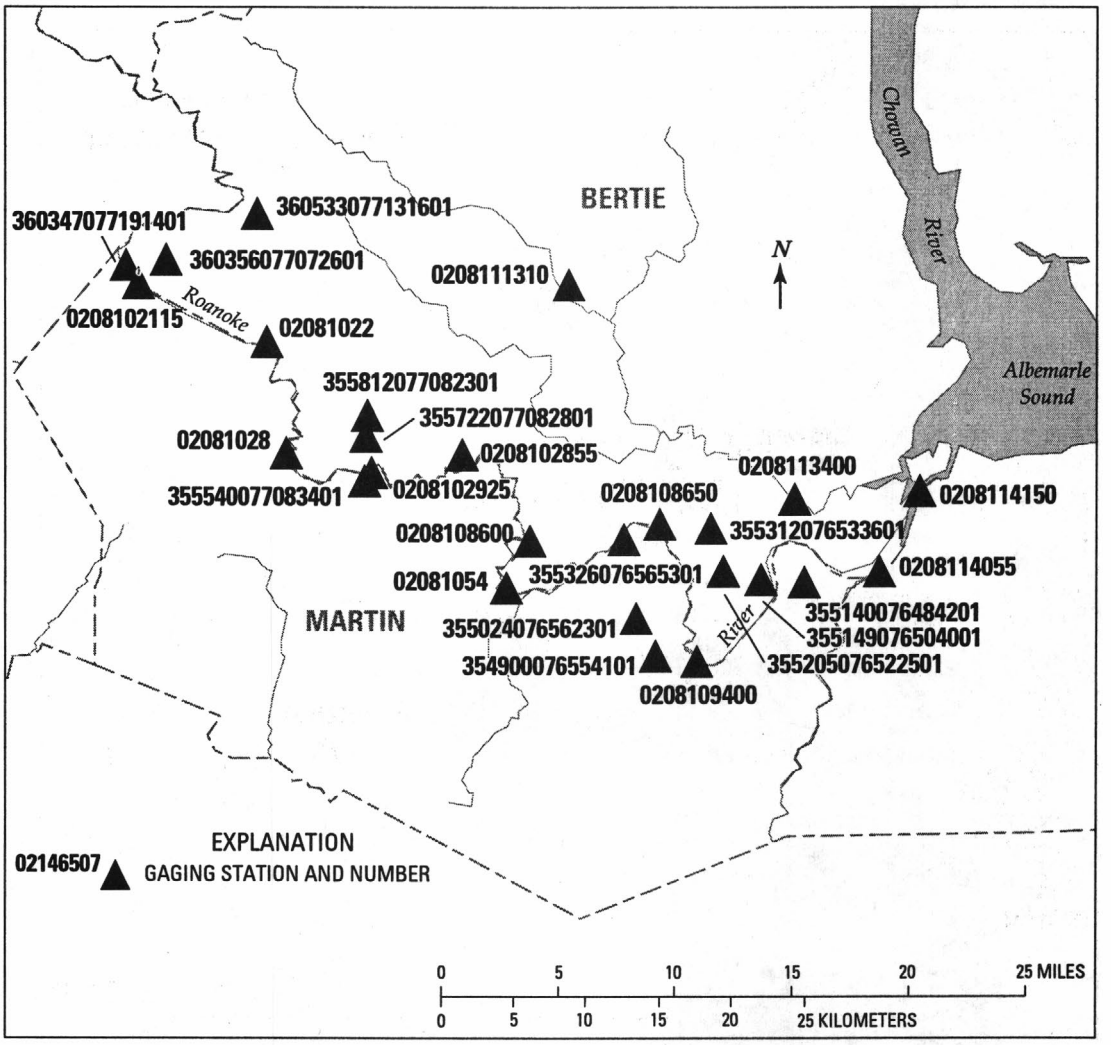
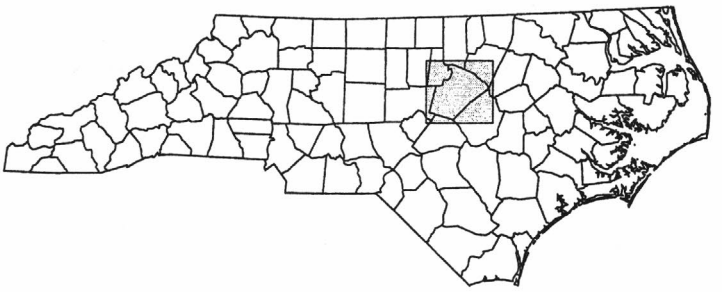


Figure 15.--Locations of gaging stations in Bertie and Martin Counties, North Carolina.



LOCATION OF SITES IN AND AROUND WAKE COUNTY, NORTH CAROLINA

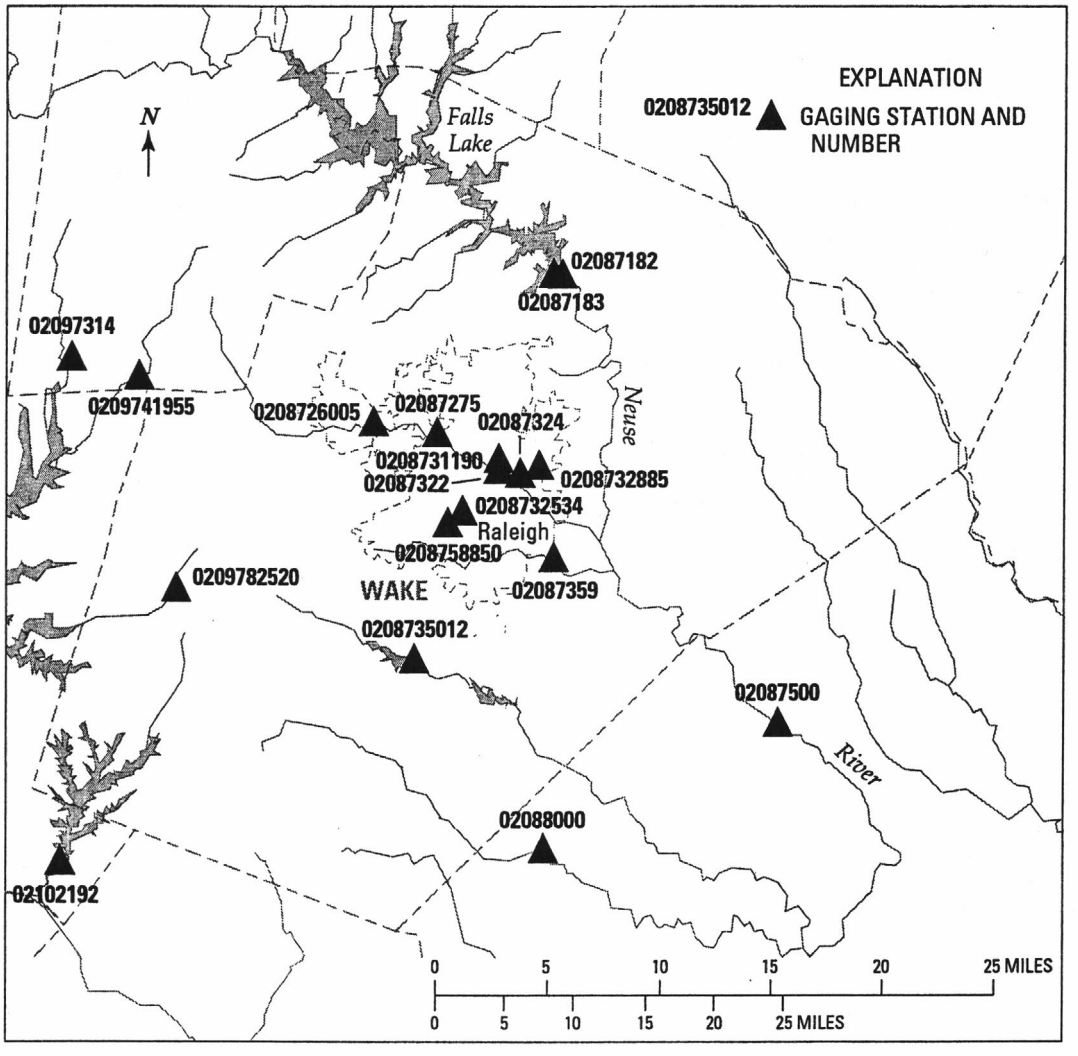


Figure 16.--Locations of gaging stations in and around Wake County, North Carolina.



LOCATION OF SITES IN AND AROUND MECKLENBURG COUNTY, NORTH CAROLINA

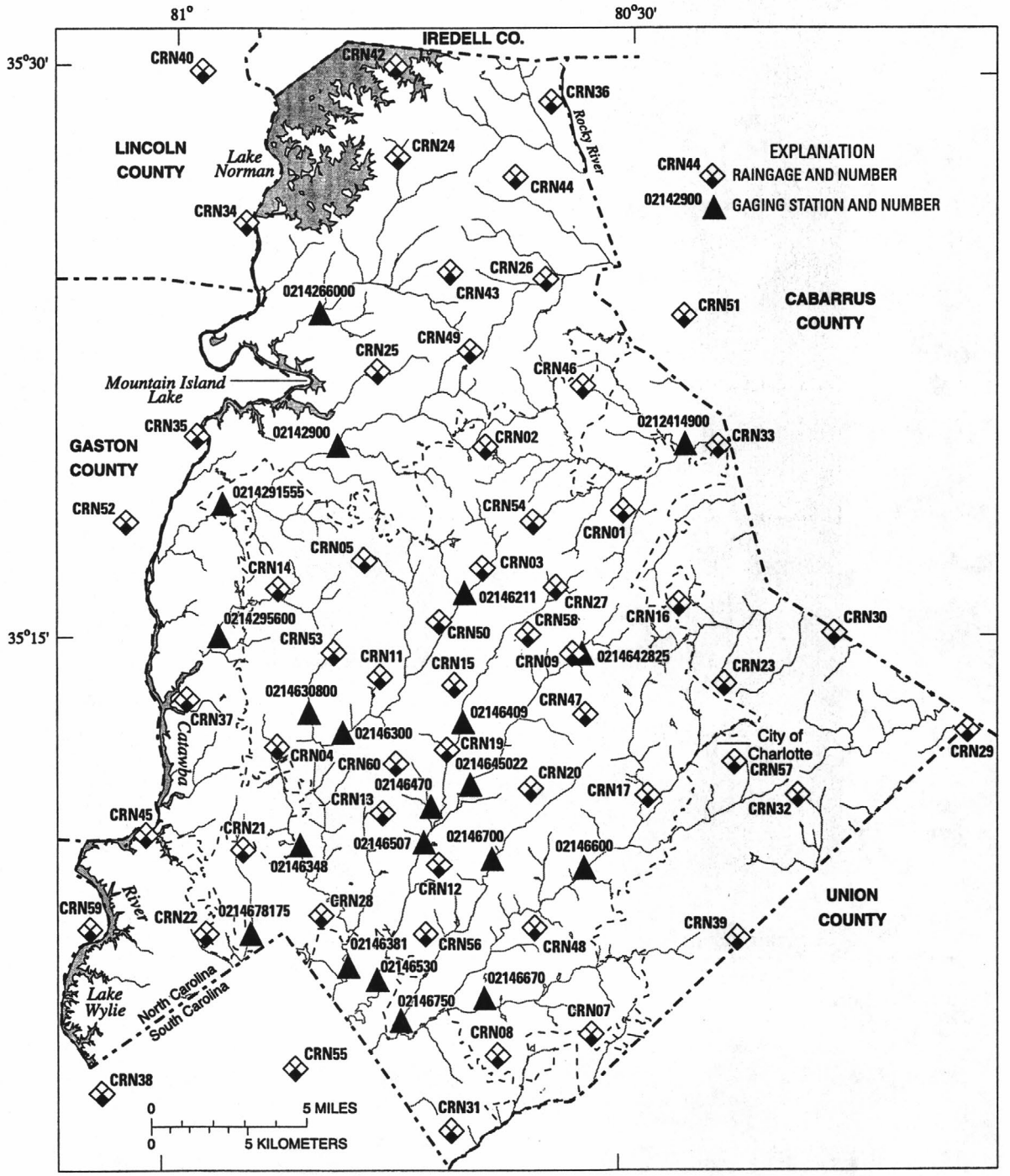
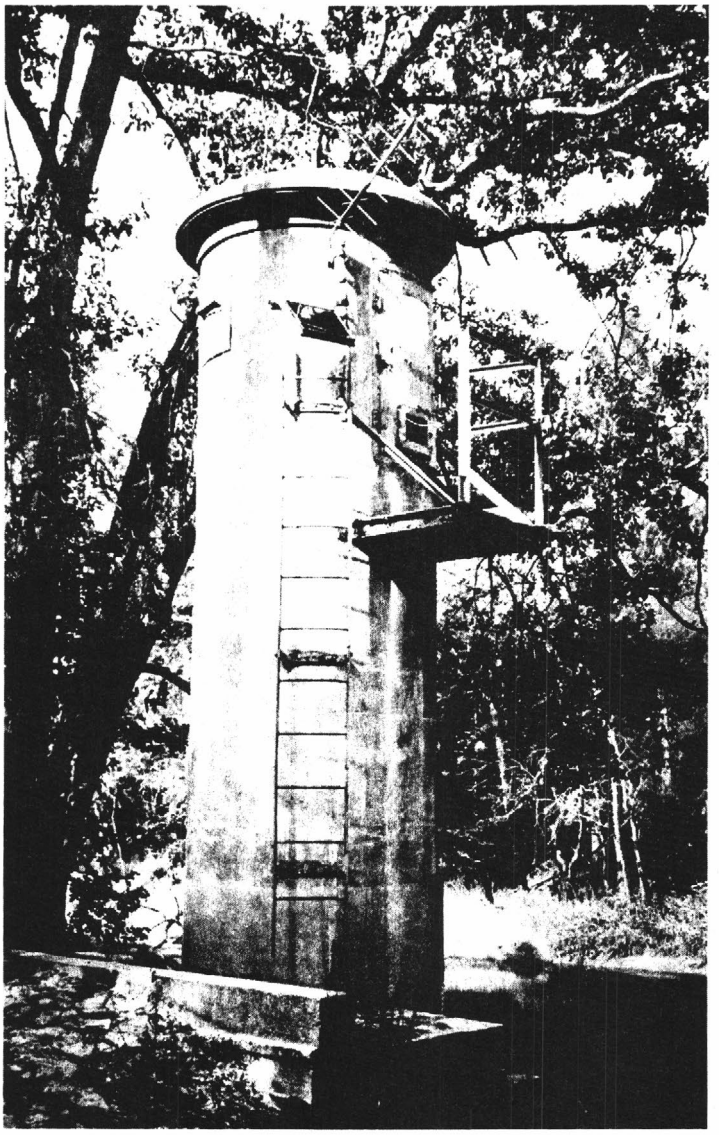


Figure 17.--Locations of gaging stations in and around Mecklenburg County, North Carolina.



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

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC

LOCATION.--Lat 36°25'18", long 76°20'34", Camden County, Hydrologic Unit 03010205, at bridge on US Highway 17, 1 mi below Newland Canal and 2 mi southwest of South Mills.

DRAINAGE AREA.--Approximately 64.0 mi^2.

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

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

REMARKS.--Records fair.

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

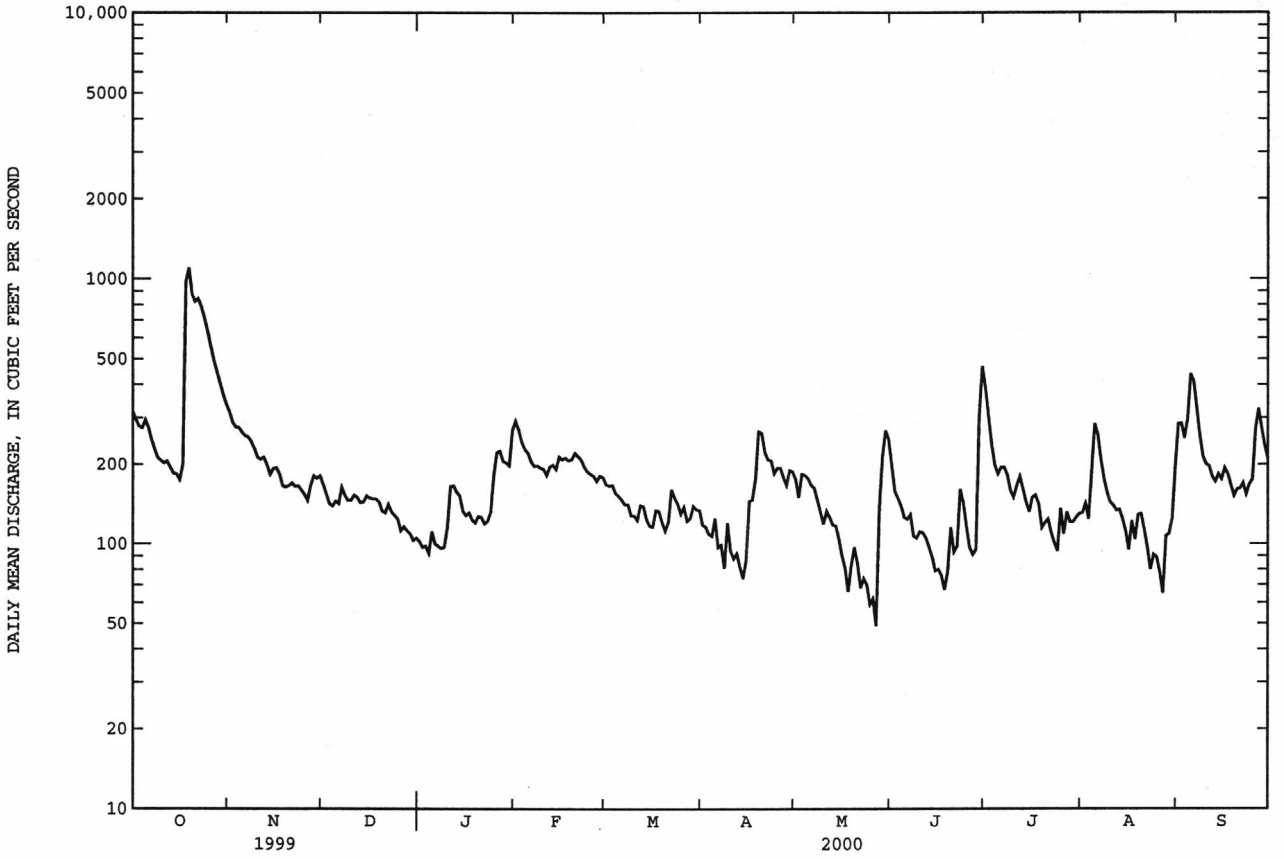
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	316	168	102	292	168	118	176	198	389	131	285
2	295	289	155	97	270	166	116	150	158	304	142	286
3	279	277	142	98	243	167	109	184	149	238	124	252
4	275	276	139	92	228	156	107	182	139	199	188	297
5	295	265	145	111	221	152	125	177	126	184	285	439
6	276	257	142	100	205	147	97	167	124	195	260	411
7	248	254	164	98	197	141	99	163	129	195	209	322
8	228	244	153	96	198	141	81	147	107	182	177	256
9	212	229	146	97	194	128	120	132	105	159	157	214
10	207	213	146	116	192	128	94	119	111	150	144	201
11	202	209	153	165	182	123	88	133	110	166	140	197
12	206	213	150	166	196	140	92	126	105	180	134	180
13	195	199	143	157	199	139	82	118	97	161	135	172
14	185	183	144	152	192	124	74	117	89	144	124	184
15	184	193	152	133	214	117	87	104	79	132	112	176
16	175	194	149	128	209	116	145	90	80	150	95	194
17	199	184	148	131	212	134	147	81	76	153	122	184
18	976	166	148	123	207	133	177	66	67	142	104	167
19	1100	164	144	120	209	121	267	83	79	115	129	152
20	876	166	133	127	221	112	263	97	115	120	130	161
21	823	170	131	126	215	121	223	84	93	124	113	162
22	843	165	141	119	209	161	209	68	98	110	97	170
23	785	166	132	122	196	150	207	74	161	101	80	154
24	713	160	128	132	188	142	185	70	143	94	91	168
25	636	154	124	182	184	130	194	59	116	136	89	175
26	561	146	112	222	181	138	194	62	97	109	78	271
27	495	167	116	225	173	122	179	49	91	132	65	325
28	448	181	112	206	181	125	167	137	95	121	107	275
29	406	177	109	203	179	139	190	215	304	121	109	236
30	367	181	103	198	---	135	188	269	468	126	125	210
31	338	---	105	270	---	134	---	249	---	130	197	---
TOTAL	13345	6158	4277	4414	5987	4250	4424	3948	3909	4962	4193	6876
MEAN	430	205	138	142	206	137	147	127	130	160	135	229
MAX	1100	316	168	270	292	168	267	269	468	389	285	439
MIN	175	146	103	92	173	112	74	49	67	94	65	152
CFSM	6.73	3.21	2.16	2.22	3.23	2.14	2.30	1.99	2.04	2.50	2.11	3.58
IN.	7.76	3.58	2.49	2.57	3.48	2.47	2.57	2.29	2.27	2.88	2.44	4.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	135	89.2	97.7	152	216	176	158	108	57.4	85.0	71.6	208
MAX	430	205	172	189	367	277	183	127	130	160	172	588
(WY)	2000	2000	1997	1998	1998	1998	1998	2000	2000	2000	1996	1999
MIN	13.3	13.6	18.2	107	110	101	126	75.7	15.2	19.2	15.6	25.2
(WY)	1999	1999	1996	1996	1999	1999	1997	1999	1999	1999	1997	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	60635.56		66743			
ANNUAL MEAN	166		182		129	
HIGHEST ANNUAL MEAN					182	2000
LOWEST ANNUAL MEAN					109	1999
HIGHEST DAILY MEAN	1290	Sep 19	1100	Oct 19	1290	Sep 19 1999
LOWEST DAILY MEAN	-20	Jul 1	49	May 27	-80	Aug 27 1998
ANNUAL SEVEN-DAY MINIMUM	3.1	Jun 25	67	May 21	-6.1	Aug 22 1998
INSTANTANEOUS PEAK FLOW			1250	Oct 18	1330	Sep 19 1999
INSTANTANEOUS PEAK STAGE			9.12	Oct 19	9.85	Sep 19 1999
INSTANTANEOUS LOW FLOW			-23	May 25	-240	Sep 6 1996
10 PERCENT EXCEEDS	378		275		239	
50 PERCENT EXCEEDS	111		153		117	
90 PERCENT EXCEEDS	13		97		15	

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC--Continued



354744075530701 CG #1 MILLTAIL CREEK AT MILLTAIL ROAD

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

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

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

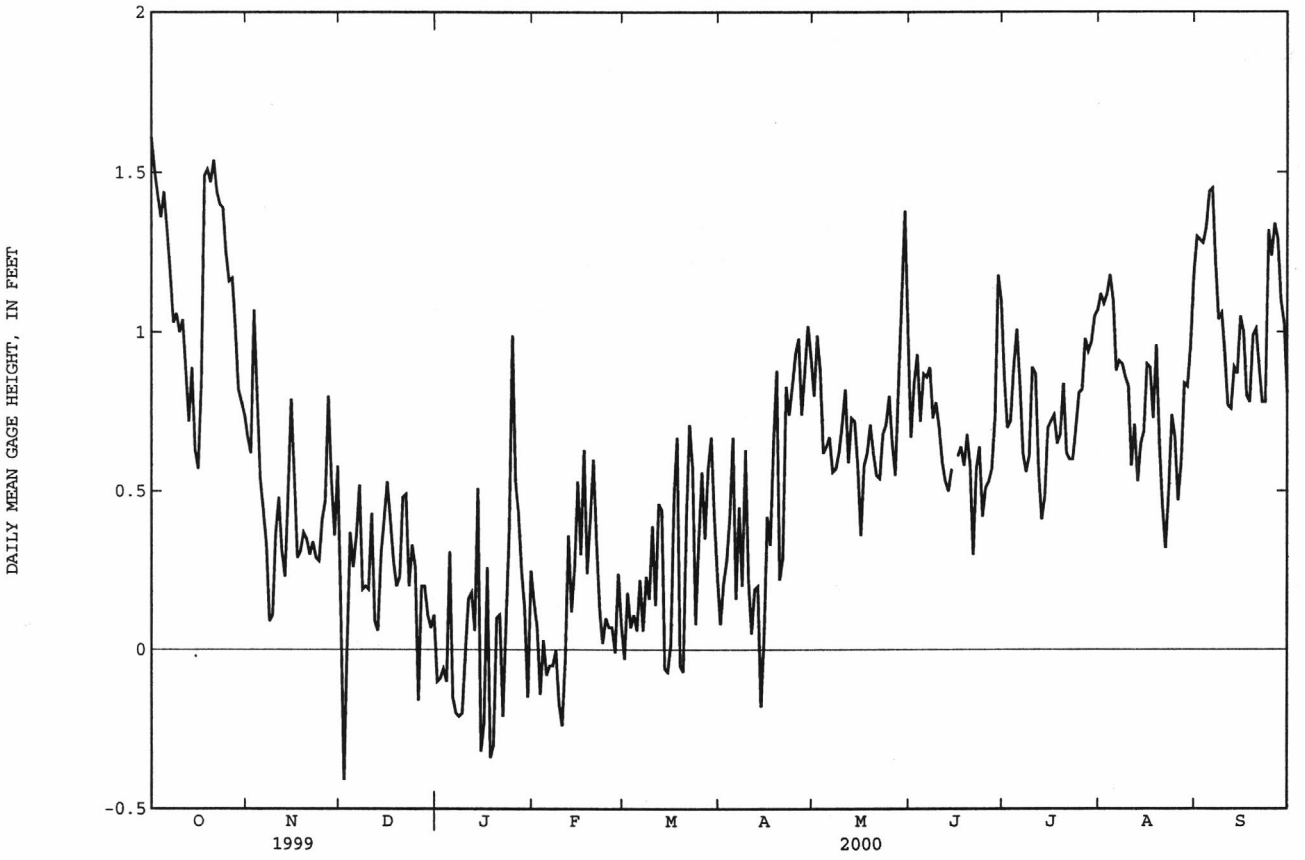
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 1.98 ft, Sept. 22, 1999, minimum, -0.52 ft, Jan. 15, 18, 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	1.61	.67	.12	-.10	.15	-.03	.08	.80	.67	.86	1.12	1.30
2	1.51	.62	-.41	-.09	.07	.18	.21	.99	.84	.70	1.09	1.29
3	1.43	1.07	.01	-.06	-.14	.07	.28	.88	.93	.72	1.12	1.28
4	1.36	.80	.37	-.10	.03	.11	.42	.62	.72	.89	1.18	1.33
5	1.44	.54	.26	.31	-.08	.06	.67	.64	.87	1.01	1.10	1.44
6	1.32	.44	.36	-.15	-.05	.22	.16	.67	.86	.84	.88	1.45
7	1.18	.33	.52	-.20	-.05	.06	.45	.56	.89	.62	.91	1.22
8	1.03	.09	.19	-.21	.00	.23	.20	.57	.73	.56	.90	1.04
9	1.06	.11	.20	-.20	-.17	.16	.63	.62	.78	.61	.86	1.06
10	1.00	.37	.19	-.01	-.24	.39	.22	.71	.70	.89	.83	.93
11	1.04	.48	.43	.16	-.03	.14	.05	.82	.59	.87	.58	.77
12	.88	.31	.09	.18	.36	.46	.19	.59	.53	.57	.71	.76
13	.72	.23	.06	.06	.12	.44	.20	.73	.50	.41	.53	.89
14	.89	.49	.30	.51	.26	-.06	-.18	.72	.57	.48	.65	.87
15	.63	.79	.41	-.32	.53	-.07	.04	.58	---	.70	.69	1.05
16	.57	.55	.53	-.23	.30	.02	.42	.36	.61	.72	.90	1.00
17	.84	.29	.41	.26	.63	.48	.33	.58	.64	.74	.89	.80
18	1.49	.31	.28	-.34	.24	.67	.65	.62	.58	.65	.73	.78
19	1.51	.37	.20	-.30	.41	-.05	.88	.71	.68	.68	.96	.99
20	1.47	.35	.23	.10	.60	-.07	.22	.62	.58	.84	.65	1.01
21	1.54	.30	.48	.11	.34	.41	.29	.55	.30	.62	.45	.89
22	1.44	.34	.49	-.21	.13	.71	.83	.54	.57	.60	.32	.78
23	1.40	.29	.20	.09	.02	.57	.74	.68	.64	.60	.50	.78
24	1.39	.28	.33	.38	.10	.08	.83	.71	.42	.70	.74	1.32
25	1.25	.41	.26	.99	.07	.34	.93	.80	.51	.81	.67	1.24
26	1.16	.47	-.16	.53	.07	.56	.98	.65	.53	.82	.47	1.34
27	1.17	.80	.20	.43	-.01	.35	.74	.55	.57	.98	.59	1.29
28	1.01	.53	.20	.25	.24	.57	.88	.84	.73	.94	.84	1.10
29	.82	.36	.11	.13	.08	.67	1.02	1.11	1.18	.97	.83	1.03
30	.78	.58	.07	-.15	---	.42	.92	1.38	1.10	1.05	.96	.81
31	.74	---	.11	.25	---	.23	---	1.00	---	1.07	1.18	---
MEAN	1.15	.45	.23	.07	.14	.27	.48	.72	---	.76	.80	1.06
MAX	1.61	1.07	.53	.99	.63	.71	1.02	1.38	---	1.07	1.18	1.45
MIN	.57	.09	-.41	-.34	-.24	-.07	-.18	.36	---	.41	.32	.76

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



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

WATER-QUALITY RECORDS

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
SEP						
08...	0922	.2	4.0	93	24.0	16.3
08...	0928	.1	4.0	87	24.0	16.0
08...	0929	.1	4.0	88	24.0	15.0
08...	0931	.1	4.1	72	24.1	14.0
08...	0932	.1	3.9	91	24.0	13.0
08...	0933	.1	4.0	84	24.0	12.0
08...	0934	.1	4.1	71	24.1	11.0
08...	0936	.1	4.0	73	24.1	10.0
08...	0937	.1	3.9	86	24.1	9.00
08...	0939	.1	4.0	82	24.1	7.99
08...	0940	.1	3.9	83	24.1	7.00
08...	0941	.1	3.8	92	24.1	5.99
08...	0943	.1	3.9	89	24.1	5.00
08...	0944	.1	3.9	92	24.1	4.00
08...	0946	.1	3.9	92	24.1	3.00
08...	0947	.1	3.8	93	24.1	2.00
08...	0948	.1	3.9	93	24.1	1.00

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

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
OCT						
05...	1607	1.4	3.7	128	18.9	17.7
05...	1609	1.2	3.7	128	18.9	17.0
05...	1610	1.2	3.7	128	18.9	16.0
05...	1612	1.1	3.7	130	18.9	15.0
05...	1614	1.1	3.7	130	18.9	14.0
05...	1615	1.0	4.1	162	19.3	13.0
05...	1617	1.0	4.2	145	19.4	12.0
05...	1619	.9	4.2	168	19.3	11.0
05...	1621	.9	4.2	162	19.4	10.0
05...	1623	.9	4.1	119	19.4	9.00
05...	1625	.9	4.1	124	19.4	8.00
05...	1626	.9	4.1	113	19.4	7.00
05...	1627	.9	4.2	108	19.4	6.00
05...	1629	.9	4.1	120	19.4	5.00
05...	1631	.9	4.1	116	19.4	4.00
05...	1633	.9	4.2	103	19.4	3.00
05...	1635	.9	4.2	102	19.4	2.00
05...	1637	.9	4.2	102	19.4	1.00
DEC						
14...	1348	.9	3.8	148	10.2	14.6
14...	1350	.9	3.7	149	9.7	13.9
14...	1351	.9	3.7	148	9.8	13.0
14...	1353	.9	3.7	150	9.7	12.0
14...	1354	.9	3.7	149	9.6	11.0
14...	1355	.9	3.7	148	9.6	9.90
14...	1356	1.0	3.7	142	10.2	8.90
14...	1357	1.2	3.8	148	10.5	8.00
14...	1358	1.4	3.9	154	10.8	7.00
14...	1400	1.4	3.9	156	10.9	6.00
14...	1401	1.5	4.0	158	10.9	5.00
14...	1402	1.6	4.0	160	11.2	4.00
14...	1403	1.6	4.0	165	11.2	3.00
14...	1404	1.6	4.0	156	11.1	2.00
14...	1405	1.5	4.0	152	11.1	1.00

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

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

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
FEB						
29...	1327	4.3	3.5	117	9.4	15.2
29...	1329	3.9	3.6	120	9.8	14.0
29...	1330	3.7	3.5	118	9.5	13.0
29...	1331	3.7	3.8	126	10.6	12.0
29...	1332	3.4	3.6	119	10.1	11.0
29...	1334	3.3	3.8	122	10.6	9.99
29...	1335	3.3	3.9	124	10.8	8.99
29...	1336	3.1	3.7	120	10.2	7.99
29...	1337	3.1	3.8	123	10.4	6.99
29...	1339	2.9	3.9	112	11.1	5.98
29...	1340	2.9	3.9	126	10.9	4.99
29...	1341	2.8	3.9	122	10.8	3.99
29...	1343	2.6	3.8	115	10.9	3.00
29...	1344	2.5	3.9	115	11.1	2.00
29...	1346	2.2	3.8	87	11.5	1.00
JUL						
11...	1432	.1	3.4	116	21.2	14.7
11...	1434	.1	3.5	116	21.2	14.0
11...	1435	.1	3.5	115	21.3	13.0
11...	1436	.1	3.5	114	21.3	12.0
11...	1437	.1	3.5	112	21.4	11.0
11...	1438	.1	3.6	111	21.5	10.0
11...	1439	.1	3.7	105	22.1	8.97
11...	1441	.1	4.0	95	22.8	7.98
11...	1442	.1	4.0	92	23.0	7.00
11...	1443	.1	4.2	95	23.6	5.98
11...	1444	.1	4.3	99	24.0	4.97
11...	1445	.1	4.3	102	24.0	4.00
11...	1447	.1	4.4	105	24.2	2.98
11...	1448	.1	4.5	119	24.3	1.98
11...	1449	.1	4.5	125	24.7	.97
AUG						
29...	0725	.3	3.8	104	21.3	16.6
29...	0727	.3	3.8	105	21.3	16.0
29...	0729	.3	3.8	104	21.4	15.0
29...	0730	.2	3.8	104	21.4	14.0
29...	0731	.2	3.8	104	21.4	13.0
29...	0733	.2	4.3	95	22.2	12.0
29...	0734	.1	4.2	75	22.2	11.0
29...	0736	.2	4.2	79	22.2	9.99
29...	0737	.1	4.2	62	22.2	9.00
29...	0738	.2	4.4	102	22.3	7.98
29...	0740	.1	4.2	71	22.2	7.00
29...	0741	.1	4.2	62	22.2	5.99
29...	0742	.1	4.2	59	22.2	4.99
29...	0743	.2	4.3	66	22.3	3.99
29...	0744	.2	4.3	64	22.3	2.99
29...	0746	.1	4.3	70	22.2	1.99
29...	0747	.1	4.3	69	22.3	.99

354210075574001 CG #2 WHIPPING CREEK AT WHIPPING CREEK ROAD

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

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

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

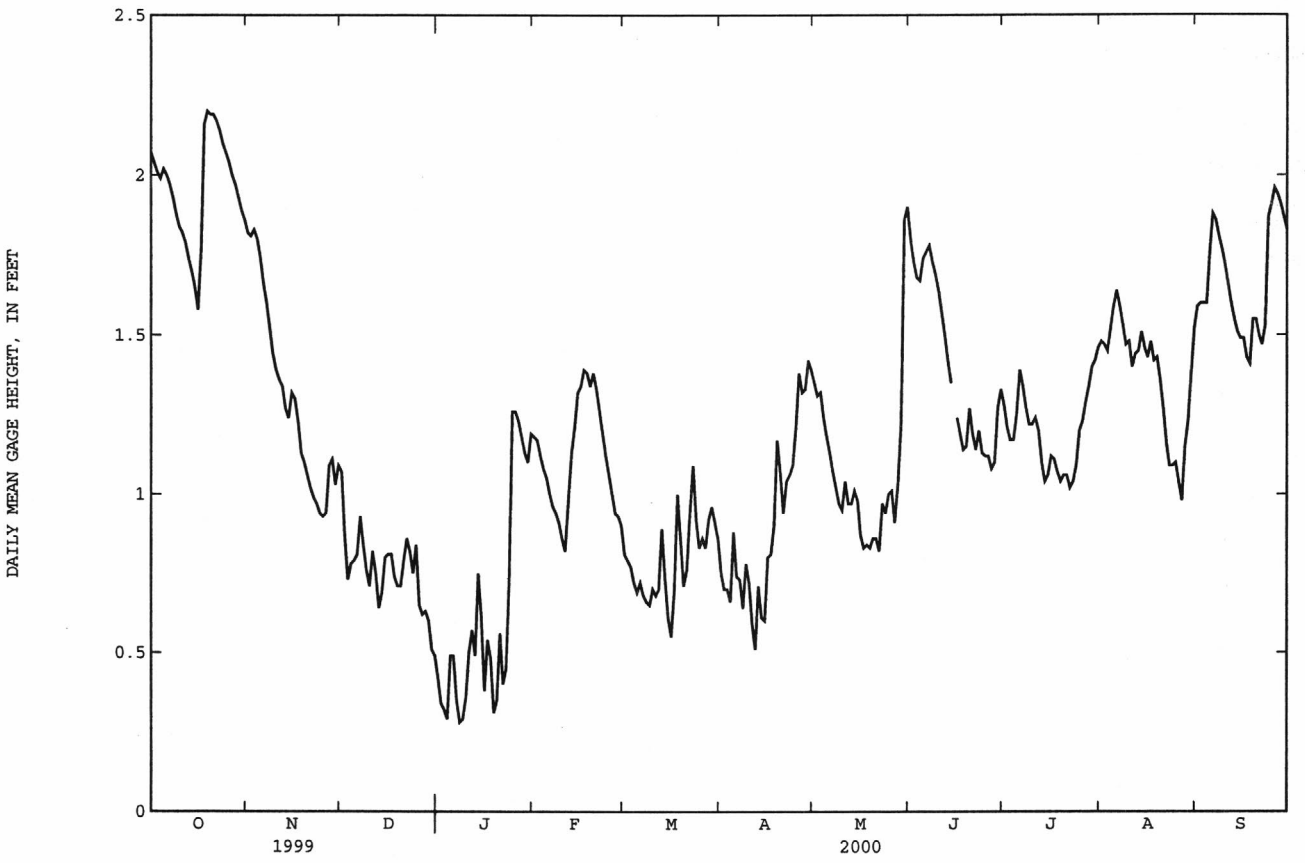
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 2.39 ft, Sept. 22, 1999; minimum, 0.23 ft, Jan. 20, 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	2.07	1.82	1.07	.42	1.18	.81	.75	1.35	1.80	1.28	1.48	1.59
2	2.04	1.81	.87	.34	1.17	.79	.70	1.31	1.73	1.21	1.47	1.60
3	2.01	1.83	.73	.32	1.12	.77	.70	1.32	1.68	1.17	1.45	1.60
4	1.99	1.80	.78	.29	1.08	.72	.66	1.24	1.67	1.17	1.52	1.60
5	2.02	1.74	.79	.49	1.05	.69	.88	1.18	1.74	1.25	1.59	1.76
6	2.00	1.66	.81	.49	1.00	.72	.74	1.13	1.76	1.39	1.64	1.88
7	1.97	1.60	.93	.35	.96	.68	.73	1.07	1.78	1.34	1.59	1.86
8	1.93	1.52	.84	.28	.94	.66	.64	1.02	1.73	1.27	1.53	1.81
9	1.88	1.44	.76	.29	.91	.65	.78	.97	1.69	1.22	1.47	1.77
10	1.84	1.39	.71	.36	.86	.70	.72	.95	1.64	1.22	1.48	1.72
11	1.82	1.36	.82	.50	.82	.68	.59	1.04	1.57	1.24	1.40	1.66
12	1.79	1.34	.75	.57	.98	.70	.51	.97	1.50	1.20	1.44	1.60
13	1.74	1.27	.64	.49	1.13	.89	.71	.97	1.42	1.10	1.45	1.55
14	1.70	1.24	.69	.75	1.21	.74	.61	1.01	1.35	1.04	1.51	1.51
15	1.65	1.32	.80	.61	1.32	.61	.60	.98	---	1.06	1.46	1.49
16	1.58	1.30	.81	.38	1.34	.55	.80	.87	1.24	1.12	1.43	1.49
17	1.77	1.23	.81	.54	1.39	.70	.81	.83	1.19	1.11	1.48	1.43
18	2.16	1.13	.74	.48	1.38	1.00	.90	.84	1.14	1.07	1.42	1.41
19	2.20	1.10	.71	.31	1.34	.86	1.17	.83	1.15	1.04	1.43	1.55
20	2.19	1.06	.71	.35	1.38	.71	1.07	.86	1.27	1.06	1.36	1.55
21	2.19	1.02	.79	.56	1.33	.76	.94	.86	1.19	1.06	1.27	1.50
22	2.17	.99	.86	.40	1.26	.94	1.04	.82	1.14	1.02	1.16	1.47
23	2.14	.97	.82	.45	1.19	1.09	1.06	.97	1.20	1.04	1.09	1.53
24	2.10	.94	.75	.74	1.12	.92	1.09	.94	1.13	1.09	1.09	1.87
25	2.07	.93	.84	1.26	1.06	.83	1.21	1.00	1.12	1.20	1.10	1.91
26	2.04	.94	.65	1.26	1.00	.86	1.38	1.01	1.12	1.23	1.04	1.96
27	2.00	1.09	.62	1.23	.94	.83	1.32	.91	1.08	1.29	.98	1.94
28	1.97	1.11	.63	1.18	.93	.92	1.33	1.03	1.10	1.34	1.15	1.91
29	1.93	1.03	.60	1.13	.90	.96	1.42	1.22	1.27	1.40	1.23	1.87
30	1.89	1.09	.51	1.10	---	.91	1.39	1.86	1.33	1.42	1.38	1.83
31	1.86	---	.49	1.19	---	.86	---	1.90	---	1.46	1.52	---
MEAN	1.96	1.30	.75	.62	1.11	.79	.91	1.07	---	1.20	1.37	1.67
MAX	2.20	1.83	1.07	1.26	1.39	1.09	1.42	1.90	---	1.46	1.64	1.96
MIN	1.58	.93	.49	.28	.82	.55	.51	.82	---	1.02	.98	1.41

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



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

WATER-QUALITY RECORDS

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
SEP						
08...	1234	.6	4.0	169	23.8	8.49
08...	1235	.3	4.0	166	23.8	8.00
08...	1237	.2	4.0	146	23.9	6.00
08...	1239	.2	4.0	164	23.7	4.00
08...	1240	.1	4.0	146	23.9	1.99
08...	1242	.1	4.0	146	23.9	.99

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

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
OCT						
05...	1507	2.2	4.4	156	19.4	7.86
05...	1509	1.7	4.0	168	19.4	7.00
05...	1510	1.5	4.0	153	19.4	6.00
05...	1512	1.3	3.8	174	19.5	5.00
05...	1514	1.2	3.9	165	19.4	4.00
05...	1516	1.2	4.0	177	19.5	3.00
05...	1518	1.1	4.0	169	19.4	2.00
05...	1520	1.0	4.0	177	19.5	1.00
DEC						
14...	1623	.7	4.1	192	11.0	6.30
14...	1624	.6	4.1	190	10.9	6.00
14...	1625	.5	4.1	195	10.9	5.00
14...	1627	.5	4.1	120	10.7	3.90
14...	1628	.5	4.1	120	10.7	3.00
14...	1629	.4	4.1	161	10.7	2.00
14...	1630	.4	4.1	149	10.7	1.00
FEB						
01...	1058	4.1	4.0	179	3.3	6.70
01...	1100	4.1	4.0	169	3.2	5.90
01...	1101	4.0	3.9	146	3.1	4.90
01...	1102	4.0	3.9	144	3.1	3.90
01...	1104	4.2	4.0	103	2.6	2.90
01...	1105	4.0	3.9	116	2.9	1.90
01...	1106	3.9	3.9	134	3.0	.90
29...	1617	1.9	3.8	134	11.6	7.08
29...	1619	1.5	3.8	133	11.6	7.06
29...	1620	1.4	3.8	137	11.6	5.99
29...	1621	1.3	3.8	128	11.5	4.99
29...	1622	1.4	3.8	111	11.6	3.99
29...	1624	1.3	3.8	132	11.6	3.00
29...	1625	1.2	3.8	111	11.3	1.98
29...	1626	1.3	3.8	112	11.4	.98
JUL						
11...	1643	.8	3.8	156	23.1	7.29
11...	1645	.6	3.8	156	23.0	6.96
11...	1646	.4	3.8	157	23.0	5.97
11...	1647	.3	3.8	156	23.0	4.98
11...	1648	.3	3.9	133	23.5	3.97
11...	1650	.2	4.0	108	24.7	2.98
11...	1651	.2	3.9	122	24.7	1.99
11...	1652	.2	4.0	114	24.5	.98
AUG						
29...	0834	.3	4.1	84	22.0	6.97
29...	0835	.2	4.0	101	21.9	5.96
29...	0837	.2	4.1	106	22.1	5.00
29...	0838	.2	4.0	116	22.2	3.99
29...	0840	.2	4.0	132	22.3	3.00
29...	0841	.2	4.1	117	22.2	2.00
29...	0843	.2	4.0	112	22.2	.99



USGS gaging station at Tar River.

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

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

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

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

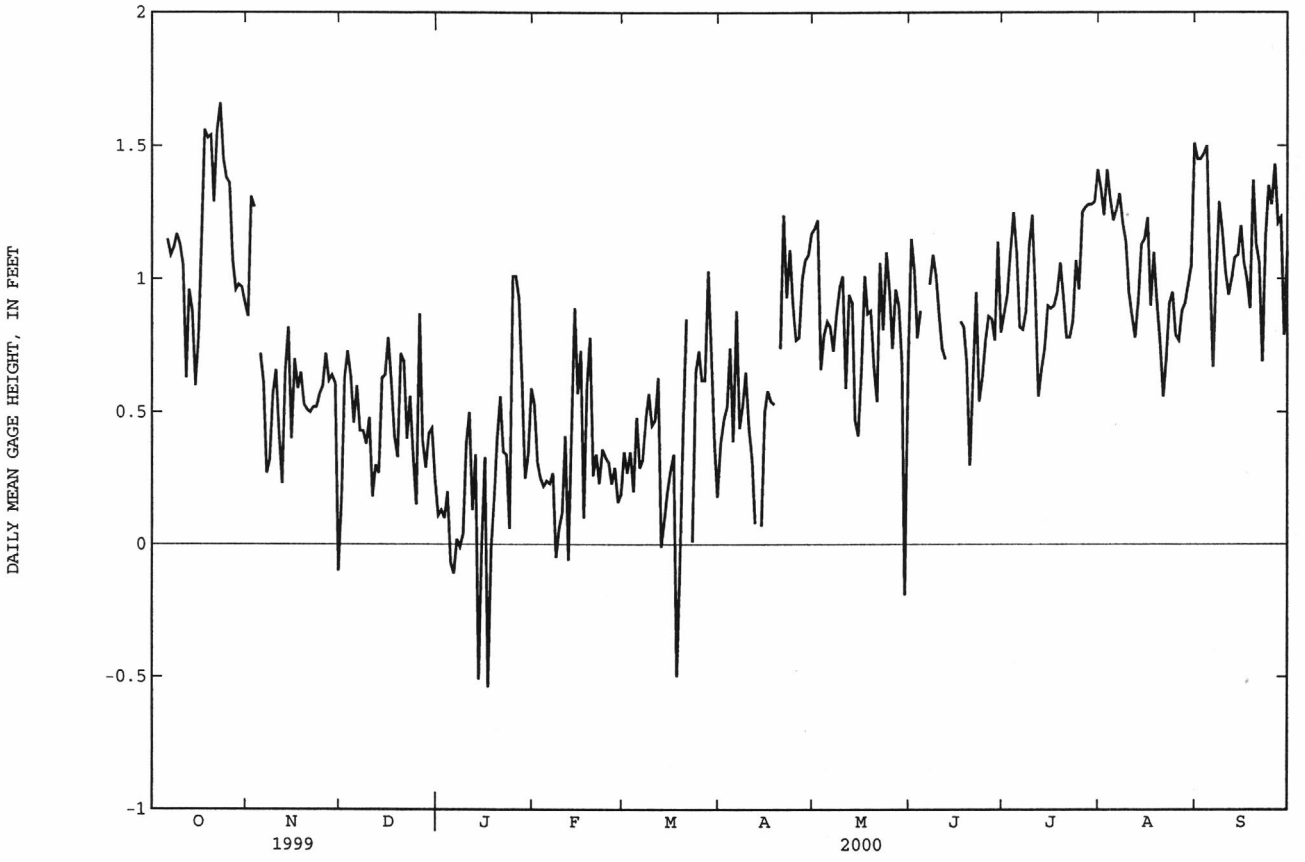
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negarive numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 1.94 ft, Oct. 23, 1999; minimum not determined.

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	---	.86	.17	.11	.53	.35	.38	1.19	1.15	.87	1.34	1.45
2	---	1.31	.63	.13	.31	.27	.47	1.22	1.03	.94	1.24	1.45
3	---	1.27	.73	.10	.25	.35	.52	.66	.78	1.10	1.41	1.47
4	---	---	.64	.20	.22	.20	.74	.79	.88	1.25	1.30	1.50
5	---	.72	.46	-.07	.24	.48	.39	.84	---	1.10	1.22	1.04
6	1.15	.61	.60	-.11	.23	.29	.88	.82	---	.82	1.26	.67
7	1.09	.27	.43	.02	.27	.32	.44	.73	.98	.81	1.32	1.01
8	1.12	.32	.43	-.01	-.05	.47	.52	.87	1.09	.88	1.21	1.29
9	1.17	.57	.38	.04	.06	.57	.65	.97	1.01	1.12	1.14	1.18
10	1.13	.66	.48	.38	.12	.45	.44	1.01	.86	1.24	.95	1.03
11	1.05	.42	.18	.50	.41	.47	.32	.59	.74	.95	.86	.94
12	.63	.23	.30	.13	-.06	.63	.08	.94	.70	.56	.78	1.00
13	.96	.66	.27	.34	.44	-.01	---	.91	---	.66	.92	1.08
14	.88	.82	.63	-.51	.89	.09	.07	.47	.79	.74	1.13	1.09
15	.60	.40	.64	.00	.57	.20	.50	.41	---	.90	1.15	1.20
16	.78	.70	.78	.33	.73	.28	.58	.66	---	.89	1.23	1.06
17	1.14	.59	.61	-.54	.10	.34	.54	1.01	.84	.90	.90	1.00
18	1.56	.65	.41	-.02	.60	-.50	.53	.87	.82	.95	1.10	.89
19	1.53	.53	.33	.17	.78	-.09	---	.88	.68	1.06	.91	1.37
20	1.54	.51	.72	.40	.26	.44	.74	.67	.30	.93	.76	1.13
21	1.29	.50	.69	.56	.34	.85	1.24	.54	.63	.78	.56	1.06
22	1.56	.52	.40	.35	.23	---	.93	1.06	.95	.78	.71	.69
23	1.66	.52	.56	.34	.36	.01	1.11	.81	.54	.84	.91	1.16
24	1.45	.57	.33	.06	.33	.65	.91	1.10	.63	1.07	.95	1.35
25	1.38	.60	.15	1.01	.31	.73	.77	.95	.77	.96	.79	1.28
26	1.36	.72	.87	1.01	.23	.62	.78	.74	.86	1.25	.77	1.43
27	1.07	.62	.39	.93	.29	.62	1.00	.96	.85	1.27	.88	1.21
28	.96	.64	.29	.61	.16	1.03	1.07	.90	.77	1.28	.91	1.23
29	.98	.61	.42	.25	.19	.71	1.09	.68	1.14	1.28	.98	.79
30	.97	-.10	.44	.34	---	.38	1.17	-.19	.80	1.29	1.05	1.10
31	.91	---	.24	.59	---	.18	---	.67	---	1.41	1.51	---
MEAN	---	---	.47	.25	.32	---	---	.80	---	1.00	1.04	1.14
MAX	---	---	.87	1.01	.89	---	---	1.22	---	1.41	1.51	1.50
MIN	---	---	.15	-.54	-.06	---	---	-.19	---	.56	.56	.67

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



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

WATER-QUALITY RECORDS

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
SEP						
08...	1535	.5	3.5	370	25.3	2.02

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

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
OCT						
05...	0930	1.8	3.2	1090	19.7	.98
DEC						
15...	1004	4.6	3.4	602	11.7	1.50
MAR						
01...	1005	4.4	3.3	373	9.1	1.50
JUL						
12...	0845	.8	3.8	329	24.0	2.81
AUG						
29...	1309	.6	3.9	283	23.9	4.98
29...	1310	.4	3.9	285	23.9	4.00
29...	1312	.4	3.9	286	23.9	3.01
29...	1314	.4	3.9	288	24.0	2.00
29...	1315	.4	3.9	287	24.0	1.00



USGS gaging station at Broadneck Transect (site #1).

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

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

DRAINAGE AREA.--Indeterminate.

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

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

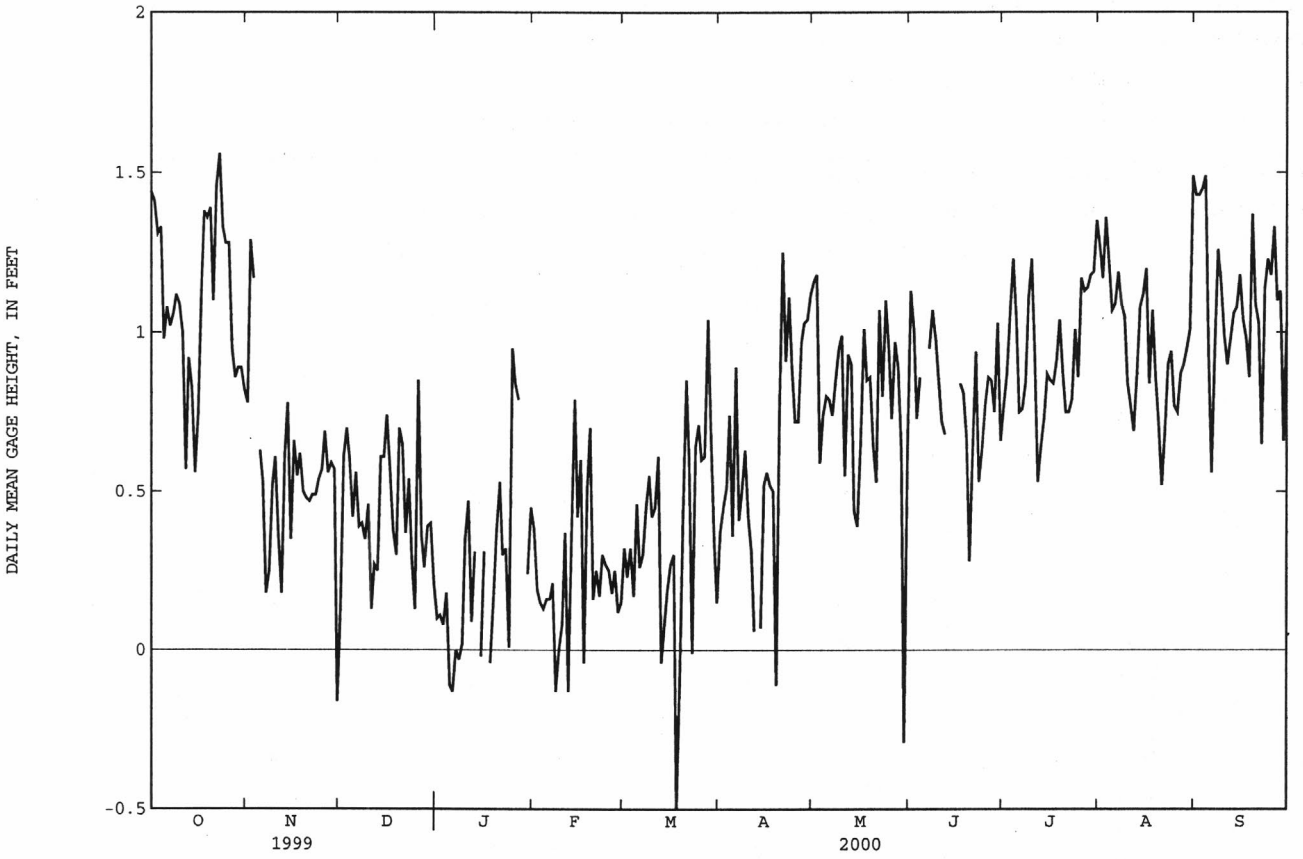
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.44	.78	.13	.10	.38	.32	.37	1.16	1.13	.77	1.27	1.43
2	1.41	1.29	.61	.11	.19	.23	.45	1.18	1.01	.87	1.17	1.43
3	1.31	1.17	.70	.08	.15	.32	.51	.59	.73	1.06	1.36	1.45
4	1.33	---	.60	.18	.13	.17	.74	.74	.86	1.23	1.22	1.49
5	.98	.63	.42	-.11	.16	.46	.36	.80	---	1.05	1.07	.93
6	1.08	.53	.56	-.13	.16	.26	.89	.79	---	.75	1.09	.56
7	1.02	.18	.39	.00	.21	.30	.41	.74	.95	.76	1.19	.96
8	1.06	.25	.40	-.03	-.13	.45	.50	.85	1.07	.84	1.09	1.26
9	1.12	.52	.35	.02	.00	.55	.63	.95	.98	1.11	1.05	1.15
10	1.09	.61	.46	.35	.08	.42	.42	.99	.84	1.23	.84	.99
11	1.00	.36	.13	.47	.37	.45	.31	.55	.72	.92	.77	.90
12	.57	.18	.27	.09	-.13	.61	.06	.93	.68	.53	.69	.98
13	.92	.62	.25	.31	.36	-.04	---	.90	---	.64	.87	1.06
14	.83	.78	.61	---	.79	.07	.07	.44	.78	.73	1.08	1.08
15	.56	.35	.61	-.02	.42	.19	.52	.39	---	.87	1.12	1.18
16	.75	.66	.74	.31	.60	.27	.56	.65	---	.85	1.20	1.04
17	1.10	.55	.57	---	-.04	.30	.52	1.01	.84	.84	.84	.98
18	1.38	.62	.38	-.04	.51	-.50	.50	.85	.81	.91	1.07	.86
19	1.36	.50	.30	.16	.70	-.10	-.11	.86	.67	1.04	.86	1.37
20	1.39	.48	.70	.38	.16	.43	.74	.65	.28	.88	.71	1.09
21	1.10	.47	.65	.53	.25	.85	1.25	.53	.62	.75	.52	1.03
22	1.46	.49	.37	.30	.17	.60	.91	1.07	.94	.75	.69	.65
23	1.56	.49	.54	.32	.30	-.01	1.11	.80	.53	.79	.90	1.14
24	1.33	.54	.29	.01	.27	.64	.89	1.10	.63	1.01	.94	1.23
25	1.28	.57	.13	.95	.25	.71	.72	.94	.77	.86	.77	1.18
26	1.28	.69	.85	.84	.18	.60	.72	.73	.86	1.17	.75	1.33
27	.95	.56	.36	.79	.25	.61	.97	.97	.85	1.13	.87	1.10
28	.86	.59	.26	---	.12	1.04	1.03	.89	.75	1.14	.90	1.13
29	.89	.57	.39	---	.15	.67	1.04	.63	1.03	1.18	.95	.66
30	.89	-.16	.40	.24	---	.35	1.12	-.29	.66	1.19	1.01	1.03
31	.82	---	.21	.45	---	.15	---	.63	---	1.35	1.49	---
MEAN	1.10	---	.44	---	.24	.37	---	.77	---	.94	.98	1.09
MAX	1.56	---	.85	---	.79	1.04	---	1.18	---	1.35	1.49	1.49
MIN	.56	---	.13	---	-.13	-.50	---	-.29	---	.53	.52	.56

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



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

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

DRAINAGE AREA.--Indeterminate.

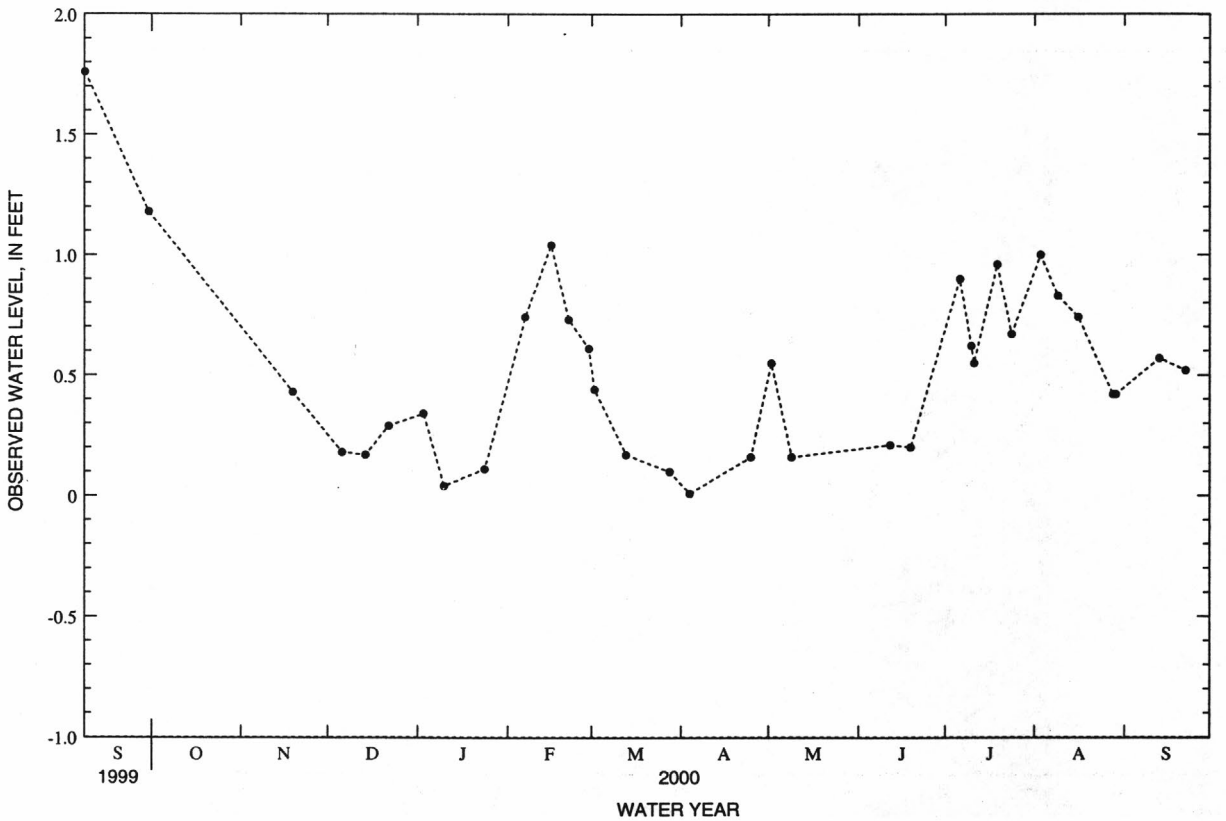
PERIOD OF RECORD.--September 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 1.76 ft, Sept. 8, 1999; minimum not determined.

DATE	WATER LEVEL (IN FEET)	DATE	WATER LEVEL (IN FEET)
Sep. 8, 1999	1.76	Apr. 25, 2000	0.16
Sep. 30, 1999	1.18	May 2, 200	0.55
Nov. 19, 1999	0.43	May 9, 2000	0.16
Dec. 6, 1999	0.18	Jun. 12, 2000	0.21
Dec. 14, 1999	0.17	Jun. 19, 2000	0.20
Dec. 22, 1999	0.29	Jul. 6, 2000	0.90
Jan. 3, 2000	0.34	Jul. 10, 2000	0.62
Jan. 10, 2000	0.04	Jul. 11, 2000	0.55
Jan. 24, 2000	0.11	Jul. 19, 2000	0.96
Feb. 7, 2000	0.74	Jul. 24, 2000	0.67
Feb. 16, 2000	1.04	Aug. 3, 2000	1.00
Feb. 22, 2000	0.73	Aug. 9, 2000	0.83
Feb. 29, 2000	0.61	Aug. 16, 2000	0.74
Mar. 2, 2000	0.44	Aug. 28, 2000	0.42
Mar. 13, 2000	0.17	Aug. 29, 2000	0.42
Mar. 28, 2000	0.10	Sep. 13, 2000	0.57
Apr. 4, 2000	0.01	Sep. 22, 2000	0.52



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

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

DRAINAGE AREA.--Indeterminate.

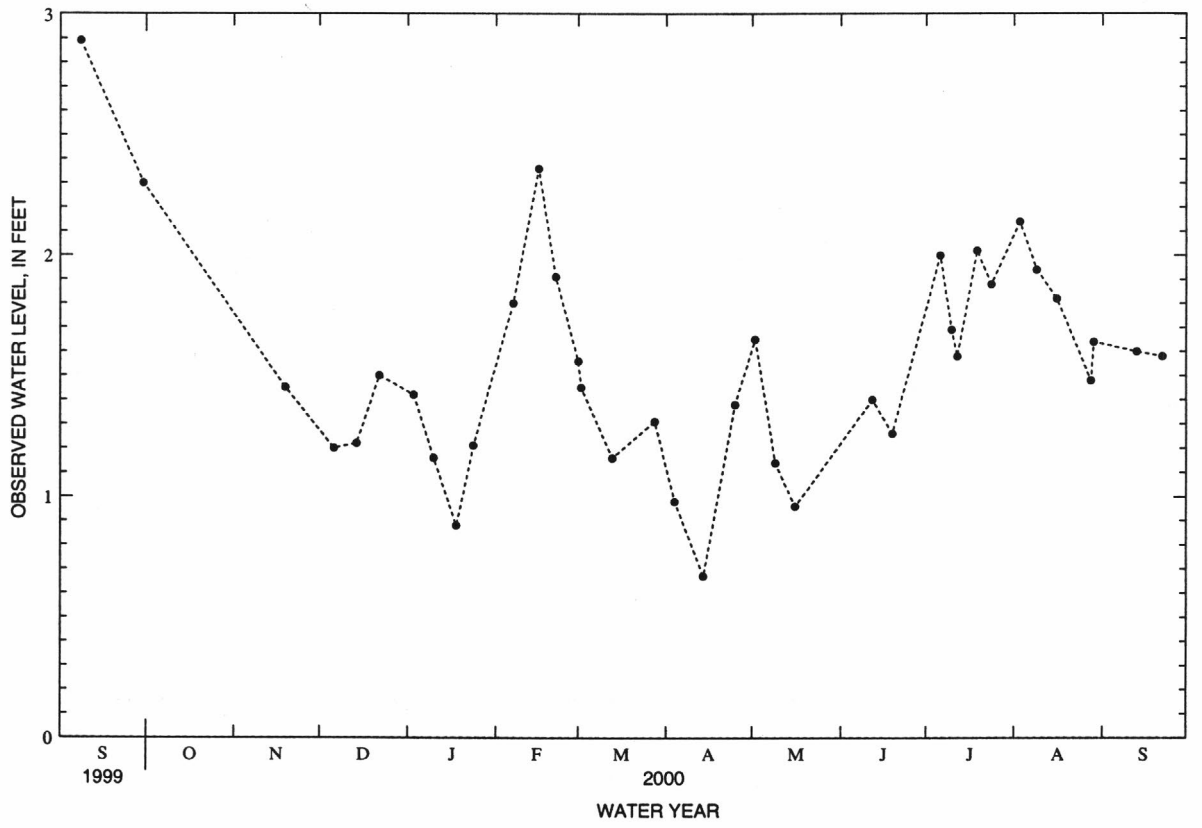
PERIOD OF RECORD.--September 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.89 ft, Sept. 8, 1999; minimum observed, 0.67 ft, Apr. 14, 2000.

DATE	WATER LEVEL (IN FEET)
Sep. 8, 1999	2.89
Sep. 30, 1999	2.30
Nov. 19, 1999	1.45
Dec. 6, 1999	1.20
Dec. 14, 1999	1.22
Dec. 22, 1999	1.50
Jan. 3, 2000	1.42
Jan. 10, 2000	1.16
Jan. 18, 2000	0.88
Jan. 24, 2000	1.21
Feb. 7, 2000	1.80
Feb. 16, 2000	2.36
Feb. 22, 2000	1.91
Mar. 1, 2000	1.56
Mar. 2, 2000	1.45
Mar. 13, 2000	1.16
Mar. 28, 2000	1.31
Apr. 4, 2000	0.98
Apr. 14, 2000	0.67
Apr. 25, 2000	1.38
May 2, 2000	1.65
May 9, 2000	1.14
May 16, 2000	0.96
Jun. 12, 2000	1.40
Jun. 19, 2000	1.26
Jul. 6, 2000	2.00
Jul. 10, 2000	1.69
Jul. 12, 2000	1.58
Jul. 19, 2000	2.02
Jul. 24, 2000	1.88
Aug. 3, 2000	2.14
Aug. 9, 2000	1.94
Aug. 16, 2000	1.82
Aug. 28, 2000	1.48
Aug. 29, 2000	1.64
Sep. 13, 2000	1.60
Sep. 22, 2000	1.58



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

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

DRAINAGE AREA.--Indeterminate.

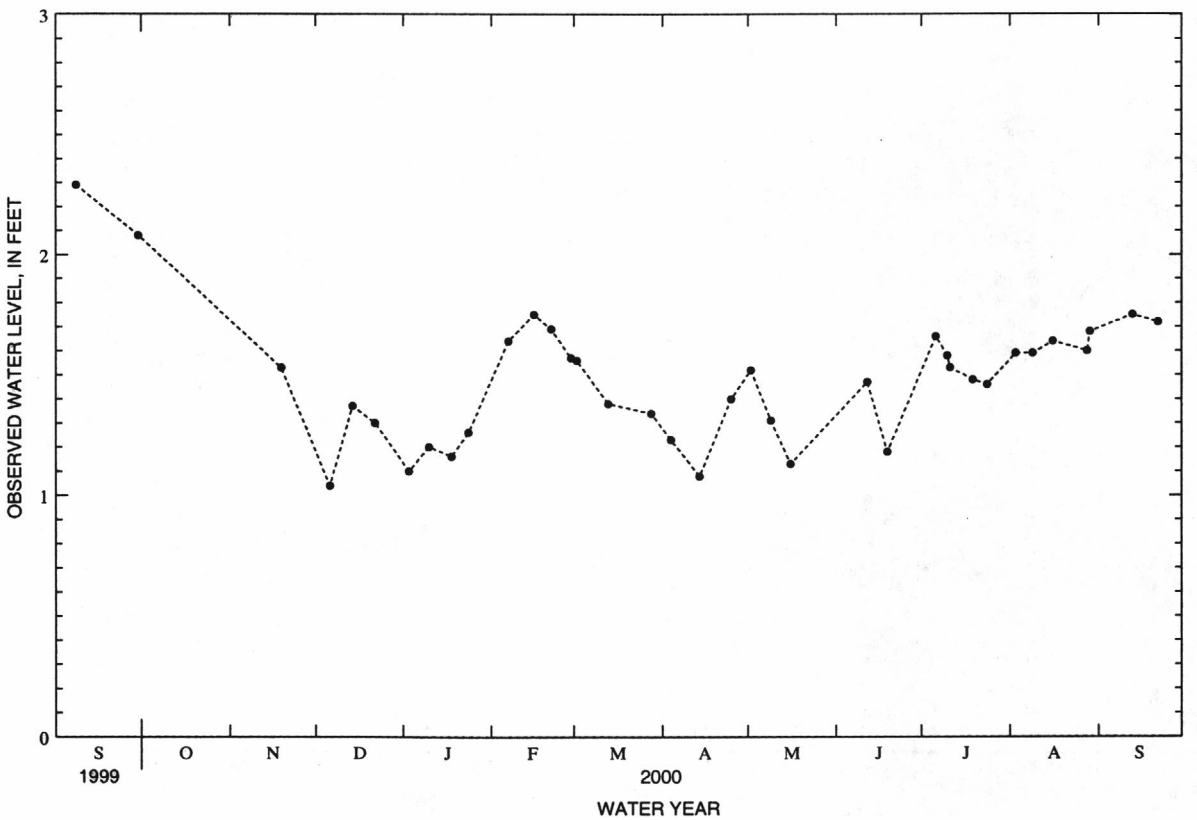
PERIOD OF RECORD.--September 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.29 ft, Sept. 8, 1999; minimum observed, 1.04 ft, Dec. 6, 1999.

DATE	WATER LEVEL (IN FEET)
Sep. 8, 1999	2.29
Sep. 30, 1999	2.08
Nov. 19, 1999	1.53
Dec. 6, 1999	1.04
Dec. 14, 1999	1.37
Dec. 22, 1999	1.30
Jan. 3, 2000	1.10
Jan. 10, 2000	1.20
Jan. 18, 2000	1.16
Jan. 24, 2000	1.26
Feb. 7, 2000	1.64
Feb. 16, 2000	1.75
Feb. 22, 2000	1.69
Feb. 29, 2000	1.57
Mar. 2, 2000	1.56
Mar. 13, 2000	1.38
Mar. 28, 2000	1.34
Apr. 4, 2000	1.23
Apr. 14, 2000	1.08
Apr. 25, 2000	1.40
May 2, 2000	1.52
May 9, 2000	1.31
May 16, 2000	1.13
Jun. 12, 2000	1.47
Jun. 19, 2000	1.18
Jul. 6, 2000	1.66
Jul. 10, 2000	1.58
Jul. 11, 2000	1.53
Jul. 19, 2000	1.48
Jul. 24, 2000	1.46
Aug. 3, 2000	1.59
Aug. 9, 2000	1.59
Aug. 16, 2000	1.64
Aug. 28, 2000	1.60
Aug. 29, 2000	1.68
Sep. 13, 2000	1.75
Sep. 22, 2000	1.72



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

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

DRAINAGE AREA.--Indeterminate.

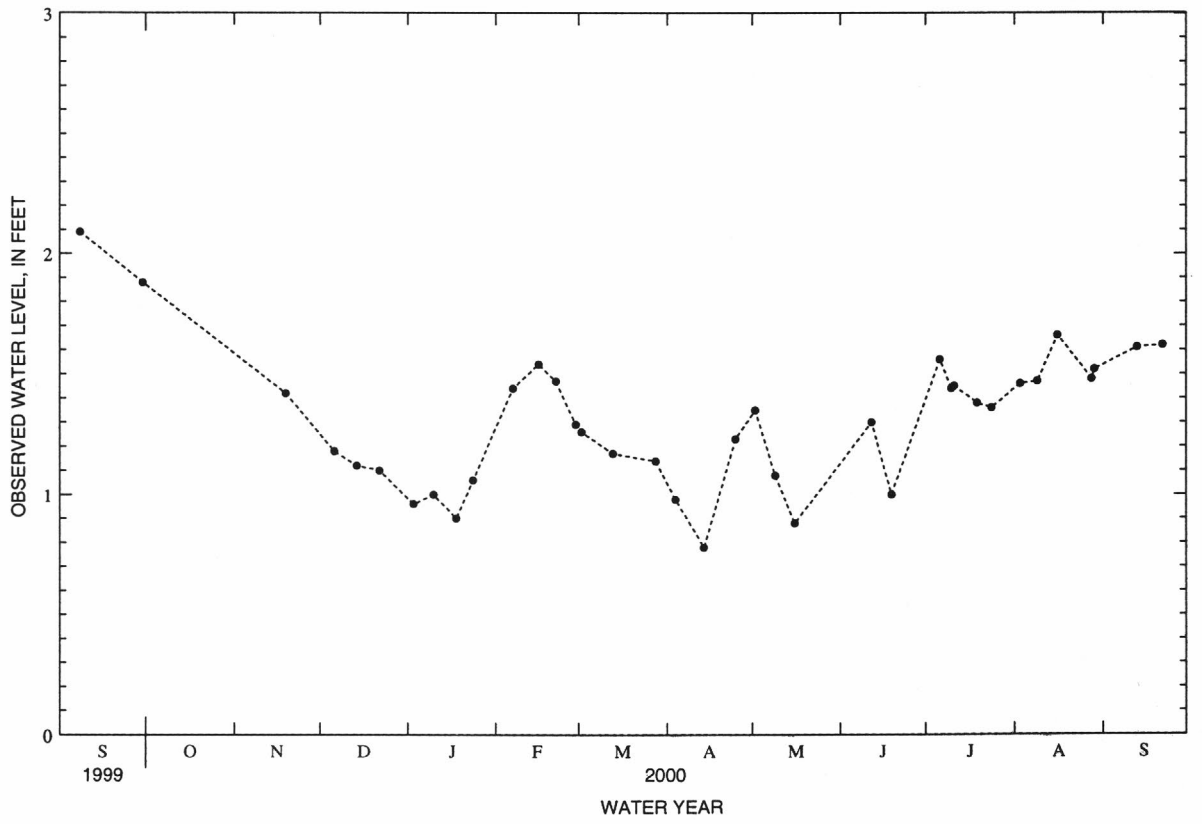
PERIOD OF RECORD.--September 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.09 ft, Sept. 8, 1999; minimum observed, 0.78 ft, Apr. 14, 2000.

DATE	WATER LEVEL (IN FEET)
Sep. 8, 1999	2.09
Sep. 30, 1999	1.88
Nov. 19, 1999	1.42
Dec. 6, 1999	1.18
Dec. 14, 1999	1.12
Dec. 22, 1999	1.10
Jan. 3, 2000	0.96
Jan. 10, 2000	1.00
Jan. 18, 2000	0.90
Jan. 24, 2000	1.06
Feb. 7, 2000	1.44
Feb. 16, 2000	1.54
Feb. 22, 2000	1.47
Feb. 29, 2000	1.29
Mar. 2, 2000	1.26
Mar. 13, 2000	1.17
Mar. 28, 2000	1.14
Apr. 4, 2000	0.98
Apr. 14, 2000	0.78
Apr. 25, 2000	1.23
May 2, 2000	1.35
May 9, 2000	1.08
May 16, 2000	0.88
Jun. 12, 2000	1.30
Jun. 19, 2000	1.00
Jul. 6, 2000	1.56
Jul. 10, 2000	1.44
Jul. 11, 2000	1.45
Jul. 19, 2000	1.38
Jul. 24, 2000	1.36
Aug. 3, 2000	1.46
Aug. 9, 2000	1.47
Aug. 16, 2000	1.66
Aug. 28, 2000	1.48
Aug. 29, 2000	1.52
Sep. 13, 2000	1.61
Sep. 22, 2000	1.62



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

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

DRAINAGE AREA.--Indeterminate.

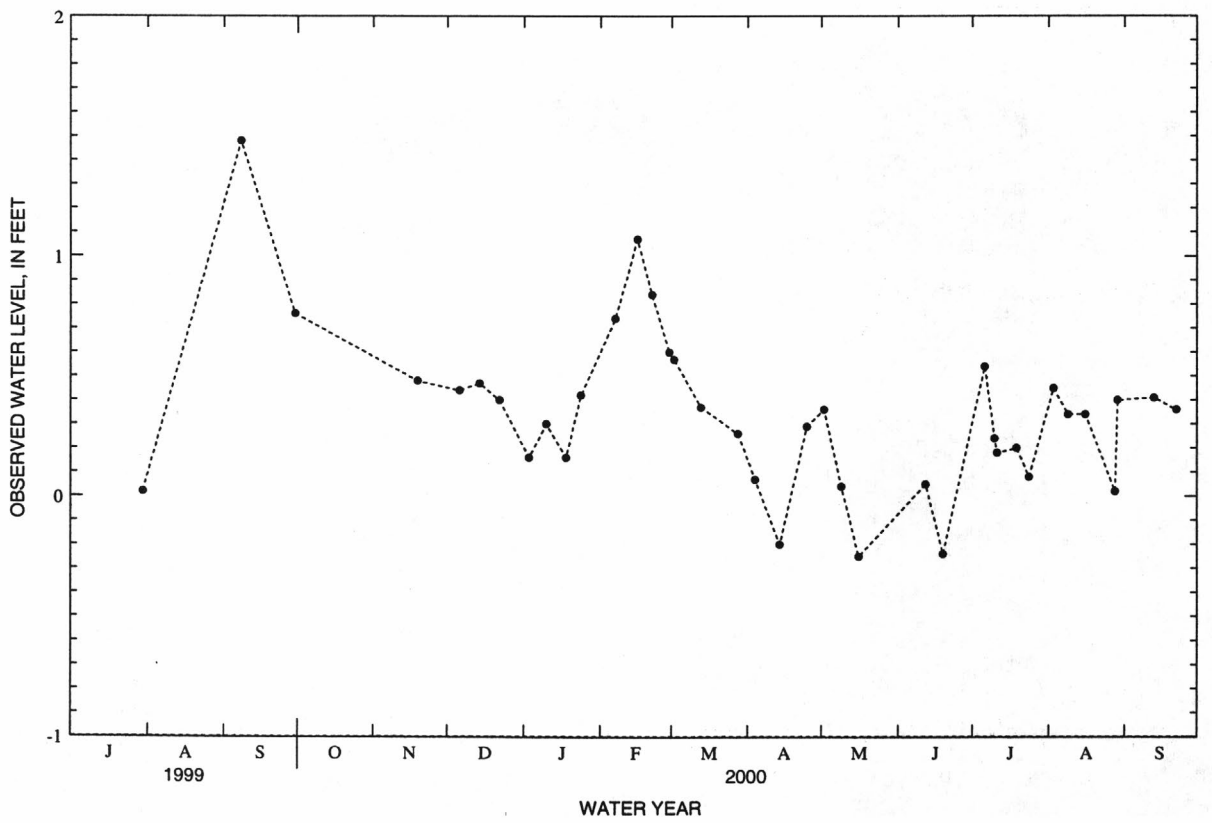
PERIOD OF RECORD.--July 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 1.48 ft, Sept. 8, 1999; minimum observed, -0.25 ft, May 16, 2000.

DATE	WATER LEVEL (IN FEET)
Jul. 30, 1999	0.02
Sep. 8, 1999	1.48
Sep. 30, 1999	0.76
Nov. 19, 1999	0.48
Dec. 6, 1999	0.44
Dec. 14, 1999	0.47
Dec. 22, 1999	0.40
Jan. 3, 2000	0.16
Jan. 10, 2000	0.30
Jan. 18, 2000	0.16
Jan. 24, 2000	0.42
Feb. 7, 2000	0.74
Feb. 16, 2000	1.07
Feb. 22, 2000	0.84
Feb. 29, 2000	0.60
Mar. 2, 2000	0.57
Mar. 13, 2000	0.37
Mar. 28, 2000	0.26
Apr. 4, 2000	0.07
Apr. 14 2000	-0.20
Apr. 25, 2000	0.29
May 2, 2000	0.36
May 9, 2000	0.04
May 16, 2000	-0.25
Jun. 12, 2000	0.05
Jul. 6, 2000	0.54
Jul. 10, 2000	0.24
Jul. 11, 2000	0.18
Jul. 19, 2000	0.20
Jul. 24, 2000	0.08
Aug. 3, 2000	0.45
Aug. 9, 2000	0.34
Aug. 16, 2000	0.34
Aug. 28, 2000	0.02
Aug. 29, 2000	0.40
Sep. 13, 2000	0.41
Sep. 22, 2000	0.36



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

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

DRAINAGE AREA.--Indeterminate.

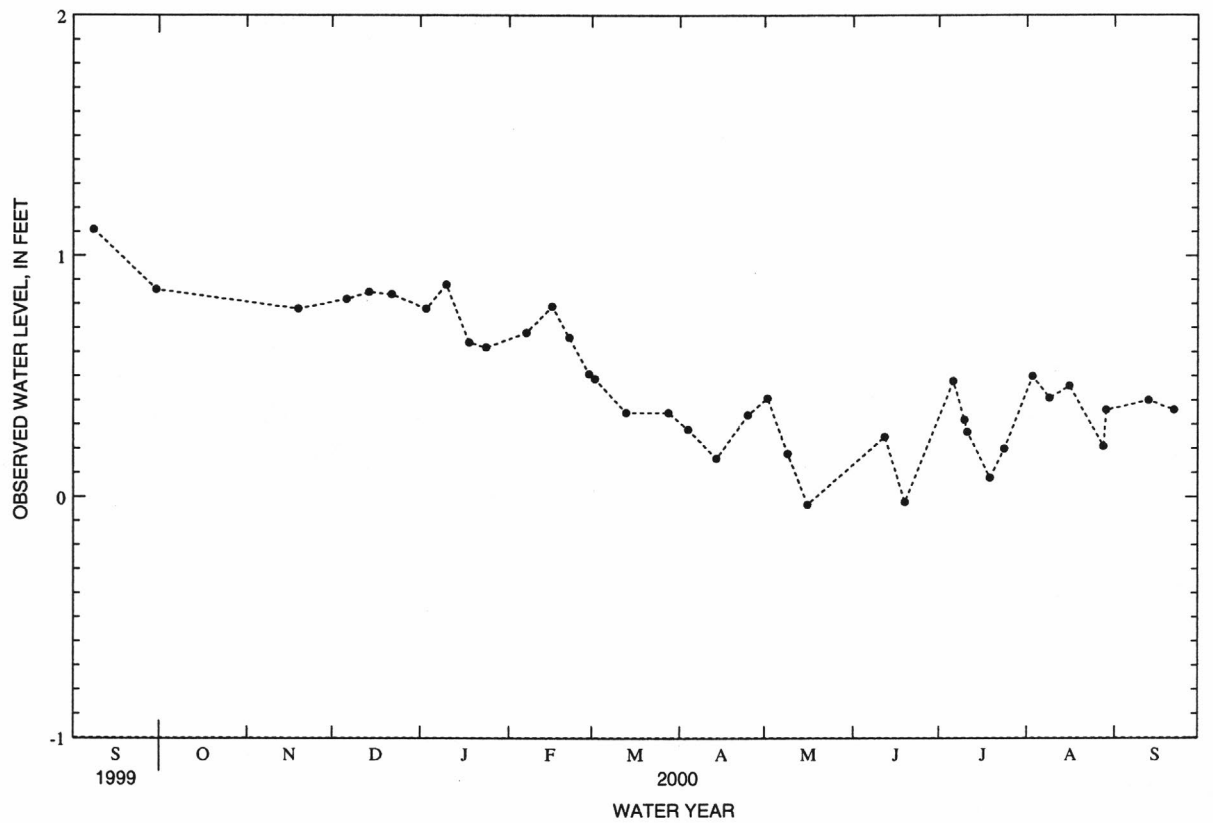
PERIOD OF RECORD.--September 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 1.11 ft, Sept. 8, 1999; minimum observed, -0.03 ft, May 16, 2000.

DATE	WATER LEVEL (IN FEET)
Sep. 8, 1999	1.11
Sep. 30, 1999	0.86
Nov. 19, 1999	0.78
Dec. 6, 1999	0.82
Dec. 14, 1999	0.85
Dec. 22, 1999	0.84
Jan. 3, 2000	0.78
Jan. 10, 2000	0.88
Jan. 18, 2000	0.64
Jan. 24, 2000	0.62
Feb. 7, 2000	0.68
Feb. 16, 2000	0.79
Feb. 22, 2000	0.66
Feb. 29, 2000	0.51
Mar. 2, 2000	0.49
Mar. 13, 2000	0.35
Mar. 28, 2000	0.35
Apr. 4, 2000	0.28
Apr. 14, 2000	0.16
Apr. 25, 2000	0.34
May 2, 2000	0.41
May 9, 2000	0.18
May 16, 2000	-0.03
Jun. 12, 2000	0.25
Jun. 19, 2000	-0.02
Jul. 6, 2000	0.48
Jul. 10, 2000	0.32
Jul. 11, 2000	0.27
Jul. 19, 2000	0.08
Jul. 24, 2000	0.20
Aug. 3, 2000	0.50
Aug. 9, 2000	0.41
Aug. 16, 2000	0.46
Aug. 28, 2000	0.21
Aug. 29, 2000	0.36
Sep. 13, 2000	0.40
Sep. 22, 2000	0.36



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

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

DRAINAGE AREA.--Indeterminate.

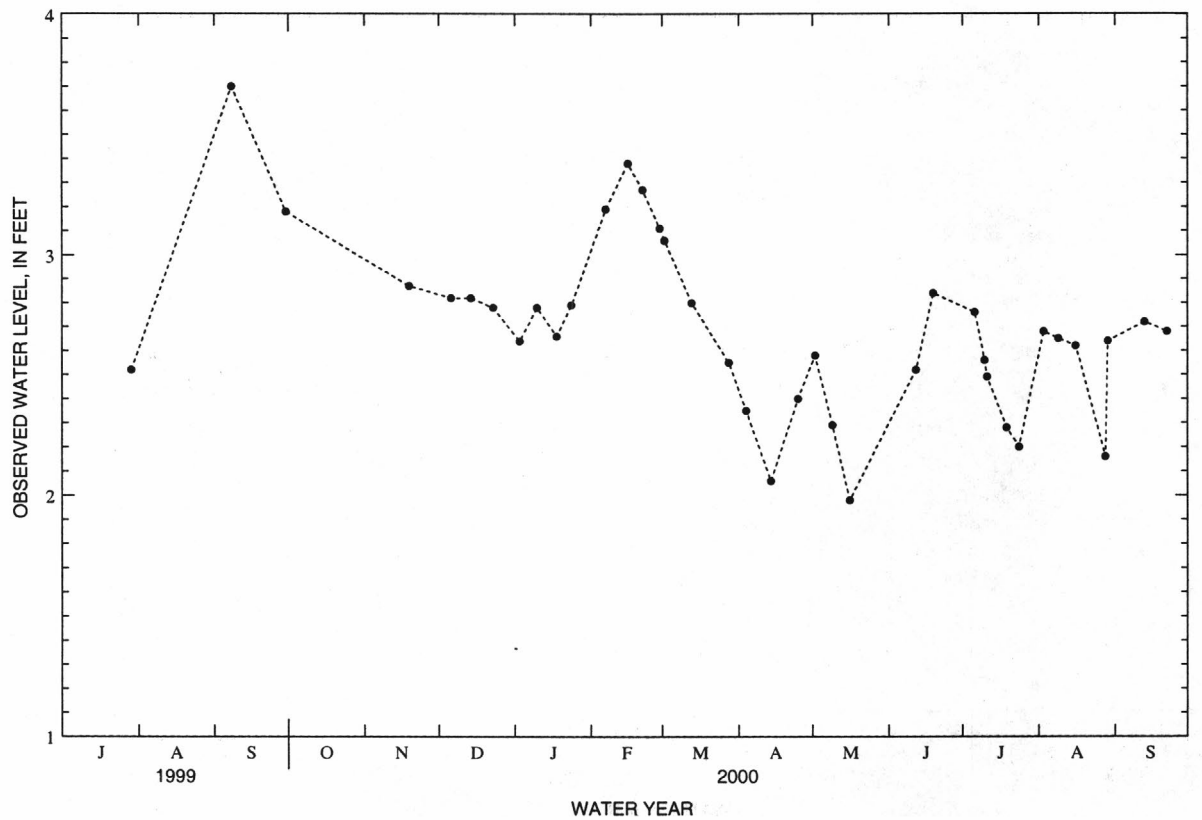
PERIOD OF RECORD.--July 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 3.70 ft, Sept. 8, 1999; minimum observed, 1.98 ft, May 16, 2000.

DATE	WATER LEVEL (IN FEET)
Jul. 29, 1999	2.52
Sep. 8, 1999	3.70
Sep. 30, 1999	3.18
Nov. 19, 1999	2.87
Dec. 6, 1999	2.82
Dec. 14, 1999	2.82
Dec. 23, 1999	2.78
Jan. 3, 2000	2.64
Jan. 10, 2000	2.78
Jan. 18, 2000	2.66
Jan. 24, 2000	2.79
Feb. 7, 2000	3.19
Feb. 16, 2000	3.38
Feb. 22, 2000	3.27
Feb. 29, 2000	3.11
Mar. 2, 2000	3.06
Mar. 13, 2000	2.80
Mar. 28, 2000	2.55
Apr. 4, 2000	2.35
Apr. 14, 2000	2.06
Apr. 25, 2000	2.40
May 2, 2000	2.58
May 9, 2000	2.29
May 16, 2000	1.98
Jun. 12, 2000	2.52
Jun. 19, 2000	2.84
Jul. 6, 2000	2.76
Jul. 10, 2000	2.56
Jul. 11, 2000	2.49
Jul. 19, 2000	2.28
Jul. 24, 2000	2.20
Aug. 3, 2000	2.68
Aug. 9, 2000	2.65
Aug. 16, 2000	2.62
Aug. 28, 2000	2.16
Aug. 29, 2000	2.64
Sep. 13, 2000	2.72
Sep. 22, 2000	2.68



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

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

DRAINAGE AREA.--Indeterminate.

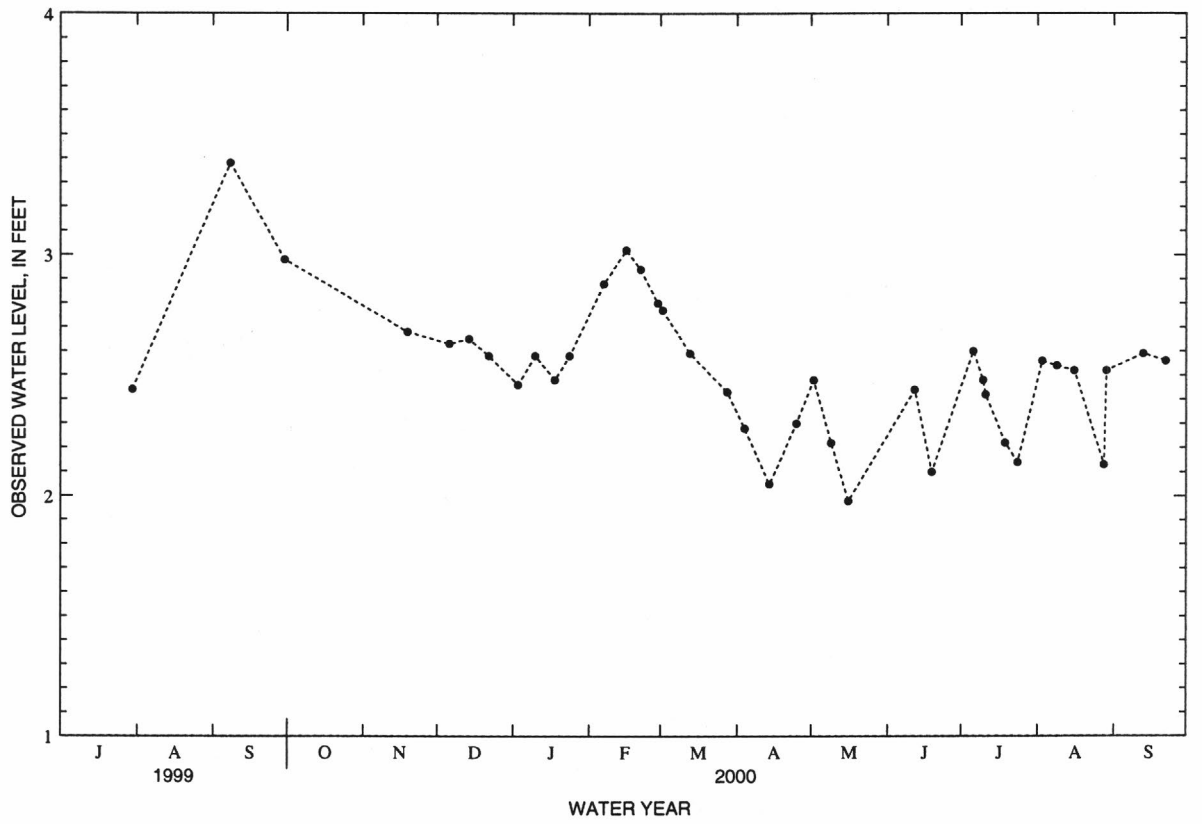
PERIOD OF RECORD.--July 1999 to September 2000.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 3.38 ft, Sept. 8, 1999; minimum observed, 1.98 ft, May 16, 2000.

DATE	WATER LEVEL (IN FEET)
Jul. 30, 1999	2.44
Sep. 8, 1999	3.38
Sep. 30, 1999	2.98
Nov. 19, 1999	2.68
Dec. 6, 1999	2.63
Dec. 14, 1999	2.65
Dec. 22, 1999	2.58
Jan. 3, 2000	2.46
Jan. 10, 2000	2.58
Jan. 18, 2000	2.48
Jan. 24, 2000	2.58
Feb. 7, 2000	2.88
Feb. 16, 2000	3.02
Feb. 22, 2000	2.94
Feb. 29, 2000	2.80
Mar. 2, 2000	2.77
Mar. 13, 2000	2.59
Mar. 28, 2000	2.43
Apr. 4, 2000	2.28
Apr. 14, 2000	2.05
Apr. 25, 2000	2.30
May 2, 2000	2.48
May 9, 2000	2.22
May 16, 2000	1.98
Jun. 12, 2000	2.44
Jun. 19, 2000	2.10
Jul. 6, 2000	2.60
Jul. 10, 2000	2.48
Jul. 11, 2000	2.42
Jul. 19, 2000	2.22
Jul. 24, 2000	2.14
Aug. 3, 2000	2.56
Aug. 9, 2000	2.54
Aug. 16, 2000	2.52
Aug. 28, 2000	2.13
Aug. 29, 2000	2.52
Sep. 13, 2000	2.59
Sep. 22, 2000	2.56



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

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

DRAINAGE AREA.--Indeterminate.

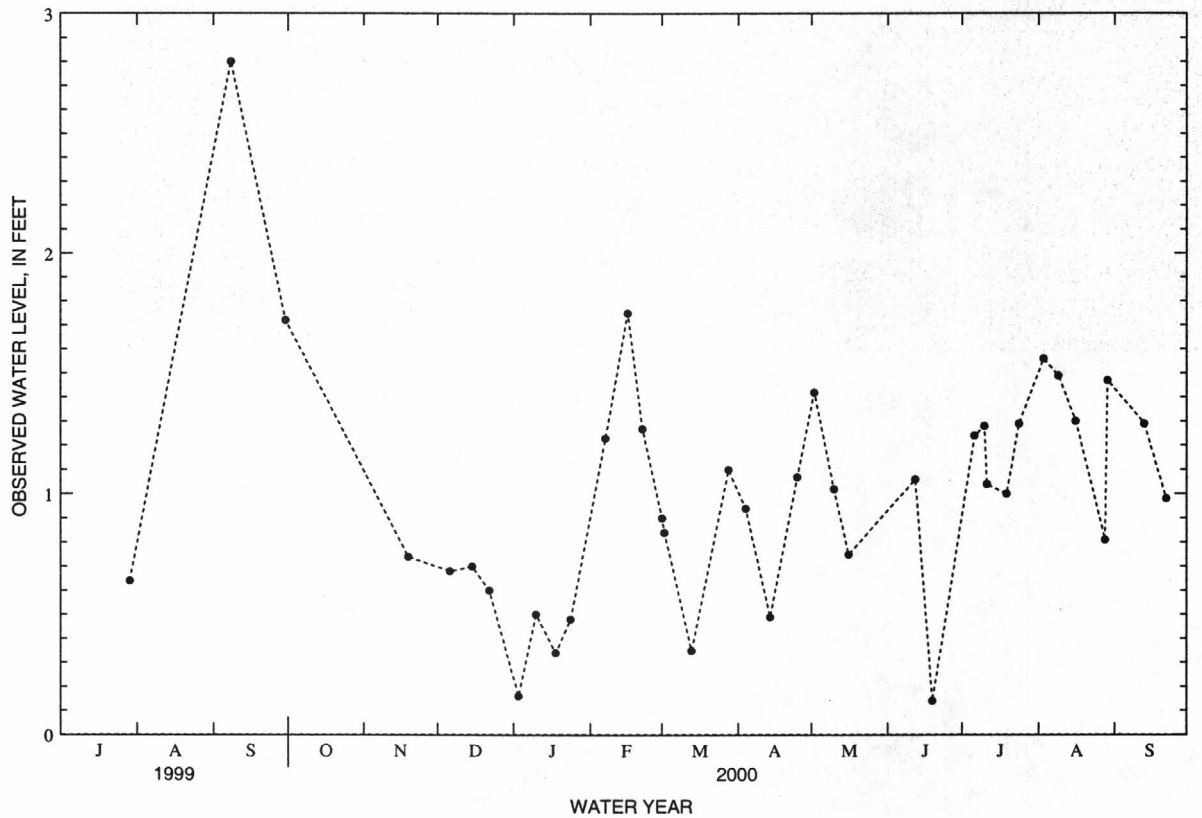
PERIOD OF RECORD.--July 1999 to September 2000.

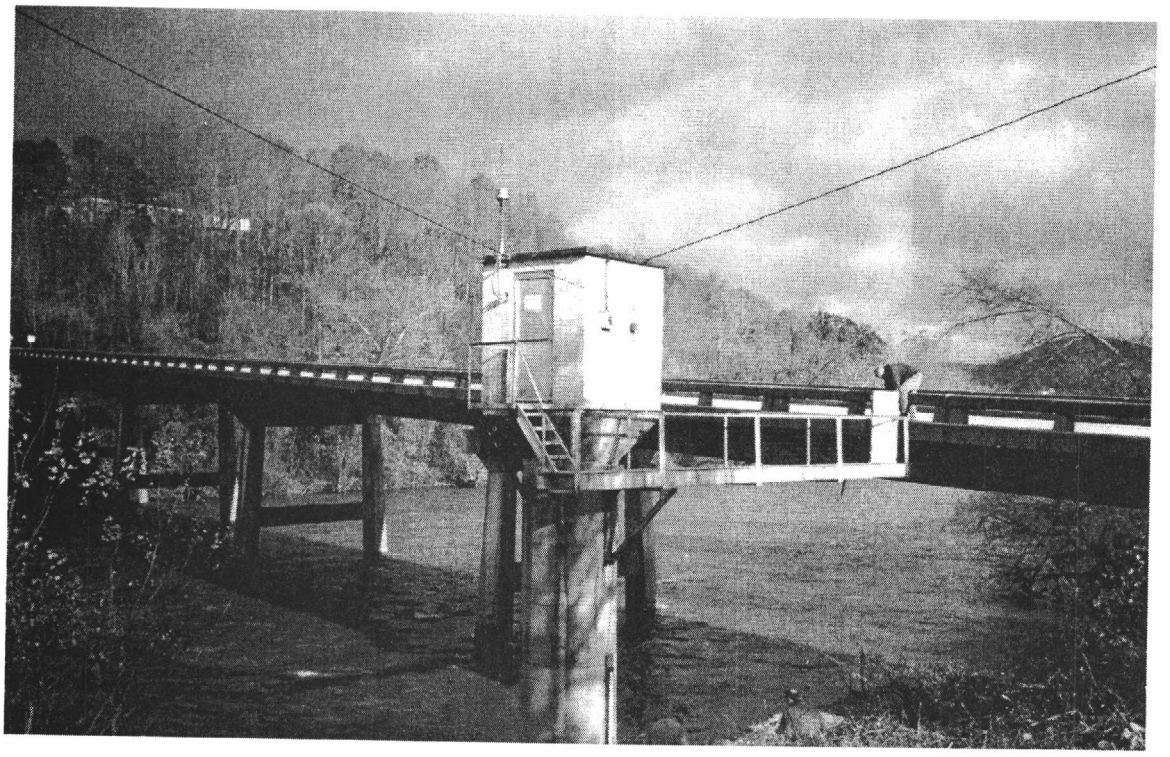
GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.80 ft, Sept. 8, 1999; minimum observed, 0.14, Jun. 19, 2000.

DATE	WATER LEVEL (IN FEET)
Jul. 29, 1999	0.64
Sep. 8, 1999	2.80
Sep. 30, 1999	1.72
Nov. 19, 1999	0.74
Dec. 6, 1999	0.68
Dec. 15, 1999	0.70
Dec. 22, 1999	0.60
Jan. 3, 2000	0.16
Jan. 10, 2000	0.50
Jan. 18, 2000	0.34
Jan. 24, 2000	0.48
Feb. 7, 2000	1.23
Feb. 16, 2000	1.75
Feb. 22, 2000	1.27
Mar. 1, 2000	0.90
Mar. 2, 2000	0.84
Mar. 13, 2000	0.35
Mar. 28, 2000	1.10
Apr. 4, 2000	0.94
Apr. 14, 2000	0.49
Apr. 25, 2000	1.07
May 2, 2000	1.42
May 10, 2000	1.02
May 16, 2000	0.75
Jun. 12, 2000	1.06
Jun. 19, 2000	0.14
Jul. 6, 2000	1.24
Jul. 10, 2000	1.28
Jul. 11, 2000	1.04
Jul. 19, 2000	1.00
Jul. 24, 2000	1.29
Aug. 3, 2000	1.56
Aug. 9, 2000	1.49
Aug. 16, 2000	1.30
Aug. 28, 2000	0.81
Aug. 29, 2000	1.47
Sep. 13, 2000	1.29
Sep. 22, 2000	0.98





USGS gaging station at French Broad River at Asheville.

02053200 POTECASI CREEK NEAR UNION, NC

LOCATION.--Lat 36°22'14", long 77°01'36", Hertford County, Hydrologic Unit 03010204, on right bank at downstream side of bridge on State Highway 11, 2.8 mi north of Union, 3 mi downstream of Cutawhiskie Swamp, and 3.5 mi upstream from Bells Branch.

DRAINAGE AREA.--225 mi^2.

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

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

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

REMARKS.--Records fair except those below 50 ft^3/s and those for estimated daily discharges which are poor. Maximum discharge for period of record from rating curve extended above 5,800 ft^3/s on basis of discharge-conveyance ratios of peak flow; gage height from outside floodmarks. Minimum discharge for current water year also occurred July 19.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	186	57	55	1170	160	270	198	486	556	515	90
2	231	158	56	53	1260	145	267	161	411	293	549	191
3	232	193	56	52	1240	135	234	140	312	127	554	341
4	221	206	56	51	1200	126	186	118	214	72	648	402
5	197	166	61	74	1120	115	145	96	150	45	738	627
6	170	133	76	105	992	105	118	76	133	32	599	766
7	143	120	90	104	858	95	102	61	110	24	432	631
8	119	110	90	112	733	87	88	49	75	21	375	494
9	99	101	86	122	625	84	85	42	49	20	329	356
10	86	94	81	163	536	80	80	37	39	19	250	245
11	77	89	83	406	462	75	72	33	33	17	169	167
12	69	85	80	428	405	85	63	31	27	15	135	107
13	60	80	75	378	393	88	58	30	22	13	109	65
14	53	76	80	380	397	81	62	28	19	11	117	47
15	45	73	90	359	397	73	99	24	31	9.8	85	34
16	40	67	89	324	398	72	339	21	23	9.3	48	28
17	102	63	82	277	382	91	404	22	19	9.6	72	23
18	1790	59	78	224	374	95	876	22	16	9.2	70	22
19	3340	56	79	181	448	87	1320	22	22	9.4	38	23
20	4030	53	81	153	473	96	1310	21	118	11	31	22
21	3800	54	80	131	440	162	1260	26	98	11	26	21
22	3230	55	80	124	409	296	1100	30	45	11	22	20
23	2650	55	79	124	376	294	880	38	35	13	19	24
24	2120	56	78	115	338	251	661	47	56	52	17	31
25	1660	56	76	296	297	216	477	39	32	332	16	38
26	1250	57	74	563	258	186	340	35	24	514	16	158
27	910	65	70	524	227	162	246	38	19	642	14	409
28	662	64	66	e460	203	199	190	315	23	684	15	282
29	476	61	63	e380	179	284	201	548	339	626	15	187
30	331	59	60	e400	---	254	234	619	721	548	25	165
31	240	---	57	734	---	254	---	541	---	473	58	---
TOTAL	28677	2750	2309	7852	16590	4533	11767	3508	3701	5229.3	6106	6016
MEAN	925	91.7	74.5	253	572	146	392	113	123	169	197	201
MAX	4030	206	90	734	1260	296	1320	619	721	684	738	766
MIN	40	53	56	51	179	72	58	21	16	9.2	14	20
CFSM	4.11	.41	.33	1.13	2.54	.65	1.74	.50	.55	.75	.88	.89
IN.	4.74	.45	.38	1.30	2.74	.75	1.95	.58	.61	.86	1.01	.99

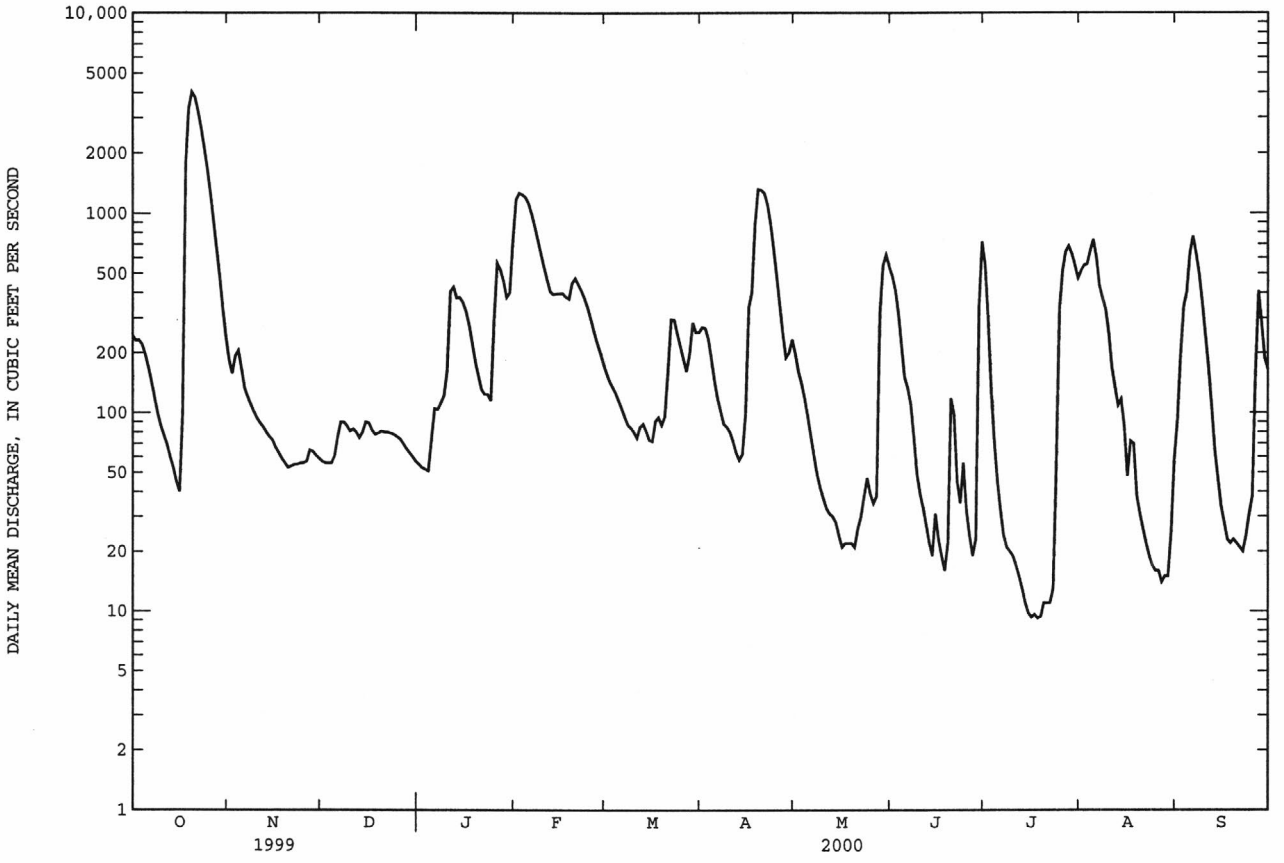
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2000, BY WATER YEAR (WY)

MEAN	133	99.6	200	413	498	466	302	150	106	106	157	144
MAX	1108	619	619	957	1135	1439	994	925	700	531	1131	2515
(WY)	1960	1986	1990	1987	1960	1989	1983	1979	1979	1975	1992	1999
MIN	2.12	5.64	12.0	51.3	54.9	46.7	27.7	5.36	4.71	2.32	2.50	1.65
(WY)	1995	1982	1995	1981	1991	1988	1995	1994	1986	1983	1987	1995

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1959 - 2000	
ANNUAL TOTAL	144117.2		99038.3			
ANNUAL MEAN	395		271		230	
HIGHEST ANNUAL MEAN					458	1979
LOWEST ANNUAL MEAN					73.0	1981
HIGHEST DAILY MEAN	15200	Sep 17	4030	Oct 20	15200	Sep 17 1999
LOWEST DAILY MEAN	1.1	Aug 13	9.2	Jul 18	.30	Jun 30 1959
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 8	9.9	Jul 14	.51	Jun 25 1959
INSTANTANEOUS PEAK FLOW			4090	Oct 20	17000*	Sep 17 1999
INSTANTANEOUS PEAK STAGE			19.08	Oct 20	28.90*	Sep 17 1999
INSTANTANEOUS LOW FLOW			8.8*	Jul 16	.20	Jul 1 1959
ANNUAL RUNOFF (CFSM)	1.75		1.20		1.02	
ANNUAL RUNOFF (INCHES)	23.83		16.37		13.89	
10 PERCENT EXCEEDS	902		625		648	
50 PERCENT EXCEEDS	82		102		76	
90 PERCENT EXCEEDS	3.7		22		5.4	

e Estimated.
* See REMARKS.

02053200 POTECASI CREEK NEAR UNION, NC--Continued



02053500 AHOSKIE CREEK AT AHOSKIE, NC

LOCATION.--Lat 36°16'48", long 77°00'00", Hertford County, Hydrologic Unit 03010203, on right bank 10 ft downstream of bridge on State Highways 11 and 42, 0.5 mi upstream from Seaboard Coast Line Railroad bridge, and 0.8 mi southwest of Ahoskie.

DRAINAGE AREA.--63.3 mi^2.

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

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

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

REMARKS.--No estimated daily discharges. Records fair. Entire basin above station canalized since July 1964. Excavation began downstream in July 1962 and reached the station in December 1962. Reach was recanalized beginning in September 1984 and completed October 1984. Minimum discharge since canalization also occurred Oct. 9, 1988. Prior to canalization, no flow occurred periodically.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	31	36	14	596	33	49	32	18	41	62	141
2	87	62	36	13	309	32	44	26	14	19	25	282
3	73	73	34	13	186	31	41	23	11	12	86	145
4	63	47	34	15	145	30	39	20	12	9.3	417	141
5	56	39	34	34	118	30	36	18	18	8.4	262	393
6	51	36	36	28	93	29	34	16	15	7.9	90	244
7	48	32	31	24	78	29	36	15	14	7.5	45	109
8	44	32	32	23	67	29	36	13	11	6.6	31	60
9	42	33	34	23	60	29	40	12	9.4	6.3	34	37
10	40	33	34	103	57	29	41	11	8.8	5.8	21	26
11	39	33	32	142	57	29	38	11	8.4	5.3	17	20
12	38	32	41	73	57	35	35	10	8.0	5.2	99	15
13	37	32	42	55	78	37	35	10	7.8	5.1	56	12
14	36	31	44	45	82	34	40	9.8	8.3	5.4	41	92
15	34	31	31	39	84	33	133	9.2	17	5.3	30	52
16	34	35	25	37	71	37	237	9.1	9.5	5.0	23	26
17	251	33	22	33	62	75	168	8.8	8.2	5.3	84	16
18	1350	34	21	30	87	58	470	8.3	7.7	5.7	32	13
19	1450	34	21	29	129	49	230	8.0	11	5.6	25	14
20	1590	32	21	30	95	46	111	8.3	12	6.4	16	13
21	1200	40	20	32	71	110	68	11	9.0	5.9	12	9.8
22	558	37	19	30	58	113	48	15	7.5	5.9	9.6	8.0
23	229	37	19	29	48	81	37	12	6.9	6.2	8.2	12
24	105	35	19	39	42	66	30	8.5	6.5	44	7.3	27
25	76	36	17	389	40	56	32	8.1	6.3	54	6.7	23
26	60	38	16	273	38	50	31	7.8	6.5	21	6.4	378
27	52	32	16	174	36	47	29	9.5	6.2	17	6.1	238
28	43	38	16	113	36	108	33	35	15	9.5	6.0	114
29	38	37	15	84	35	88	65	113	206	35	5.8	61
30	36	36	15	161	---	66	45	40	123	83	15	37
31	34	---	14	669	---	56	---	24	---	56	35	---
TOTAL	7907	1111	827	2796	2915	1575	2311	562.4	622.0	515.6	1614.1	2758.8
MEAN	255	37.0	26.7	90.2	101	50.8	77.0	18.1	20.7	16.6	52.1	92.0
MAX	1590	73	44	669	596	113	470	113	206	83	417	393
MIN	34	31	14	13	35	29	29	7.8	6.2	5.0	5.8	8.0
CFSM	4.03	.59	.42	1.42	1.59	.80	1.22	.29	.33	.26	.82	1.45
IN.	4.65	.65	.49	1.64	1.71	.93	1.36	.33	.37	.30	.95	1.62

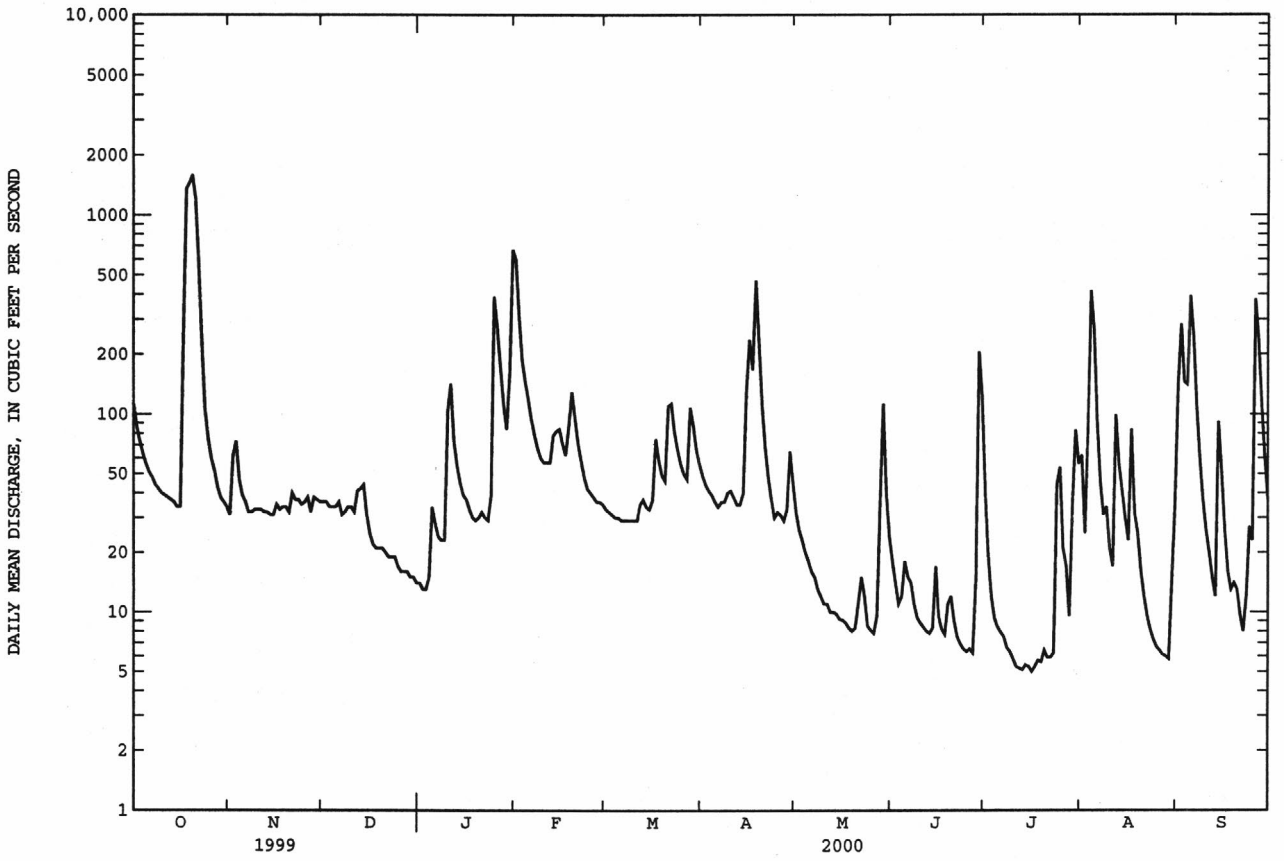
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000,* BY WATER YEAR (WY)

MEAN	42.0	23.2	46.7	105	126	126	73.2	45.1	31.5	31.8	46.2	47.7
MAX	297	120	177	260	343	303	243	238	112	126	381	894
(WY)	1972	1986	1990	1979	1998	1989	1983	1979	1979	1975	1992	1999
MIN	3.01	3.21	3.10	7.66	18.9	17.3	8.73	4.21	5.43	3.55	3.59	3.41
(WY)	1977	1982	1995	1981	1968	1988	1985	1986	1986	1987	1983	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000*	
ANNUAL TOTAL	44731.3		25514.9			
ANNUAL MEAN	123		69.7		61.8	
HIGHEST ANNUAL MEAN					109	1979
LOWEST ANNUAL MEAN					14.7	1981
HIGHEST DAILY MEAN	7710	Sep 17	1590	Oct 20	7710	Sep 17 1999
LOWEST DAILY MEAN	2.1	Aug 7	5.0	Jul 16	.61	Oct 8 1988
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 7	5.2	Jul 11	.85	Sep 27 1988
INSTANTANEOUS PEAK FLOW			1620	Oct 20	8570	Sep 17 1999
INSTANTANEOUS PEAK STAGE			11.39	Oct 20	17.32	Sep 17 1999
INSTANTANEOUS LOW FLOW			4.7	Jul 16	.45*	Oct 8 1988
ANNUAL RUNOFF (CFSM)	1.94		1.10		.98	
ANNUAL RUNOFF (INCHES)	26.29		14.99		13.26	
10 PERCENT EXCEEDS	132		115		136	
50 PERCENT EXCEEDS	31		34		18	
90 PERCENT EXCEEDS	3.6		8.1		4.3	

* Canalized period only (1964-2000). See REMARKS.

02053500 AHOSKIE CREEK AT AHOSKIE, NC--Continued



02068500 DAN RIVER NEAR FRANCISCO, NC

LOCATION.--Lat 36°30'53", long 80°18'11", Stokes County, Hydrologic Unit 03010103, on left bank 200 ft upstream from bridge on State Highway 704, 700 ft downstream of remains of Georges Mill, 0.2 mi downstream of Elk Creek, 3 mi east of Francisco, and 7.9 mi downstream of Little Dan River.

DRAINAGE AREA.--129 mi^2.

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

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

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

REMARKS.--No estimated daily discharges. Records good except those for discharges above 1,000 ft^3/s, which are fair. Since 1938, considerable diurnal fluctuation and regulation by Talbott and Townes Reservoirs (stations 02067800 and 02067820, respectively) and Pinnacles Hydroelectric Plant in Virginia, 28 mi upstream.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	77	130	104	180	114	124	152	43	76	81	77
2	206	127	86	86	186	111	132	114	44	110	140	120
3	150	145	78	83	146	103	197	100	130	74	111	274
4	110	108	71	112	100	94	276	99	139	74	81	116
5	135	92	71	140	90	102	240	98	103	82	74	132
6	110	82	88	144	91	146	161	129	137	83	74	91
7	82	92	103	141	97	107	131	157	102	75	113	81
8	92	95	107	139	105	105	150	130	90	68	68	79
9	92	93	105	130	118	106	163	137	74	68	82	77
10	256	91	111	374	106	107	146	113	70	107	121	73
11	270	90	221	238	111	119	169	71	67	83	85	70
12	151	91	136	160	194	160	165	78	61	68	65	83
13	111	92	84	171	209	154	127	107	109	72	103	101
14	105	91	441	169	189	109	193	131	118	75	58	136
15	96	89	393	114	178	105	139	63	97	68	57	101
16	108	88	180	111	183	121	140	58	137	103	57	73
17	135	85	130	131	158	180	206	73	94	61	54	70
18	97	79	111	130	143	155	465	78	90	62	60	70
19	92	82	96	177	166	112	229	77	109	59	69	273
20	133	79	120	110	179	360	166	79	86	78	58	114
21	141	75	160	127	130	482	132	80	86	66	59	92
22	110	78	160	156	144	258	137	145	85	57	51	83
23	101	96	152	122	140	165	125	122	91	67	51	122
24	95	91	135	106	132	170	125	85	82	125	57	92
25	138	92	101	126	134	161	264	80	85	80	61	100
26	97	126	99	98	133	158	260	85	72	73	64	190
27	83	182	97	164	153	154	169	66	92	66	59	106
28	75	102	91	212	191	149	161	63	126	70	144	91
29	75	95	90	107	117	143	200	66	125	79	75	83
30	84	95	94	102	---	134	158	62	89	122	64	82
31	113	---	93	104	---	129	---	56	---	74	67	---
TOTAL	3878	2900	4134	4388	4203	4773	5450	2954	2833	2425	2363	3252
MEAN	125	96.7	133	142	145	154	182	95.3	94.4	78.2	76.2	108
MAX	270	182	441	374	209	482	465	157	139	125	144	274
MIN	75	75	71	83	90	94	124	56	43	57	51	70
†	+3	+6	+6	-6	-2	+5	+3	-5	+1	-15	-15	-1

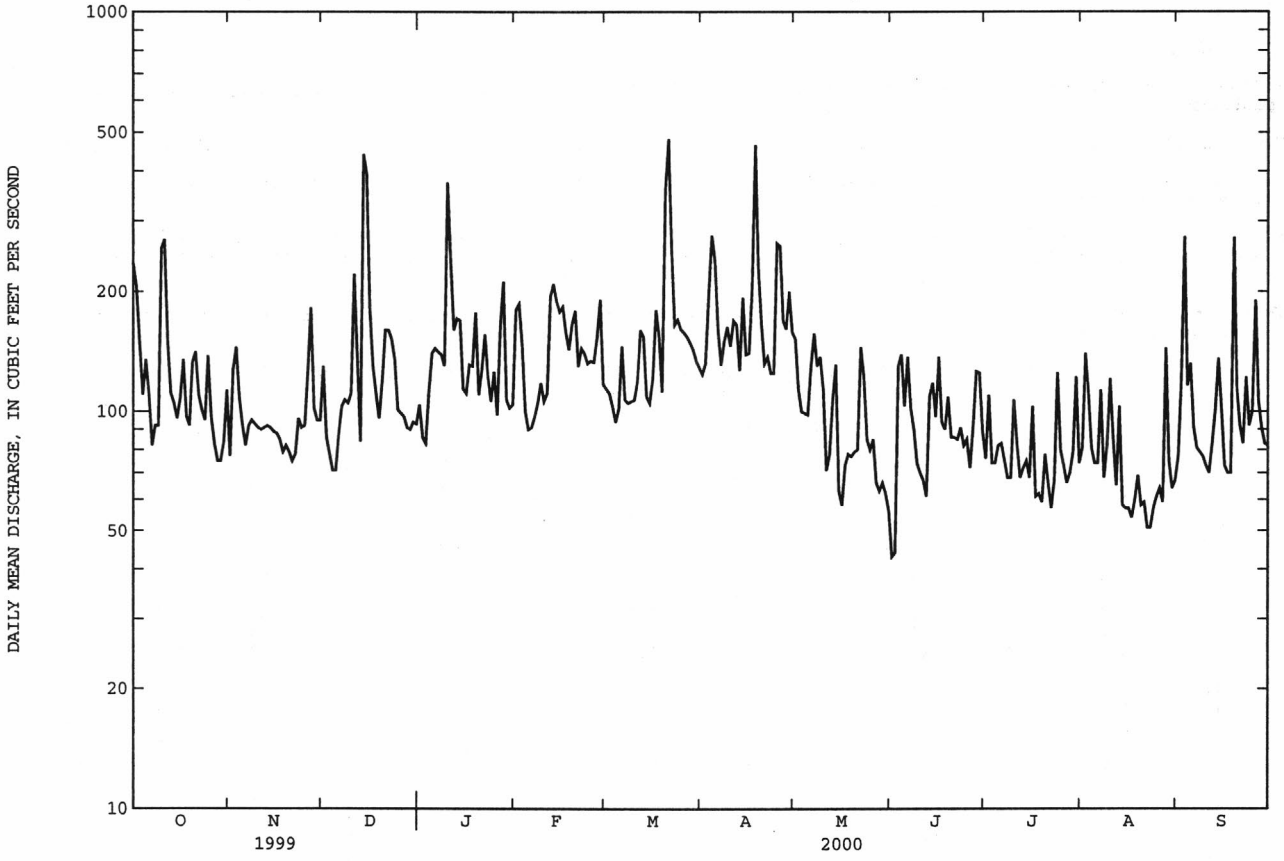
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000*@ BY WATER YEAR (WY)

MEAN	150	156	178	200	223	262	269	220	197	166	165	148
MAX	543	327	479	424	463	571	677	405	438	373	514	630
(WY)	1938	1980	1997	1978	1960	1993	1980	1949	1972	1938	1940	1979
MIN	49.7	61.3	77.5	76.2	94.9	94.2	120	95.3	78.3	54.8	52.5	50.4
(WY)	1964	1954	1998	1956	1956	1981	1967	2000	1967	1986	1981	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000*@	
ANNUAL TOTAL	44136		43553			
ANNUAL MEAN	121		119	‡117	195	(UNADJUSTED)
HIGHEST ANNUAL MEAN					300	1960
LOWEST ANNUAL MEAN					97.5	1956
HIGHEST DAILY MEAN	566	Jan 24	482	Mar 21	6830	Sep 22 1979
LOWEST DAILY MEAN	21	Sep 4	43	Jun 1	21	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	41	Aug 29	57	May 27	28	Aug 24 1981
INSTANTANEOUS PEAK FLOW			828	Mar 20	21200	Aug 17 1985
INSTANTANEOUS PEAK STAGE			2.94	Mar 20	19.50	Aug 17 1985
INSTANTANEOUS LOW FLOW			36	May 28	7.1	Sep 8 1932
10 PERCENT EXCEEDS	176		179		317	
50 PERCENT EXCEEDS	110		105		156	
90 PERCENT EXCEEDS	63		68		83	

† Change in contents, equivalent in cubic feet per second, in Talbott and Townes Reservoirs by City of Danville, Virginia.
‡ Adjusted for change in contents.
* Regulated period only (1938-2000). See REMARKS.
@ See PERIOD OF RECORD.

02068500 DAN RIVER NEAR FRANCISCO, NC--Continued



02070500 MAYO RIVER NEAR PRICE, NC

LOCATION.--Lat 36°32'05", long 79°59'30", Rockingham County, Hydrologic Unit 03010103, on right bank 350 ft downstream from Anglins Bridge on Secondary Road 1358, 0.5 mi downstream from confluence of North and South Mayo Rivers, 0.8 mi downstream from Virginia-North Carolina state line, and 4.0 mi west of Price.

DRAINAGE AREA.--242 mi^2.

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

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

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

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

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	464	135	131	152	e160	184	203	368	149	137	120	116
2	300	166	128	151	e158	180	201	343	145	124	153	150
3	237	262	128	152	e160	175	274	322	143	116	155	514
4	211	174	128	171	e170	172	287	307	208	110	118	272
5	217	157	128	243	e174	170	270	295	184	125	110	321
6	185	151	158	182	178	166	231	285	314	129	91	172
7	170	147	167	170	180	165	220	274	206	116	86	138
8	157	143	143	163	191	164	231	264	161	102	79	122
9	154	140	139	178	191	162	274	256	148	100	87	114
10	194	140	140	754	195	162	224	248	139	97	189	105
11	294	141	155	535	201	163	211	238	132	89	105	98
12	221	140	145	309	256	211	206	232	126	110	77	93
13	189	138	141	256	299	176	205	228	123	133	68	88
14	183	138	704	220	326	165	228	222	124	139	67	90
15	166	133	472	203	312	161	219	212	218	132	64	277
16	158	129	295	198	260	189	248	206	451	116	60	139
17	155	127	238	190	235	302	258	208	224	101	57	101
18	151	123	211	193	254	222	1010	213	186	86	57	95
19	143	123	195	190	285	195	607	212	175	81	63	609
20	175	126	196	202	248	319	427	230	178	79	60	323
21	241	127	208	189	228	1600	366	266	161	77	57	190
22	181	134	210	e188	217	586	327	380	151	72	60	153
23	163	138	194	e180	209	391	304	226	141	74	56	149
24	152	136	182	e176	201	321	290	179	132	91	53	144
25	146	132	175	e174	197	287	738	169	125	124	58	136
26	145	149	168	e172	191	271	888	175	133	109	65	344
27	143	207	169	e170	188	249	574	157	132	102	62	234
28	139	159	164	e168	221	245	470	167	140	110	247	177
29	138	145	160	e164	194	225	482	209	183	98	172	150
30	138	136	155	e162	---	220	413	173	169	83	105	137
31	137	---	153	e160	---	214	---	156	---	82	103	---
TOTAL	5847	4396	6080	6715	6279	8412	10886	7420	5201	3244	2904	5751
MEAN	189	147	196	217	217	271	363	239	173	105	93.7	192
MAX	464	262	704	754	326	1600	1010	380	451	139	247	609
MIN	137	123	128	151	158	161	201	156	123	72	53	88
CFSM	.78	.61	.81	.90	.89	1.12	1.50	.99	.72	.43	.39	.79
IN.	.90	.68	.93	1.03	.97	1.29	1.67	1.14	.80	.50	.45	.88

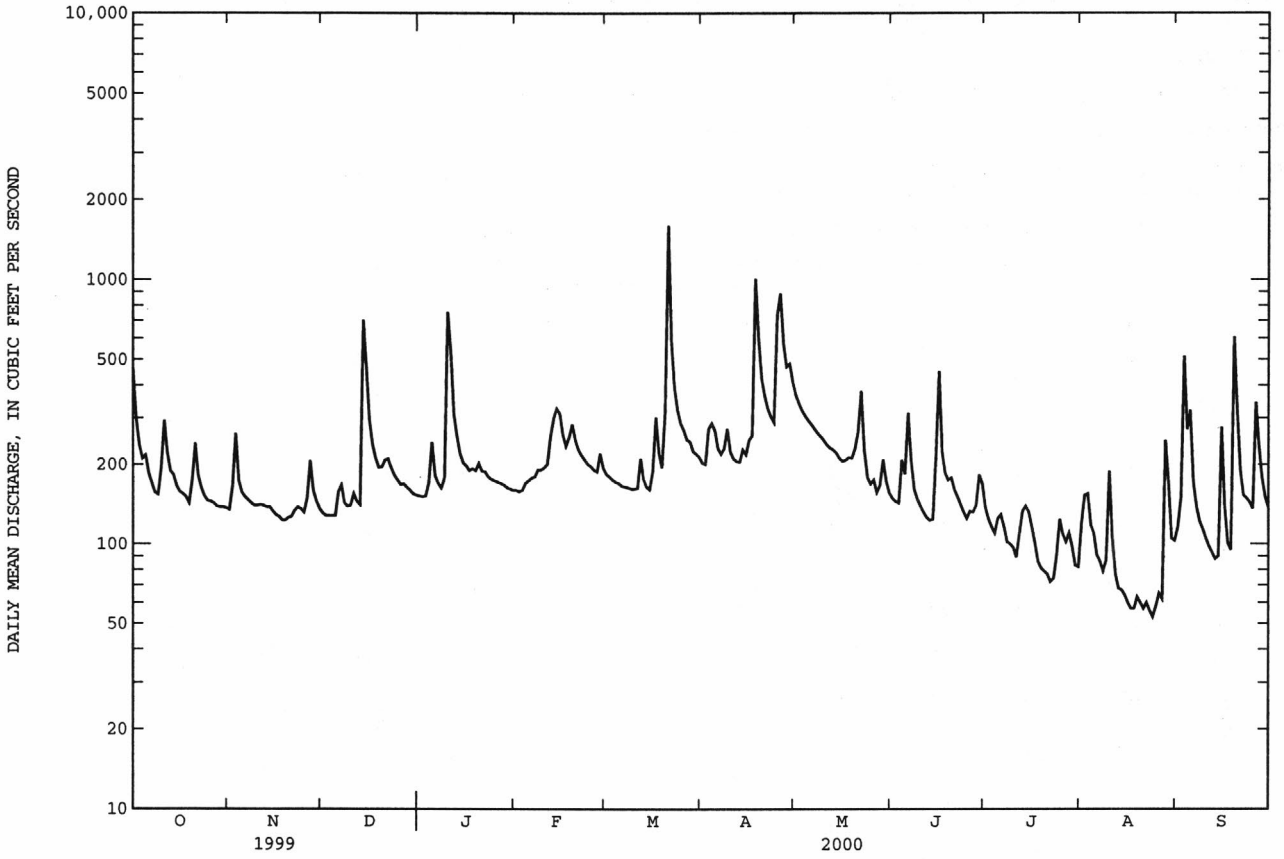
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000@, BY WATER YEAR (WY)

MEAN	274	245	292	362	396	427	397	326	289	253	254	246
MAX	1250	578	661	1022	900	982	694	659	654	609	943	1002
(WY)	1938	1958	1997	1936	1960	1994	1958	1949	1943	1949	1940	1945
MIN	84.5	95.9	118	112	139	221	175	157	123	103	89.9	62.0
(WY)	1932	1932	1956	1956	1931	1940	1967	1956	1999	1966	1930	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000@	
ANNUAL TOTAL	73667		73135			
ANNUAL MEAN	202		200		313	
HIGHEST ANNUAL MEAN					479	1949
LOWEST ANNUAL MEAN					170	1956
HIGHEST DAILY MEAN	1750	Sep 30	1600	Mar 21	11400	Sep 18 1945
LOWEST DAILY MEAN	48	Aug 19	53	Aug 24	35	Oct 8 1954
ANNUAL SEVEN-DAY MINIMUM	57	Aug 13	58	Aug 18	45	Sep 19 1956
INSTANTANEOUS PEAK FLOW			2440	Mar 21	30000	Oct 19 1937
INSTANTANEOUS PEAK STAGE			4.45	Mar 21	14.00	Oct 19 1937
INSTANTANEOUS LOW FLOW			52	Aug 24	32	Oct 8 1954
ANNUAL RUNOFF (CFSM)	.83		.83		1.29	
ANNUAL RUNOFF (INCHES)	11.32		11.24		17.57	
10 PERCENT EXCEEDS	304		305		498	
50 PERCENT EXCEEDS	174		170		235	
90 PERCENT EXCEEDS	102		98		127	

e Estimated.
@ See PERIOD OF RECORD.

02070500 MAYO RIVER NEAR PRICE, NC--Continued



02071000 DAN RIVER NEAR WENTWORTH, NC

LOCATION.--Lat 36°24'45", long 79°49'35", Rockingham County, Hydrologic Unit 03010103, on right bank 600 ft downstream of Settles Bridge on Secondary Road 2150, 3.5 mi northwest of Wentworth, 7.5 mi downstream of Mayo River, and 103.7 mi upstream from mouth.

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

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

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

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Slight fluctuation and regulation at low flow caused by Talbott and Townes Reservoirs (stations 02067800 and 02067820). Maximum gage height for period of record, from high-water mark in gage well. Minimum discharge for current water year also occurred Aug. 25.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e964	474	471	545	791	675	723	1240	489	442	867	365
2	e510	475	493	543	797	660	706	1110	464	385	633	602
3	e541	716	459	537	797	638	2870	1000	465	388	665	1360
4	e642	622	461	594	837	616	2460	e902	643	332	528	1060
5	e648	523	445	918	827	602	1430	778	663	365	412	999
6	e590	499	530	769	807	595	1120	742	1440	432	347	714
7	e549	479	656	689	814	618	960	743	993	410	309	505
8	497	476	570	654	891	590	909	720	628	339	328	421
9	486	473	533	735	885	582	1160	685	534	304	271	384
10	524	471	527	2330	885	583	973	670	484	294	703	358
11	882	472	561	2950	892	576	872	625	446	322	528	323
12	805	492	624	1340	1110	676	847	569	413	288	347	303
13	641	473	562	1020	1450	680	816	565	394	347	268	297
14	593	467	1640	886	1600	619	857	640	433	419	278	316
15	548	461	2070	802	1610	576	894	618	509	397	235	2330
16	504	453	1180	730	1180	610	994	516	931	332	219	1480
17	502	440	861	701	1020	1570	1490	512	728	361	214	581
18	522	430	738	724	972	1240	2840	540	525	271	208	428
19	471	425	677	739	1030	981	2390	520	505	248	227	2510
20	511	433	654	794	942	1010	1540	542	557	236	246	1870
21	762	442	735	760	874	5630	1250	660	479	242	221	1040
22	673	447	900	600	800	2610	1070	797	432	305	212	929
23	561	470	809	726	783	1540	904	813	405	259	e206	624
24	518	477	740	694	758	1160	845	628	383	267	e198	547
25	485	468	687	717	735	1030	1210	563	360	394	203	537
26	505	527	621	706	716	960	2380	562	376	354	212	e1820
27	481	698	612	599	701	889	1590	538	534	319	214	1190
28	466	644	595	509	763	863	1300	513	424	305	734	723
29	443	529	576	676	775	799	1500	800	508	609	862	579
30	440	e493	556	745	---	777	1400	595	570	418	419	508
31	441	---	552	896	---	768	---	527	---	514	347	---
TOTAL	17705	14949	22095	26628	27042	31723	40300	21233	16715	10898	11661	25703
MEAN	571	498	713	859	932	1023	1343	685	557	352	376	857
MAX	964	716	2070	2950	1610	5630	2870	1240	1440	609	867	2510
MIN	440	425	445	509	701	576	706	512	360	236	198	297
CFSM	.54	.47	.68	.82	.89	.97	1.28	.65	.53	.33	.36	.81
IN.	.63	.53	.78	.94	.96	1.12	1.42	.75	.59	.39	.41	.91

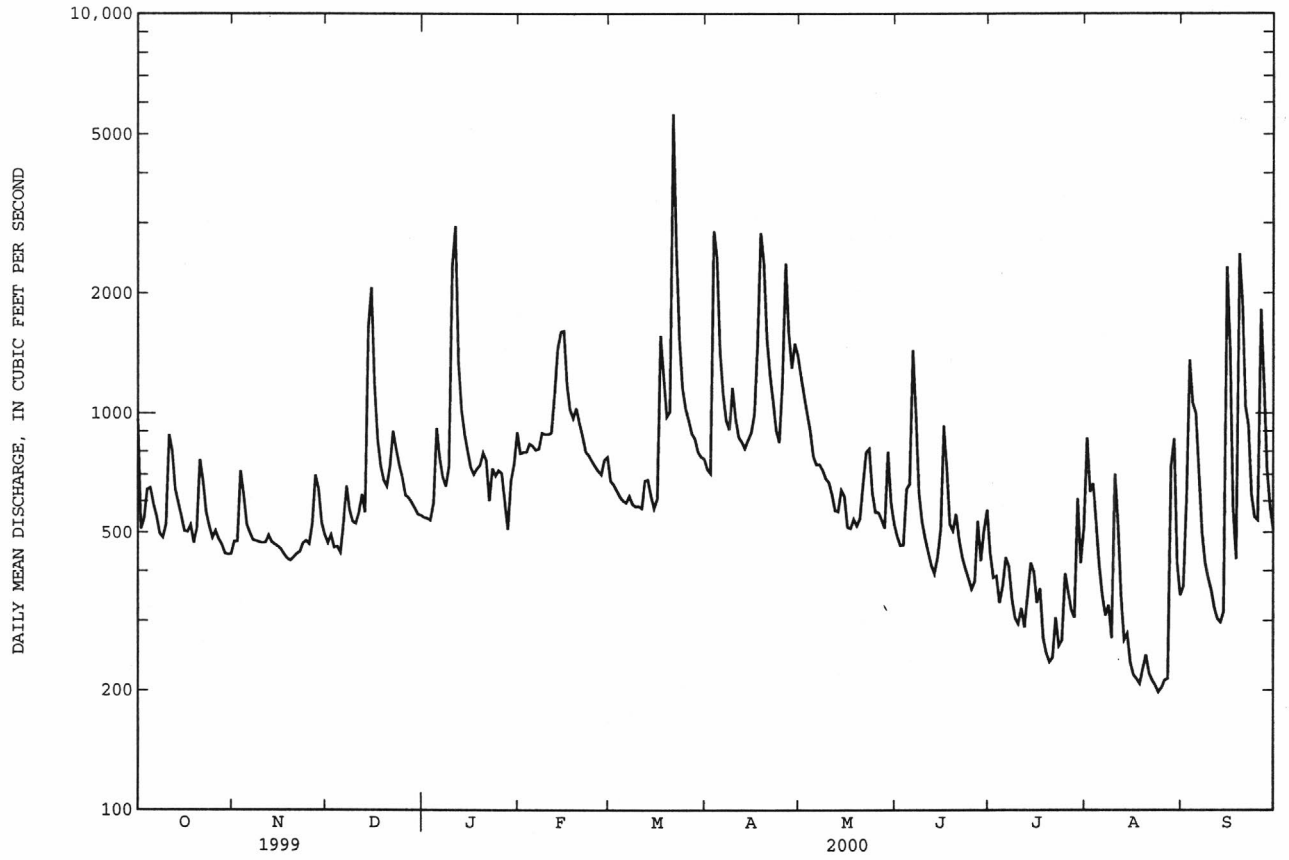
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	900	910	1140	1411	1621	1875	1697	1308	1088	904	824	856
MAX	3676	2963	2458	3274	4308	5345	4951	3149	4220	2345	3067	3667
(WY)	1960	1958	1997	1978	1960	1975	1987	1972	1972	1949	1940	1979
MIN	237	297	422	392	771	661	592	515	333	268	218	166
(WY)	1954	1954	1956	1956	1941	1985	1985	1981	1986	1986	1981	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	253168		266652			
ANNUAL MEAN	694		729		1210	
HIGHEST ANNUAL MEAN					1985	1960
LOWEST ANNUAL MEAN					587	1981
HIGHEST DAILY MEAN	5430	Apr 30	5630	Mar 21	47800	Jun 22 1972
LOWEST DAILY MEAN	156	Aug 18	198	Aug 24	107	Oct 2 1954
ANNUAL SEVEN-DAY MINIMUM	196	Aug 13	209	Aug 21	126	Oct 6 1954
INSTANTANEOUS PEAK FLOW			7390	Mar 21	54200	Jun 22 1972
INSTANTANEOUS PEAK STAGE			10.88	Mar 21	31.60	Jun 22 1972
INSTANTANEOUS LOW FLOW			196*	Aug 24	65	Oct 8 1954
ANNUAL RUNOFF (CFSM)	.66		.69		1.15	
ANNUAL RUNOFF (INCHES)	8.94		9.42		15.61	
10 PERCENT EXCEEDS	1020		1180		2020	
50 PERCENT EXCEEDS	583		601		832	
90 PERCENT EXCEEDS	297		332		414	

e Estimated.
* See REMARKS.

02071000 DAN RIVER NEAR WENTWORTH, NC--Continued



02074000 SMITH RIVER AT EDEN, NC

LOCATION.--Lat 36°31'31", long 79°45'57", Rockingham County, Hydrologic Unit 03010103, on right bank at Eden, 0.3 mi downstream of bridge on State Highway 14, 0.8 mi upstream from bridge on Secondary Road 1714, 1.2 mi south of Virginia-North Carolina State line, 1.3 mi downstream of Stuart Creek, and 3.9 mi upstream from mouth.

DRAINAGE AREA.--538 mi^2.

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

REVISED RECORDS.--WSP 1433: 1946.

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since August 1950 by Philpott Lake, 40 mi upstream (usable capacity, 6,325,000,000 ft^3). Additional regulation by hydroelectric plant at Martinsville, Virginia, 18 mi upstream. Maximum discharge prior to regulation: 45,600 ft^3/s, Aug. 15, 1940, from rating curve extended above 12,000 ft^3/s on the basis of computation of peak flow over dam 1.5 mi downstream; gage height: 19.28 ft. Minimum discharge for current water year also occurred 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	904	202	290	190	348	282	229	491	315	253	236	308
2	568	368	278	185	385	273	336	489	365	251	266	475
3	330	461	282	289	268	273	531	460	331	232	266	2700
4	323	467	174	339	425	233	468	447	328	232	259	642
5	413	346	171	441	226	253	432	434	457	211	252	1170
6	333	228	325	349	241	319	372	393	886	254	226	398
7	311	210	327	322	355	257	358	419	506	244	213	333
8	318	311	299	206	367	276	314	407	373	220	180	313
9	314	317	e288	239	363	258	571	421	302	198	232	278
10	226	315	290	973	368	272	522	380	306	222	498	258
11	363	318	198	922	359	192	404	313	286	223	350	255
12	410	312	184	543	319	296	365	400	277	351	227	189
13	387	188	287	445	441	378	386	388	285	310	212	274
14	374	189	1070	426	532	265	387	329	260	281	194	222
15	362	293	725	253	443	286	283	407	341	283	201	268
16	358	287	494	243	375	301	431	359	977	247	189	280
17	233	283	398	343	344	615	458	346	366	227	188	224
18	230	281	255	327	377	369	1370	340	344	222	183	218
19	348	287	237	335	377	323	1050	338	332	208	155	924
20	503	172	345	336	397	409	644	331	388	204	202	606
21	484	177	367	340	451	1580	516	396	338	201	184	335
22	409	302	381	225	334	829	465	593	303	201	184	308
23	290	329	354	222	310	521	445	555	277	191	185	285
24	203	304	337	321	308	451	440	404	262	214	180	286
25	336	275	226	346	305	309	802	373	241	223	178	274
26	331	335	213	318	202	388	930	373	250	225	184	636
27	336	302	312	298	279	448	653	347	263	230	124	391
28	332	225	303	296	393	358	590	313	248	209	936	319
29	331	283	296	228	313	349	612	680	271	196	413	289
30	207	297	296	232	---	354	573	432	303	228	316	268
31	204	---	280	404	---	330	---	327	---	230	291	---
TOTAL	11071	8664	10282	10936	10205	12047	15937	12685	10781	7221	7904	13726
MEAN	357	289	332	353	352	389	531	409	359	233	255	458
MAX	904	467	1070	973	532	1580	1370	680	977	351	936	2700
MIN	203	172	171	185	202	192	229	313	241	191	124	189
†	-14	+1515	-1445	+13	+25	+147	+182	+52	+10	-30	-37	+81

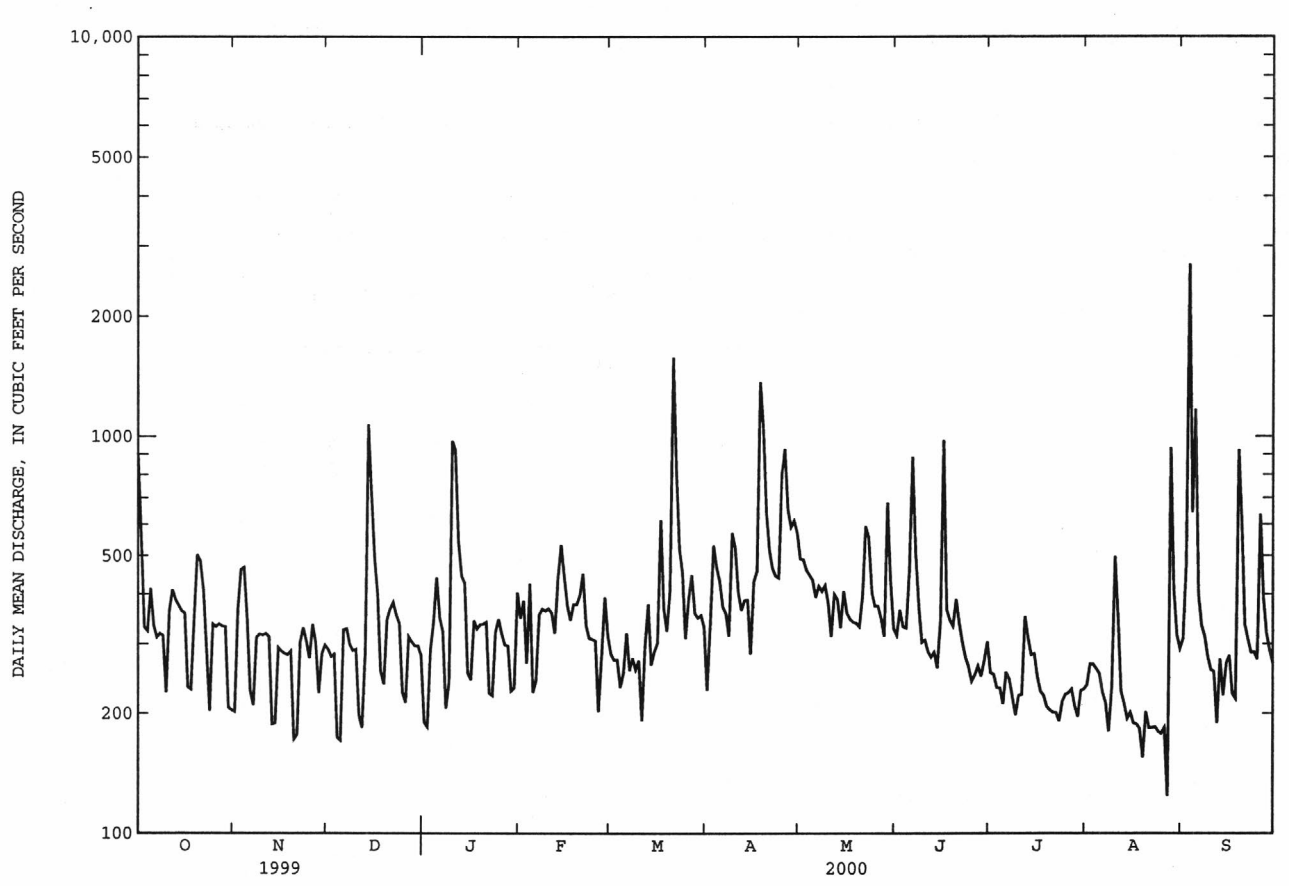
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000*, BY WATER YEAR (WY)

MEAN	513	502	589	695	741	900	894	707	640	509	492	532
MAX	1572	1530	1376	1453	1633	2519	3016	1567	2026	1374	1454	2030
(WY)	1990	1986	1997	1979	1998	1993	1987	1978	1972	1989	1985	1996
MIN	201	211	273	291	325	331	294	266	213	214	194	248
(WY)	1952	1982	1981	1989	1968	1967	1967	1964	1964	1981	1953	1951

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000*	
ANNUAL TOTAL	144842		131459			
ANNUAL MEAN	397	‡434	359		642	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1010	1987
LOWEST ANNUAL MEAN					309	1981
HIGHEST DAILY MEAN	3360	Sep 30	2700	Sep 3	16700	Jun 21 1972
LOWEST DAILY MEAN	93	Aug 22	124	Aug 27	46	Aug 14 1967
ANNUAL SEVEN-DAY MINIMUM	234	Sep 20	174	Aug 21	130	Aug 21 1964
INSTANTANEOUS PEAK FLOW			5710	Sep 3	24800	Jun 21 1972
INSTANTANEOUS PEAK STAGE			7.44	Sep 3	16.24	Jun 21 1972
INSTANTANEOUS LOW FLOW			72*	Aug 26	38	Aug 7 1967
10 PERCENT EXCEEDS	565		518		1170	
50 PERCENT EXCEEDS	358		316		452	
90 PERCENT EXCEEDS	190		204		226	

e Estimated.
† Change in contents, equivalent in cubic feet per second, in Philpott Lake provided by U.S. Army Corps of Engineers.
‡ Adjusted for change in contents.
* Regulated period only (1951-2000). See REMARKS.

02074000 SMITH RIVER AT EDEN, NC--Continued



02077200 HYCO CREEK NEAR LEASBURG, NC

LOCATION.--Lat 36°23'57", long 79°11'50", Caswell County, Hydrologic Unit 03010104, on right bank 10 ft upstream from bridge on U.S. Highway 158, 1.5 mi upstream from Kilgore Creek, and 2.5 mi west of Leasburg.

DRAINAGE AREA.--45.9 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Periods of no flow occur most years. Maximum gage height for period of record from floodmark; maximum discharge for period of record 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	83	13	17	16	143	27	e24	81	7.9	33	4.7	11
2	51	14	15	15	116	25	24	61	6.7	18	6.5	8.7
3	34	17	15	14	98	22	50	49	6.0	12	6.5	93
4	27	14	14	16	110	21	56	40	5.8	8.5	6.3	33
5	23	12	13	28	114	19	41	32	5.7	7.2	12	16
6	17	11	14	22	97	17	32	27	7.4	6.6	8.0	11
7	14	11	16	18	87	16	27	22	6.7	5.8	5.4	7.9
8	12	11	12	15	88	15	40	18	5.3	5.2	4.2	6.0
9	10	10	11	19	78	15	137	16	4.8	4.8	3.3	4.7
10	10	10	13	177	71	14	72	13	4.4	4.4	46	4.0
11	23	10	15	210	66	13	52	11	4.0	4.2	31	e3.8
12	16	9.9	13	87	105	19	42	10	3.6	7.6	10	e3.4
13	12	9.7	12	65	141	14	35	9.7	3.4	8.0	14	e3.2
14	30	9.9	53	52	150	12	43	8.8	12	6.9	9.7	e3.1
15	18	9.2	74	44	130	12	42	8.3	42	43	5.9	3.0
16	13	8.6	48	40	85	13	117	7.9	337	16	4.6	2.7
17	13	8.3	36	35	69	157	91	7.7	46	7.7	3.7	2.4
18	31	8.1	30	31	81	88	346	7.4	19	5.2	3.5	2.2
19	22	8.3	26	30	110	57	151	7.0	69	4.1	3.4	2.6
20	62	9.1	25	35	78	57	86	6.6	64	3.7	2.9	3.3
21	147	8.6	30	43	64	144	67	10	23	3.7	2.5	3.3
22	80	9.2	51	34	55	92	55	12	13	4.1	2.3	2.8
23	54	11	47	32	50	67	45	10	9.5	4.8	2.2	3.9
24	37	9.7	38	33	47	55	37	8.0	7.6	48	2.0	8.0
25	27	9.0	32	e31	43	47	52	7.4	6.4	41	2.0	7.6
26	22	15	28	e31	38	43	56	8.3	5.4	22	2.6	31
27	20	59	27	e31	35	39	230	7.1	10	14	4.3	20
28	16	39	24	e31	35	48	163	17	114	9.1	46	8.3
29	15	26	22	35	30	37	332	27	136	7.1	25	5.6
30	14	20	19	e72	---	32	132	12	92	5.7	9.7	4.4
31	13	---	17	e259	---	31	---	9.1	---	4.9	10	---
TOTAL	966	420.6	807	1601	2414	1268	2677	571.3	1077.6	376.3	300.2	319.9
MEAN	31.2	14.0	26.0	51.6	83.2	40.9	89.2	18.4	35.9	12.1	9.68	10.7
MAX	147	59	74	259	150	157	346	81	337	48	46	93
MIN	10	8.1	11	14	30	12	24	6.6	3.4	3.7	2.0	2.2
CFSM	.68	.31	.57	1.13	1.81	.89	1.94	.40	.78	.26	.21	.23
IN.	.78	.34	.65	1.30	1.96	1.03	2.17	.46	.87	.30	.24	.26

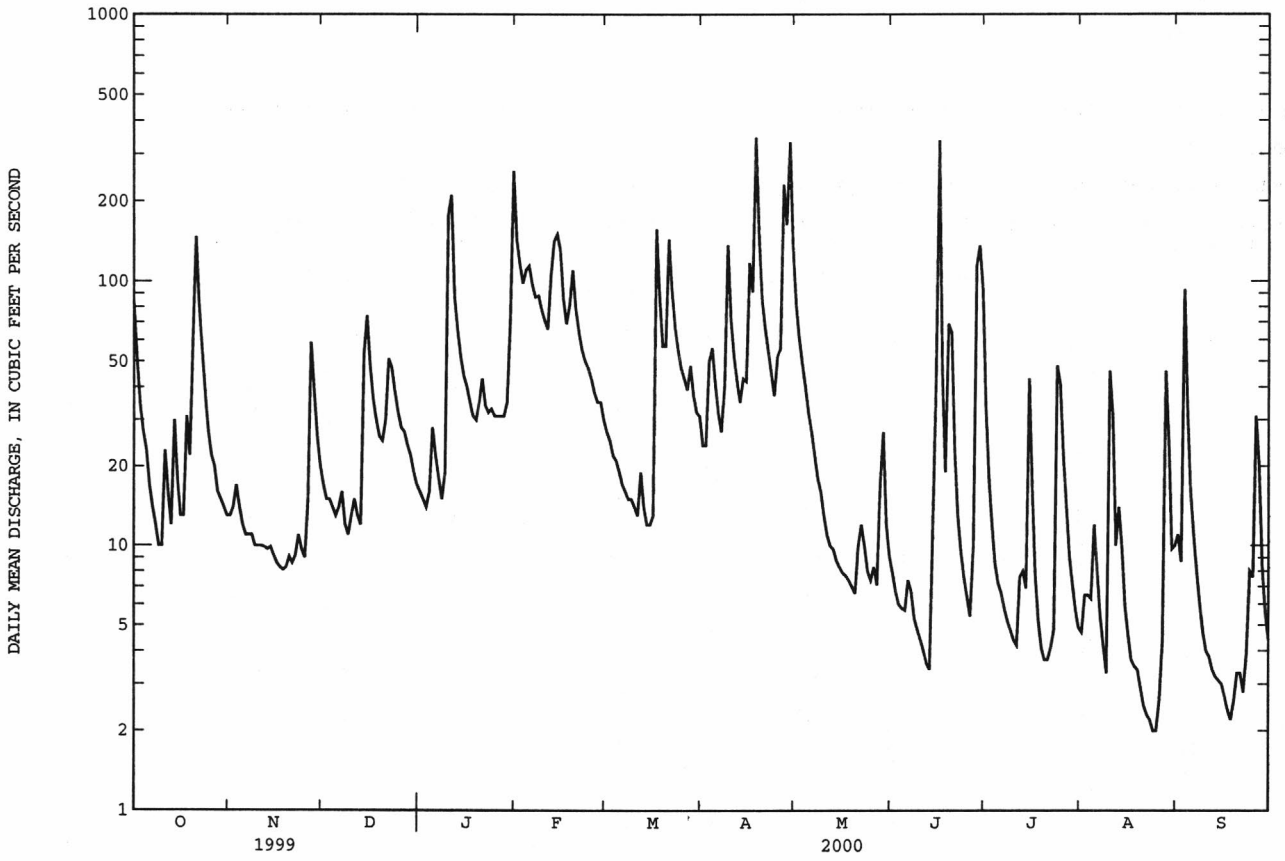
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	24.8	27.5	46.3	84.4	91.3	94.2	61.9	33.4	25.2	23.3	21.8	25.8
MAX	131	137	144	278	244	266	188	184	233	274	264	193
(WY)	1996	1973	1973	1978	1979	1975	1997	1978	1995	1975	1995	1996
MIN	.000	.64	4.77	6.15	19.7	23.1	8.63	4.30	1.80	.11	.026	.000
(WY)	1969	1999	1966	1981	1968	1976	1995	1995	1986	1966	1987	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	13036.08		12798.9			
ANNUAL MEAN	35.7		35.0		46.5	
HIGHEST ANNUAL MEAN					92.3	1975
LOWEST ANNUAL MEAN					15.2	1981
HIGHEST DAILY MEAN	2210	Sep 16	346	Apr 18	7400	Aug 28 1995
LOWEST DAILY MEAN	.00	Aug 7	2.0	Aug 24	.00*	Jul 9 1966
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 7	2.4	Aug 20	.00*	Jul 9 1966
INSTANTANEOUS PEAK FLOW			654	Jun 16	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			31.86	Jun 16	48.53	Aug 27 1995
INSTANTANEOUS LOW FLOW			1.8	Aug 25	.00*	Jul 8 1966
ANNUAL RUNOFF (CFSM)	.78		.76		1.01	
ANNUAL RUNOFF (INCHES)	10.57		10.37		13.76	
10 PERCENT EXCEEDS	54		86		89	
50 PERCENT EXCEEDS	17		17		15	
90 PERCENT EXCEEDS	.41		4.4		.90	

e Estimated.
* See REMARKS.

02077200 HYCO CREEK NEAR LEASBURG, NC--Continued



02077200 HYCO CREEK NEAR LEASBURG, NC--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1964 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 31.3°C, July 17, 1996; minimum recorded, 0.0°C, several days during winter months in most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 28.5°C, Aug. 8; minimum recorded, 0.0°C, several days.

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	18.4	16.1	16.9	15.5	13.2	14.4	6.0	3.8	4.8	6.1	4.4	5.2
2	16.9	15.3	16.3	16.7	14.8	15.6	4.4	2.6	3.6	8.1	5.9	7.0
3	18.1	16.4	17.2	15.0	10.4	12.7	5.5	3.4	4.4	10.1	7.9	8.9
4	18.4	17.6	18.0	10.4	8.4	9.5	7.3	5.1	6.2	12.3	10.1	11.3
5	17.9	16.6	17.3	10.4	7.7	9.1	9.2	6.4	7.7	11.7	7.4	9.3
6	16.6	14.7	15.7	11.6	8.4	10.0	11.5	9.2	10.5	7.4	4.6	5.9
7	15.9	14.0	15.0	12.5	10.3	11.3	10.1	6.9	8.2	7.5	6.2	6.7
8	15.8	13.9	14.8	11.3	9.2	10.3	7.0	5.3	6.3	6.2	4.1	5.1
9	16.7	14.7	15.6	12.3	9.3	10.8	---	---	---	6.8	5.5	6.1
10	18.0	16.7	17.4	13.8	11.1	12.4	9.5	7.0	8.4	9.6	6.8	8.1
11	19.3	17.8	18.5	14.2	12.4	13.3	8.7	6.3	7.4	9.2	7.8	8.4
12	19.2	18.2	18.7	13.8	11.6	13.0	6.9	5.1	6.0	8.3	6.3	7.1
13	18.2	17.1	17.4	12.3	9.9	11.2	8.9	6.9	8.1	8.7	6.9	7.6
14	17.4	16.1	16.9	13.4	10.6	12.0	11.2	8.9	10.1	7.5	3.9	5.6
15	16.1	13.6	14.7	12.8	10.3	11.6	10.8	8.6	9.4	3.9	2.3	3.0
16	16.0	14.0	14.9	10.3	8.1	9.0	8.6	6.7	7.7	5.9	2.9	4.3
17	16.9	15.9	16.5	8.1	6.1	7.2	6.7	4.7	5.8	5.9	4.5	5.1
18	17.1	15.9	16.6	7.7	5.4	6.6	6.0	4.1	5.3	4.6	2.8	3.3
19	15.9	13.8	14.5	8.4	5.3	6.9	7.1	5.5	6.2	3.3	1.9	2.7
20	14.6	14.1	14.4	11.0	7.9	9.4	7.7	6.9	7.2	3.9	1.8	2.8
21	14.2	13.5	13.9	11.8	9.6	10.8	8.4	7.7	8.0	3.2	1.3	1.9
22	14.1	12.1	13.1	13.8	11.5	12.5	8.4	6.6	7.8	1.3	.0	.6
23	13.3	11.8	12.6	13.4	12.7	13.1	6.6	5.1	5.8	1.2	.7	1.0
24	11.8	10.3	10.9	14.7	13.4	14.0	5.1	3.7	4.2	2.7	1.2	1.9
25	10.7	8.7	9.9	15.3	14.2	14.7	3.9	2.0	2.8	2.3	.0	.3
26	11.1	8.8	10.1	15.2	14.4	14.8	2.9	.8	1.9	.2	.0	.1
27	11.7	9.5	10.6	14.9	12.1	13.5	3.0	1.4	2.4	.2	.0	.1
28	11.3	9.4	10.5	12.1	10.2	11.1	3.5	2.3	3.0	.1	.0	.1
29	12.0	9.8	10.9	10.9	8.8	9.6	4.0	2.7	3.3	.2	.0	.1
30	12.9	10.5	11.6	8.9	6.0	7.4	4.3	2.3	3.4	.1	.0	.1
31	14.8	12.2	13.4	---	---	---	5.3	3.6	4.5	1.2	.1	.5
MONTH	19.3	8.7	14.7	16.7	5.3	11.3	---	---	---	12.3	.0	4.2

02077200 HYCO CREEK NEAR LEASBURG, 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	2.1	.4	1.3	12.0	8.5	10.5	16.1	10.6	13.7	17.2	14.2	15.7
2	2.5	.8	1.8	12.8	9.9	11.4	---	---	---	17.8	16.6	17.2
3	3.1	1.2	2.2	12.0	8.9	10.7	17.3	14.4	15.6	18.7	15.7	17.2
4	4.1	2.3	3.2	11.5	8.9	10.4	17.2	14.3	16.4	19.5	16.5	18.0
5	4.0	2.7	3.5	11.7	7.9	10.1	15.0	11.3	13.4	20.4	17.1	18.7
6	4.3	2.8	3.7	12.8	9.1	11.2	17.2	11.5	14.3	21.7	18.3	20.0
7	5.5	3.6	4.6	13.8	10.0	12.2	19.5	14.1	17.0	23.0	19.6	21.2
8	5.4	4.0	4.8	15.6	11.6	13.7	19.1	13.3	16.6	22.8	19.9	21.4
9	5.7	3.6	4.8	16.1	13.4	15.0	13.5	10.7	12.3	23.8	20.7	22.1
10	6.5	4.2	5.4	16.9	13.9	15.6	15.3	11.2	13.3	23.7	21.1	22.2
11	8.7	6.1	7.3	17.3	14.3	15.9	17.9	14.1	15.9	22.0	18.8	20.5
12	8.5	5.5	7.1	16.7	12.4	15.1	19.3	16.6	17.8	22.8	18.7	20.6
13	5.5	4.6	4.8	12.4	9.0	10.8	17.8	12.2	14.4	24.9	20.8	22.6
14	8.3	4.9	6.4	12.4	8.3	10.4	12.2	10.9	11.2	23.7	21.3	22.4
15	8.3	6.9	7.7	14.1	10.1	12.0	13.1	11.2	11.9	21.3	18.1	19.5
16	9.2	6.6	7.9	13.8	11.8	12.7	18.2	13.1	15.0	19.6	16.0	17.8
17	9.0	7.5	8.3	15.6	13.7	14.4	19.3	17.0	18.2	20.6	17.3	18.8
18	7.9	6.6	7.0	14.1	10.2	11.5	18.2	13.2	15.0	22.8	19.2	20.8
19	10.1	7.0	8.5	10.6	9.3	10.1	16.4	12.1	13.8	24.2	20.8	22.3
20	10.0	7.7	8.6	10.4	9.8	10.1	17.8	14.7	16.2	25.0	22.0	23.3
21	8.1	6.0	7.2	11.0	9.7	10.3	18.4	17.2	17.8	23.5	21.2	22.0
22	---	---	---	11.2	10.0	10.6	17.4	14.9	15.8	23.0	20.7	21.6
23	9.6	7.1	8.3	13.3	10.7	11.9	16.4	13.4	15.0	21.6	19.3	20.2
24	11.0	8.0	9.4	15.0	10.8	12.9	15.8	14.2	14.9	23.8	19.9	21.6
25	13.3	9.7	11.5	17.0	12.7	14.9	14.8	12.6	13.6	23.1	22.0	22.5
26	14.4	11.1	12.8	18.1	15.0	16.5	13.1	11.6	12.3	23.0	19.8	21.4
27	14.5	12.2	13.5	16.1	13.1	14.1	14.6	12.3	13.1	23.3	19.7	21.4
28	14.1	12.1	13.1	14.4	11.9	13.2	14.6	12.7	13.5	22.5	20.2	21.4
29	12.3	8.9	10.9	14.1	10.5	12.4	14.6	12.0	13.1	20.2	17.7	19.2
30	---	---	---	13.7	11.9	12.8	16.1	12.7	14.2	17.7	16.0	16.7
31	---	---	---	15.0	10.3	12.8	---	---	---	19.1	14.7	16.7
MONTH	---	---	---	18.1	7.9	12.5	---	---	---	25.0	14.2	20.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	17.4	19.2	23.4	20.8	22.1	26.0	23.6	24.6	24.7	23.5	24.1
2	24.5	20.1	22.0	23.9	20.8	22.4	26.0	23.3	24.7	24.2	23.3	23.7
3	24.4	22.0	23.2	25.5	22.4	23.8	25.3	24.3	24.8	23.6	22.8	23.2
4	23.2	21.6	22.2	25.1	23.7	24.4	26.0	24.1	24.8	23.3	22.6	23.0
5	21.6	20.7	21.1	24.9	23.5	24.3	24.5	23.0	23.9	23.0	19.7	21.5
6	22.5	20.3	21.1	26.6	23.9	25.0	25.9	22.9	24.3	19.7	18.3	18.8
7	21.4	18.0	19.7	25.7	23.8	24.6	27.9	24.7	26.1	19.9	17.8	18.8
8	21.3	17.5	19.4	24.9	22.9	23.9	28.5	25.5	26.8	21.1	18.3	19.6
9	22.9	18.7	20.8	26.1	23.0	24.4	28.1	25.4	26.6	22.2	19.4	20.7
10	24.5	20.5	22.4	27.2	24.2	25.6	26.6	23.3	24.9	22.3	20.0	21.2
11	25.2	21.6	23.4	26.5	24.8	25.6	26.0	24.2	25.1	---	---	---
12	25.9	22.6	24.2	25.5	23.7	24.5	25.1	23.0	24.0	---	---	---
13	26.9	23.4	25.1	23.7	23.0	23.3	23.4	20.5	21.9	---	---	---
14	25.9	22.7	24.5	25.0	22.5	23.6	22.9	19.8	21.2	---	---	---
15	25.7	21.8	23.6	24.8	21.6	23.2	24.3	20.8	22.4	23.2	20.8	21.9
16	23.5	21.5	22.4	24.9	22.2	23.5	25.6	22.2	23.7	20.8	17.4	18.6
17	25.0	23.0	23.9	25.5	22.5	23.9	25.0	22.1	23.7	17.5	14.6	16.2
18	26.3	24.0	25.1	26.1	22.5	24.2	24.2	22.8	23.5	16.5	15.0	15.8
19	25.4	22.9	24.0	25.9	23.9	24.9	24.3	21.9	23.0	20.4	16.4	18.0
20	22.9	21.4	21.9	25.2	23.3	23.9	22.7	20.5	21.3	21.6	18.2	19.8
21	24.1	21.6	22.7	24.1	22.0	23.0	21.9	18.9	20.3	22.0	20.5	21.1
22	24.6	23.3	23.9	23.4	22.0	22.4	22.1	18.2	20.1	21.3	19.6	20.1
23	25.0	22.1	23.6	22.6	21.4	22.0	22.2	19.0	20.7	19.9	19.1	19.5
24	25.2	22.5	23.9	22.1	21.0	21.5	23.3	20.8	21.9	21.8	18.8	20.2
25	26.7	23.2	24.7	21.0	20.3	20.5	24.4	21.9	22.9	21.7	18.0	20.7
26	27.0	23.9	25.3	21.3	20.1	20.6	23.9	22.0	23.0	18.0	16.5	17.2
27	26.7	23.8	24.9	23.7	20.8	22.1	23.5	21.7	22.6	18.0	16.0	16.9
28	24.3	23.1	23.4	25.1	22.0	23.4	22.6	20.3	21.6	17.4	14.9	16.1
29	23.1	22.1	22.6	25.3	22.9	24.0	23.0	21.8	22.4	17.2	15.0	16.0
30	22.7	21.0	22.0	26.0	22.9	24.3	22.7	22.0	22.4	17.1	14.7	15.9
31	---	---	---	25.7	23.8	24.6	24.4	22.2	23.2	---	---	---
MONTH	27.0	17.4	22.9	27.2	20.1	23.5	28.5	18.2	23.3	---	---	---

02077280 HYCO LAKE AT DAM NEAR ROXBORO, NC

LOCATION.--Lat 36°30'42", long 79°02'50", Person County, Hydrologic Unit 03010104, at spillway, off dam on Hyco River, 4.5 mi above Ghents Creek and 8 mi northwest of Roxboro.

DRAINAGE AREA.--189 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 419.81 ft above sea level. Satellite telemetry at station.

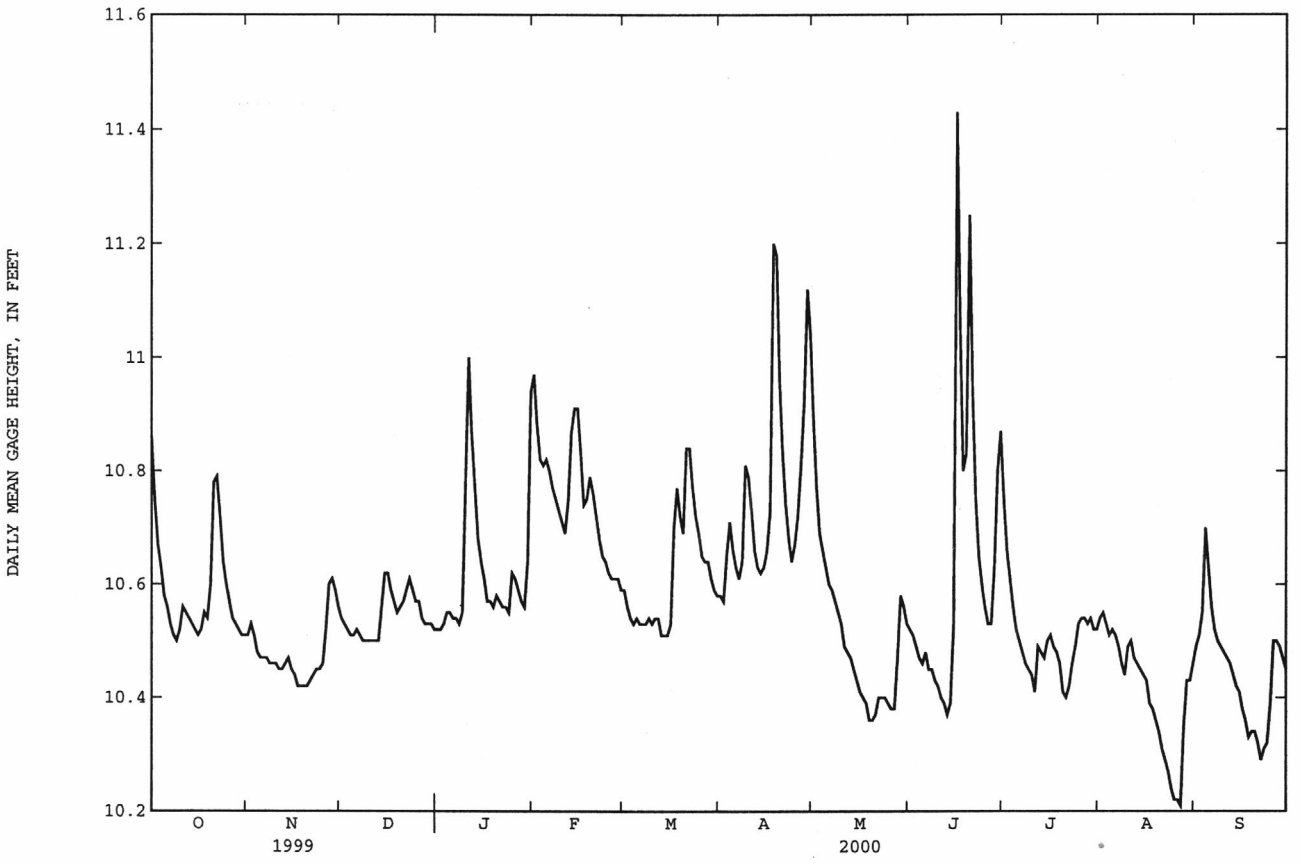
EXTREMES FOR PERIOD OF RECORD.--Maximum, 13.68 ft, Sept. 6, 1996; minimum, 8.07 ft, Oct. 13, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 11.60 ft, June 16; minimum; 10.18 ft, Aug. 27, 28.

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	10.86	10.51	10.54	10.52	10.97	10.59	10.58	10.89	10.52	10.75	10.54	10.49
2	10.75	10.53	10.53	10.52	10.88	10.56	10.57	10.77	10.51	10.66	10.55	10.51
3	10.67	10.51	10.52	10.53	10.82	10.54	10.65	10.69	10.49	10.61	10.53	10.55
4	10.63	10.48	10.51	10.55	10.81	10.53	10.71	10.66	10.47	10.56	10.51	10.70
5	10.58	10.47	10.51	10.55	10.82	10.54	10.66	10.63	10.46	10.52	10.52	10.63
6	10.56	10.47	10.52	10.54	10.80	10.53	10.63	10.60	10.48	10.50	10.51	10.56
7	10.53	10.47	10.51	10.54	10.77	10.53	10.61	10.59	10.45	10.48	10.49	10.52
8	10.51	10.46	10.50	10.53	10.75	10.53	10.64	10.57	10.45	10.46	10.46	10.50
9	10.50	10.46	10.50	10.55	10.73	10.54	10.81	10.55	10.43	10.45	10.44	10.49
10	10.52	10.46	10.50	10.78	10.71	10.53	10.79	10.53	10.42	10.44	10.49	10.48
11	10.56	10.45	10.50	11.00	10.69	10.54	10.73	10.49	10.40	10.41	10.50	10.47
12	10.55	10.45	10.50	10.86	10.75	10.54	10.66	10.48	10.39	10.49	10.47	10.46
13	10.54	10.46	10.50	10.77	10.87	10.51	10.63	10.47	10.37	10.48	10.46	10.44
14	10.53	10.47	10.56	10.68	10.91	10.51	10.62	10.45	10.39	10.47	10.45	10.42
15	10.52	10.45	10.62	10.64	10.91	10.51	10.63	10.43	10.53	10.50	10.44	10.41
16	10.51	10.44	10.62	10.61	10.83	10.53	10.66	10.41	11.43	10.51	10.43	10.38
17	10.52	10.42	10.59	10.57	10.74	10.70	10.73	10.40	11.06	10.49	10.39	10.36
18	10.55	10.42	10.57	10.57	10.75	10.77	11.20	10.39	10.80	10.48	10.38	10.33
19	10.54	10.42	10.55	10.56	10.79	10.72	11.18	10.36	10.83	10.46	10.36	10.34
20	10.60	10.42	10.56	10.58	10.76	10.69	10.96	10.36	11.25	10.41	10.34	10.34
21	10.78	10.43	10.57	10.57	10.72	10.84	10.83	10.37	10.94	10.40	10.31	10.32
22	10.79	10.44	10.59	10.56	10.68	10.84	10.74	10.40	10.75	10.42	10.29	10.29
23	10.72	10.45	10.61	10.56	10.65	10.77	10.68	10.40	10.65	10.46	10.27	10.31
24	10.64	10.45	10.59	10.55	10.64	10.72	10.64	10.40	10.60	10.49	10.24	10.32
25	10.60	10.46	10.57	10.62	10.62	10.69	10.67	10.39	10.56	10.53	10.22	10.39
26	10.57	10.52	10.57	10.61	10.61	10.65	10.72	10.38	10.53	10.54	10.22	10.50
27	10.54	10.60	10.54	10.59	10.61	10.64	10.81	10.38	10.53	10.54	10.21	10.50
28	10.53	10.61	10.53	10.57	10.61	10.64	10.92	10.47	10.63	10.53	10.35	10.49
29	10.52	10.59	10.53	10.56	10.59	10.61	11.12	10.58	10.80	10.54	10.43	10.47
30	10.51	10.56	10.53	10.64	---	10.59	11.04	10.56	10.87	10.52	10.43	10.45
31	10.51	---	10.52	10.94	---	10.58	---	10.53	---	10.52	10.46	---
MEAN	10.59	10.48	10.54	10.62	10.75	10.61	10.76	10.50	10.63	10.50	10.41	10.45
MAX	10.86	10.61	10.62	11.00	10.97	10.84	11.20	10.89	11.43	10.75	10.55	10.70
MIN	10.50	10.42	10.50	10.52	10.59	10.51	10.57	10.36	10.37	10.40	10.21	10.29

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



0207730290 AFTERBAY RESERVIOR AT DAM NEAR McGEHEES MILL, NC

LOCATION.--Lat 36°31'24", long 78°59'49", Person County, Hydrologic Unit 03010104, on Afterbay Reservoir dam on Hyco River, 1.2 mi upstream from Ghent Creek, and 1.8 mi northeast of McGehees Mill.

DRAINAGE AREA.--202 mi^2.

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

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

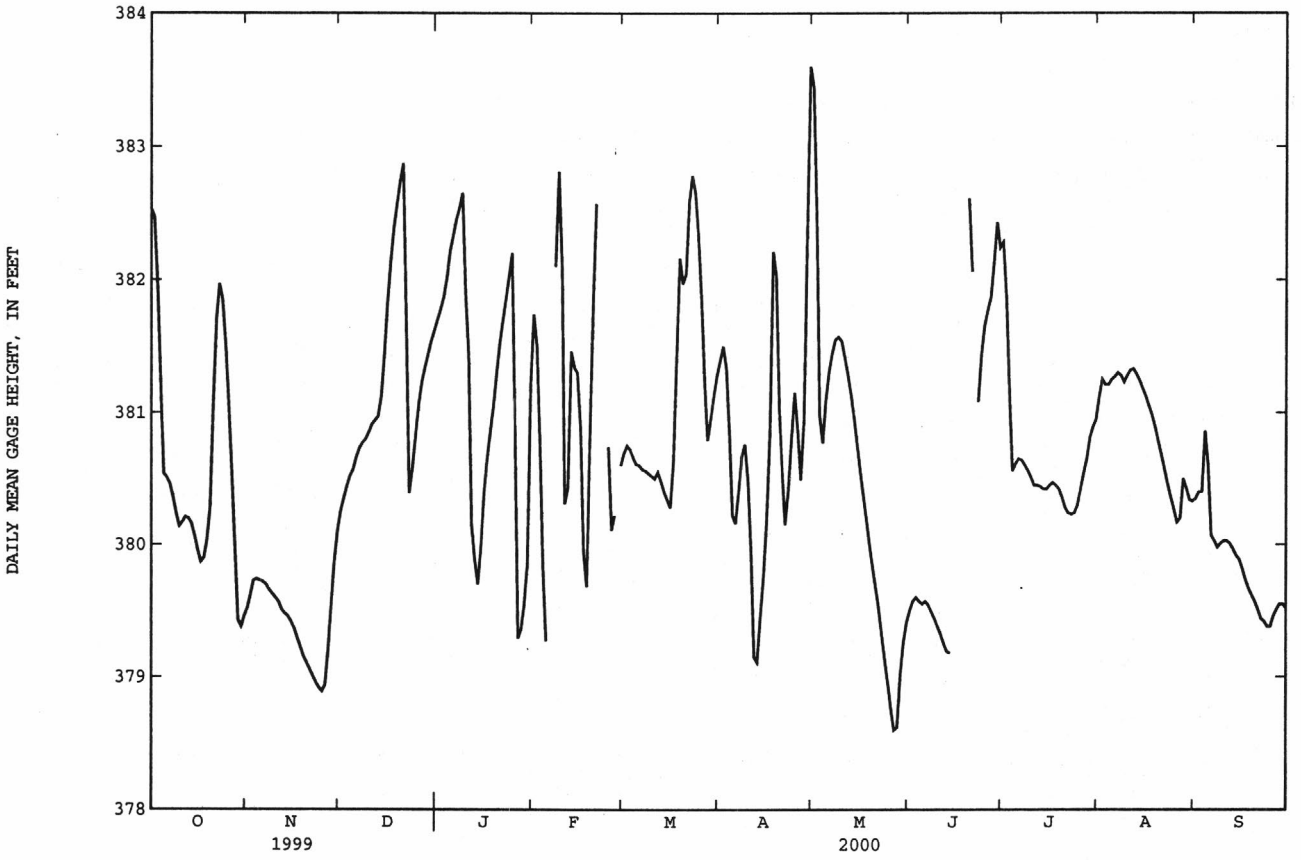
EXTREMES FOR PERIOD OF RECORD.--Maximum, 391.11 ft, Sept. 7, 1996; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum, 383.73 ft, Apr. 30; minimum, 378.56 ft, May 27.

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	382.53	379.52	380.25	381.70	381.74	380.69	381.39	383.45	379.50	382.28	381.12	380.35
2	382.47	379.62	380.35	381.78	381.50	380.75	381.50	382.45	379.57	381.86	381.25	380.40
3	381.96	379.73	380.44	381.87	380.77	380.72	381.33	380.98	379.60	381.16	381.21	380.40
4	381.21	379.74	380.52	382.01	379.83	380.66	380.84	380.77	379.57	380.56	381.21	380.86
5	380.54	379.73	380.57	382.21	379.27	380.61	380.22	381.10	379.55	380.61	381.25	380.60
6	380.51	379.72	380.66	382.33	---	380.60	380.16	381.31	379.57	380.65	381.27	380.07
7	380.46	379.70	380.73	382.45	---	380.57	380.40	381.45	379.54	380.64	381.30	380.03
8	380.36	379.66	380.77	382.54	382.10	380.56	380.67	381.55	379.49	380.60	381.28	379.98
9	380.24	379.63	380.80	382.65	382.81	380.54	380.76	381.57	379.44	380.56	381.23	380.01
10	380.14	379.60	380.85	381.89	382.08	380.52	380.48	381.54	379.38	380.51	381.28	380.03
11	380.17	379.57	380.91	381.44	380.31	380.50	379.94	381.42	379.32	380.45	381.32	380.03
12	380.21	379.51	380.94	380.15	380.43	380.55	379.15	381.29	379.25	380.45	381.33	380.01
13	380.20	379.48	380.97	379.89	381.46	380.48	379.11	381.14	379.19	380.44	381.29	379.97
14	380.16	379.46	381.12	379.70	381.34	380.40	379.44	380.97	379.18	380.42	381.24	379.92
15	380.07	379.42	381.44	379.97	381.30	380.34	379.75	380.77	---	380.42	381.18	379.89
16	379.96	379.37	381.83	380.38	380.89	380.28	380.18	380.57	---	380.45	381.12	379.82
17	379.87	379.30	382.14	380.65	379.94	380.63	380.83	380.38	---	380.47	381.05	379.74
18	379.90	379.23	382.39	380.85	379.68	381.44	382.21	380.20	---	380.45	380.98	379.67
19	380.04	379.16	382.57	381.04	380.77	382.16	382.03	380.01	---	380.42	380.89	379.62
20	380.28	379.11	382.74	381.29	381.79	381.97	381.05	379.84	382.61	380.36	380.78	379.57
21	381.06	379.06	382.87	381.52	382.57	382.04	380.57	379.68	382.06	380.28	380.68	379.51
22	381.70	379.01	381.66	381.69	---	382.58	380.15	379.52	---	380.24	380.57	379.44
23	381.97	378.96	380.39	381.85	382.31	382.78	380.41	379.32	381.08	380.23	380.46	379.42
24	381.85	378.92	380.58	382.02	---	382.65	380.80	379.13	381.44	380.24	380.36	379.38
25	381.51	378.89	380.83	382.20	380.74	382.32	381.15	378.95	381.66	380.30	380.27	379.38
26	381.07	378.94	381.06	380.82	380.11	381.85	380.87	378.76	381.77	380.42	380.17	379.46
27	380.55	379.21	381.23	379.29	380.22	381.24	380.49	378.60	381.87	380.54	380.20	379.51
28	379.98	379.55	381.34	379.36	---	380.79	380.94	378.62	382.13	380.65	380.50	379.55
29	379.43	379.87	381.44	379.55	380.60	380.95	382.37	379.01	382.43	380.81	380.43	379.55
30	379.38	380.10	381.54	379.86	---	381.13	383.60	379.26	382.24	380.89	380.34	379.52
31	379.46	---	381.62	381.21	---	381.28	---	379.41	---	380.95	380.33	---
MEAN	380.62	379.43	381.21	381.17	---	381.12	380.76	380.42	---	380.62	380.90	379.86
MAX	382.53	380.10	382.87	382.65	---	382.78	383.60	383.45	---	382.28	381.33	380.86
MIN	379.38	378.89	380.25	379.29	---	380.28	379.11	378.60	---	380.23	380.17	379.38

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



02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC

LOCATION.--Lat 36°31'24", long 78°59'48", Person County, Hydrologic Unit 03010104, on left bank 200 ft downstream from Afterbay Reservoir dam of Carolina Power and Light Company, 1.2 mi upstream from Ghent Creek, and 1.8 mi east-northeast of McGehees Mill.

DRAINAGE AREA.--202 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.-- Records good except those for estimated daily discharges, and discharges above 150 ft^3/s, which are poor. Flow regulated by Roxboro Steam-Electric Generating Plant Afterbay Reservoir. Minimum discharge for current water year also occurred Aug. 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	314	16	18	14	593	71	55	587	17	239	12	17
2	309	16	18	14	574	71	56	565	17	234	46	17
3	302	16	17	17	556	71	257	435	16	227	54	17
4	296	16	17	17	547	71	284	56	17	85	30	17
5	145	16	18	18	275	64	246	57	17	17	30	16
6	69	16	17	18	70	54	53	57	17	17	27	16
7	69	16	18	17	71	54	53	57	17	17	20	17
8	69	17	18	18	72	54	64	57	17	17	20	17
9	68	17	e18	68	93	54	364	58	17	17	20	17
10	68	16	17	573	659	54	339	57	17	17	20	17
11	68	17	17	983	445	54	332	57	17	17	20	17
12	68	17	18	725	57	54	251	57	17	17	20	17
13	68	17	17	230	308	54	51	56	17	17	20	17
14	68	16	17	163	534	54	51	55	17	17	20	17
15	68	17	18	18	517	54	51	55	e17	17	20	17
16	68	e16	18	17	501	54	52	55	e17	17	19	16
17	67	17	18	17	487	54	53	55	e17	17	20	16
18	43	17	18	18	82	56	991	54	e17	17	19	16
19	16	17	18	18	57	129	1440	53	e243	17	19	17
20	16	16	18	17	59	247	773	53	1230	17	19	17
21	74	16	149	18	62	252	492	52	1160	17	20	17
22	170	16	518	18	201	249	226	52	e370	17	19	16
23	170	16	186	18	292	249	55	52	e18	17	19	16
24	169	16	18	17	e234	248	56	52	17	17	17	17
25	169	16	18	174	e235	244	122	51	17	17	17	16
26	167	16	17	546	e76	242	288	51	17	17	18	16
27	165	16	17	200	e76	241	287	35	17	17	17	16
28	164	17	17	19	e76	143	289	16	17	17	17	16
29	106	17	17	19	71	55	397	17	407	17	17	16
30	16	17	17	18	---	54	614	17	402	17	17	16
31	16	---	16	249	---	55	---	17	---	17	17	---
TOTAL	3645	492	1343	4276	7880	3460	8642	2948	4220	1244	670	497
MEAN	118	16.4	43.3	138	272	112	288	95.1	141	40.1	21.6	16.6
MAX	314	17	518	983	659	252	1440	587	1230	239	54	17
MIN	16	16	16	14	57	54	51	16	16	17	12	16

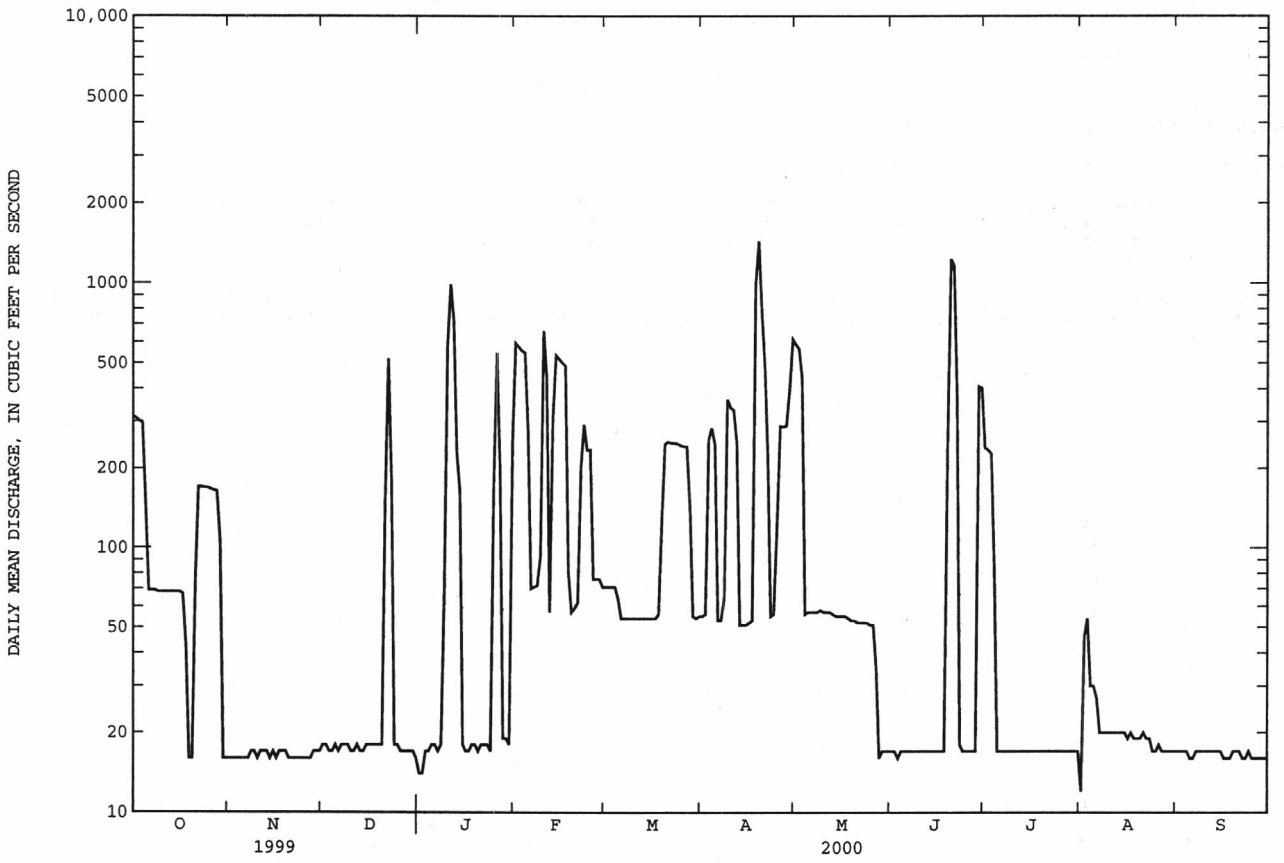
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	57.4	58.2	114	377	336	419	243	120	77.6	98.8	68.1	128
MAX	351	334	361	1201	926	1165	692	864	456	1058	294	675
(WY)	1996	1986	1983	1978	1979	1993	1983	1978	1982	1975	1982	1974
MIN	3.47	2.40	2.19	18.9	11.0	18.3	12.9	7.90	3.96	9.60	1.08	1.55
(WY)	1999	1998	1998	1981	1981	1981	1985	1981	1974	1985	1999	1977

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	41420.10		39317			
ANNUAL MEAN	113		107		174	
HIGHEST ANNUAL MEAN					392	1975
LOWEST ANNUAL MEAN					17.9	1981
HIGHEST DAILY MEAN	3930	Sep 17	1440	Apr 19	9280	Jul 14 1975
LOWEST DAILY MEAN	.28	Aug 5	12	Aug 1	.27	Nov 2 1997
ANNUAL SEVEN-DAY MINIMUM	.45	Aug 3	16	Oct 30	.45	Aug 3 1999
INSTANTANEOUS PEAK FLOW			1490	Apr 19	11300	Jul 14 1975
INSTANTANEOUS PEAK STAGE			11.30	Apr 19	24.40	Jul 14 1975
INSTANTANEOUS LOW FLOW			11*	Aug 1	.00	Jun 26 1980
10 PERCENT EXCEEDS	170		298		391	
50 PERCENT EXCEEDS	18		20		35	
90 PERCENT EXCEEDS	2.7		16		11	

e Estimated.
* See REMARKS.

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



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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1981 to September 1983.

WATER TEMPERATURE: June 1974 to current year.

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

REMARKS.--No temperature record July 23 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 197 microsiemens, Dec. 6, 1981; minimum, 89 microsiemens, May 16, 1983.

WATER TEMPERATURE: Maximum recorded, 33.5°C, July 20, 21, 22, 1977; minimum recorded, 1.1°C, Jan. 1, 2, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, not determined; minimum recorded, 1.6°C, Jan. 30.

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	23.4	22.3	22.8	19.0	14.5	16.4	11.3	7.7	8.8	8.7	6.3	7.4
2	23.9	22.4	23.0	19.7	14.4	17.0	12.0	7.6	9.0	9.3	6.9	8.3
3	23.8	22.7	23.2	16.6	12.8	14.1	12.1	7.6	9.7	9.7	8.7	9.2
4	23.8	23.2	23.4	17.0	11.4	14.0	12.4	9.6	11.1	10.9	9.2	10.0
5	23.2	20.9	22.4	18.1	11.4	15.5	12.5	8.8	11.0	10.9	6.9	8.5
6	22.7	20.4	21.2	16.4	11.1	13.8	12.6	9.9	12.1	10.2	6.4	8.1
7	22.2	19.9	21.0	16.7	12.2	14.0	12.4	8.3	9.8	11.3	7.2	8.9
8	21.6	19.6	20.6	16.0	11.3	13.6	12.0	7.8	9.4	9.5	6.5	7.9
9	21.8	19.9	21.0	16.4	11.5	14.3	---	---	---	9.2	8.0	8.6
10	25.1	21.3	22.7	16.7	14.2	15.4	12.2	10.0	11.4	10.7	8.1	9.6
11	25.1	21.4	23.1	16.4	13.6	15.1	11.9	8.0	9.6	9.5	9.2	9.3
12	23.4	20.2	21.1	15.0	11.3	13.3	11.3	7.8	9.6	10.0	9.2	9.5
13	23.2	20.1	21.2	17.5	11.3	13.9	11.5	10.5	11.0	11.7	9.6	10.7
14	22.9	19.2	20.8	16.5	12.1	14.8	12.4	9.4	11.4	13.3	6.8	10.0
15	22.5	18.4	19.9	15.9	11.2	13.4	12.0	8.4	9.8	9.5	6.5	7.5
16	22.1	18.6	19.9	---	---	---	11.6	7.6	9.4	9.9	7.9	9.1
17	21.8	20.0	20.4	14.3	9.3	11.1	11.4	7.1	9.0	9.6	6.6	7.7
18	20.9	16.3	19.3	14.1	8.8	10.7	11.2	7.4	9.0	6.8	6.4	6.6
19	19.3	15.2	17.3	14.2	8.9	11.4	10.4	8.1	9.4	8.9	6.2	7.2
20	17.9	15.5	16.7	14.5	11.7	13.1	10.5	9.2	9.9	9.3	5.9	7.1
21	19.7	15.1	17.7	14.3	11.0	12.8	---	---	---	7.1	5.6	6.1
22	19.8	18.0	18.9	14.8	12.7	13.7	---	---	---	6.6	5.6	6.2
23	20.7	17.4	18.5	14.1	12.7	13.6	10.7	7.3	9.3	6.1	5.7	5.9
24	19.0	16.7	17.6	14.3	13.2	13.9	8.0	6.9	7.3	7.1	5.6	6.0
25	18.0	16.2	16.9	14.6	13.8	14.3	8.5	6.1	6.8	5.8	4.7	5.4
26	17.9	16.0	17.0	14.9	13.3	14.2	9.0	6.2	7.2	5.5	5.2	5.4
27	18.4	16.2	17.1	14.9	10.7	12.7	8.9	6.2	7.1	5.4	4.5	5.0
28	18.1	15.9	16.8	14.5	9.6	11.8	8.5	6.2	7.0	5.0	3.9	4.4
29	17.9	14.0	16.2	14.1	9.7	11.3	8.9	6.1	7.0	5.1	3.9	4.4
30	18.5	12.9	15.4	13.1	8.3	10.1	8.9	6.1	7.4	4.6	1.6	3.8
31	17.8	14.7	16.2	---	---	---	9.1	6.3	7.4	5.8	4.2	4.6
MONTH	25.1	12.9	19.7	---	---	---	---	---	---	13.3	1.6	7.4

02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, 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	4.4	4.0	4.2	13.8	10.4	12.2	15.3	13.2	14.5	20.4	18.6	19.3
2	4.8	4.1	4.4	14.0	12.4	13.2	15.9	14.8	15.5	20.7	20.0	20.3
3	6.2	4.7	5.6	13.0	11.7	12.3	16.9	15.9	16.4	20.0	18.7	19.7
4	7.2	6.2	6.8	12.0	11.0	11.6	17.2	16.7	17.0	20.1	17.9	19.2
5	7.5	7.0	7.2	13.6	10.9	12.3	16.8	15.6	16.3	23.3	18.2	20.5
6	7.5	7.0	7.3	12.9	11.3	12.3	16.7	15.2	16.0	20.6	19.1	19.7
7	8.1	7.3	7.7	12.8	11.3	12.2	16.7	15.4	16.2	20.7	18.9	19.7
8	7.9	7.0	7.5	13.5	11.9	12.9	17.1	15.8	16.5	20.5	18.6	19.8
9	8.1	6.8	7.3	14.8	12.7	13.7	17.2	16.3	16.8	21.3	19.3	20.3
10	8.6	8.1	8.4	14.6	12.8	13.5	17.2	16.3	16.7	22.7	19.5	20.7
11	10.6	8.6	9.5	15.6	12.6	13.9	17.5	16.6	17.0	21.1	18.5	19.6
12	9.8	7.7	8.4	16.0	14.1	15.2	18.3	16.6	17.6	21.8	19.0	20.6
13	8.7	7.6	8.3	14.4	12.3	13.4	16.6	15.0	15.5	21.9	19.7	20.9
14	9.4	8.6	8.9	14.1	11.6	12.9	15.6	14.9	15.3	20.9	20.1	20.5
15	10.3	9.0	9.5	14.3	12.4	13.4	15.9	15.4	15.7	20.2	19.0	19.8
16	10.7	9.9	10.3	14.3	13.3	13.9	16.3	15.6	16.0	20.5	19.0	20.0
17	10.6	10.2	10.4	15.7	13.7	14.9	16.9	15.8	16.2	22.5	20.2	21.4
18	10.2	8.9	9.5	14.0	12.4	13.2	17.3	15.6	16.8	23.6	20.8	22.2
19	11.0	10.0	10.4	14.1	12.4	13.2	18.4	16.9	17.5	23.3	22.1	22.8
20	10.8	9.4	10.2	14.1	13.6	13.8	19.3	18.2	18.6	22.7	21.5	22.1
21	10.9	9.1	9.8	13.8	13.5	13.6	20.2	18.6	19.5	22.4	21.3	21.8
22	10.9	9.0	10.0	13.6	13.4	13.5	19.8	18.4	19.4	23.1	21.3	22.1
23	11.4	10.6	11.0	13.6	13.4	13.5	18.9	17.6	18.3	22.5	20.9	21.8
24	---	---	---	14.4	13.3	13.8	---	---	---	23.8	22.2	23.1
25	---	---	---	16.2	14.2	15.1	---	---	---	23.7	22.8	23.2
26	---	---	---	16.8	15.6	16.2	17.9	17.6	17.7	24.7	22.0	22.8
27	---	---	---	16.0	15.0	15.5	18.2	17.5	17.8	23.0	21.3	22.2
28	---	---	---	16.0	14.8	15.7	17.9	17.6	17.7	21.3	18.9	20.6
29	12.0	10.8	11.5	15.9	14.2	15.1	18.5	17.4	17.8	19.1	16.5	18.2
30	---	---	---	15.5	14.1	15.0	19.4	18.0	18.5	18.1	15.6	16.8
31	---	---	---	15.2	13.7	14.5	---	---	---	20.5	15.5	17.7
MONTH	---	---	---	16.8	10.4	13.7	---	---	---	24.7	15.5	20.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.3	17.0	18.9	28.2	27.1	27.7	---	---	---	---	---	---
2	22.2	18.3	20.2	28.3	27.3	27.9	---	---	---	---	---	---
3	21.8	19.2	20.5	29.0	27.6	28.4	---	---	---	---	---	---
4	20.4	18.8	19.5	28.7	25.6	27.2	---	---	---	---	---	---
5	19.5	18.7	19.0	25.8	24.6	25.3	---	---	---	---	---	---
6	21.3	18.5	19.7	26.1	24.3	25.2	---	---	---	---	---	---
7	21.6	17.8	19.6	25.5	23.9	24.6	---	---	---	---	---	---
8	21.6	19.1	20.4	25.6	22.9	24.4	---	---	---	---	---	---
9	22.3	20.0	21.2	26.5	23.6	25.2	---	---	---	---	---	---
10	22.7	20.4	21.6	26.7	24.8	25.7	---	---	---	---	---	---
11	22.8	20.7	21.8	26.2	24.8	25.5	---	---	---	---	---	---
12	22.8	21.1	22.0	25.3	24.3	24.9	---	---	---	---	---	---
13	22.9	21.4	22.2	25.5	23.9	24.7	---	---	---	---	---	---
14	23.8	21.5	22.3	26.0	24.3	25.0	---	---	---	---	---	---
15	---	---	---	26.6	23.7	25.1	---	---	---	---	---	---
16	---	---	---	26.5	23.2	24.9	---	---	---	---	---	---
17	---	---	---	26.5	23.1	24.9	---	---	---	---	---	---
18	---	---	---	26.7	23.4	25.2	---	---	---	---	---	---
19	---	---	---	26.4	24.8	25.7	---	---	---	---	---	---
20	---	---	---	25.8	23.7	24.9	---	---	---	---	---	---
21	---	---	---	26.1	23.4	24.8	---	---	---	---	---	---
22	---	---	---	25.5	23.6	24.7	---	---	---	---	---	---
23	25.2	22.2	23.7	25.8	23.6	24.8	---	---	---	---	---	---
24	25.2	22.4	23.7	24.5	22.7	23.8	---	---	---	---	---	---
25	25.6	23.1	24.1	24.4	23.0	23.7	---	---	---	---	---	---
26	25.6	23.4	24.4	25.0	23.1	24.1	---	---	---	---	---	---
27	25.6	23.6	24.4	26.0	23.5	24.8	---	---	---	---	---	---
28	24.2	23.3	23.8	25.9	23.2	24.8	---	---	---	---	---	---
29	28.5	23.0	26.6	25.8	23.2	24.4	---	---	---	---	---	---
30	28.2	27.3	27.9	26.1	23.7	24.9	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02077670 MAYO CREEK NEAR BETHEL HILL, NC

LOCATION.--Lat 36°32'26", long 78°52'21" Person County, Hydrologic Unit 03010104, on right bank 0.1 mi upstream from Virginia state line, 0.3 mi downstream of Mayo Steam Electric Generating Plant dam, 2.9 mi northeast of Bethel Hill, and 4.8 mi downstream of Spoonwater Creek.

DRAINAGE AREA.--53.5 mi^2.

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

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

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

REMARKS.--No estimated daily discharges. Records fair except those for Aug. and Sept., which are poor due to beaver activity. Flow regulated by Mayo Steam Electric Generating Plant. Minimum discharge for period of record, no flow, occurred periodically in 1977, 1980, 1981, and 1982 as a result of regulation. Minimum discharge for the current water year also occurred Aug. 16, 17, 18, 19.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	23	24	9.5	149	41	34	142	36	176	21	1.5
2	156	28	21	9.8	149	36	31	116	33	140	19	1.5
3	121	26	19	10	144	32	42	92	28	112	15	1.6
4	102	22	17	15	142	29	48	78	24	89	12	1.6
5	85	20	16	18	145	26	42	67	21	73	8.7	1.5
6	72	19	15	18	142	24	38	58	24	62	7.3	1.5
7	61	18	13	16	137	22	34	51	20	58	5.4	1.5
8	52	17	11	15	133	21	41	44	18	52	3.7	1.5
9	44	17	10	18	128	20	70	39	15	45	2.8	1.9
10	42	16	10	62	120	18	69	33	13	38	4.7	1.8
11	44	15	10	94	113	18	63	26	11	31	3.3	1.5
12	41	13	8.9	91	135	16	55	23	8.5	39	2.3	1.8
13	39	12	8.8	85	159	14	49	20	6.7	36	1.7	1.9
14	37	11	17	73	172	12	51	17	6.9	31	1.4	2.0
15	31	8.2	21	62	172	11	52	13	30	27	1.3	1.9
16	28	6.6	19	52	154	11	55	11	145	24	1.2	2.0
17	27	5.3	17	40	129	31	55	9.5	125	20	1.2	2.1
18	28	4.6	15	33	142	36	178	8.5	105	17	1.3	1.9
19	25	4.3	15	30	156	35	211	6.0	113	14	1.3	2.2
20	39	3.7	17	33	138	36	192	5.3	334	9.1	1.3	2.6
21	64	3.4	19	28	119	55	164	5.6	300	7.2	1.3	2.4
22	66	3.8	23	24	102	58	130	7.2	238	8.1	1.3	2.7
23	59	3.5	23	23	88	56	102	6.7	178	9.6	1.3	3.2
24	51	4.0	21	21	76	53	83	5.8	135	19	1.3	3.8
25	44	4.4	19	40	66	50	90	5.2	106	22	1.3	4.9
26	39	12	17	41	58	44	92	4.3	88	22	1.4	4.4
27	34	34	15	34	53	43	96	4.6	95	21	1.4	3.1
28	31	36	13	30	50	48	101	18	167	19	1.5	3.8
29	29	34	11	27	45	43	135	48	225	18	1.5	4.6
30	27	29	11	55	---	39	158	44	221	21	1.5	3.1
31	26	---	9.9	131	---	36	---	40	---	20	1.5	---
TOTAL	1749	453.8	486.6	1238.3	3516	1014	2561	1048.7	2870.1	1280.0	131.2	71.8
MEAN	56.4	15.1	15.7	39.9	121	32.7	85.4	33.8	95.7	41.3	4.23	2.39
MAX	205	36	24	131	172	58	211	142	334	176	21	4.9
MIN	25	3.4	8.8	9.5	45	11	31	4.3	6.7	7.2	1.2	1.5

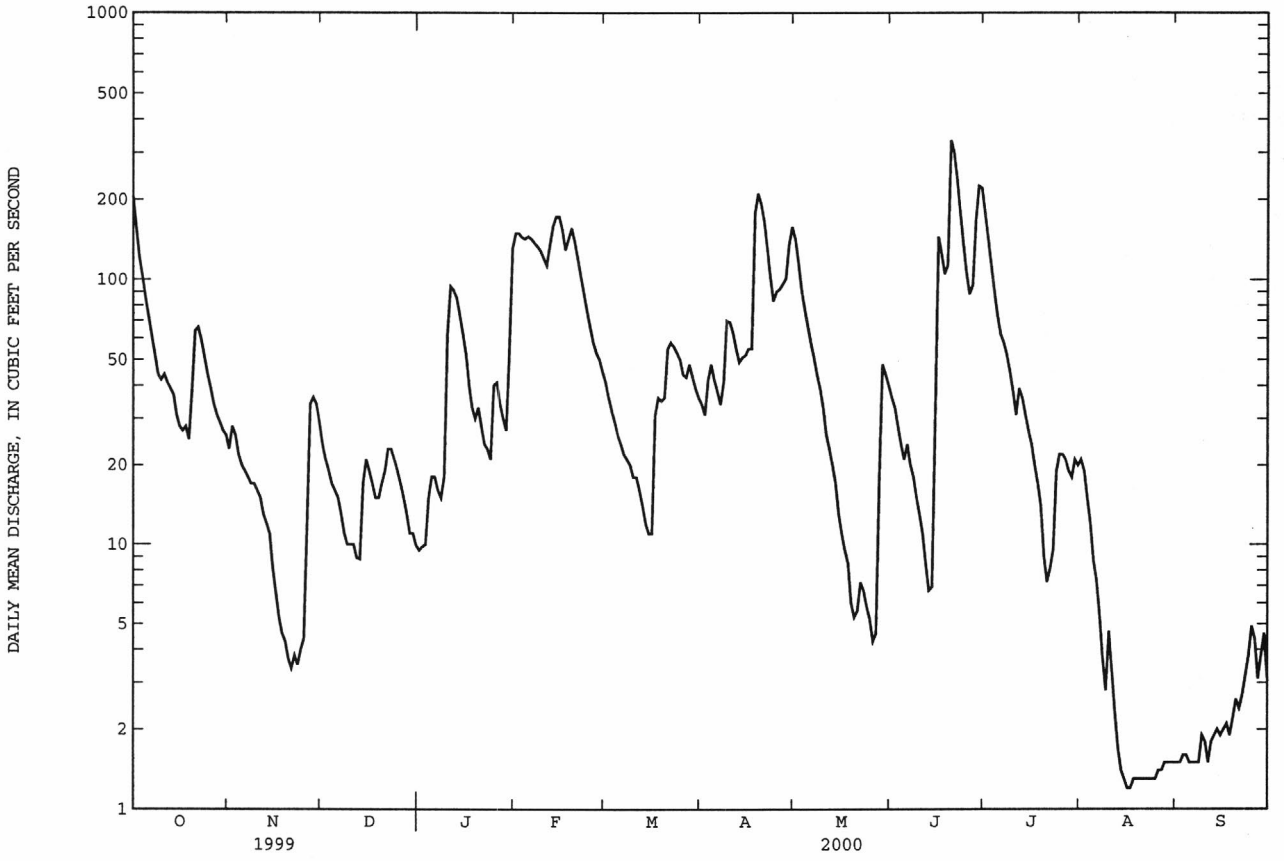
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

MEAN	12.2	15.4	21.9	67.6	75.0	100	69.9	39.3	19.8	17.9	11.6	27.4
MAX	62.2	76.0	80.5	254	301	260	214	210	95.7	118	56.1	350
(WY)	1990	1980	1997	1978	1998	1998	1993	1978	2000	1995	1984	1996
MIN	.011	.011	.016	.003	.28	.14	.20	.12	.075	.24	.038	.000
(WY)	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	9324.84		16420.5			
ANNUAL MEAN	25.5		44.9		39.7	
HIGHEST ANNUAL MEAN					87.8	1978
LOWEST ANNUAL MEAN					.11	1981
HIGHEST DAILY MEAN	435	Sep 17	334	Jun 20	2260	Sep 7 1996
LOWEST DAILY MEAN	.27	Aug 21	1.2	Aug 16	.00	Jul 31 1977
ANNUAL SEVEN-DAY MINIMUM	.98	Aug 19	1.3	Aug 15	.00	Jul 31 1977
INSTANTANEOUS PEAK FLOW			367	Jun 15	3950	Apr 26 1978
INSTANTANEOUS PEAK STAGE			4.41	Jun 15	10.83	Apr 26 1978
INSTANTANEOUS LOW FLOW			1.2*	Aug 15	.00*	Aug 1 1977
10 PERCENT EXCEEDS	50		132		101	
50 PERCENT EXCEEDS	12		24		8.6	
90 PERCENT EXCEEDS	2.9		2.1		.59	

* See REMARKS.

02077670 MAYO CREEK NEAR BETHEL HILL, NC--Continued



02080500 ROANOKE RIVER AT ROANOKE RAPIDS, NC

LOCATION.--Lat 36°27'37", long 77°38'04", Halifax County, Hydrologic Unit 03010107, on right bank 1.2 mi downstream of bridge on State Highway 48 at Roanoke Rapids, 2.5 mi upstream from Chockoyotte Creek, 2.8 mi downstream of Roanoke Rapids dam, and 133.6 mi upstream from mouth in Albemarle Sound.

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

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

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

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

REMARKS.--No estimated daily discharges. Records good. Flow regulated since August 1950 by Philpott Lake on Smith River, usable capacity, 6,325,000,000 ft^3; since September 1950 by John H. Kerr Reservoir, usable capacity, 101,247,000,000 ft^3; since June 1955 by Roanoke Rapids Lake (station 02080100); since September 1962 by Leesville Lake; since October 1962 by Lake Gaston (station 02079964); and since September 1963 by Smith Mountain Lake. Prior to regulation, maximum discharge: 261,000 ft^3/s, Aug. 18, 1940; gage height: 39.0 ft, from floodmarks; minimum discharge: about 250 ft^3/s, Dec. 16, 1955. Minimum discharge for current water year also occurred Mar. 8.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13700	6730	5030	7370	7630	8090	8180	18600	5860	5340	5160	2970
2	13600	5190	5470	7370	7580	7470	8570	18000	5870	2830	4440	2900
3	13700	8260	3900	7440	8080	6960	8430	13700	5890	2890	4660	3230
4	13600	7760	2050	7430	7750	2330	8500	12200	5940	4840	3440	10300
5	13600	2180	2230	6780	7750	2200	8450	9540	5920	2690	2990	2910
6	13500	2060	5900	8060	7540	3300	8490	9930	5900	6910	2890	3160
7	13600	2690	8600	7450	7540	2080	8480	10000	6020	2960	7400	3700
8	13600	3010	7380	7470	7600	1960	8570	10000	7490	2840	4110	4120
9	8650	3000	3750	7520	7940	3960	8560	10100	7980	3120	7610	4980
10	8460	2850	2050	7510	7700	5550	8570	9660	7970	2690	5320	9530
11	8360	3770	2030	7470	7590	2000	8580	8600	8110	4520	3160	7790
12	8430	2480	2030	7480	9850	1960	8570	7720	8080	2870	2870	12600
13	8410	2090	2930	7500	7880	5480	8590	7150	8080	4790	2880	6510
14	8310	2100	2150	9580	8230	1960	8620	7110	8070	4920	2890	7590
15	8260	2080	5960	8530	7800	2340	8560	6720	8080	2640	2890	2890
16	8270	6300	8090	7200	7590	3470	8560	6080	4520	2890	2900	2710
17	8710	6030	3860	8800	8020	9690	8560	5710	3410	2780	2900	4020
18	8610	4260	2060	7870	8460	9020	8570	4660	8050	2780	2900	11800
19	9360	6750	2060	7880	7580	2850	9490	3970	8050	4700	2870	12400
20	13700	1990	2070	7570	7550	8170	11000	3960	9430	5490	2880	12200
21	12700	2020	3180	7870	7510	5200	11100	3980	9030	4470	5060	12100
22	8350	2040	2640	8300	7240	4170	11100	3980	9140	2770	3080	10100
23	8540	5720	4360	7470	7820	4220	11200	3950	9100	3110	3950	3190
24	7740	3850	2510	7620	7470	2760	12300	3960	9010	3940	3730	3090
25	8550	2080	2690	7680	7860	2260	16500	3950	9100	8260	3770	6920
26	8440	2090	2080	7760	7540	2270	18500	3960	8980	8610	3990	2680
27	9070	2090	2070	8600	7640	2270	18500	3990	8990	5740	3170	3010
28	3920	2090	2070	8370	7510	2280	18600	4010	5470	5680	2960	3340
29	5640	2850	2050	8480	7250	5420	18600	4060	3840	2840	6950	3900
30	3710	5510	5080	7700	---	4200	18600	3970	5940	3750	2970	3680
31	4450	---	3810	8340	---	3780	---	4790	---	4380	10300	---
TOTAL	297540	111920	112140	242470	225500	129670	328900	228010	217320	129040	127090	180320
MEAN	9598	3731	3617	7822	7776	4183	10960	7355	7244	4163	4100	6011
MAX	13700	8260	8600	9580	9850	9690	18600	18600	9430	8610	10300	12600
MIN	3710	1990	2030	6780	7240	1960	8180	3950	3410	2640	2870	2680
†	-3339	+9516	-1019	+1738	-6875	+5720	-7461	+2322	+5276	-10678	+8618	+1416

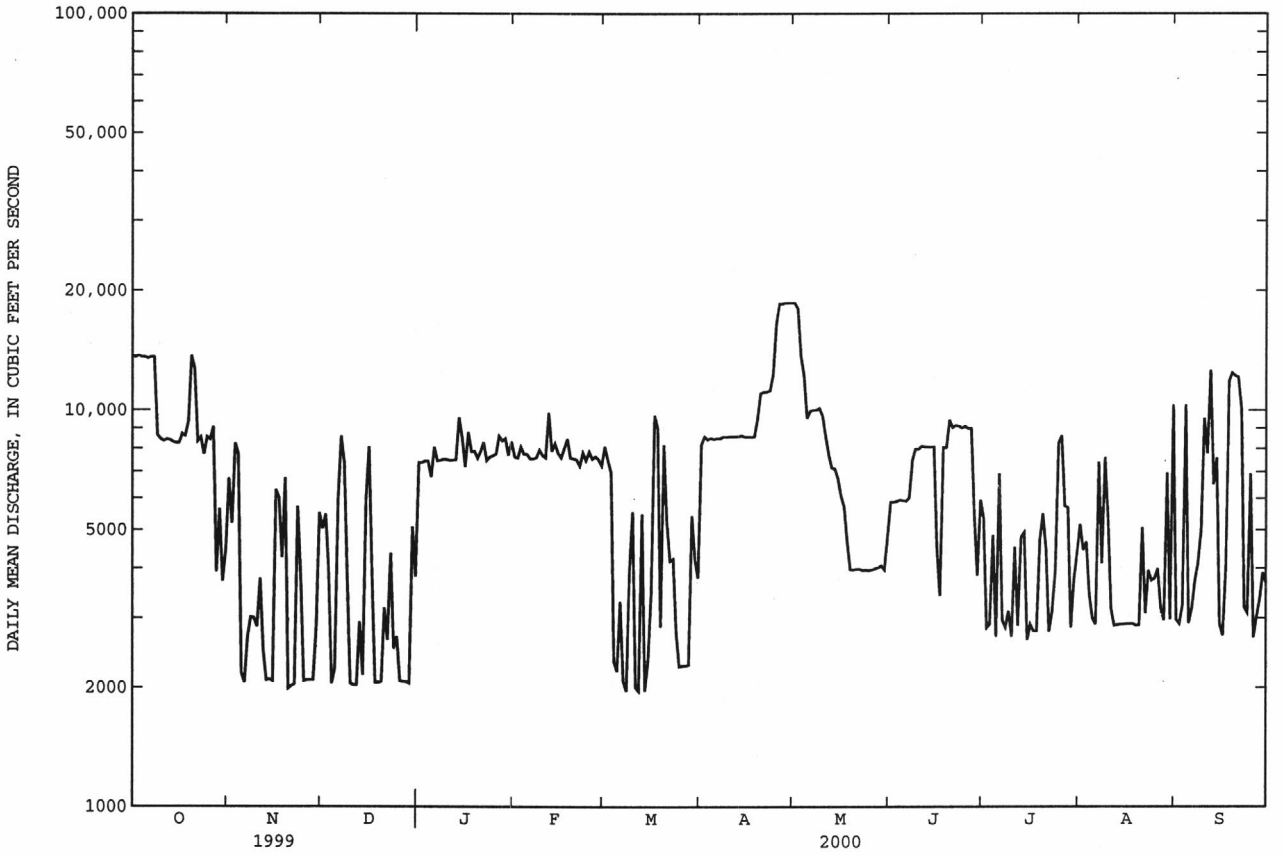
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	5774	6368	7371	9980	10820	11050	11280	10590	7506	5910	5167	5415
MAX	20360	17690	18380	17850	26800	27350	32660	31750	15260	20560	9755	25970
(WY)	1980	1986	1973	1991	1998	1998	1993	1978	1982	1972	1975	1996
MIN	2031	1987	2566	3540	2613	2259	2527	3974	2365	2581	2519	2186
(WY)	1971	1987	1999	1989	1981	1981	1985	1981	1977	1970	1993	1968

02080500 ROANOKE RIVER AT ROANOKE RAPIDS, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	1909730		2329920			
ANNUAL MEAN	5232		6366	‡11007	7955	
HIGHEST ANNUAL MEAN					12920	1973
LOWEST ANNUAL MEAN					3117	1981
HIGHEST DAILY MEAN	17900	Sep 16	18600	Apr 28	36000	Sep 11 1996
LOWEST DAILY MEAN	1520	Jan 1	1960	Mar 8	818	Nov 15 1970
ANNUAL SEVEN-DAY MINIMUM	1550	Mar 27	2550	Dec 23	989	Nov 5 1986
INSTANTANEOUS PEAK FLOW			19400	Sep 19	37700	Apr 16 1993
INSTANTANEOUS PEAK STAGE			8.67	Sep 19	11.87	Apr 16 1993
INSTANTANEOUS LOW FLOW			1920*	Mar 7	760	Nov 23 1970
10 PERCENT EXCEEDS	8700		9950		18900	
50 PERCENT EXCEEDS	4090		6190		6140	
90 PERCENT EXCEEDS	2020		2340		2020	

* Regulated period only (1964-2000). See REMARKS.
† Change in contents, equivalent in cubic feet per second, in Leeville and Smith Mountain Lake, provided by Appalachian Power Co.; Philpott and Kerr Reservoirs, provided by U.S. Army Corps of Engineers; and Lake Gaston and Roanoke Rapids Lake, provided by North Carolina Power Company.
‡ Adjusted for change in contents.



0208062765 ROANOKE RIVER AT HALIFAX, NC

LOCATION.--Lat 36°19'59", long 77°34'58", North American Datum of 1983, Halifax County, Hydrologic Unit 03010107, approximately 0.5 mi east of Halifax on private dirt road and 119 river mi from mouth.

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

GAGE-HEIGHT RECORDS

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

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

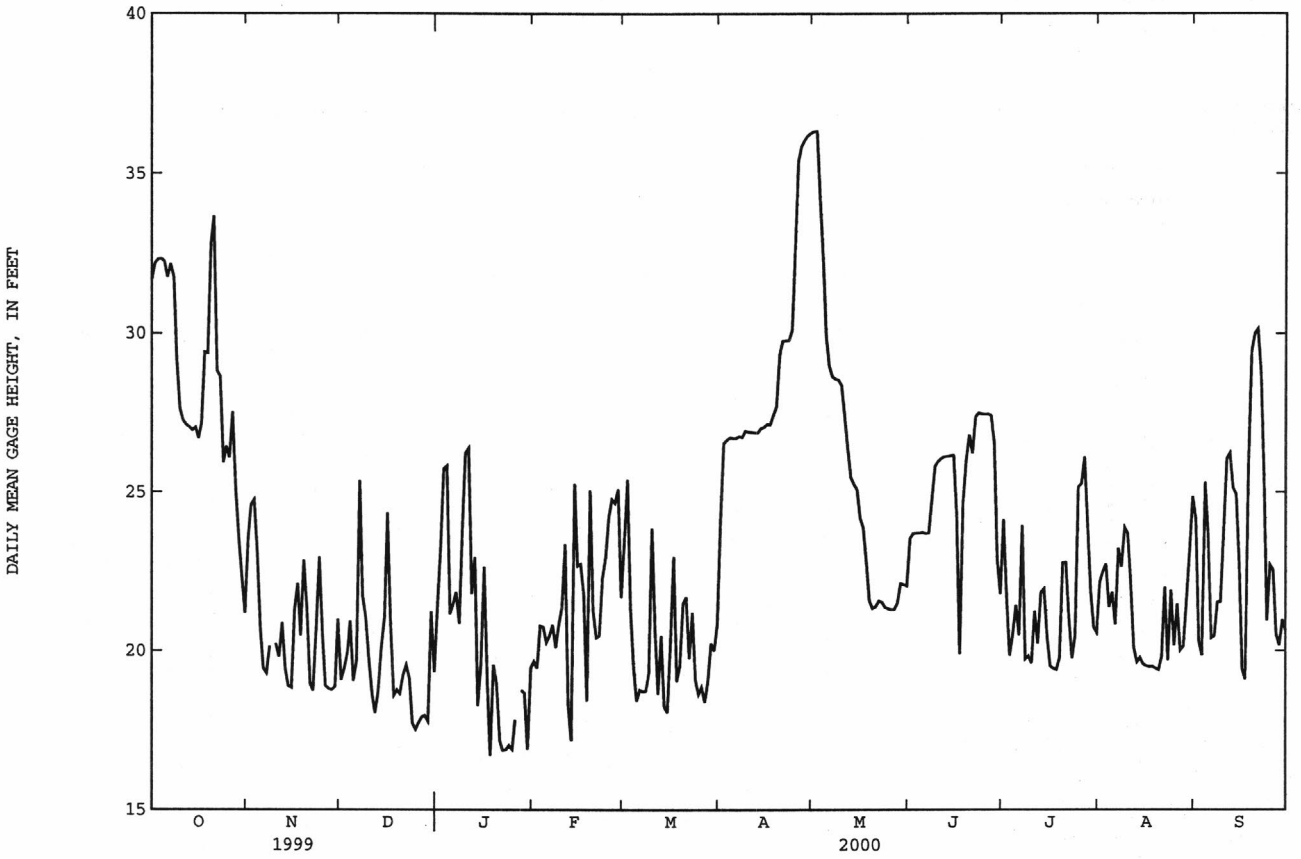
EXTREMES FOR PERIOD OF RECORD.--Maximum, 47.24 ft, Mar. 31, 1998; minimum, 16.43 ft, Dec. 8, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 36.39 ft, May 2; minimum, 16.49 ft, Jan. 28.

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	31.68	23.55	19.07	21.49	19.66	23.43	24.07	36.32	23.53	24.13	22.15	24.14
2	32.19	24.59	19.44	23.18	19.45	25.40	26.54	36.33	23.69	21.68	22.49	20.32
3	32.32	24.75	19.92	25.74	20.78	21.29	26.64	34.24	23.70	19.84	22.72	19.85
4	32.33	23.01	20.93	25.83	20.75	19.47	26.72	32.40	23.70	20.51	21.37	25.31
5	32.25	20.60	19.05	21.15	20.26	18.42	26.70	29.94	23.72	21.43	21.84	23.61
6	31.76	19.44	19.66	21.45	20.48	18.77	26.70	28.99	23.69	20.48	20.82	20.40
7	32.18	19.29	25.36	21.84	20.81	18.72	26.76	28.65	23.70	23.94	23.23	20.46
8	31.76	20.14	21.73	20.86	20.10	18.74	26.73	28.57	24.77	19.73	22.64	21.53
9	29.20	---	21.03	23.99	20.83	19.30	26.93	28.54	25.81	19.83	23.88	21.54
10	27.63	20.22	19.72	26.23	21.37	23.86	26.90	28.37	25.96	19.60	23.69	23.81
11	27.25	19.81	18.63	26.38	23.35	20.66	26.89	27.40	26.06	21.24	22.12	26.05
12	27.12	20.88	18.04	21.79	18.30	18.64	26.88	26.38	26.11	20.22	20.08	26.23
13	27.05	19.41	18.73	22.94	17.17	20.48	26.87	25.46	26.12	21.83	19.64	25.13
14	26.95	18.89	20.12	18.28	25.26	18.25	27.01	25.25	26.14	21.94	19.78	24.93
15	27.03	18.83	21.06	19.58	22.67	18.06	27.05	25.07	26.15	20.43	19.57	22.76
16	26.69	21.28	24.34	22.64	22.73	20.29	27.14	24.18	24.29	19.51	19.52	19.42
17	27.14	22.10	20.83	19.02	21.73	22.97	27.13	23.88	19.89	19.44	19.49	19.10
18	29.41	20.47	18.59	16.71	18.42	19.03	27.43	22.82	24.68	19.40	19.50	25.79
19	29.38	22.84	18.76	19.55	25.05	19.53	27.70	21.58	26.01	19.77	19.44	29.46
20	32.83	21.32	18.64	18.98	21.24	21.48	29.34	21.33	26.80	22.76	19.39	30.00
21	33.67	18.96	19.22	17.20	20.41	21.69	29.77	21.38	26.22	22.78	19.82	30.14
22	28.82	18.74	19.54	16.87	20.47	19.75	29.78	21.56	27.37	21.02	22.00	28.77
23	28.64	20.70	19.12	16.88	22.28	21.21	29.79	21.53	27.49	19.76	19.69	25.56
24	25.93	22.94	17.73	17.02	22.93	19.09	30.11	21.37	27.46	20.46	21.90	20.95
25	26.44	20.46	17.53	16.90	24.20	18.63	32.73	21.32	27.45	25.15	20.17	22.70
26	26.08	18.90	17.74	17.83	24.77	18.86	35.40	21.29	27.46	25.26	21.47	22.54
27	27.53	18.80	17.92	---	24.65	18.38	35.86	21.30	27.41	26.10	20.01	20.52
28	25.07	18.76	17.96	18.76	25.09	19.03	36.05	21.49	26.53	23.96	20.14	20.17
29	23.63	18.87	17.78	18.67	21.68	20.24	36.19	22.11	22.86	21.86	21.59	20.97
30	22.37	20.99	21.22	16.90	---	20.00	36.27	22.08	21.78	20.73	23.11	20.64
31	21.18	---	19.33	19.46	---	20.84	---	22.04	---	20.56	24.86	---
MEAN	28.50	---	19.64	---	21.62	20.15	29.00	25.59	25.22	21.46	21.23	23.43
MAX	33.67	---	25.36	---	25.26	25.40	36.27	36.33	27.49	26.10	24.86	30.14
MIN	21.18	---	17.53	---	17.17	18.06	24.07	21.29	19.89	19.40	19.39	19.10

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued



0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1998 to current year.

pH: March 1998 to current year.

WATER TEMPERATURE: March 1998 to current year.

DISSOLVED OXYGEN: March 1998 to current year.

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

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

REMARKS.--Station operated in cooperation with U.S. Fish and Wildlife Service to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	168, April 4, 1999	63, March 27, 1998
pH, standard units	8.1, March 29, 30, 2000	6.1, September 16, 1999
WATER TEMPERATURE, °C	30.9, July 22, 1998	3.0, January 28, 29, 2000
DISSOLVED OXYGEN, mg/L	16.1, January 13, 1999	4.8, August 29, 30, 2000
DISSOLVED OXYGEN, PERCENT SATURATION, %	132, January 13, 14, 1999	59, August 29, 30, 2000

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	151, March 9	89, July 25
pH, standard units	8.1, March 29, 30	6.2, October 9-12, 18
WATER TEMPERATURE, °C	29.7, August 8, 9	3.0, January 28, 29
DISSOLVED OXYGEN, mg/	13.8, December 25, 26	4.8, August 29, 30
DISSOLVED OXYGEN, PERCENT SATURATION,%	118, December 25	59, August 29, 30

0208062765 ROANOKE RIVER AT HALIFAX, 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	113	109	111	118	104	109	130	112	118	133	114	119
2	110	107	108	117	102	106	129	112	119	127	114	117
3	108	106	107	114	101	105	142	108	117	128	115	118
4	106	104	105	105	100	102	140	115	121	131	117	121
5	104	102	103	109	100	103	139	134	137	146	118	124
6	103	101	102	121	109	119	137	121	132	133	119	122
7	102	100	101	125	120	122	124	112	115	135	120	124
8	102	100	101	123	117	119	129	113	117	134	119	123
9	119	101	104	---	---	---	130	114	120	132	119	122
10	121	102	105	119	117	118	140	115	130	131	117	122
11	120	102	105	128	119	122	142	139	141	130	116	120
12	123	103	106	127	109	115	143	136	140	129	116	119
13	125	105	108	129	119	123	137	130	133	130	115	119
14	127	104	108	128	123	126	131	115	122	128	115	118
15	126	106	109	124	122	123	129	115	124	125	114	117
16	128	107	110	123	110	116	122	112	115	128	115	119
17	126	102	108	116	109	111	126	111	115	126	114	117
18	105	92	98	118	110	113	135	112	127	126	115	117
19	118	102	105	119	108	113	136	131	134	126	115	117
20	107	103	105	128	110	116	132	130	131	127	114	117
21	105	103	104	131	125	128	135	131	133	126	114	117
22	120	104	107	126	123	125	132	116	122	123	114	116
23	126	106	109	130	115	124	133	114	124	128	114	118
24	121	105	108	129	111	116	130	115	120	123	113	116
25	117	105	107	127	113	118	132	116	123	121	113	115
26	121	105	107	129	126	127	132	123	131	121	112	115
27	121	105	107	127	125	126	133	132	132	---	---	---
28	118	105	108	127	125	126	133	131	132	120	112	114
29	129	105	111	127	125	126	135	133	134	123	113	116
30	128	105	112	127	115	121	135	115	126	127	111	115
31	129	106	115	---	---	---	135	115	125	118	109	112
MONTH	129	92	107	---	---	---	143	108	126	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	121	110	113	134	116	121	140	117	123	101	100	100
2	124	111	115	134	116	121	118	114	116	114	99	104
3	123	110	113	138	116	121	116	113	114	116	109	113
4	124	110	113	136	116	121	113	111	112	117	113	115
5	124	110	114	146	136	142	111	109	110	120	115	118
6	121	109	112	140	137	139	111	109	110	119	116	118
7	119	109	112	143	121	129	111	109	110	118	115	116
8	130	110	116	150	142	147	110	108	109	115	112	114
9	130	114	118	151	134	148	109	107	108	115	113	114
10	130	115	119	136	115	122	107	104	106	115	114	114
11	129	115	119	137	117	126	107	102	105	117	115	116
12	128	114	117	144	137	143	106	102	105	119	116	118
13	125	113	116	143	113	129	106	103	105	120	118	119
14	126	113	117	144	113	128	108	104	106	120	117	118
15	130	114	118	147	144	146	109	107	108	118	116	117
16	129	115	118	149	120	137	109	108	108	120	116	118
17	130	115	119	149	114	122	111	109	110	121	119	121
18	128	115	117	121	112	115	112	109	111	124	121	123
19	131	115	119	136	114	119	114	111	113	126	122	124
20	129	115	119	138	110	124	114	112	113	125	122	124
21	130	115	119	143	110	115	114	112	113	124	121	122
22	133	116	120	130	112	116	115	113	114	122	118	120
23	135	116	121	143	113	122	116	113	115	128	121	125
24	135	117	121	146	115	132	116	114	115	128	126	127
25	133	116	121	146	131	143	114	90	106	127	125	126
26	133	116	120	143	138	141	111	93	100	127	122	124
27	131	116	120	138	137	137	111	102	107	125	122	124
28	130	115	119	138	132	135	113	106	109	123	120	122
29	134	115	120	145	120	133	114	105	111	120	109	114
30	---	---	---	147	121	129	105	99	101	114	110	112
31	---	---	---	145	118	125	---	---	---	120	114	118
MONTH	135	109	117	151	110	130	140	90	110	128	99	118

0208062765 ROANOKE RIVER AT HALIFAX, 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	119	115	116	113	103	106	117	106	110	124	106	110
2	117	115	116	114	101	105	116	104	108	126	124	125
3	117	114	116	114	111	113	116	107	111	126	124	126
4	115	114	114	115	111	113	115	106	110	124	106	115
5	116	113	114	111	103	106	110	101	104	120	106	109
6	118	112	116	120	109	117	112	103	107	130	120	125
7	120	113	117	111	103	105	112	102	109	130	124	128
8	119	115	116	125	111	121	117	102	106	127	109	118
9	115	112	113	120	115	118	122	103	109	125	109	118
10	112	109	111	117	114	115	119	102	107	123	104	109
11	109	108	109	120	108	115	117	106	108	119	104	108
12	109	108	108	124	108	117	118	113	115	123	105	109
13	111	108	110	127	111	121	114	111	113	137	105	111
14	111	111	111	127	112	119	111	103	108	134	109	113
15	113	111	112	125	110	117	114	108	111	131	110	115
16	114	112	112	126	120	124	121	114	119	135	131	134
17	135	114	127	120	119	119	122	121	121	134	130	132
18	134	107	114	122	118	121	124	118	121	131	107	115
19	109	107	108	124	121	122	123	119	121	127	108	110
20	118	105	109	125	104	113	119	118	118	130	108	110
21	123	104	108	132	108	115	121	117	119	131	108	111
22	118	103	106	132	112	120	117	101	106	136	110	113
23	117	103	105	133	124	129	126	117	123	128	108	113
24	113	102	104	124	95	118	126	106	114	130	121	124
25	112	102	103	111	89	102	131	126	129	129	112	122
26	111	101	103	118	100	106	129	110	119	118	105	111
27	115	102	104	118	100	105	126	110	121	132	116	124
28	118	102	105	118	102	106	123	113	117	134	123	130
29	117	103	110	124	102	110	124	107	119	135	118	127
30	120	106	112	122	106	115	125	106	110	135	117	128
31	---	---	---	113	104	109	127	106	119	---	---	---
MONTH	135	101	111	133	89	114	131	101	114	137	104	118

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

0208062765 ROANOKE RIVER AT HALIFAX, 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	7.6	7.4	7.4	7.6	7.2	7.3	7.9	7.4	7.7	7.5	7.4	7.4
2	7.6	7.4	7.5	7.7	7.2	7.3	7.8	7.5	7.6	7.5	7.4	7.4
3	7.6	7.4	7.5	7.6	7.3	7.4	7.8	7.5	7.6	7.6	7.4	7.4
4	7.6	7.4	7.5	7.7	7.3	7.4	7.8	7.5	7.6	7.6	7.3	7.4
5	7.6	7.4	7.5	7.6	7.2	7.4	7.9	7.5	7.6	7.6	7.3	7.4
6	7.6	7.4	7.5	7.8	7.2	7.4	7.9	7.5	7.7	7.7	7.3	7.4
7	7.7	7.4	7.5	7.8	7.2	7.4	8.0	7.5	7.7	7.7	7.3	7.4
8	7.8	7.3	7.6	7.6	7.2	7.4	7.9	7.5	7.6	7.7	7.3	7.5
9	7.8	7.6	7.6	7.7	7.2	7.4	7.8	7.4	7.6	7.7	7.2	7.5
10	7.8	7.6	7.6	7.7	7.2	7.4	7.8	7.4	7.6	7.7	7.3	7.4
11	7.8	7.5	7.6	7.8	7.2	7.4	7.9	7.5	7.6	7.7	7.3	7.4
12	7.7	7.5	7.6	7.6	7.2	7.4	7.8	7.5	7.6	7.7	7.1	7.3
13	7.6	7.5	7.5	7.6	7.1	7.4	7.7	7.5	7.5	7.6	7.1	7.3
14	7.7	7.5	7.5	7.6	7.1	7.4	7.6	7.4	7.5	7.7	7.1	7.3
15	7.7	7.4	7.5	7.6	7.1	7.3	7.6	7.4	7.4	7.7	7.2	7.3
16	7.7	7.4	7.5	7.6	7.1	7.3	7.7	7.4	7.5	7.7	7.1	7.3
17	7.7	7.4	7.4	7.5	7.1	7.4	7.7	7.4	7.5	7.6	7.1	7.3
18	7.6	7.4	7.4	7.5	7.3	7.4	7.6	7.3	7.4	7.5	7.1	7.2
19	7.5	7.3	7.4	7.5	7.1	7.3	7.6	7.3	7.4	7.5	7.0	7.2
20	7.7	7.3	7.4	7.5	7.2	7.3	7.6	7.4	7.5	7.7	7.0	7.2
21	7.6	7.3	7.4	7.6	7.3	7.4	7.6	7.4	7.5	7.5	6.9	7.1
22	7.6	7.3	7.4	7.6	7.4	7.5	7.6	7.4	7.5	7.1	6.9	7.0
23	7.6	7.3	7.4	7.7	7.4	7.6	7.6	7.4	7.5	7.2	6.8	7.0
24	7.7	7.3	7.4	7.8	7.4	7.6	7.6	7.4	7.5	7.3	6.8	7.0
25	7.7	7.3	7.4	7.8	7.4	7.6	7.5	7.4	7.4	7.4	6.9	7.0
26	7.7	7.3	7.4	7.8	7.4	7.5	7.5	7.4	7.4	7.5	6.9	7.0
27	7.6	7.3	7.4	7.9	7.4	7.6	7.5	7.4	7.4	7.6	6.8	7.1
28	7.6	7.3	7.4	7.6	7.3	7.4	7.4	7.4	7.4	7.2	6.8	6.9
29	7.6	7.2	7.3	8.1	7.4	7.6	7.4	7.4	7.4	6.9	6.6	6.7
30	---	---	---	8.1	7.4	7.5	7.5	7.4	7.4	6.9	6.7	6.7
31	---	---	---	7.7	7.4	7.6	---	---	---	7.0	6.7	6.8
MONTH	7.8	7.2	7.5	8.1	7.1	7.4	8.0	7.3	7.5	7.7	6.6	7.2

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

0208062765 ROANOKE RIVER AT HALIFAX, 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	22.0	21.3	21.6	18.3	17.0	17.5	13.3	11.7	12.6	8.5	7.2	7.8
2	21.9	21.0	21.4	17.8	17.3	17.5	12.5	11.6	12.1	9.2	7.7	8.2
3	22.1	21.2	21.6	17.6	16.1	16.9	12.1	11.1	11.6	10.0	8.7	9.2
4	22.2	21.7	21.9	16.4	15.7	16.2	12.1	11.5	11.7	11.2	9.6	10.1
5	22.0	21.7	21.9	16.2	14.8	15.5	12.4	11.5	12.0	10.9	9.8	10.2
6	21.9	21.2	21.5	15.6	14.8	15.4	12.8	12.1	12.7	10.4	9.6	10.0
7	21.6	21.1	21.3	16.0	15.4	15.8	12.1	11.4	11.8	10.3	9.8	10.0
8	21.3	20.5	20.9	15.7	14.5	15.0	11.9	11.0	11.6	9.9	9.0	9.5
9	21.2	20.2	20.6	---	---	---	11.9	11.1	11.5	9.6	9.2	9.3
10	21.3	20.7	20.9	16.3	15.4	15.8	11.9	11.7	11.8	10.1	9.3	9.6
11	21.2	20.9	21.0	16.4	15.6	15.9	12.2	11.0	11.7	10.0	9.3	9.5
12	21.3	20.7	20.9	15.8	15.1	15.3	11.1	10.7	10.9	9.9	8.9	9.4
13	20.9	20.1	20.6	15.5	14.9	15.1	12.8	11.1	11.9	10.0	9.0	9.4
14	20.9	20.4	20.6	15.7	15.1	15.5	13.0	12.3	12.7	9.7	8.2	8.9
15	20.7	19.4	20.1	15.9	14.3	15.2	13.0	11.9	12.3	8.4	7.6	8.2
16	20.4	19.6	20.0	14.8	13.8	14.4	12.2	11.6	11.8	8.4	7.8	8.0
17	20.1	19.9	20.0	14.4	13.5	14.0	11.7	10.9	11.4	8.3	7.1	7.7
18	20.2	19.6	19.9	14.0	13.0	13.4	11.6	10.5	11.0	7.3	6.6	7.1
19	20.2	19.0	19.7	14.2	12.9	13.6	11.1	10.6	11.0	7.4	6.8	7.1
20	19.9	19.0	19.4	13.9	13.4	13.7	11.5	11.1	11.4	7.2	6.5	6.9
21	19.1	18.8	18.9	14.5	13.7	14.3	11.6	11.4	11.4	6.7	5.5	6.4
22	19.1	17.9	18.6	15.1	14.4	14.8	11.5	10.2	10.8	6.1	5.3	5.9
23	18.9	18.0	18.5	15.2	14.3	14.7	10.6	9.9	10.2	5.8	5.2	5.6
24	18.4	16.9	17.7	15.7	14.2	14.7	10.5	8.8	9.6	5.6	5.3	5.5
25	17.6	16.6	17.1	15.9	14.6	15.1	9.1	7.8	8.7	5.4	3.2	4.6
26	17.4	16.1	16.8	16.1	15.7	15.9	7.9	7.7	7.8	4.6	4.0	4.4
27	17.3	16.3	16.9	16.2	14.9	15.6	8.4	7.8	8.2	---	---	---
28	17.0	16.3	16.7	15.0	14.6	14.8	8.6	8.1	8.4	4.2	3.0	3.8
29	17.4	16.1	16.9	14.9	14.0	14.4	8.2	7.5	7.9	4.4	3.0	3.7
30	17.4	16.4	16.9	14.5	13.1	13.8	7.9	7.2	7.7	4.1	3.6	3.7
31	17.8	17.2	17.5	---	---	---	8.6	7.8	8.0	4.3	3.5	3.9
MONTH	22.2	16.1	19.6	---	---	---	13.3	7.2	10.8	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	3.4	3.9	10.3	8.9	9.5	14.4	12.7	13.8	16.6	15.6	16.0
2	4.5	3.5	3.9	10.5	9.2	9.7	14.2	13.1	13.6	16.7	16.0	16.3
3	4.5	3.4	3.8	10.5	9.3	9.8	15.2	13.9	14.4	17.2	16.2	16.6
4	4.5	3.8	4.1	10.5	9.5	9.8	15.1	14.4	14.7	17.6	16.1	16.8
5	4.8	3.9	4.2	10.5	9.6	10.2	14.6	13.8	14.1	18.5	16.6	17.3
6	4.9	3.9	4.3	12.0	10.5	11.1	14.9	13.2	13.9	19.2	17.9	18.4
7	5.3	4.1	4.5	11.9	9.9	10.7	15.5	13.8	14.5	20.1	17.6	18.8
8	5.2	3.8	4.5	12.4	11.4	12.0	16.1	14.2	15.0	20.9	19.5	20.0
9	5.1	4.2	4.6	14.1	11.9	13.4	15.7	14.4	14.8	21.0	20.0	20.5
10	5.6	4.3	4.7	14.1	12.1	12.8	15.1	13.6	14.3	21.9	20.5	21.1
11	5.6	4.5	4.9	14.1	12.8	13.6	15.5	14.1	14.7	22.1	21.0	21.5
12	5.4	4.6	4.8	15.5	13.7	14.9	15.6	14.6	15.1	22.8	21.2	21.7
13	4.9	4.5	4.7	13.7	12.0	13.1	15.4	14.3	14.7	23.4	22.3	22.7
14	5.7	4.7	5.1	13.2	12.4	12.8	14.9	14.2	14.5	23.3	22.2	22.8
15	5.9	4.8	5.1	13.6	12.5	13.2	14.7	14.0	14.3	23.0	22.1	22.5
16	6.9	5.0	5.6	13.9	12.4	13.1	15.5	13.9	14.5	22.9	21.2	22.0
17	6.6	5.6	5.9	13.9	13.3	13.5	16.2	14.8	15.5	23.0	21.2	22.0
18	6.3	5.6	5.9	13.4	12.4	12.8	15.9	14.7	15.0	23.7	22.4	22.9
19	7.0	6.3	6.5	12.9	12.0	12.4	15.9	15.2	15.4	24.3	22.9	23.5
20	7.2	6.1	6.4	13.2	12.1	12.4	15.9	14.6	15.3	24.4	23.3	24.0
21	7.3	6.0	6.4	12.2	11.8	12.0	16.2	14.6	15.3	24.5	22.1	22.8
22	7.2	6.0	6.5	11.8	11.1	11.4	16.3	15.8	16.1	22.8	22.0	22.3
23	7.9	6.2	6.8	11.9	11.1	11.5	16.4	15.5	15.9	23.9	22.6	23.2
24	8.6	6.8	7.4	12.4	11.6	12.0	16.4	15.6	16.0	24.5	22.2	23.2
25	9.2	7.4	8.0	13.4	12.4	13.1	16.1	15.5	15.7	24.9	24.3	24.6
26	9.6	7.6	8.2	14.5	13.4	14.1	15.8	14.9	15.4	25.3	24.0	24.5
27	9.6	7.9	8.5	14.6	13.7	14.1	15.4	14.7	15.0	25.3	22.8	23.8
28	10.5	8.7	9.4	14.8	14.1	14.5	15.3	15.0	15.1	24.3	22.9	23.6
29	10.4	9.1	9.6	14.6	13.2	14.0	15.4	14.9	15.1	23.4	21.3	22.1
30	---	---	---	14.6	12.9	13.2	16.0	15.0	15.4	21.3	20.6	20.9
31	---	---	---	13.9	12.7	13.3	---	---	---	22.3	20.9	21.5
MONTH	10.5	3.4	5.8	15.5	8.9	12.4	16.4	12.7	14.9	25.3	15.6	21.3

0208062765 ROANOKE RIVER AT HALIFAX, 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	22.5	20.8	21.6	26.8	24.9	25.5	27.0	25.0	25.8	26.1	25.1	25.5
2	23.9	20.9	21.9	26.5	25.0	25.5	28.1	26.4	26.9	26.5	25.6	26.0
3	24.0	21.5	22.5	26.9	25.9	26.2	27.8	26.0	26.6	26.0	25.5	25.7
4	22.9	21.1	21.5	27.6	25.9	26.5	27.3	26.4	26.7	26.0	24.8	25.6
5	22.5	22.0	22.2	27.8	26.1	27.0	26.6	25.4	26.0	25.7	24.2	25.1
6	22.5	21.9	22.2	28.3	26.0	27.8	27.2	26.2	26.7	24.2	23.3	23.6
7	23.4	22.1	22.7	26.3	25.5	25.9	28.6	26.4	27.4	24.8	23.4	23.9
8	23.4	21.2	22.1	26.9	26.1	26.6	29.7	27.2	28.0	24.8	23.4	24.0
9	23.6	22.1	22.7	27.0	25.6	26.2	29.7	28.0	28.6	24.9	23.7	24.2
10	24.2	22.7	23.3	27.7	26.1	26.8	29.5	27.9	28.4	24.6	23.3	23.9
11	24.7	23.0	23.8	28.4	27.3	27.9	28.8	27.5	28.0	25.2	23.9	24.3
12	24.9	23.7	24.2	27.3	26.5	27.0	28.6	27.3	27.8	25.0	24.0	24.5
13	25.3	23.5	24.3	26.9	25.8	26.6	28.0	26.9	27.4	26.4	24.6	25.1
14	25.2	23.3	24.1	27.2	26.3	26.7	27.5	25.9	26.8	25.8	24.6	24.9
15	26.1	23.9	25.1	27.2	26.2	26.6	27.9	26.8	27.4	25.4	24.5	24.9
16	26.5	25.1	25.8	27.5	26.5	26.9	28.2	27.3	27.7	25.0	24.1	24.6
17	26.6	26.2	26.3	27.9	26.9	27.4	28.3	27.7	28.1	24.3	23.4	23.7
18	27.2	25.3	26.6	28.0	27.1	27.5	28.5	26.8	27.5	24.0	22.9	23.5
19	27.2	26.5	26.8	28.4	27.4	28.0	27.3	26.5	27.0	23.5	23.0	23.2
20	26.5	24.8	25.6	28.8	26.8	27.6	27.5	26.3	26.7	23.7	22.8	23.2
21	26.8	25.1	25.5	27.8	26.8	27.0	27.3	25.9	26.4	24.1	23.6	23.8
22	26.5	25.1	25.6	27.1	26.5	26.6	27.3	25.4	25.9	24.1	23.6	23.8
23	26.6	24.8	25.3	26.8	26.1	26.5	26.8	26.0	26.4	23.6	23.1	23.4
24	25.9	25.1	25.4	26.9	24.2	25.9	27.2	25.8	26.2	24.3	23.0	23.5
25	26.7	24.9	25.4	25.2	23.6	24.6	26.8	26.3	26.6	24.5	22.9	23.7
26	26.7	25.1	25.7	25.1	24.5	24.9	26.7	25.4	26.0	22.9	20.5	21.6
27	27.3	25.7	26.1	26.6	24.4	24.9	26.5	25.6	26.0	22.0	20.5	21.1
28	26.5	25.6	26.0	26.3	24.4	25.0	26.2	25.1	25.5	22.3	21.5	21.9
29	25.8	25.1	25.5	25.9	24.5	25.0	26.5	25.2	25.6	22.4	21.0	21.6
30	27.4	25.2	25.8	26.1	25.3	25.6	25.5	24.9	25.1	21.8	21.0	21.4
31	---	---	---	25.7	24.9	25.4	25.8	25.0	25.3	---	---	---
MONTH	27.4	20.8	24.4	28.8	23.6	26.4	29.7	24.9	26.8	26.5	20.5	23.8

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	7.0	6.7	6.8	8.4	7.7	7.9	9.4	8.1	8.4	12.3	10.9	11.4
2	7.1	6.6	6.8	8.0	7.5	7.7	9.4	8.6	8.7	12.1	11.0	11.4
3	7.1	6.7	6.9	8.2	7.4	7.7	9.4	8.7	8.8	11.9	10.7	11.1
4	7.0	6.8	6.9	9.0	8.1	8.3	9.3	8.8	8.9	11.5	10.3	10.7
5	7.1	6.8	6.9	8.9	8.4	8.5	9.3	8.8	9.0	11.8	10.1	10.6
6	7.2	6.7	6.9	9.1	8.4	8.6	9.1	8.5	8.8	---	---	---
7	7.1	6.9	7.0	9.0	8.3	8.6	9.4	8.8	9.1	---	---	---
8	7.2	6.6	6.9	9.2	8.7	8.8	9.4	9.1	9.1	---	---	---
9	7.0	6.6	6.8	---	---	---	9.4	8.7	8.9	---	---	---
10	7.0	6.6	6.8	8.9	8.2	8.4	9.3	8.8	9.0	---	---	---
11	6.9	6.6	6.7	8.7	8.0	8.4	9.2	8.7	8.9	---	---	---
12	7.0	6.7	6.8	8.5	8.0	8.2	9.4	8.9	9.2	11.1	10.4	10.8
13	7.0	6.6	6.7	8.8	8.0	8.3	9.4	8.9	9.1	10.8	10.3	10.5
14	7.4	6.7	6.9	8.9	7.9	8.3	9.3	8.8	8.9	11.3	10.5	10.8
15	7.5	7.0	7.1	8.7	7.8	8.1	9.5	8.8	9.0	11.5	10.9	11.1
16	7.4	6.9	7.1	9.2	8.4	8.7	9.7	9.0	9.2	11.5	11.0	11.2
17	7.2	6.9	7.1	9.3	8.7	8.9	9.6	9.1	9.3	11.8	11.1	11.4
18	7.6	6.7	7.1	9.3	8.9	9.0	10.5	9.5	10.0	11.9	11.4	11.6
19	7.6	7.1	7.3	9.3	8.5	8.9	11.6	10.5	11.2	11.8	9.8	11.0
20	7.4	7.2	7.3	8.7	8.3	8.5	11.7	11.4	11.5	11.1	9.4	10.2
21	7.5	7.2	7.3	8.8	8.3	8.5	11.9	11.5	11.7	11.4	9.5	10.2
22	7.5	7.0	7.2	8.6	8.2	8.4	12.5	11.7	11.9	11.7	10.3	10.9
23	7.7	7.1	7.3	8.6	8.0	8.3	12.7	12.1	12.3	11.6	10.2	10.8
24	8.1	7.4	7.7	8.6	7.8	8.0	13.5	12.4	12.7	11.4	9.9	10.4
25	8.4	7.8	8.1	8.3	7.8	7.9	13.8	12.8	13.1	10.9	9.6	10.2
26	8.4	8.1	8.2	8.2	7.6	7.9	13.8	12.7	13.2	11.0	9.7	10.1
27	8.3	7.9	8.1	8.1	7.6	7.7	13.3	12.7	13.0	---	---	---
28	8.2	7.9	8.0	8.4	8.0	8.2	13.3	10.9	11.6	10.7	9.5	9.9
29	8.6	7.8	8.2	8.7	8.1	8.4	11.5	10.8	11.1	10.9	9.6	10.0
30	8.2	7.8	8.0	8.8	8.1	8.3	12.0	11.0	11.4	10.4	9.4	9.8
31	8.3	7.7	8.1	---	---	---	12.2	10.9	11.3	10.5	9.4	9.8
MONTH	8.6	6.6	7.3	---	---	---	13.8	8.1	10.3	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, 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	10.5	9.4	9.8	10.9	10.3	10.7	10.5	9.4	10.1	9.6	9.1	9.3
2	10.4	9.4	9.8	11.0	10.2	10.7	10.4	9.7	10.0	9.5	9.1	9.3
3	10.4	9.5	9.8	10.9	10.3	10.7	10.3	9.6	9.9	9.6	9.0	9.2
4	---	---	---	10.9	10.3	10.5	10.2	9.5	9.7	9.6	9.0	9.2
5	---	---	---	10.6	10.0	10.3	10.4	9.5	9.8	9.7	8.8	9.1
6	---	---	---	10.6	9.9	10.2	10.4	9.6	10.0	9.5	8.6	9.0
7	---	---	---	10.7	9.9	10.3	10.4	9.5	9.9	9.4	8.4	8.8
8	---	---	---	10.5	9.6	10.0	10.2	9.5	9.8	9.3	8.2	8.6
9	10.5	10.1	10.3	10.4	9.3	9.9	10.1	9.2	9.6	9.1	8.0	8.4
10	10.6	10.2	10.3	10.7	9.7	10.3	10.3	9.3	9.7	8.9	7.8	8.2
11	10.5	10.1	10.3	10.7	9.4	9.9	10.2	9.4	9.7	8.9	7.5	8.0
12	10.5	10.2	10.3	9.8	8.8	9.2	10.1	9.3	9.6	8.8	7.3	7.9
13	10.6	10.3	10.4	10.2	9.2	9.8	9.7	9.2	9.4	8.8	7.1	7.7
14	10.6	10.2	10.4	10.2	9.2	9.8	9.7	9.1	9.3	9.0	7.2	7.8
15	10.8	10.3	10.5	10.0	9.0	9.5	9.5	9.0	9.2	8.9	7.4	8.0
16	10.7	10.4	10.5	10.0	9.2	9.7	9.7	9.1	9.3	8.9	7.3	8.0
17	10.8	10.3	10.5	9.9	8.7	9.6	9.6	8.9	9.2	8.8	7.3	7.9
18	10.6	10.4	10.5	10.1	9.7	9.9	9.4	8.7	8.8	8.8	7.3	7.9
19	10.6	10.1	10.4	10.1	9.4	9.8	9.3	8.7	8.9	8.7	6.8	7.6
20	10.9	10.3	10.6	10.2	9.5	9.9	9.5	8.8	9.1	8.6	6.8	7.4
21	11.0	10.5	10.7	10.3	9.4	10.0	9.2	8.8	9.0	8.4	6.7	7.2
22	11.1	10.5	10.7	10.4	9.8	10.2	9.2	8.6	8.8	7.7	6.7	7.1
23	11.1	10.6	10.8	10.6	9.8	10.4	9.3	8.6	8.9	8.1	6.7	7.2
24	11.0	10.5	10.8	10.8	9.9	10.3	9.1	8.6	8.8	8.4	6.5	7.1
25	11.1	10.5	10.8	10.6	9.5	10.0	8.9	8.5	8.7	8.4	6.6	7.3
26	11.0	10.4	10.8	10.5	9.1	9.7	9.1	8.6	8.9	8.5	6.7	7.3
27	10.9	10.5	10.8	10.2	9.2	9.6	9.2	8.9	9.0	8.6	6.8	7.4
28	10.9	10.2	10.6	9.9	8.8	9.2	9.1	8.9	9.0	8.1	6.6	7.0
29	11.0	10.3	10.6	10.7	9.1	9.8	9.5	8.8	9.1	7.3	6.7	6.9
30	---	---	---	10.7	9.4	9.8	9.5	9.1	9.3	8.0	7.0	7.3
31	---	---	---	10.2	9.5	9.9	---	---	---	8.3	7.0	7.6
MONTH	---	---	---	11.0	8.7	10.0	10.5	8.5	9.4	9.7	6.5	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	7.0	7.6	7.8	5.9	6.4	7.0	5.3	5.8	6.0	5.3	5.5
2	8.8	7.4	8.0	7.3	5.9	6.2	7.2	5.7	6.0	6.8	5.4	6.0
3	8.7	7.2	7.8	7.6	5.9	6.6	6.9	5.3	5.7	6.7	5.4	5.9
4	8.5	7.1	7.5	7.5	5.8	6.7	6.4	5.4	5.6	6.6	5.3	5.7
5	7.8	7.0	7.3	6.9	5.9	6.2	6.5	5.2	5.6	5.7	5.2	5.3
6	7.8	6.6	7.0	7.4	5.7	6.5	6.7	5.4	6.0	6.7	5.7	5.9
7	8.6	7.0	7.5	6.0	5.5	5.8	7.0	5.1	6.0	7.1	5.7	6.2
8	8.5	6.8	7.5	7.5	5.7	6.5	6.8	5.1	5.5	7.1	5.9	6.2
9	8.5	7.1	7.7	7.6	5.7	6.4	6.8	5.2	5.7	7.3	6.0	6.5
10	8.4	7.0	7.6	7.3	5.7	6.4	7.1	5.3	5.8	6.8	5.9	6.3
11	8.3	7.0	7.6	7.5	5.7	6.5	6.6	5.5	5.7	6.9	5.6	6.1
12	8.1	6.8	7.3	6.9	5.4	6.2	7.1	5.6	6.1	5.9	5.4	5.6
13	7.9	6.7	7.2	7.1	5.4	6.1	7.2	5.8	6.4	6.8	5.3	5.6
14	7.8	6.2	7.0	7.2	5.1	6.1	7.1	5.9	6.4	6.4	5.1	5.3
15	7.7	6.3	6.9	6.4	5.2	5.7	7.2	5.8	6.4	6.0	5.1	5.3
16	7.5	6.2	6.6	7.2	5.4	6.2	7.2	5.6	6.3	6.9	6.0	6.4
17	7.5	5.7	6.6	7.3	5.6	6.3	7.2	5.8	6.4	7.3	6.1	6.6
18	7.8	5.9	6.8	7.4	5.5	6.4	7.2	5.3	6.1	7.4	5.7	6.2
19	7.5	6.1	6.7	7.4	5.5	6.4	7.0	5.7	6.1	6.5	5.9	6.1
20	6.7	5.5	6.1	7.3	5.1	5.9	7.2	5.8	6.4	6.5	6.1	6.3
21	7.2	5.6	6.2	6.8	5.5	5.7	7.5	5.8	6.5	6.6	6.0	6.3
22	7.1	5.7	6.3	6.5	5.3	5.5	7.1	5.2	5.6	6.7	6.0	6.3
23	7.3	5.7	6.2	6.5	5.6	5.9	7.4	5.7	6.4	6.4	6.1	6.3
24	6.8	5.8	6.2	6.8	5.4	6.0	7.2	5.0	5.5	7.0	6.1	6.3
25	7.3	5.9	6.2	6.3	5.2	5.7	7.0	5.5	6.3	7.2	6.3	6.7
26	7.3	5.9	6.2	6.5	5.4	5.8	6.9	5.3	5.7	7.0	6.4	6.7
27	7.4	5.8	6.2	7.4	5.5	5.9	6.9	5.3	6.0	7.4	6.7	7.0
28	6.8	5.6	6.3	7.2	5.3	5.6	6.8	5.5	6.0	7.8	6.8	7.3
29	6.7	5.8	6.2	6.6	5.3	5.6	7.1	4.8	5.9	8.0	6.9	7.4
30	7.8	5.9	6.4	6.7	5.6	6.2	6.0	4.8	5.2	8.0	7.1	7.4
31	---	---	---	6.6	5.6	6.1	6.2	5.2	5.6	---	---	---
MONTH	8.8	5.5	6.9	7.8	5.1	6.1	7.5	4.8	6.0	8.0	5.1	6.2

0208062765 ROANOKE RIVER AT HALIFAX, 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	78	75	76	87	78	81	86	76	78	105	93	97
2	80	73	76	82	77	79	86	78	79	105	94	98
3	81	74	77	82	75	78	87	78	80	104	93	97
4	79	76	78	90	81	84	86	80	81	104	92	96
5	80	76	78	90	83	84	84	80	82	105	91	95
6	81	75	77	89	82	85	84	79	82	---	---	---
7	80	76	78	88	82	85	85	80	82	---	---	---
8	80	73	75	89	84	86	85	81	82	---	---	---
9	77	71	74	---	---	---	85	80	81	---	---	---
10	77	72	74	88	81	84	84	80	82	---	---	---
11	76	73	74	87	79	83	83	78	81	---	---	---
12	78	72	74	84	79	81	85	80	82	97	91	94
13	76	71	73	85	78	81	86	81	83	96	89	91
14	81	72	75	87	78	82	86	81	82	96	91	93
15	81	74	77	84	76	79	88	80	83	96	92	94
16	80	74	76	88	81	83	89	82	83	97	93	94
17	79	75	77	89	83	85	87	82	84	98	93	95
18	82	71	76	89	83	85	93	86	89	98	94	96
19	82	75	78	89	81	83	104	93	100	97	81	90
20	79	76	77	82	79	80	106	103	104	91	77	84
21	79	76	77	85	80	82	108	104	105	92	76	83
22	79	73	76	84	79	81	109	105	106	92	82	87
23	81	75	77	83	76	80	112	107	109	91	81	86
24	84	77	79	85	76	78	115	109	110	90	78	82
25	86	79	82	82	76	77	118	110	111	86	74	79
26	86	80	83	81	74	77	116	106	110	84	74	78
27	85	79	82	79	75	76	112	108	110	---	---	---
28	83	79	81	82	77	79	114	92	99	82	72	75
29	88	79	84	83	77	80	98	91	94	84	72	76
30	84	79	82	84	77	79	100	93	96	80	71	74
31	85	79	83	---	---	---	104	94	96	81	71	74
MONTH	88	71	78	---	---	---	118	76	91	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	80	71	74	97	88	93	102	89	98	98	92	94
2	80	71	74	98	89	93	100	92	95	97	92	94
3	79	71	74	97	90	93	101	92	96	99	91	95
4	---	---	---	97	90	92	100	92	94	101	91	95
5	---	---	---	94	88	91	101	91	95	101	90	94
6	---	---	---	98	88	92	102	91	96	102	90	95
7	---	---	---	98	89	92	103	91	96	103	88	94
8	---	---	---	96	88	92	102	92	97	102	89	94
9	83	78	79	100	88	93	100	90	95	103	88	93
10	84	79	80	99	90	96	101	90	95	101	87	93
11	83	79	80	101	88	93	101	90	95	102	84	91
12	82	80	81	95	84	89	99	90	94	102	83	90
13	82	80	81	95	84	92	96	89	91	103	82	90
14	85	80	81	94	84	90	94	88	90	105	82	91
15	87	81	83	94	84	89	93	88	90	104	84	93
16	88	82	83	94	84	90	97	88	91	104	82	91
17	89	82	84	94	82	91	96	88	92	102	83	91
18	86	83	84	93	89	91	94	85	88	102	84	92
19	87	82	85	94	85	89	93	86	88	103	80	90
20	90	84	86	94	87	91	94	85	89	102	80	88
21	91	84	87	94	86	91	93	86	89	100	76	84
22	92	85	87	94	88	92	93	87	90	90	77	82
23	93	86	89	97	88	94	95	86	89	95	78	84
24	94	87	90	100	90	94	93	86	89	100	74	83
25	96	88	91	100	89	94	90	86	87	101	79	87
26	96	88	91	100	88	94	91	87	89	103	80	87
27	95	88	91	100	88	93	90	87	89	103	78	87
28	97	89	93	95	85	89	90	87	88	95	76	82
29	97	88	93	104	86	94	95	87	90	83	75	79
30	---	---	---	104	88	92	96	90	93	90	78	81
31	---	---	---	98	90	93	---	---	---	95	79	86
MONTH	---	---	---	104	82	92	103	85	92	105	74	89

0208062765 ROANOKE RIVER AT HALIFAX, 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	97	78	86	98	72	78	88	64	71	75	65	67
2	102	82	90	90	72	76	92	71	75	84	67	74
3	102	81	89	95	73	82	87	65	70	82	66	72
4	98	79	85	93	72	83	80	67	70	81	64	70
5	88	79	82	86	73	77	80	64	69	70	64	65
6	89	75	79	94	71	82	82	67	74	80	68	71
7	100	80	87	74	67	71	90	62	75	87	68	75
8	99	76	86	93	70	80	89	65	70	87	70	75
9	100	81	89	95	69	79	89	68	73	89	72	79
10	100	81	89	90	71	79	92	68	74	83	71	75
11	100	82	89	96	72	83	84	69	73	85	68	74
12	97	81	87	87	68	77	91	70	77	72	65	68
13	96	78	86	88	66	76	92	72	81	85	64	68
14	95	73	83	90	63	76	89	73	79	80	62	65
15	95	77	84	79	65	71	91	74	81	72	61	64
16	92	75	81	91	68	77	93	71	80	85	72	77
17	92	71	82	91	71	79	92	76	83	87	73	78
18	97	72	85	94	70	80	94	67	77	89	68	73
19	94	76	84	94	70	81	88	72	77	76	69	72
20	84	67	74	94	64	74	92	72	80	78	71	74
21	90	68	75	86	68	72	95	73	82	78	71	75
22	88	70	76	80	66	68	89	64	70	80	72	75
23	91	69	75	81	68	73	94	72	81	76	72	74
24	83	71	75	85	66	73	93	63	70	84	71	75
25	91	72	75	74	63	68	89	70	80	86	74	79
26	91	72	75	78	65	69	88	67	71	79	75	76
27	93	71	76	91	67	71	88	67	75	84	77	80
28	84	69	78	89	64	68	85	69	75	90	78	84
29	82	71	75	81	64	67	88	59	73	93	79	85
30	99	73	79	83	67	75	73	59	63	90	81	85
31	---	---	---	80	67	73	75	64	68	---	---	---
MONTH	102	67	82	98	63	75	95	59	75	93	61	74



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

02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC

LOCATION.--Lat 36°12'34", long 77°23'03", Halifax County, Hydrologic Unit 03010107, on right bank 50 ft upstream from bridge on U.S. Highway 258, 3 mi downstream from Bridgers Creek, and 5.8 mi north of Scotland Neck.

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

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

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

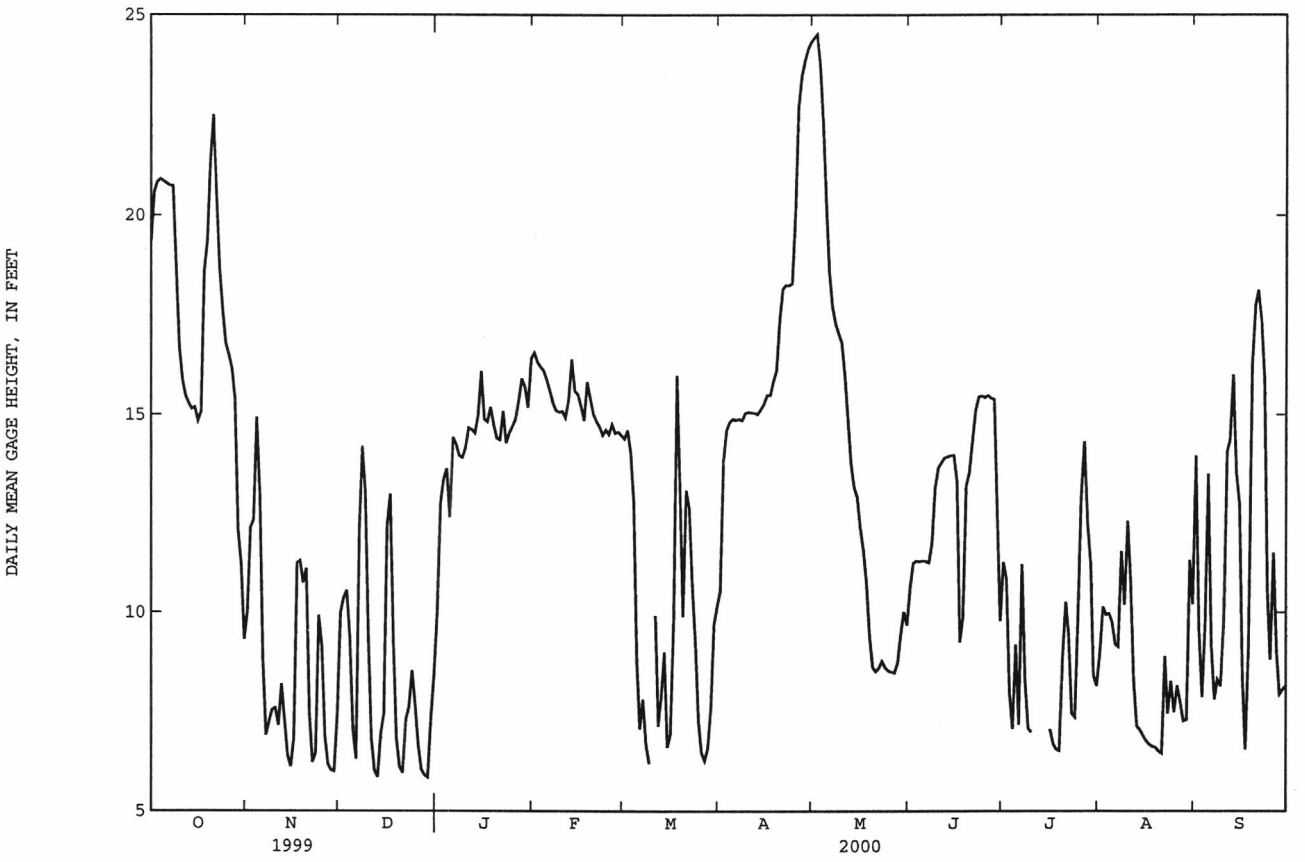
EXTREMES FOR PERIOD OF RECORD.--Maximum, 41.98 ft, Aug. 19, 1940; minimum not determined

EXTREMES FOR CURRENT YEAR.--Maximum, 24.55 ft, May 2; minimum, 5.81 ft, Dec. 30.

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	19.34	10.02	9.98	10.01	16.55	14.39	10.55	24.42	10.64	11.27	8.98	13.95
2	20.59	12.14	10.37	12.74	16.32	14.60	13.83	24.51	11.24	10.84	10.14	9.60
3	20.83	12.33	10.55	13.36	16.20	14.03	14.61	23.75	11.30	8.00	9.95	7.87
4	20.90	14.93	9.36	13.63	16.10	12.79	14.81	22.28	11.28	7.07	9.97	9.58
5	20.85	13.00	7.05	12.40	15.87	8.83	14.89	20.27	11.30	9.19	9.76	13.50
6	20.79	8.79	6.31	14.42	15.60	7.07	14.86	18.57	11.29	7.18	9.20	9.18
7	20.74	6.91	12.10	14.25	15.29	7.82	14.89	17.70	11.25	11.21	9.14	7.82
8	20.73	7.25	14.19	13.96	15.10	6.69	14.85	17.28	11.75	8.29	11.53	8.31
9	18.67	7.55	13.05	13.91	15.06	6.20	15.04	17.03	13.14	7.08	10.20	8.15
10	16.69	7.59	9.34	14.16	15.08	---	15.06	16.81	13.65	6.99	12.30	9.81
11	15.87	7.16	6.83	14.66	14.92	9.92	15.05	16.00	13.78	---	10.85	14.07
12	15.47	8.19	6.02	14.62	15.37	7.14	15.04	14.91	13.90	---	8.29	14.36
13	15.29	7.28	5.85	14.53	16.38	7.87	15.01	13.77	13.93	---	7.14	15.99
14	15.14	6.39	6.95	14.99	15.59	9.00	15.13	13.16	13.96	8.85	7.05	13.52
15	15.18	6.12	7.44	16.08	15.51	6.61	15.26	12.91	13.97	---	6.91	12.75
16	14.84	6.82	12.20	14.88	15.21	6.95	15.49	12.14	13.31	7.06	6.77	8.35
17	15.06	11.24	12.98	14.82	14.85	9.82	15.49	11.58	9.25	6.70	6.68	6.56
18	18.61	11.30	9.29	15.19	15.82	15.99	15.84	10.73	9.88	6.56	6.63	9.19
19	19.34	10.75	6.85	14.74	15.40	13.14	16.10	9.41	13.19	6.52	6.61	16.24
20	21.33	11.11	6.12	14.40	15.00	9.90	17.37	8.62	13.53	8.81	6.51	17.74
21	22.50	7.47	5.96	14.36	14.83	13.09	18.15	8.51	14.33	10.26	6.46	18.12
22	20.56	6.23	7.29	15.08	14.69	12.63	18.25	8.60	15.09	9.47	8.89	17.38
23	18.70	6.45	7.61	14.28	14.48	10.67	18.24	8.77	15.44	7.46	7.46	15.91
24	17.63	9.92	8.53	14.54	14.61	9.23	18.29	8.61	15.47	7.36	8.27	10.58
25	16.79	9.17	7.65	14.70	14.50	7.27	20.03	8.53	15.43	10.11	7.49	8.82
26	16.50	6.89	6.64	14.88	14.75	6.47	22.68	8.50	15.48	12.91	8.16	11.50
27	16.17	6.18	6.04	15.35	14.53	6.27	23.47	8.48	15.41	14.32	7.76	8.99
28	15.39	6.03	5.91	15.90	14.56	6.58	23.85	8.72	15.38	12.25	7.27	7.94
29	12.07	6.00	5.85	15.70	14.47	7.61	24.14	9.44	12.50	11.24	7.30	8.06
30	11.22	7.44	7.32	15.18	---	9.70	24.32	10.02	9.79	8.42	11.31	8.15
31	9.32	---	8.46	16.41	---	10.15	---	9.68	---	8.15	10.21	---
MEAN	17.52	8.62	8.39	14.46	15.26	---	17.02	13.67	13.00	---	8.55	11.40
MAX	22.50	14.93	14.19	16.41	16.55	---	24.32	24.51	15.48	---	12.30	18.12
MIN	9.32	6.00	5.85	10.01	14.47	---	10.55	8.48	9.25	---	6.46	6.56

02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC--Continued



360533077131601 BIG SWASH TRANSECT (SITE #1)

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

DRAINAGE AREA.--Indeterminate.

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

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

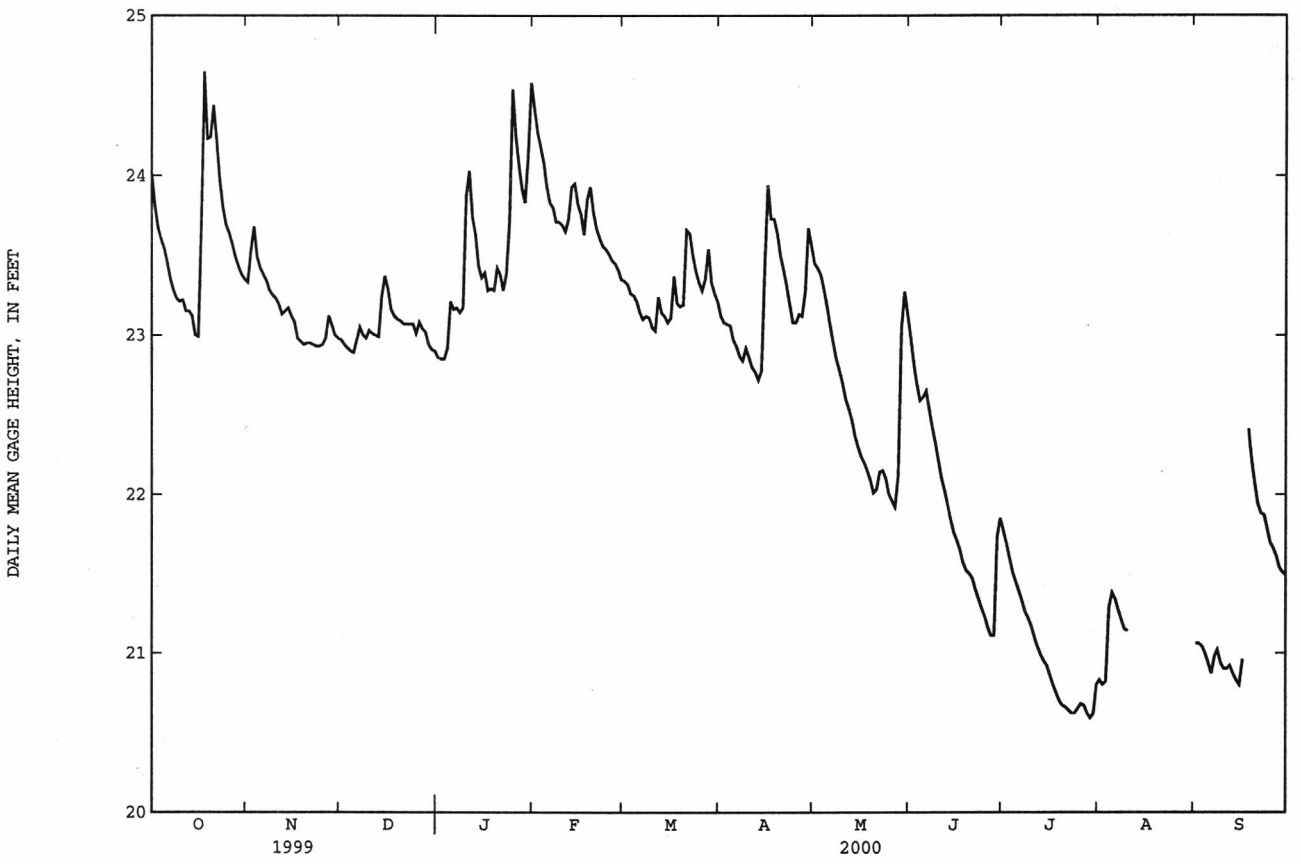
EXTREMES FOR PERIOD OF RECORD.--Maximum, 27.24 ft, Sept. 18, 1999; minimum, 20.35 ft, Aug. 26, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 25.04 ft, Oct. 17; minimum, not determined.

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	24.01	23.33	22.97	22.86	24.42	23.34	23.12	23.45	22.98	21.77	20.83	21.06
2	23.81	23.53	22.94	22.85	24.27	23.32	23.08	23.42	22.82	21.69	20.80	21.06
3	23.67	23.68	22.92	22.85	24.18	23.26	23.07	23.38	22.69	21.60	20.82	21.04
4	23.60	23.49	22.90	22.92	24.08	23.25	23.06	23.29	22.59	21.51	21.28	21.00
5	23.54	23.42	22.89	23.21	23.93	23.21	22.97	23.18	22.61	21.45	21.38	20.94
6	23.45	23.38	22.97	23.16	23.83	23.14	22.93	23.06	22.65	21.39	21.34	20.87
7	23.35	23.34	23.05	23.17	23.80	23.10	22.87	22.95	22.53	21.33	21.27	20.98
8	23.28	23.28	23.00	23.14	23.71	23.12	22.84	22.85	22.42	21.26	21.21	21.02
9	23.23	23.25	22.98	23.17	23.71	23.11	22.92	22.78	22.32	21.22	21.15	20.94
10	23.21	23.23	23.03	23.87	23.69	23.05	22.86	22.70	22.21	21.17	21.14	20.90
11	23.22	23.19	23.01	24.03	23.65	23.03	22.80	22.60	22.10	21.10	---	20.90
12	23.15	23.13	23.00	23.74	23.73	23.24	22.77	22.54	22.02	21.04	---	20.92
13	23.15	23.15	22.99	23.63	23.93	23.14	22.72	22.47	21.93	20.99	---	20.87
14	23.12	23.17	23.24	23.43	23.95	23.12	22.78	22.37	21.84	20.95	---	20.83
15	23.00	23.12	23.37	23.36	23.82	23.08	23.43	22.30	21.76	20.92	---	20.80
16	22.99	23.08	23.29	23.39	23.76	23.11	23.94	22.24	21.71	20.86	---	20.96
17	23.70	22.98	23.16	23.28	23.63	23.37	23.73	22.20	21.65	20.80	---	---
18	24.65	22.96	23.12	23.29	23.85	23.20	23.73	22.15	21.57	20.75	---	22.41
19	24.23	22.94	23.10	23.28	23.93	23.18	23.64	22.09	21.52	20.70	---	22.21
20	24.24	22.95	23.09	23.42	23.77	23.19	23.50	22.01	21.50	20.67	---	22.06
21	24.44	22.95	23.07	23.38	23.67	23.66	23.41	22.03	21.47	20.66	---	21.94
22	24.21	22.94	23.07	23.28	23.61	23.64	23.31	22.14	21.40	20.64	---	21.88
23	23.97	22.93	23.07	23.38	23.56	23.50	23.19	22.15	21.34	20.62	---	21.87
24	23.80	22.93	23.07	23.71	23.54	23.40	23.08	22.10	21.28	20.62	---	21.78
25	23.69	22.94	23.01	24.54	23.51	23.33	23.08	22.00	21.23	20.65	---	21.70
26	23.64	22.98	23.08	24.25	23.47	23.28	23.13	21.96	21.16	20.68	---	21.66
27	23.57	23.12	23.04	24.07	23.45	23.35	23.12	21.92	21.11	20.67	---	21.61
28	23.49	23.06	23.02	23.92	23.41	23.54	23.27	22.12	21.11	20.62	---	21.54
29	23.43	23.00	22.94	23.83	23.35	23.33	23.67	23.04	21.73	20.59	---	21.51
30	23.38	22.98	22.91	24.13	---	23.26	23.56	23.27	21.85	20.62	---	21.49
31	23.35	---	22.90	24.58	---	23.21	---	23.13	---	20.80	---	---
MEAN	23.60	23.15	23.04	23.52	23.77	23.26	23.19	22.58	21.90	20.98	---	---
MAX	24.65	23.68	23.37	24.58	24.42	23.66	23.94	23.45	22.98	21.77	---	---
MIN	22.99	22.93	22.89	22.85	23.35	23.03	22.72	21.92	21.11	20.59	---	---

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



360356077172601 BIG SWASH TRANSECT (SITE #2)

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

DRAINAGE AREA.--Indeterminate.

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

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

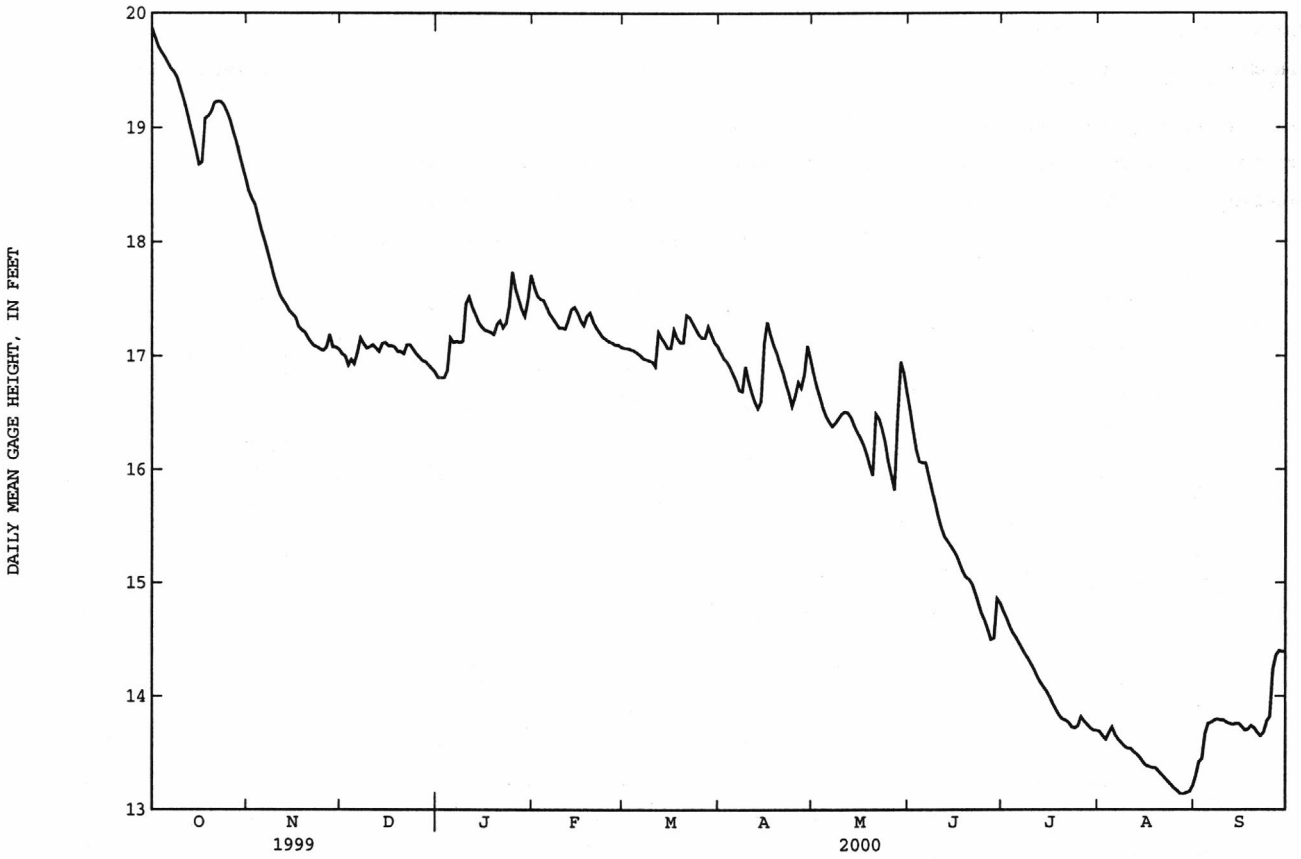
EXTREMES FOR PERIOD OF RECORD.--Maximum, 23.80 ft, Sept. 18, 19, 1999; minimum, 13.14 ft, Aug. 26, 27, 28, 29, 30, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum, 19.93 ft, Oct. 1; minimum, 13.14 ft, Aug. 26, 27, 28, 29, 30.

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	19.87	18.45	17.02	16.81	17.61	17.07	17.03	16.84	16.52	14.75	13.69	13.30
2	19.79	18.38	17.00	16.81	17.53	17.07	16.98	16.73	16.34	14.69	13.65	13.42
3	19.71	18.33	16.92	16.81	17.50	17.06	16.95	16.64	16.17	14.62	13.62	13.45
4	19.66	18.22	16.97	16.87	17.49	17.05	16.90	16.54	16.07	14.56	13.68	13.67
5	19.62	18.11	16.93	17.16	17.43	17.03	16.84	16.47	16.06	14.52	13.73	13.76
6	19.57	18.02	17.03	17.12	17.37	17.01	16.78	16.42	16.06	14.47	13.66	13.77
7	19.52	17.92	17.16	17.13	17.33	16.98	16.70	16.38	15.94	14.42	13.62	13.79
8	19.49	17.82	17.11	17.12	17.29	16.97	16.69	16.41	15.82	14.37	13.59	13.80
9	19.44	17.71	17.07	17.13	17.25	16.96	16.91	16.45	15.71	14.33	13.56	13.79
10	19.35	17.62	17.08	17.46	17.25	16.95	16.78	16.49	15.59	14.28	13.54	13.79
11	19.26	17.54	17.10	17.52	17.24	16.91	16.68	16.51	15.49	14.23	13.54	13.77
12	19.16	17.49	17.07	17.43	17.32	17.21	16.60	16.50	15.41	14.17	13.51	13.76
13	19.04	17.45	17.04	17.37	17.41	17.16	16.54	16.46	15.37	14.12	13.49	13.75
14	18.93	17.40	17.11	17.30	17.43	17.12	16.60	16.39	15.33	14.08	13.46	13.76
15	18.81	17.37	17.12	17.26	17.38	17.07	17.11	16.33	15.29	14.04	13.42	13.76
16	18.68	17.34	17.09	17.23	17.31	17.07	17.30	16.28	15.24	13.99	13.39	13.73
17	18.70	17.26	17.09	17.22	17.27	17.23	17.19	16.22	15.17	13.93	13.38	13.70
18	19.08	17.23	17.08	17.21	17.35	17.16	17.10	16.14	15.10	13.88	13.37	13.71
19	19.10	17.21	17.04	17.19	17.38	17.12	17.03	16.04	15.05	13.83	13.37	13.74
20	19.14	17.16	17.04	17.28	17.30	17.12	16.94	15.95	15.03	13.80	13.34	13.72
21	19.22	17.12	17.02	17.31	17.25	17.36	16.86	16.49	14.99	13.79	13.31	13.68
22	19.23	17.09	17.10	17.25	17.21	17.34	16.76	16.45	14.91	13.77	13.28	13.65
23	19.23	17.08	17.10	17.29	17.17	17.29	16.67	16.36	14.82	13.73	13.25	13.68
24	19.20	17.06	17.06	17.44	17.15	17.24	16.56	16.24	14.73	13.72	13.22	13.78
25	19.14	17.05	17.02	17.74	17.13	17.19	16.65	16.07	14.67	13.74	13.19	13.82
26	19.07	17.08	16.99	17.59	17.12	17.16	16.77	15.95	14.59	13.82	13.17	14.24
27	18.97	17.19	16.96	17.50	17.10	17.16	16.72	15.82	14.50	13.78	13.14	14.36
28	18.88	17.08	16.95	17.41	17.10	17.26	16.84	16.47	14.51	13.75	13.14	14.40
29	18.77	17.08	16.92	17.35	17.08	17.19	17.09	16.95	14.86	13.72	13.15	14.39
30	18.66	17.06	16.89	17.49	---	17.12	16.97	16.85	14.82	13.70	13.16	14.39
31	18.56	---	16.86	17.71	---	17.09	---	16.68	---	13.70	13.21	---
MEAN	19.19	17.50	17.03	17.27	17.30	17.12	16.85	16.40	15.34	14.07	13.41	13.81
MAX	19.87	18.45	17.16	17.74	17.61	17.36	17.30	16.95	16.52	14.75	13.73	14.40
MIN	18.56	17.05	16.86	16.81	17.08	16.91	16.54	15.82	14.50	13.70	13.14	13.30

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



360347077191401 BIG SWASH TRANSECT (SITE #3)

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

DRAINAGE AREA.--Indeterminate.

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

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

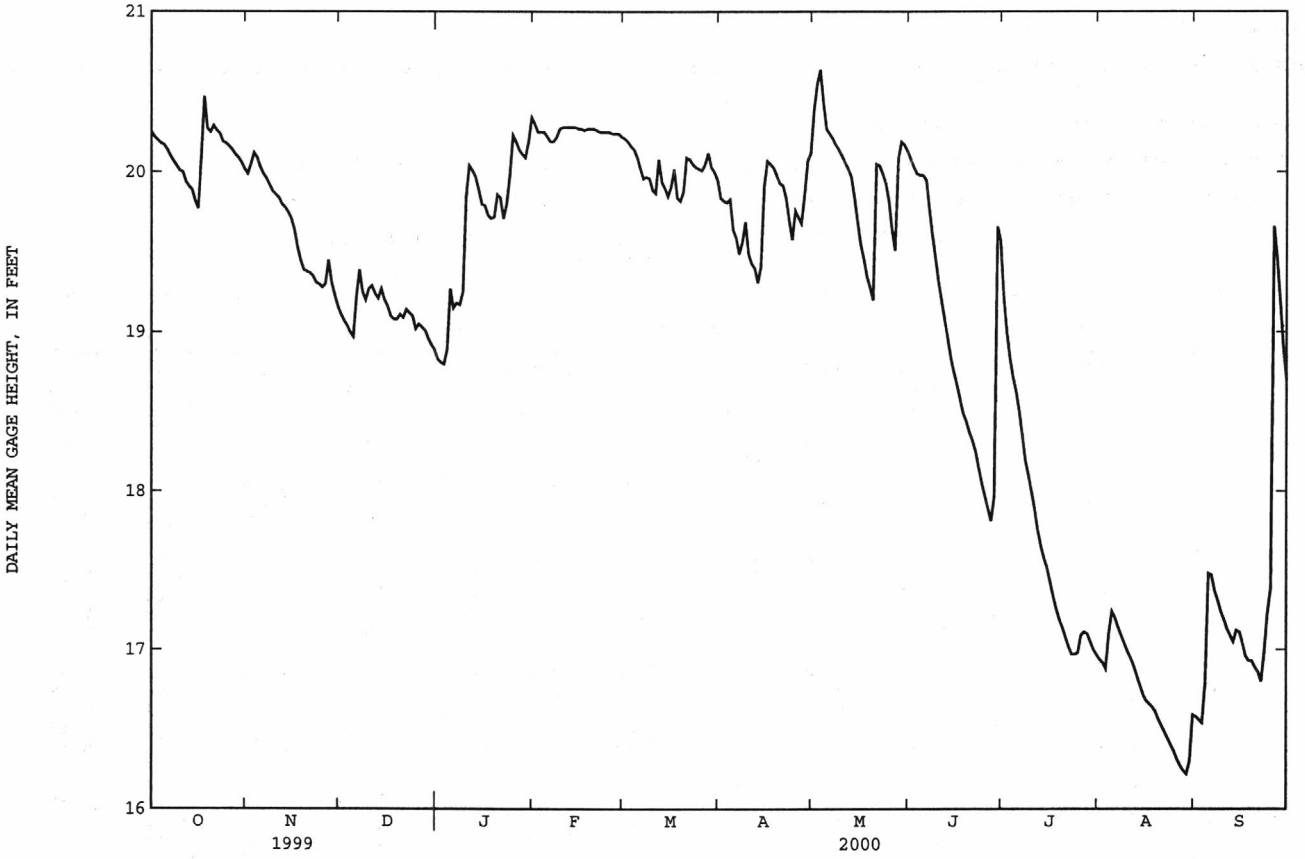
EXTREMES FOR PERIOD OF RECORD.--Maximum, 23.77 ft, Sept. 18, 19, 1999; minimum, 13.03 ft, Dec. 30, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 20.97 ft, Oct. 17; minimum, 16.20 ft, Aug. 30.

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	20.25	19.99	19.11	18.83	20.30	20.21	19.84	20.39	20.08	19.22	16.94	16.58
2	20.22	20.05	19.07	18.81	20.25	20.19	19.82	20.55	20.03	19.00	16.92	16.56
3	20.20	20.12	19.04	18.80	20.25	20.16	19.81	20.64	19.99	18.84	16.88	16.54
4	20.18	20.09	19.00	18.89	20.25	20.14	19.83	20.43	19.98	18.72	17.10	16.79
5	20.17	20.03	18.97	19.27	20.22	20.09	19.64	20.27	19.98	18.63	17.24	17.48
6	20.14	19.99	19.22	19.15	20.19	20.02	19.59	20.24	19.95	18.51	17.20	17.47
7	20.10	19.96	19.39	19.18	20.19	19.96	19.49	20.21	19.77	18.36	17.14	17.37
8	20.07	19.92	19.25	19.17	20.22	19.97	19.56	20.17	19.60	18.20	17.09	17.31
9	20.04	19.88	19.20	19.25	20.27	19.96	19.69	20.14	19.46	18.10	17.04	17.24
10	20.01	19.86	19.27	19.85	20.28	19.89	19.49	20.10	19.31	18.00	16.99	17.19
11	20.00	19.84	19.29	20.04	20.28	19.87	19.43	20.06	19.19	17.89	16.95	17.13
12	19.94	19.80	19.24	20.01	20.28	20.08	19.40	20.02	19.07	17.76	16.90	17.09
13	19.91	19.78	19.21	19.97	20.28	19.94	19.31	19.97	18.96	17.66	16.84	17.05
14	19.89	19.75	19.27	19.89	20.28	19.90	19.41	19.84	18.84	17.58	16.78	17.12
15	19.82	19.71	19.20	19.80	20.27	19.85	19.91	19.69	18.75	17.52	16.72	17.11
16	19.77	19.64	19.16	19.79	20.27	19.91	20.07	19.55	18.67	17.43	16.68	17.04
17	20.10	19.53	19.10	19.73	20.26	20.02	20.05	19.46	18.58	17.34	16.66	16.96
18	20.47	19.45	19.08	19.71	20.27	19.84	20.03	19.35	18.49	17.26	16.64	16.93
19	20.27	19.39	19.08	19.72	20.27	19.82	19.98	19.28	18.44	17.19	16.61	16.93
20	20.25	19.38	19.11	19.86	20.27	19.88	19.93	19.20	18.37	17.14	16.56	16.89
21	20.29	19.37	19.09	19.84	20.26	20.09	19.92	20.05	18.32	17.08	16.52	16.86
22	20.26	19.35	19.14	19.71	20.25	20.08	19.84	20.04	18.25	17.02	16.48	16.80
23	20.24	19.31	19.12	19.80	20.25	20.05	19.70	19.99	18.15	16.97	16.44	16.99
24	20.19	19.30	19.10	19.98	20.25	20.03	19.58	19.93	18.05	16.97	16.40	17.23
25	20.18	19.28	19.02	20.23	20.25	20.02	19.76	19.82	17.97	16.98	16.36	17.38
26	20.16	19.30	19.05	20.19	20.24	20.01	19.72	19.64	17.89	17.09	16.31	19.66
27	20.14	19.45	19.03	20.14	20.24	20.05	19.68	19.51	17.81	17.11	16.27	19.46
28	20.11	19.31	19.01	20.11	20.24	20.12	19.86	20.08	17.96	17.10	16.24	19.19
29	20.09	19.23	18.96	20.09	20.22	20.03	20.07	20.19	19.66	17.05	16.22	18.90
30	20.06	19.16	18.92	20.19	---	20.00	20.12	20.17	19.57	17.00	16.30	18.70
31	20.02	---	18.89	20.34	---	19.95	---	20.13	---	16.97	16.59	---
MEAN	20.11	19.64	19.12	19.69	20.25	20.00	19.75	19.97	18.97	17.67	16.71	17.40
MAX	20.47	20.12	19.39	20.34	20.30	20.21	20.12	20.64	20.08	19.22	17.24	19.66
MIN	19.77	19.16	18.89	18.80	20.19	19.82	19.31	19.20	17.81	16.97	16.22	16.54

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



0208102115 ROANOKE RIVER NEAR HILLS FERRY, NC

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

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

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

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

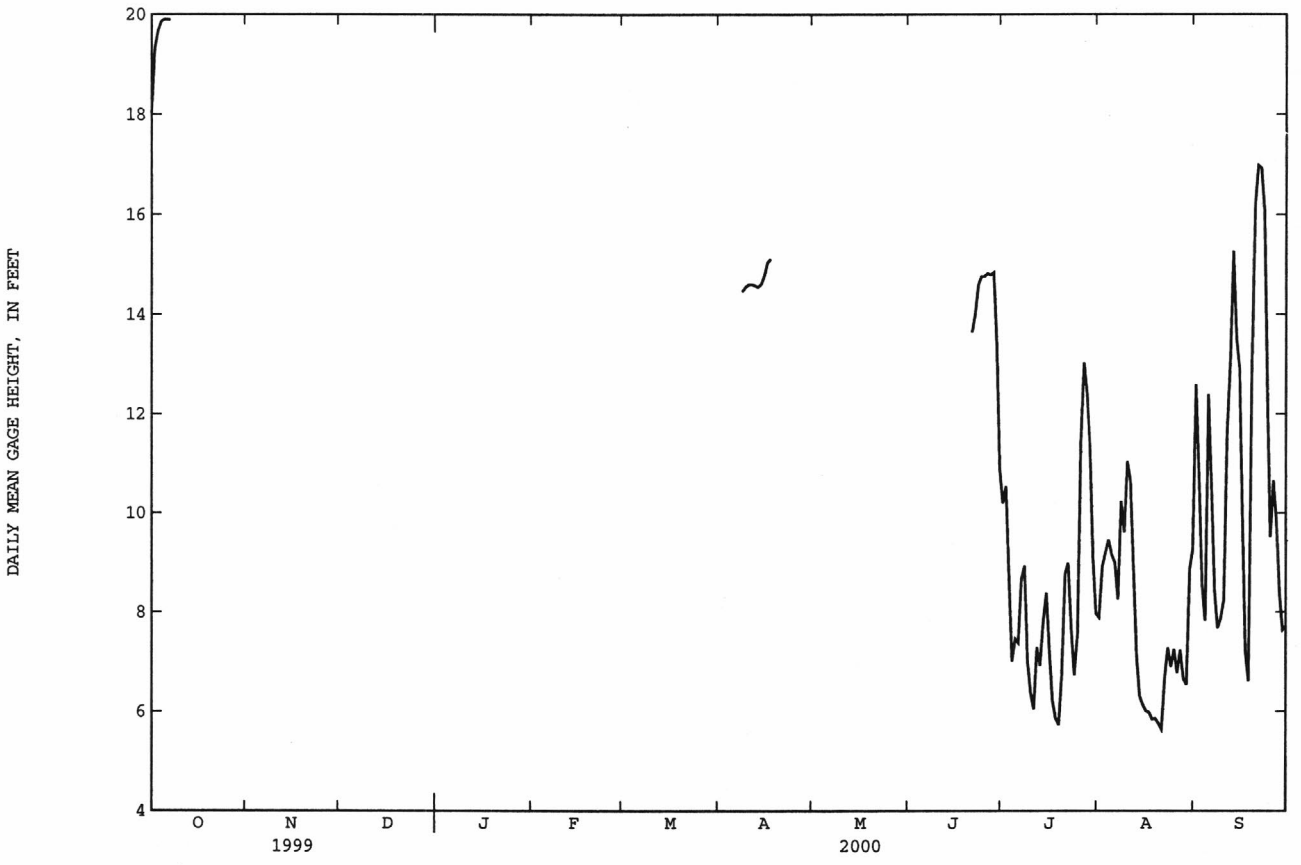
EXTREMES FOR PERIOD OF RECORD.--Maximum, 24.52 ft, Sept. 18, 19, 1999; minimum, 2.95 ft, Nov. 4, 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, undetermined; minimum, undetermined.

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	18.03	---	---	---	---	---	---	---	---	10.20	7.89	12.59
2	19.32	---	---	---	---	---	---	---	---	10.54	8.91	10.79
3	19.67	---	---	---	---	---	---	---	---	8.68	9.20	8.55
4	19.85	---	---	---	---	---	---	---	---	7.01	9.46	7.83
5	19.90	---	---	---	---	---	---	---	---	7.46	9.16	12.39
6	19.90	---	---	---	---	---	---	---	---	7.38	9.00	10.57
7	19.89	---	---	---	---	---	---	---	---	8.68	8.26	8.45
8	---	---	---	---	---	---	14.46	---	---	8.94	10 24	7.68
9	---	---	---	---	---	---	14.55	---	---	7.01	9.61	7.87
10	---	---	---	---	---	---	14.60	---	---	6.37	11.04	8.25
11	---	---	---	---	---	---	14.60	---	---	6.05	10.64	11.61
12	---	---	---	---	---	---	14.58	---	---	7.29	8.88	13.05
13	---	---	---	---	---	---	14.55	---	---	6.92	7.13	15.27
14	---	---	---	---	---	---	14.61	---	---	7.81	6.31	13.52
15	---	---	---	---	---	---	14.78	---	---	8.39	6.13	12.92
16	---	---	---	---	---	---	15.04	---	---	7.22	6.01	9.92
17	---	---	---	---	---	---	15.11	---	---	6.21	5.98	7.21
18	---	---	---	---	---	---	---	---	---	5.86	5.84	6.61
19	---	---	---	---	---	---	---	---	---	5.73	5.86	12.89
20	---	---	---	---	---	---	---	---	---	6.73	5.76	16.18
21	---	---	---	---	---	---	---	---	13.64	8.77	5.64	16.98
22	---	---	---	---	---	---	---	---	14.00	8.99	6.66	16.93
23	---	---	---	---	---	---	---	---	14.58	7.68	7.28	16.10
24	---	---	---	---	---	---	---	---	14.76	6.73	6.90	12.47
25	---	---	---	---	---	---	---	---	14.76	7.54	7.25	9.52
26	---	---	---	---	---	---	---	---	14.82	11.46	6.78	10.65
27	---	---	---	---	---	---	---	---	14.79	13.03	7.24	9.82
28	---	---	---	---	---	---	---	---	14.84	12.41	6.66	8.38
29	---	---	---	---	---	---	---	---	13.38	11.31	6.54	7.64
30	---	---	---	---	---	---	---	---	10.87	9.10	8.87	7.71
31	---	---	---	---	---	---	---	---	---	7.97	9.28	---
MEAN	---	---	---	---	---	---	---	---	---	8.24	7.76	11.01
MAX	---	---	---	---	---	---	---	---	---	13.03	11.04	16.98
MIN	---	---	---	---	---	---	---	---	---	5.73	5.64	6.61

0208102115 ROANOKE RIVER NEAR HILLS FERRY, NC--Continued



02081022 ROANOKE RIVER NEAR OAK CITY, NC

LOCATION.--Lat 36°00'50", long 77°12'55", Martin County, Hydrologic Unit 03010107, on right bank at bridge on State Highway 11-42, and 5.2 mi northeast of Oak City.

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

GAGE-HEIGHT RECORDS

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

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

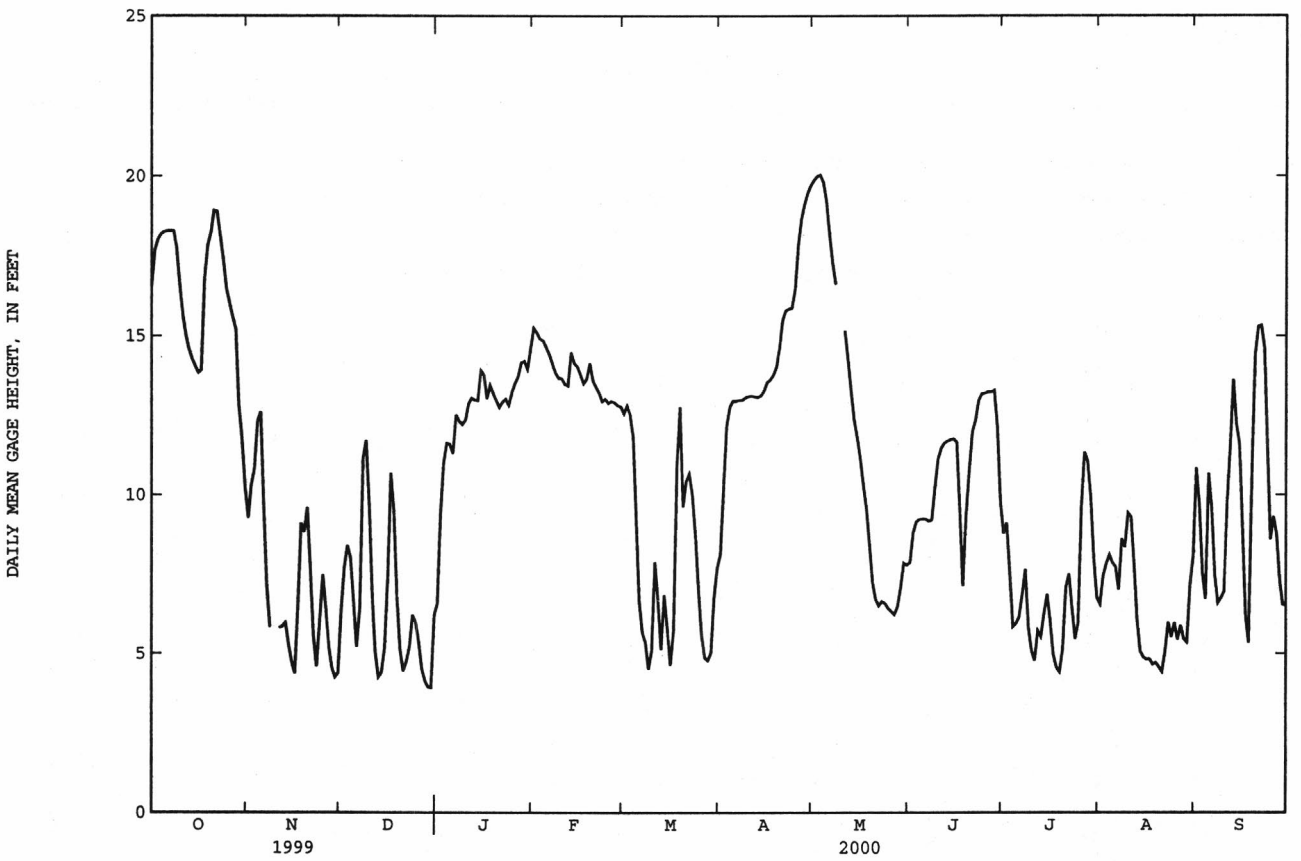
EXTREMES FOR PERIOD OF RECORD.--Maximum, 22.07 ft, Sept. 19, 1999; minimum, 2.31 ft, Nov. 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 20.07 ft, May 3; minimum, 3.81 ft, Dec. 30.

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	16.56	9.27	6.37	6.55	15.24	12.56	8.12	19.87	7.86	8.78	6.55	10.84
2	17.68	10.29	7.71	9.38	15.10	12.80	10.17	19.99	8.79	9.11	7.43	9.72
3	18.02	10.80	8.40	11.00	14.90	12.52	12.17	20.04	9.14	7.52	7.82	7.55
4	18.19	12.32	8.01	11.62	14.85	11.84	12.75	19.81	9.22	5.84	8.10	6.71
5	18.25	12.61	6.64	11.59	14.64	9.22	12.95	19.21	9.23	5.94	7.85	10.68
6	18.28	9.75	5.21	11.29	14.41	6.63	12.95	18.18	9.23	6.14	7.72	9.57
7	18.28	7.12	6.40	12.52	14.11	5.67	12.98	17.28	9.16	6.84	7.00	7.48
8	18.28	5.83	11.14	12.31	13.83	5.35	12.98	16.61	9.20	7.64	8.60	6.58
9	17.79	---	11.71	12.21	13.67	4.51	13.06	---	10.20	5.80	8.34	6.74
10	16.61	---	9.73	12.35	13.66	5.07	13.10	---	11.12	5.08	9.42	6.95
11	15.68	5.81	6.87	12.86	13.48	7.88	13.11	15.16	11.46	4.77	9.29	9.81
12	15.02	5.85	5.04	13.04	13.43	6.67	13.09	14.28	11.62	5.71	7.76	11.53
13	14.60	5.97	4.25	12.98	14.48	5.13	13.07	13.26	11.69	5.52	6.01	13.62
14	14.29	5.27	4.40	12.96	14.14	6.84	13.12	12.36	11.73	6.25	5.07	12.23
15	14.04	4.74	5.15	13.91	14.03	5.79	13.28	11.79	11.76	6.85	4.88	11.59
16	13.84	4.37	7.35	13.77	13.78	4.63	13.54	11.14	11.65	6.02	4.81	8.94
17	13.92	6.57	10.68	13.02	13.50	5.72	13.62	10.29	9.54	4.96	4.82	6.23
18	16.82	9.10	9.49	13.45	13.64	10.90	13.77	9.55	7.12	4.55	4.65	5.34
19	17.85	8.82	6.76	13.19	14.14	12.76	14.03	8.40	9.32	4.41	4.70	10.77
20	18.25	9.60	5.13	12.96	13.59	9.62	14.61	7.22	10.76	5.13	4.57	14.41
21	18.92	7.63	4.44	12.75	13.39	10.42	15.48	6.70	11.98	7.07	4.42	15.28
22	18.89	5.57	4.73	12.92	13.21	10.66	15.78	6.50	12.35	7.50	5.08	15.32
23	18.14	4.58	5.20	13.01	12.94	10.00	15.84	6.63	12.96	6.43	5.98	14.62
24	17.35	6.02	6.20	12.82	13.01	8.70	15.87	6.57	13.17	5.46	5.52	11.48
25	16.49	7.48	5.98	13.22	12.89	6.97	16.44	6.42	13.19	5.94	5.97	8.59
26	16.03	6.41	5.36	13.50	12.94	5.58	17.86	6.32	13.24	9.62	5.43	9.31
27	15.58	5.21	4.51	13.72	12.90	4.87	18.68	6.22	13.23	11.34	5.88	8.76
28	15.20	4.55	4.14	14.15	12.81	4.78	19.13	6.46	13.28	11.04	5.45	7.34
29	12.87	4.25	3.94	14.20	12.77	5.02	19.47	7.06	12.10	9.95	5.35	6.53
30	11.79	4.38	3.92	13.95	---	6.78	19.71	7.84	9.75	7.99	7.18	6.52
31	10.25	---	6.21	14.59	---	7.69	---	7.78	---	6.75	8.07	---
MEAN	16.25	---	6.49	12.64	13.78	7.86	14.36	---	10.84	6.84	6.44	9.70
MAX	18.92	---	11.71	14.59	15.24	12.80	19.71	---	13.28	11.34	9.42	15.32
MIN	10.25	---	3.92	6.55	12.77	4.51	8.12	---	7.12	4.41	4.42	5.34

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued



02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1998 to current year.

pH: March 1998 to current year.

WATER TEMPERATURE: March 1998 to current year.

DISSOLVED OXYGEN: March 1998 to current year.

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

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

REMARKS.--Station operated in cooperation with U.S. Fish and Wildlife Service to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Partial record site from October 1967 to September 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	170, April 6, 1999	52, September 17, 1999
pH, standard units	7.5, July 21, 1999, April 13, 2000	6.1, September 17, 1999
WATER TEMPERATURE, °C	30.7, August 2, 1999	3.1, January 29, 30, 2000
DISSOLVED OXYGEN, mg/L	15.5, January 6, 7, 1999	3.5, September 23, 24 1999
DISSOLVED OXYGEN, PERCENT SATURATION,%	123, January 6,7, 1999	38, September 23, 1999

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	159, June 9	88, September 7
pH, standard units	7.5, April 13	6.5, September 3, 5
WATER TEMPERATURE, °C	29.7, August 10	3.1, January 29, 30
DISSOLVED OXYGEN, mg/L	12.8, February 7	4.4, September 7
DISSOLVED OXYGEN, PERCENT SATURATION,%	103, March 19	52, September 7

02081022 ROANOKE RIVER NEAR OAK CITY, 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	95	92	93	---	---	---	128	122	126	129	111	119
2	94	92	93	---	---	---	122	115	119	128	110	118
3	93	90	92	---	---	---	124	113	118	117	109	112
4	93	92	92	---	---	---	125	114	120	117	111	113
5	93	92	93	---	---	---	136	115	120	118	111	114
6	93	92	93	---	---	---	137	118	125	120	112	116
7	96	93	95	---	---	---	137	118	130	130	112	117
8	---	---	---	---	---	---	134	113	121	120	113	116
9	---	---	---	---	---	---	118	113	116	120	113	116
10	---	---	---	---	---	---	121	114	118	120	111	115
11	---	---	---	121	118	120	125	116	120	118	110	114
12	---	---	---	122	121	121	132	118	122	117	108	112
13	---	---	---	129	120	124	140	132	138	120	106	115
14	---	---	---	128	114	118	141	138	139	123	111	117
15	---	---	---	130	117	126	138	130	134	119	111	114
16	---	---	---	130	124	128	131	119	125	114	109	111
17	---	---	---	129	119	125	126	111	116	115	109	112
18	---	---	---	119	109	112	118	112	115	118	110	114
19	---	---	---	114	109	111	123	112	117	117	110	112
20	---	---	---	116	110	114	132	115	120	116	110	113
21	---	---	---	115	110	112	137	132	136	116	111	113
22	---	---	---	116	111	113	135	132	133	118	112	114
23	---	---	---	131	116	126	135	132	134	117	111	114
24	---	---	---	130	126	128	135	117	125	116	111	113
25	---	---	---	128	116	122	130	115	123	118	109	112
26	---	---	---	127	114	118	124	114	117	113	108	110
27	---	---	---	128	117	121	130	117	126	113	108	111
28	---	---	---	131	120	128	129	114	122	113	109	111
29	---	---	---	130	127	129	130	129	129	114	109	111
30	---	---	---	128	127	127	130	129	129	115	111	113
31	---	---	---	---	---	---	129	128	129	115	109	112
MONTH	---	---	---	---	---	---	141	111	125	130	106	114

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	114	106	109	118	112	116	136	114	123	102	101	102
2	108	104	106	122	116	120	133	114	121	103	102	102
3	111	106	108	123	119	121	116	114	115	104	102	103
4	114	108	110	125	121	123	116	113	114	105	104	104
5	115	109	111	127	123	125	115	113	114	106	104	105
6	116	110	113	129	125	127	115	114	115	108	104	106
7	119	112	114	138	126	130	115	114	115	109	107	108
8	118	113	115	139	137	139	116	114	115	110	108	109
9	121	114	118	139	134	138	114	112	114	109	107	108
10	124	116	120	140	131	135	114	112	113	109	107	108
11	125	117	120	139	122	134	112	110	111	110	108	109
12	125	116	120	123	119	121	111	109	110	113	109	111
13	124	115	119	126	119	121	111	110	110	115	111	113
14	118	114	115	134	122	129	111	110	111	116	114	115
15	119	112	115	134	118	127	111	109	110	125	114	117
16	118	112	114	134	118	120	109	107	108	115	114	114
17	119	112	115	151	134	148	108	107	107	117	115	115
18	119	111	114	150	116	135	107	106	107	119	117	118
19	117	110	113	121	116	117	106	103	104	120	119	119
20	115	110	112	119	110	116	104	102	103	123	120	122
21	117	110	113	138	115	124	105	103	104	124	121	123
22	115	109	112	132	112	117	105	103	104	124	121	123
23	116	110	113	138	112	122	106	104	105	122	121	121
24	119	112	115	126	114	118	107	105	106	122	119	120
25	119	112	115	140	116	128	107	105	106	127	122	125
26	120	112	115	141	116	129	106	103	104	128	126	127
27	119	113	115	143	128	136	105	103	104	127	124	126
28	119	113	115	142	137	139	103	102	103	126	122	123
29	118	112	114	137	131	133	104	101	102	122	119	121
30	---	---	---	135	128	130	102	101	101	119	115	118
31	---	---	---	137	114	125	---	---	---	115	107	110
MONTH	125	104	114	151	110	127	136	101	109	128	101	114

02081022 ROANOKE RIVER NEAR OAK CITY, 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	112	108	109	125	114	119	127	122	126	122	102	112
2	118	112	116	126	114	120	125	118	122	---	---	---
3	117	115	115	124	113	118	121	115	119	---	---	---
4	118	116	117	123	113	116	122	114	118	---	---	---
5	118	115	116	128	123	126	119	113	117	---	---	---
6	116	113	115	128	124	127	118	104	110	---	---	---
7	151	113	117	129	118	122	114	108	110	91	88	89
8	157	116	125	132	118	125	117	107	111	---	---	---
9	159	120	126	121	117	118	119	115	117	106	104	105
10	120	115	117	139	121	132	121	114	117	108	98	103
11	115	112	113	137	133	135	123	113	118	107	95	101
12	113	110	111	134	131	132	125	113	119	102	93	95
13	113	109	111	135	123	131	123	109	114	100	93	97
14	114	111	113	138	123	131	125	115	122	98	94	96
15	117	113	115	138	125	131	124	116	118	109	95	101
16	118	115	116	139	127	135	116	107	111	105	99	102
17	119	116	117	141	127	131	120	112	116	103	100	101
18	122	119	120	143	133	140	129	120	125	118	103	115
19	139	117	128	133	130	132	129	127	128	117	102	112
20	117	114	115	137	130	134	131	126	128	105	99	102
21	121	113	116	137	119	133	129	122	129	106	98	102
22	121	112	114	134	117	124	128	122	125	105	100	102
23	126	111	115	138	115	126	123	112	120	105	99	102
24	123	111	114	134	118	125	121	107	110	107	102	104
25	122	112	114	138	131	136	128	121	127	108	103	104
26	120	109	113	132	113	121	---	---	---	112	107	109
27	119	109	113	117	111	114	133	122	129	110	106	108
28	119	111	113	118	112	114	127	114	120	106	101	104
29	119	110	113	120	112	116	132	111	121	107	103	105
30	124	111	117	123	113	118	128	113	118	113	107	110
31	---	---	---	126	114	118	119	103	111	---	---	---
MONTH	159	108	116	143	111	126	---	---	---	---	---	---

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	7.0	6.8	6.9	---	---	---	7.1	6.9	7.0	7.0	7.0	7.0
2	7.0	7.0	7.0	---	---	---	7.1	7.0	7.0	7.0	7.0	7.0
3	7.0	7.0	7.0	---	---	---	7.1	7.0	7.1	7.1	7.0	7.0
4	7.0	7.0	7.0	---	---	---	7.1	7.0	7.0	7.1	7.0	7.0
5	7.0	6.9	7.0	---	---	---	7.0	7.0	7.0	7.0	6.9	6.9
6	7.0	6.9	7.0	---	---	---	7.0	7.0	7.0	6.9	6.9	6.9
7	7.0	6.9	6.9	---	---	---	7.0	7.0	7.0	6.9	6.8	6.9
8	---	---	---	---	---	---	7.1	7.0	7.0	6.9	6.9	6.9
9	---	---	---	---	---	---	7.1	7.1	7.1	6.9	6.9	6.9
10	---	---	---	---	---	---	7.1	7.0	7.1	6.9	6.9	6.9
11	---	---	---	7.0	6.9	6.9	7.0	6.9	7.0	7.1	6.9	6.9
12	---	---	---	7.0	6.9	7.0	6.9	6.9	6.9	7.0	7.0	7.0
13	---	---	---	7.1	7.0	7.0	6.9	6.9	6.9	7.0	7.0	7.0
14	---	---	---	7.0	7.0	7.0	6.9	6.9	6.9	7.1	7.0	7.0
15	---	---	---	7.0	7.0	7.0	6.9	6.9	6.9	7.1	7.0	7.1
16	---	---	---	7.0	6.9	7.0	6.9	6.9	6.9	7.1	7.1	7.1
17	---	---	---	7.1	6.9	7.0	7.1	6.9	7.0	7.1	7.1	7.1
18	---	---	---	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
19	---	---	---	7.1	7.1	7.1	7.1	7.0	7.0	7.2	7.1	7.1
20	---	---	---	7.1	7.1	7.1	7.0	7.0	7.0	7.1	7.1	7.1
21	---	---	---	7.1	7.0	7.1	7.0	6.9	7.0	7.2	7.1	7.1
22	---	---	---	7.1	7.0	7.0	7.0	6.9	6.9	7.2	7.1	7.1
23	---	---	---	7.0	7.0	7.0	7.0	6.9	7.0	7.2	7.1	7.1
24	---	---	---	7.1	7.0	7.0	7.0	6.9	6.9	7.2	7.1	7.1
25	---	---	---	7.1	7.0	7.1	7.0	7.0	7.0	7.1	7.1	7.1
26	---	---	---	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.1
27	---	---	---	7.0	7.0	7.0	7.0	6.9	7.0	7.1	7.0	7.0
28	---	---	---	7.0	6.9	6.9	6.9	6.9	6.9	7.1	7.1	7.1
29	---	---	---	6.9	6.8	6.9	6.9	6.9	6.9	7.1	7.1	7.1
30	---	---	---	6.9	6.9	6.9	6.9	6.9	6.9	7.2	7.1	7.1
31	---	---	---	---	---	---	7.0	6.9	7.0	7.1	7.0	7.0
MONTH	---	---	---	---	---	---	7.1	6.9	7.0	7.2	6.8	7.0

02081022 ROANOKE RIVER NEAR OAK CITY, 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	7.0	6.9	7.0	7.3	7.2	7.3	7.3	7.2	7.2	7.4	7.4	7.4
2	6.9	6.9	6.9	7.3	7.2	7.3	7.3	7.2	7.3	7.4	7.4	7.4
3	7.0	6.9	7.0	7.3	7.3	7.3	7.4	7.3	7.3	7.4	7.3	7.4
4	7.0	7.0	7.0	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.2
5	7.0	7.0	7.0	7.3	7.2	7.2	7.4	7.3	7.3	7.2	7.1	7.2
6	7.1	7.0	7.0	7.2	7.1	7.2	7.3	7.3	7.3	7.1	7.1	7.1
7	7.1	7.0	7.1	7.1	7.1	7.1	7.4	7.3	7.3	7.2	7.1	7.1
8	7.2	7.1	7.1	7.1	7.0	7.1	7.4	7.3	7.4	7.2	7.2	7.2
9	7.2	7.2	7.2	7.1	7.0	7.1	7.4	7.3	7.4	7.3	7.2	7.2
10	7.3	7.2	7.2	7.1	7.0	7.1	7.4	7.3	7.3	7.3	7.2	7.2
11	7.3	7.2	7.2	7.2	7.1	7.2	7.4	7.3	7.3	7.3	7.2	7.2
12	7.3	7.2	7.3	7.3	7.0	7.2	7.4	7.3	7.4	7.2	7.1	7.2
13	7.3	7.2	7.3	7.2	7.1	7.2	7.5	7.4	7.4	7.2	7.1	7.2
14	7.3	7.2	7.3	7.2	7.1	7.1	7.4	7.4	7.4	7.2	7.1	7.1
15	7.3	7.2	7.2	7.3	7.1	7.2	7.4	7.3	7.4	7.2	7.1	7.1
16	7.3	7.2	7.3	7.2	7.0	7.1	7.3	7.3	7.3	7.3	7.1	7.2
17	7.3	7.2	7.3	7.2	7.0	7.1	7.3	7.3	7.3	7.3	7.2	7.3
18	7.3	7.2	7.3	7.3	7.1	7.2	7.3	7.2	7.3	7.3	7.2	7.3
19	7.3	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.3	7.2	7.2
20	7.2	7.2	7.2	7.3	7.2	7.2	7.2	7.2	7.2	7.3	7.2	7.2
21	7.3	7.2	7.2	7.2	7.1	7.2	7.3	7.2	7.2	7.2	7.1	7.2
22	7.3	7.2	7.3	7.2	7.2	7.2	7.3	7.2	7.3	7.2	7.1	7.2
23	7.3	7.3	7.3	7.2	7.1	7.2	7.3	7.3	7.3	7.2	7.1	7.2
24	7.3	7.3	7.3	7.2	7.1	7.2	7.3	7.3	7.3	7.2	7.1	7.1
25	7.3	7.3	7.3	7.3	7.1	7.2	7.3	7.3	7.3	7.2	7.1	7.1
26	7.4	7.2	7.3	7.2	7.1	7.2	7.3	7.3	7.3	7.2	7.1	7.1
27	7.3	7.3	7.3	7.1	7.1	7.1	7.3	7.3	7.3	7.2	7.1	7.2
28	7.3	7.2	7.3	7.1	7.1	7.1	7.3	7.3	7.3	7.2	7.1	7.2
29	7.3	7.3	7.3	7.1	7.1	7.1	7.3	7.3	7.3	7.2	7.1	7.1
30	---	---	---	7.1	7.0	7.1	7.4	7.3	7.3	7.1	7.0	7.1
31	---	---	---	7.3	7.1	7.2	---	---	---	7.1	7.0	7.0
MONTH	7.4	6.9	7.2	7.3	7.0	7.2	7.5	7.2	7.3	7.4	7.0	7.2

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

02081022 ROANOKE RIVER NEAR OAK CITY, 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	22.1	21.8	21.9	---	---	---	12.1	11.4	11.6	8.1	7.4	7.8
2	21.8	21.3	21.5	---	---	---	11.5	10.9	11.2	8.5	8.0	8.2
3	21.7	21.1	21.5	---	---	---	11.4	10.5	11.0	8.8	8.0	8.5
4	22.0	21.5	21.7	---	---	---	11.8	10.9	11.4	10.2	8.8	9.6
5	22.1	21.8	21.9	---	---	---	12.0	11.3	11.5	10.5	10.1	10.3
6	21.8	21.4	21.6	---	---	---	12.5	12.0	12.3	10.1	9.5	9.9
7	21.4	21.0	21.2	---	---	---	12.4	11.8	12.1	9.8	9.4	9.7
8	---	---	---	---	---	---	12.1	11.1	11.5	9.8	9.4	9.7
9	---	---	---	---	---	---	11.2	10.9	11.1	9.7	9.3	9.5
10	---	---	---	---	---	---	11.6	10.8	11.3	9.8	9.3	9.6
11	---	---	---	15.5	15.1	15.4	11.4	10.9	11.1	9.9	9.6	9.8
12	---	---	---	15.8	15.4	15.6	11.0	10.7	10.9	9.9	9.4	9.7
13	---	---	---	15.5	15.2	15.3	11.4	10.6	11.0	9.6	9.2	9.4
14	---	---	---	15.3	14.9	15.1	12.2	11.3	11.7	9.2	8.6	9.0
15	---	---	---	15.0	14.3	14.8	12.8	12.1	12.5	8.6	7.9	8.4
16	---	---	---	14.3	13.4	13.9	12.7	11.4	12.2	8.1	7.8	8.0
17	---	---	---	13.4	12.8	13.0	11.4	10.9	11.2	8.0	7.5	7.8
18	---	---	---	13.4	12.7	13.2	11.1	10.8	11.0	7.5	6.6	7.3
19	---	---	---	13.2	12.5	12.9	10.8	10.4	10.6	6.8	6.4	6.7
20	---	---	---	13.7	12.7	13.2	11.0	10.6	10.8	6.8	6.4	6.7
21	---	---	---	14.6	13.3	14.0	11.3	10.7	11.0	6.6	6.0	6.4
22	---	---	---	15.0	14.4	14.7	11.2	10.7	11.1	6.0	5.3	5.8
23	---	---	---	15.7	14.8	15.2	10.7	9.9	10.3	5.8	5.2	5.5
24	---	---	---	15.7	15.3	15.5	9.9	8.8	9.3	5.5	5.1	5.3
25	---	---	---	15.5	14.7	15.0	8.8	8.1	8.3	5.1	4.2	4.7
26	---	---	---	16.3	15.0	15.5	8.1	6.9	7.4	4.2	3.4	3.9
27	---	---	---	16.4	15.6	16.0	7.1	6.7	6.9	4.0	3.3	3.8
28	---	---	---	15.9	15.1	15.6	7.1	6.5	6.8	3.8	3.2	3.6
29	---	---	---	15.1	13.8	14.5	7.2	6.6	6.9	3.4	3.1	3.3
30	---	---	---	13.8	12.1	12.9	7.6	6.8	7.2	3.8	3.1	3.6
31	---	---	---	---	---	---	7.8	7.4	7.6	3.9	3.3	3.7
MONTH	---	---	---	---	---	---	12.8	6.5	10.3	10.5	3.1	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	3.3	3.4	10.7	9.7	10.2	14.5	13.3	14.0	16.3	15.5	15.8
2	3.7	3.3	3.5	10.7	9.9	10.2	14.6	13.8	14.1	16.7	16.2	16.3
3	3.8	3.3	3.6	10.6	9.9	10.2	14.4	13.9	14.2	16.9	16.4	16.6
4	4.1	3.5	3.8	10.5	9.8	10.0	15.2	14.4	15.0	17.3	16.7	17.0
5	4.3	3.8	4.0	10.5	9.5	10.0	15.1	14.6	14.9	17.6	17.2	17.4
6	4.5	4.1	4.3	11.0	10.1	10.6	14.9	14.2	14.5	18.4	17.6	18.1
7	4.8	4.2	4.5	12.3	10.6	11.4	15.0	14.5	14.8	19.7	18.3	19.1
8	5.2	4.5	4.8	13.1	11.6	12.4	15.6	14.9	15.3	20.0	19.4	19.6
9	5.1	4.7	4.8	13.8	12.7	13.3	15.4	14.9	15.2	21.1	19.6	20.6
10	5.3	4.6	4.9	15.5	13.4	14.3	15.4	14.9	15.2	21.6	20.9	21.3
11	5.6	4.9	5.3	15.4	14.2	14.9	15.3	14.9	15.1	21.8	21.1	21.4
12	5.7	4.9	5.3	14.6	13.8	14.2	15.6	15.1	15.4	22.5	21.6	22.0
13	5.2	4.8	4.9	14.7	13.7	14.1	15.5	14.6	15.1	23.2	22.0	22.6
14	5.3	4.8	5.0	14.3	13.1	13.9	14.7	14.2	14.6	24.0	22.6	23.3
15	5.9	5.3	5.6	13.6	12.5	13.1	14.7	14.2	14.5	23.6	22.7	23.1
16	6.1	5.7	5.9	14.3	13.2	13.8	15.0	14.7	14.9	23.0	22.4	22.7
17	6.4	5.9	6.1	15.1	13.8	14.4	15.6	14.9	15.2	23.1	22.2	22.6
18	6.8	6.0	6.3	14.3	12.9	13.3	16.1	15.6	15.9	23.4	22.1	22.7
19	6.5	6.0	6.3	12.9	12.5	12.7	15.8	14.7	15.3	24.0	22.4	23.1
20	7.2	6.5	6.9	12.8	12.4	12.6	16.0	14.6	15.3	24.9	23.8	24.3
21	7.3	6.7	7.0	12.7	12.1	12.4	16.1	15.8	15.9	25.0	24.2	24.5
22	7.2	6.6	6.8	12.2	11.6	11.9	16.3	15.5	15.8	24.4	23.7	24.0
23	7.4	6.5	6.9	12.0	11.4	11.7	16.6	15.8	16.2	23.9	22.7	23.2
24	7.8	6.9	7.4	12.6	11.6	12.1	16.4	16.0	16.3	24.3	23.0	23.6
25	8.7	7.5	8.1	13.5	12.2	12.9	16.4	15.8	16.1	25.0	24.1	24.6
26	9.5	8.3	8.9	15.1	13.5	14.3	15.9	15.3	15.6	25.1	23.8	24.5
27	9.8	9.0	9.2	15.9	14.4	15.1	15.8	15.1	15.5	25.4	24.8	25.1
28	10.3	9.1	9.6	16.0	14.6	15.3	15.1	14.7	14.8	25.2	24.3	24.7
29	10.2	9.3	9.7	15.5	14.6	15.0	15.3	15.0	15.2	24.4	22.2	23.0
30	---	---	---	15.1	14.3	14.8	15.7	15.1	15.4	22.2	20.7	21.3
31	---	---	---	14.6	13.5	14.0	---	---	---	20.7	19.9	20.3
MONTH	10.3	3.3	6.0	16.0	9.5	12.9	16.6	13.3	15.2	25.4	15.5	21.6

02081022 ROANOKE RIVER NEAR OAK CITY, 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	22.4	20.1	21.1	26.7	25.6	26.1	26.7	25.9	26.4	26.0	25.2	25.6
2	24.0	22.3	23.1	26.8	26.1	26.5	27.1	26.2	26.6	26.2	25.8	26.0
3	24.3	23.1	23.6	27.4	26.0	26.6	27.9	26.7	27.2	26.5	26.1	26.3
4	24.0	22.7	23.3	27.4	26.3	26.8	28.1	27.0	27.6	---	---	---
5	22.7	21.3	22.1	28.0	27.1	27.6	27.2	26.6	26.9	26.2	25.1	25.6
6	22.5	21.1	21.7	28.5	27.3	27.9	27.1	26.7	26.9	25.1	24.1	24.7
7	23.2	22.1	22.6	28.4	27.5	27.9	27.5	26.5	26.9	24.1	23.3	23.7
8	23.5	22.3	22.9	28.1	26.2	26.9	28.7	27.5	28.0	---	---	---
9	23.9	22.7	23.3	27.0	25.9	26.4	29.4	27.9	28.6	24.9	23.8	24.3
10	24.0	22.6	23.4	28.1	26.6	27.3	29.7	28.3	29.0	25.0	24.0	24.5
11	24.6	23.6	24.2	28.6	27.6	28.1	29.0	28.3	28.5	25.0	24.4	24.6
12	24.9	24.2	24.6	28.5	28.0	28.1	29.1	28.1	28.6	25.0	24.6	24.8
13	25.5	24.6	25.1	28.5	27.4	27.8	28.5	27.3	27.8	25.2	24.8	25.0
14	26.0	25.1	25.5	27.5	27.2	27.3	27.3	26.8	27.1	25.5	25.1	25.3
15	26.0	25.0	25.4	27.6	26.5	27.1	27.4	26.6	26.9	25.9	25.3	25.6
16	26.3	25.0	25.5	28.0	27.0	27.5	28.1	26.9	27.5	25.3	24.2	24.8
17	27.1	26.2	26.6	28.1	26.9	27.5	28.5	27.7	28.1	24.2	23.2	23.7
18	27.8	26.5	27.1	28.9	27.5	28.2	28.3	27.5	28.1	23.2	22.3	22.8
19	27.8	27.1	27.4	29.5	28.0	28.7	28.1	27.4	27.7	23.6	22.3	22.9
20	27.4	26.7	27.1	28.8	28.0	28.4	27.6	26.7	27.3	23.6	23.4	23.5
21	26.7	25.9	26.4	28.1	27.0	27.5	26.8	26.1	26.4	23.9	23.5	23.6
22	26.6	25.4	26.0	28.1	26.9	27.3	26.2	25.7	26.1	23.9	23.8	23.9
23	26.6	25.9	26.3	27.5	26.7	27.1	27.3	25.7	26.4	23.9	23.6	23.7
24	26.5	25.8	26.2	27.4	26.0	26.7	26.9	26.1	26.6	24.0	23.6	23.8
25	26.6	25.7	26.2	26.1	25.1	25.6	27.2	26.5	26.9	24.0	23.6	23.9
26	26.6	25.9	26.3	25.3	23.9	24.5	---	---	---	23.6	22.3	22.9
27	26.8	26.1	26.5	25.8	24.7	25.3	26.8	26.5	26.6	22.3	21.4	21.8
28	26.8	26.3	26.6	26.1	25.2	25.6	26.5	25.7	26.0	21.4	20.1	20.7
29	26.5	26.1	26.3	26.7	25.9	26.2	26.0	25.7	25.8	20.7	20.0	20.3
30	26.4	25.7	26.1	26.5	25.9	26.1	26.0	25.1	25.5	21.5	20.7	21.0
31	---	---	---	26.3	25.7	25.9	25.6	25.3	25.5	---	---	---
MONTH	27.8	20.1	25.0	29.5	23.9	27.0	---	---	---	---	---	---

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	5.9	4.8	5.3	---	---	---	9.9	9.4	9.7	11.4	11.1	11.2
2	6.4	5.9	6.2	---	---	---	10.0	9.6	9.8	11.4	11.1	11.2
3	6.7	6.3	6.5	---	---	---	10.1	9.7	9.9	11.4	11.1	11.2
4	7.8	6.6	7.3	---	---	---	10.0	9.7	9.9	11.2	10.7	11.0
5	7.8	7.6	7.7	---	---	---	10.0	9.7	9.9	10.9	10.4	10.6
6	7.8	7.5	7.7	---	---	---	9.9	9.5	9.7	10.7	10.3	10.5
7	7.9	7.6	7.8	---	---	---	9.6	9.3	9.5	10.7	10.4	10.6
8	---	---	---	---	---	---	9.6	9.2	9.5	10.8	10.4	10.6
9	---	---	---	---	---	---	9.8	9.5	9.7	10.8	10.4	10.6
10	---	---	---	---	---	---	9.9	9.6	9.8	10.8	10.5	10.7
11	---	---	---	8.2	8.0	8.1	9.8	9.6	9.7	10.6	10.0	10.3
12	---	---	---	8.2	8.0	8.1	9.9	9.6	9.7	10.1	10.0	10.0
13	---	---	---	8.3	8.1	8.2	9.7	9.5	9.6	10.3	10.0	10.2
14	---	---	---	8.3	7.9	8.2	9.8	9.5	9.6	10.6	10.2	10.4
15	---	---	---	8.3	8.1	8.2	9.6	9.3	9.4	10.8	10.4	10.6
16	---	---	---	8.5	8.2	8.3	9.5	9.3	9.4	11.0	10.7	10.9
17	---	---	---	8.8	8.4	8.6	9.8	9.4	9.6	11.1	10.8	10.9
18	---	---	---	9.0	8.6	8.8	10.0	9.6	9.8	11.2	10.8	11.0
19	---	---	---	9.2	8.9	9.0	9.9	9.7	9.8	11.4	11.1	11.3
20	---	---	---	9.3	9.0	9.1	10.0	9.7	9.8	11.3	11.1	11.2
21	---	---	---	9.1	8.8	8.9	9.8	9.5	9.7	11.4	11.1	11.2
22	---	---	---	8.9	8.6	8.8	9.7	9.5	9.6	11.5	11.2	11.4
23	---	---	---	8.7	8.4	8.5	10.0	9.6	9.8	11.8	11.4	11.6
24	---	---	---	8.8	8.4	8.6	10.4	10.0	10.2	11.9	11.6	11.7
25	---	---	---	8.9	8.7	8.8	10.7	10.3	10.5	11.8	11.7	11.7
26	---	---	---	8.8	8.4	8.6	11.0	10.7	10.8	11.9	11.7	11.8
27	---	---	---	8.6	8.2	8.4	11.1	10.9	11.0	12.2	11.7	11.9
28	---	---	---	8.3	8.1	8.2	11.3	10.9	11.1	12.5	12.1	12.3
29	---	---	---	8.5	8.1	8.3	11.1	10.9	11.0	12.6	12.4	12.5
30	---	---	---	9.5	8.4	9.1	11.1	10.9	11.0	12.7	12.3	12.5
31	---	---	---	---	---	---	11.3	10.9	11.1	12.5	12.3	12.4
MONTH	---	---	---	---	---	---	11.3	9.2	10.0	12.7	10.0	11.2

02081022 ROANOKE RIVER NEAR OAK CITY, 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	12.4	12.3	12.4	---	---	---	9.6	9.2	9.4	9.3	9.0	9.1
2	12.6	12.3	12.5	---	---	---	9.8	9.2	9.4	9.2	9.0	9.1
3	12.6	12.4	12.5	---	---	---	9.7	9.5	9.6	9.2	8.9	9.0
4	12.7	12.4	12.5	---	---	---	9.6	9.1	9.4	9.0	8.4	8.6
5	12.6	12.4	12.5	---	---	---	9.4	9.1	9.2	8.6	8.0	8.3
6	12.7	12.4	12.6	---	---	---	9.3	9.2	9.3	8.2	7.8	8.0
7	12.8	12.5	12.6	---	---	---	9.5	9.2	9.4	8.5	7.8	8.1
8	12.7	12.2	12.5	---	---	---	9.6	9.2	9.4	8.6	7.9	8.1
9	12.4	12.2	12.3	---	---	---	9.4	9.2	9.2	8.4	7.8	8.1
10	12.4	12.2	12.3	---	---	---	9.2	9.0	9.1	8.2	7.6	7.9
11	12.3	12.1	12.2	---	---	---	9.2	9.0	9.1	7.9	7.3	7.6
12	12.4	12.0	12.2	---	---	---	9.3	8.9	9.0	7.7	7.0	7.3
13	12.3	12.0	12.2	---	---	---	9.1	8.8	8.9	7.6	6.7	7.1
14	12.4	12.1	12.3	---	---	---	9.0	8.8	8.9	7.3	6.3	6.9
15	12.2	12.0	12.1	---	---	---	8.9	8.5	8.7	7.2	6.4	6.7
16	12.2	12.0	12.1	---	---	---	8.6	8.3	8.5	7.4	6.5	7.0
17	12.2	12.0	12.1	9.9	9.4	9.7	8.4	8.3	8.3	7.4	6.8	7.1
18	12.1	11.8	12.0	10.8	9.7	10.1	8.6	8.2	8.4	7.4	6.8	7.1
19	12.0	11.6	11.9	11.1	10.8	10.9	8.4	8.1	8.2	7.4	6.8	7.1
20	11.7	11.5	11.6	10.9	9.9	10.4	8.3	8.0	8.1	7.1	6.6	6.8
21	11.8	11.4	11.6	10.2	9.7	9.9	8.2	8.0	8.1	7.0	6.3	6.6
22	11.9	11.6	11.8	10.1	9.7	10.0	8.3	8.0	8.1	6.8	6.3	6.5
23	11.9	11.7	11.8	10.5	9.7	10.0	8.1	7.8	8.0	6.8	6.3	6.6
24	11.8	11.5	11.7	10.5	9.9	10.1	8.2	7.9	8.0	6.7	6.3	6.5
25	11.7	11.4	11.5	10.5	9.6	10.0	8.2	7.9	8.0	6.7	6.1	6.3
26	---	---	---	10.0	9.0	9.4	8.8	8.1	8.3	6.8	6.3	6.5
27	---	---	---	9.2	8.6	9.0	9.2	8.6	8.8	6.7	6.2	6.4
28	---	---	---	8.8	8.5	8.7	9.1	8.9	9.0	6.8	6.2	6.5
29	---	---	---	8.9	8.6	8.8	9.4	8.9	9.1	6.9	6.4	6.6
30	---	---	---	9.0	8.4	8.7	9.2	9.0	9.1	6.8	6.5	6.6
31	---	---	---	9.7	8.8	9.3	---	---	---	6.6	6.4	6.5
MONTH	---	---	---	---	---	---	9.8	7.8	8.8	9.3	6.1	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	6.6	6.7	6.4	6.2	6.3	6.1	5.7	5.9	---	---	---
2	6.7	6.3	6.5	6.7	6.2	6.5	6.0	5.7	5.9	---	---	---
3	7.0	6.3	6.7	6.6	6.2	6.4	6.1	5.6	5.8	---	---	---
4	7.1	6.6	6.8	6.4	6.1	6.3	6.1	5.7	5.9	---	---	---
5	7.1	6.6	6.8	6.3	6.0	6.1	6.2	5.7	5.9	---	---	---
6	6.8	6.6	6.7	6.3	5.9	6.1	5.9	5.5	5.7	---	---	---
7	6.8	6.6	6.7	6.3	5.9	6.2	5.6	5.3	5.4	5.4	4.4	5.0
8	7.2	6.6	6.9	6.3	5.9	6.1	5.7	5.3	5.5	---	---	---
9	7.4	6.9	7.1	6.6	6.1	6.3	6.1	5.3	5.7	6.1	5.8	5.9
10	7.4	6.9	7.1	6.2	5.6	5.9	6.1	5.7	5.9	6.3	5.8	6.0
11	7.4	6.9	7.2	5.8	5.5	5.7	6.0	5.7	5.9	6.6	6.2	6.4
12	7.4	6.9	7.1	6.0	5.5	5.7	6.4	5.9	6.1	6.5	6.2	6.4
13	7.2	6.6	7.0	6.1	5.4	5.7	6.4	6.1	6.3	6.6	5.8	6.3
14	7.0	6.5	6.7	6.2	5.4	5.8	6.4	6.2	6.3	6.0	5.6	5.8
15	6.8	6.3	6.6	6.0	5.4	5.7	6.6	6.1	6.3	6.0	5.1	5.6
16	6.7	6.2	6.4	5.9	5.1	5.5	6.2	5.7	5.9	5.2	4.6	4.8
17	6.6	6.1	6.3	6.2	5.4	5.9	6.0	5.8	5.9	6.2	4.7	5.4
18	6.2	5.9	6.0	5.7	5.4	5.6	5.9	5.4	5.7	6.6	6.1	6.2
19	6.2	5.7	6.0	5.9	5.6	5.7	5.8	5.6	5.7	7.0	6.4	6.7
20	6.5	6.0	6.3	6.1	5.8	5.9	5.8	5.3	5.6	6.5	6.1	6.3
21	6.5	5.9	6.2	5.9	5.4	5.6	5.8	5.5	5.7	6.6	6.0	6.3
22	6.6	5.9	6.3	5.9	5.5	5.7	5.9	5.7	5.8	6.4	5.7	6.1
23	6.7	6.1	6.4	5.8	5.5	5.7	5.8	5.2	5.5	6.7	5.4	6.0
24	6.7	6.4	6.6	5.8	5.6	5.7	5.8	5.2	5.4	5.7	5.2	5.4
25	6.7	6.3	6.6	6.1	5.7	5.8	5.4	5.0	5.2	5.7	4.7	5.2
26	6.6	6.3	6.5	6.1	5.4	5.7	---	---	---	6.3	5.7	6.1
27	6.5	6.3	6.4	5.5	5.3	5.4	---	---	---	5.8	5.4	5.5
28	6.7	6.4	6.5	5.8	5.4	5.6	---	---	---	5.9	5.5	5.7
29	6.7	6.4	6.6	5.8	5.5	5.7	---	---	---	6.4	5.6	6.0
30	6.5	6.2	6.4	5.9	5.4	5.7	---	---	---	6.8	6.3	6.5
31	---	---	---	5.9	5.7	5.8	---	---	---	---	---	---
MONTH	7.4	5.7	6.6	6.7	5.1	5.9	---	---	---	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

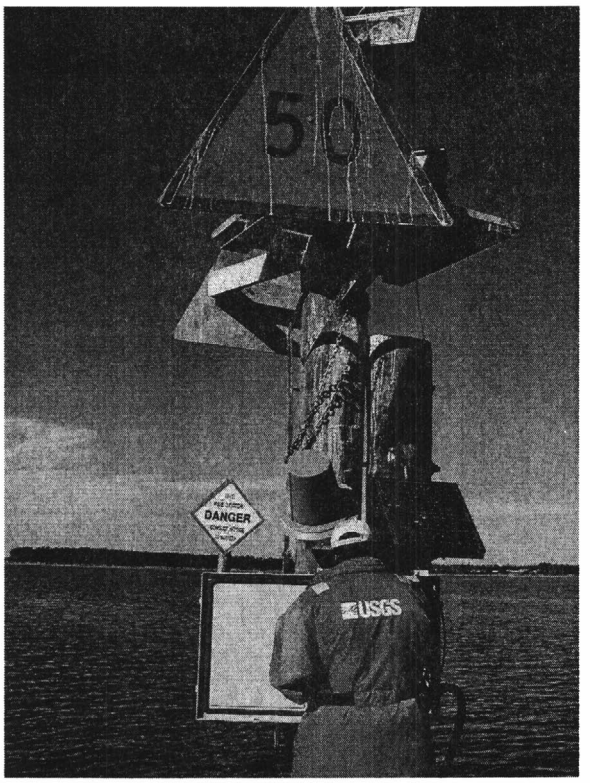
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	66	54	59	---	---	---	89	86	87	97	92	95
2	72	66	69	---	---	---	90	86	88	97	94	95
3	75	70	72	---	---	---	90	87	88	99	96	97
4	88	74	82	---	---	---	91	87	89	98	95	97
5	88	86	87	---	---	---	90	87	89	98	94	96
6	87	84	87	---	---	---	90	88	89	95	92	94
7	88	84	86	---	---	---	88	84	86	96	91	94
8	---	---	---	---	---	---	87	83	85	96	93	95
9	---	---	---	---	---	---	87	85	86	96	92	94
10	---	---	---	---	---	---	89	85	88	97	93	95
11	---	---	---	82	79	80	88	85	87	95	90	92
12	---	---	---	81	80	81	88	85	87	90	88	90
13	---	---	---	82	79	81	87	85	86	92	88	90
14	---	---	---	82	78	81	88	85	87	92	89	91
15	---	---	---	81	79	80	88	85	86	92	89	91
16	---	---	---	81	79	80	86	84	85	93	91	92
17	---	---	---	83	79	81	88	84	86	94	91	92
18	---	---	---	85	81	83	90	85	88	93	90	91
19	---	---	---	87	82	85	88	85	87	93	91	92
20	---	---	---	88	84	86	89	86	87	92	90	91
21	---	---	---	87	84	85	88	85	87	93	90	91
22	---	---	---	87	84	85	87	85	86	92	89	91
23	---	---	---	84	82	83	88	86	87	93	90	91
24	---	---	---	86	83	84	90	87	88	93	91	91
25	---	---	---	87	84	86	90	88	88	91	88	90
26	---	---	---	86	84	85	91	89	90	90	88	89
27	---	---	---	85	80	83	91	89	90	91	88	89
28	---	---	---	82	78	80	92	90	91	92	90	91
29	---	---	---	81	78	79	92	90	91	93	91	92
30	---	---	---	88	79	85	93	90	91	94	92	92
31	---	---	---	---	---	---	95	91	93	94	91	92
MONTH	---	---	---	---	---	---	95	83	88	99	88	92

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	92	90	91	---	---	---	92	90	91	95	91	93
2	93	90	91	---	---	---	96	89	92	95	92	93
3	94	91	92	---	---	---	94	91	93	94	91	93
4	94	92	93	---	---	---	94	91	93	94	88	90
5	94	92	93	---	---	---	93	90	92	90	85	88
6	94	92	93	---	---	---	92	90	91	88	83	86
7	96	92	94	---	---	---	94	91	92	91	83	87
8	96	93	94	---	---	---	95	91	93	94	86	89
9	95	93	93	---	---	---	94	91	92	93	87	90
10	95	92	94	---	---	---	92	89	91	93	86	89
11	95	93	94	---	---	---	92	89	91	90	83	86
12	96	92	94	---	---	---	93	89	90	88	80	84
13	94	92	93	---	---	---	91	86	89	88	78	83
14	94	93	94	---	---	---	89	86	87	86	75	81
15	95	93	94	---	---	---	87	84	85	85	75	78
16	96	94	95	---	---	---	86	83	84	88	75	81
17	97	94	95	96	92	93	84	83	84	88	80	83
18	96	93	95	102	92	96	88	82	85	87	78	82
19	95	93	94	103	101	102	84	80	82	88	78	83
20	94	92	93	102	92	97	84	80	81	85	79	82
21	95	92	94	95	89	92	84	82	83	85	77	79
22	96	93	95	93	89	92	84	81	82	82	75	78
23	97	93	95	96	89	92	82	80	81	81	74	77
24	97	94	95	96	90	93	83	80	81	79	74	76
25	97	94	95	99	89	94	84	81	82	81	73	75
26	---	---	---	95	88	91	90	82	84	82	75	78
27	---	---	---	92	85	89	92	88	89	82	76	79
28	---	---	---	90	84	86	91	88	89	82	75	79
29	---	---	---	88	84	86	94	90	91	82	75	77
30	---	---	---	88	82	85	94	90	92	77	72	74
31	---	---	---	95	84	90	---	---	---	74	71	73
MONTH	---	---	---	---	---	---	96	80	88	95	71	83

02081022 ROANOKE RIVER NEAR OAK CITY, 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	80	74	76	80	76	78	76	71	74	---	---	---
2	80	74	77	84	78	82	76	72	74	---	---	---
3	84	74	79	82	77	80	77	70	74	---	---	---
4	85	77	80	82	77	80	78	72	75	---	---	---
5	82	76	79	80	77	78	78	72	75	---	---	---
6	79	75	77	80	75	78	74	70	72	---	---	---
7	80	76	78	80	76	79	70	67	68	64	52	59
8	86	77	81	80	75	78	74	67	70	---	---	---
9	88	80	83	83	76	79	79	68	74	72	69	71
10	88	80	84	78	71	74	79	75	77	76	70	71
11	90	83	86	75	71	73	79	74	77	80	75	77
12	89	83	86	76	71	74	84	75	79	78	76	78
13	88	81	84	77	69	72	83	78	80	80	70	75
14	86	80	83	78	70	73	81	78	80	74	69	71
15	85	77	81	77	68	72	84	78	80	74	62	69
16	82	76	79	75	64	70	78	73	75	63	56	59
17	83	76	80	79	69	75	77	75	76	73	57	65
18	80	74	77	74	69	72	75	70	73	76	71	73
19	79	73	76	77	72	75	74	71	73	82	76	78
20	82	76	79	79	75	76	73	67	71	78	74	76
21	81	73	77	75	69	71	73	69	72	79	72	75
22	82	73	78	75	69	72	73	70	72	76	68	73
23	83	77	81	74	71	72	72	66	69	79	65	71
24	83	79	81	72	70	71	73	65	67	68	63	65
25	83	79	81	74	70	72	68	62	66	68	57	62
26	84	80	82	74	65	69	---	---	---	75	67	72
27	83	80	81	70	65	67	---	---	---	68	63	64
28	83	80	81	71	67	69	---	---	---	67	63	64
29	85	80	83	74	68	71	---	---	---	73	63	69
30	82	77	79	72	67	71	---	---	---	78	72	75
31	---	---	---	74	71	72	---	---	---	---	---	---
MONTH	90	73	80	84	64	74	---	---	---	---	---	---



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

02081028 ROANOKE RIVER AT HAMILTON, NC

LOCATION.--Lat 35°55'50", long 77°12'10", Martin County, Hydrologic Unit 03010107, on downstream side of public boat ramp, 0.5 mi east of Hamilton.

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

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

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

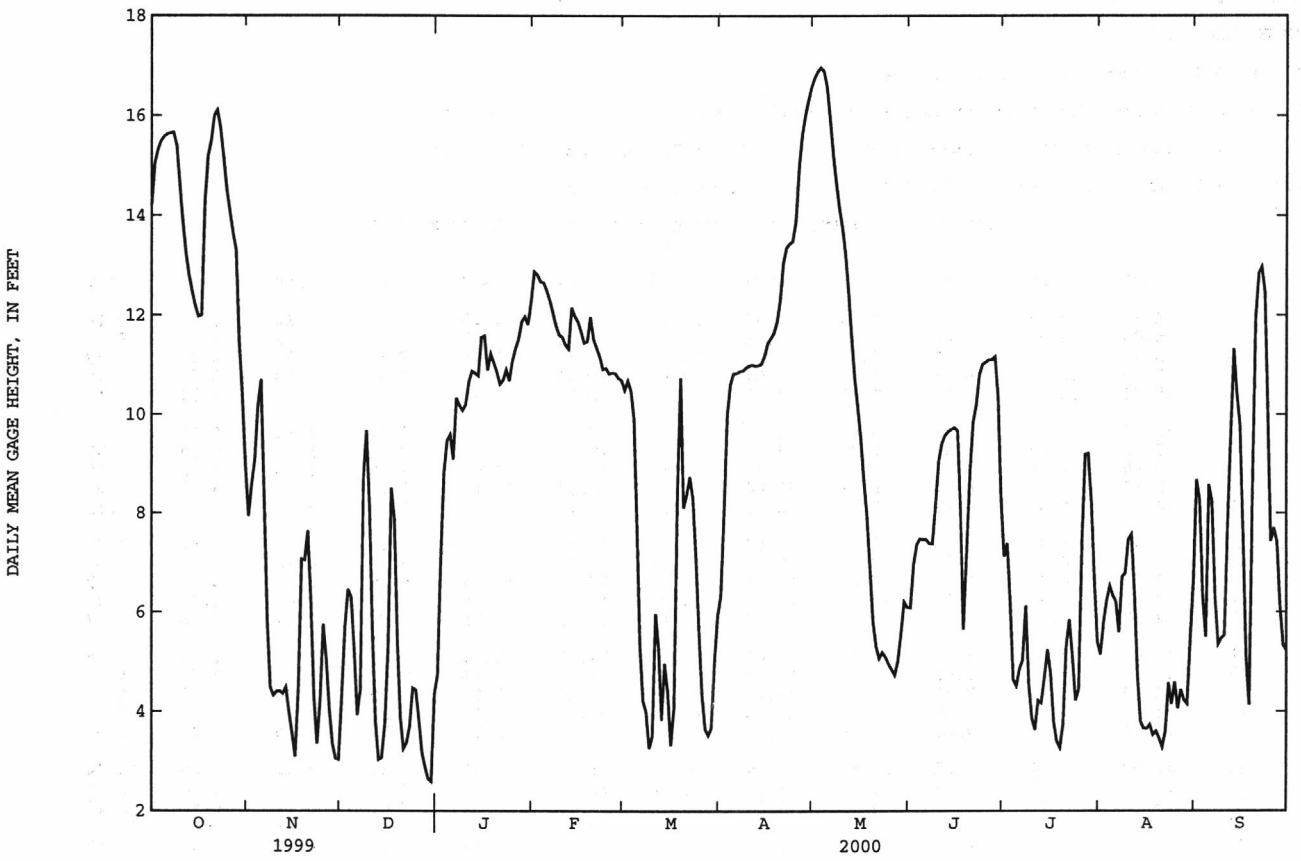
EXTREMES FOR PERIOD OF RECORD.--Maximum, 18.17 ft, Sept. 19, 1999; minimum 1.67 ft, Oct. 24, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum, 16.98 ft, May 3; minimum, 2.54 ft, Dec. 30.

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	14.21	7.94	4.31	4.74	12.87	10.49	6.33	16.75	6.09	7.12	5.14	8.68
2	15.04	8.58	5.68	7.10	12.81	10.68	7.95	16.88	6.97	7.39	5.80	8.27
3	15.32	9.07	6.46	8.82	12.67	10.48	9.97	16.96	7.37	6.17	6.24	6.34
4	15.49	10.17	6.31	9.47	12.65	9.93	10.61	16.89	7.48	4.64	6.53	5.50
5	15.58	10.70	5.23	9.59	12.49	7.75	10.82	16.58	7.47	4.51	6.34	8.58
6	15.63	8.33	3.93	9.09	12.30	5.32	10.83	15.93	7.47	4.85	6.21	8.24
7	15.65	5.85	4.42	10.33	12.04	4.22	10.87	15.25	7.39	5.03	5.59	6.32
8	15.66	4.48	8.73	10.18	11.78	3.99	10.88	14.66	7.38	6.13	6.71	5.35
9	15.40	4.32	9.67	10.08	11.60	3.26	10.94	14.16	8.19	4.54	6.79	5.47
10	14.60	4.40	8.13	10.20	11.56	3.51	10.98	13.76	9.07	3.86	7.47	5.53
11	13.83	4.41	5.54	10.66	11.40	5.97	11.00	13.25	9.42	3.63	7.57	7.70
12	13.22	4.36	3.78	10.87	11.32	5.27	10.98	12.50	9.58	4.22	6.38	9.53
13	12.78	4.49	3.03	10.83	12.15	3.83	10.99	11.60	9.65	4.17	4.75	11.32
14	12.46	3.99	3.07	10.78	11.98	4.97	11.02	10.75	9.70	4.67	3.80	10.41
15	12.18	3.56	3.75	11.55	11.87	4.40	11.18	10.16	9.73	5.24	3.66	9.78
16	11.97	3.09	5.27	11.58	11.67	3.32	11.43	9.53	9.67	4.76	3.65	7.64
17	12.00	4.48	8.51	10.89	11.44	4.06	11.53	8.69	8.03	3.79	3.73	5.11
18	14.29	7.07	7.88	11.22	11.47	8.29	11.64	7.97	5.65	3.40	3.53	4.13
19	15.20	7.05	5.43	11.04	11.96	10.74	11.87	6.93	7.19	3.27	3.60	8.30
20	15.50	7.64	3.88	10.85	11.52	8.11	12.30	5.83	8.76	3.74	3.46	11.95
21	16.00	6.21	3.25	10.61	11.34	8.37	13.05	5.32	9.82	5.31	3.28	12.84
22	16.11	4.31	3.37	10.69	11.16	8.74	13.35	5.07	10.19	5.85	3.60	12.97
23	15.74	3.35	3.70	10.90	10.91	8.30	13.43	5.19	10.80	5.09	4.57	12.46
24	15.18	4.20	4.47	10.68	10.93	7.06	13.48	5.10	11.01	4.22	4.15	10.07
25	14.51	5.76	4.43	11.07	10.82	5.59	13.89	4.96	11.05	4.44	4.59	7.44
26	14.07	5.05	3.84	11.32	10.84	4.34	14.96	4.85	11.10	7.46	4.06	7.70
27	13.65	4.04	3.19	11.51	10.83	3.65	15.62	4.73	11.10	9.19	4.44	7.43
28	13.30	3.35	2.89	11.87	10.73	3.52	16.01	5.01	11.16	9.21	4.23	6.12
29	11.46	3.06	2.65	11.97	10.69	3.67	16.32	5.56	10.34	8.22	4.15	5.33
30	10.39	3.03	2.59	11.81	---	4.99	16.57	6.21	8.30	6.64	5.47	5.22
31	9.01	---	4.35	12.27	---	5.93	---	6.10	---	5.40	6.65	---
MEAN	14.05	5.54	4.89	10.47	11.65	6.22	12.03	10.10	8.90	5.36	5.04	8.06
MAX	16.11	10.70	9.67	12.27	12.87	10.74	16.57	16.96	11.16	9.21	7.57	12.97
MIN	9.01	3.03	2.59	4.74	10.69	3.26	6.33	4.73	5.65	3.27	3.28	4.13

02081028 ROANOKE RIVER AT HAMILTON, NC--Continued



355812077082301 BROADNECK TRANSECT (SITE #1)

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

DRAINAGE AREA.--Indeterminate.

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

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

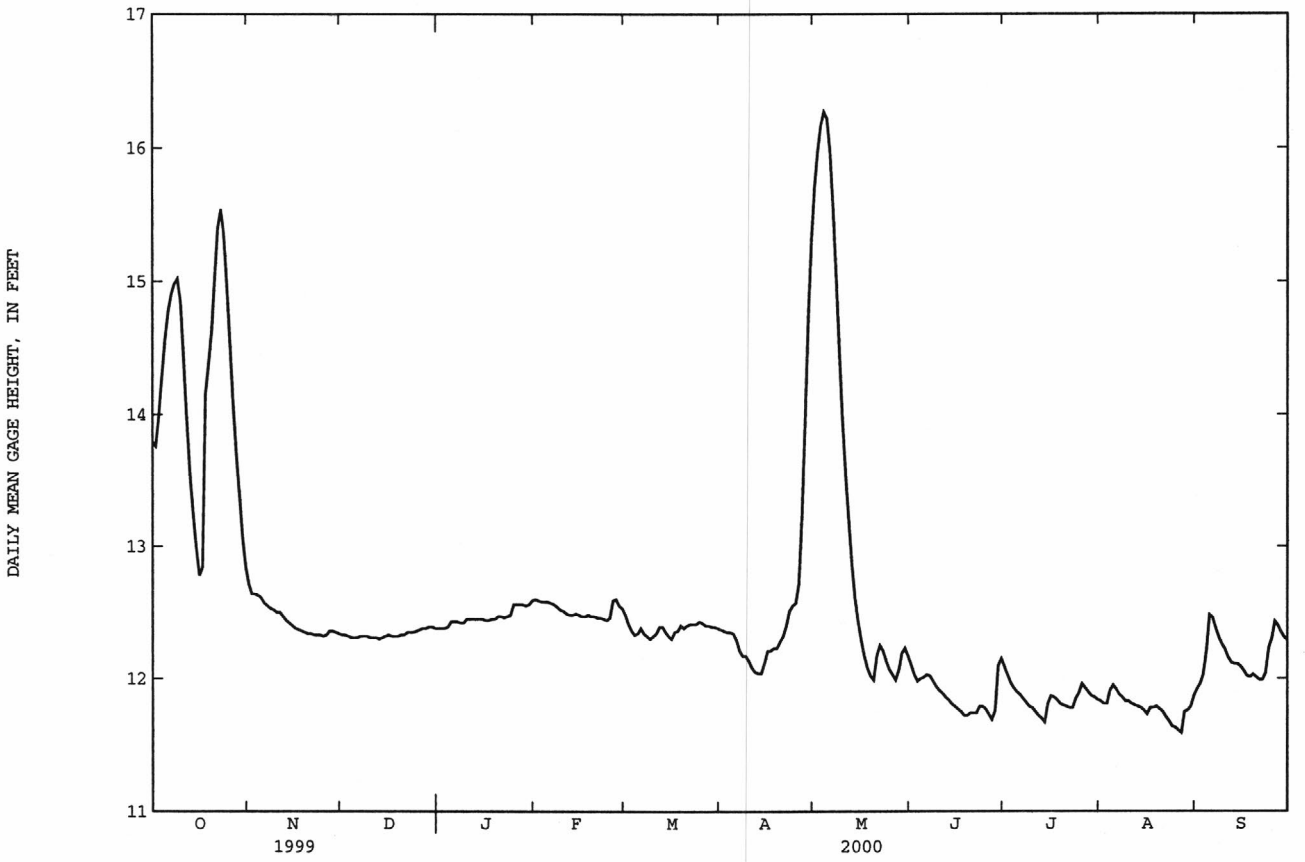
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 18.60 ft, Sept. 19, 1999; minimum recorded gage height, 11.05 ft, Aug. 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 16.28 ft, May 4,; minimum recorded gage height, 11.54 ft, Aug. 27.

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	13.79	12.71	12.33	12.38	12.60	12.48	12.37	15.71	12.10	12.09	11.83	11.92
2	13.76	12.64	12.33	12.38	12.59	12.41	12.36	15.98	12.03	12.03	11.81	11.96
3	13.99	12.64	12.32	12.38	12.58	12.36	12.35	16.17	11.98	11.97	11.81	12.03
4	14.29	12.63	12.31	12.39	12.58	12.33	12.35	16.27	12.00	11.93	11.91	12.21
5	14.57	12.61	12.31	12.43	12.58	12.34	12.34	16.22	12.01	11.90	11.95	12.48
6	14.77	12.57	12.31	12.43	12.57	12.38	12.29	15.97	12.03	11.88	11.92	12.46
7	14.90	12.55	12.32	12.43	12.56	12.34	12.21	15.53	12.02	11.85	11.88	12.38
8	14.98	12.53	12.32	12.42	12.54	12.32	12.17	15.01	11.98	11.82	11.86	12.31
9	15.02	12.52	12.32	12.42	12.52	12.30	12.17	14.46	11.94	11.79	11.83	12.26
10	14.85	12.50	12.31	12.45	12.51	12.32	12.13	13.95	11.91	11.78	11.83	12.22
11	14.42	12.50	12.31	12.45	12.49	12.34	12.08	13.54	11.89	11.75	11.81	12.16
12	13.95	12.47	12.31	12.45	12.48	12.39	12.05	13.19	11.86	11.72	11.80	12.12
13	13.54	12.44	12.30	12.45	12.48	12.39	12.04	12.87	11.84	11.70	11.79	12.11
14	13.25	12.42	12.31	12.45	12.49	12.35	12.04	12.61	11.81	11.67	11.78	12.11
15	12.99	12.40	12.32	12.45	12.48	12.32	12.12	12.43	11.79	11.81	11.76	12.09
16	12.78	12.38	12.33	12.44	12.47	12.30	12.21	12.29	11.77	11.87	11.73	12.06
17	12.84	12.37	12.32	12.44	12.47	12.35	12.21	12.17	11.75	11.86	11.78	12.02
18	14.15	12.36	12.32	12.45	12.48	12.36	12.23	12.08	11.72	11.84	11.78	12.01
19	14.38	12.35	12.32	12.45	12.47	12.40	12.23	12.02	11.72	11.81	11.79	12.03
20	14.63	12.34	12.33	12.47	12.47	12.38	12.28	11.99	11.74	11.80	11.77	12.01
21	15.03	12.34	12.33	12.47	12.46	12.40	12.32	12.17	11.74	11.79	11.75	11.99
22	15.40	12.33	12.35	12.46	12.46	12.41	12.40	12.25	11.74	11.78	11.71	11.99
23	15.54	12.33	12.35	12.47	12.45	12.41	12.51	12.21	11.79	11.78	11.68	12.04
24	15.35	12.33	12.35	12.48	12.44	12.41	12.55	12.13	11.79	11.85	11.64	12.23
25	14.96	12.32	12.36	12.56	12.46	12.43	12.57	12.07	11.77	11.89	11.63	12.30
26	14.51	12.33	12.37	12.56	12.59	12.42	12.72	12.03	11.73	11.96	11.61	12.43
27	14.06	12.36	12.38	12.56	12.60	12.40	13.25	11.99	11.69	11.93	11.59	12.40
28	13.68	12.36	12.38	12.56	12.55	12.40	13.96	12.06	11.76	11.90	11.75	12.35
29	13.38	12.35	12.39	12.55	12.53	12.39	14.73	12.19	12.10	11.87	11.76	12.31
30	13.06	12.34	12.39	12.56	---	12.39	15.31	12.23	12.15	11.86	11.79	12.29
31	12.84	---	12.38	12.59	---	12.38	---	12.17	---	11.84	11.87	---
MEAN	14.18	12.44	12.33	12.47	12.52	12.37	12.55	13.35	11.87	11.85	11.78	12.18
MAX	15.54	12.71	12.39	12.59	12.60	12.48	15.31	16.27	12.15	12.09	11.95	12.48
MIN	12.78	12.32	12.30	12.38	12.44	12.30	12.04	11.99	11.69	11.67	11.59	11.92

355812077082301 BROADNECK TRANSECT (SITE #1)--Continued



355722077082801 BROADNECK TRANSECT (SITE #2)

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

DRAINAGE AREA.--Indeterminate.

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

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

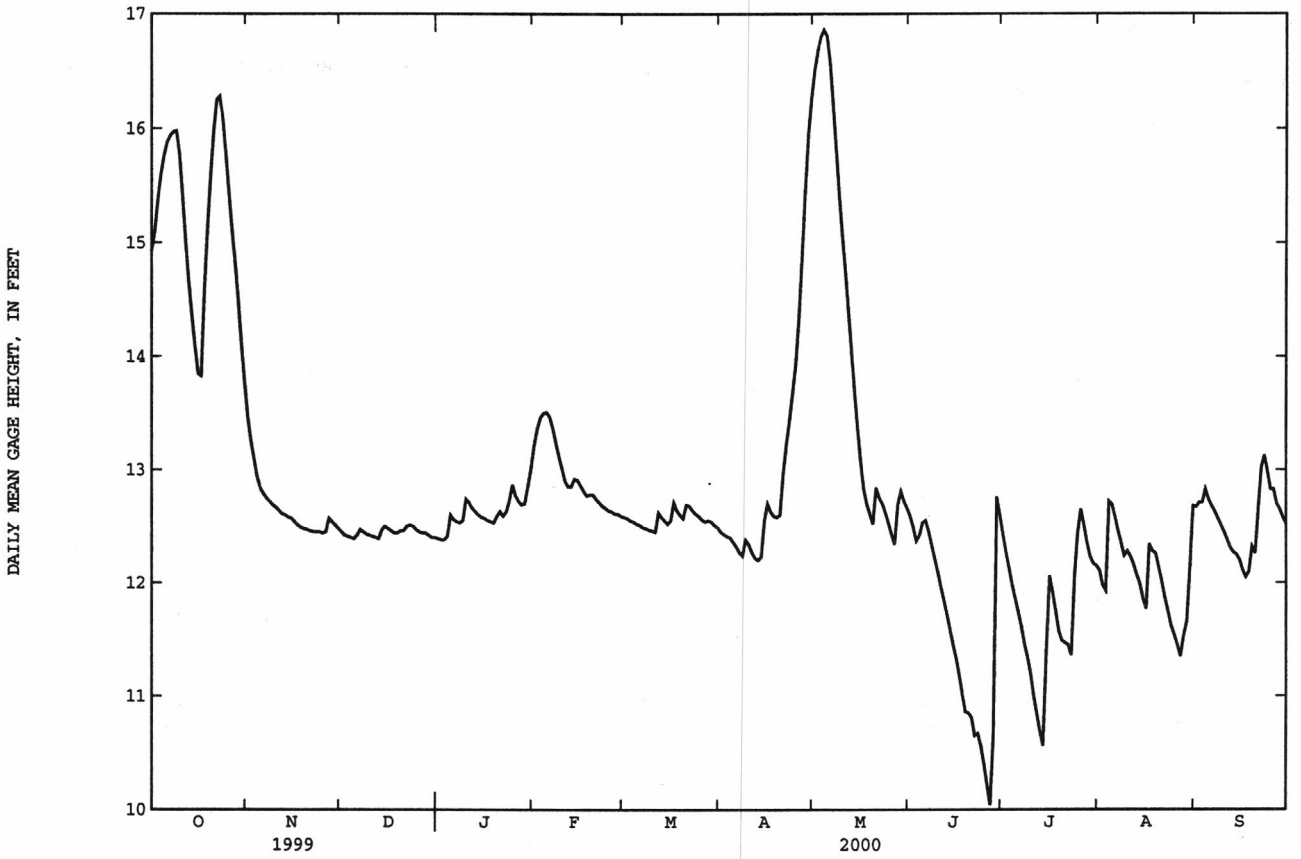
EXTREMES FOR PERIOD OF RECORD.--Maximum, 18.84 ft, Sept. 19, 1999; minimum recorded, 7.79 ft, Oct. 25, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 16.87 ft, May 4; minimum, 9.91 ft, June 28.

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	14.93	13.47	12.45	12.39	13.21	12.58	12.45	16.51	12.59	12.43	12.11	12.67
2	15.10	13.26	12.42	12.38	13.36	12.57	12.43	16.68	12.49	12.27	11.98	12.71
3	15.38	13.10	12.41	12.38	13.46	12.55	12.41	16.80	12.37	12.13	11.93	12.71
4	15.61	12.94	12.40	12.41	13.50	12.54	12.40	16.86	12.42	11.98	12.72	12.83
5	15.77	12.84	12.39	12.60	13.51	12.52	12.36	16.81	12.53	11.86	12.69	12.74
6	15.88	12.79	12.42	12.56	13.47	12.51	12.32	16.58	12.55	11.74	12.58	12.68
7	15.94	12.75	12.47	12.54	13.37	12.49	12.27	16.21	12.45	11.61	12.46	12.63
8	15.97	12.72	12.45	12.53	13.24	12.48	12.24	15.81	12.33	11.46	12.35	12.57
9	15.98	12.69	12.43	12.55	13.12	12.47	12.38	15.41	12.21	11.34	12.24	12.51
10	15.77	12.67	12.42	12.74	13.01	12.46	12.34	15.06	12.09	11.20	12.28	12.45
11	15.39	12.64	12.41	12.71	12.90	12.45	12.27	14.75	11.96	11.00	12.23	12.38
12	15.00	12.61	12.40	12.66	12.85	12.62	12.22	14.40	11.84	10.84	12.16	12.31
13	14.65	12.60	12.39	12.63	12.85	12.58	12.20	14.05	11.72	10.69	12.07	12.27
14	14.36	12.58	12.47	12.60	12.92	12.55	12.23	13.69	11.58	10.56	11.99	12.25
15	14.09	12.57	12.50	12.58	12.91	12.52	12.55	13.36	11.45	11.39	11.86	12.20
16	13.85	12.54	12.48	12.57	12.86	12.55	12.70	13.07	11.33	12.06	11.77	12.11
17	13.83	12.51	12.46	12.55	12.81	12.71	12.63	12.83	11.18	11.92	12.34	12.05
18	14.57	12.49	12.44	12.54	12.77	12.64	12.59	12.70	11.01	11.75	12.28	12.10
19	15.13	12.48	12.44	12.53	12.78	12.60	12.58	12.61	10.86	11.57	12.26	12.32
20	15.59	12.47	12.46	12.59	12.78	12.57	12.60	12.52	10.85	11.49	12.14	12.26
21	15.98	12.46	12.46	12.63	12.74	12.69	12.96	12.84	10.81	11.47	12.01	12.66
22	16.25	12.45	12.50	12.59	12.71	12.68	13.22	12.75	10.65	11.45	11.87	13.02
23	16.28	12.45	12.51	12.63	12.68	12.64	13.44	12.70	10.67	11.36	11.75	13.13
24	16.09	12.45	12.50	12.73	12.66	12.61	13.68	12.62	10.56	12.06	11.62	12.99
25	15.77	12.44	12.47	12.87	12.64	12.59	13.94	12.53	10.40	12.44	11.54	12.83
26	15.43	12.45	12.45	12.77	12.63	12.56	14.35	12.43	10.22	12.65	11.45	12.83
27	15.10	12.57	12.44	12.72	12.61	12.54	14.89	12.34	10.04	12.51	11.35	12.70
28	14.82	12.54	12.44	12.69	12.61	12.55	15.47	12.69	10.64	12.35	11.53	12.65
29	14.49	12.51	12.42	12.70	12.59	12.54	15.95	12.81	12.76	12.23	11.66	12.58
30	14.11	12.48	12.40	12.85	---	12.51	16.27	12.72	12.60	12.17	12.14	12.52
31	13.77	---	12.40	13.01	---	12.49	---	12.66	---	12.15	12.68	---
MEAN	15.19	12.65	12.44	12.62	12.95	12.56	13.08	14.06	11.57	11.75	12.07	12.56
MAX	16.28	13.47	12.51	13.01	13.51	12.71	16.27	16.86	12.76	12.65	12.72	13.13
MIN	13.77	12.44	12.39	12.38	12.59	12.45	12.20	12.34	10.04	10.56	11.35	12.05

355722077082801 BROADNECK TRANSECT (SITE #2)--Continued



355540077083401 BROADNECK TRANSECT (SITE #3)

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

DRAINAGE AREA.--Indeterminate.

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

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

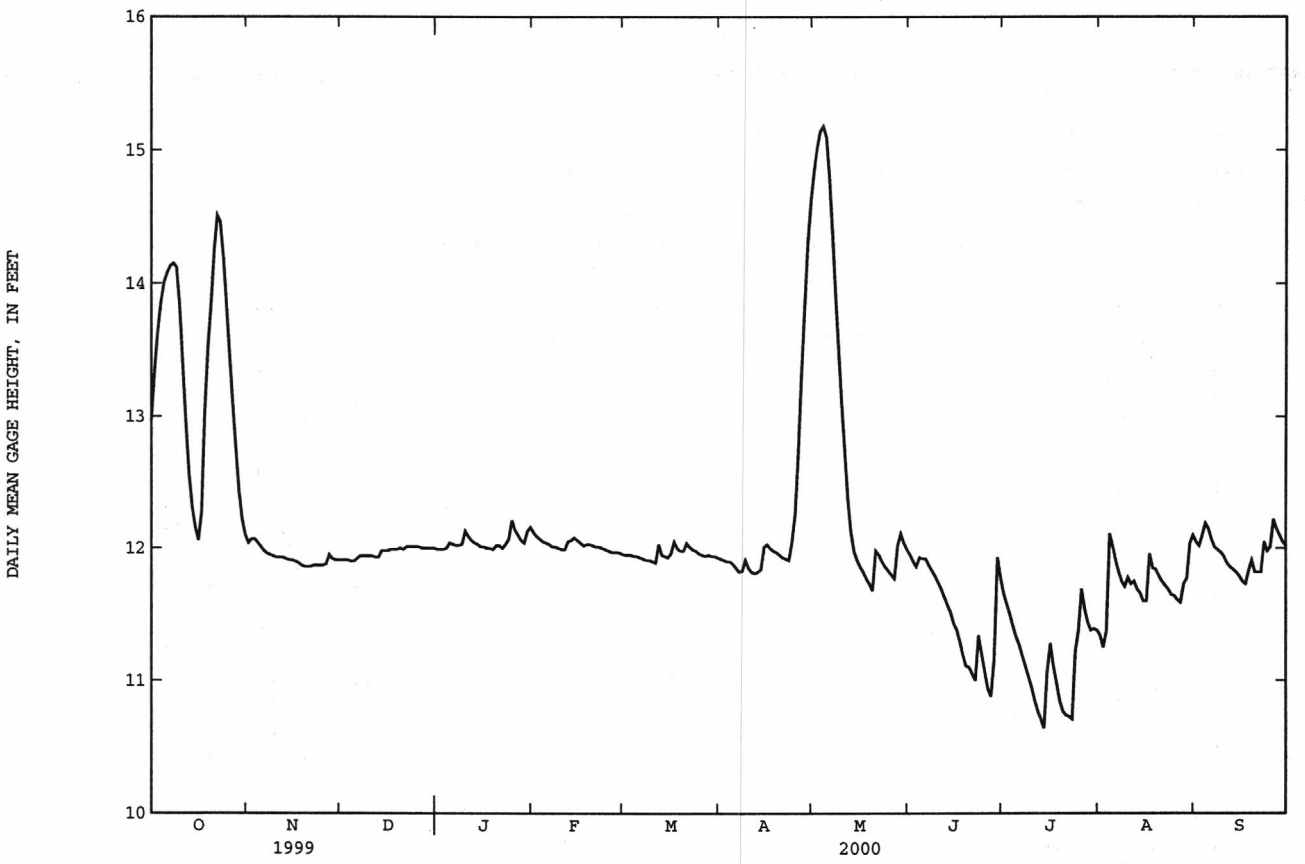
EXTREMES FOR PERIOD OF RECORD.--Maximum, 16.95 ft, Sept. 19, 1999; minimum recorded, 9.28 ft, Aug. 14, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 15.18 ft, May 4; minimum, 10.59 ft, July 14, 15.

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	12.97	12.04	11.91	11.99	12.12	11.95	11.92	14.85	11.95	11.66	11.34	12.05
2	13.34	12.07	11.91	11.99	12.09	11.95	11.91	15.02	11.90	11.58	11.25	12.02
3	13.64	12.07	11.91	11.99	12.07	11.95	11.90	15.14	11.86	11.50	11.37	12.10
4	13.86	12.04	11.90	12.00	12.05	11.94	11.90	15.18	11.93	11.41	12.11	12.19
5	14.01	12.01	11.90	12.04	12.04	11.94	11.88	15.10	11.92	11.33	12.02	12.15
6	14.08	11.98	11.92	12.03	12.03	11.93	11.85	14.80	11.92	11.27	11.91	12.07
7	14.13	11.96	11.94	12.02	12.01	11.92	11.82	14.38	11.87	11.19	11.82	12.01
8	14.15	11.95	11.94	12.02	12.01	11.91	11.83	13.92	11.83	11.11	11.75	11.99
9	14.12	11.94	11.94	12.03	12.00	11.91	11.91	13.50	11.79	11.03	11.71	11.97
10	13.82	11.93	11.94	12.13	11.99	11.90	11.85	13.10	11.74	10.95	11.78	11.94
11	13.38	11.93	11.94	12.09	11.99	11.89	11.82	12.74	11.69	10.85	11.73	11.89
12	12.94	11.93	11.93	12.06	12.05	12.03	11.81	12.38	11.63	10.77	11.75	11.86
13	12.56	11.92	11.93	12.04	12.06	11.95	11.82	12.13	11.57	10.71	11.69	11.84
14	12.31	11.91	11.98	12.03	12.08	11.94	11.84	11.98	11.51	10.64	11.66	11.82
15	12.16	11.91	11.98	12.01	12.06	11.93	12.01	11.91	11.43	11.07	11.60	11.79
16	12.06	11.90	11.98	12.01	12.04	11.96	12.03	11.86	11.38	11.28	11.60	11.75
17	12.27	11.89	11.99	12.00	12.02	12.05	12.00	11.82	11.29	11.11	11.96	11.73
18	13.03	11.87	11.99	12.00	12.03	12.00	11.98	11.77	11.19	10.98	11.85	11.83
19	13.51	11.86	11.99	11.99	12.03	11.98	11.97	11.73	11.11	10.85	11.84	11.91
20	13.85	11.86	12.00	12.02	12.02	11.98	11.95	11.68	11.10	10.77	11.79	11.82
21	14.25	11.86	11.99	12.02	12.01	12.04	11.93	11.98	11.05	10.74	11.75	11.82
22	14.51	11.87	12.01	12.00	12.01	12.01	11.92	11.95	11.00	10.73	11.72	11.82
23	14.46	11.87	12.01	12.03	12.00	11.99	11.91	11.90	11.34	10.71	11.69	12.05
24	14.20	11.87	12.01	12.07	11.99	11.98	12.05	11.86	11.20	11.22	11.65	11.98
25	13.83	11.87	12.01	12.21	11.98	11.96	12.26	11.83	11.07	11.38	11.64	12.01
26	13.45	11.88	12.01	12.14	11.97	11.95	12.73	11.80	10.94	11.69	11.61	12.22
27	13.08	11.95	12.00	12.10	11.97	11.94	13.34	11.77	10.88	11.54	11.59	12.15
28	12.75	11.92	12.00	12.06	11.97	11.95	13.84	12.02	11.16	11.44	11.73	12.10
29	12.43	11.91	12.00	12.04	11.96	11.94	14.31	12.11	11.93	11.38	11.77	12.05
30	12.22	11.91	12.00	12.13	---	11.94	14.62	12.04	11.78	11.39	12.04	12.02
31	12.10	---	12.00	12.16	---	11.93	---	11.99	---	11.38	12.10	---
MEAN	13.34	11.93	11.97	12.05	12.02	11.96	12.23	12.78	11.50	11.15	11.74	11.97
MAX	14.51	12.07	12.01	12.21	12.12	12.05	14.62	15.18	11.95	11.69	12.11	12.22
MIN	12.06	11.86	11.90	11.99	11.96	11.89	11.81	11.68	10.88	10.64	11.25	11.73

355540077083401 BROADNECK TRANSECT (SITE #3)--Continued



0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC

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

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1998 to current year.

pH: January 1998 to current year.

WATER TEMPERATURE: January 1998 to current year.

DISSOLVED OXYGEN: January 1998 to current year.

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

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

REMARKS.--Station operated in cooperation with U.S. Fish and Wildlife Service to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	177, April 8, 1999	32, September 18, 19, 1999
pH, standard units	7.9, March 8, 1998	5.7, September 18-21, 1999
WATER TEMPERATURE, °C	31.1, August 1, 1999	2.8, January 30, 2000
DISSOLVED OXYGEN, mg/L	14.2, January 7, 1999	2.2, May 15, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	121, July 5, 6, 1999	26, May 15, 2000

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	151, March 11	71, October 23
pH, standard units	7.3, May 18-24	5.8, October 23, 24
WATER TEMPERATURE, °C	29.3, August 11	2.8, January 30
DISSOLVED OXYGEN, mg/L	13.1, February 14	2.2, May 15
DISSOLVED OXYGEN, PERCENT SATURATION,%	107, February 27	26, May 15

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	95	89	91	124	110	116	130	128	129	126	124	124
2	94	90	92	129	110	118	129	121	127	124	109	115
3	91	89	90	129	115	121	123	116	120	123	107	115
4	93	89	91	122	114	117	127	116	122	113	107	110
5	93	89	91	123	114	119	128	118	125	117	109	111
6	91	89	90	116	114	115	127	119	121	116	110	112
7	92	90	91	117	114	116	138	121	130	125	111	116
8	91	90	90	121	116	119	138	121	133	120	111	113
9	92	89	90	134	116	123	128	116	119	118	112	115
10	---	---	---	134	130	133	125	117	121	116	112	114
11	---	---	---	131	121	125	125	119	121	115	111	113
12	---	---	---	124	120	122	127	120	122	113	109	112
13	---	---	---	124	123	124	129	123	126	114	109	111
14	---	---	---	128	123	124	142	124	135	113	108	111
15	---	---	---	129	118	125	144	142	143	114	109	111
16	116	106	109	127	118	122	143	134	139	113	110	112
17	112	91	107	126	122	124	134	113	124	112	109	111
18	101	81	93	125	111	120	115	108	110	112	108	110
19	95	80	88	111	108	109	112	108	110	112	109	110
20	87	77	81	112	108	110	118	108	110	111	109	110
21	88	78	82	114	111	113	119	111	113	114	108	111
22	90	75	82	114	110	111	128	114	123	118	110	113
23	83	71	75	113	110	112	128	124	126	119	113	115
24	88	74	80	130	113	122	126	124	125	117	113	115
25	97	81	85	130	125	127	128	112	118	118	111	115
26	98	86	91	127	118	122	123	113	118	113	109	112
27	103	90	95	121	115	116	118	111	113	113	109	111
28	107	97	101	127	118	123	125	112	120	116	110	113
29	115	103	108	131	118	124	123	113	117	117	113	115
30	113	108	110	131	130	130	125	120	124	115	109	113
31	115	109	112	---	---	---	125	124	124	118	109	114
MONTH	---	---	---	134	108	120	144	108	123	126	107	113

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	117	110	114	125	118	121	134	114	122	---	---	---
2	112	105	109	126	119	122	135	115	122	---	---	---
3	108	103	105	126	119	123	133	116	122	---	---	---
4	108	103	106	126	118	122	117	116	117	---	---	---
5	110	104	106	125	118	121	117	115	116	---	---	---
6	111	103	107	130	121	125	117	116	116	---	---	---
7	113	105	109	129	122	125	117	116	116	---	---	---
8	114	108	111	145	122	132	118	116	117	---	---	---
9	---	---	---	145	141	142	117	115	116	---	---	---
10	---	---	---	145	126	140	117	115	116	---	---	---
11	---	---	---	151	129	141	117	114	116	---	---	---
12	---	---	---	150	125	138	114	111	113	104	100	102
13	---	---	---	131	123	127	113	111	112	107	104	105
14	---	---	---	132	121	126	112	111	112	109	106	108
15	116	110	113	145	129	142	112	110	111	110	108	109
16	116	109	112	144	122	135	112	110	111	110	108	109
17	118	111	114	124	120	121	111	109	110	112	108	109
18	119	112	114	146	124	140	110	108	109	114	109	112
19	122	115	118	138	119	126	109	107	108	117	112	114
20	119	114	117	121	117	119	---	---	---	115	113	114
21	120	113	115	121	116	118	---	---	---	118	114	116
22	119	114	116	131	119	125	---	---	---	119	116	117
23	120	114	116	122	114	115	---	---	---	119	115	118
24	123	115	118	130	115	121	---	---	---	119	115	117
25	125	117	121	123	115	119	---	---	---	127	119	123
26	126	118	122	136	118	129	---	---	---	135	127	131
27	126	120	122	135	119	123	---	---	---	139	135	137
28	126	120	123	138	129	134	---	---	---	137	135	136
29	125	120	122	140	134	137	---	---	---	136	132	134
30	---	---	---	136	129	133	---	---	---	132	129	130
31	---	---	---	134	128	130	---	---	---	129	128	129
MONTH	---	---	---	151	114	128	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	128	119	124	118	106	111	121	104	110	117	99	107
2	119	116	117	120	107	114	120	107	114	118	101	109
3	121	118	120	122	106	113	116	106	111	102	99	101
4	122	120	120	119	106	113	115	105	110	104	97	99
5	122	121	122	114	106	109	116	104	111	113	104	110
6	121	112	117	120	113	119	114	106	110	114	100	108
7	113	111	112	121	113	119	110	102	106	101	99	99
8	116	112	114	121	106	112	103	92	96	108	99	101
9	118	114	116	123	105	114	109	95	105	119	108	115
10	118	115	116	108	105	105	107	99	103	120	118	119
11	115	112	114	132	107	119	115	101	110	121	108	116
12	113	110	112	132	125	129	113	102	104	120	101	108
13	111	109	110	125	123	124	121	103	113	110	100	104
14	110	109	110	125	111	121	114	108	109	110	100	105
15	112	109	111	126	109	120	123	114	120	108	100	101
16	112	111	111	126	107	116	119	117	118	122	104	110
17	113	110	112	128	110	123	118	109	113	120	106	113
18	114	111	113	120	109	112	118	112	115	109	106	107
19	130	114	117	133	120	130	127	118	123	127	108	120
20	135	110	120	132	126	128	128	127	127	121	100	106
21	110	109	109	129	126	127	130	128	129	108	98	101
22	116	108	111	129	111	123	129	128	129	108	98	101
23	121	107	111	126	110	117	128	122	125	107	98	101
24	117	105	109	129	108	116	123	115	121	106	98	100
25	117	105	108	128	113	119	120	107	111	104	95	98
26	114	104	107	130	120	126	127	120	125	109	95	99
27	112	102	106	120	96	104	126	109	116	109	102	104
28	112	104	106	112	101	105	129	121	126	106	95	99
29	112	102	105	104	99	100	125	115	119	96	90	93
30	109	104	105	114	103	107	123	111	117	102	94	98
31	---	---	---	117	104	111	119	111	113	---	---	---
MONTH	135	102	113	133	96	116	130	92	115	127	90	105

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	6.2	5.9	6.1	6.3	6.2	6.3	6.6	6.6	6.6	6.9	6.8	6.8
2	6.5	6.2	6.3	6.4	6.3	6.3	6.7	6.6	6.7	6.9	6.8	6.9
3	6.5	6.4	6.5	6.5	6.4	6.4	6.7	6.6	6.7	6.9	6.9	6.9
4	6.5	6.4	6.4	6.5	6.5	6.5	6.7	6.6	6.6	7.0	6.9	6.9
5	6.4	6.2	6.3	6.6	6.5	6.5	6.6	6.6	6.6	6.9	6.8	6.9
6	6.2	6.0	6.1	6.6	6.5	6.5	6.6	6.5	6.6	6.9	6.8	6.8
7	6.0	6.0	6.0	6.5	6.5	6.5	6.6	6.6	6.6	6.9	6.8	6.9
8	6.1	6.0	6.0	6.5	6.5	6.5	6.7	6.6	6.7	7.0	6.9	6.9
9	6.1	6.0	6.0	6.5	6.5	6.5	6.7	6.6	6.7	7.0	6.9	7.0
10	---	---	---	6.5	6.5	6.5	6.6	6.5	6.6	7.0	6.9	6.9
11	---	---	---	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.9	6.9
12	---	---	---	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.8	6.9
13	---	---	---	6.6	6.5	6.6	6.5	6.4	6.5	6.8	6.8	6.8
14	---	---	---	6.6	6.6	6.6	6.5	6.4	6.4	6.9	6.8	6.8
15	---	---	---	6.6	6.6	6.6	6.5	6.4	6.5	7.0	6.9	7.0
16	6.4	6.2	6.3	6.7	6.6	6.6	6.6	6.5	6.5	7.0	7.0	7.0
17	6.4	6.3	6.3	6.7	6.6	6.7	6.6	6.5	6.6	7.0	6.9	7.0
18	6.3	6.2	6.3	6.8	6.7	6.7	6.6	6.5	6.6	7.1	6.9	7.0
19	6.2	6.1	6.2	6.7	6.7	6.7	6.6	6.5	6.5	7.0	6.9	7.0
20	6.1	6.0	6.0	6.8	6.7	6.7	6.5	6.4	6.5	7.0	6.9	6.9
21	6.1	6.0	6.1	6.7	6.6	6.7	6.5	6.4	6.5	6.9	6.8	6.9
22	6.2	5.9	6.1	6.7	6.6	6.6	6.6	6.5	6.6	7.0	6.8	6.9
23	6.0	5.8	5.9	6.7	6.6	6.6	6.6	6.6	6.6	7.0	6.7	6.9
24	5.9	5.8	5.9	6.6	6.5	6.5	6.7	6.6	6.6	6.8	6.7	6.8
25	6.0	5.9	5.9	6.6	6.5	6.5	6.7	6.7	6.7	6.8	6.6	6.7
26	6.1	5.9	6.0	6.6	6.5	6.5	6.7	6.7	6.7	6.8	6.6	6.7
27	6.2	6.0	6.1	6.6	6.5	6.5	6.7	6.7	6.7	6.7	6.6	6.6
28	6.2	6.1	6.1	6.6	6.5	6.5	6.7	6.7	6.7	6.8	6.7	6.8
29	6.3	6.2	6.3	6.6	6.5	6.5	6.7	6.6	6.7	6.8	6.6	6.8
30	6.3	6.2	6.3	6.6	6.5	6.6	6.8	6.7	6.7	6.7	6.3	6.5
31	6.3	6.2	6.3	---	---	---	6.8	6.8	6.8	6.7	6.3	6.6
MONTH	---	---	---	6.8	6.2	6.5	6.8	6.4	6.6	7.1	6.3	6.9

ROANOKE RIVER BASIN

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	6.7	6.6	6.6	6.6	6.4	6.5	6.5	6.5	6.5	---	---	---
2	6.6	6.3	6.4	6.6	6.5	6.6	6.6	6.5	6.6	---	---	---
3	6.4	6.2	6.3	6.6	6.5	6.5	6.8	6.6	6.7	---	---	---
4	6.4	6.2	6.3	6.6	6.4	6.5	6.8	6.8	6.8	---	---	---
5	6.4	6.1	6.3	6.5	6.4	6.5	6.8	6.7	6.8	---	---	---
6	6.3	6.2	6.2	6.5	6.4	6.5	6.8	6.7	6.8	---	---	---
7	6.3	6.2	6.2	6.5	6.3	6.4	6.8	6.7	6.7	---	---	---
8	6.3	6.2	6.3	6.4	6.3	6.3	6.7	6.6	6.6	---	---	---
9	---	---	---	6.4	6.3	6.3	6.7	6.6	6.6	---	---	---
10	---	---	---	6.4	6.3	6.4	6.8	6.7	6.7	---	---	---
11	---	---	---	6.4	6.3	6.4	6.8	6.7	6.7	---	---	---
12	---	---	---	6.4	6.4	6.4	6.8	6.6	6.7	7.0	6.9	7.0
13	---	---	---	6.4	6.4	6.4	6.8	6.8	6.8	7.1	6.9	7.0
14	---	---	---	6.4	6.4	6.4	6.8	6.7	6.7	7.1	7.0	7.0
15	6.9	6.8	6.8	6.4	6.3	6.4	6.8	6.6	6.7	7.1	7.0	7.0
16	6.8	6.7	6.8	6.4	6.2	6.3	6.8	6.7	6.8	7.2	7.0	7.1
17	6.8	6.7	6.8	6.3	6.3	6.3	6.7	6.6	6.6	7.2	7.0	7.1
18	7.0	6.7	6.7	6.4	6.2	6.3	6.8	6.6	6.6	7.3	7.0	7.1
19	7.0	6.8	6.9	6.4	6.3	6.4	6.9	6.7	6.8	7.3	7.1	7.2
20	6.8	6.6	6.6	6.3	6.2	6.3	---	---	---	7.3	7.1	7.2
21	6.6	6.5	6.6	6.3	6.2	6.3	---	---	---	7.3	7.1	7.2
22	6.6	6.5	6.5	6.3	6.2	6.3	---	---	---	7.3	7.1	7.2
23	6.6	6.5	6.6	6.3	6.2	6.3	---	---	---	7.3	7.1	7.2
24	6.7	6.6	6.6	6.3	6.2	6.3	---	---	---	7.3	7.0	7.2
25	6.7	6.6	6.6	6.3	6.1	6.1	---	---	---	7.2	6.9	7.0
26	6.7	6.6	6.7	6.2	6.1	6.1	---	---	---	7.1	6.8	6.9
27	6.7	6.5	6.6	6.1	6.1	6.1	---	---	---	7.1	6.9	7.0
28	6.6	6.5	6.6	6.1	6.1	6.1	---	---	---	7.1	7.0	7.0
29	6.6	6.5	6.5	6.3	6.1	6.2	---	---	---	7.2	6.9	7.1
30	---	---	---	6.3	6.3	6.3	---	---	---	7.2	7.1	7.1
31	---	---	---	6.5	6.3	6.4	---	---	---	7.1	6.9	7.0
MONTH	---	---	---	6.6	6.1	6.3	---	---	---	---	---	---

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

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	21.6	20.8	21.3	16.7	15.7	16.3	13.2	11.0	12.0	8.1	7.5	7.8
2	21.6	21.0	21.3	17.5	16.5	17.0	11.1	10.7	10.9	8.6	7.8	8.2
3	21.5	20.9	21.2	17.5	16.4	17.0	11.0	10.6	10.9	8.9	8.4	8.6
4	21.6	20.9	21.2	16.4	15.6	16.1	11.4	10.5	11.0	10.0	8.9	9.4
5	21.4	21.0	21.2	15.7	15.0	15.3	11.9	11.1	11.6	10.4	10.0	10.2
6	21.1	20.5	20.8	15.4	14.9	15.2	12.2	11.8	12.0	10.2	9.9	10.1
7	20.8	20.0	20.4	15.3	14.8	15.1	12.4	12.0	12.1	10.0	9.5	9.7
8	20.5	19.7	20.0	15.1	14.6	14.9	12.1	11.6	11.9	9.7	9.4	9.5
9	20.3	19.4	19.9	14.7	14.2	14.5	11.6	11.1	11.2	9.8	9.6	9.7
10	---	---	---	15.2	14.3	14.8	11.2	11.0	11.1	10.0	9.7	9.8
11	---	---	---	15.2	14.9	15.1	11.5	11.1	11.3	10.1	9.8	9.9
12	---	---	---	15.6	15.1	15.4	11.2	10.8	11.0	10.0	9.7	9.8
13	---	---	---	15.8	15.3	15.5	11.4	10.7	11.1	9.8	9.4	9.5
14	---	---	---	15.7	15.2	15.4	12.2	11.4	11.8	9.5	8.6	9.0
15	---	---	---	15.4	14.8	15.1	12.1	11.7	12.0	8.8	8.3	8.5
16	19.9	19.2	19.5	14.8	14.1	14.4	12.5	11.9	12.2	8.5	7.8	8.1
17	20.0	19.4	19.6	14.1	12.9	13.4	12.3	11.2	11.6	8.1	7.2	7.5
18	20.1	19.8	20.0	12.9	12.6	12.7	11.3	10.8	10.9	7.3	6.6	7.0
19	19.8	18.9	19.2	13.1	12.8	13.0	11.0	10.8	10.9	6.9	5.9	6.3
20	18.9	18.6	18.8	13.4	12.7	13.1	11.0	10.8	10.9	6.4	5.8	6.1
21	18.6	17.8	18.3	14.0	13.1	13.6	11.1	10.8	11.0	6.0	5.5	5.8
22	17.9	16.9	17.5	14.9	13.8	14.4	11.1	10.7	10.9	5.8	5.2	5.5
23	17.0	16.0	16.5	15.3	14.9	15.0	10.8	10.4	10.6	5.8	4.8	5.3
24	16.1	15.2	15.6	16.0	15.2	15.5	10.4	9.3	9.9	5.1	4.7	4.9
25	15.7	14.6	15.0	16.0	15.7	15.8	9.3	8.0	8.6	5.0	4.0	4.5
26	15.3	14.3	14.8	15.8	15.2	15.5	8.0	7.5	7.7	4.1	3.4	3.8
27	15.3	14.2	14.7	16.0	15.6	15.8	7.6	7.1	7.4	3.7	3.0	3.3
28	15.4	14.3	14.8	16.2	15.6	15.9	7.1	6.6	6.8	3.7	3.5	3.5
29	15.6	15.1	15.4	15.6	15.1	15.3	7.0	6.5	6.8	3.5	3.1	3.2
30	15.8	15.2	15.6	15.1	13.2	14.2	7.1	6.4	6.8	3.3	2.8	3.1
31	16.1	15.2	15.6	---	---	---	7.7	7.0	7.3	3.8	3.2	3.5
MONTH	---	---	---	17.5	12.6	15.0	13.2	6.4	10.4	10.4	2.8	7.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.8	3.4	3.6	10.8	10.0	10.4	15.0	14.0	14.4	---	---	---
2	3.5	3.1	3.3	11.0	10.6	10.8	14.5	14.1	14.3	---	---	---
3	3.6	3.1	3.3	10.9	10.3	10.6	15.1	14.2	14.6	---	---	---
4	3.9	3.4	3.6	10.7	10.1	10.4	15.1	14.6	14.9	---	---	---
5	4.1	3.6	3.8	10.5	10.0	10.3	15.2	14.8	15.0	---	---	---
6	4.3	3.7	4.0	11.1	10.1	10.6	15.2	14.8	15.0	---	---	---
7	4.7	4.0	4.4	11.7	10.8	11.3	15.6	14.9	15.1	---	---	---
8	4.9	4.4	4.7	13.1	11.4	12.2	15.9	15.1	15.4	---	---	---
9	---	---	---	14.1	12.5	13.4	15.9	15.2	15.5	---	---	---
10	---	---	---	14.9	13.5	14.3	15.8	14.9	15.3	---	---	---
11	---	---	---	16.1	14.4	15.2	15.9	15.2	15.6	---	---	---
12	---	---	---	15.9	14.5	15.5	15.9	15.3	15.6	22.4	21.5	22.0
13	---	---	---	14.6	13.6	14.1	15.9	15.1	15.4	23.2	22.4	22.8
14	---	---	---	14.6	13.4	14.0	15.3	14.6	14.8	23.5	23.0	23.2
15	6.4	5.5	5.9	14.5	13.8	14.2	14.9	14.3	14.6	23.3	22.5	23.0
16	6.9	6.0	6.4	14.4	13.1	13.7	15.4	14.7	15.0	22.8	22.3	22.5
17	6.9	6.4	6.7	14.6	14.2	14.5	16.0	15.2	15.5	22.6	22.3	22.4
18	6.8	6.3	6.5	14.5	13.1	13.8	16.0	15.8	15.9	23.1	22.2	22.7
19	7.2	6.4	6.7	13.3	12.9	13.1	16.0	15.6	15.8	23.8	22.4	23.1
20	7.6	6.8	7.2	12.9	12.5	12.6	---	---	---	24.7	23.2	23.9
21	7.8	7.2	7.5	12.8	12.4	12.6	---	---	---	24.6	24.2	24.3
22	7.5	7.0	7.3	12.4	11.9	12.1	---	---	---	24.4	23.9	24.1
23	7.7	7.1	7.4	12.1	11.6	11.9	---	---	---	24.2	23.8	24.0
24	8.2	7.5	7.8	12.7	11.8	12.2	---	---	---	24.0	23.2	23.6
25	8.9	8.1	8.4	13.5	12.4	13.0	---	---	---	24.6	23.9	24.2
26	9.6	8.9	9.2	14.5	13.4	13.9	---	---	---	25.4	24.3	24.8
27	10.4	9.6	10.0	15.4	14.1	14.8	---	---	---	25.2	24.3	24.7
28	10.6	9.8	10.2	16.0	14.8	15.4	---	---	---	25.1	24.6	24.9
29	10.6	9.9	10.2	16.0	15.2	15.7	---	---	---	24.6	23.2	23.8
30	---	---	---	15.7	14.7	15.2	---	---	---	23.2	21.2	21.9
31	---	---	---	15.2	14.5	14.9	---	---	---	21.2	20.6	20.8
MONTH	---	---	---	16.1	10.0	13.1	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	21.3	20.1	20.7	26.5	26.0	26.3	26.9	26.0	26.4	25.6	25.4	25.5
2	23.4	21.2	22.2	26.9	26.0	26.5	27.4	26.6	27.0	26.2	25.4	25.9
3	24.3	23.3	23.9	26.9	26.6	26.8	27.4	26.8	27.1	26.5	26.0	26.2
4	23.8	22.8	23.5	27.6	26.4	26.9	27.6	27.1	27.3	26.5	26.1	26.3
5	23.6	22.0	22.9	27.9	27.0	27.4	27.8	27.0	27.4	26.4	24.9	25.9
6	22.2	21.8	22.0	28.4	27.5	28.0	27.6	26.8	27.2	24.9	24.1	24.4
7	22.7	21.6	22.1	28.4	27.8	28.1	27.9	27.2	27.5	24.2	23.9	24.0
8	23.4	22.5	22.9	28.4	27.5	27.9	28.4	27.2	27.7	24.0	23.4	23.7
9	23.9	22.9	23.4	27.8	26.5	27.1	28.9	28.2	28.5	24.0	23.4	23.7
10	24.0	23.5	23.7	27.6	26.2	26.8	29.0	28.6	28.8	25.0	24.0	24.5
11	24.6	23.8	24.2	28.6	27.3	27.9	29.3	28.6	29.0	25.3	24.2	24.8
12	25.0	24.5	24.7	28.6	28.0	28.3	28.6	28.1	28.4	25.2	24.5	24.9
13	25.6	24.8	25.2	28.2	27.9	28.0	28.6	28.0	28.3	25.6	24.9	25.2
14	26.0	25.5	25.8	28.2	27.6	28.0	28.2	27.3	27.6	25.6	25.0	25.3
15	26.1	25.7	25.9	27.6	27.3	27.5	27.7	27.1	27.4	25.8	25.2	25.5
16	26.4	25.6	25.9	28.0	26.9	27.4	27.7	26.9	27.3	25.8	24.7	25.2
17	26.9	25.8	26.3	28.5	27.6	28.1	28.0	27.2	27.6	24.7	23.9	24.3
18	27.6	26.8	27.2	28.5	27.6	28.2	28.4	27.7	28.0	23.9	23.1	23.4
19	28.2	27.2	27.7	29.2	28.1	28.7	28.4	27.6	28.0	23.1	22.5	22.7
20	28.0	27.0	27.3	29.1	28.3	28.7	28.0	27.2	27.6	24.0	22.8	23.5
21	27.2	26.8	27.1	28.8	27.8	28.2	27.6	26.9	27.2	24.0	23.5	23.8
22	27.0	26.0	26.4	27.8	27.3	27.4	27.0	26.1	26.5	24.0	23.6	23.8
23	27.2	26.0	26.6	27.9	27.2	27.5	26.5	26.0	26.3	23.9	23.5	23.8
24	27.1	26.4	26.6	27.2	26.8	27.0	27.5	26.2	26.7	23.8	23.2	23.5
25	27.0	26.3	26.5	26.9	25.7	26.3	27.2	26.6	26.8	23.8	23.6	23.7
26	27.0	26.3	26.6	25.7	25.0	25.4	27.3	26.6	26.9	23.7	22.5	23.1
27	27.2	26.4	26.7	25.6	24.2	24.9	27.2	26.4	26.6	22.5	21.7	22.1
28	27.0	26.5	26.7	26.0	25.6	25.8	26.8	26.4	26.5	21.7	21.2	21.4
29	26.5	26.2	26.4	26.3	25.8	26.1	26.5	25.7	25.9	21.2	20.2	20.7
30	26.5	25.9	26.2	26.6	26.2	26.4	25.9	25.4	25.6	20.8	20.0	20.4
31	---	---	---	26.5	26.1	26.3	25.5	25.0	25.3	---	---	---
MONTH	28.2	20.1	25.1	29.2	24.2	27.2	29.3	25.0	27.2	26.5	20.0	24.0

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	---	---	---	6.1	5.0	5.5	8.5	7.7	8.1	---	---	---
2	---	---	---	6.8	5.5	6.0	8.9	8.5	8.7	---	---	---
3	---	---	---	6.6	6.0	6.3	8.8	8.6	8.7	---	---	---
4	---	---	---	7.0	6.5	6.8	8.9	8.6	8.7	---	---	---
5	---	---	---	7.5	6.8	7.2	8.7	8.3	8.5	---	---	---
6	---	---	---	7.7	7.2	7.4	8.5	8.3	8.4	---	---	---
7	---	---	---	7.5	7.0	7.3	8.5	8.0	8.3	---	---	---
8	---	---	---	7.5	6.8	7.2	8.5	8.3	8.4	---	---	---
9	---	---	---	7.7	7.1	7.3	8.8	8.5	8.7	---	---	---
10	---	---	---	7.6	6.9	7.2	8.8	8.5	8.7	---	---	---
11	---	---	---	7.6	7.0	7.3	8.7	8.4	8.5	---	---	---
12	---	---	---	7.7	7.0	7.2	8.6	8.3	8.4	---	---	---
13	---	---	---	7.9	7.1	7.4	8.4	8.0	8.2	---	---	---
14	---	---	---	7.9	6.9	7.5	8.2	7.7	8.0	---	---	---
15	---	---	---	7.8	6.9	7.4	8.2	7.9	8.1	---	---	---
16	5.6	4.3	5.1	8.0	7.5	7.7	8.3	8.0	8.2	---	---	---
17	5.8	4.6	5.1	8.2	7.7	7.9	---	---	---	---	---	---
18	6.0	5.2	5.6	8.8	8.1	8.5	---	---	---	---	---	---
19	5.3	3.9	4.8	8.6	8.4	8.5	---	---	---	---	---	---
20	5.1	4.0	4.5	8.9	8.6	8.8	---	---	---	---	---	---
21	5.7	4.9	5.3	8.7	8.2	8.5	---	---	---	---	---	---
22	5.9	4.7	5.3	8.4	8.0	8.2	---	---	---	10.3	9.5	9.8
23	5.4	4.3	4.7	8.2	7.6	7.8	---	---	---	10.6	9.7	10.2
24	5.1	4.2	4.5	7.8	7.4	7.6	---	---	---	10.4	9.9	10.2
25	5.5	4.5	4.8	7.8	7.4	7.6	---	---	---	10.8	10.2	10.5
26	5.8	4.7	5.1	7.8	7.4	7.6	---	---	---	10.9	10.4	10.7
27	6.0	4.8	5.3	7.7	7.1	7.5	---	---	---	11.2	10.6	10.9
28	6.1	5.2	5.6	7.4	7.1	7.2	---	---	---	11.8	11.0	11.4
29	6.7	5.6	6.2	7.4	7.0	7.2	---	---	---	11.9	11.3	11.6
30	6.5	5.5	6.1	7.7	7.1	7.4	---	---	---	11.6	10.8	11.3
31	6.2	5.2	5.7	---	---	---	---	---	---	12.1	11.0	11.8
MONTH	---	---	---	8.9	5.0	7.4	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	11.9	12.1	11.8	10.8	11.2	10.2	9.3	9.9	---	---	---
2	12.2	11.3	11.8	11.5	11.0	11.3	10.5	10.0	10.2	---	---	---
3	12.0	10.8	11.4	11.5	10.8	11.2	10.9	10.1	10.3	---	---	---
4	11.8	11.2	11.5	11.4	10.6	11.1	10.6	10.1	10.3	---	---	---
5	11.9	11.2	11.5	11.5	10.8	11.1	10.3	10.0	10.1	---	---	---
6	12.1	11.3	11.7	11.3	10.7	11.0	10.3	9.9	10.1	---	---	---
7	---	---	---	11.3	10.5	11.0	10.6	10.1	10.3	---	---	---
8	---	---	---	11.2	10.1	10.6	10.5	10.1	10.3	---	---	---
9	---	---	---	10.3	9.6	9.9	10.4	9.9	10.1	---	---	---
10	---	---	---	10.6	9.4	9.9	10.3	9.9	10.2	---	---	---
11	---	---	---	10.5	9.3	9.8	10.4	9.8	10.1	---	---	---
12	---	---	---	10.0	9.0	9.5	10.4	9.9	10.2	4.3	3.0	3.6
13	---	---	---	10.5	9.6	9.9	10.4	9.9	10.1	4.0	2.7	3.2
14	---	---	---	10.7	10.1	10.4	10.1	9.7	9.9	3.7	2.8	3.2
15	12.8	12.1	12.5	10.1	9.5	9.7	10.0	9.6	9.8	3.3	2.2	2.8
16	12.5	11.8	12.2	10.4	9.4	9.9	10.0	9.5	9.8	4.0	2.8	3.4
17	12.5	11.9	12.2	10.6	9.9	10.3	9.6	8.8	9.1	4.4	3.0	3.7
18	12.9	11.8	12.2	10.4	9.4	9.8	9.6	8.8	9.0	4.6	3.0	3.7
19	13.0	12.5	12.8	10.9	10.0	10.5	9.6	8.6	9.2	4.3	3.1	3.7
20	12.6	11.6	12.0	10.5	10.2	10.3	---	---	---	4.0	3.0	3.5
21	12.0	11.4	11.7	10.7	10.1	10.4	---	---	---	3.7	2.5	3.1
22	12.3	11.4	11.8	10.5	10.0	10.2	---	---	---	3.7	2.3	3.1
23	12.4	11.4	11.9	10.8	10.4	10.6	---	---	---	---	---	---
24	12.4	11.9	12.1	11.1	10.2	10.6	---	---	---	---	---	---
25	12.3	11.8	12.1	11.0	10.2	10.6	---	---	---	3.6	2.9	3.2
26	12.3	11.7	12.0	10.8	10.1	10.3	---	---	---	3.3	2.7	3.0
27	12.2	11.1	11.7	10.4	9.6	10.1	---	---	---	3.3	2.7	3.1
28	11.9	11.3	11.6	9.6	9.1	9.4	---	---	---	3.5	2.9	3.1
29	11.7	11.1	11.4	9.3	8.7	9.0	---	---	---	4.0	3.0	3.4
30	---	---	---	9.3	8.7	9.1	---	---	---	4.2	3.3	3.8
31	---	---	---	9.4	8.9	9.1	---	---	---	4.2	3.5	3.9
MONTH	---	---	---	11.8	8.7	10.3	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	5.8	5.4	5.6	6.3	5.9	6.1	6.7	5.7	6.1
2	---	---	---	5.8	5.4	5.6	6.4	5.9	6.1	---	---	---
3	---	---	---	6.4	5.7	6.1	6.3	5.9	6.1	---	---	---
4	---	---	---	6.3	5.9	6.1	6.3	6.0	6.1	---	---	---
5	---	---	---	6.2	5.8	6.0	6.1	5.9	6.0	---	---	---
6	---	---	---	5.9	5.6	5.8	6.1	5.5	5.9	---	---	---
7	7.2	6.8	7.0	6.1	5.6	5.8	5.6	4.8	5.2	---	---	---
8	7.2	6.9	7.1	6.2	5.7	6.1	5.0	4.7	4.9	---	---	---
9	7.5	7.0	7.3	6.3	5.8	6.0	5.4	4.8	5.1	---	---	---
10	7.7	7.2	7.4	6.7	6.2	6.4	5.6	4.8	5.3	---	---	---
11	7.8	7.3	7.5	6.7	5.6	6.1	5.4	4.3	4.8	---	---	---
12	7.8	7.3	7.5	6.1	5.7	6.0	5.0	4.2	4.5	7.1	6.7	6.9
13	7.7	7.2	7.4	6.3	6.0	6.2	5.9	3.8	4.2	7.2	6.8	7.0
14	7.6	7.1	7.3	6.8	5.9	6.2	4.7	4.0	4.2	6.9	5.9	6.4
15	7.4	6.9	7.1	6.8	6.1	6.4	4.5	3.9	4.2	6.5	5.9	6.3
16	7.2	6.8	6.9	6.9	5.9	6.4	4.8	4.0	4.3	6.8	6.1	6.6
17	7.1	6.5	6.7	6.7	5.7	6.0	4.5	4.0	4.3	7.0	6.7	6.9
18	7.1	6.5	6.7	7.4	6.1	6.7	4.9	4.1	4.4	7.3	6.8	7.0
19	6.8	6.2	6.6	6.8	6.2	6.4	4.8	4.0	4.3	7.5	7.1	7.3
20	6.6	6.2	6.4	6.7	6.2	6.5	5.1	4.2	4.6	7.5	6.8	7.0
21	6.8	6.4	6.6	6.8	6.4	6.6	5.1	4.4	4.7	7.3	6.9	7.1
22	6.7	6.0	6.3	6.5	6.2	6.3	5.2	4.5	4.8	7.4	7.1	7.3
23	6.6	6.1	6.4	6.6	6.2	6.3	5.5	5.0	5.2	7.3	6.7	7.2
24	6.5	6.3	6.4	6.5	6.2	6.3	5.3	4.8	5.0	6.7	5.7	6.2
25	6.6	6.3	6.5	6.4	6.1	6.2	5.3	4.8	5.0	6.7	5.4	5.9
26	6.6	6.3	6.5	6.8	6.3	6.5	5.2	4.7	4.9	6.9	6.4	6.7
27	6.5	6.1	6.3	6.5	5.8	6.0	5.7	4.8	5.2	7.1	6.7	6.9
28	6.2	5.9	6.1	6.0	5.8	5.9	6.2	4.9	5.5	7.3	6.9	7.1
29	6.1	5.7	5.9	6.2	5.7	6.0	6.4	5.5	5.9	7.4	7.0	7.2
30	5.9	5.5	5.8	6.2	5.9	6.0	7.1	5.8	6.2	7.6	7.1	7.3
31	---	---	---	6.3	5.8	6.0	7.1	5.7	6.3	---	---	---
MONTH	---	---	---	7.4	5.4	6.1	7.1	3.8	5.1	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	---	---	---	62	51	56	76	73	75	---	---	---
2	---	---	---	70	56	62	80	76	78	---	---	---
3	---	---	---	68	62	65	80	77	79	---	---	---
4	---	---	---	72	66	69	80	78	79	---	---	---
5	---	---	---	75	69	72	80	76	78	---	---	---
6	---	---	---	76	72	74	78	76	77	---	---	---
7	---	---	---	74	70	72	78	75	77	---	---	---
8	---	---	---	74	68	71	79	77	78	---	---	---
9	---	---	---	76	70	72	80	78	79	---	---	---
10	---	---	---	75	68	72	80	76	78	---	---	---
11	---	---	---	76	70	73	78	75	77	---	---	---
12	---	---	---	77	69	72	78	75	76	---	---	---
13	---	---	---	78	71	75	76	73	75	---	---	---
14	---	---	---	79	69	75	75	70	73	---	---	---
15	---	---	---	76	69	74	75	72	74	---	---	---
16	61	47	55	78	74	75	77	74	75	---	---	---
17	64	50	55	78	74	76	---	---	---	---	---	---
18	66	57	62	83	77	80	---	---	---	---	---	---
19	58	42	51	82	79	81	---	---	---	---	---	---
20	54	43	48	85	81	83	---	---	---	---	---	---
21	60	52	56	83	80	82	---	---	---	---	---	---
22	63	49	55	82	79	81	---	---	---	82	75	78
23	56	44	48	81	75	78	---	---	---	83	76	80
24	51	42	45	78	75	76	---	---	---	82	77	80
25	55	44	47	79	75	77	---	---	---	84	79	81
26	58	46	51	78	74	77	---	---	---	84	79	81
27	60	47	52	78	71	75	---	---	---	84	79	82
28	61	51	56	74	72	73	---	---	---	89	83	86
29	68	56	62	74	70	72	---	---	---	89	84	87
30	66	55	61	74	70	72	---	---	---	87	81	84
31	63	52	57	---	---	---	---	---	---	92	83	89
MONTH	---	---	---	85	51	74	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	93	90	92	104	96	100	99	90	95	---	---	---
2	92	85	89	103	99	102	101	96	98	---	---	---
3	91	82	86	103	96	100	106	97	100	---	---	---
4	90	85	88	103	94	99	104	98	101	---	---	---
5	91	86	88	103	96	99	102	97	99	---	---	---
6	95	87	90	102	95	99	102	97	99	---	---	---
7	---	---	---	104	95	100	104	99	101	---	---	---
8	---	---	---	103	95	99	104	99	101	---	---	---
9	---	---	---	99	91	94	104	97	100	---	---	---
10	---	---	---	103	90	96	102	96	100	---	---	---
11	---	---	---	103	93	97	103	97	100	---	---	---
12	---	---	---	98	90	95	103	98	101	48	34	40
13	---	---	---	101	92	96	103	97	100	46	31	37
14	---	---	---	103	97	101	99	94	96	42	32	37
15	101	97	100	97	92	94	98	92	95	38	26	32
16	101	95	98	101	90	95	97	94	96	46	33	39
17	102	97	100	103	96	101	94	87	90	50	34	42
18	104	95	98	99	91	95	96	87	90	52	34	42
19	106	103	104	103	94	100	96	86	91	49	36	42
20	104	96	99	99	96	97	---	---	---	47	35	41
21	100	95	97	101	94	98	---	---	---	44	29	37
22	102	94	98	97	93	94	---	---	---	43	27	37
23	103	95	99	100	96	98	---	---	---	---	---	---
24	104	99	101	104	94	99	---	---	---	---	---	---
25	106	100	103	105	95	101	---	---	---	42	34	38
26	106	102	104	103	97	100	---	---	---	40	33	36
27	107	98	103	102	95	99	---	---	---	39	33	37
28	105	100	103	96	91	94	---	---	---	42	34	37
29	104	98	101	92	87	90	---	---	---	46	36	40
30	---	---	---	91	86	89	---	---	---	48	39	43
31	---	---	---	92	86	89	---	---	---	47	38	43
MONTH	---	---	---	105	86	97	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, 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	---	---	---	70	66	68	76	73	75	81	68	73
2	---	---	---	71	66	68	78	72	75	---	---	---
3	---	---	---	78	70	75	77	73	75	---	---	---
4	---	---	---	78	73	75	77	74	76	---	---	---
5	---	---	---	77	72	75	75	72	74	---	---	---
6	---	---	---	74	70	72	75	70	72	---	---	---
7	82	77	80	76	70	73	70	60	66	---	---	---
8	83	79	81	78	72	76	62	59	61	---	---	---
9	87	81	84	77	72	74	68	60	64	---	---	---
10	90	84	87	83	75	78	71	62	67	---	---	---
11	92	86	88	83	71	77	69	55	62	---	---	---
12	93	86	89	77	72	75	64	52	57	84	79	81
13	92	86	89	79	75	77	75	47	53	85	81	84
14	92	86	88	84	74	78	57	49	52	82	70	76
15	90	83	86	84	76	79	55	48	51	78	71	75
16	88	82	84	86	72	79	60	50	53	80	74	78
17	86	79	82	83	70	75	56	50	53	81	78	80
18	88	80	83	93	77	84	61	52	55	83	78	80
19	86	79	83	87	78	81	58	50	54	85	80	82
20	82	77	79	85	79	82	62	52	56	85	78	80
21	84	79	81	84	80	82	62	55	58	84	80	82
22	83	74	77	81	76	78	63	54	58	85	81	83
23	80	76	78	82	77	79	66	60	63	84	76	82
24	80	77	78	80	76	78	64	58	60	77	64	71
25	80	77	79	77	75	76	64	58	61	77	62	68
26	81	77	79	81	76	78	63	56	59	78	73	76
27	79	76	78	77	69	71	69	58	63	79	74	77
28	77	73	75	72	69	71	74	60	66	80	76	78
29	75	69	72	75	68	72	76	66	71	80	76	78
30	72	68	70	75	72	74	84	69	74	82	76	79
31	---	---	---	76	70	74	84	69	75	---	---	---
MONTH	---	---	---	93	66	76	84	47	63	---	---	---



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

02081054 ROANOKE RIVER AT WILLIAMSTON, NC

LOCATION.--Lat 35°51'40", long 77°02'20", Martin County, Hydrologic Unit 03010107, on right bank 175 ft upstream of U.S. Highway 17 bridge, .75 mi above Sweetwater Creek, and 1 mi northeast of Williamston.

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

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

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

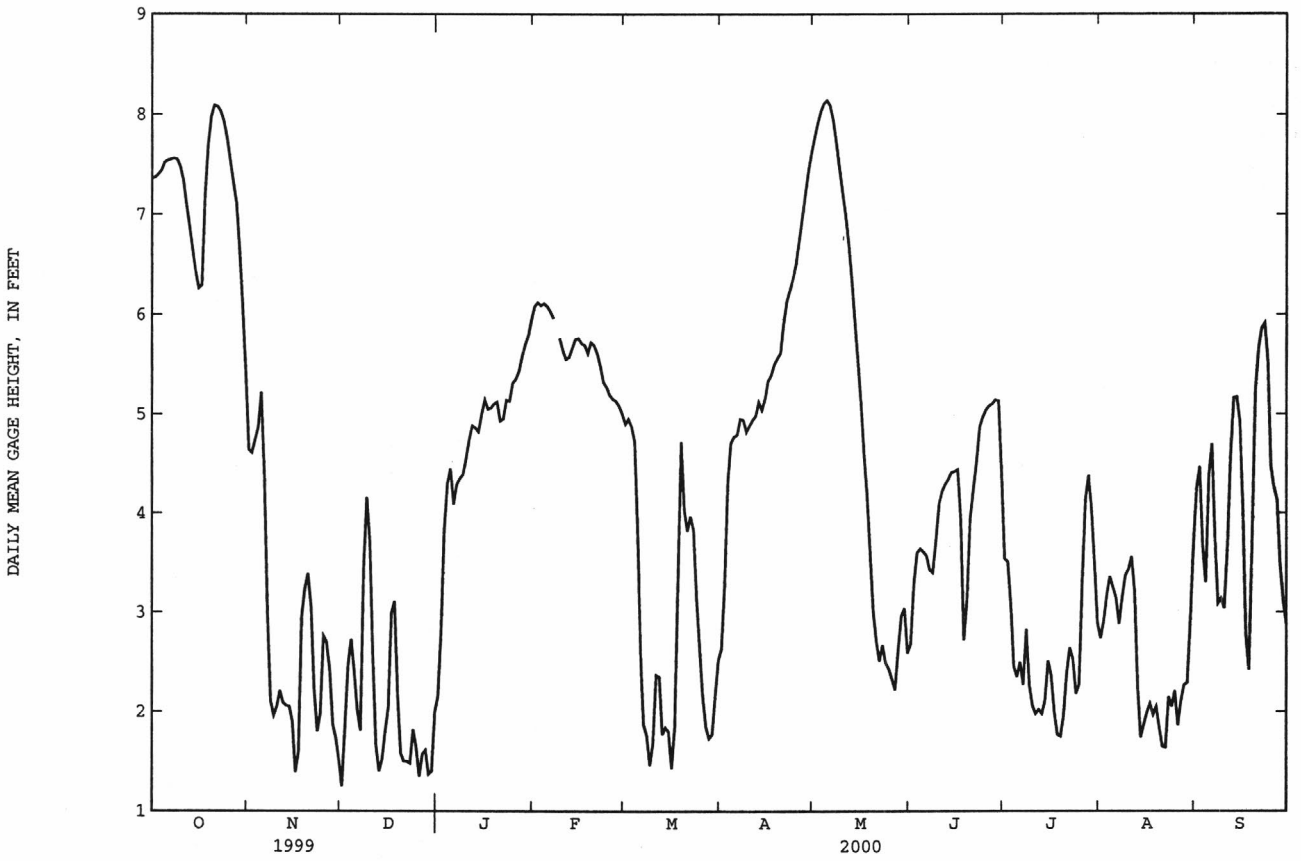
EXTREMES FOR PERIOD OF RECORD.--Maximum, 10.13 ft, Sept. 18, 1999; minimum, -0.35 ft, Jan. 4, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum, 8.16 ft, May 5; minimum, 1.09 ft, Dec. 1, 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	7.36	4.64	1.25	2.15	6.08	4.90	2.63	7.77	2.68	3.54	2.74	4.25
2	7.37	4.61	1.85	2.81	6.12	4.95	3.26	7.91	3.29	3.51	2.91	4.47
3	7.40	4.74	2.47	3.84	6.09	4.87	4.31	8.03	3.60	3.08	3.17	3.67
4	7.44	4.86	2.73	4.30	6.11	4.72	4.71	8.11	3.64	2.45	3.36	3.30
5	7.52	5.22	2.39	4.45	6.08	3.77	4.77	8.14	3.61	2.35	3.25	4.39
6	7.54	4.39	2.01	4.09	6.03	2.57	4.79	8.09	3.57	2.50	3.14	4.70
7	7.55	3.00	1.81	4.29	5.96	1.87	4.95	7.94	3.43	2.27	2.88	3.72
8	7.56	2.11	3.46	4.35	---	1.76	4.94	7.71	3.40	2.83	3.15	3.09
9	7.55	1.96	4.16	4.39	5.76	1.46	4.82	7.46	3.72	2.26	3.37	3.14
10	7.48	2.05	3.71	4.55	5.64	1.68	4.88	7.22	4.09	2.06	3.43	3.04
11	7.34	2.21	2.54	4.74	5.55	2.37	4.94	6.99	4.22	1.98	3.56	3.66
12	7.09	2.09	1.66	4.88	5.57	2.35	4.98	6.70	4.29	2.02	3.21	4.59
13	6.87	2.06	1.40	4.86	5.66	1.77	5.12	6.35	4.34	1.98	2.25	5.16
14	6.64	2.05	1.52	4.82	5.75	1.84	5.04	5.93	4.41	2.11	1.74	5.17
15	6.42	1.90	1.80	5.00	5.76	1.80	5.15	5.53	4.42	2.51	1.87	4.92
16	6.26	1.39	2.04	5.14	5.71	1.43	5.33	5.11	4.44	2.36	1.99	4.07
17	6.29	1.59	2.99	5.05	5.69	1.84	5.39	4.60	3.93	2.00	2.08	2.78
18	7.20	2.95	3.11	5.06	5.61	3.32	5.50	4.18	2.72	1.77	1.97	2.42
19	7.71	3.23	2.17	5.10	5.72	4.72	5.56	3.59	3.12	1.75	2.05	3.78
20	7.98	3.39	1.58	5.12	5.69	4.04	5.61	3.01	3.95	1.96	1.84	5.24
21	8.09	3.06	1.50	4.93	5.61	3.82	5.91	2.71	4.24	2.38	1.65	5.66
22	8.08	2.23	1.50	4.95	5.48	3.97	6.13	2.51	4.52	2.64	1.64	5.86
23	8.03	1.80	1.48	5.14	5.32	3.83	6.24	2.67	4.87	2.53	2.15	5.91
24	7.93	1.98	1.82	5.13	5.27	3.13	6.35	2.49	4.97	2.18	2.05	5.53
25	7.76	2.76	1.64	5.31	5.19	2.64	6.50	2.43	5.04	2.27	2.21	4.47
26	7.54	2.70	1.35	5.35	5.15	2.15	6.73	2.33	5.08	3.34	1.86	4.26
27	7.32	2.42	1.57	5.43	5.13	1.85	6.96	2.22	5.10	4.14	2.11	4.14
28	7.12	1.87	1.61	5.58	5.08	1.73	7.20	2.62	5.14	4.38	2.27	3.49
29	6.65	1.73	1.37	5.70	5.00	1.77	7.43	2.96	5.13	4.03	2.29	3.12
30	6.09	1.51	1.40	5.79	---	2.16	7.61	3.04	4.40	3.48	2.92	2.88
31	5.42	---	1.99	5.95	---	2.52	---	2.59	---	2.89	3.69	---
MEAN	7.25	2.75	2.06	4.78	---	2.83	5.46	5.13	4.11	2.63	2.54	4.16
MAX	8.09	5.22	4.16	5.95	---	4.95	7.61	8.14	5.14	4.38	3.69	5.91
MIN	5.42	1.39	1.25	2.15	---	1.43	2.63	2.22	2.68	1.75	1.64	2.42

02081054 ROANOKE RIVER AT WILLIAMSTON, NC--Continued



0208108600 CONINE CREEK AT US HIGHWAY 17 NR WILLAMSTON, NC

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

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

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

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

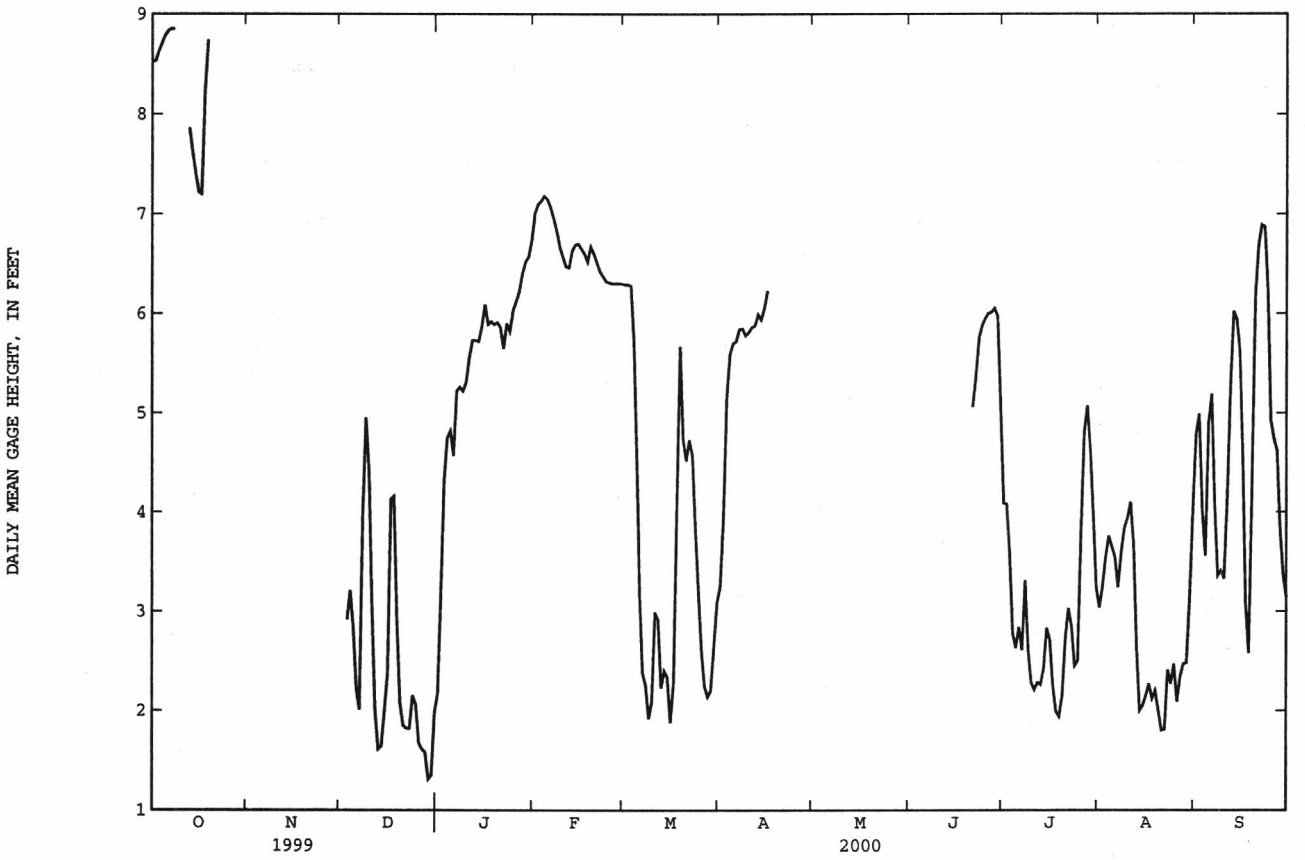
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, undetermined; minimum recorded gage height, 0.68 ft, Oct. 23, 24, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, undetermined; minimum recorded gage height, undetermined.

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	---	---	---	2.17	7.01	6.29	3.25	---	---	4.09	3.04	4.79
2	8.53	---	---	3.17	7.10	6.29	3.95	---	---	4.08	3.25	4.99
3	8.63	---	2.92	4.32	7.13	6.28	5.16	---	---	3.57	3.55	4.01
4	8.71	---	3.21	4.75	7.18	5.72	5.59	---	---	2.78	3.76	3.56
5	8.78	---	2.83	4.82	7.15	4.52	5.70	---	---	2.63	3.65	4.90
6	8.83	---	2.22	4.57	7.07	3.14	5.72	---	---	2.84	3.54	5.19
7	8.85	---	2.01	5.22	6.96	2.38	5.84	---	---	2.61	3.24	4.06
8	8.85	---	3.97	5.26	6.83	2.26	5.85	---	---	3.31	3.60	3.36
9	---	---	4.95	5.22	6.67	1.92	5.78	---	---	2.61	3.84	3.41
10	---	---	4.41	5.31	6.57	2.09	5.81	---	---	2.28	3.94	3.33
11	---	---	3.04	5.56	6.47	2.99	5.86	---	---	2.21	4.10	4.15
12	---	---	2.02	5.73	6.46	2.92	5.88	---	---	2.28	3.66	5.27
13	7.86	---	1.61	5.73	6.63	2.23	5.99	---	---	2.26	2.63	6.02
14	7.61	---	1.64	5.72	6.69	2.40	5.94	---	---	2.42	2.00	5.94
15	7.40	---	1.99	5.87	6.70	2.34	6.05	---	---	2.83	2.05	5.62
16	7.22	---	2.37	6.09	6.65	1.88	6.23	---	---	2.71	2.15	4.60
17	7.20	---	4.13	5.89	6.60	2.27	---	---	---	2.25	2.27	3.08
18	8.23	---	4.16	5.92	6.52	4.04	---	---	---	1.99	2.12	2.58
19	8.74	---	2.91	5.89	6.67	5.67	---	---	---	1.94	2.20	4.31
20	---	---	2.08	5.91	6.60	4.73	---	---	---	2.15	2.00	6.17
21	---	---	1.85	5.86	6.51	4.52	---	---	5.06	2.72	1.80	6.68
22	---	---	1.82	5.65	6.42	4.73	---	---	5.37	3.03	1.81	6.89
23	---	---	1.82	5.90	6.37	4.57	---	---	5.76	2.85	2.41	6.87
24	---	---	2.15	5.82	6.32	3.82	---	---	5.88	2.45	2.27	6.25
25	8.83	---	2.06	6.03	6.31	3.20	---	---	5.95	2.50	2.47	4.93
26	---	---	1.67	6.12	6.30	2.61	---	---	6.00	3.82	2.09	4.74
27	---	---	1.61	6.22	6.30	2.25	---	---	6.01	4.81	2.34	4.62
28	---	---	1.58	6.40	6.30	2.14	---	---	6.05	5.07	2.47	3.84
29	---	---	1.31	6.52	6.30	2.20	---	---	5.97	4.64	2.48	3.38
30	---	---	1.35	6.57	---	2.64	---	---	5.07	3.97	3.16	3.15
31	---	---	1.98	6.74	---	3.09	---	---	---	3.24	4.05	---
MEAN	---	---	---	5.51	6.65	3.49	---	---	---	3.00	2.84	4.69
MAX	---	---	---	6.74	7.18	6.29	---	---	---	5.07	4.10	6.89
MIN	---	---	---	2.17	6.30	1.88	---	---	---	1.94	1.80	2.58

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



355326076565301 DEVILS GUT TRANSECT (SITE #1)

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

DRAINAGE AREA.--Indeterminate.

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

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

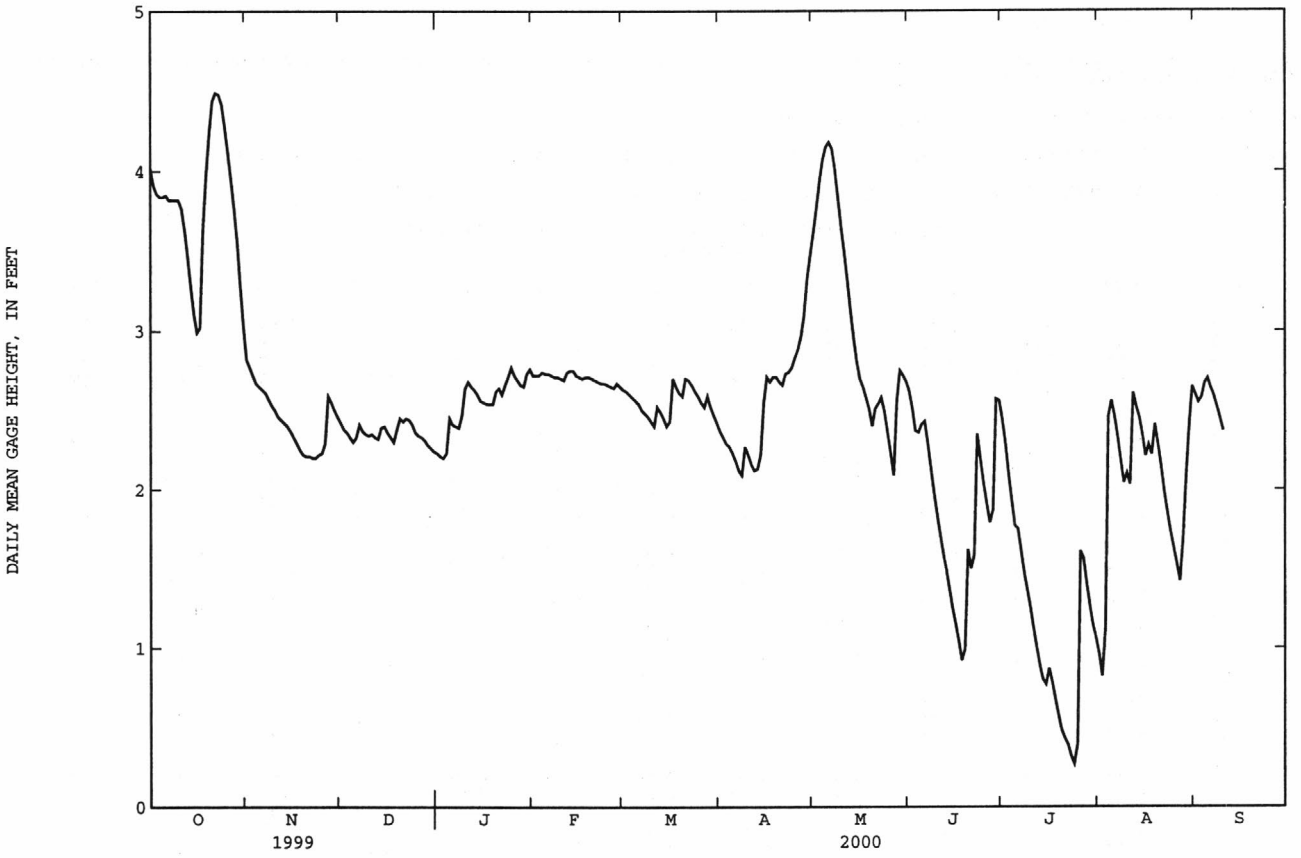
EXTREMES FOR PERIOD OF RECORD.--Maximum, 7.29 ft, Sept. 18, 19, 1999; minimum, -0.87 ft, Sept. 3, 4, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 4.49 ft, Oct. 22, 23; minimum, 0.26 ft, July, 24, 25.

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	4.02	2.82	2.42	2.23	2.72	2.63	2.37	3.61	2.62	2.44	.96	2.60
2	3.91	2.77	2.38	2.21	2.72	2.62	2.33	3.76	2.51	2.29	.82	2.55
3	3.86	2.72	2.36	2.20	2.72	2.60	2.29	3.93	2.37	2.10	1.12	2.58
4	3.84	2.67	2.33	2.23	2.74	2.58	2.27	4.07	2.36	1.93	2.46	2.67
5	3.84	2.65	2.30	2.45	2.73	2.56	2.23	4.15	2.41	1.77	2.56	2.70
6	3.85	2.63	2.33	2.41	2.73	2.54	2.18	4.18	2.43	1.75	2.46	2.64
7	3.82	2.61	2.41	2.40	2.72	2.50	2.12	4.14	2.29	1.61	2.33	2.59
8	3.82	2.57	2.37	2.39	2.71	2.48	2.09	4.01	2.13	1.47	2.18	2.52
9	3.82	2.53	2.35	2.47	2.71	2.46	2.27	3.83	1.98	1.36	2.04	2.45
10	3.82	2.50	2.34	2.64	2.70	2.43	2.22	3.65	1.84	1.25	2.10	2.37
11	3.77	2.46	2.35	2.68	2.69	2.40	2.16	3.49	1.71	1.12	2.03	---
12	3.64	2.44	2.33	2.65	2.74	2.52	2.12	3.32	1.59	1.00	2.61	---
13	3.47	2.42	2.32	2.63	2.75	2.49	2.13	3.13	1.49	.89	2.52	---
14	3.28	2.40	2.39	2.60	2.75	2.45	2.22	2.96	1.37	.80	2.45	---
15	3.11	2.37	2.40	2.56	2.72	2.40	2.55	2.81	1.25	.77	2.34	---
16	2.99	2.33	2.36	2.55	2.71	2.43	2.71	2.70	1.15	.87	2.21	---
17	3.02	2.29	2.33	2.54	2.70	2.70	2.68	2.65	1.04	.78	2.28	---
18	3.63	2.25	2.30	2.54	2.71	2.65	2.71	2.58	.92	.67	2.22	---
19	3.97	2.22	2.38	2.54	2.71	2.61	2.71	2.51	.99	.57	2.41	---
20	4.23	2.21	2.45	2.62	2.70	2.59	2.68	2.40	1.62	.48	2.28	---
21	4.44	2.21	2.43	2.64	2.69	2.70	2.66	2.51	1.50	.43	2.14	---
22	4.49	2.20	2.45	2.60	2.68	2.69	2.73	2.54	1.58	.39	1.98	---
23	4.48	2.20	2.44	2.66	2.67	2.66	2.74	2.58	2.35	.32	1.85	---
24	4.42	2.22	2.41	2.71	2.67	2.62	2.77	2.49	2.19	.27	1.73	---
25	4.28	2.23	2.36	2.77	2.66	2.59	2.83	2.36	2.04	.39	1.63	---
26	4.12	2.29	2.34	2.72	2.65	2.55	2.88	2.23	1.91	1.61	1.53	---
27	3.95	2.59	2.33	2.69	2.64	2.52	2.96	2.09	1.79	1.56	1.42	---
28	3.77	2.55	2.31	2.66	2.67	2.59	3.09	2.56	1.87	1.40	1.69	---
29	3.56	2.50	2.28	2.65	2.65	2.52	3.32	2.75	2.57	1.26	2.08	---
30	3.28	2.46	2.26	2.73	---	2.47	3.47	2.72	2.56	1.14	2.40	---
31	3.03	---	2.24	2.76	---	2.42	---	2.68	---	1.06	2.65	---
MEAN	3.79	2.44	2.36	2.55	2.70	2.55	2.55	3.08	1.88	1.15	2.05	---
MAX	4.49	2.82	2.45	2.77	2.75	2.70	3.47	4.18	2.62	2.44	2.65	---
MIN	2.99	2.20	2.24	2.20	2.64	2.40	2.09	2.09	.92	.27	.82	---

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



355024076562301 DEVILS GUT TRANSECT (SITE #2)

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

DRAINAGE AREA.--Indeterminate.

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

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

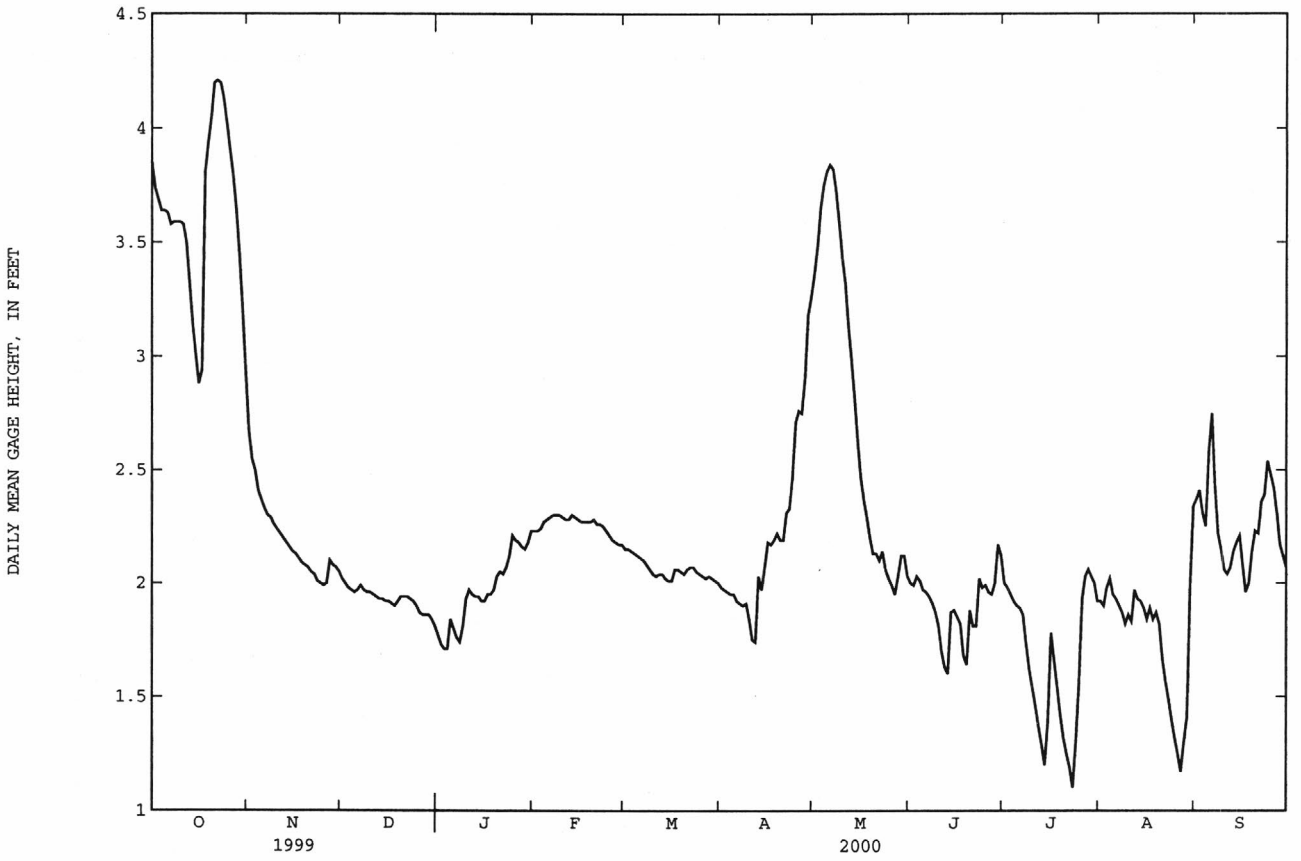
EXTREMES FOR PERIOD OF RECORD.--Maximum, 7.05 ft, Sept. 18, 19, 1999; minimum, 0.25 ft, July 10, 11, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 4.22 ft, Oct. 21, 22; minimum, 1.07 ft, July 23, 24.

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	3.85	2.67	2.02	1.77	2.23	2.15	1.98	3.36	2.00	2.00	1.92	2.37
2	3.74	2.55	2.00	1.73	2.23	2.15	1.97	3.48	1.99	1.98	1.90	2.41
3	3.69	2.50	1.98	1.71	2.24	2.14	1.96	3.65	2.03	1.95	1.98	2.31
4	3.64	2.41	1.97	1.71	2.27	2.13	1.95	3.75	2.01	1.92	2.02	2.25
5	3.64	2.37	1.96	1.84	2.28	2.12	1.95	3.81	1.97	1.90	1.95	2.58
6	3.63	2.33	1.97	1.80	2.29	2.11	1.92	3.84	1.96	1.89	1.93	2.75
7	3.58	2.30	1.99	1.76	2.30	2.10	1.91	3.82	1.94	1.86	1.90	2.43
8	3.59	2.29	1.97	1.74	2.30	2.08	1.90	3.72	1.91	1.73	1.87	2.22
9	3.59	2.26	1.96	1.81	2.30	2.06	1.91	3.58	1.87	1.62	1.82	2.15
10	3.59	2.24	1.96	1.93	2.29	2.04	1.84	3.43	1.81	1.54	1.86	2.06
11	3.58	2.22	1.95	1.97	2.28	2.03	1.75	3.32	1.70	1.46	1.83	2.04
12	3.50	2.20	1.94	1.95	2.28	2.04	1.74	3.13	1.63	1.37	1.97	2.07
13	3.32	2.18	1.93	1.94	2.30	2.04	2.03	2.98	1.60	1.29	1.93	2.14
14	3.14	2.16	1.93	1.94	2.29	2.02	1.97	2.82	1.87	1.20	1.92	2.18
15	3.01	2.14	1.92	1.92	2.28	2.01	2.07	2.63	1.88	1.39	1.89	2.21
16	2.88	2.13	1.92	1.92	2.27	2.01	2.18	2.47	1.85	1.78	1.84	2.08
17	2.94	2.11	1.91	1.95	2.27	2.06	2.17	2.37	1.82	1.66	1.89	1.96
18	3.81	2.09	1.90	1.95	2.27	2.06	2.19	2.29	1.68	1.54	1.84	2.00
19	3.94	2.08	1.92	1.97	2.27	2.05	2.22	2.20	1.64	1.42	1.87	2.14
20	4.05	2.07	1.94	2.03	2.28	2.04	2.19	2.13	1.88	1.32	1.82	2.23
21	4.20	2.05	1.94	2.05	2.26	2.06	2.19	2.13	1.81	1.25	1.67	2.22
22	4.21	2.04	1.94	2.04	2.26	2.07	2.31	2.10	1.81	1.19	1.57	2.36
23	4.20	2.01	1.93	2.07	2.25	2.07	2.33	2.14	2.02	1.10	1.49	2.39
24	4.13	2.00	1.92	2.12	2.23	2.05	2.47	2.06	1.98	1.30	1.40	2.54
25	4.02	1.99	1.90	2.21	2.21	2.04	2.71	2.02	1.99	1.55	1.32	2.48
26	3.90	2.00	1.87	2.19	2.19	2.03	2.76	1.99	1.96	1.93	1.25	2.42
27	3.79	2.10	1.86	2.18	2.18	2.02	2.75	1.95	1.95	2.03	1.17	2.31
28	3.64	2.08	1.86	2.16	2.17	2.03	2.90	2.03	2.00	2.06	1.30	2.17
29	3.44	2.07	1.86	2.15	2.17	2.02	3.18	2.12	2.17	2.03	1.41	2.12
30	3.20	2.05	1.84	2.18	---	2.01	3.26	2.12	2.12	2.00	2.00	2.07
31	2.93	---	1.81	2.23	---	2.00	---	2.03	---	1.92	2.34	---
MEAN	3.62	2.19	1.93	1.97	2.26	2.06	2.22	2.76	1.89	1.65	1.77	2.26
MAX	4.21	2.67	2.02	2.23	2.30	2.15	3.26	3.84	2.17	2.06	2.34	2.75
MIN	2.88	1.99	1.81	1.71	2.17	2.00	1.74	1.95	1.60	1.10	1.17	1.96

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



354900076554101 DEVILS GUT TRANSECT (SITE #3)

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

DRAINAGE AREA.--Indeterminate.

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

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

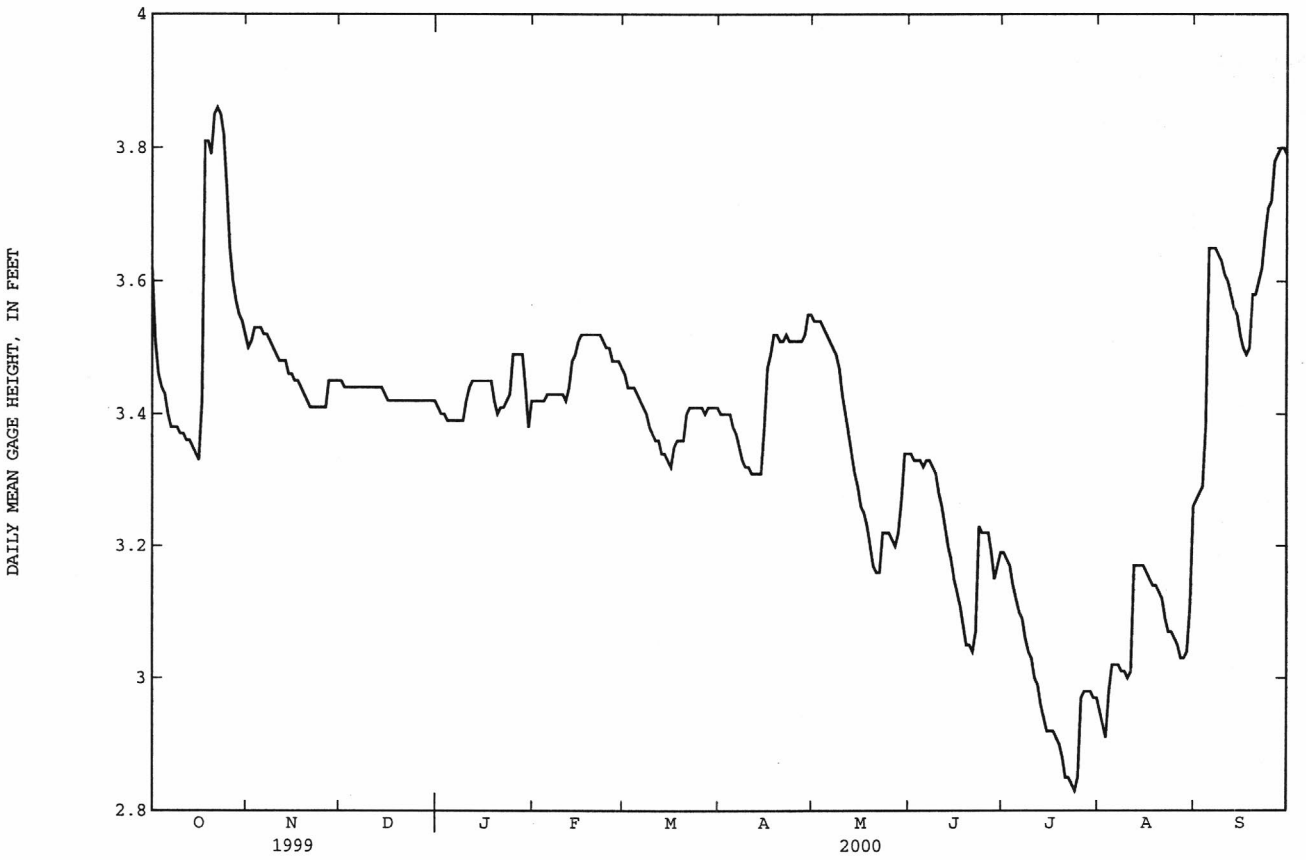
EXTREMES FOR PERIOD OF RECORD.--Maximum, 6.54 ft, Sept. 19, 1999; minimum, 1.73 ft, Aug. 29, 30, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 3.84 ft, Oct. 18; minimum, 2.83 ft, July 22, 23, 24, 25.

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	3.62	3.50	3.45	3.41	3.42	3.46	3.40	3.54	3.34	3.19	2.95	3.27
2	3.51	3.51	3.44	3.40	3.42	3.44	3.40	3.54	3.33	3.18	2.93	3.28
3	3.46	3.53	3.44	3.40	3.42	3.44	3.40	3.54	3.33	3.17	2.91	3.29
4	3.44	3.53	3.44	3.39	3.42	3.44	3.40	3.53	3.33	3.14	2.98	3.38
5	3.43	3.53	3.44	3.39	3.43	3.43	3.38	3.52	3.32	3.12	3.02	3.65
6	3.40	3.52	3.44	3.39	3.43	3.42	3.37	3.51	3.33	3.10	3.02	3.65
7	3.38	3.52	3.44	3.39	3.43	3.41	3.35	3.50	3.33	3.09	3.02	3.65
8	3.38	3.51	3.44	3.39	3.43	3.40	3.33	3.49	3.32	3.06	3.01	3.64
9	3.38	3.50	3.44	3.39	3.43	3.38	3.32	3.47	3.31	3.04	3.01	3.63
10	3.37	3.49	3.44	3.42	3.43	3.37	3.32	3.43	3.28	3.03	3.00	3.61
11	3.37	3.48	3.44	3.44	3.42	3.36	3.31	3.40	3.26	3.00	3.01	3.60
12	3.36	3.48	3.44	3.45	3.44	3.36	3.31	3.37	3.23	2.99	3.17	3.58
13	3.36	3.48	3.44	3.45	3.48	3.34	3.31	3.34	3.20	2.96	3.17	3.56
14	3.35	3.46	3.44	3.45	3.49	3.34	3.31	3.31	3.18	2.94	3.17	3.55
15	3.34	3.46	3.43	3.45	3.51	3.33	3.38	3.29	3.15	2.92	3.17	3.52
16	3.33	3.45	3.42	3.45	3.52	3.32	3.47	3.26	3.13	2.92	3.16	3.50
17	3.42	3.45	3.42	3.45	3.52	3.35	3.49	3.25	3.11	2.92	3.15	3.49
18	3.81	3.44	3.42	3.45	3.52	3.36	3.52	3.23	3.08	2.91	3.14	3.50
19	3.81	3.43	3.42	3.42	3.52	3.36	3.52	3.20	3.05	2.90	3.14	3.58
20	3.79	3.42	3.42	3.40	3.52	3.36	3.51	3.17	3.05	2.88	3.13	3.58
21	3.85	3.41	3.42	3.41	3.52	3.40	3.51	3.16	3.04	2.85	3.12	3.60
22	3.86	3.41	3.42	3.41	3.52	3.41	3.52	3.16	3.07	2.85	3.09	3.62
23	3.85	3.41	3.42	3.42	3.51	3.41	3.51	3.22	3.23	2.84	3.07	3.67
24	3.82	3.41	3.42	3.43	3.50	3.41	3.51	3.22	3.22	2.83	3.07	3.71
25	3.74	3.41	3.42	3.49	3.50	3.41	3.51	3.22	3.22	2.85	3.06	3.72
26	3.65	3.41	3.42	3.49	3.48	3.41	3.51	3.21	3.22	2.97	3.05	3.78
27	3.60	3.45	3.42	3.49	3.48	3.40	3.51	3.20	3.19	2.98	3.03	3.79
28	3.57	3.45	3.42	3.49	3.48	3.41	3.52	3.22	3.15	2.98	3.03	3.80
29	3.55	3.45	3.42	3.44	3.47	3.41	3.55	3.27	3.17	2.98	3.04	3.80
30	3.54	3.45	3.42	3.38	---	3.41	3.55	3.34	3.19	2.97	3.11	3.79
31	3.52	---	3.42	3.42	---	3.41	---	3.34	---	2.97	3.26	---
MEAN	3.54	3.47	3.43	3.43	3.47	3.39	3.43	3.34	3.21	2.98	3.07	3.59
MAX	3.86	3.53	3.45	3.49	3.52	3.46	3.55	3.54	3.34	3.19	3.26	3.80
MIN	3.33	3.41	3.42	3.38	3.42	3.32	3.31	3.16	3.04	2.83	2.91	3.27

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



0208108650 ROANOKE RIVER NR WOODARD, NC

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

DRAINAGE AREA.--Indeterminate.

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

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

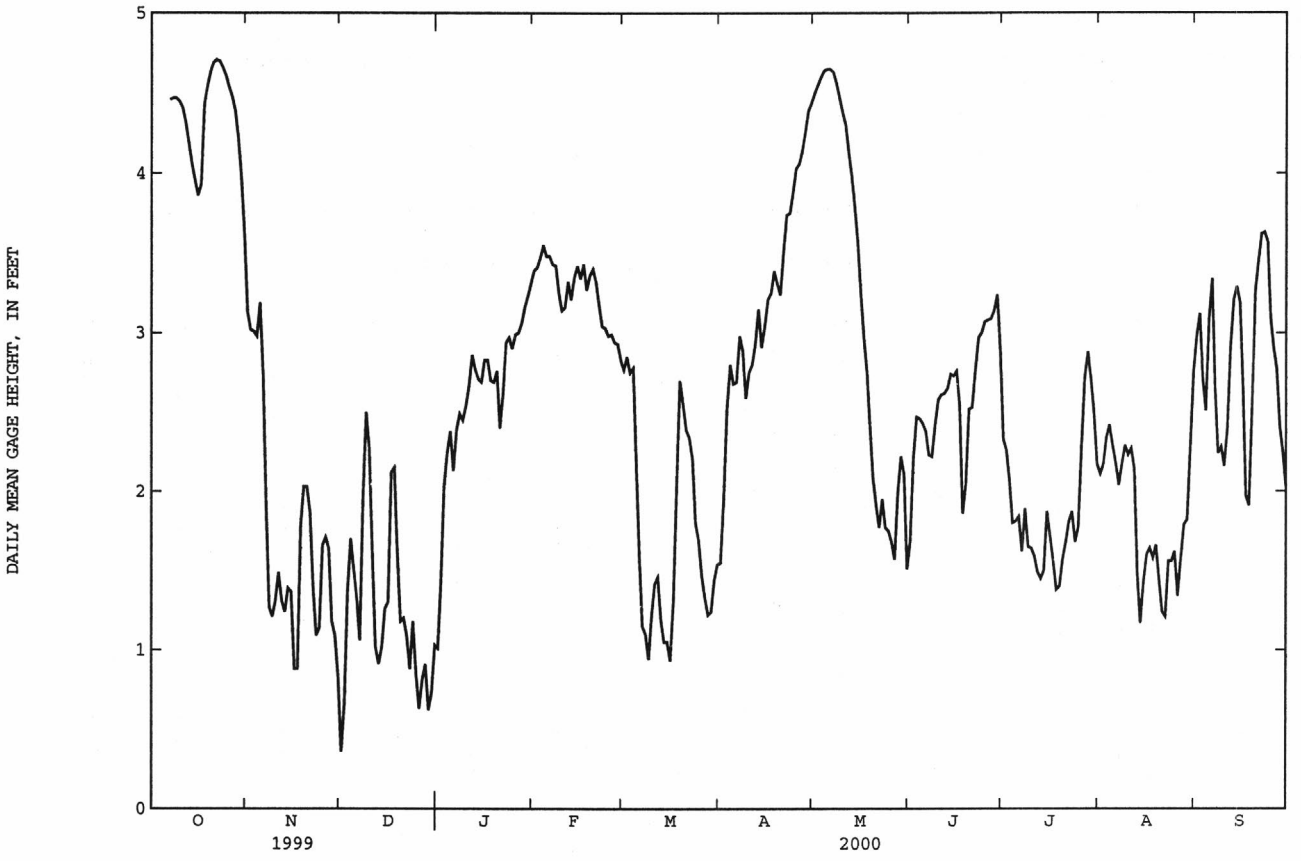
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 5.79 ft, Sept. 22, 23, 1996; minimum recorded gage height, -0.17 ft, Mar. 28, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 4.71 ft, Oct. 21, 22, 23; minimum recorded gage height, 0.32 ft, Dec. 1.

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	---	3.13	.36	1.01	3.39	2.77	1.55	4.50	1.68	2.33	2.11	2.98
2	---	3.02	.66	1.44	3.41	2.85	1.95	4.55	2.21	2.26	2.17	3.12
3	---	3.01	1.37	2.03	3.47	2.75	2.53	4.60	2.47	2.07	2.34	2.71
4	---	2.98	1.70	2.24	3.55	2.78	2.80	4.64	2.46	1.80	2.42	2.51
5	---	3.19	1.51	2.38	3.48	2.17	2.68	4.65	2.43	1.81	2.29	3.09
6	---	2.74	1.32	2.13	3.48	1.59	2.69	4.65	2.38	1.84	2.18	3.34
7	4.46	1.90	1.06	2.39	3.43	1.15	2.98	4.63	2.23	1.62	2.04	2.65
8	4.47	1.27	1.96	2.49	3.42	1.10	2.89	4.56	2.22	1.89	2.17	2.24
9	4.47	1.21	2.50	2.45	3.25	.94	2.59	4.47	2.42	1.65	2.29	2.28
10	4.45	1.31	2.27	2.54	3.14	1.23	2.75	4.38	2.58	1.64	2.23	2.16
11	4.41	1.49	1.61	2.67	3.16	1.42	2.80	4.30	2.61	1.59	2.27	2.40
12	4.32	1.31	1.02	2.86	3.32	1.46	2.93	4.13	2.62	1.49	2.14	2.92
13	4.19	1.24	.91	2.77	3.21	1.19	3.15	3.98	2.65	1.45	1.48	3.21
14	4.06	1.39	1.02	2.71	3.35	1.05	2.91	3.78	2.74	1.50	1.17	3.29
15	3.96	1.37	1.26	2.69	3.42	1.05	3.04	3.55	2.73	1.87	1.43	3.19
16	3.86	.88	1.30	2.83	3.34	.93	3.21	3.24	2.76	1.72	1.60	2.67
17	3.93	.88	2.12	2.83	3.43	1.31	3.25	2.96	2.54	1.56	1.64	1.97
18	4.43	1.78	2.15	2.70	3.27	2.04	3.39	2.75	1.86	1.38	1.58	1.91
19	4.54	2.03	1.59	2.69	3.36	2.70	3.31	2.40	2.04	1.40	1.66	2.55
20	4.63	2.03	1.18	2.76	3.40	2.55	3.24	2.08	2.52	1.57	1.44	3.26
21	4.69	1.87	1.20	2.40	3.32	2.39	3.51	1.91	2.53	1.68	1.24	3.45
22	4.71	1.40	1.09	2.62	3.17	2.34	3.74	1.77	2.76	1.81	1.21	3.62
23	4.70	1.09	.88	2.94	3.04	2.21	3.75	1.95	2.97	1.87	1.56	3.63
24	4.66	1.14	1.18	2.97	3.03	1.80	3.88	1.77	3.00	1.68	1.56	3.57
25	4.61	1.66	.85	2.90	2.98	1.69	4.03	1.75	3.07	1.77	1.62	3.09
26	4.54	1.71	.63	2.99	2.99	1.47	4.06	1.68	3.08	2.29	1.34	2.90
27	4.48	1.64	.81	3.00	2.94	1.33	4.14	1.57	3.09	2.72	1.58	2.77
28	4.39	1.18	.91	3.06	2.93	1.22	4.26	1.99	3.14	2.88	1.79	2.41
29	4.22	1.09	.62	3.16	2.83	1.24	4.39	2.22	3.24	2.71	1.82	2.25
30	3.97	.83	.73	3.23	---	1.44	4.44	2.11	2.88	2.49	2.29	2.03
31	3.62	---	1.03	3.31	---	1.54	---	1.51	---	2.17	2.75	---
MEAN	---	1.73	1.25	2.62	3.26	1.73	3.23	3.19	2.60	1.89	1.85	2.81
MAX	---	3.19	2.50	3.31	3.55	2.85	4.44	4.65	3.24	2.88	2.75	3.63
MIN	---	.83	.36	1.01	2.83	.93	1.55	1.51	1.68	1.38	1.17	1.91

0208108650 ROANOKE RIVER NR WOODARD, NC--Continued



02081094 ROANOKE RIVER AT JAMESVILLE, NC

LOCATION.--Lat 35°48'49", long 76°53'37", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, at private pier on right bank, 50 ft downstream of boat ramp at end of Water Street, approximately 19.2 mi upstream from mouth, and 0.5 mi northeast of Jamesville.

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

TIDAL-ELEVATION RECORDS

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

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

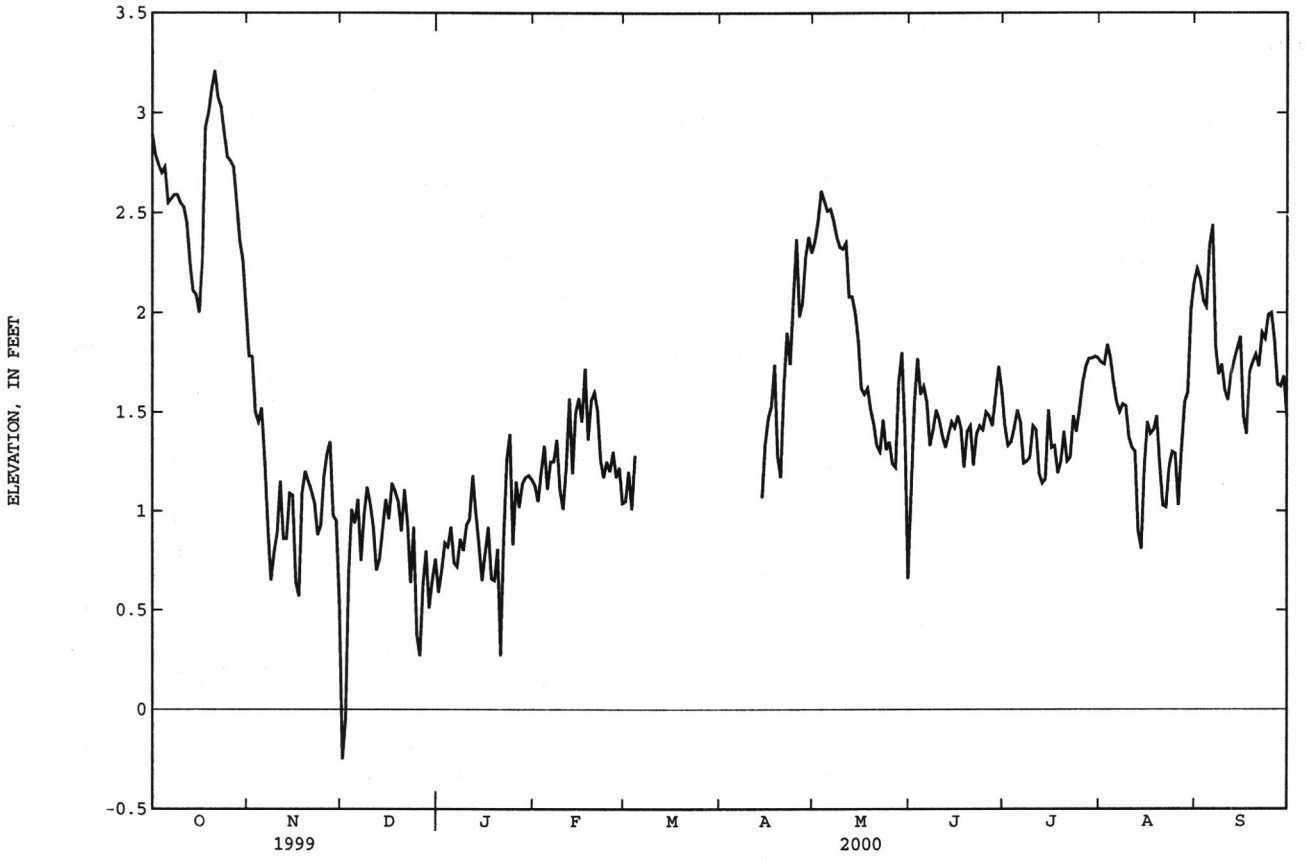
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.87 ft, Sept. 18, 19, 1999; minimum elevation, -1.14 ft, Sept. 1, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.24 ft, Oct. 21; minimum elevation, -0.42 ft, Dec. 2.

ELEVATION, IN 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	2.89	1.78	-.25	.59	1.13	1.05	---	2.36	1.09	1.43	1.75	2.22
2	2.79	1.78	-.05	.70	1.05	1.20	---	2.46	1.54	1.33	1.74	2.17
3	2.74	1.50	.69	.84	1.20	1.01	---	2.61	1.77	1.35	1.84	2.06
4	2.70	1.45	1.01	.82	1.33	1.28	---	2.56	1.59	1.42	1.77	2.03
5	2.73	1.52	.94	.92	1.11	---	---	2.51	1.63	1.51	1.65	2.34
6	2.55	1.26	1.06	.74	1.25	---	---	2.52	1.55	1.45	1.55	2.44
7	2.57	.93	.75	.72	1.25	---	---	2.46	1.33	1.24	1.50	1.83
8	2.59	.65	.98	.86	1.36	---	---	2.38	1.41	1.25	1.54	1.69
9	2.59	.79	1.12	.80	1.11	---	---	2.33	1.51	1.27	1.53	1.74
10	2.55	.89	1.04	.93	1.01	---	---	2.32	1.46	1.43	1.37	1.61
11	2.53	1.15	.92	.96	1.22	---	---	2.35	1.38	1.41	1.32	1.56
12	2.45	.86	.70	1.18	1.57	---	---	2.08	1.32	1.19	1.30	1.69
13	2.25	.86	.76	.99	1.19	---	---	2.08	1.39	1.14	.90	1.76
14	2.11	1.09	.91	.83	1.50	---	1.07	2.00	1.45	1.16	.81	1.82
15	2.09	1.08	1.06	.65	1.57	---	1.34	1.86	1.42	1.51	1.22	1.88
16	2.00	.64	.96	.79	1.45	---	1.47	1.62	1.48	1.32	1.45	1.48
17	2.26	.57	1.14	.92	1.72	---	1.53	1.59	1.42	1.33	1.39	1.39
18	2.93	1.09	1.10	.66	1.36	---	1.74	1.62	1.22	1.19	1.41	1.70
19	3.00	1.20	1.05	.65	1.56	---	1.28	1.51	1.40	1.25	1.48	1.75
20	3.12	1.15	.90	.81	1.60	---	1.17	1.44	1.43	1.40	1.23	1.79
21	3.21	1.10	1.11	.27	1.51	---	1.63	1.33	1.23	1.25	1.03	1.73
22	3.08	1.04	.94	.86	1.26	---	1.90	1.30	1.39	1.27	1.02	1.90
23	3.03	.88	.64	1.26	1.17	---	1.74	1.46	1.43	1.48	1.22	1.87
24	2.90	.93	.92	1.39	1.25	---	2.06	1.31	1.41	1.40	1.30	1.99
25	2.78	1.17	.38	.83	1.20	---	2.37	1.35	1.50	1.52	1.29	2.00
26	2.76	1.29	.27	1.15	1.30	---	1.98	1.24	1.48	1.65	1.03	1.86
27	2.73	1.35	.63	1.02	1.17	---	2.05	1.22	1.43	1.73	1.32	1.64
28	2.55	.98	.80	1.14	1.22	---	2.28	1.65	1.58	1.77	1.55	1.63
29	2.36	.95	.51	1.17	1.04	---	2.38	1.80	1.73	1.77	1.60	1.68
30	2.26	.53	.65	1.18	---	---	2.30	1.40	1.61	1.78	2.02	1.48
31	2.02	---	.76	1.16	---	---	---	.66	---	1.77	2.15	---
MEAN	2.62	1.08	.79	.90	1.30	---	---	1.85	1.45	1.42	1.43	1.82
MAX	3.21	1.78	1.14	1.39	1.72	---	---	2.61	1.77	1.78	2.15	2.44
MIN	2.00	.53	-.25	.27	1.01	---	---	.66	1.09	1.14	.81	1.39

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued



02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1955 to September 1967, March 1998 to current year

pH: March 1998 to current year.

WATER TEMPERATURE: October 1955 to September 1967, March 1998 to current year.

DISSOLVED OXYGEN: March 1998 to current year.

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

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

REMARKS.--Station operated in cooperation with U.S. Fish and Wildlife Service to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	182, April 11, 1999	36, September 19-21, 1999
pH, standard units	7.4, several days during period	5.6, May 3, 1998, September 18, 19, 1999
WATER TEMPERATURE, °C	30.8, August 2, 1999	3.0, January 28, 30, 31, 2000
DISSOLVED OXYGEN, mg/L	14.3, January 8, 1999	2.5, September 1, 1998
DISSOLVED OXYGEN, PERCENT SATURATION,%	112, January 8, 1999	31, September 1, 1998

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	152, March 28	78, October 18, 19
pH, standard units	7.3, March 24, April 8-11, 13, 15	6.3, October 1, 2, 20-22
WATER TEMPERATURE, °C	29.0, August 11	3.0, January 28, 30, 31
DISSOLVED OXYGEN, mg/L	12.2, February 7	3.2, October 11, 12
DISSOLVED OXYGEN, PERCENT SATURATION,%	96, January 3-5	34, October 12

02081094 ROANOKE RIVER AT JAMESVILLE, 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	96	92	94	108	104	106	120	113	116	128	119	124
2	98	95	97	117	106	112	123	119	122	129	128	129
3	100	96	98	118	105	111	122	120	122	128	112	123
4	99	97	98	119	108	113	121	112	117	125	112	118
5	99	96	98	114	106	110	116	109	112	115	111	113
6	101	95	96	114	107	111	118	109	115	116	111	113
7	96	95	96	107	103	105	117	109	114	117	111	114
8	95	95	95	105	102	103	125	109	115	126	113	117
9	95	94	95	106	103	104	128	113	122	124	112	115
10	97	94	96	109	105	107	124	106	110	119	114	116
11	97	96	96	123	104	111	110	106	108	118	113	115
12	101	97	99	127	123	126	113	107	110	118	113	115
13	103	98	100	126	118	121	111	107	108	116	111	114
14	105	99	102	120	118	119	112	107	111	116	111	114
15	108	101	104	121	120	120	120	109	114	116	111	113
16	111	103	106	120	119	120	131	116	121	118	113	115
17	110	98	106	124	118	121	135	128	133	117	113	115
18	98	78	87	124	114	119	128	117	122	116	113	114
19	86	78	82	126	121	124	120	110	114	118	112	115
20	85	82	84	121	107	113	111	109	110	117	113	115
21	82	81	81	109	106	108	113	110	111	117	113	115
22	85	81	84	111	108	109	114	111	112	117	113	115
23	85	84	85	113	111	112	117	111	115	118	114	116
24	86	85	86	112	109	111	129	114	120	118	114	116
25	90	86	88	112	109	110	130	128	129	117	111	114
26	94	89	91	125	112	120	130	127	128	116	111	113
27	97	92	94	125	122	123	130	118	122	112	109	110
28	100	95	98	123	115	119	126	120	123	114	109	110
29	105	97	101	116	111	114	123	116	120	113	109	111
30	106	101	103	120	110	114	119	116	117	113	109	112
31	106	102	103	---	---	---	127	116	123	111	107	109
MONTH	111	78	95	127	102	114	135	106	117	129	107	115

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	112	108	110	123	118	120	151	128	130	108	108	108
2	111	105	108	122	117	119	133	117	128	114	108	110
3	106	101	104	124	118	120	131	116	122	122	114	117
4	105	101	103	125	119	122	129	116	122	126	107	119
5	107	103	105	123	118	120	126	116	118	109	108	108
6	109	104	106	124	118	121	126	116	117	110	109	109
7	110	105	107	123	118	120	125	116	117	111	110	110
8	111	106	108	126	119	123	117	116	117	113	111	112
9	111	106	108	125	119	123	130	116	118	115	113	114
10	112	107	109	127	120	121	141	116	121	115	113	114
11	116	109	113	141	127	138	119	116	117	114	113	113
12	117	113	115	141	130	136	117	115	116	115	114	114
13	117	112	115	149	135	145	115	112	114	116	115	115
14	120	114	117	149	126	141	114	112	113	118	116	117
15	119	112	116	128	120	125	114	112	113	119	117	118
16	116	112	113	130	120	125	112	111	111	120	118	119
17	116	113	114	142	127	134	112	111	112	120	119	119
18	116	112	114	143	117	133	112	110	111	119	118	119
19	118	113	115	146	117	135	111	109	110	119	118	119
20	119	115	116	136	116	126	111	109	110	123	119	121
21	117	113	115	118	114	116	109	108	108	124	121	123
22	118	112	114	---	---	---	110	108	109	131	122	124
23	117	113	115	130	114	122	110	109	109	126	123	123
24	118	113	115	125	109	114	111	110	110	131	123	125
25	121	114	117	128	109	116	112	111	111	129	125	126
26	123	116	119	128	111	116	112	111	111	140	124	126
27	124	117	120	144	112	117	112	110	111	128	123	124
28	123	118	120	152	112	121	110	107	109	132	125	129
29	124	118	120	130	114	119	108	107	108	130	125	128
30	---	---	---	132	115	126	108	107	108	125	120	122
31	---	---	---	136	130	135	---	---	---	129	119	120
MONTH	124	101	113	---	---	---	151	107	114	140	107	118

02081094 ROANOKE RIVER AT JAMESVILLE, 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	125	118	119	114	105	108	111	100	104	114	107	111
2	118	108	114	120	105	111	114	102	108	113	99	107
3	147	107	109	123	110	115	117	102	110	112	99	107
4	116	110	114	126	115	120	114	106	110	111	94	101
5	115	114	114	126	109	117	110	102	106	96	89	92
6	116	114	115	121	108	115	108	99	103	103	89	98
7	117	114	115	119	109	112	108	102	105	103	100	101
8	114	113	114	127	119	125	108	100	104	100	94	96
9	117	113	114	127	113	121	103	89	97	95	93	94
10	122	116	118	126	112	118	102	88	94	105	94	98
11	126	118	120	133	122	129	105	97	101	114	105	111
12	134	115	119	122	109	114	106	95	100	118	110	115
13	128	114	117	136	110	118	104	98	101	118	103	110
14	120	112	113	141	134	137	98	95	96	107	100	103
15	116	111	112	134	128	131	111	97	104	108	101	104
16	114	111	113	129	113	123	109	101	104	104	101	101
17	117	114	115	131	113	125	114	101	106	116	101	110
18	117	113	115	132	117	127	114	111	112	108	100	103
19	118	116	117	127	114	118	113	108	111	111	101	106
20	121	115	117	131	118	127	109	105	107	124	102	115
21	137	113	125	135	116	124	116	109	112	121	100	105
22	113	108	111	136	129	131	124	116	120	106	98	101
23	114	108	110	132	129	132	124	122	123	105	98	100
24	120	107	111	132	116	125	126	124	125	104	96	99
25	118	107	110	125	114	120	126	121	123	100	96	97
26	119	107	111	125	110	116	123	115	119	102	93	97
27	116	107	110	129	115	123	115	106	109	97	91	93
28	115	107	110	122	97	105	125	111	120	102	97	99
29	114	106	109	109	98	101	125	110	118	100	94	98
30	114	105	107	109	97	101	124	110	120	94	91	92
31	---	---	---	111	97	102	121	106	112	---	---	---
MONTH	147	105	114	141	97	119	126	88	109	124	89	102

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	6.3	6.3	6.3	6.4	6.4	6.4	6.8	6.8	6.8	6.9	6.8	6.9
2	6.4	6.3	6.3	6.5	6.4	6.4	6.9	6.8	6.8	6.9	6.9	6.9
3	6.4	6.4	6.4	6.5	6.4	6.5	7.1	6.8	7.0	7.0	6.9	7.0
4	6.4	6.4	6.4	6.5	6.4	6.5	7.1	7.0	7.1	7.0	7.0	7.0
5	6.4	6.4	6.4	6.6	6.5	6.6	7.1	7.0	7.0	7.0	6.9	7.0
6	6.6	6.4	6.5	6.6	6.5	6.6	7.0	7.0	7.0	7.0	6.9	6.9
7	6.6	6.6	6.6	6.6	6.5	6.5	7.0	7.0	7.0	6.9	6.9	6.9
8	6.6	6.6	6.6	6.5	6.4	6.5	7.0	7.0	7.0	7.0	6.9	6.9
9	6.6	6.6	6.6	6.6	6.4	6.5	7.1	7.0	7.1	7.0	6.9	6.9
10	6.6	6.5	6.6	6.5	6.5	6.5	7.1	7.1	7.1	7.0	6.9	6.9
11	6.5	6.5	6.5	6.6	6.5	6.5	7.1	7.1	7.1	6.9	6.8	6.8
12	6.5	6.5	6.5	6.6	6.5	6.6	7.1	7.0	7.0	6.8	6.8	6.8
13	6.5	6.5	6.5	6.6	6.6	6.6	7.0	7.0	7.0	7.0	6.8	6.9
14	6.5	6.5	6.5	6.6	6.6	6.6	7.0	6.9	7.0	7.0	7.0	7.0
15	6.6	6.5	6.5	6.6	6.6	6.6	7.0	6.9	7.0	7.1	7.0	7.0
16	6.6	6.6	6.6	6.6	6.6	6.6	7.0	6.9	7.0	7.1	7.1	7.1
17	6.6	6.6	6.6	6.7	6.6	6.6	7.1	7.0	7.0	7.1	7.1	7.1
18	6.6	6.4	6.5	6.7	6.6	6.6	7.1	7.0	7.0	7.1	7.1	7.1
19	6.4	6.4	6.4	6.8	6.7	6.7	7.0	7.0	7.0	7.1	7.1	7.1
20	6.4	6.3	6.4	6.8	6.8	6.8	7.0	6.9	6.9	7.2	7.1	7.1
21	6.4	6.3	6.3	6.9	6.8	6.8	6.9	6.9	6.9	7.2	7.0	7.1
22	6.4	6.3	6.3	6.9	6.8	6.8	6.9	6.9	6.9	7.1	7.0	7.0
23	6.4	6.4	6.4	6.8	6.8	6.8	6.9	6.9	6.9	7.1	7.0	7.1
24	6.4	6.4	6.4	6.8	6.7	6.7	6.9	6.8	6.9	7.1	7.0	7.1
25	6.4	6.4	6.4	6.8	6.7	6.7	6.9	6.8	6.9	7.1	7.0	7.0
26	6.4	6.4	6.4	6.8	6.8	6.8	6.9	6.9	6.9	7.0	7.0	7.0
27	6.4	6.4	6.4	6.8	6.8	6.8	7.0	6.9	6.9	7.0	7.0	7.0
28	6.5	6.4	6.5	6.8	6.7	6.8	7.0	6.9	6.9	7.0	7.0	7.0
29	6.5	6.5	6.5	6.8	6.7	6.7	7.0	6.9	6.9	7.0	7.0	7.0
30	6.5	6.4	6.5	6.8	6.7	6.8	7.0	6.8	6.9	7.0	7.0	7.0
31	6.4	6.4	6.4	---	---	---	6.8	6.8	6.8	7.0	6.9	6.9
MONTH	6.6	6.3	6.5	6.9	6.4	6.6	7.1	6.8	7.0	7.2	6.8	7.0

02081094 ROANOKE RIVER AT JAMESVILLE, 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	7.0	6.9	7.0	7.1	7.1	7.1	7.0	7.0	7.0	7.0	6.9	6.9
2	7.0	6.9	7.0	7.1	7.1	7.1	7.1	7.0	7.1	6.9	6.9	6.9
3	6.9	6.9	6.9	7.2	7.1	7.1	7.2	7.1	7.1	6.9	6.8	6.9
4	6.9	6.9	6.9	7.2	7.1	7.1	7.2	7.2	7.2	6.9	6.8	6.8
5	6.9	6.9	6.9	7.1	7.1	7.1	7.2	7.2	7.2	6.8	6.8	6.8
6	6.9	6.8	6.9	7.1	6.9	7.0	7.2	7.2	7.2	6.9	6.8	6.8
7	6.8	6.8	6.8	6.9	6.9	6.9	7.2	7.2	7.2	6.8	6.8	6.8
8	6.9	6.8	6.8	6.9	6.9	6.9	7.3	7.2	7.2	6.9	6.8	6.8
9	6.9	6.8	6.9	6.9	6.9	6.9	7.3	7.2	7.2	6.9	6.8	6.9
10	6.9	6.8	6.9	6.9	6.9	6.9	7.3	7.2	7.3	6.9	6.8	6.8
11	7.0	6.8	6.9	6.9	6.8	6.9	7.3	7.2	7.2	6.9	6.8	6.9
12	7.1	6.9	7.0	7.0	6.9	6.9	7.2	7.2	7.2	6.9	6.9	6.9
13	7.1	6.9	7.0	7.0	6.9	6.9	7.3	7.2	7.2	6.9	6.8	6.9
14	7.2	7.0	7.1	7.0	6.9	7.0	7.2	7.2	7.2	6.9	6.8	6.8
15	7.2	7.0	7.1	7.0	7.0	7.0	7.3	7.2	7.2	6.9	6.8	6.9
16	7.1	7.0	7.0	7.0	7.0	7.0	7.2	7.1	7.1	6.9	6.8	6.9
17	7.1	7.1	7.1	7.0	6.9	7.0	7.2	7.1	7.1	6.9	6.9	6.9
18	7.1	7.0	7.0	7.0	6.9	7.0	7.2	7.1	7.1	6.9	6.9	6.9
19	7.1	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.1	6.9	6.9	6.9
20	7.1	7.0	7.0	7.2	7.1	7.1	7.1	7.1	7.1	6.9	6.9	6.9
21	7.0	7.0	7.0	7.2	7.0	7.1	7.1	7.1	7.1	7.0	6.9	6.9
22	7.0	6.9	7.0	---	---	---	7.1	7.1	7.1	7.0	6.9	6.9
23	7.0	7.0	7.0	7.2	7.1	7.1	7.2	7.1	7.1	6.9	6.9	6.9
24	7.0	7.0	7.0	7.3	7.1	7.1	7.2	7.1	7.1	7.1	6.9	7.0
25	7.0	7.0	7.0	7.1	7.1	7.1	7.2	7.1	7.1	7.1	7.0	7.1
26	7.1	7.0	7.0	7.1	7.1	7.1	7.1	7.0	7.1	7.1	7.1	7.1
27	7.1	7.1	7.1	7.1	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.1
28	7.1	7.1	7.1	7.0	7.0	7.0	7.1	7.1	7.1	7.2	7.1	7.1
29	7.1	7.1	7.1	7.0	7.0	7.0	7.1	7.0	7.0	7.2	7.1	7.1
30	---	---	---	7.0	6.9	7.0	7.0	6.9	7.0	7.1	7.1	7.1
31	---	---	---	7.0	7.0	7.0	---	---	---	7.1	7.1	7.1
MONTH	7.2	6.8	7.0	---	---	---	7.3	6.9	7.1	7.2	6.8	6.9

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

02081094 ROANOKE RIVER AT JAMESVILLE, 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	21.2	20.5	20.9	16.3	15.7	15.9	14.0	12.8	13.3	7.2	6.7	6.9
2	21.1	20.4	20.8	16.8	16.3	16.5	12.8	11.3	12.1	8.1	7.2	7.6
3	21.4	20.8	21.1	16.8	16.3	16.5	11.3	10.5	10.7	8.9	8.1	8.4
4	21.6	21.1	21.4	16.3	15.7	16.0	11.0	10.4	10.6	9.5	8.9	9.2
5	21.5	20.7	21.2	15.7	15.3	15.5	11.2	10.8	11.0	9.7	9.5	9.6
6	20.7	20.0	20.3	15.3	14.9	15.1	11.9	11.2	11.5	9.8	9.5	9.7
7	20.2	19.8	20.0	15.1	14.8	15.0	11.9	11.5	11.7	10.0	9.7	9.9
8	19.8	19.3	19.6	14.8	14.4	14.6	11.9	11.4	11.6	9.7	9.4	9.5
9	20.1	19.4	19.7	14.6	14.2	14.4	11.8	11.4	11.6	9.7	9.4	9.5
10	20.4	19.8	20.1	14.9	14.4	14.6	11.6	11.1	11.2	10.0	9.7	9.9
11	20.5	20.0	20.2	15.0	14.6	14.8	11.3	11.0	11.2	10.0	9.8	9.9
12	20.4	20.0	20.2	15.2	14.7	15.0	11.0	10.6	10.8	9.9	9.6	9.8
13	20.2	19.7	20.0	15.2	14.9	15.0	11.2	10.8	11.0	9.9	9.6	9.7
14	20.2	19.8	20.0	15.4	15.0	15.2	11.6	11.2	11.5	9.6	8.8	9.1
15	19.9	19.2	19.5	15.4	15.0	15.2	11.7	11.4	11.6	8.8	8.3	8.4
16	19.9	19.2	19.5	15.1	14.4	14.7	11.6	11.4	11.5	8.3	8.0	8.2
17	20.2	19.8	19.9	14.4	13.7	14.0	11.7	11.1	11.4	8.3	7.5	7.8
18	20.2	19.7	20.0	13.7	12.8	13.2	11.7	11.1	11.5	7.5	6.8	7.1
19	19.9	18.9	19.3	12.8	12.4	12.6	11.1	10.9	11.0	6.9	6.6	6.8
20	19.1	18.4	18.8	13.4	12.5	12.9	11.1	10.9	11.0	6.8	6.2	6.4
21	18.4	17.3	17.8	13.6	13.1	13.4	11.2	11.1	11.2	6.2	5.7	5.8
22	17.3	16.7	17.0	13.9	13.6	13.8	11.2	10.8	11.1	5.7	5.5	5.6
23	17.0	16.3	16.7	14.5	13.9	14.2	10.8	10.3	10.5	5.7	5.3	5.5
24	16.3	15.2	15.6	15.0	14.5	14.6	10.3	9.6	10.0	5.4	4.9	5.2
25	15.2	14.5	14.8	15.7	15.0	15.4	9.6	9.0	9.3	5.2	4.3	4.7
26	15.0	14.3	14.6	16.3	15.6	15.9	9.0	8.2	8.5	4.4	4.0	4.2
27	15.1	14.4	14.8	16.3	16.1	16.2	8.2	7.6	7.8	4.0	3.3	3.7
28	15.2	14.6	14.9	16.1	15.4	15.6	7.6	7.2	7.4	3.3	3.0	3.1
29	15.4	14.6	15.0	15.4	14.8	15.1	7.2	7.0	7.1	3.3	3.1	3.2
30	15.5	14.9	15.2	14.8	14.0	14.4	7.1	6.8	6.9	3.3	3.0	3.2
31	16.0	15.4	15.6	---	---	---	6.9	6.6	6.8	3.5	3.0	3.2
MONTH	21.6	14.3	18.5	16.8	12.4	14.8	14.0	6.6	10.5	10.0	3.0	7.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.7	3.2	3.4	10.4	10.2	10.3	15.6	15.0	15.3	17.2	15.7	16.4
2	3.7	3.3	3.4	10.8	10.3	10.6	15.3	14.6	14.9	17.3	16.6	17.0
3	3.6	3.1	3.3	10.9	10.6	10.8	15.2	14.4	14.8	18.3	16.9	17.5
4	4.0	3.4	3.6	10.8	10.4	10.5	15.3	14.9	15.1	18.8	17.2	17.9
5	4.1	3.7	3.9	10.6	10.3	10.4	15.1	14.3	14.7	19.5	17.8	18.6
6	4.3	3.8	4.1	11.1	10.2	10.6	15.4	14.7	15.1	20.3	18.6	19.3
7	4.6	4.1	4.4	11.3	10.7	11.0	15.8	15.2	15.5	21.2	19.4	20.2
8	4.9	4.4	4.7	12.2	11.1	11.6	15.9	15.3	15.6	21.8	20.0	20.8
9	5.1	4.7	4.9	12.9	12.1	12.4	15.9	15.0	15.4	22.2	20.7	21.4
10	5.6	5.0	5.3	13.7	12.9	13.3	15.7	15.0	15.4	22.6	21.1	21.8
11	5.9	5.5	5.7	15.1	13.7	14.4	16.2	15.2	15.6	22.8	21.6	22.2
12	6.0	5.5	5.7	15.3	14.8	15.1	16.2	15.7	15.9	22.9	21.5	22.2
13	5.6	5.3	5.4	15.3	14.9	15.1	15.9	15.0	15.3	23.9	22.5	23.1
14	5.9	5.5	5.6	15.2	14.6	14.9	15.1	14.8	14.9	23.9	23.2	23.5
15	6.0	5.6	5.8	14.6	13.7	14.1	15.1	14.7	14.9	23.5	22.7	23.1
16	6.5	5.8	6.1	14.8	14.0	14.4	15.2	14.8	15.0	22.9	22.2	22.5
17	6.8	6.3	6.6	15.1	14.8	14.9	16.1	15.1	15.5	22.6	22.1	22.3
18	6.7	6.4	6.5	14.8	13.4	13.9	16.1	15.7	15.8	22.8	22.2	22.5
19	7.2	6.5	6.8	13.9	13.2	13.5	15.7	15.3	15.4	23.4	22.5	22.9
20	7.4	7.0	7.2	13.2	13.0	13.1	16.1	15.3	15.7	24.0	23.1	23.6
21	7.4	6.8	7.1	13.0	12.5	12.8	16.1	15.3	15.7	24.0	23.7	23.9
22	7.6	7.2	7.4	---	---	---	16.6	16.1	16.3	24.1	23.6	23.8
23	7.6	7.3	7.5	12.4	11.8	12.1	16.6	15.8	16.2	24.3	23.5	23.9
24	8.0	7.6	7.8	12.6	11.9	12.2	16.8	15.8	16.3	24.8	23.9	24.3
25	8.6	8.0	8.3	13.2	12.2	12.7	16.6	15.9	16.4	25.0	24.4	24.7
26	9.3	8.6	8.9	13.9	13.0	13.4	16.1	15.4	15.7	24.8	24.1	24.5
27	10.2	9.3	9.7	14.4	13.7	14.0	15.8	15.0	15.3	25.0	24.3	24.7
28	10.7	10.2	10.5	14.8	14.3	14.6	15.1	14.8	15.0	25.0	24.7	24.8
29	10.5	10.1	10.3	15.3	14.6	14.9	15.4	14.4	14.9	24.8	23.2	23.9
30	---	---	---	15.4	15.2	15.3	16.5	14.9	15.6	23.2	22.1	22.6
31	---	---	---	15.9	15.1	15.5	---	---	---	22.1	21.3	21.7
MONTH	10.7	3.1	6.2	---	---	---	16.8	14.3	15.4	25.0	15.7	22.0

02081094 ROANOKE RIVER AT JAMESVILLE, 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	21.8	21.1	21.4	26.5	25.9	26.2	26.9	26.5	26.7	25.7	25.2	25.5
2	22.1	21.5	21.8	26.8	25.9	26.3	27.2	26.6	26.9	26.1	25.6	25.8
3	23.2	22.0	22.5	26.7	26.0	26.3	27.5	26.9	27.2	26.2	25.7	25.9
4	24.0	23.2	23.5	27.1	26.4	26.7	27.3	26.8	27.0	26.3	26.0	26.2
5	23.9	23.3	23.5	27.4	26.9	27.1	27.1	26.5	26.8	26.0	25.1	25.6
6	23.6	22.7	23.1	27.9	27.0	27.4	27.5	26.8	27.2	25.1	24.0	24.8
7	23.4	22.1	22.6	27.9	27.4	27.7	27.8	27.2	27.5	24.0	23.2	23.5
8	22.8	21.7	22.2	28.2	27.7	27.9	28.3	27.5	27.9	23.7	23.1	23.4
9	23.7	22.5	23.1	28.0	27.6	27.7	28.5	27.9	28.1	23.8	23.3	23.6
10	24.3	23.2	23.7	28.1	27.3	27.7	28.8	28.1	28.4	24.0	23.3	23.6
11	24.4	24.0	24.2	28.2	27.8	28.0	29.0	28.3	28.6	24.5	23.5	23.9
12	24.8	24.0	24.5	28.0	27.3	27.5	28.7	28.0	28.4	25.4	24.3	24.8
13	25.6	24.7	25.1	28.0	27.3	27.5	28.3	27.6	27.9	25.3	24.8	25.0
14	26.1	25.4	25.7	28.3	27.8	28.0	27.6	27.1	27.4	25.7	25.0	25.3
15	26.5	25.9	26.1	28.2	27.7	28.0	27.9	27.1	27.5	25.7	25.1	25.4
16	26.5	26.2	26.3	28.1	27.7	27.9	27.8	27.4	27.6	25.4	24.6	24.9
17	26.5	26.1	26.4	28.0	27.4	27.7	27.7	27.2	27.5	24.6	24.0	24.3
18	26.9	26.1	26.5	28.4	27.5	27.9	27.7	27.3	27.4	24.0	23.2	23.4
19	27.7	26.7	27.2	28.9	28.2	28.5	27.5	27.1	27.3	23.2	22.9	23.0
20	27.6	27.2	27.4	28.7	28.2	28.5	27.4	27.0	27.2	23.1	22.7	22.9
21	27.6	27.1	27.4	28.2	28.0	28.0	27.4	27.0	27.2	24.1	23.1	23.6
22	27.6	27.0	27.3	28.5	27.8	28.2	27.2	26.9	27.0	24.0	23.6	23.8
23	27.0	26.4	26.6	28.4	27.8	28.0	27.0	26.6	26.8	23.7	23.4	23.6
24	27.5	26.4	26.9	27.8	27.0	27.3	27.0	26.5	26.8	23.9	23.4	23.7
25	27.4	26.7	27.0	27.0	26.7	26.8	26.9	26.5	26.7	23.8	23.6	23.7
26	27.4	26.6	26.9	26.7	26.2	26.4	27.2	26.3	26.7	23.6	22.5	23.1
27	27.4	26.6	26.9	26.3	25.7	25.9	27.2	26.6	26.9	22.5	21.6	22.0
28	27.2	26.7	26.9	25.8	24.9	25.4	26.8	26.6	26.7	21.6	21.0	21.2
29	26.8	26.3	26.6	26.5	25.8	26.2	26.8	26.4	26.6	21.1	20.5	20.8
30	26.6	26.1	26.3	26.4	26.0	26.2	26.5	25.8	26.2	20.7	20.2	20.4
31	---	---	---	26.8	26.2	26.4	25.8	25.4	25.5	---	---	---
MONTH	27.7	21.1	25.2	28.9	24.9	27.3	29.0	25.4	27.2	26.3	20.2	23.9

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	3.8	3.6	3.7	4.5	3.9	4.2	7.5	7.2	7.4	11.3	11.1	11.2
2	4.4	3.8	4.1	4.6	4.1	4.4	8.2	7.5	7.9	11.1	11.0	11.1
3	4.8	4.4	4.7	---	---	---	9.0	8.2	8.7	11.3	11.1	11.2
4	4.8	4.6	4.7	---	---	---	9.1	8.9	9.0	11.3	11.0	11.1
5	4.8	4.5	4.7	---	---	---	9.0	8.9	8.9	11.1	10.9	11.0
6	4.9	3.5	4.4	---	---	---	8.9	8.4	8.7	10.9	10.5	10.7
7	4.3	4.0	4.2	---	---	---	8.8	8.6	8.7	10.7	10.5	10.6
8	4.3	4.0	4.2	---	---	---	8.9	8.5	8.7	10.6	10.5	10.6
9	4.6	4.1	4.3	---	---	---	9.1	8.9	9.0	10.6	10.3	10.4
10	4.3	3.7	4.1	---	---	---	9.2	8.9	9.1	10.4	10.0	10.2
11	3.8	3.2	3.4	---	---	---	9.2	9.0	9.1	10.1	9.9	10.0
12	3.5	3.2	3.3	---	---	---	9.0	8.8	8.9	10.1	9.5	9.9
13	3.6	3.4	3.5	---	---	---	8.9	8.4	8.7	9.5	9.4	9.4
14	3.7	3.3	3.5	---	---	---	8.8	8.3	8.5	9.8	9.4	9.5
15	4.1	3.5	3.9	---	---	---	8.7	8.2	8.5	10.1	9.8	9.9
16	4.1	3.8	4.0	---	---	---	8.4	8.3	8.3	10.1	10.0	10.1
17	4.8	3.8	4.1	---	---	---	8.6	8.3	8.5	10.5	10.1	10.3
18	4.7	3.7	4.1	7.6	6.8	7.2	8.8	8.6	8.7	10.6	10.4	10.5
19	4.0	3.6	3.8	8.3	7.6	8.0	9.5	8.8	8.9	10.6	10.5	10.6
20	3.7	3.3	3.5	8.4	8.2	8.3	9.1	8.9	8.9	10.9	10.6	10.7
21	3.7	3.4	3.6	8.4	8.2	8.3	8.9	8.7	8.8	10.9	10.8	10.9
22	4.2	3.7	4.1	8.3	7.8	8.1	8.9	8.7	8.8	11.0	10.9	10.9
23	4.7	4.2	4.4	8.0	7.4	7.7	8.8	8.7	8.7	11.2	11.0	11.1
24	5.1	4.6	4.9	7.6	7.2	7.4	9.0	8.7	8.9	11.3	11.2	11.2
25	5.4	4.8	5.1	7.5	7.2	7.3	10.1	8.9	9.4	11.4	11.1	11.3
26	5.3	5.0	5.1	7.3	6.7	7.1	10.9	10.0	10.5	11.5	11.2	11.4
27	5.2	4.9	5.0	7.2	6.9	7.1	11.1	10.9	11.0	11.6	11.5	11.6
28	5.0	4.7	4.9	7.1	6.6	6.9	11.1	11.0	11.1	11.8	11.6	11.7
29	4.8	4.6	4.8	7.0	6.6	6.8	11.4	11.1	11.4	12.0	11.7	11.9
30	4.8	4.5	4.6	7.3	6.9	7.2	11.4	11.2	11.3	12.1	12.0	12.0
31	4.6	4.4	4.5	---	---	---	11.3	11.2	11.3	12.1	11.9	12.0
MONTH	5.4	3.2	4.2	---	---	---	11.4	7.2	9.2	12.1	9.4	10.8

02081094 ROANOKE RIVER AT JAMESVILLE, 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	12.1	11.9	12.0	9.9	9.7	9.8	7.5	7.2	7.3	7.0	6.7	6.9
2	12.0	11.9	12.0	9.8	9.5	9.7	8.2	7.2	7.7	6.8	6.4	6.6
3	12.0	11.8	11.9	9.7	9.4	9.6	8.4	8.1	8.2	6.6	6.3	6.4
4	12.0	11.8	11.9	9.7	9.4	9.6	8.4	8.2	8.3	6.7	6.2	6.4
5	11.9	11.8	11.8	9.7	9.3	9.5	8.5	8.3	8.4	6.7	6.1	6.4
6	11.9	11.7	11.8	9.5	9.2	9.4	8.5	8.3	8.3	6.5	6.1	6.3
7	12.2	11.7	11.8	9.2	9.0	9.1	8.4	8.2	8.3	6.8	5.8	6.2
8	12.0	11.7	11.8	9.0	8.6	8.8	8.5	8.3	8.4	6.7	6.1	6.3
9	11.8	11.6	11.7	8.8	8.3	8.5	8.5	8.3	8.3	6.6	6.0	6.3
10	11.8	11.6	11.7	8.6	8.2	8.4	8.4	8.2	8.3	6.3	5.7	6.0
11	11.7	11.1	11.3	8.2	7.4	7.6	8.4	8.2	8.3	6.4	5.5	5.9
12	11.1	11.0	11.1	7.9	7.4	7.6	8.4	8.1	8.2	6.3	5.6	5.9
13	11.2	10.9	11.0	7.7	7.2	7.4	8.6	8.2	8.4	6.0	5.3	5.6
14	11.3	11.2	11.2	8.3	7.2	7.6	8.6	8.3	8.5	5.7	4.8	5.2
15	11.2	11.0	11.1	8.6	8.2	8.4	8.6	8.4	8.5	5.4	5.0	5.2
16	11.1	11.0	11.0	8.5	8.1	8.3	8.4	8.1	8.2	5.3	5.0	5.1
17	11.1	10.9	11.0	8.3	7.4	7.8	8.3	8.0	8.1	5.3	5.1	5.2
18	11.0	10.7	10.8	8.4	7.4	7.8	8.2	7.9	8.0	5.8	5.2	5.6
19	10.9	10.9	10.9	8.5	7.9	8.1	7.9	7.6	7.7	5.8	5.6	5.7
20	11.0	10.8	10.9	8.7	8.1	8.4	7.8	7.6	7.7	5.7	5.4	5.5
21	10.9	10.7	10.8	8.7	8.4	8.5	7.7	7.6	7.7	5.6	5.1	5.3
22	10.8	10.5	10.6	---	---	---	7.8	7.6	7.7	5.4	5.1	5.2
23	10.8	10.6	10.6	8.6	8.4	8.5	7.9	7.6	7.8	5.3	4.9	5.1
24	10.8	10.7	10.8	8.8	8.5	8.7	7.9	7.6	7.8	5.3	4.9	5.1
25	10.8	10.6	10.7	8.7	8.3	8.5	7.7	7.2	7.5	5.5	5.0	5.2
26	10.6	10.4	10.5	8.5	8.3	8.4	7.6	7.2	7.4	5.7	5.2	5.4
27	10.4	10.0	10.2	8.4	7.9	8.1	7.6	7.4	7.4	5.6	5.3	5.4
28	10.0	9.7	9.9	8.2	7.4	7.8	7.5	7.3	7.4	5.6	5.3	5.4
29	10.0	9.7	9.8	7.8	7.4	7.6	7.5	7.2	7.4	5.9	5.4	5.6
30	---	---	---	7.7	7.0	7.2	7.3	6.9	7.0	5.9	5.6	5.7
31	---	---	---	7.2	6.9	7.0	---	---	---	6.1	5.8	6.0
MONTH	12.2	9.7	11.1	---	---	---	8.6	6.9	7.9	7.0	4.8	5.7

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

02081094 ROANOKE RIVER AT JAMESVILLE, 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	42	40	41	46	40	43	70	68	69	92	91	92
2	49	41	45	47	42	45	74	69	71	93	91	92
3	53	49	51	---	---	---	80	74	78	96	93	95
4	53	51	52	---	---	---	81	80	81	96	95	96
5	53	50	52	---	---	---	81	80	81	96	94	96
6	53	39	48	---	---	---	81	76	79	95	92	93
7	47	43	45	---	---	---	80	77	79	92	91	92
8	47	43	45	---	---	---	80	77	79	92	90	91
9	49	44	46	---	---	---	82	80	81	90	88	90
10	47	40	44	---	---	---	83	80	82	90	88	89
11	41	35	37	---	---	---	83	80	82	89	86	88
12	37	34	36	---	---	---	82	78	79	88	83	86
13	39	37	38	---	---	---	79	75	78	83	82	82
14	41	36	38	---	---	---	79	75	77	82	81	82
15	44	38	42	---	---	---	78	75	77	85	82	84
16	45	41	44	---	---	---	76	75	76	86	84	85
17	52	40	44	---	---	---	78	75	77	86	85	86
18	52	41	45	71	66	68	79	78	79	86	85	85
19	42	38	41	77	71	74	86	79	80	87	86	86
20	39	35	37	79	77	78	80	79	80	87	86	86
21	38	36	37	80	78	79	80	78	79	86	86	86
22	44	38	42	79	75	77	80	78	79	87	85	86
23	48	43	45	77	71	74	78	77	77	88	87	88
24	51	48	50	74	70	72	78	77	78	88	87	87
25	53	49	51	73	71	72	86	77	81	88	85	87
26	52	49	51	72	68	70	92	86	89	88	86	87
27	51	49	50	72	69	71	92	91	91	88	87	87
28	50	47	48	70	65	68	92	91	91	87	86	87
29	48	47	48	69	65	67	93	91	92	90	87	88
30	48	46	47	70	67	69	92	91	92	90	89	90
31	47	45	46	---	---	---	92	91	92	90	89	89
MONTH	53	34	45	---	---	---	93	68	81	96	81	88

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

02081094 ROANOKE RIVER AT JAMESVILLE, 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	69	68	68	62	57	59	67	64	66	69	64	67
2	68	67	67	60	58	59	70	63	66	67	64	66
3	72	67	69	62	58	60	70	67	69	64	56	60
4	72	69	70	64	58	61	71	68	69	62	56	58
5	74	70	72	66	61	63	68	65	66	62	58	60
6	74	70	72	67	61	63	67	64	65	61	59	60
7	75	70	73	67	62	64	66	60	65	59	56	57
8	75	71	73	65	60	62	66	61	64	58	56	57
9	75	71	73	70	61	64	61	57	59	58	57	57
10	78	72	75	69	63	66	61	57	59	61	57	59
11	78	76	77	66	60	63	66	61	63	65	60	63
12	79	76	77	69	63	66	65	60	63	72	64	68
13	79	76	77	70	66	68	61	58	59	72	69	70
14	78	75	76	69	63	66	62	59	60	73	69	71
15	76	73	75	71	66	68	62	58	60	69	66	67
16	75	71	74	73	64	68	66	58	62	68	64	66
17	75	71	73	72	63	67	67	64	66	66	62	64
18	72	69	71	71	60	65	68	58	64	65	61	63
19	72	66	68	73	68	70	69	64	67	68	61	64
20	72	68	69	71	64	67	67	63	65	77	67	72
21	70	65	67	71	67	69	68	65	66	77	71	73
22	72	69	71	70	66	69	68	65	67	75	71	73
23	72	64	67	73	69	71	71	67	69	75	70	73
24	70	66	68	70	67	68	74	68	71	76	66	71
25	70	67	69	68	65	67	73	72	73	68	59	65
26	70	68	69	68	67	67	73	70	72	62	58	61
27	70	68	69	69	67	68	75	70	72	66	60	64
28	70	67	68	69	64	66	74	69	71	66	62	64
29	68	64	66	66	64	65	73	68	70	67	64	66
30	65	60	62	66	64	65	73	70	71	69	64	67
31	---	---	---	67	62	66	72	66	69	---	---	---
MONTH	79	60	71	73	57	65	75	57	66	77	56	65



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

355312076533601 COW CREEK TRANSECT (SITE #1)

LOCATION.--Lat 35°53'44", long 76°55'56", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, approximately 2.1 mi southwest of Woodard on SR 1518.

DRAINAGE AREA.--Indeterminate.

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

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

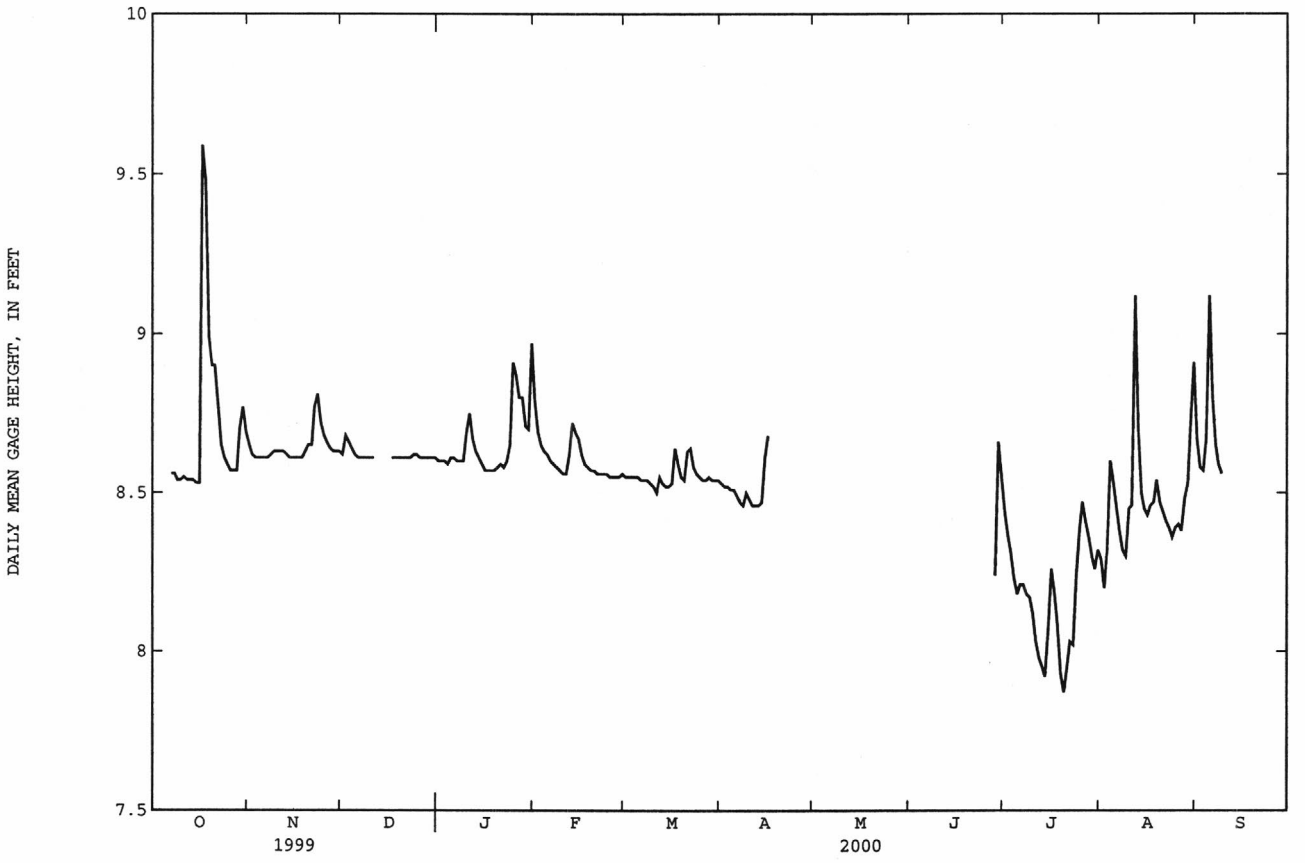
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 9.54 ft, Feb. 4, 1998; minimum recorded gage height, 6.93 ft, Aug. 17, 18, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 10.55 ft, Oct. 17; minimum recorded gage height, undetermined.

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	---	8.65	8.62	8.60	8.79	8.55	8.53	---	---	8.44	8.29	8.67
2	---	8.62	8.68	8.60	8.69	8.55	8.52	---	---	8.37	8.20	8.58
3	---	8.61	8.66	8.60	8.65	8.55	8.52	---	---	8.31	8.32	8.57
4	---	8.61	8.64	8.59	8.63	8.55	8.51	---	---	8.23	8.60	8.67
5	---	8.61	8.62	8.61	8.62	8.55	8.51	---	---	8.18	8.53	9.12
6	---	8.61	8.61	8.61	8.60	8.54	8.49	---	---	8.21	8.45	8.80
7	8.56	8.61	8.61	8.60	8.59	8.54	8.47	---	---	8.21	8.38	8.65
8	8.56	8.62	8.61	8.60	8.58	8.54	8.46	---	---	8.18	8.32	8.59
9	8.54	8.63	8.61	8.60	8.57	8.53	8.50	---	---	8.17	8.30	8.56
10	8.54	8.63	8.61	8.69	8.56	8.52	8.48	---	---	8.12	8.45	---
11	8.55	8.63	8.61	8.75	8.56	8.50	8.46	---	---	8.03	8.46	---
12	8.54	8.63	---	8.67	8.62	8.55	8.46	---	---	7.98	9.12	---
13	8.54	8.62	---	8.63	8.72	8.53	8.46	---	---	7.95	8.70	---
14	8.54	8.61	---	8.61	8.69	8.52	8.47	---	---	7.92	8.50	---
15	8.53	8.61	---	8.59	8.67	8.52	8.61	---	---	8.07	8.45	---
16	8.53	8.61	---	8.57	8.62	8.53	8.68	---	---	8.26	8.43	---
17	9.59	8.61	8.61	8.57	8.59	8.64	---	---	---	8.18	8.46	---
18	9.48	8.61	8.61	8.57	8.58	8.59	---	---	---	8.08	8.47	---
19	8.99	8.63	8.61	8.57	8.57	8.55	---	---	---	7.93	8.54	---
20	8.90	8.65	8.61	8.58	8.57	8.54	---	---	---	7.87	8.47	---
21	8.90	8.65	8.61	8.59	8.56	8.63	---	---	---	7.95	8.44	---
22	8.78	8.77	8.61	8.58	8.56	8.64	---	---	---	8.03	8.41	---
23	8.65	8.81	8.61	8.60	8.56	8.58	---	---	---	8.02	8.39	---
24	8.61	8.72	8.62	8.65	8.56	8.56	---	---	---	8.24	8.36	---
25	8.59	8.68	8.62	8.91	8.55	8.55	---	---	---	8.38	8.39	---
26	8.57	8.66	8.61	8.87	8.55	8.54	---	---	---	8.47	8.40	---
27	8.57	8.64	8.61	8.80	8.55	8.54	---	---	---	8.41	8.38	---
28	8.57	8.63	8.61	8.80	8.55	8.55	---	---	8.24	8.36	8.48	---
29	8.70	8.63	8.61	8.71	8.56	8.54	---	---	8.66	8.30	8.53	---
30	8.77	8.63	8.61	8.70	---	8.54	---	---	8.55	8.26	8.74	---
31	8.69	---	8.61	8.97	---	8.54	---	---	---	8.32	8.91	---
MEAN	---	8.64	---	8.66	8.60	8.55	---	---	---	8.18	8.48	---
MAX	---	8.81	---	8.97	8.79	8.64	---	---	---	8.47	9.12	---
MIN	---	8.61	---	8.57	8.55	8.50	---	---	---	7.87	8.20	---

355312076533601 COW CREEK TRANSECT (SITE #1)--Continued



355205076522501 COW CREEK TRANSECT (SITE #2)

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

DRAINAGE AREA.--Indeterminate.

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

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

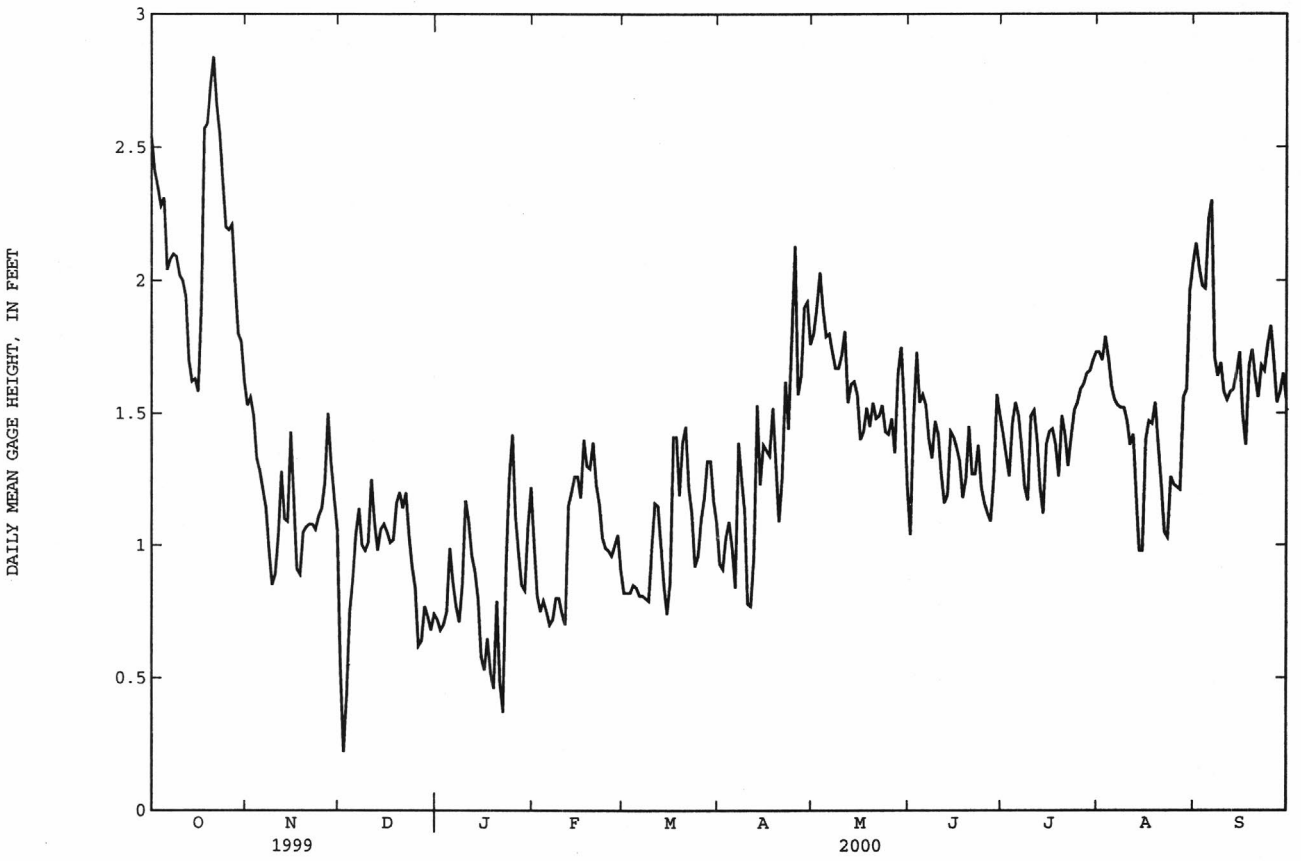
EXTREMES FOR PERIOD OF RECORD.--Maximum, 5.76 ft, Sept. 19, 1999; minimum, 0.11 ft, Sept. 2, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 2.86 ft, Oct. 21; minimum elevation, 0.19 ft, Dec. 2.

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	2.54	1.53	.55	.72	1.00	.82	.93	1.80	1.04	1.42	1.73	2.14
2	2.41	1.56	.22	.68	.81	.82	.91	1.90	1.48	1.34	1.70	2.05
3	2.35	1.49	.43	.70	.75	.82	1.03	2.03	1.73	1.26	1.79	1.98
4	2.28	1.33	.75	.75	.79	.85	1.09	1.89	1.54	1.46	1.71	1.97
5	2.31	1.28	.87	.99	.75	.84	.99	1.79	1.57	1.54	1.60	2.23
6	2.04	1.21	1.04	.86	.70	.81	.84	1.80	1.53	1.49	1.55	2.30
7	2.08	1.14	1.14	.77	.72	.81	1.39	1.73	1.40	1.37	1.53	1.71
8	2.10	.98	1.00	.71	.80	.80	1.25	1.67	1.33	1.22	1.52	1.64
9	2.09	.85	.98	.85	.80	.79	1.13	1.67	1.47	1.17	1.52	1.69
10	2.02	.89	1.01	1.17	.74	.99	.78	1.72	1.42	1.49	1.47	1.58
11	2.00	1.04	1.25	1.09	.70	1.16	.77	1.81	1.27	1.51	1.38	1.55
12	1.94	1.28	1.09	.96	1.15	1.15	.96	1.54	1.16	1.40	1.42	1.58
13	1.70	1.10	.98	.90	1.20	1.00	1.53	1.61	1.19	1.22	1.19	1.59
14	1.62	1.09	1.06	.80	1.26	.85	1.23	1.62	1.43	1.12	.98	1.65
15	1.63	1.43	1.08	.58	1.26	.74	1.38	1.57	1.41	1.38	.98	1.73
16	1.58	1.18	1.05	.53	1.18	.86	1.36	1.40	1.37	1.43	1.40	1.49
17	1.89	.91	1.01	.65	1.40	1.41	1.34	1.43	1.32	1.44	1.47	1.38
18	2.57	.89	1.02	.52	1.30	1.41	1.52	1.52	1.18	1.38	1.46	1.68
19	2.59	1.05	1.16	.46	1.29	1.19	1.31	1.45	1.25	1.26	1.54	1.74
20	2.73	1.07	1.20	.79	1.39	1.39	1.09	1.54	1.45	1.49	1.38	1.64
21	2.84	1.08	1.14	.48	1.23	1.45	1.26	1.48	1.27	1.42	1.23	1.56
22	2.66	1.08	1.20	.37	1.16	1.22	1.62	1.49	1.27	1.30	1.05	1.68
23	2.55	1.06	1.04	.92	1.03	1.12	1.44	1.53	1.38	1.41	1.03	1.66
24	2.37	1.11	.92	1.25	.99	.92	1.79	1.43	1.22	1.51	1.26	1.76
25	2.20	1.14	.84	1.42	.98	.96	2.13	1.42	1.16	1.54	1.23	1.83
26	2.19	1.24	.62	1.11	.96	1.10	1.57	1.48	1.12	1.59	1.22	1.69
27	2.21	1.50	.64	.97	1.00	1.18	1.64	1.35	1.09	1.61	1.21	1.54
28	1.99	1.31	.77	.85	1.04	1.32	1.90	1.65	1.26	1.65	1.56	1.58
29	1.80	1.18	.73	.83	.90	1.32	1.92	1.75	1.57	1.66	1.59	1.65
30	1.77	1.06	.68	1.07	---	1.17	1.76	1.53	1.49	1.70	1.96	1.55
31	1.62	---	.74	1.22	---	1.09	---	1.23	---	1.73	2.06	---
MEAN	2.15	1.17	.91	.84	1.01	1.04	1.33	1.61	1.35	1.44	1.44	1.73
MAX	2.84	1.56	1.25	1.42	1.40	1.45	2.13	2.03	1.73	1.73	2.06	2.30
MIN	1.58	.85	.22	.37	.70	.74	.77	1.23	1.04	1.12	.98	1.38

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



355149076504001 COW CREEK TRANSECT (SITE #3)

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

DRAINAGE AREA.--Indeterminate.

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

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

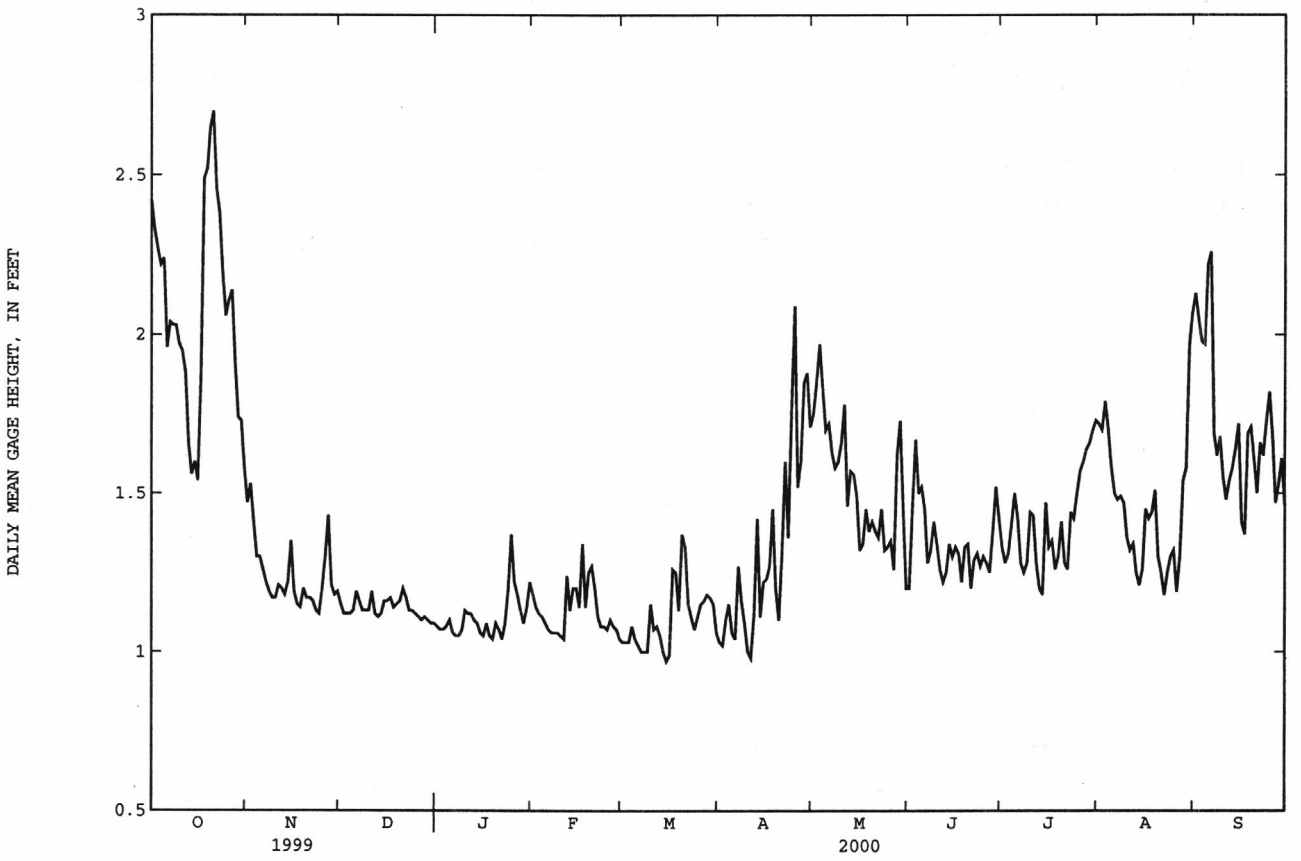
EXTREMES FOR PERIOD OF RECORD.--Maximum, 5.40 ft, Sept. 18, 19, 1999; minimum, 0.90 ft, Aug. 7, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum, 2.76 ft, Oct. 20, 21; minimum elevation, 0.96 ft, Mar. 15, 16, Apr. 11, 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	2.42	1.47	1.15	1.08	1.18	1.03	1.03	1.75	1.20	1.33	1.72	2.13
2	2.33	1.53	1.12	1.07	1.14	1.03	1.02	1.85	1.46	1.28	1.70	2.05
3	2.27	1.41	1.12	1.07	1.12	1.03	1.10	1.97	1.67	1.31	1.79	1.98
4	2.22	1.30	1.12	1.08	1.11	1.08	1.15	1.83	1.50	1.40	1.70	1.97
5	2.24	1.30	1.13	1.10	1.09	1.04	1.06	1.70	1.52	1.50	1.58	2.22
6	1.96	1.26	1.19	1.06	1.07	1.02	1.04	1.72	1.45	1.42	1.50	2.26
7	2.04	1.22	1.16	1.05	1.06	1.00	1.27	1.63	1.28	1.28	1.48	1.69
8	2.03	1.19	1.13	1.05	1.06	1.00	1.16	1.58	1.32	1.25	1.49	1.62
9	2.03	1.17	1.13	1.07	1.06	1.00	1.09	1.60	1.41	1.28	1.47	1.68
10	1.97	1.17	1.13	1.13	1.05	1.15	1.00	1.66	1.34	1.44	1.36	1.55
11	1.95	1.21	1.19	1.12	1.04	1.07	.98	1.78	1.26	1.43	1.32	1.48
12	1.88	1.20	1.12	1.12	1.24	1.08	1.12	1.46	1.22	1.28	1.34	1.54
13	1.66	1.18	1.11	1.10	1.13	1.05	1.42	1.57	1.25	1.20	1.25	1.58
14	1.56	1.22	1.12	1.09	1.20	1.00	1.11	1.56	1.34	1.18	1.21	1.64
15	1.60	1.35	1.16	1.06	1.20	.97	1.22	1.49	1.30	1.47	1.26	1.72
16	1.54	1.19	1.16	1.05	1.14	.99	1.23	1.32	1.33	1.33	1.45	1.41
17	1.87	1.15	1.17	1.09	1.34	1.26	1.27	1.34	1.31	1.35	1.42	1.37
18	2.49	1.14	1.14	1.05	1.14	1.25	1.45	1.45	1.22	1.26	1.44	1.69
19	2.52	1.20	1.15	1.04	1.25	1.13	1.20	1.38	1.33	1.30	1.51	1.71
20	2.65	1.17	1.16	1.09	1.27	1.37	1.10	1.41	1.34	1.41	1.30	1.61
21	2.70	1.17	1.20	1.07	1.20	1.33	1.31	1.38	1.20	1.28	1.25	1.50
22	2.46	1.16	1.17	1.04	1.11	1.15	1.60	1.36	1.29	1.26	1.18	1.66
23	2.38	1.13	1.13	1.09	1.08	1.11	1.36	1.45	1.31	1.44	1.25	1.62
24	2.19	1.12	1.13	1.20	1.08	1.07	1.76	1.32	1.27	1.42	1.30	1.73
25	2.06	1.20	1.12	1.37	1.07	1.11	2.09	1.33	1.30	1.50	1.32	1.82
26	2.11	1.30	1.11	1.22	1.10	1.15	1.52	1.35	1.28	1.57	1.19	1.68
27	2.14	1.43	1.10	1.18	1.08	1.16	1.60	1.26	1.25	1.60	1.30	1.47
28	1.91	1.21	1.11	1.13	1.07	1.18	1.85	1.62	1.38	1.64	1.54	1.53
29	1.74	1.18	1.10	1.09	1.04	1.17	1.88	1.73	1.52	1.66	1.58	1.61
30	1.73	1.19	1.09	1.14	---	1.15	1.71	1.45	1.42	1.70	1.97	1.46
31	1.58	---	1.09	1.22	---	1.06	---	1.20	---	1.73	2.07	---
MEAN	2.07	1.24	1.14	1.11	1.13	1.10	1.32	1.53	1.34	1.40	1.46	1.70
MAX	2.70	1.53	1.20	1.37	1.34	1.37	2.09	1.97	1.67	1.73	2.07	2.26
MIN	1.54	1.12	1.09	1.04	1.04	.97	.98	1.20	1.20	1.18	1.18	1.37

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



355140076484201 COW CREEK TRANSECT (SITE #4)

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

DRAINAGE AREA.--Indeterminate.

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

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

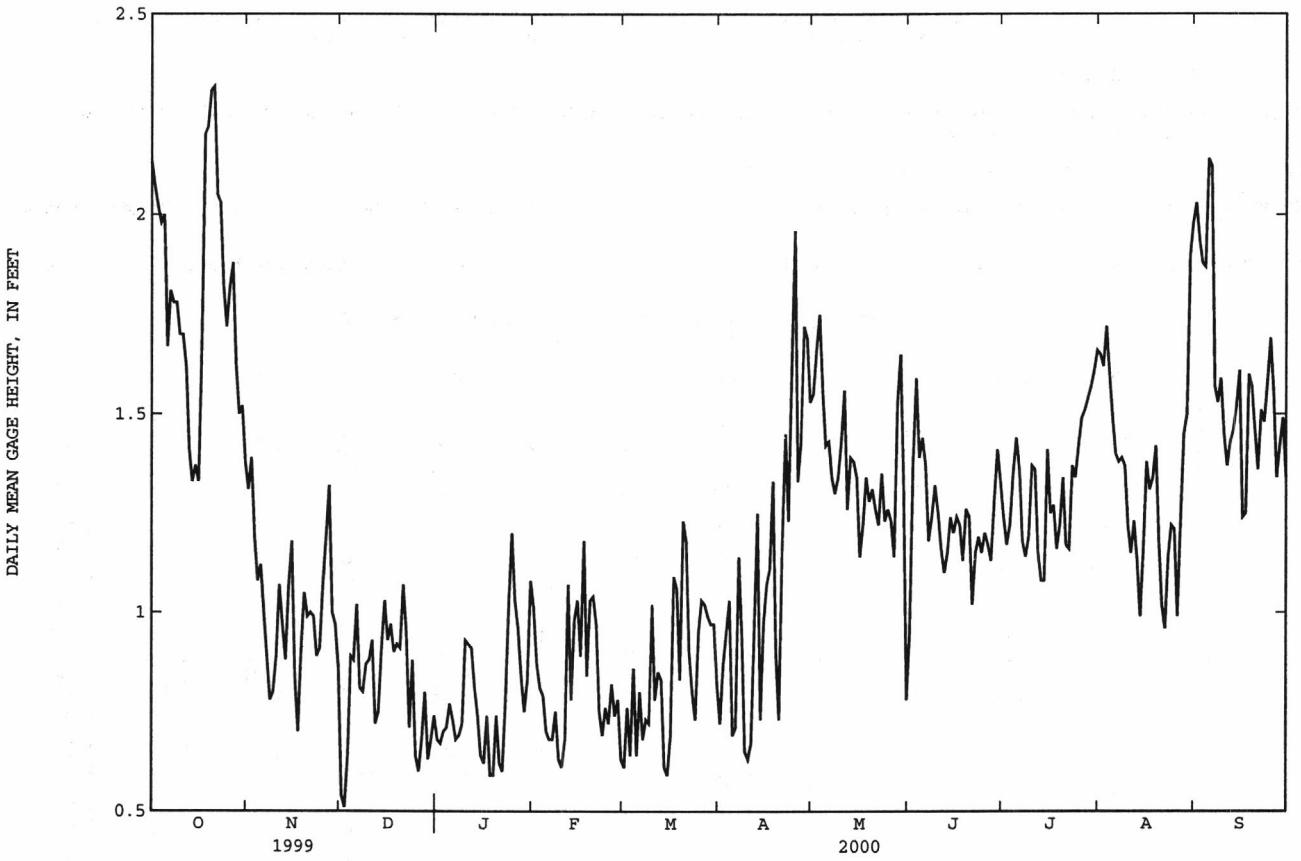
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 4.67 ft, Sept. 16, 1999; minimum recorded gage height, 0.41 ft, Oct. 23, 24, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 2.41 ft, Oct. 20, 21; minimum recorded gage height, 0.50 ft, Dec. 2, 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	2.13	1.31	.54	.68	1.01	.61	.72	1.55	.95	1.24	1.65	2.03
2	2.07	1.39	.51	.67	.87	.76	.87	1.66	1.38	1.17	1.62	1.94
3	2.02	1.19	.64	.70	.81	.64	.95	1.75	1.59	1.22	1.72	1.88
4	1.98	1.08	.89	.71	.79	.86	1.03	1.56	1.39	1.35	1.60	1.87
5	2.00	1.12	.88	.77	.70	.64	.69	1.42	1.44	1.44	1.49	2.14
6	1.67	1.00	1.02	.73	.68	.80	.71	1.43	1.37	1.36	1.40	2.12
7	1.81	.89	.81	.68	.68	.68	1.14	1.34	1.18	1.18	1.38	1.57
8	1.78	.78	.80	.69	.75	.73	.95	1.30	1.24	1.14	1.39	1.53
9	1.78	.80	.87	.72	.63	.72	.65	1.34	1.32	1.19	1.37	1.59
10	1.70	.89	.88	.93	.61	1.02	.63	1.43	1.25	1.37	1.22	1.45
11	1.70	1.07	.93	.92	.68	.78	.67	1.56	1.16	1.36	1.15	1.37
12	1.62	.97	.72	.91	1.07	.85	.95	1.26	1.10	1.15	1.23	1.43
13	1.41	.88	.75	.81	.78	.83	1.25	1.39	1.15	1.08	1.13	1.46
14	1.33	1.07	.91	.74	.98	.61	.73	1.38	1.24	1.08	.99	1.52
15	1.37	1.18	1.03	.64	1.03	.59	.97	1.34	1.20	1.41	1.16	1.61
16	1.33	.84	.93	.62	.89	.69	1.07	1.14	1.24	1.25	1.38	1.24
17	1.68	.70	.97	.74	1.18	1.09	1.11	1.22	1.22	1.27	1.31	1.25
18	2.20	.91	.90	.59	.84	1.06	1.33	1.34	1.13	1.16	1.34	1.60
19	2.22	1.05	.92	.59	1.03	.83	.90	1.28	1.26	1.22	1.42	1.57
20	2.31	.99	.91	.74	1.04	1.23	.73	1.31	1.24	1.34	1.18	1.46
21	2.32	1.00	1.07	.62	.97	1.18	1.17	1.26	1.02	1.17	1.02	1.36
22	2.05	.99	.95	.60	.75	.90	1.45	1.22	1.15	1.16	.96	1.51
23	2.03	.89	.71	.78	.69	.80	1.23	1.35	1.19	1.37	1.14	1.48
24	1.82	.91	.88	1.02	.76	.73	1.62	1.23	1.15	1.34	1.22	1.58
25	1.72	1.07	.64	1.20	.72	.95	1.96	1.26	1.20	1.42	1.21	1.69
26	1.82	1.19	.60	1.03	.82	1.03	1.33	1.23	1.17	1.49	.99	1.55
27	1.88	1.32	.68	.96	.74	1.02	1.43	1.14	1.13	1.51	1.23	1.34
28	1.62	1.00	.80	.84	.78	.99	1.72	1.53	1.28	1.54	1.45	1.42
29	1.50	.97	.63	.75	.63	.97	1.69	1.65	1.41	1.57	1.50	1.49
30	1.52	.86	.68	.83	---	.97	1.53	1.32	1.33	1.61	1.90	1.34
31	1.38	---	.74	1.08	---	.82	---	.78	---	1.66	1.98	---
MEAN	1.80	1.01	.81	.78	.82	.85	1.11	1.35	1.24	1.32	1.35	1.58
MAX	2.32	1.39	1.07	1.20	1.18	1.23	1.96	1.75	1.59	1.66	1.98	2.14
MIN	1.33	.70	.51	.59	.61	.59	.63	.78	.95	1.08	.96	1.24

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



0208111310 CASHIE RIVER AT SECONDARY ROAD 1257 NEAR WINDSOR, NC

LOCATION.--Lat 36°02'51", long 76°59'07", Bertie County, Hydrologic Unit 03010107, at downstream side of bridge on Secondary Road 1257, 2.0 mi upstream from State Highway 13 near Windsor.

DRAINAGE AREA.--108 mi^2.

PERIOD OF RECORD.--1987 to current year.

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

REMARKS.--Records fair except those for estimated daily discharges and those below 10 ft^3/s, which are poor. Maximum discharge for period of record, from rating curve extended above 5,500 ft^3/s on basis of logarithmic plotting. Maximum gage height for period of record, from flood mark. Periods of no flow occur periodically. Minimum discharge for the current water year also occurred June 28.

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	201	66	36	32	e1200	70	57	168	270	402	7.5	74
2	203	65	37	32	e950	64	56	132	202	421	6.7	162
3	216	73	36	29	e700	58	52	101	123	304	5.6	240
4	210	91	35	26	497	52	48	75	74	166	35	209
5	180	91	33	32	357	48	41	59	53	83	33	543
6	146	93	33	35	279	45	34	45	41	58	48	602
7	115	93	34	39	224	41	29	33	30	27	64	502
8	90	84	34	45	189	37	24	24	21	14	52	405
9	72	76	39	56	161	33	26	17	14	8.4	28	259
10	58	68	41	81	140	31	25	12	9.0	5.2	18	160
11	49	60	44	161	123	27	23	9.5	5.6	3.3	17	102
12	40	51	44	230	115	36	20	8.0	3.9	2.5	42	68
13	31	46	44	238	122	48	17	6.7	2.7	1.8	33	47
14	23	41	49	194	148	45	17	5.6	1.7	1.5	18	31
15	20	37	53	138	181	40	30	4.2	1.2	4.1	15	20
16	17	34	58	100	204	39	95	3.8	.83	2.6	9.9	14
17	e650	31	60	77	191	58	169	3.2	.54	1.3	5.9	18
18	e4000	30	62	66	170	80	220	2.3	.35	.93	4.9	22
19	e4600	27	58	60	169	92	238	.95	.97	.59	5.1	26
20	2950	26	55	59	182	85	231	.87	18	3.3	16	20
21	1510	24	50	61	178	90	206	16	43	2.0	14	14
22	1010	23	48	61	165	125	161	9.7	12	1.4	11	10
23	765	21	47	64	148	142	123	5.9	5.1	.96	7.2	15
24	554	22	45	75	129	145	94	4.2	2.7	2.5	5.1	31
25	393	26	42	181	111	130	79	2.9	1.5	3.7	3.6	47
26	279	30	41	465	97	107	79	2.0	.84	27	2.6	298
27	202	38	38	e500	86	87	77	1.3	.23	52	2.2	711
28	152	41	37	e350	81	75	80	15	2.4	20	3.2	630
29	115	41	35	e250	75	67	144	142	169	9.1	11	413
30	92	36	32	e300	---	60	210	250	447	7.2	59	266
31	77	---	32	e1500	---	56	---	270	---	8.1	61	---
TOTAL	19020	1485	1332	5537	7372	2113	2705	1430.12	1556.56	1644.48	644.5	5959
MEAN	614	49.5	43.0	179	254	68.2	90.2	46.1	51.9	53.0	20.8	199
MAX	4600	93	62	1500	1200	145	238	270	447	421	64	711
MIN	17	21	32	26	75	27	17	.87	.23	.59	2.2	10
CFSM	5.68	.46	.40	1.65	2.35	.63	.83	.43	.48	.49	.19	1.84
IN.	6.55	.51	.46	1.91	2.54	.73	.93	.49	.54	.57	.22	2.05

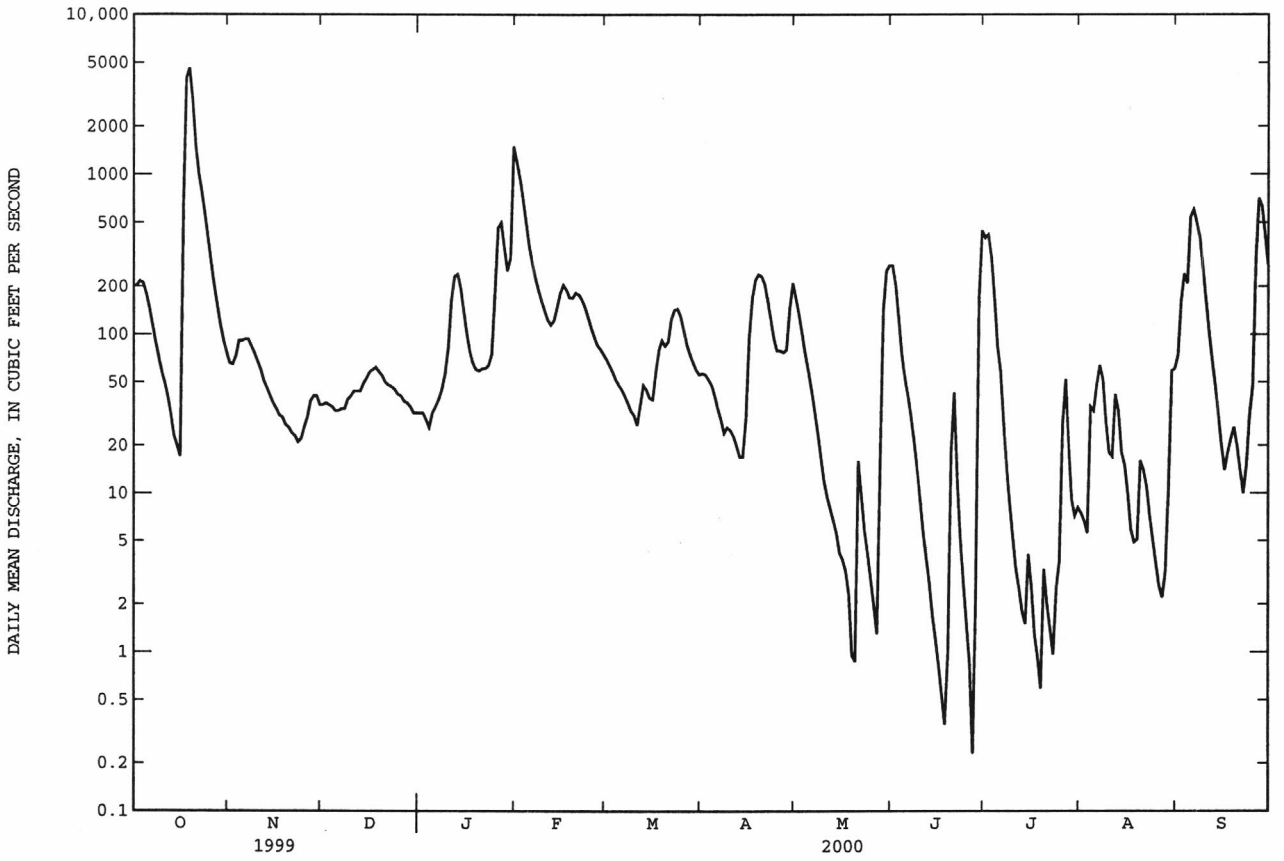
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	81.6	39.8	83.1	204	217	246	130	60.2	44.5	30.1	79.4	184
MAX	614	158	254	509	651	663	326	321	129	102	488	1838
(WY)	2000	1993	1990	1993	1998	1989	1989	1989	1992	1991	1992	1999
MIN	.000	.065	1.70	52.6	64.1	58.3	5.25	1.07	.010	.000	.009	.000
(WY)	1995	1995	1995	1995	1991	1988	1995	1994	1994	1994	1993	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	95281.88		50798.66			
ANNUAL MEAN	261		139		118	
HIGHEST ANNUAL MEAN					208	1999
LOWEST ANNUAL MEAN					57.1	1988
HIGHEST DAILY MEAN	14500	Sep 17	4600	Oct 19	14500	Sep 17 1999
LOWEST DAILY MEAN	.01	Jun 9	.23	Jun 27	.00	Jul 30 1987
ANNUAL SEVEN-DAY MINIMUM	.01	Jun 7	1.2	Jun 13	.00	Oct 8 1987
INSTANTANEOUS PEAK FLOW			4730	Oct 19	15700*	Sep 16 1999
INSTANTANEOUS PEAK STAGE			12.52	Oct 19	18.52*	Sep 16 1999
INSTANTANEOUS LOW FLOW			.18*	Jun 27	.00*	Jul 29 1987
ANNUAL RUNOFF (CFSM)	2.42		1.29		1.09	
ANNUAL RUNOFF (INCHES)	32.82		17.50		14.88	
10 PERCENT EXCEEDS	388		261		282	
50 PERCENT EXCEEDS	44		48		29	
90 PERCENT EXCEEDS	.08		3.7		.06	

e Estimated.
* See REMARKS.

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



0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC

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

DRAINAGE AREA.--293 mi^2.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.65 ft, Sept. 17, 18, 1999; minimum elevation, -1.08 ft, Jan. 25, 2000.

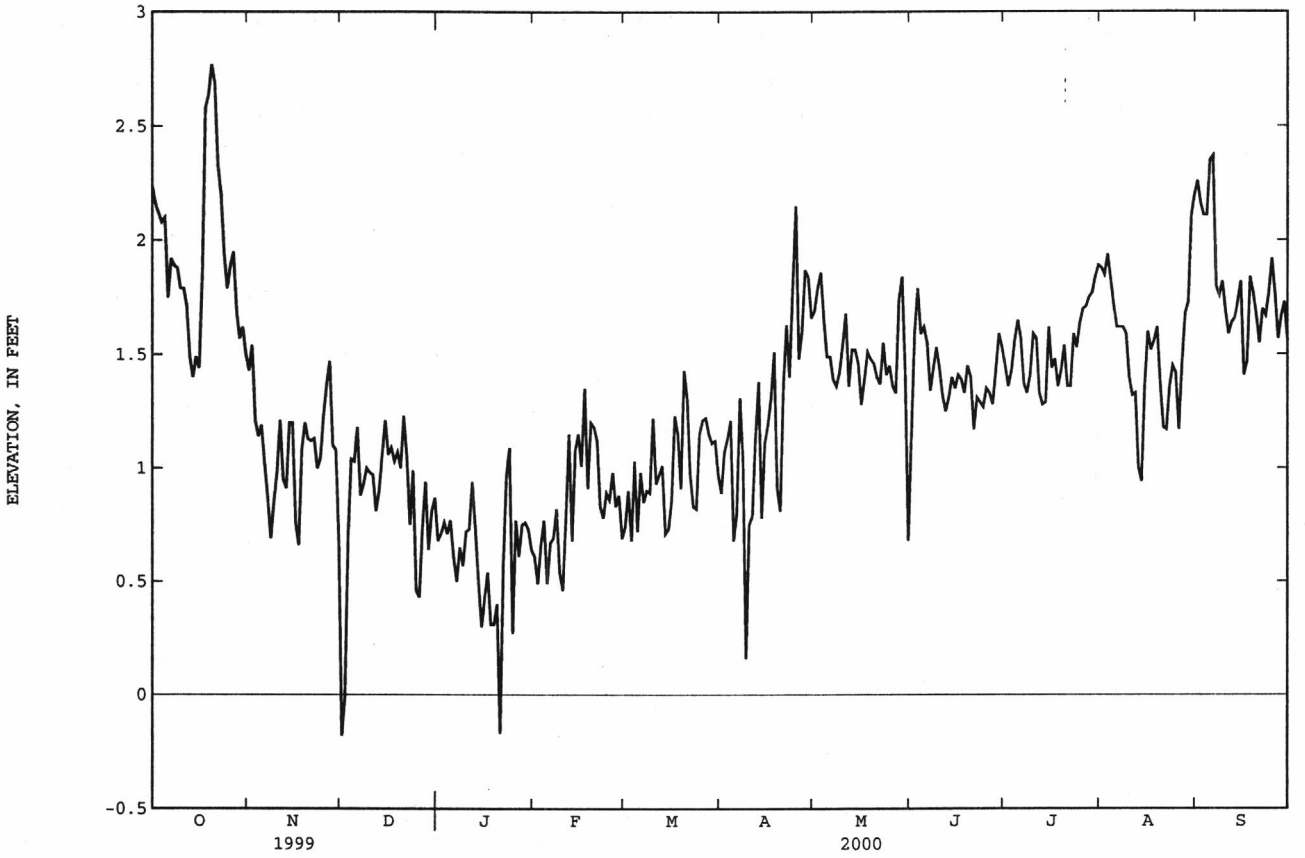
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.67 ft, Oct. 20, 21; minimum elevation, -1.08 ft, Jan. 25.

ELEVATION, IN 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	2.23	1.28	-.33	.53	.46	.59	.74	1.54	.99	1.30	1.73	2.11
2	2.12	1.39	-.16	.56	.34	.75	.92	1.64	1.44	1.21	1.70	2.01
3	2.05	1.06	.55	.61	.51	.53	.98	1.71	1.64	1.28	1.79	1.96
4	1.99	.99	.89	.56	.62	.88	1.06	1.50	1.44	1.41	1.68	1.96
5	1.98	1.04	.88	.62	.34	.57	.52	1.34	1.47	1.50	1.56	2.20
6	1.60	.87	1.03	.46	.52	.83	.65	1.34	1.40	1.42	1.47	2.22
7	1.77	.72	.73	.35	.54	.70	1.16	1.24	1.19	1.22	1.47	1.65
8	1.74	.54	.78	.50	.67	.75	.89	1.21	1.29	1.18	1.47	1.61
9	1.73	.70	.85	.42	.39	.74	.01	1.27	1.38	1.26	1.44	1.67
10	1.64	.83	.83	.57	.31	1.07	.60	1.39	1.29	1.44	1.25	1.54
11	1.64	1.06	.82	.58	.63	.78	.64	1.53	1.17	1.42	1.17	1.44
12	1.56	.80	.66	.79	1.00	.82	.98	1.21	1.10	1.18	1.18	1.49
13	1.34	.76	.75	.58	.53	.86	1.23	1.37	1.16	1.13	.85	1.51
14	1.25	1.05	.91	.34	.93	.56	.63	1.37	1.25	1.14	.79	1.58
15	1.34	1.05	1.06	.15	1.00	.58	.96	1.31	1.20	1.47	1.22	1.67
16	1.29	.61	.91	.28	.86	.71	1.04	1.13	1.26	1.29	1.45	1.26
17	1.70	.51	.94	.39	1.20	1.08	1.16	1.24	1.24	1.33	1.37	1.32
18	2.43	.93	.88	.16	.76	1.00	1.36	1.36	1.18	1.21	1.41	1.69
19	2.49	1.05	.92	.16	1.05	.76	.76	1.33	1.30	1.28	1.47	1.62
20	2.62	.98	.85	.25	1.03	1.28	.66	1.31	1.25	1.39	1.22	1.52
21	2.54	.97	1.08	-.32	.97	1.16	1.22	1.25	1.02	1.21	1.03	1.40
22	2.18	.98	.90	.43	.68	.82	1.48	1.22	1.16	1.21	1.02	1.55
23	2.05	.85	.60	.82	.63	.68	1.25	1.40	1.14	1.44	1.21	1.52
24	1.79	.89	.84	.94	.74	.67	1.64	1.26	1.12	1.38	1.30	1.62
25	1.64	1.08	.31	.12	.71	1.00	2.00	1.30	1.20	1.49	1.27	1.77
26	1.74	1.22	.28	.62	.83	1.06	1.33	1.21	1.18	1.55	1.02	1.62
27	1.80	1.32	.59	.46	.68	1.07	1.45	1.18	1.13	1.56	1.31	1.42
28	1.54	.95	.79	.60	.73	1.00	1.72	1.59	1.28	1.60	1.53	1.52
29	1.42	.93	.49	.61	.54	.96	1.69	1.69	1.44	1.62	1.58	1.58
30	1.47	.53	.66	.58	---	.97	1.51	1.28	1.38	1.69	1.96	1.41
31	1.35	---	.72	.49	---	.82	---	.53	---	1.74	2.05	---
MEAN	1.81	.93	.71	.46	.70	.84	1.07	1.33	1.26	1.37	1.39	1.65
MAX	2.62	1.39	1.08	.94	1.20	1.28	2.00	1.71	1.64	1.74	2.05	2.22
MIN	1.25	.51	-.33	-.32	.31	.53	.01	.53	.99	1.13	.79	1.26

Note: Negative numbers indicate water-surface elevations below sea level.

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



0208114055 ROANOKE RIVER AT PLYMOUTH, NC

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

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

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

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

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

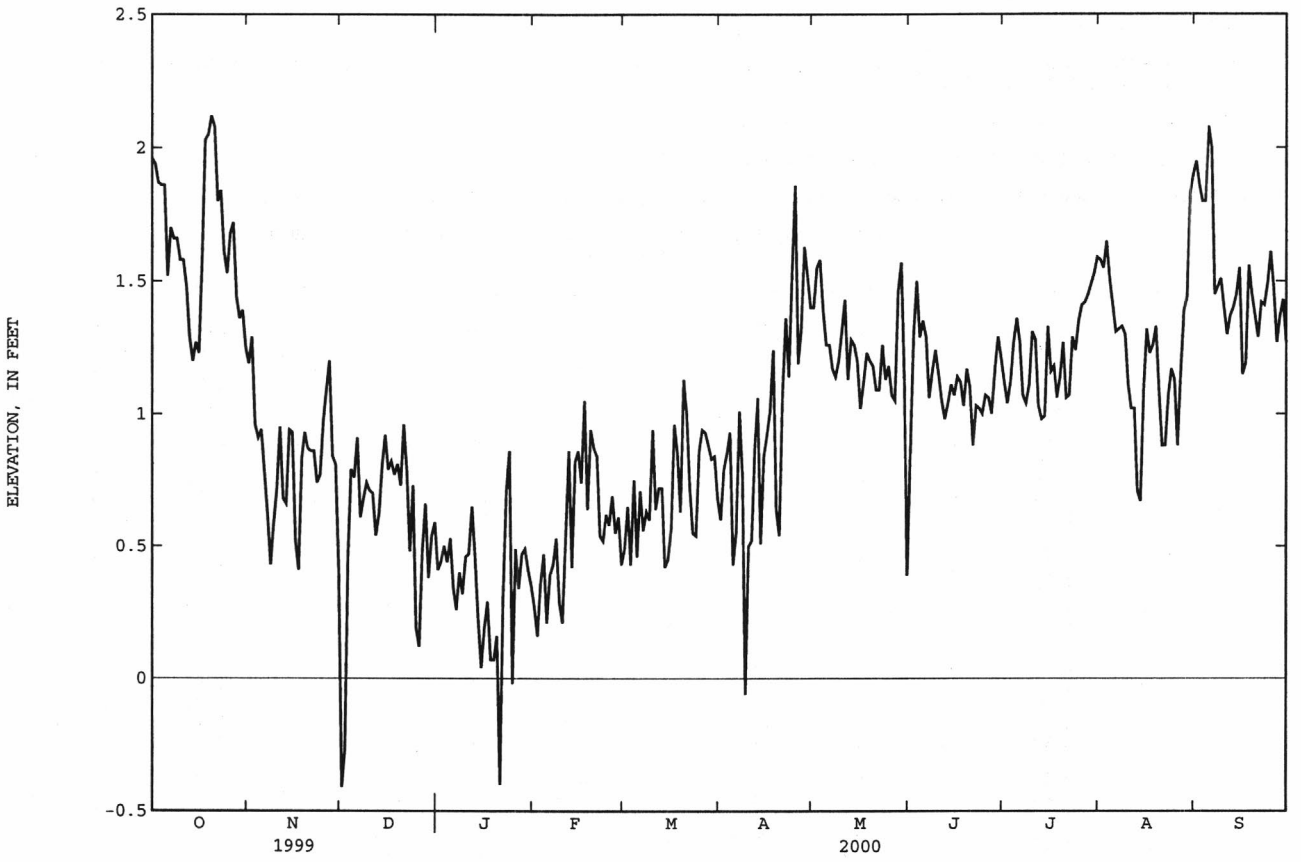
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.33 ft, Sept. 5; minimum elevation, -1.22 ft, Jan. 25.

ELEVATION, IN 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	1.96	1.19	-.41	.41	.27	.49	.60	1.40	.86	1.12	1.58	1.95
2	1.94	1.29	-.27	.44	.16	.65	.79	1.55	1.30	1.04	1.55	1.86
3	1.87	.96	.46	.50	.36	.43	.85	1.58	1.50	1.12	1.65	1.80
4	1.86	.91	.79	.44	.47	.75	.93	1.39	1.29	1.27	1.51	1.80
5	1.86	.94	.76	.53	.21	.46	.43	1.26	1.35	1.36	1.41	2.08
6	1.52	.78	.91	.34	.39	.71	.55	1.26	1.29	1.27	1.31	2.00
7	1.70	.62	.61	.26	.43	.56	1.01	1.17	1.06	1.07	1.32	1.45
8	1.66	.43	.68	.40	.53	.63	.77	1.14	1.16	1.04	1.33	1.48
9	1.66	.59	.74	.32	.29	.60	-.06	1.20	1.24	1.11	1.30	1.51
10	1.58	.72	.71	.46	.21	.94	.50	1.31	1.15	1.31	1.11	1.40
11	1.58	.95	.70	.47	.53	.64	.52	1.43	1.05	1.28	1.02	1.30
12	1.48	.68	.54	.65	.86	.72	.87	1.13	.98	1.03	1.02	1.37
13	1.29	.66	.62	.46	.42	.72	1.06	1.28	1.04	.98	.71	1.40
14	1.20	.94	.80	.23	.82	.42	.51	1.26	1.11	.99	.67	1.45
15	1.27	.93	.92	.04	.86	.45	.84	1.20	1.07	1.33	1.09	1.55
16	1.23	.52	.79	.19	.74	.57	.92	1.02	1.14	1.16	1.32	1.15
17	1.59	.41	.82	.29	1.05	.96	1.01	1.12	1.12	1.18	1.23	1.19
18	2.03	.83	.77	.07	.64	.85	1.24	1.23	1.03	1.06	1.26	1.56
19	2.05	.93	.81	.07	.94	.63	.64	1.20	1.17	1.14	1.33	1.45
20	2.12	.87	.73	.16	.87	1.13	.54	1.18	1.10	1.27	1.09	1.37
21	2.08	.86	.96	-.40	.84	1.00	1.08	1.09	.88	1.06	.88	1.29
22	1.80	.86	.78	.31	.54	.72	1.36	1.09	1.03	1.07	.88	1.42
23	1.84	.74	.48	.71	.52	.55	1.14	1.26	1.02	1.29	1.07	1.41
24	1.61	.77	.73	.86	.62	.54	1.53	1.13	1.00	1.24	1.17	1.49
25	1.53	.97	.19	-.02	.58	.86	1.86	1.18	1.07	1.35	1.13	1.61
26	1.68	1.09	.12	.49	.69	.94	1.19	1.07	1.06	1.41	.88	1.47
27	1.72	1.20	.48	.34	.55	.93	1.32	1.05	1.00	1.42	1.16	1.27
28	1.44	.84	.66	.47	.61	.88	1.63	1.46	1.17	1.45	1.39	1.37
29	1.36	.81	.38	.49	.43	.83	1.52	1.57	1.29	1.49	1.44	1.43
30	1.39	.42	.54	.41	---	.84	1.40	1.13	1.21	1.53	1.83	1.27
31	1.25	---	.59	.35	---	.68	---	.39	---	1.59	1.90	---
MEAN	1.65	.82	.59	.35	.57	.71	.95	1.22	1.12	1.23	1.24	1.50
MAX	2.12	1.29	.96	.86	1.05	1.13	1.86	1.58	1.50	1.59	1.90	2.08
MIN	1.20	.41	-.41	-.40	.16	.42	-.06	.39	.86	.98	.67	1.15

Note: Negative numbers indicate water-surface elevations below sea level.

0208114055 ROANOKE RIVER AT PLYMOUTH, NC--Continued



0208114150 ROANOKE RIVER AT NC 45 NR WESTOVER, NC

LOCATION.--Lat 35°54'54", long 76°43'22", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, near center of river on south bridge fender of shipping channel, 10 ft upstream from State Highway 45 bridge, approximately 1.6 mi upstream from mouth, and 2.7 mi northwest of Westover.

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

ELEVATION RECORDS

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

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

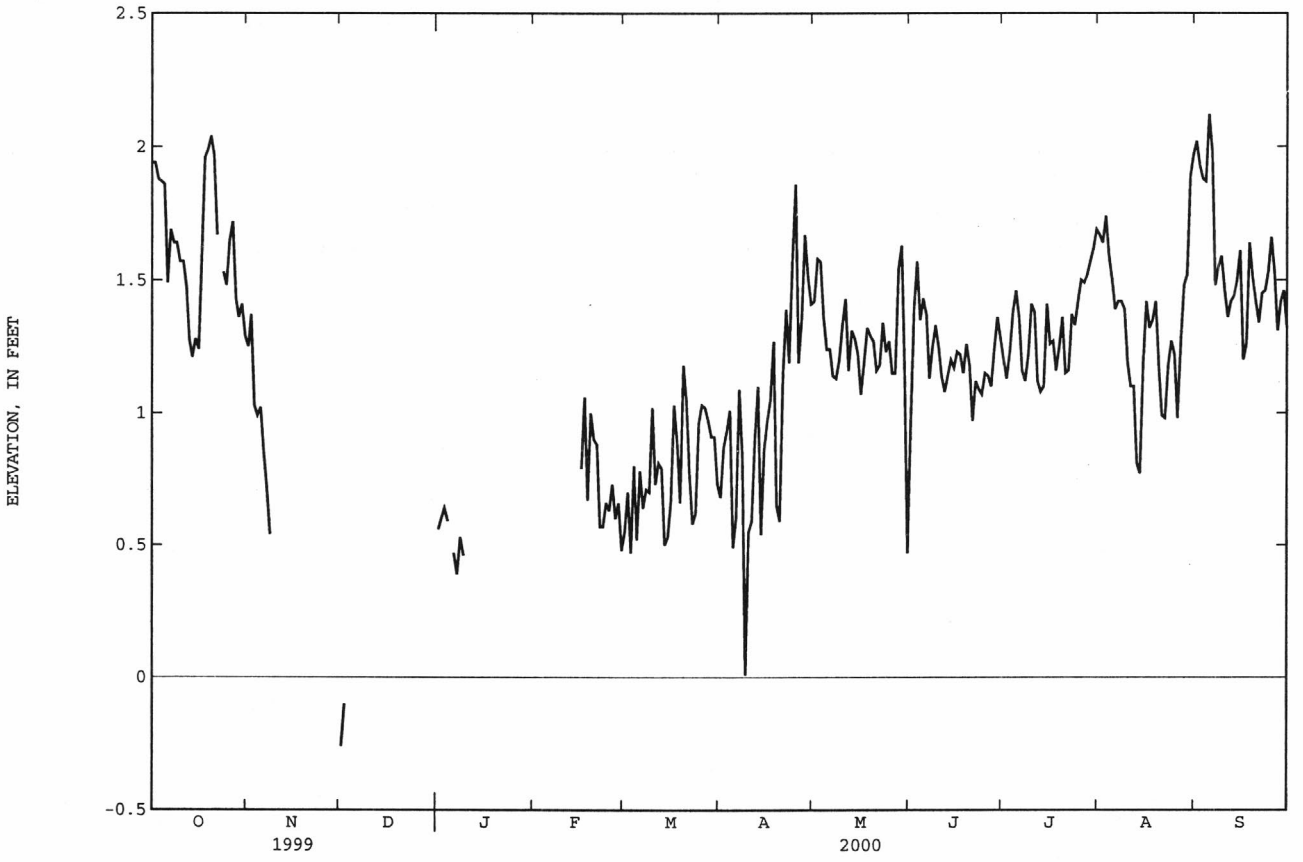
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded elevation, 4.68 ft, Sept. 16, 1999; minimum recorded elevation, -1.20 ft, Sept. 1, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 2.89 ft, Sept. 5; minimum recorded elevation, -1.07 ft, Jan. 25.

ELEVATION, IN 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	1.94	1.25	-.26	.56	---	.55	.68	1.42	.96	1.20	1.67	2.02
2	1.94	1.37	-.10	.60	---	.70	.87	1.58	1.39	1.13	1.64	1.93
3	1.88	1.03	---	.64	---	.47	.93	1.57	1.57	1.23	1.74	1.88
4	1.87	.99	---	.59	---	.80	1.01	1.36	1.35	1.38	1.59	1.87
5	1.86	1.02	---	---	---	.52	.49	1.24	1.43	1.46	1.50	2.12
6	1.49	.86	---	.47	---	.78	.60	1.24	1.37	1.36	1.39	1.98
7	1.69	.72	---	.39	---	.64	1.09	1.14	1.13	1.16	1.42	1.48
8	1.64	.54	---	.53	---	.71	.84	1.13	1.25	1.12	1.42	1.55
9	1.64	---	---	.46	---	.70	.01	1.20	1.33	1.22	1.39	1.59
10	1.57	---	---	---	---	1.02	.55	1.33	1.25	1.41	1.19	1.46
11	1.57	---	---	---	---	.73	.59	1.43	1.14	1.38	1.10	1.36
12	1.47	---	---	---	---	.81	.90	1.16	1.08	1.12	1.10	1.42
13	1.28	---	---	---	---	.79	1.10	1.31	1.14	1.08	.81	1.44
14	1.21	---	---	.34	---	.50	.54	1.28	1.20	1.10	.77	1.50
15	1.28	---	---	---	---	.53	.86	1.22	1.17	1.41	1.19	1.61
16	1.24	---	---	.33	.79	.67	.97	1.07	1.23	1.26	1.42	1.20
17	1.58	---	---	---	1.06	1.03	1.05	1.19	1.22	1.27	1.32	1.26
18	1.96	---	---	---	.67	.89	1.27	1.32	1.15	1.16	1.35	1.64
19	1.99	---	---	---	1.00	.66	.65	1.29	1.26	1.25	1.42	1.51
20	2.04	---	---	---	.90	1.18	.59	1.27	1.18	1.36	1.18	1.42
21	1.97	---	---	---	.88	1.05	1.15	1.16	.97	1.15	.99	1.34
22	1.67	---	---	---	.57	.77	1.39	1.18	1.12	1.16	.98	1.45
23	---	---	.63	---	.57	.58	1.19	1.34	1.09	1.37	1.18	1.46
24	1.53	---	---	---	.66	.62	1.57	1.23	1.07	1.33	1.27	1.53
25	1.48	---	---	---	.63	.96	1.86	1.27	1.15	1.42	1.22	1.66
26	1.65	---	---	---	.73	1.03	1.19	1.15	1.14	1.50	.98	1.53
27	1.72	---	.63	---	.60	1.02	1.35	1.15	1.10	1.49	1.27	1.31
28	1.43	---	---	---	.66	.97	1.67	1.54	1.24	1.52	1.48	1.42
29	1.36	---	.55	---	.48	.91	1.51	1.63	1.36	1.57	1.52	1.46
30	1.41	---	---	---	---	.91	1.41	1.16	1.28	1.62	1.89	1.32
31	1.29	---	---	---	---	.73	---	.47	---	1.69	1.97	---
MEAN	---	---	---	---	---	.78	1.00	1.26	1.21	1.32	1.33	1.56
MAX	---	---	---	---	---	1.18	1.86	1.63	1.57	1.69	1.97	2.12
MIN	---	---	---	---	---	.47	.01	.47	.96	1.08	.77	1.20

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



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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (TOP): May to September 2000.

SPECIFIC CONDUCTANCE (BOTTOM): November 1997 to current year

pH (TOP): May to September 2000.

pH (BOTTOM): November 1997 to current year.

WATER TEMPERATURE (TOP): May to September 2000.

WATER TEMPERATURE (BOTTOM): November 1997 to current year.

DISSOLVED OXYGEN (TOP): May to September 2000.

DISSOLVED OXYGEN (BOTTOM): November 1997 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP): May to September 2000.

DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM): November 1997 to current year.

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

REMARKS.--Station operated in cooperation with U.S. Fish and Wildlife Service to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Top constituents were monitored at approximately 18 ft above the streambed and bottom constituents, 2 ft above the streambed. Dissolved oxygen, percent saturation is computed. Dissolved oxygen, minimum extremes are reported only as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported only as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	265, August 31, 2000	105, August 2, 2000
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	10,900, July 3, 1999	48, September 21, 1999
pH (TOP), standard units	7.9, July 18, 2000	6.3, September 28, 29, 2000
pH (BOTTOM), standard units	7.7, June 17, 2000	5.8, March 4, 1998, September 18-22, 1999
WATER TEMPERATURE (TOP), °C	30.5, July 18, 2000	20.7, September 30, 2000
WATER TEMPERATURE (BOTTOM), °C	31.0, July 30, 1998, August 2, 1999	3.2, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	8.5, July 18, 2000	4.4, August 22, 2000
DISSOLVED OXYGEN (BOTTOM), mg/L	13.7, February 2, 2000	<1.0, on several days during period
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	112, July 18, 2000	53, September 8, 2000
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	115, November 30, 1999	< 10, on several days during period

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

EXTREMES FOR CURRENT WATER YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	265, August 31	105, August 2
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	262, March 18	89, October 19
pH (TOP), standard units	7.9, July 18	6.3, September 28, 29
pH (BOTTOM), standard units	7.7, June 17	6.0, October 19-24, July 10, 13
WATER TEMPERATURE (TOP), C	30.5, July 18	20.7, September 30
WATER TEMPERATURE (BOTTOM), C	29.1, July 19	3.2, January 29
DISSOLVED OXYGEN (TOP), mg/L	8.5, July 18	4.4, August 22
DISSOLVED OXYGEN (BOTTOM), mg/L	13.7, February 2	2.4, October 1, 2
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	112, July 18	53, September 8
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	109, February 21, 25, 26, 27	26, October 1

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	145	128	132
12	---	---	---	---	---	---	---	---	---	135	130	131
13	---	---	---	---	---	---	---	---	---	141	131	135
14	---	---	---	---	---	---	---	---	---	151	132	136
15	---	---	---	---	---	---	---	---	---	160	133	139
16	---	---	---	---	---	---	---	---	---	144	134	140
17	---	---	---	---	---	---	---	---	---	149	140	145
18	---	---	---	---	---	---	---	---	---	159	121	147
19	---	---	---	---	---	---	---	---	---	154	118	141
20	---	---	---	---	---	---	---	---	---	148	122	134
21	---	---	---	---	---	---	---	---	---	164	126	135
22	---	---	---	---	---	---	---	---	---	158	133	139
23	---	---	---	---	---	---	---	---	---	174	136	144
24	---	---	---	---	---	---	---	---	---	151	136	143
25	---	---	---	---	---	---	---	---	---	178	143	163
26	---	---	---	---	---	---	---	---	---	191	154	174
27	---	---	---	---	---	---	---	---	---	181	167	172
28	---	---	---	---	---	---	---	---	---	185	161	167
29	---	---	---	---	---	---	---	---	---	193	144	160
30	---	---	---	---	---	---	---	---	---	173	140	148
31	---	---	---	---	---	---	---	---	---	149	138	142
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	155	140	145	141	129	135	154	106	122	212	143	158
2	161	147	154	160	134	144	163	105	128	152	131	140
3	155	129	148	150	131	143	165	150	156	144	127	136
4	200	128	143	166	139	151	190	139	155	175	124	133
5	156	133	143	198	154	166	174	142	155	159	130	139
6	159	141	148	188	149	169	181	146	154	186	108	129
7	169	141	151	178	153	163	166	145	155	132	108	116
8	158	150	154	189	136	154	163	145	154	134	118	123
9	174	149	156	153	136	149	149	134	142	140	125	133
10	158	144	150	175	145	156	148	129	138	135	118	126
11	153	145	149	194	169	182	142	116	126	139	117	127
12	156	149	153	195	149	174	140	125	131	140	121	130
13	151	138	144	182	151	162	143	130	135	150	115	129
14	162	134	142	178	167	172	163	143	152	144	128	136
15	156	128	139	172	150	162	182	145	160	134	123	129
16	142	129	135	205	159	173	180	159	167	172	122	131
17	141	131	137	201	163	181	192	152	164	145	126	135
18	148	131	143	204	162	177	158	147	151	143	109	133
19	164	136	154	---	---	---	190	140	163	234	111	159
20	136	110	113	214	180	189	187	145	167	236	129	142
21	112	107	111	248	165	203	178	150	166	151	129	142
22	128	112	119	209	164	182	177	148	169	144	119	132
23	146	122	133	184	139	171	180	161	170	131	121	127
24	148	130	137	199	160	182	179	156	165	171	123	129
25	144	131	137	242	162	192	185	162	173	---	---	---
26	140	116	133	210	165	185	182	157	170	143	117	125
27	140	107	127	177	142	156	181	167	173	130	120	125
28	140	111	132	164	147	153	186	173	181	131	118	123
29	152	126	133	164	129	146	199	160	180	152	122	129
30	140	128	133	146	126	135	182	135	161	145	111	127
31	---	---	---	144	126	137	265	145	171	---	---	---
MONTH	200	107	140	---	---	---	265	105	157	---	---	---

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), BOTTOM, 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	108	105	106	134	128	130	198	160	173	212	169	188
2	113	107	111	142	130	135	177	147	163	201	171	184
3	116	112	114	143	134	138	174	152	162	181	166	173
4	118	113	116	149	135	142	172	154	162	174	144	166
5	119	110	115	152	142	147	174	154	159	171	141	149
6	113	109	111	148	143	146	162	152	157	157	141	147
7	122	110	113	160	146	153	180	158	168	150	143	147
8	114	108	110	163	152	158	193	143	164	159	146	152
9	114	108	110	160	149	153	153	141	148	159	148	152
10	113	110	111	161	148	156	165	145	156	164	144	155
11	116	111	113	170	138	157	194	139	158	165	126	146
12	116	113	114	180	146	159	167	143	151	193	133	148
13	119	113	116	160	147	154	178	166	169	149	143	145
14	122	117	119	189	150	172	186	176	180	160	139	144
15	125	120	122	242	166	191	197	174	185	147	138	142
16	132	122	126	223	132	157	206	161	187	145	138	142
17	139	124	129	219	142	174	204	146	165	157	137	144
18	124	94	108	201	158	178	169	144	159	150	139	143
19	96	89	92	176	149	162	169	158	163	151	139	142
20	100	96	98	163	149	155	178	156	164	149	127	139
21	98	93	96	168	144	155	177	149	164	134	126	130
22	97	93	94	166	136	150	204	165	182	134	127	129
23	102	97	100	195	148	164	190	153	172	138	126	130
24	103	98	101	196	162	183	193	155	166	146	136	140
25	106	101	103	189	146	167	193	139	162	180	127	137
26	110	106	107	162	143	149	174	153	162	170	133	146
27	114	106	111	189	142	153	231	160	173	140	128	136
28	117	111	113	174	146	158	232	178	209	139	126	132
29	121	117	119	190	158	173	230	180	203	137	126	131
30	129	121	125	204	164	184	195	189	193	138	121	132
31	132	125	128	---	---	---	240	192	215	134	127	130
MONTH	139	89	111	242	128	158	240	139	171	212	121	146

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), BOTTOM, 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	136	127	130	163	121	150	190	163	174	121	116	117
2	137	131	134	160	133	152	201	156	189	122	103	116
3	139	130	135	163	145	150	191	158	177	125	118	120
4	137	126	131	159	150	154	168	136	154	122	115	118
5	132	125	128	162	147	152	178	151	161	122	116	118
6	133	126	129	173	158	166	167	149	158	122	103	113
7	133	124	128	185	159	169	209	128	155	122	116	119
8	138	125	131	198	126	180	164	128	145	124	118	121
9	141	127	133	189	125	161	217	136	144	127	117	125
10	145	132	138	213	171	187	154	116	125	---	---	---
11	151	140	145	259	163	211	161	143	151	135	119	123
12	159	134	147	194	161	173	168	137	153	125	121	122
13	146	135	141	249	173	194	174	124	146	132	122	126
14	154	139	144	224	185	209	142	133	138	142	123	127
15	149	140	143	211	192	201	144	133	137	155	123	129
16	151	136	141	218	198	207	144	132	137	137	124	131
17	152	135	140	209	187	198	150	132	136	143	131	136
18	141	133	136	262	152	192	144	129	135	149	109	137
19	145	138	140	175	146	166	143	127	130	145	109	132
20	161	134	140	186	128	154	131	126	129	143	114	126
21	152	134	142	214	154	165	132	126	129	154	117	126
22	144	135	139	160	145	150	140	125	131	146	125	132
23	147	135	140	175	145	153	131	127	129	165	127	134
24	149	139	143	171	143	156	145	123	130	141	130	134
25	147	140	144	183	126	152	175	112	123	169	134	154
26	151	141	147	163	139	150	121	113	115	183	143	163
27	161	142	148	165	155	159	120	115	117	170	147	162
28	162	120	143	181	131	163	134	115	122	175	150	159
29	155	121	146	203	125	162	141	115	119	183	134	151
30	---	---	---	229	161	181	117	113	115	160	130	138
31	---	---	---	183	131	160	---	---	---	138	127	131
MONTH	162	120	139	262	121	170	217	112	140	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	141	129	135	---	---	---	153	101	121	226	138	157
2	155	137	146	---	---	---	154	100	124	149	128	137
3	148	127	139	---	---	---	168	149	159	144	123	134
4	203	118	133	---	---	---	185	139	156	170	120	130
5	143	123	132	---	---	---	180	141	157	148	126	135
6	148	132	138	---	---	---	181	146	155	176	107	127
7	156	130	141	---	---	---	168	147	157	133	107	116
8	151	139	143	---	---	---	163	143	152	138	119	125
9	160	139	145	---	---	---	144	129	136	144	128	136
10	146	135	140	---	---	---	142	121	131	140	121	130
11	143	136	139	---	---	---	135	109	120	144	124	135
12	146	139	142	---	---	---	134	114	124	152	126	139
13	143	133	136	---	---	---	138	124	129	165	119	137
14	---	---	---	---	---	---	155	137	147	158	137	148
15	---	---	---	---	---	---	170	142	150	147	130	139
16	---	---	---	---	---	---	173	156	165	---	---	---
17	---	---	---	---	---	---	185	144	161	---	---	---
18	---	---	---	---	---	---	151	142	145	---	---	---
19	---	---	---	---	---	---	185	128	158	---	---	---
20	---	---	---	213	183	188	188	134	162	---	---	---
21	---	---	---	248	159	200	179	131	162	---	---	---
22	---	---	---	211	161	180	174	149	165	---	---	---
23	---	---	---	184	139	169	176	153	167	---	---	---
24	---	---	---	199	159	182	169	151	159	---	---	---
25	---	---	---	244	159	192	182	156	168	---	---	---
26	---	---	---	213	161	184	176	151	166	---	---	---
27	---	---	---	176	138	154	174	161	165	---	---	---
28	---	---	---	165	144	151	179	164	173	---	---	---
29	---	---	---	165	123	143	193	142	174	---	---	---
30	---	---	---	143	122	132	175	126	152	---	---	---
31	---	---	---	145	124	135	248	141	166	---	---	---
MONTH	---	---	---	---	---	---	248	100	152	---	---	---

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	6.8	6.8	6.9	6.8	6.9	6.7	6.6	6.7	6.8	6.6	6.7
2	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.6	6.7	6.6	6.5	6.6
3	6.8	6.6	6.8	6.9	6.8	6.8	6.8	6.7	6.8	6.7	6.5	6.6
4	6.8	6.6	6.7	6.9	6.8	6.9	6.8	6.6	6.7	6.7	6.5	6.6
5	6.7	6.7	6.7	7.2	6.8	6.9	6.7	6.6	6.6	6.7	6.5	6.6
6	6.8	6.7	6.7	7.2	7.0	7.0	6.7	6.6	6.6	6.8	6.4	6.6
7	6.9	6.7	6.8	7.2	6.9	7.0	6.7	6.6	6.6	6.5	6.4	6.4
8	6.7	6.7	6.7	7.2	6.9	7.0	6.7	6.6	6.6	6.5	6.4	6.4
9	6.8	6.7	6.8	7.0	6.9	7.0	6.6	6.5	6.6	6.5	6.4	6.5
10	6.8	6.7	6.8	7.2	6.9	7.0	6.6	6.5	6.5	6.5	6.4	6.4
11	6.8	6.7	6.8	7.2	7.0	7.1	6.5	6.4	6.4	6.6	6.4	6.5
12	6.8	6.7	6.7	7.2	7.1	7.1	6.6	6.4	6.5	6.6	6.5	6.5
13	6.8	6.7	6.7	7.2	7.0	7.0	6.6	6.5	6.6	6.7	6.5	6.6
14	6.8	6.6	6.7	7.2	7.0	7.1	6.6	6.6	6.6	6.8	6.7	6.7
15	6.8	6.7	6.8	7.2	7.1	7.1	6.8	6.6	6.6	6.8	6.7	6.7
16	6.8	6.7	6.8	7.3	7.0	7.2	6.9	6.6	6.7	6.8	6.6	6.7
17	6.8	6.7	6.8	7.2	7.1	7.2	6.8	6.7	6.7	6.7	6.6	6.7
18	7.0	6.8	6.9	7.9	7.1	7.3	6.8	6.6	6.7	6.7	6.6	6.7
19	7.0	6.9	6.9	---	---	---	6.8	6.6	6.7	6.8	6.6	6.7
20	6.9	6.7	6.8	7.3	7.1	7.2	6.7	6.6	6.7	6.8	6.5	6.6
21	6.8	6.7	6.7	7.1	6.9	7.0	6.8	6.6	6.7	6.8	6.6	6.7
22	6.9	6.7	6.8	7.1	6.9	7.0	6.8	6.6	6.7	6.8	6.6	6.7
23	6.9	6.8	6.9	7.1	6.9	7.0	6.8	6.6	6.7	6.7	6.6	6.6
24	6.8	6.8	6.8	7.1	7.0	7.0	6.8	6.6	6.7	6.7	6.6	6.6
25	6.8	6.8	6.8	7.1	6.9	7.0	6.8	6.7	6.7	---	---	---
26	6.9	6.8	6.8	7.1	7.0	7.0	6.8	6.7	6.7	6.6	6.5	6.5
27	7.0	6.8	6.9	7.0	6.8	6.9	6.8	6.7	6.8	6.5	6.4	6.4
28	7.0	6.9	7.0	6.9	6.8	6.8	6.8	6.7	6.8	6.5	6.3	6.4
29	7.0	6.9	6.9	6.9	6.7	6.8	6.8	6.7	6.8	6.4	6.3	6.4
30	6.9	6.9	6.9	6.8	6.6	6.7	6.8	6.6	6.7	6.4	6.4	6.4
31	---	---	---	6.7	6.6	6.7	7.0	6.6	6.7	---	---	---
MONTH	7.0	6.6	6.8	---	---	---	7.0	6.4	6.7	---	---	---

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	6.3	6.2	6.3	6.2	6.2	6.2	6.8	6.7	6.8	6.8	6.6	6.7
2	6.3	6.2	6.3	6.2	6.2	6.2	6.8	6.7	6.8	6.7	6.6	6.6
3	6.3	6.2	6.2	6.3	6.2	6.2	6.8	6.7	6.8	6.6	6.6	6.6
4	6.3	6.2	6.3	6.3	6.3	6.3	6.8	6.7	6.8	6.7	6.6	6.6
5	6.3	6.2	6.3	6.4	6.3	6.4	6.9	6.8	6.8	6.7	6.5	6.7
6	6.2	6.2	6.2	6.4	6.4	6.4	6.9	6.8	6.8	6.7	6.7	6.7
7	6.2	6.1	6.2	6.5	6.4	6.5	6.9	6.8	6.9	6.7	6.6	6.7
8	6.2	6.1	6.1	6.5	6.4	6.5	6.9	6.8	6.8	6.7	6.6	6.7
9	6.2	6.1	6.2	6.4	6.3	6.4	6.8	6.7	6.8	6.7	6.6	6.7
10	6.2	6.1	6.2	6.5	6.3	6.4	6.8	6.7	6.8	6.7	6.5	6.7
11	6.2	6.1	6.2	6.6	6.4	6.5	6.9	6.7	6.8	6.7	6.5	6.6
12	6.1	6.1	6.1	6.6	6.5	6.5	6.8	6.8	6.8	6.7	6.6	6.6
13	6.1	6.1	6.1	6.5	6.4	6.4	6.8	6.7	6.8	6.7	6.5	6.7
14	6.3	6.1	6.2	6.5	6.4	6.5	6.8	6.7	6.8	6.7	6.6	6.7
15	6.3	6.3	6.3	6.6	6.5	6.6	6.8	6.7	6.8	6.7	6.6	6.6
16	6.3	6.3	6.3	6.6	6.4	6.5	6.8	6.7	6.8	6.7	6.6	6.7
17	6.4	6.3	6.3	6.8	6.4	6.7	6.8	6.6	6.7	6.8	6.7	6.7
18	6.4	6.1	6.3	6.8	6.6	6.7	6.7	6.6	6.7	6.8	6.7	6.8
19	6.1	6.0	6.1	6.7	6.6	6.6	6.8	6.7	6.7	6.8	6.7	6.7
20	6.1	6.0	6.0	6.7	6.6	6.6	6.8	6.6	6.7	6.8	6.7	6.8
21	6.1	6.0	6.0	6.8	6.7	6.7	6.7	6.6	6.6	7.0	6.7	6.8
22	6.0	6.0	6.0	6.8	6.7	6.7	6.8	6.7	6.7	7.0	6.9	6.9
23	6.1	6.0	6.1	6.8	6.7	6.7	6.7	6.6	6.7	6.9	6.8	6.9
24	6.1	6.0	6.1	6.8	6.7	6.7	6.8	6.6	6.7	6.9	6.9	6.9
25	6.1	6.1	6.1	6.8	6.6	6.7	6.8	6.6	6.7	7.0	6.7	6.8
26	6.1	6.1	6.1	6.7	6.6	6.6	6.8	6.6	6.7	6.9	6.7	6.8
27	6.2	6.1	6.1	6.8	6.6	6.7	6.8	6.6	6.7	6.8	6.7	6.8
28	6.2	6.2	6.2	6.7	6.6	6.7	6.8	6.7	6.7	6.8	6.7	6.7
29	6.2	6.2	6.2	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.7	6.7
30	6.3	6.2	6.3	6.9	6.7	6.8	6.7	6.7	6.7	6.8	6.7	6.7
31	6.2	6.2	6.2	---	---	---	6.8	6.7	6.7	6.8	6.7	6.7
MONTH	6.4	6.0	6.2	6.9	6.2	6.5	6.9	6.6	6.8	7.0	6.5	6.7

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

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	6.8	6.7	6.8	6.8	6.6	6.7	6.7	6.4	6.5	6.9	6.7	6.8
2	6.8	6.7	6.8	6.7	6.6	6.6	6.7	6.4	6.6	6.8	6.6	6.7
3	6.8	6.6	6.7	6.7	6.5	6.6	6.8	6.6	6.7	6.8	6.6	6.8
4	6.8	6.5	6.6	6.7	6.4	6.6	6.8	6.6	6.7	6.9	6.7	6.8
5	6.6	6.6	6.6	6.6	6.2	6.5	6.8	6.7	6.8	6.8	6.7	6.8
6	6.7	6.6	6.6	6.7	6.2	6.4	6.8	6.7	6.7	6.9	6.6	6.8
7	6.8	6.6	6.7	6.5	6.2	6.3	6.8	6.7	6.7	6.7	6.6	6.6
8	6.8	6.7	6.8	6.5	6.2	6.3	6.8	6.7	6.8	6.7	6.6	6.6
9	6.9	6.8	6.8	6.5	6.2	6.3	6.9	6.8	6.8	6.7	6.6	6.7
10	6.9	6.8	6.8	6.5	6.0	6.3	6.9	6.7	6.8	6.7	6.6	6.7
11	7.0	6.9	6.9	6.4	6.1	6.3	6.8	6.6	6.7	6.8	6.6	6.7
12	7.0	7.0	7.0	6.4	6.2	6.3	6.9	6.7	6.8	6.8	6.7	6.8
13	7.0	6.9	6.9	6.4	6.0	6.3	6.9	6.7	6.8	6.9	6.8	6.8
14	7.1	6.9	7.0	---	---	---	6.9	6.7	6.8	7.0	6.9	7.0
15	7.1	7.1	7.1	---	---	---	6.9	6.8	6.8	7.0	6.9	6.9
16	7.4	7.0	7.2	---	---	---	7.0	6.8	6.8	7.0	6.9	6.9
17	7.7	7.1	7.3	---	---	---	7.0	6.9	7.0	6.9	6.9	6.9
18	7.5	7.1	7.3	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9
19	7.5	7.0	7.3	---	---	---	7.0	6.8	6.9	7.0	6.8	6.9
20	7.3	6.9	7.2	6.9	6.7	6.8	6.9	6.8	6.9	7.0	6.8	6.8
21	7.3	6.8	7.1	6.8	6.7	6.7	6.9	6.9	6.9	7.0	6.8	6.9
22	7.2	6.8	7.0	6.8	6.8	6.8	7.0	6.9	6.9	7.0	6.8	6.8
23	7.3	6.8	7.0	6.9	6.8	6.9	7.0	6.8	6.9	6.8	6.8	6.8
24	7.2	6.8	6.9	6.9	6.8	6.9	6.9	6.8	6.9	6.9	6.8	6.8
25	7.1	6.7	6.9	7.0	6.8	6.9	7.0	6.9	6.9	---	---	---
26	7.1	6.7	6.8	7.0	6.8	6.9	7.0	6.7	6.9	6.7	6.6	6.7
27	7.1	6.6	6.9	6.8	6.7	6.7	7.0	6.9	6.9	6.6	6.6	6.6
28	7.0	6.7	6.9	6.9	6.6	6.7	7.0	6.9	7.0	6.6	6.5	6.6
29	6.9	6.8	6.9	6.9	6.6	6.8	7.0	6.9	6.9	6.6	6.5	6.5
30	6.9	6.7	6.8	6.7	6.6	6.6	7.0	6.8	6.9	6.6	6.5	6.5
31	---	---	---	6.7	6.5	6.6	7.0	6.7	6.8	---	---	---
MONTH	7.7	6.5	6.9	---	---	---	7.0	6.4	6.8	---	---	---

TEMPERATURE, WATER (DEG. C), TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	23.2	21.9	22.5
12	---	---	---	---	---	---	---	---	---	23.6	22.2	22.8
13	---	---	---	---	---	---	---	---	---	24.2	22.6	23.4
14	---	---	---	---	---	---	---	---	---	24.4	23.5	23.9
15	---	---	---	---	---	---	---	---	---	24.0	23.1	23.6
16	---	---	---	---	---	---	---	---	---	23.3	22.8	23.0
17	---	---	---	---	---	---	---	---	---	23.2	22.4	22.8
18	---	---	---	---	---	---	---	---	---	23.5	22.5	22.9
19	---	---	---	---	---	---	---	---	---	24.6	22.6	23.3
20	---	---	---	---	---	---	---	---	---	25.0	23.2	23.9
21	---	---	---	---	---	---	---	---	---	24.5	23.8	24.0
22	---	---	---	---	---	---	---	---	---	23.9	23.5	23.8
23	---	---	---	---	---	---	---	---	---	24.5	23.6	24.0
24	---	---	---	---	---	---	---	---	---	25.9	23.6	24.3
25	---	---	---	---	---	---	---	---	---	26.2	24.6	25.1
26	---	---	---	---	---	---	---	---	---	26.0	25.1	25.5
27	---	---	---	---	---	---	---	---	---	26.2	25.3	25.7
28	---	---	---	---	---	---	---	---	---	25.7	24.8	25.3
29	---	---	---	---	---	---	---	---	---	24.8	22.6	23.9
30	---	---	---	---	---	---	---	---	---	22.6	21.8	22.1
31	---	---	---	---	---	---	---	---	---	22.7	21.3	21.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

TEMPERATURE, WATER (DEG. C), TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	22.1	22.7	27.9	26.5	27.0	28.5	26.9	27.5	27.1	26.2	26.5
2	26.2	22.8	23.4	28.4	26.5	27.0	28.5	27.3	27.8	26.9	26.3	26.6
3	24.2	23.2	23.6	27.5	26.7	27.0	28.4	27.6	27.9	27.1	26.4	26.7
4	23.6	22.5	22.8	28.0	26.5	27.2	27.9	27.1	27.5	27.1	26.5	26.8
5	23.3	22.5	22.9	30.1	27.0	27.6	27.6	26.9	27.2	26.5	25.2	26.1
6	24.4	23.2	23.6	29.6	27.5	28.1	27.9	27.0	27.5	25.3	24.1	24.7
7	24.1	23.4	23.6	29.0	27.9	28.2	29.0	27.4	28.0	24.4	23.7	23.9
8	24.2	23.2	23.6	29.2	27.8	28.1	30.0	28.1	28.9	25.1	23.3	23.9
9	24.3	22.9	23.5	28.3	27.6	27.8	29.6	28.7	29.1	24.4	23.8	24.0
10	24.8	23.2	23.9	29.7	27.2	28.0	29.4	28.8	29.0	25.5	23.9	24.3
11	25.5	24.2	24.7	29.3	28.1	28.5	29.4	28.6	28.9	25.5	24.2	24.6
12	26.3	24.8	25.3	29.2	28.3	28.6	28.9	28.3	28.6	25.2	24.1	24.6
13	27.9	24.8	25.5	29.0	27.9	28.4	28.8	27.8	28.2	25.8	24.9	25.3
14	28.3	25.7	26.4	28.9	27.8	28.3	28.3	27.7	28.0	26.0	25.5	25.7
15	27.5	26.2	26.8	28.3	27.2	27.8	29.4	27.5	28.0	26.5	25.5	25.8
16	28.0	26.6	27.1	29.5	27.8	28.4	29.5	27.7	28.5	25.8	24.8	25.2
17	28.1	26.9	27.3	28.9	28.0	28.4	29.5	27.8	28.2	24.9	24.3	24.6
18	28.9	26.9	27.7	30.5	28.7	29.2	28.7	27.8	28.1	24.5	23.7	24.0
19	29.0	27.3	27.9	---	---	---	28.4	27.4	27.9	24.0	23.5	23.8
20	27.7	27.2	27.4	29.0	28.3	28.7	28.0	27.4	27.7	23.9	23.2	23.6
21	28.4	27.2	27.6	28.4	27.9	28.2	28.0	26.5	27.2	24.1	23.4	23.6
22	28.9	27.7	28.1	29.0	27.6	28.0	27.7	26.5	27.0	24.4	23.7	24.0
23	28.5	27.2	27.8	28.8	28.0	28.3	28.2	26.7	27.4	24.0	23.7	23.8
24	28.1	27.4	27.7	28.4	27.8	28.2	29.2	27.0	27.7	24.8	23.5	24.0
25	28.2	27.1	27.6	27.8	26.9	27.2	28.2	27.5	27.7	---	---	---
26	28.3	27.4	27.9	27.1	26.3	26.7	28.2	27.0	27.4	24.1	22.7	23.5
27	28.4	27.4	27.8	26.9	26.2	26.5	27.9	26.9	27.3	22.7	22.2	22.4
28	28.1	27.4	27.6	28.0	26.5	26.8	27.5	26.8	27.1	22.4	21.6	22.0
29	27.4	26.9	27.1	27.0	26.2	26.6	27.7	26.8	27.2	21.9	21.2	21.6
30	27.4	26.5	26.9	27.4	26.1	26.7	27.4	26.0	26.7	21.5	20.7	21.1
31	---	---	---	27.5	26.7	27.1	27.1	26.4	26.6	---	---	---
MONTH	29.0	22.1	25.9	---	---	---	30.0	26.0	27.8	---	---	---

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	21.9	21.0	21.4	16.5	15.9	16.2	14.1	12.3	13.1	8.2	7.6	7.9
2	21.2	20.6	20.9	16.7	16.4	16.6	12.4	11.8	12.1	8.3	7.7	7.9
3	21.5	20.8	21.1	16.6	16.1	16.4	12.4	11.9	12.1	9.0	7.9	8.3
4	21.9	21.3	21.6	16.3	15.8	16.0	12.1	11.3	11.8	10.4	9.0	9.6
5	21.8	21.1	21.5	16.1	15.6	15.8	11.4	11.0	11.2	10.4	9.6	10.1
6	21.1	20.2	20.5	15.9	15.3	15.6	12.0	11.3	11.6	9.8	9.4	9.6
7	20.2	19.9	20.1	15.8	15.2	15.5	12.0	11.5	11.8	10.2	9.6	9.9
8	20.0	19.5	19.7	15.3	14.7	15.0	11.8	11.2	11.5	10.1	9.7	9.9
9	20.0	19.4	19.7	15.4	14.7	15.1	11.7	11.1	11.4	9.9	9.7	9.8
10	20.5	19.8	20.1	15.8	15.0	15.3	12.0	11.3	11.7	10.4	9.7	10.1
11	20.7	20.5	20.6	15.7	15.1	15.4	11.9	11.3	11.7	10.5	10.2	10.4
12	20.7	20.4	20.5	15.7	15.3	15.5	11.3	10.8	11.1	10.3	10.0	10.2
13	20.4	20.0	20.2	15.3	15.0	15.2	11.9	10.9	11.2	10.2	9.9	10.0
14	20.4	19.9	20.1	15.9	15.1	15.4	12.6	11.8	12.2	9.9	9.0	9.3
15	20.2	19.7	20.0	15.8	14.8	15.3	12.5	11.9	12.2	9.0	8.6	8.7
16	20.1	19.4	19.7	15.5	14.3	14.8	12.3	11.7	12.0	8.6	8.3	8.4
17	20.3	19.8	20.0	14.5	13.8	14.1	11.8	11.2	11.5	8.5	7.6	8.1
18	20.5	20.1	20.3	14.3	13.5	13.8	11.4	11.1	11.3	7.7	7.0	7.3
19	20.2	19.3	19.8	13.8	13.3	13.5	11.8	11.3	11.5	7.0	6.7	6.8
20	19.3	18.8	19.0	13.5	13.2	13.4	12.2	11.7	11.9	7.0	6.5	6.8
21	18.8	17.6	18.2	13.6	13.1	13.3	12.3	11.7	12.0	6.5	5.9	6.1
22	17.6	17.0	17.2	14.6	13.6	14.0	12.1	11.3	11.7	5.9	5.6	5.7
23	17.2	16.5	17.0	14.7	14.4	14.5	11.3	10.9	11.1	5.7	5.6	5.6
24	16.5	15.4	16.0	15.1	14.4	14.7	11.0	10.0	10.5	5.7	5.2	5.5
25	15.4	14.8	15.1	15.4	15.0	15.2	10.1	9.0	9.5	5.4	4.6	4.9
26	15.0	14.6	14.8	15.9	15.3	15.6	9.0	8.2	8.5	4.6	4.3	4.5
27	15.1	14.5	14.8	16.6	15.9	16.2	8.7	8.1	8.3	4.3	3.9	4.1
28	15.1	14.6	14.9	16.3	15.8	16.1	8.7	8.4	8.5	3.9	3.3	3.6
29	15.4	14.7	15.1	16.0	15.5	15.7	8.7	8.3	8.5	3.5	3.2	3.3
30	15.8	15.0	15.4	15.6	14.1	14.7	8.4	7.9	8.2	3.7	3.4	3.5
31	16.1	15.3	15.7	---	---	---	8.5	7.9	8.1	3.8	3.4	3.7
MONTH	21.9	14.5	18.7	16.7	13.1	15.1	14.1	7.9	11.0	10.5	3.2	7.4

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

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	3.9	3.3	3.6	11.3	10.9	11.1	16.2	15.4	15.7	17.2	15.8	16.5
2	4.0	3.4	3.8	11.7	11.1	11.3	16.2	15.9	16.1	17.6	16.7	17.2
3	3.9	3.6	3.8	11.3	11.0	11.1	16.5	15.7	16.0	18.1	17.2	17.6
4	4.2	3.8	4.0	11.5	10.9	11.2	16.1	15.7	16.0	18.8	17.7	18.3
5	4.5	3.9	4.2	11.4	10.8	11.0	15.7	14.7	15.2	19.5	18.3	18.9
6	4.7	4.1	4.4	11.9	10.9	11.3	15.8	14.5	15.1	20.3	19.1	19.7
7	4.9	4.3	4.6	12.7	11.4	11.8	16.6	15.4	15.9	21.1	19.9	20.5
8	5.1	4.7	4.9	12.4	11.4	11.7	16.8	16.1	16.4	21.8	20.7	21.3
9	5.4	5.0	5.1	14.1	12.1	12.9	16.4	15.4	15.9	22.5	21.2	21.8
10	6.0	5.2	5.5	14.5	13.5	13.8	16.0	15.1	15.6	---	---	---
11	6.4	5.9	6.1	15.4	14.3	14.9	16.5	15.8	16.2	23.1	22.0	22.5
12	6.5	5.9	6.2	15.6	14.9	15.2	16.6	16.2	16.4	23.4	22.3	22.8
13	6.0	5.7	5.8	15.2	14.1	14.6	16.3	15.0	15.7	24.1	22.6	23.3
14	6.5	6.0	6.2	14.9	14.5	14.7	15.2	14.7	14.9	24.4	23.5	23.9
15	6.6	6.2	6.5	15.5	14.8	15.0	15.6	15.2	15.3	24.0	23.1	23.5
16	6.7	6.3	6.5	16.3	15.3	15.7	16.0	15.4	15.7	23.3	22.7	22.9
17	7.0	6.6	6.8	16.4	15.3	16.1	16.5	15.8	16.1	23.1	22.4	22.8
18	7.0	6.8	6.9	15.3	13.9	14.4	16.7	16.4	16.5	23.4	22.5	22.9
19	7.9	7.0	7.4	14.1	13.3	13.7	16.4	15.5	15.7	23.6	22.6	23.0
20	7.9	7.6	7.8	13.9	13.4	13.7	16.4	15.2	15.6	24.0	23.1	23.6
21	7.9	7.5	7.7	13.7	13.2	13.4	17.2	16.3	16.7	24.3	23.8	24.0
22	7.7	7.4	7.6	13.2	12.4	12.8	17.1	16.3	16.5	23.9	23.6	23.7
23	8.4	7.7	8.0	12.6	12.1	12.4	17.2	16.3	16.7	24.3	23.5	23.9
24	8.6	8.2	8.4	13.1	12.2	12.5	17.2	16.6	16.9	24.2	23.6	23.8
25	9.2	8.5	8.8	14.1	13.0	13.5	17.1	16.1	16.6	25.2	24.0	24.7
26	9.6	9.2	9.4	14.2	13.7	13.9	16.3	15.9	16.0	25.5	24.9	25.2
27	10.4	9.6	10.0	15.0	13.9	14.4	15.9	15.5	15.7	25.9	25.2	25.5
28	11.2	10.4	10.9	15.5	14.6	15.0	15.5	14.9	15.2	25.7	24.8	25.3
29	11.4	11.0	11.2	15.7	14.7	15.0	15.3	14.9	15.1	24.8	22.7	23.9
30	---	---	---	15.4	14.9	15.2	16.2	14.9	15.5	22.7	21.7	22.1
31	---	---	---	15.8	14.9	15.3	---	---	---	22.4	21.2	21.7
MONTH	11.4	3.3	6.6	16.4	10.8	13.5	17.2	14.5	15.9	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.4	22.1	22.2	27.1	26.3	26.7	27.7	26.8	27.2	26.6	26.1	26.3
2	23.2	22.3	22.8	27.0	26.4	26.7	28.2	27.3	27.6	26.8	26.2	26.4
3	23.8	23.0	23.3	27.3	26.6	26.9	28.1	27.5	27.8	27.0	26.3	26.6
4	23.6	22.5	22.9	27.2	26.4	26.7	27.9	27.1	27.5	26.9	26.4	26.6
5	23.3	22.5	22.9	27.5	26.8	27.0	27.4	26.9	27.1	26.5	25.1	26.0
6	23.8	23.2	23.5	27.8	27.4	27.6	27.8	27.0	27.4	25.1	24.0	24.6
7	23.8	23.2	23.5	28.0	27.7	27.8	28.5	27.4	27.8	24.0	23.4	23.8
8	23.7	23.3	23.5	27.8	27.5	27.7	28.8	28.1	28.4	23.8	23.1	23.4
9	23.6	22.9	23.3	27.9	27.5	27.7	28.9	28.6	28.7	24.0	23.5	23.8
10	24.7	23.2	23.8	27.6	27.0	27.2	29.0	28.5	28.8	24.5	23.8	24.0
11	25.2	24.1	24.6	28.4	27.2	27.9	29.0	28.5	28.7	24.7	24.1	24.3
12	25.6	24.8	25.1	28.6	28.2	28.4	28.8	28.2	28.4	24.9	24.0	24.4
13	25.6	24.8	25.2	28.3	27.8	28.0	28.4	27.7	28.0	25.7	24.9	25.2
14	26.8	25.6	26.0	28.5	27.7	28.0	28.1	27.5	27.7	25.8	25.5	25.6
15	27.2	26.1	26.6	28.0	27.1	27.5	28.1	27.3	27.6	25.9	25.4	25.7
16	27.5	26.5	27.0	28.2	27.7	27.9	28.4	27.6	27.8	25.8	24.7	25.2
17	27.6	26.7	27.2	28.3	27.8	28.1	28.3	27.6	27.9	24.9	24.2	24.5
18	28.0	26.8	27.2	28.7	28.1	28.4	28.0	27.7	27.9	24.5	23.5	24.0
19	27.8	27.2	27.5	---	---	---	27.9	27.3	27.6	23.9	23.4	23.8
20	27.6	27.0	27.3	29.0	28.4	28.7	27.8	27.2	27.5	23.7	23.2	23.5
21	27.9	27.0	27.4	28.4	27.9	28.2	27.3	26.4	26.9	23.7	23.4	23.5
22	28.4	27.6	27.9	28.1	27.5	27.8	27.2	26.2	26.6	24.2	23.6	23.9
23	28.0	27.1	27.5	28.5	27.9	28.2	27.2	26.6	26.8	24.0	23.7	23.8
24	27.8	27.3	27.5	28.4	27.7	28.2	27.3	26.8	27.0	24.3	23.5	23.9
25	28.0	27.0	27.5	27.7	26.8	27.2	27.7	26.9	27.4	---	---	---
26	28.2	27.2	27.7	27.1	26.4	26.7	27.4	26.8	27.1	24.1	22.6	23.4
27	28.0	27.2	27.6	26.8	26.2	26.4	27.4	26.8	27.1	22.6	22.1	22.3
28	27.8	27.2	27.5	26.8	26.5	26.7	27.2	26.7	26.9	22.2	21.5	21.9
29	27.3	26.8	27.0	26.8	26.2	26.5	27.1	26.7	26.9	21.9	21.2	21.5
30	27.1	26.3	26.7	27.1	26.1	26.6	27.0	25.8	26.6	21.2	20.6	20.9
31	---	---	---	27.3	26.6	27.0	26.5	26.2	26.4	---	---	---
MONTH	28.4	22.1	25.7	---	---	---	29.0	25.8	27.5	---	---	---

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

OXYGEN DISSOLVED (MG/L), TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	6.0	5.3	5.6
12	---	---	---	---	---	---	---	---	---	6.2	5.1	5.6
13	---	---	---	---	---	---	---	---	---	6.4	5.3	5.6
14	---	---	---	---	---	---	---	---	---	6.1	5.1	5.4
15	---	---	---	---	---	---	---	---	---	6.1	4.8	5.2
16	---	---	---	---	---	---	---	---	---	5.9	4.9	5.2
17	---	---	---	---	---	---	---	---	---	5.9	5.1	5.3
18	---	---	---	---	---	---	---	---	---	6.4	5.2	5.6
19	---	---	---	---	---	---	---	---	---	6.4	5.6	5.9
20	---	---	---	---	---	---	---	---	---	6.3	5.7	5.9
21	---	---	---	---	---	---	---	---	---	6.2	5.5	5.8
22	---	---	---	---	---	---	---	---	---	6.0	5.4	5.6
23	---	---	---	---	---	---	---	---	---	5.8	5.4	5.6
24	---	---	---	---	---	---	---	---	---	6.2	5.5	5.7
25	---	---	---	---	---	---	---	---	---	6.1	5.2	5.5
26	---	---	---	---	---	---	---	---	---	6.1	5.2	5.6
27	---	---	---	---	---	---	---	---	---	6.4	5.4	5.7
28	---	---	---	---	---	---	---	---	---	6.1	5.6	5.9
29	---	---	---	---	---	---	---	---	---	7.0	5.8	6.3
30	---	---	---	---	---	---	---	---	---	7.1	6.8	6.9
31	---	---	---	---	---	---	---	---	---	6.9	6.3	6.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.8	6.1	6.3	6.5	5.6	6.0	5.7	4.9	5.3	5.9	5.0	5.5
2	6.7	6.0	6.3	6.1	5.5	5.7	5.9	5.3	5.5	5.7	5.3	5.5
3	6.7	6.1	6.3	6.3	5.5	5.8	5.9	5.2	5.5	5.6	5.3	5.4
4	6.6	6.2	6.4	6.7	5.8	6.1	5.9	5.4	5.7	5.6	5.1	5.3
5	6.5	6.3	6.4	7.4	5.9	6.3	5.9	5.5	5.6	6.1	4.8	5.3
6	6.7	6.2	6.3	7.6	5.7	6.2	5.9	5.5	5.7	6.2	4.9	5.5
7	7.0	6.5	6.7	7.5	5.6	6.2	6.3	5.6	5.8	5.1	4.7	4.8
8	6.8	6.5	6.7	7.9	5.6	6.2	6.1	5.6	5.8	5.5	4.5	4.8
9	---	---	---	6.9	5.5	6.2	5.9	5.4	5.6	5.2	4.7	4.8
10	---	---	---	8.0	6.6	7.0	5.8	5.0	5.3	5.5	4.8	5.0
11	---	---	---	7.1	5.9	6.5	5.0	4.5	4.7	5.6	4.8	5.0
12	---	---	---	7.4	6.2	6.6	6.0	4.9	5.3	5.7	5.0	5.3
13	---	---	---	7.1	5.9	6.3	6.0	5.1	5.4	5.9	5.5	5.7
14	---	---	---	6.5	5.4	5.8	5.8	5.0	5.3	6.2	5.9	6.0
15	7.0	6.4	6.6	7.2	5.9	6.3	6.1	5.0	5.3	6.5	5.9	6.2
16	7.0	6.4	6.6	7.7	5.8	6.4	7.3	4.9	5.7	6.4	6.0	6.1
17	7.0	6.4	6.6	7.1	5.7	6.2	6.4	5.0	5.4	6.3	5.9	6.1
18	7.4	6.6	6.8	8.5	5.4	6.8	6.4	4.8	5.2	6.2	5.8	6.0
19	7.1	6.3	6.6	---	---	---	6.0	4.6	4.9	6.3	5.5	5.9
20	6.7	6.0	6.4	6.6	5.4	6.2	5.8	4.5	5.0	6.1	5.6	5.9
21	6.6	5.9	6.1	5.4	4.8	5.1	6.0	4.8	5.2	6.7	6.0	6.5
22	6.7	6.0	6.3	5.6	4.6	5.0	6.0	4.4	5.0	6.6	6.3	6.5
23	6.5	6.1	6.3	6.3	4.9	5.4	5.6	4.5	5.1	6.4	6.2	6.3
24	6.2	5.8	6.0	5.6	4.8	5.1	6.4	4.9	5.3	6.4	6.1	6.3
25	6.2	5.9	6.0	5.6	5.1	5.3	5.8	4.6	5.1	---	---	---
26	6.4	5.8	6.2	5.6	5.1	5.4	6.1	4.9	5.4	6.0	5.7	5.8
27	6.5	6.2	6.4	5.2	4.8	5.0	6.2	5.2	5.7	5.9	5.5	5.6
28	6.4	6.1	6.3	5.3	4.8	5.0	5.9	5.1	5.4	6.0	5.4	5.6
29	6.3	5.9	6.2	5.2	4.9	5.0	5.8	5.0	5.3	6.2	5.4	5.8
30	6.3	5.8	6.0	5.2	4.7	5.0	6.1	4.9	5.4	6.2	5.8	6.0
31	---	---	---	5.2	4.7	5.0	6.0	5.2	5.5	---	---	---
MONTH	---	---	---	---	---	---	7.3	4.4	5.4	---	---	---

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

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	2.9	2.4	2.6	4.9	4.6	4.7	9.1	8.4	8.7	10.5	10.0	10.2
2	3.0	2.4	2.7	5.1	4.4	4.7	9.1	8.8	8.9	10.4	9.9	10.1
3	3.4	2.9	3.2	5.4	4.8	5.1	9.0	8.7	8.9	10.5	9.9	10.2
4	3.8	3.3	3.6	5.5	5.2	5.4	9.9	9.0	9.4	10.1	9.2	9.8
5	4.0	3.6	3.8	6.2	5.4	5.7	10.4	9.9	10.2	10.0	8.7	9.7
6	3.8	3.5	3.6	6.8	6.0	6.4	10.5	10.2	10.3	10.1	9.6	9.8
7	4.7	3.7	4.2	6.9	6.6	6.7	---	---	---	9.8	9.1	9.4
8	4.6	4.2	4.4	6.7	6.3	6.5	---	---	---	9.2	8.7	9.0
9	4.6	4.3	4.5	6.5	6.1	6.3	---	---	---	9.2	8.7	9.0
10	4.6	4.3	4.4	6.7	5.8	6.2	---	---	---	9.1	7.0	8.5
11	4.4	3.7	4.1	6.8	5.8	6.3	---	---	---	9.4	7.7	8.7
12	3.8	3.5	3.6	7.0	6.2	6.6	---	---	---	9.4	8.4	9.1
13	3.6	3.3	3.4	6.5	5.8	6.1	---	---	---	9.7	8.8	9.3
14	4.1	3.5	3.8	6.5	5.9	6.1	---	---	---	9.9	9.4	9.7
15	4.5	3.9	4.2	7.3	5.8	6.6	---	---	---	10.1	9.7	9.8
16	4.7	4.3	4.5	7.4	6.1	6.7	---	---	---	10.4	9.9	10.1
17	5.8	4.6	4.9	7.5	6.5	6.9	---	---	---	10.9	9.9	10.5
18	5.9	4.5	5.4	6.7	6.4	6.6	9.5	9.2	9.4	11.2	10.7	10.9
19	4.5	3.9	4.1	7.1	6.6	6.8	9.6	9.3	9.5	11.4	10.9	11.1
20	4.0	3.5	3.7	7.9	7.0	7.5	9.6	9.2	9.4	11.5	11.0	11.2
21	3.9	3.4	3.7	8.5	7.8	8.2	9.5	9.0	9.2	11.9	11.4	11.6
22	3.9	3.4	3.6	8.4	8.0	8.2	9.3	9.0	9.2	11.6	11.4	11.5
23	4.6	3.9	4.3	8.3	7.7	8.1	9.3	8.7	9.0	11.7	11.4	11.5
24	4.9	4.3	4.5	7.9	7.3	7.6	9.6	8.9	9.1	12.1	11.6	11.8
25	5.0	4.7	4.8	8.0	7.7	7.8	9.9	9.2	9.5	12.3	12.0	12.1
26	5.2	4.9	5.1	8.1	7.7	7.9	10.2	9.5	9.8	12.3	12.1	12.2
27	5.3	5.0	5.1	8.1	7.6	7.9	10.2	9.1	9.7	12.7	12.2	12.5
28	5.3	5.0	5.1	7.9	7.5	7.8	9.7	8.7	9.2	12.9	12.6	12.8
29	5.5	5.1	5.3	7.9	7.7	7.8	9.8	9.2	9.4	13.1	12.9	13.0
30	5.6	5.2	5.4	8.8	7.8	8.3	9.9	9.5	9.7	13.3	13.1	13.2
31	5.3	4.8	5.0	---	---	---	10.2	9.7	10.0	13.4	13.2	13.3
MONTH	5.9	2.4	4.2	8.8	4.4	6.8	---	---	---	13.4	7.0	10.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.5	13.2	13.3	11.9	11.6	11.7	8.7	8.0	8.2	8.2	8.0	8.1
2	13.7	13.3	13.5	11.8	11.5	11.6	8.6	7.8	8.1	8.2	7.7	8.0
3	13.5	13.3	13.4	11.8	11.4	11.6	9.2	8.4	8.6	7.7	7.3	7.5
4	13.5	13.2	13.4	11.6	11.3	11.5	9.6	9.1	9.4	7.3	7.0	7.2
5	13.4	13.2	13.3	11.7	11.4	11.6	9.8	9.4	9.5	7.3	6.8	7.0
6	13.4	13.2	13.3	11.6	11.3	11.4	9.9	9.5	9.7	7.1	6.4	6.8
7	13.5	13.2	13.4	11.6	11.1	11.3	9.7	9.2	9.4	6.7	6.1	6.5
8	13.6	13.3	13.4	11.4	10.7	11.0	9.5	9.2	9.3	6.4	5.9	6.2
9	13.6	13.3	13.4	11.3	10.7	11.0	9.6	9.1	9.4	6.3	5.8	6.0
10	13.5	13.2	13.3	10.8	10.0	10.4	9.5	9.2	9.3	---	---	---
11	13.3	13.1	13.2	10.8	9.8	10.2	9.5	9.1	9.3	5.7	5.3	5.5
12	13.6	13.2	13.3	10.3	10.0	10.2	9.3	8.8	9.1	5.8	5.2	5.5
13	13.6	13.3	13.4	10.0	9.0	9.6	9.4	8.9	9.1	5.8	5.4	5.5
14	13.6	13.2	13.4	9.6	9.0	9.2	9.5	9.2	9.3	5.4	5.1	5.2
15	13.5	13.1	13.2	9.6	8.7	9.1	9.3	8.7	9.0	5.3	4.8	5.1
16	13.5	13.1	13.2	8.8	8.4	8.6	8.9	8.4	8.7	5.2	4.7	5.0
17	13.5	13.2	13.3	9.4	8.7	9.0	8.8	8.4	8.6	5.1	5.0	5.0
18	13.6	12.9	13.2	9.9	9.3	9.6	8.8	8.3	8.5	5.7	5.1	5.4
19	13.1	12.6	12.8	10.1	9.2	9.5	8.8	8.5	8.7	5.7	5.4	5.5
20	13.1	12.7	12.8	10.2	9.7	9.9	8.6	8.2	8.4	5.7	4.9	5.3
21	13.2	12.8	13.0	10.0	9.7	9.8	8.6	8.2	8.4	5.6	4.8	5.2
22	13.2	12.8	12.9	10.2	9.8	10.0	8.4	8.1	8.2	5.2	4.7	4.9
23	13.0	12.4	12.6	10.3	10.0	10.2	8.2	8.0	8.1	5.2	4.5	4.8
24	12.7	12.5	12.6	10.4	9.9	10.1	8.3	7.9	8.1	5.1	4.6	4.9
25	12.8	12.5	12.6	9.9	9.6	9.8	8.6	7.9	8.3	4.8	4.3	4.6
26	12.8	12.4	12.5	10.0	9.6	9.8	8.5	7.7	7.9	4.7	4.0	4.5
27	12.5	12.1	12.3	9.8	9.5	9.6	8.3	7.8	8.1	5.0	4.4	4.6
28	12.1	11.9	12.0	9.6	9.2	9.3	8.6	8.1	8.3	5.4	4.8	5.1
29	12.0	11.7	11.8	9.5	9.1	9.3	8.7	8.2	8.4	6.0	4.9	5.4
30	---	---	---	9.4	8.9	9.1	8.3	8.0	8.2	6.0	5.6	5.9
31	---	---	---	9.0	8.5	8.7	---	---	---	5.8	4.9	5.3
MONTH	13.7	11.7	13.0	11.9	8.4	10.1	9.9	7.7	8.7	---	---	---

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

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	5.0	4.5	4.8	5.7	5.0	5.3	6.3	5.7	6.0	6.3	5.5	6.0
2	5.0	4.6	4.8	5.5	4.9	5.2	6.5	5.7	6.1	6.2	5.7	6.0
3	5.0	4.5	4.8	5.8	4.5	5.0	6.2	5.6	5.8	6.1	5.7	5.9
4	5.0	4.6	4.8	5.8	3.7	5.1	6.1	5.6	5.9	6.1	5.4	5.8
5	4.9	4.6	4.7	6.0	3.6	5.1	6.0	5.3	5.6	6.5	5.1	5.7
6	4.8	4.4	4.6	5.7	4.6	5.2	5.7	5.2	5.4	6.5	5.3	6.0
7	5.0	4.7	4.8	5.4	4.1	5.0	5.7	5.1	5.3	5.5	4.9	5.2
8	5.0	4.7	4.8	5.6	4.1	5.2	5.5	4.9	5.2	5.3	4.7	4.9
9	5.1	4.7	4.9	5.6	3.2	5.0	5.7	5.1	5.4	5.2	4.7	5.0
10	5.1	4.9	5.0	5.9	3.8	5.1	5.7	4.7	5.1	5.3	4.8	5.0
11	5.1	4.7	4.9	5.8	2.7	4.7	5.4	4.6	4.8	5.4	4.7	5.1
12	5.0	4.9	5.0	6.2	5.5	5.9	6.0	5.0	5.4	5.2	4.8	5.0
13	6.1	4.9	5.5	6.1	4.6	5.3	5.9	5.1	5.4	5.8	5.2	5.5
14	6.5	4.5	6.1	6.0	3.3	5.0	5.8	5.0	5.3	6.0	5.7	5.8
15	6.4	5.2	6.0	6.1	3.8	5.3	5.9	4.8	5.3	6.1	5.6	6.0
16	6.3	5.6	6.0	6.0	4.2	5.3	6.0	4.7	5.2	6.2	5.9	6.0
17	6.2	5.5	5.9	6.1	3.7	5.1	6.1	4.8	5.4	6.1	5.8	6.0
18	6.1	4.5	5.6	5.7	3.8	5.0	5.7	4.8	5.3	6.2	5.7	5.9
19	6.3	4.1	5.7	---	---	---	5.4	4.9	5.1	6.3	5.5	5.8
20	6.3	5.3	5.7	7.3	6.1	6.7	6.0	5.0	5.3	5.8	5.4	5.6
21	5.7	5.1	5.4	6.2	5.3	5.8	6.6	5.3	5.6	6.4	5.7	6.2
22	6.1	5.1	5.5	5.9	4.9	5.3	6.0	5.0	5.4	6.4	6.0	6.3
23	6.0	5.2	5.6	7.0	5.0	5.9	5.6	4.8	5.2	6.1	6.0	6.1
24	5.6	4.8	5.1	6.3	5.7	6.0	5.9	5.2	5.5	6.2	5.8	5.9
25	5.4	4.9	5.1	6.5	5.9	6.1	6.0	4.8	5.3	---	---	---
26	5.9	5.0	5.4	6.5	6.1	6.3	5.8	5.2	5.4	5.6	5.3	5.4
27	6.0	5.4	5.7	6.2	5.6	6.0	6.1	5.3	5.7	5.3	4.9	5.1
28	6.0	4.3	5.7	6.2	5.7	5.9	6.5	5.6	6.0	5.4	5.0	5.1
29	6.0	5.5	5.7	6.2	5.7	6.0	6.5	5.8	6.1	5.9	5.0	5.5
30	5.7	5.4	5.6	6.2	5.6	5.8	7.1	5.9	6.4	6.2	5.6	5.8
31	---	---	---	6.1	5.5	5.8	6.5	5.7	5.9	---	---	---
MONTH	6.5	4.1	5.3	---	---	---	7.1	4.6	5.5	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	69	60	64
12	---	---	---	---	---	---	---	---	---	74	58	64
13	---	---	---	---	---	---	---	---	---	74	60	66
14	---	---	---	---	---	---	---	---	---	71	60	64
15	---	---	---	---	---	---	---	---	---	70	56	61
16	---	---	---	---	---	---	---	---	---	68	57	60
17	---	---	---	---	---	---	---	---	---	68	58	61
18	---	---	---	---	---	---	---	---	---	75	60	65
19	---	---	---	---	---	---	---	---	---	75	64	69
20	---	---	---	---	---	---	---	---	---	75	67	70
21	---	---	---	---	---	---	---	---	---	74	64	68
22	---	---	---	---	---	---	---	---	---	71	63	65
23	---	---	---	---	---	---	---	---	---	68	62	65
24	---	---	---	---	---	---	---	---	---	74	65	67
25	---	---	---	---	---	---	---	---	---	74	63	67
26	---	---	---	---	---	---	---	---	---	73	62	67
27	---	---	---	---	---	---	---	---	---	77	65	69
28	---	---	---	---	---	---	---	---	---	74	67	71
29	---	---	---	---	---	---	---	---	---	81	69	74
30	---	---	---	---	---	---	---	---	---	81	77	79
31	---	---	---	---	---	---	---	---	---	78	72	75
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

OXYGEN DISSOLVED (% OF SATURATION), TOP, PERIOD MAY 2000 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	82	70	72	81	69	74	73	62	67	72	60	67
2	81	70	74	76	67	70	76	66	70	70	66	67
3	79	71	74	78	67	72	75	66	70	69	64	66
4	79	72	74	83	71	75	74	69	72	68	62	65
5	76	73	74	96	74	79	75	68	71	74	59	64
6	80	72	75	97	70	78	76	69	72	74	59	65
7	83	75	78	96	71	78	80	72	74	60	54	57
8	80	76	79	101	70	78	79	71	74	66	53	57
9	---	---	---	87	69	78	77	69	72	62	55	57
10	---	---	---	103	82	88	75	63	67	66	56	58
11	---	---	---	91	74	82	64	57	60	67	56	59
12	---	---	---	96	79	85	77	62	68	67	59	62
13	---	---	---	90	74	79	76	64	68	72	65	68
14	---	---	---	83	68	74	73	62	66	75	71	72
15	86	78	82	90	73	78	79	63	66	80	72	75
16	87	79	82	99	74	82	95	62	73	76	70	73
17	88	79	82	90	72	78	82	63	68	74	70	71
18	94	80	84	112	70	87	80	60	66	73	68	70
19	89	80	84	---	---	---	76	58	62	73	64	68
20	84	75	79	84	68	79	71	56	62	71	64	68
21	83	73	76	68	61	64	75	58	64	77	70	75
22	85	75	79	72	58	63	75	54	62	77	72	75
23	80	77	79	80	61	68	70	55	63	74	72	73
24	77	73	75	70	62	64	82	60	66	74	70	72
25	77	72	75	70	64	66	72	57	63	---	---	---
26	81	73	78	70	63	66	76	60	67	69	64	66
27	82	77	79	64	60	62	78	66	71	67	61	64
28	81	76	78	67	60	62	73	63	67	68	60	62
29	78	73	76	65	61	62	72	62	65	68	60	64
30	78	71	74	65	59	62	74	62	67	69	64	66
31	---	---	---	67	59	62	73	63	67	---	---	---
MONTH	---	---	---	---	---	---	95	54	67	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	32	26	28	49	47	48	85	79	82	86	82	85
2	34	27	31	52	45	48	84	81	82	86	83	84
3	39	33	36	55	49	52	84	80	82	86	84	85
4	44	38	41	56	53	54	90	83	86	88	81	85
5	44	41	43	61	54	57	94	90	92	88	76	85
6	41	38	40	68	61	64	95	93	94	86	83	85
7	---	---	---	68	66	67	---	---	---	84	80	82
8	51	46	48	67	63	64	---	---	---	80	77	78
9	50	47	49	65	60	62	---	---	---	80	76	78
10	51	47	49	67	58	61	---	---	---	79	62	75
11	49	41	46	67	58	63	---	---	---	83	68	77
12	42	38	40	69	62	66	---	---	---	82	74	80
13	40	36	38	65	58	61	---	---	---	84	77	81
14	46	38	42	65	59	61	---	---	---	84	82	83
15	49	43	45	72	59	66	---	---	---	84	82	83
16	52	47	49	72	60	67	---	---	---	86	84	85
17	64	51	54	74	63	67	---	---	---	89	84	88
18	65	50	59	66	62	64	86	84	85	90	88	89
19	50	42	45	68	63	65	88	84	86	90	88	89
20	43	38	40	75	67	71	88	85	86	92	90	91
21	40	36	39	82	75	78	86	83	84	94	91	92
22	41	35	37	82	78	79	85	83	84	93	90	91
23	47	41	44	82	75	79	83	78	81	92	91	91
24	49	43	46	78	71	74	83	79	80	95	91	94
25	49	47	48	79	75	77	85	80	82	96	93	94
26	52	48	50	81	75	79	85	81	83	95	93	94
27	52	50	51	82	76	79	85	77	81	97	94	95
28	52	49	50	79	75	77	81	73	77	97	95	96
29	55	50	53	79	76	77	82	78	79	99	96	97
30	56	52	54	84	77	81	82	79	81	100	98	99
31	53	48	51	---	---	---	84	82	84	101	100	101
MONTH	---	---	---	84	45	67	---	---	---	101	62	87

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

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	102	99	100	107	104	106	87	79	82	84	80	82
2	104	101	102	106	104	105	86	78	81	85	81	83
3	103	100	102	106	103	104	91	84	87	81	77	79
4	102	100	101	105	102	104	95	91	94	77	74	76
5	103	101	102	105	103	104	96	92	94	77	72	75
6	104	101	102	105	101	103	97	93	95	75	70	73
7	104	102	103	107	102	103	97	92	94	73	67	70
8	106	103	104	106	98	101	95	92	94	70	66	68
9	106	103	105	105	100	103	95	92	94	70	65	67
10	106	103	105	104	96	100	95	91	93	---	---	---
11	106	104	105	106	95	100	95	91	93	66	60	63
12	107	106	106	102	99	100	94	90	92	67	60	64
13	107	105	106	99	88	93	93	90	92	68	62	64
14	108	106	107	94	88	90	92	90	91	65	60	62
15	107	105	106	94	86	90	91	86	89	62	56	59
16	108	105	106	89	83	85	88	84	86	60	54	57
17	108	107	107	92	88	90	88	84	86	59	57	58
18	108	105	107	95	91	93	88	84	86	66	58	62
19	106	105	105	96	87	91	88	84	86	65	61	63
20	108	106	107	97	92	95	86	81	83	66	57	62
21	109	107	108	94	92	93	86	84	85	67	57	62
22	108	106	107	95	93	94	86	83	84	62	56	58
23	107	104	105	96	94	95	84	81	83	61	54	58
24	108	105	106	96	93	94	85	81	83	60	54	57
25	109	107	108	95	91	93	86	80	84	57	51	54
26	109	108	108	96	92	94	86	77	79	57	48	53
27	109	107	108	94	92	93	82	78	81	61	52	55
28	108	107	108	94	89	92	84	80	81	66	57	62
29	108	105	107	93	89	91	85	80	82	70	59	64
30	---	---	---	91	86	89	82	80	81	69	65	67
31	---	---	---	88	83	85	---	---	---	66	57	61
MONTH	109	99	105	107	83	96	97	77	87	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	58	52	55	71	62	66	79	72	75	76	66	72
2	57	52	54	69	60	64	81	71	75	76	68	72
3	58	52	55	72	57	63	77	69	72	74	68	71
4	59	53	55	72	46	63	76	69	73	73	65	69
5	56	54	55	75	44	64	73	66	69	76	62	68
6	57	52	54	71	58	66	72	65	68	76	62	70
7	59	55	57	69	52	63	71	64	67	64	56	60
8	58	55	56	71	52	66	69	62	66	61	55	57
9	59	54	57	71	40	64	73	65	68	60	54	58
10	60	57	58	74	47	64	73	59	66	61	56	58
11	61	56	58	74	34	59	68	57	60	63	55	59
12	60	59	60	80	70	75	75	64	68	63	57	59
13	74	59	67	78	58	68	74	64	67	69	63	66
14	79	55	74	76	43	64	72	62	66	72	68	69
15	79	64	74	76	48	67	73	60	66	74	69	72
16	79	70	74	76	54	67	76	58	64	74	70	72
17	76	68	73	77	47	65	76	59	67	72	68	70
18	75	56	70	73	50	64	71	58	66	73	68	70
19	79	51	71	---	---	---	66	61	63	73	63	66
20	78	66	70	93	78	86	74	62	65	67	62	65
21	71	64	67	79	67	73	80	65	68	74	67	72
22	76	65	70	74	62	67	73	61	65	74	70	72
23	75	66	70	88	63	74	68	58	63	72	69	70
24	71	60	64	80	72	76	73	63	68	72	68	70
25	68	61	64	80	73	76	74	58	65	---	---	---
26	74	62	68	81	76	78	72	63	66	66	61	63
27	74	68	72	77	69	73	76	64	70	61	56	58
28	75	54	72	76	70	73	80	69	73	60	55	57
29	75	68	72	76	70	73	79	69	74	66	56	61
30	72	67	69	76	68	72	85	72	77	68	62	64
31	---	---	---	76	68	72	78	68	71	---	---	---
MONTH	79	51	64	---	---	---	85	57	68	---	---	---

02081500 TAR RIVER NEAR TAR RIVER, NC

LOCATION.--Lat 36°11'41", long 78°35'00", Granville County, Hydrologic Unit 03020101, on right bank 90 ft upstream from bridge on State Highway 96, 1.2 mi upstream from Fishing Creek, 2.5 mi east of town of Tar River, and 8 mi south of Oxford.

DRAINAGE AREA.--167 mi^2.

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

REVISED RECORDS.--WSP 972: 1940-41. WSP 1112: 1941 (calendar year figures). WSP 1273: 1941(M). WSP 1723:

GAGE.--Water-stage recorder and concrete control with sharp-crested weir. Datum of gage is 287.25 ft above sea level. Satellite telemetry at station

REMARKS.--Records good except those for estimated daily discharges which are fair. Occasional intermittent diversion for irrigation. Maximum discharge for period of record from rating curve extended above 11,500 ft^3/s, by logarithmic plotting. Minimum discharge for current water year also occurred Sept. 21, 22, 23.

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	536	40	66	46	818	183	106	292	57	85	74	30
2	243	44	55	45	514	152	95	191	45	44	104	30
3	162	111	49	43	393	129	105	149	36	30	122	95
4	119	104	45	46	440	112	200	118	31	22	339	140
5	97	66	41	269	520	101	170	94	35	18	299	135
6	79	53	41	202	486	89	124	81	34	16	138	70
7	64	49	40	133	460	82	97	70	32	16	68	40
8	54	46	37	103	565	78	89	62	27	20	44	28
9	47	40	34	88	412	73	416	56	24	26	33	22
10	44	38	34	558	332	69	263	52	22	21	46	18
11	47	36	40	925	298	65	160	47	20	16	50	16
12	60	36	40	305	511	64	123	42	18	484	33	14
13	57	34	38	e200	897	60	124	39	16	282	26	13
14	52	34	333	e150	581	56	307	37	16	87	74	11
15	51	33	420	118	530	54	294	33	17	204	44	9.9
16	44	32	201	100	298	57	335	30	83	128	27	8.7
17	104	31	136	90	228	2770	246	29	140	55	22	7.7
18	626	29	101	80	386	1390	1230	29	56	36	19	9.7
19	233	28	84	75	645	299	779	27	36	27	17	9.0
20	187	28	78	84	341	226	301	26	221	21	15	7.5
21	685	28	74	125	233	729	206	39	200	18	14	6.8
22	328	30	86	124	189	476	163	87	84	17	12	6.8
23	191	33	119	99	165	272	130	92	51	47	11	13
24	127	32	99	103	151	207	105	52	37	754	10	25
25	91	32	79	163	139	174	106	40	28	280	11	27
26	74	37	67	270	126	155	201	38	23	151	16	183
27	64	634	64	243	119	138	785	34	21	99	12	117
28	55	269	59	217	451	233	607	72	30	63	15	52
29	50	148	55	196	268	190	645	229	50	51	20	33
30	47	95	50	266	---	142	540	164	158	277	23	23
31	42	---	48	1510	---	122	---	85	---	127	27	---
TOTAL	4660	2250	2713	6976	11496	8947	9052	2436	1648	3522	1765	1201.1
MEAN	150	75.0	87.5	225	396	289	302	78.6	54.9	114	56.9	40.0
MAX	685	634	420	1510	897	2770	1230	292	221	754	339	183
MIN	42	28	34	43	119	54	89	26	16	16	10	6.8
CFSM	.90	.45	.52	1.35	2.37	1.73	1.81	.47	.33	.68	.34	.24
IN.	1.04	.50	.60	1.55	2.56	1.99	2.02	.54	.37	.78	.39	.27

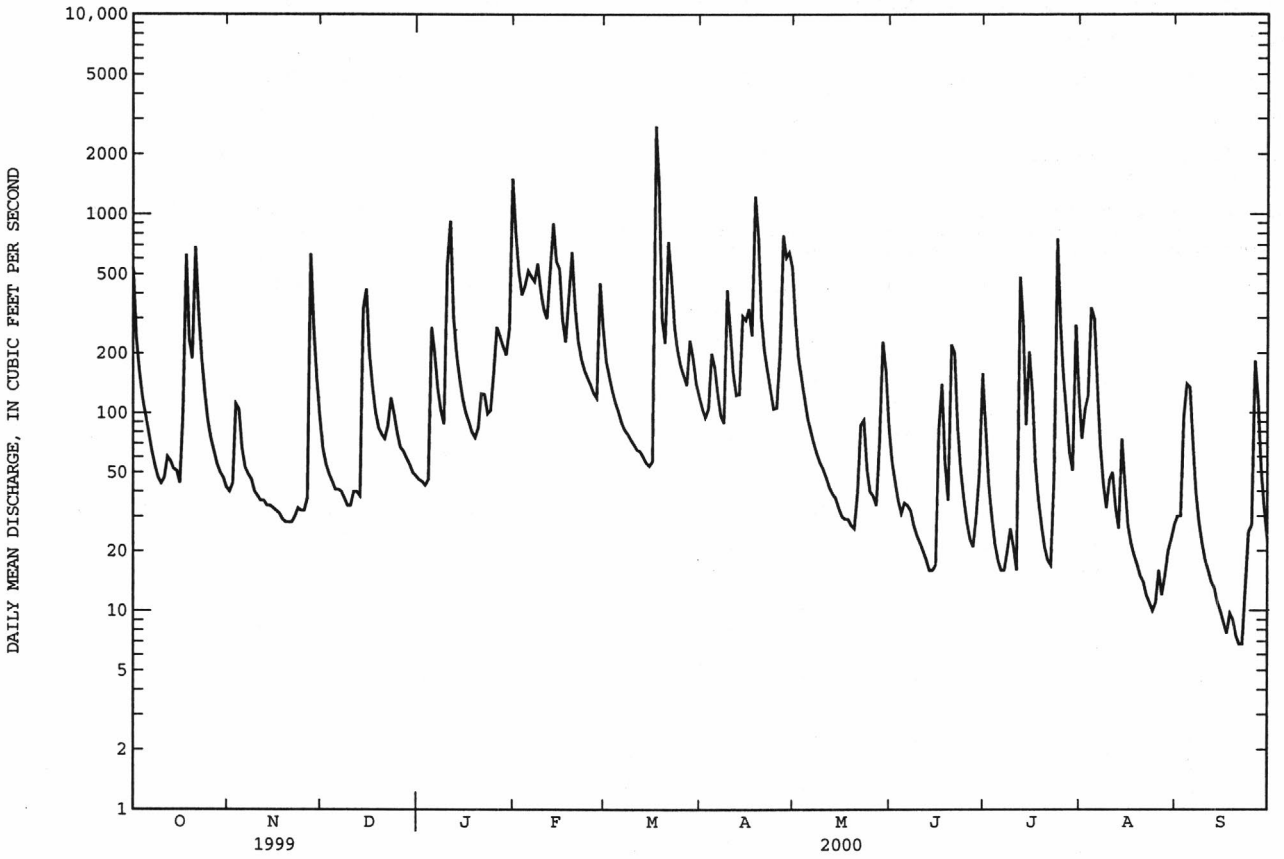
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	66.1	112	146	262	323	337	216	121	76.5	79.3	76.2	86.0
MAX	565	599	558	819	798	1047	676	475	488	677	542	939
(WY)	1972	1973	1973	1978	1960	1998	1978	1978	1982	1975	1955	1999
MIN	.41	.28	4.39	7.04	62.6	61.0	33.1	16.9	4.30	.92	1.39	.28
(WY)	1971	1942	1942	1942	1968	1981	1995	1941	1970	1966	1976	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	65504.53		56666.1			
ANNUAL MEAN	179		155		158	
HIGHEST ANNUAL MEAN					336	1973
LOWEST ANNUAL MEAN					51.0	1981
HIGHEST DAILY MEAN	7330	Sep 16	2770	Mar 17	10800	Sep 7 1996
LOWEST DAILY MEAN	.83	Sep 3	6.8	Sep 21	.02	Aug 13 1977
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 8	8.0	Sep 16	.07	Aug 8 1977
INSTANTANEOUS PEAK FLOW			4990	Mar 17	19900*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			11.36	Mar 17	24.06	Sep 6 1996
INSTANTANEOUS LOW FLOW			6.7*	Sep 18	.00	Aug 14 1977
ANNUAL RUNOFF (CFSM)	1.07		.93		.94	
ANNUAL RUNOFF (INCHES)	14.59		12.62		12.82	
10 PERCENT EXCEEDS	256		388		327	
50 PERCENT EXCEEDS	49		74		45	
90 PERCENT EXCEEDS	3.0		20		3.6	

e Estimated.
* See REMARKS.

02081500 TAR RIVER NEAR TAR RIVER, NC--Continued



02081747 TAR RIVER AT U.S. 401 AT LOUISBURG, NC

LOCATION.--Lat 36°05'34", long 78°17'48", Franklin County, Hydrologic Unit 03020101, on left bank 0.1 mi downstream of bridge on U.S. Highway 401 (Bickett Boulevard) at Louisburg, and 0.2 mi upstream from Fox Creek.

DRAINAGE AREA.--427 mi^2.

PERIOD OF RECORD.--October 1963 to current year. Published as "Tar River at Louisburg, NC" (02081740) October 1963 to September 1973. Prior to October 1972, medium- and high-water discharges only.

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

GAGE.--Water-stage recorder. Datum of gage is 176.71 ft above sea level. Prior to Nov. 21, 1973, nonrecording gage at bridge 0.4 mi upstream at 178.53 ft; Nov. 22, 1973, to June 24, 1980, at site 0.1 mi upstream at same datum. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good except for those estimated daily discharges, which are poor. Maximum discharge, 6,880 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 30, 1999; maximum peak discharge, 5,550 ft^3/s, July 24, gage height, 20.23 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of December 1934, September 1945, and August 1955 reached stages of 26, 24, and 24 ft, respectively, at site and datum 0.4 mi upstream, from U.S. Army Corps of Engineers.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5900	167	211	219	2890	515	311	721	212	361	463	289
2	e3100	234	185	216	2020	440	287	487	164	217	1010	213
3	e1000	359	176	214	1060	393	284	386	138	152	649	897
4	e730	322	172	219	975	358	351	314	157	122	640	847
5	e600	250	164	336	1120	331	416	268	187	105	2870	641
6	533	208	183	558	1140	311	340	240	161	95	e2000	477
7	467	190	205	402	1060	291	285	219	149	89	679	309
8	404	177	183	328	1180	283	272	197	127	94	391	229
9	346	170	173	296	1100	278	497	181	107	106	289	186
10	299	164	161	554	896	269	716	168	93	94	311	161
11	277	159	186	1850	790	264	444	154	84	86	365	143
12	265	156	178	1250	807	308	338	143	78	87	262	129
13	237	154	167	597	1790	275	295	136	75	549	210	122
14	197	150	713	475	1520	245	489	129	109	267	191	117
15	158	146	1500	393	1350	235	647	120	265	180	235	115
16	128	143	774	349	883	243	702	111	170	298	188	100
17	187	135	515	323	654	680	627	107	291	192	156	91
18	1570	129	418	306	661	2790	799	107	224	130	142	89
19	1520	128	362	290	1320	2910	1990	106	154	105	142	113
20	466	128	338	304	1010	615	901	102	222	104	129	125
21	880	130	321	340	673	806	525	128	430	98	116	112
22	985	141	322	353	552	1240	424	292	271	91	103	97
23	558	145	324	330	497	705	351	328	178	100	95	153
24	403	143	328	336	462	533	300	215	137	e4200	105	305
25	307	140	297	350	438	464	292	159	109	e3800	133	265
26	260	145	272	495	413	420	348	161	90	e1400	115	667
27	233	337	262	e600	393	388	638	149	86	e500	112	628
28	210	678	258	e500	566	464	1470	188	299	368	166	339
29	192	374	246	479	756	517	996	464	594	348	209	222
30	180	259	235	538	---	405	1000	519	571	464	167	173
31	173	---	226	1770	---	345	---	328	---	517	253	---
TOTAL	22765	6161	10055	15570	28976	18321	17335	7327	5932	15319	12896	8354
MEAN	734	205	324	502	999	591	578	236	198	494	416	278
MAX	5900	678	1500	1850	2890	2910	1990	721	594	4200	2870	897
MIN	128	128	161	214	393	235	272	102	75	86	95	89
CFSM	1.72	.48	.76	1.18	2.34	1.38	1.35	.55	.46	1.16	.97	.65
IN.	1.98	.54	.88	1.36	2.52	1.60	1.51	.64	.52	1.33	1.12	.73

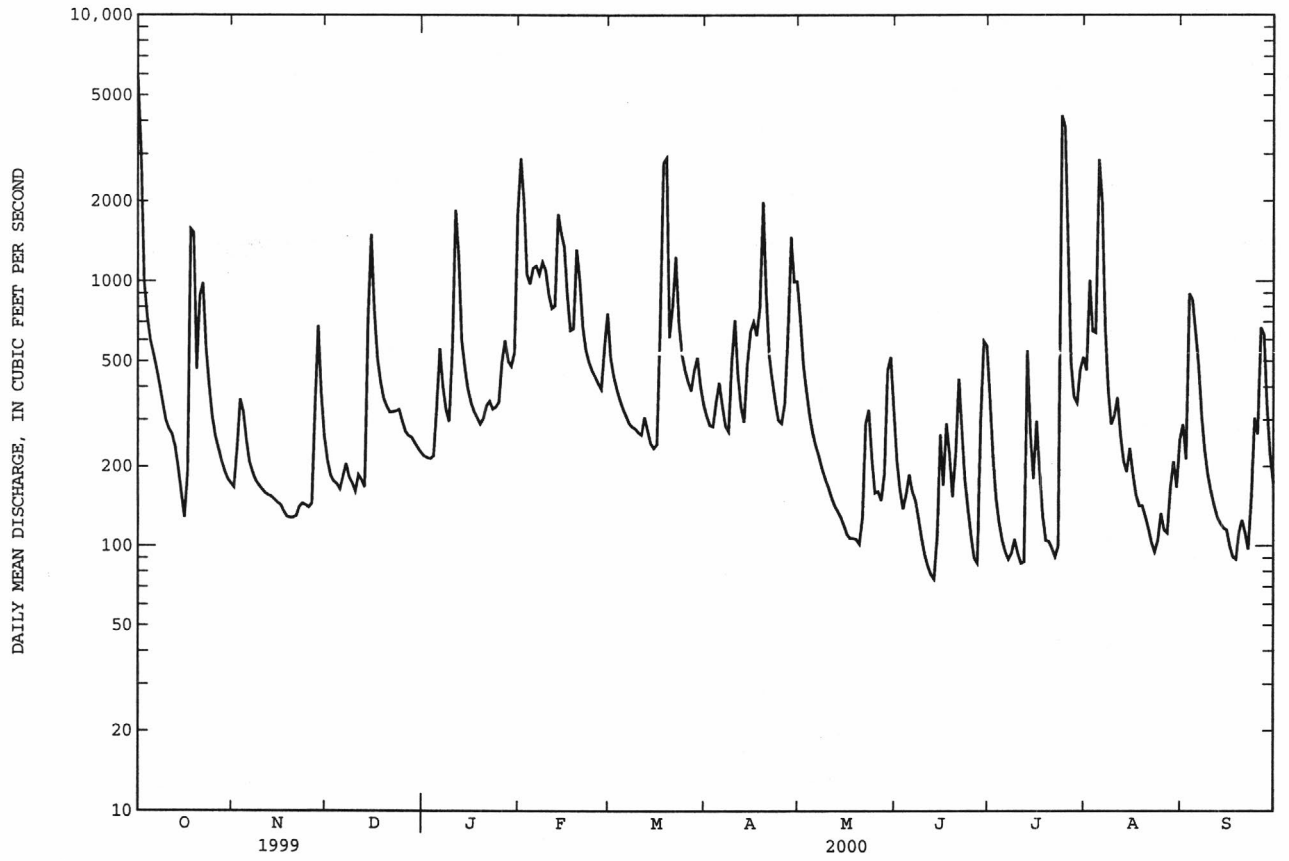
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	180	289	398	839	809	998	624	375	247	235	167	320
MAX	734	1192	1108	1845	1956	2726	1557	984	1451	1692	512	2949
(WY)	2000	1986	1984	1978	1998	1998	1993	1989	1982	1975	1986	1999
MIN	28.5	34.9	86.5	78.0	202	214	127	104	35.4	43.3	26.8	19.7
(WY)	1987	1999	1981	1981	1977	1988	1995	1995	1986	1986	1988	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	224723		169011			
ANNUAL MEAN	616		462		456	
HIGHEST ANNUAL MEAN					729	1984
LOWEST ANNUAL MEAN					131	1981
HIGHEST DAILY MEAN	22400	Sep 17	5900	Oct 1	22400	Sep 17 1999
LOWEST DAILY MEAN	10	Aug 8	75	Jun 13	8.1	Aug 14 1977
ANNUAL SEVEN-DAY MINIMUM	10	Aug 7	93	Jul 6	9.2	Sep 16 1985
INSTANTANEOUS PEAK FLOW			5500*	Jul 24	23700	Sep 17 1999
INSTANTANEOUS PEAK STAGE			20.23*	Jul 24	26.05	Sep 17 1999
INSTANTANEOUS LOW FLOW			70	Jun 14	7.3	Aug 14 1977
ANNUAL RUNOFF (CFSM)	1.44		1.08		1.07	
ANNUAL RUNOFF (INCHES)	19.58		14.72		14.51	
10 PERCENT EXCEEDS	1030		978		1010	
50 PERCENT EXCEEDS	204		290		208	
90 PERCENT EXCEEDS	34		113		41	

e Estimated.
* See REMARKS.

02081747 TAR RIVER AT U.S. 401 AT LOUISBURG, NC--Continued



02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC

LOCATION.--Lat 35°53'58", long 77°51'57", Nash County, Hydrologic Unit 03020101, near center of span on downstream side of bridge on Secondary Road 1544, 1.8 mi downstream of Tar River Reservoir, 2.8 mi downstream of Sapony Creek, 2.9 mi upstream from Grape Branch, and 5.0 mi southwest of Rocky Mount.

DRAINAGE AREA.--777 mi^2.

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 85.9 ft above sea level (levels by North Carolina State Highway Commission). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. The city of Rocky Mount diverted an average of 10.1 ft^3/s for municipal water supply, most of which was returned downstream of station as treated effluent. Minimum discharge for current water year due to regulation. Minimum discharge for period of record also occurred Oct. 29, 30, 1993. Maximum gage height for period of record from floodmarks.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5510	453	532	372	3590	1320	729	1870	727	1240	1790	1200
2	6740	724	418	366	4140	1050	630	1420	454	847	2100	1100
3	7880	1020	370	362	3980	852	572	996	335	388	2920	1550
4	6470	1080	352	377	2660	738	537	730	400	266	2550	4000
5	1770	1020	331	451	2200	678	545	566	338	250	2480	4110
6	e960	801	344	589	2230	615	633	472	320	225	4170	2890
7	731	616	e380	946	2190	571	578	411	294	191	4820	1960
8	600	517	e430	821	2020	536	512	370	283	165	2990	1290
9	511	466	409	672	2040	522	644	328	251	148	1210	842
10	456	437	394	958	1970	493	935	295	219	138	855	588
11	430	408	378	2110	1700	495	1280	262	188	128	653	463
12	415	409	389	3070	1620	493	951	251	163	e124	972	397
13	430	403	392	2680	1930	516	713	228	147	e122	858	329
14	427	396	572	1480	2760	520	617	210	139	176	587	302
15	449	372	1690	1050	2890	471	918	197	161	334	463	279
16	464	361	2580	832	2430	459	1350	187	295	261	369	261
17	1090	340	1870	685	1850	557	1430	179	479	244	325	244
18	4800	325	1170	629	1520	1070	1340	169	427	255	303	236
19	4810	312	870	581	1620	2680	1420	156	402	221	299	249
20	4400	303	753	591	2190	3400	2390	147	318	184	284	249
21	4010	291	674	649	1990	2090	1820	150	286	159	270	258
22	3550	296	636	681	1460	1620	1090	172	427	145	249	257
23	2930	315	627	740	1190	2000	815	221	467	133	227	419
24	1830	355	599	822	1040	1470	642	424	329	666	201	e1100
25	1250	368	581	1430	958	1100	569	407	269	4040	199	e1600
26	958	369	541	1430	876	903	593	313	233	6960	230	e3800
27	756	366	475	1500	834	821	640	274	191	8630	224	e3000
28	654	474	452	1370	834	937	e1200	251	155	5820	291	2190
29	579	1050	432	1070	995	1040	2190	480	285	1460	508	1860
30	522	789	413	1240	---	1110	2020	805	1120	1370	857	161
31	485	---	390	2440	---	915	---	1010	---	1570	1290	---
TOTAL	66867	15436	20444	32994	57707	32042	30303	13951	10102	36860	35544	37184
MEAN	2157	515	659	1064	1990	1034	1010	450	337	1189	1147	1239
MAX	7880	1080	2580	3070	4140	3400	2390	1870	1120	8630	4820	4110
MIN	415	291	331	362	834	459	512	147	139	122	199	161
CFSM	2.78	.66	.85	1.37	2.56	1.33	1.30	.58	.43	1.53	1.48	1.60
IN.	3.20	.74	.98	1.58	2.76	1.53	1.45	.67	.48	1.76	1.70	1.78

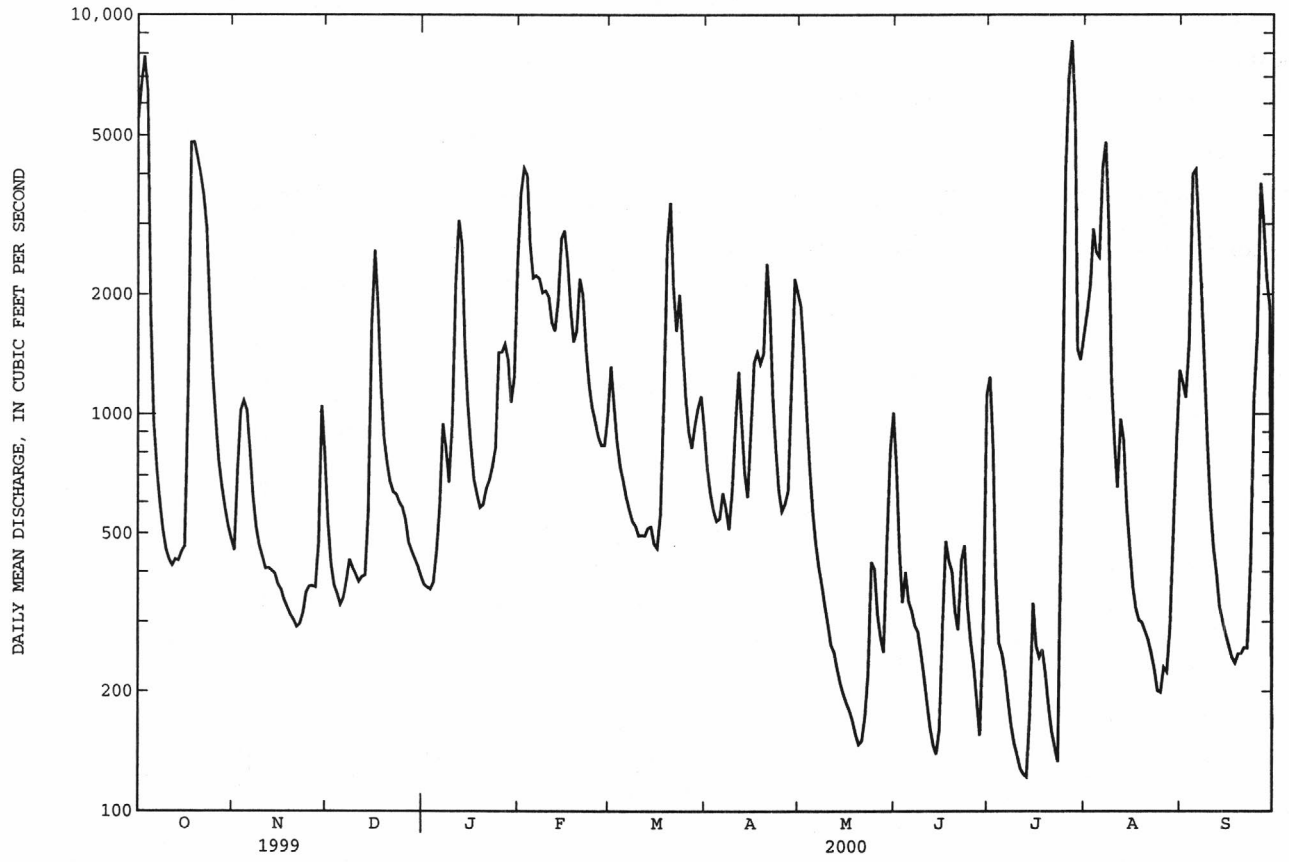
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY)

MEAN	383	535	733	1390	1439	1750	1117	717	520	470	376	582
MAX	2157	1876	2406	2794	3002	3829	2864	2123	2064	2321	1147	6436
(WY)	2000	1973	1973	1978	1998	1998	1987	1989	1982	1975	2000	1999
MIN	60.2	66.2	109	186	456	358	284	192	101	67.9	77.9	75.4
(WY)	1994	1981	1992	1981	1991	1981	1981	1995	1991	1986	1988	1993

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1972 - 2000	
ANNUAL TOTAL	435081		389434			
ANNUAL MEAN	1192		1064		833	
HIGHEST ANNUAL MEAN					1471	1973
LOWEST ANNUAL MEAN					211	1981
HIGHEST DAILY MEAN	25000	Sep 17	8630	Jul 27	25000	Sep 17 1999
LOWEST DAILY MEAN	84	Aug 25	122	Jul 13	29	Oct 28 1993
ANNUAL SEVEN-DAY MINIMUM	91	Jul 9	143	Jul 8	36	Oct 27 1993
INSTANTANEOUS PEAK FLOW			8820	Jul 27	29300	Sep 16 1999
INSTANTANEOUS PEAK STAGE			18.35	Jul 27	32.89*	Sep 16 1999
INSTANTANEOUS LOW FLOW			84	Sep 30	28*	Oct 28 1993
ANNUAL RUNOFF (CFSM)	1.53		1.37		1.07	
ANNUAL RUNOFF (INCHES)	20.83		18.64		14.56	
10 PERCENT EXCEEDS	2550		2450		1970	
50 PERCENT EXCEEDS	396		590		382	
90 PERCENT EXCEEDS	99		226		96	

e Estimated.
* See REMARKS.

02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC--Continued



02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC

LOCATION.--Lat 35°57'15", long 77°47'15", Edgecombe County, Hydrologic Unit 03020101, on left bank 20 ft downstream of bridge on State Highway 97, 0.5 mi upstream from Cowlick Branch, and 1.0 mi north-northeast of Rocky Mount.

DRAINAGE AREA.--925 mi^2.

PERIOD OF RECORD.--August 1976 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 53.88 ft above sea level. City of Rocky Mount telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Prior to October 1996, some regulation at low flow caused by mill above station. The city of Rocky Mount diverted an average of 20.4 ft^3/s for municipal water supply, most of which was returned downstream of station as treated effluent. Minimum discharge for current water year and period of record, result of regulation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7390	597	648	459	3910	1280	825	1800	891	1170	2100	1320
2	8010	1030	539	484	4770	1080	738	1420	597	906	2180	1200
3	8960	1330	482	471	4660	911	671	1030	450	532	2870	1340
4	8380	1290	468	481	3290	858	648	822	524	296	2690	3680
5	3450	1190	462	614	2390	718	542	694	452	306	2590	5010
6	1230	972	454	729	2290	703	710	516	398	303	3870	3970
7	894	772	477	998	2230	665	696	527	387	229	5250	2370
8	764	663	522	929	2030	638	599	482	343	186	4160	1380
9	671	610	552	782	1960	611	696	424	245	164	1520	929
10	607	577	527	1140	1920	599	928	403	250	152	990	702
11	578	544	508	2100	1670	586	1230	316	244	139	788	575
12	549	537	499	3120	1640	607	1000	304	181	131	955	503
13	556	536	506	3080	1940	606	802	301	153	123	905	402
14	556	529	671	1680	2640	612	723	151	143	119	688	407
15	554	504	1510	1140	3020	589	925	317	141	285	563	369
16	592	493	2580	953	2530	555	1370	197	185	307	452	313
17	1730	475	2230	772	1930	661	1450	157	538	264	401	311
18	7670	455	1300	758	1580	1030	1350	187	497	280	392	319
19	7230	431	976	689	1610	2270	1260	183	497	258	443	273
20	6370	419	843	736	2100	3060	2040	175	425	263	307	313
21	5860	409	795	783	2060	2310	1790	169	306	196	368	329
22	4660	406	759	815	1510	1510	1080	200	459	152	270	365
23	4160	420	747	879	1220	1870	854	253	547	523	286	567
24	2610	475	728	954	1080	1460	729	464	402	966	214	1120
25	1540	495	668	1670	1000	1100	624	504	368	3490	212	1590
26	1140	498	682	1700	922	927	660	390	261	6620	257	3700
27	918	494	574	1710	900	873	684	348	202	9370	263	3220
28	810	541	565	1540	915	995	989	526	170	8370	324	2690
29	729	986	556	1200	993	1110	1930	880	382	2740	559	1980
30	666	870	533	1430	---	1140	1920	889	984	1490	959	398
31	630	---	517	2790	---	978	---	1080	---	2070	1430	---
TOTAL	90464	19548	23878	37586	60710	32912	30463	16109	11622	42400	39256	41645
MEAN	2918	652	770	1212	2093	1062	1015	520	387	1368	1266	1388
MAX	8960	1330	2580	3120	4770	3060	2040	1800	984	9370	5250	5010
MIN	549	406	454	459	900	555	542	151	141	119	212	273
CFSM	3.15	.70	.83	1.31	2.26	1.15	1.10	.56	.42	1.48	1.37	1.50
IN.	3.64	.79	.96	1.51	2.44	1.32	1.23	.65	.47	1.71	1.58	1.67

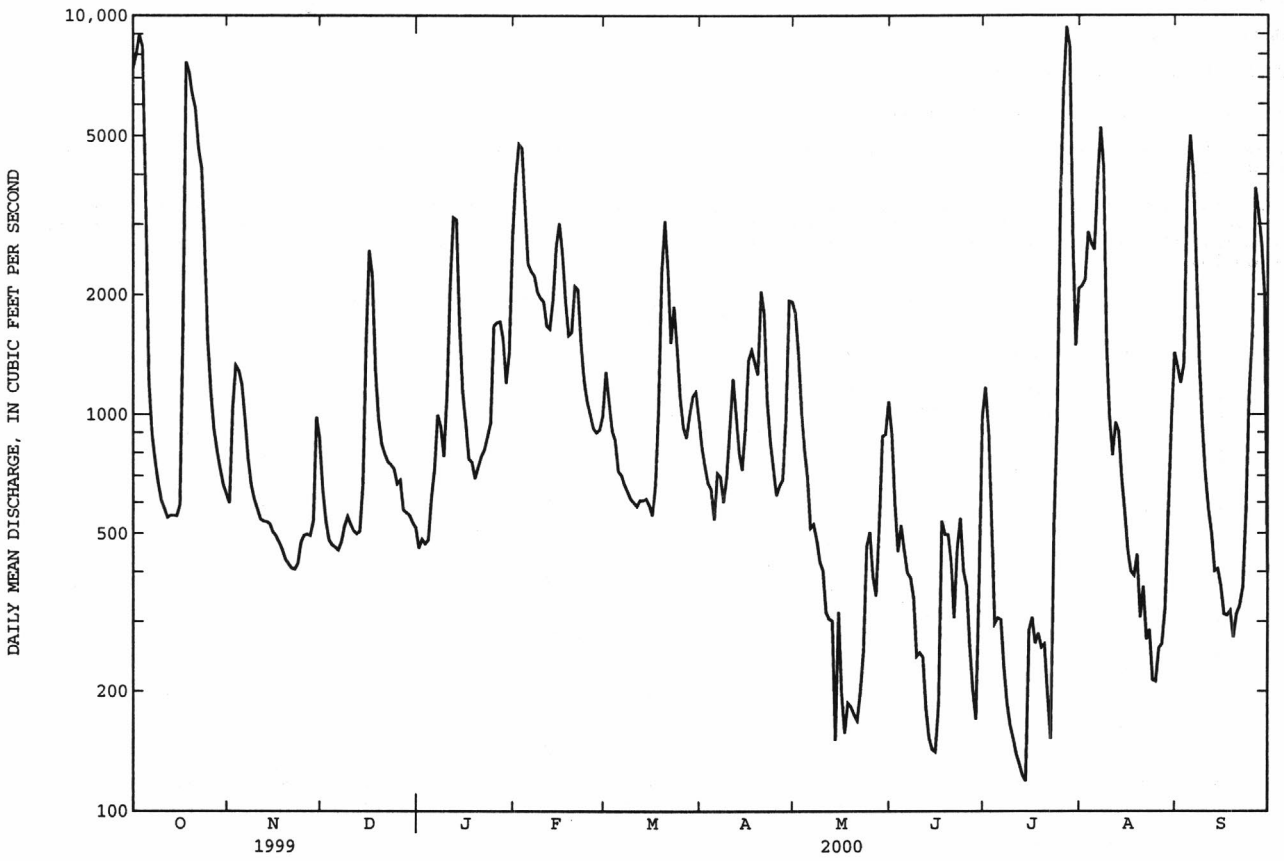
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

MEAN	472	587	777	1605	1653	2098	1313	857	610	416	416	725
MAX	2918	1905	1720	3230	3920	4507	3447	2725	2238	1368	1266	8135
(WY)	2000	1980	1984	1978	1998	1998	1987	1989	1982	2000	2000	1999
MIN	70.4	74.5	125	254	546	477	332	210	118	54.1	79.7	70.6
(WY)	1981	1981	1992	1981	1977	1981	1995	1995	1999	1986	1987	1993

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	542455		446593			
ANNUAL MEAN	1486		1220		977	
HIGHEST ANNUAL MEAN					1500	1984
LOWEST ANNUAL MEAN					262	1981
HIGHEST DAILY MEAN	31500	Sep 17	9370	Jul 27	31500	Sep 17 1999
LOWEST DAILY MEAN	63	Jun 6	119	Jul 14	6.6	Oct 3 1983
ANNUAL SEVEN-DAY MINIMUM	83	Jun 5	145	Jul 8	31	Oct 18 1993
INSTANTANEOUS PEAK FLOW			9760	Jul 27	34100	Sep 17 1999
INSTANTANEOUS PEAK STAGE			21.54	Jul 27	31.66	Sep 17 1999
INSTANTANEOUS LOW FLOW			44*	May 14	5.7*	Sep 23 1988
ANNUAL RUNOFF (CFSM)	1.61		1.32		1.06	
ANNUAL RUNOFF (INCHES)	21.82		17.96		14.35	
10 PERCENT EXCEEDS	3350		2660		2250	
50 PERCENT EXCEEDS	552		702		452	
90 PERCENT EXCEEDS	94		264		96	

* See REMARKS.

02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC--Continued



02082770 SWIFT CREEK AT HILLIARDSTON, NC

LOCATION.--Lat 36°06'42", long 77°55'16", Nash County, Hydrologic Unit 03020101, near left bank at downstream side of bridge on Secondary Road 1310, 0.7 mi northeast of Hilliardston, and 2.8 mi downstream of Gideon Swamp.

DRAINAGE AREA.--166 mi^2.

PERIOD OF RECORD.--July 1963 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 130.42 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for Oct. and Nov. and those for periods of estimated discharges which are poor. Maximum discharge for period of record, on basis of slope-conveyance of peak flow; maximum gage height for period of record, 21.30 ft, from flood marks. Minimum discharge for current water year also occurred July 19, 20.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1924 reached a stage of 14.5 ft, from information by North Carolina State Highway Commission, discharge not determined.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e990	113	e106	121	738	181	128	186	127	318	562	250
2	e884	192	97	118	590	163	120	145	101	179	632	186
3	743	326	94	117	482	144	117	129	86	125	674	467
4	336	238	95	120	410	137	118	121	74	88	726	897
5	229	238	95	168	393	132	121	108	71	74	1060	728
6	e187	181	97	168	365	128	122	100	75	65	1330	493
7	157	150	121	163	342	124	113	93	78	52	1040	265
8	135	136	128	155	320	125	109	87	72	46	880	178
9	121	125	114	141	302	121	222	82	68	43	296	145
10	106	122	110	357	297	121	200	76	61	40	173	126
11	104	115	110	641	268	116	166	71	51	35	173	115
12	104	116	109	428	263	118	136	66	44	35	237	105
13	90	116	104	298	343	128	120	64	37	33	176	97
14	80	112	421	213	378	129	142	61	32	31	149	91
15	64	108	539	174	389	121	211	57	54	28	135	89
16	46	107	440	160	307	116	281	51	77	26	113	88
17	243	e106	412	153	260	149	214	48	70	24	e98	77
18	1260	105	228	145	272	155	197	46	70	17	e94	74
19	825	103	182	142	352	187	189	47	93	16	100	85
20	821	103	171	147	324	176	169	46	124	19	94	111
21	1270	104	167	168	282	188	153	50	95	23	80	91
22	668	105	165	160	223	228	134	89	79	30	71	81
23	367	107	164	149	193	223	120	141	70	33	65	118
24	271	108	155	168	178	183	111	120	64	800	61	234
25	222	113	145	276	170	152	108	104	54	5650	58	197
26	186	114	137	267	163	138	117	90	53	3940	57	395
27	163	129	133	242	159	136	129	83	44	1990	59	479
28	145	131	132	217	177	206	196	111	37	579	141	303
29	131	118	130	221	177	195	267	179	331	189	199	226
30	122	e114	126	255	---	154	259	168	460	231	145	153
31	116	---	124	735	---	139	---	151	---	375	194	---
TOTAL	11186	4055	5351	6987	9117	4713	4789	2970	2752	15134	9872	6944
MEAN	361	135	173	225	314	152	160	95.8	91.7	488	318	231
MAX	1270	326	539	735	738	228	281	186	460	5650	1330	897
MIN	46	103	94	117	159	116	108	46	32	16	57	74
CFSM	2.17	.81	1.04	1.36	1.89	.92	.96	.58	.55	2.94	1.92	1.39
IN.	2.51	.91	1.20	1.57	2.04	1.06	1.07	.67	.62	3.39	2.21	1.56

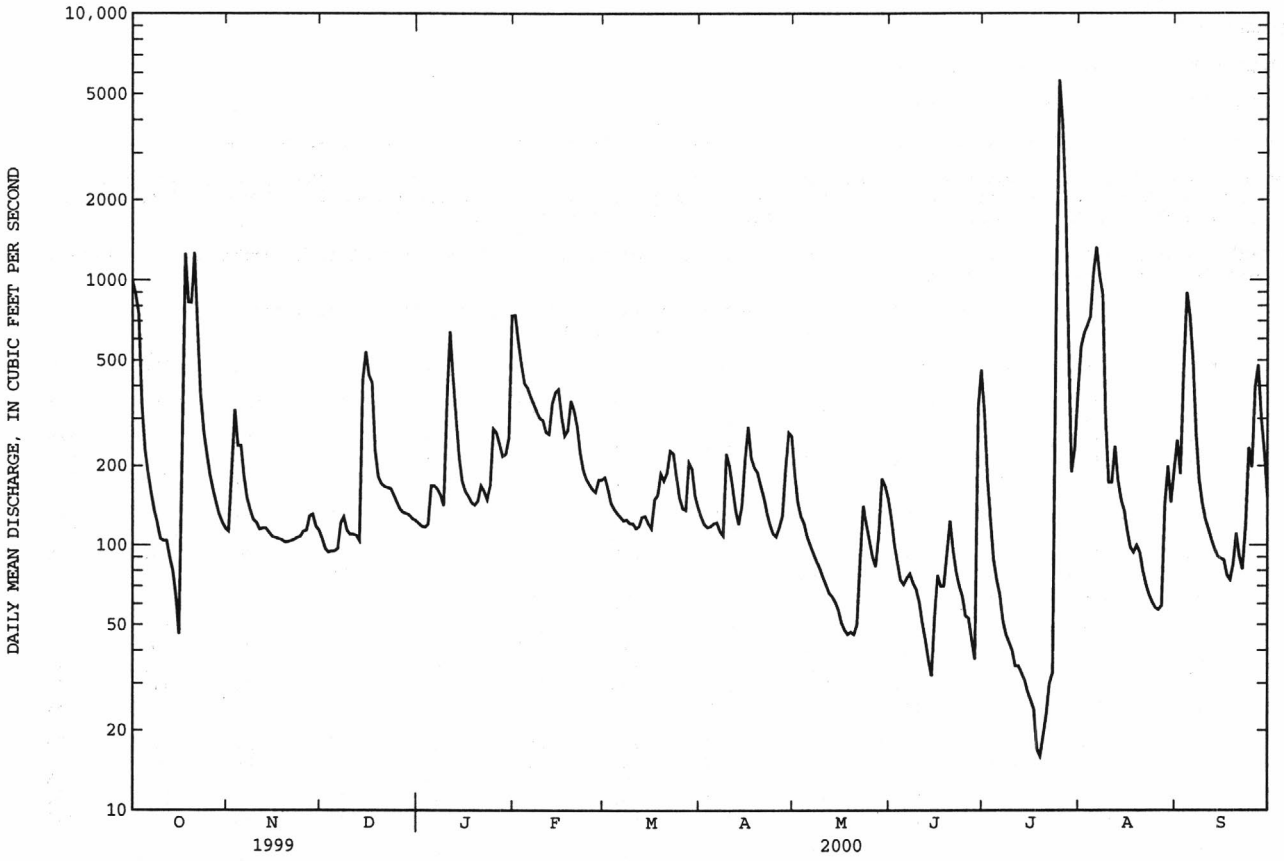
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	94.0	116	150	246	285	304	219	148	124	105	89.5	133
MAX	420	436	382	500	605	718	774	466	468	488	326	2180
(WY)	1972	1986	1973	1987	1998	1998	1987	1984	1979	2000	1986	1999
MIN	9.65	27.8	37.3	59.5	92.6	77.6	72.9	47.5	26.4	12.3	10.2	4.90
(WY)	1971	1982	1966	1981	1968	1988	1981	1995	1981	1981	1993	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	117255.3		83870			
ANNUAL MEAN	321		229		168	
HIGHEST ANNUAL MEAN					290	1984
LOWEST ANNUAL MEAN					20.2	1963
HIGHEST DAILY MEAN	22000	Sep 17	5650	Jul 25	22000	Sep 17 1999
LOWEST DAILY MEAN	2.0	Aug 25	16	Jul 19	.60	Sep 25 1968
ANNUAL SEVEN-DAY MINIMUM	3.1	Aug 19	22	Jul 15	1.1	Sep 21 1968
INSTANTANEOUS PEAK FLOW			6920	Jul 25	23000*	Sep 17 1999
INSTANTANEOUS PEAK STAGE			15.25	Jul 25	21.30*	Sep 17 1999
INSTANTANEOUS LOW FLOW			14*	Jul 18	.60	Sep 25 1968
ANNUAL RUNOFF (CFSM)	1.94		1.38		1.01	
ANNUAL RUNOFF (INCHES)	26.28		18.79		13.71	
10 PERCENT EXCEEDS	492		415		349	
50 PERCENT EXCEEDS	112		134		94	
90 PERCENT EXCEEDS	12		59		24	

e Estimated.
* See REMARKS.

02082770 SWIFT CREEK AT HILLIARDSTON, NC--Continued



02082950 LITTLE FISHING CREEK NEAR WHITE OAK, NC

LOCATION.--Lat 36°11'08", long 77°52'34", Halifax County, Hydrologic Unit 03020102, on right bank 8 ft downstream of bridge on Secondary Road 1338, 1.1 mi west of White Oak, 1.8 mi upstream from Powells Creek, 4.3 mi upstream from mouth, and 12 mi west of Enfield.

DRAINAGE AREA.--177 mi^2.

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WSP 1723: 1960(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 116.44 ft above sea level. Feb. 14, 1962, to Apr. 23, 1979, auxiliary nonrecording gage 3.6 mi downstream. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 6,900 ft^3/s on basis of slope-conveyance study of peak flow. Maximum gage height for period of record, from flood marks. Minimum discharge for current water year also occurred July 22, 23.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1959 reached a stage of 19.3 ft, from flood marks; discharge not determined.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	805	111	95	110	1130	177	136	157	194	243	258	294
2	448	161	89	107	818	161	124	121	127	127	706	285
3	232	368	88	106	464	149	120	102	95	83	552	333
4	170	292	89	110	439	139	142	89	77	61	555	672
5	e144	200	89	187	449	133	143	79	71	49	1280	1030
6	e120	158	93	228	433	128	122	71	73	44	855	699
7	e106	141	132	176	398	122	110	65	80	42	347	230
8	e110	131	138	159	375	120	108	59	74	39	197	168
9	e90	123	114	143	351	120	340	53	59	36	149	137
10	e86	120	104	381	308	118	369	49	51	32	135	116
11	e110	120	109	853	278	115	203	45	45	30	128	101
12	e100	118	108	635	278	118	150	40	40	29	141	92
13	e94	116	104	285	441	133	130	38	37	31	206	84
14	87	114	402	208	410	119	243	36	35	35	183	78
15	83	113	746	170	350	110	480	32	40	32	137	76
16	77	109	714	153	275	113	694	29	44	32	107	73
17	220	104	299	150	226	166	611	28	48	29	94	65
18	1440	99	199	140	261	284	343	27	48	27	86	61
19	1340	96	172	135	428	188	396	26	74	24	84	64
20	799	96	164	146	358	150	291	25	68	25	80	82
21	1010	97	165	173	260	223	199	29	55	23	71	78
22	712	98	164	162	213	317	161	77	49	22	64	67
23	376	99	163	141	193	223	132	127	62	23	58	96
24	244	101	149	165	182	176	112	92	49	1640	54	204
25	188	102	136	252	176	153	106	67	38	4460	52	175
26	161	108	125	282	170	139	150	60	32	2870	52	559
27	145	139	124	267	166	135	191	52	28	1250	53	701
28	133	141	124	243	193	284	237	142	41	335	73	351
29	123	119	121	251	206	257	283	536	439	191	140	183
30	117	105	116	253	---	180	228	771	537	230	159	140
31	113	---	113	944	---	150	---	517	---	246	229	---
TOTAL	9983	3999	5548	7715	10229	5100	7054	3641	2710	12340	7285	7294
MEAN	322	133	179	249	353	165	235	117	90.3	398	235	243
MAX	1440	368	746	944	1130	317	694	771	537	4460	1280	1030
MIN	77	96	88	106	166	110	106	25	28	22	52	61
CFSM	1.82	.75	1.01	1.41	1.99	.93	1.33	.66	.51	2.25	1.33	1.37
IN.	2.10	.84	1.17	1.62	2.15	1.07	1.48	.77	.57	2.59	1.53	1.53

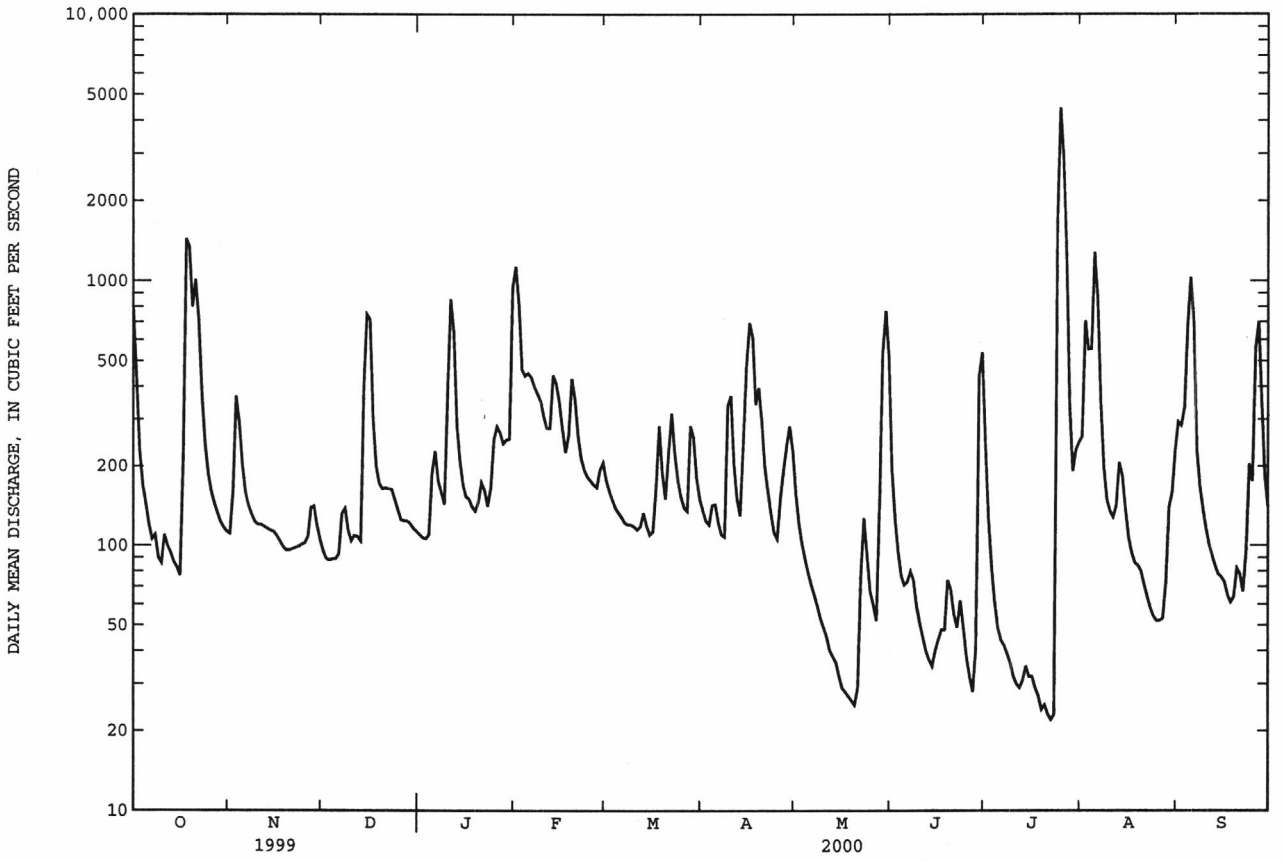
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000, BY WATER YEAR (WY)

MEAN	105	120	155	261	331	340	227	138	98.5	91.7	78.4	105
MAX	982	860	482	570	742	873	720	550	300	602	330	1947
(WY)	1973	1986	1973	1962	1984	1998	1987	1984	1965	1975	1967	1999
MIN	3.78	10.2	24.9	37.6	83.4	83.0	56.8	35.7	15.1	9.58	4.21	2.34
(WY)	1971	1999	1995	1981	1991	1981	1967	1995	1986	1981	1993	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000	
ANNUAL TOTAL	103887.5		82898			
ANNUAL MEAN	285		226		170	
HIGHEST ANNUAL MEAN					327	1973
LOWEST ANNUAL MEAN					47.2	1981
HIGHEST DAILY MEAN	20000	Sep 17	4460	Jul 25	20000	Sep 17 1999
LOWEST DAILY MEAN	2.7	Aug 24	22	Jul 22	.78	Sep 4 1980
ANNUAL SEVEN-DAY MINIMUM	3.1	Aug 19	25	Jul 17	1.1	Sep 26 1968
INSTANTANEOUS PEAK FLOW			4870	Jul 25	31000*	Sep 16 1999
INSTANTANEOUS PEAK STAGE			19.09	Jul 25	30.80*	Sep 16 1999
INSTANTANEOUS LOW FLOW			22*	Jul 21	.72	Sep 5 1980
ANNUAL RUNOFF (CFSM)	1.61		1.28		.96	
ANNUAL RUNOFF (INCHES)	21.83		17.42		13.06	
10 PERCENT EXCEEDS	391		448		358	
50 PERCENT EXCEEDS	99		134		79	
90 PERCENT EXCEEDS	7.3		44		15	

e Estimated.
* See REMARKS.

02082950 LITTLE FISHING CREEK NEAR WHITE OAK, NC--Continued



02083000 FISHING CREEK NEAR ENFIELD, NC

LOCATION.--Lat 36°09'03", long 77°41'35", Edgecombe County, Hydrologic Unit 03020102, on right bank 15 ft downstream of bridge on U.S. Highway 301, 2,000 ft downstream of Seaboard Coast Line Railroad bridge, 2 mi southwest of Enfield, 4.8 mi downstream of Rocky Creek, and 40 mi upstream from mouth.

DRAINAGE AREA.--526 mi^2.

PERIOD OF RECORD.--October 1923 to current year. Daily discharges below 250 ft^3/s, Oct. 1, 1923 to July 3, 1924; below 350 ft^3/s, May 30, 1925 to May 31, 1926; below 150 ft^3/s, June 1 to Nov. 16, 1926; and below 100 ft^3/s, Nov. 17, 1926 to Sept. 30, 1928 published in WSP 622, 642, and 662 are unreliable and should not be used. Gage-height records collected at site 2,000 ft upstream at different datum July 1, 1910 to Apr. 30, 1914, and at present site and datum since May 1, 1914 are contained in reports of National Weather Service, NOAA, U.S. Department of Commerce.

REVISED RECORDS.--WSP 872: 1935(M). WSP 1333: 1928(M), 1932-33, 1935. WDR NC-81-1: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 74.26 ft above sea level. Prior to Oct. 28, 1932, nonrecording gage and Oct. 29, 1932, to Sept. 30, 1992, at same site at datum 76.26 ft. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records fair. Slight diurnal fluctuation and some regulation at low flow caused by upstream mills.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Apr. 19, 1910, reached a stage of 20.1 ft, at datum 76.26 ft (from floodmarks of Seaboard Coast Line Railroad Co.) at site 2,000 ft upstream. Flood of July 24, 1919, reached a stage of 19.6 ft at datum 76.26 ft; discharge, 20,300 ft^3/s.

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

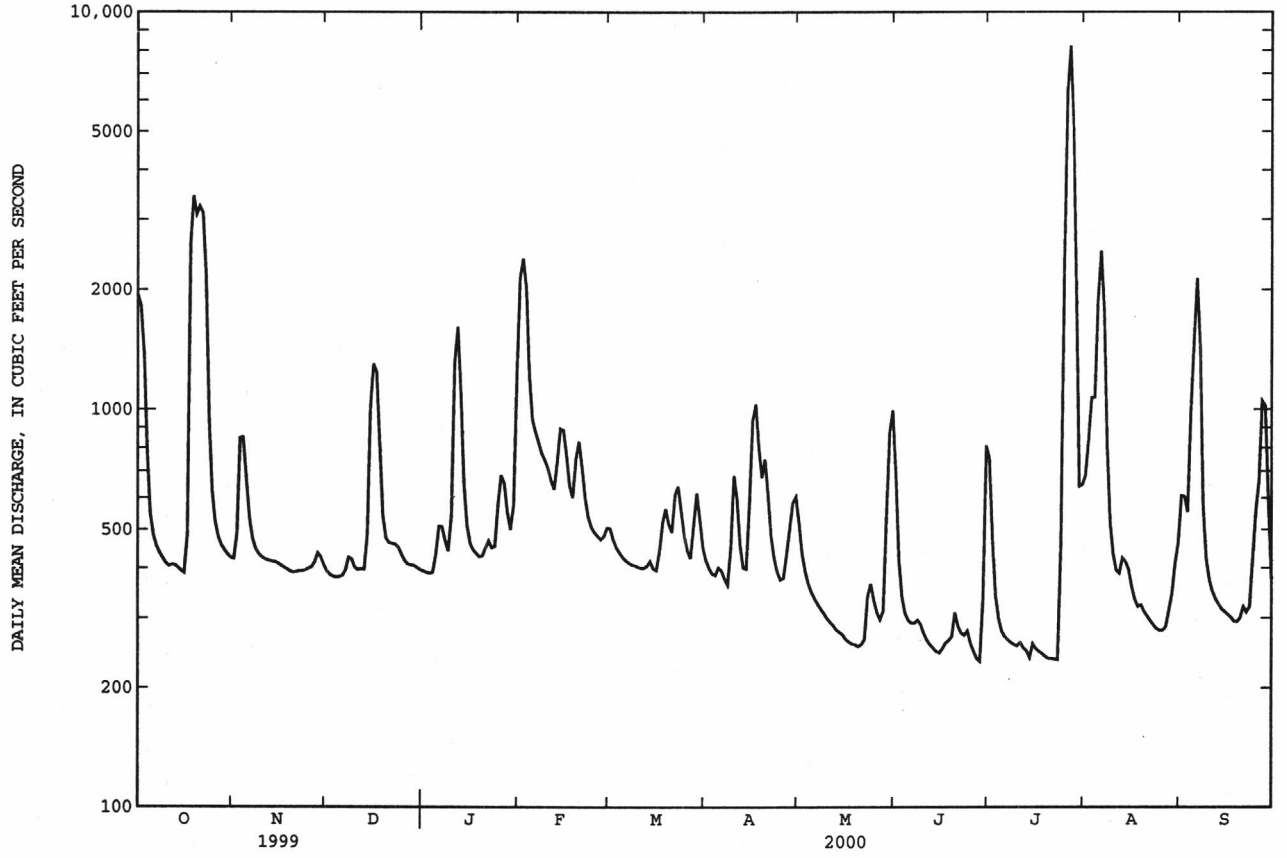
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	422	393	393	2140	503	418	519	687	753	682	607
2	1820	489	385	390	2390	472	400	434	419	474	837	605
3	1390	848	381	388	2020	451	387	392	339	343	1070	553
4	795	851	379	390	1210	438	384	365	308	299	1070	975
5	549	669	380	432	944	427	401	348	296	278	1890	1480
6	484	535	383	509	877	419	394	335	291	269	2500	2130
7	455	474	395	508	827	413	376	325	291	264	1760	1450
8	437	447	425	469	775	408	363	316	296	260	808	572
9	424	434	421	441	747	406	449	308	289	257	518	422
10	412	426	401	541	711	403	682	299	275	255	434	375
11	405	421	396	1300	664	400	595	293	264	260	395	350
12	408	418	398	1610	631	400	458	287	257	252	388	335
13	407	416	397	1110	739	405	401	280	252	248	424	325
14	401	415	485	654	895	416	398	276	247	238	415	316
15	394	412	1010	512	887	399	586	272	245	258	397	311
16	389	407	1300	462	767	395	938	265	251	251	360	306
17	484	402	1240	445	643	441	1030	261	259	247	334	301
18	2600	398	818	436	601	518	801	258	263	244	320	294
19	3440	393	541	427	751	564	676	257	269	240	323	293
20	3090	390	476	429	831	515	750	254	309	237	311	300
21	3240	391	463	449	714	492	608	257	286	237	303	320
22	3120	393	461	468	598	612	480	265	275	236	295	310
23	2160	393	459	450	536	641	425	340	271	235	288	320
24	956	395	451	453	506	555	392	365	278	453	282	425
25	625	399	433	577	491	483	374	332	259	2220	279	557
26	522	402	418	683	481	443	377	309	247	6310	279	663
27	479	413	409	653	472	423	431	297	237	8210	285	1050
28	457	436	407	552	480	511	501	312	233	5080	313	1020
29	444	426	406	500	504	617	583	548	337	1900	345	589
30	433	407	401	574	---	530	604	878	811	641	411	375
31	425	---	396	1230	---	451	---	993	---	647	464	---
TOTAL	33585	13722	15708	18435	24832	14551	15662	11240	9341	32096	18780	17929
MEAN	1083	457	507	595	856	469	522	363	311	1035	606	598
MAX	3440	851	1300	1610	2390	641	1030	993	811	8210	2500	2130
MIN	389	390	379	388	472	395	363	254	233	235	279	293
CFSM	2.06	.87	.96	1.13	1.63	.89	.99	.69	.59	1.97	1.15	1.14
IN.	2.38	.97	1.11	1.30	1.76	1.03	1.11	.79	.66	2.27	1.33	1.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2000, BY WATER YEAR (WY)

MEAN	271	331	479	725	871	901	688	433	314	306	322	324
MAX	2035	1948	1391	2303	2145	2158	2049	2174	1255	1483	1828	5122
(WY)	1930	1986	1935	1936	1960	1989	1987	1958	1938	1975	1940	1999
MIN	14.0	26.0	46.0	60.4	198	248	170	128	70.6	42.8	26.8	14.2
(WY)	1934	1934	1934	1934	1934	1981	1967	1995	1986	1981	1993	1980

02083000 FISHING CREEK NEAR ENFIELD, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1927 - 2000	
ANNUAL TOTAL	295457.5		225881			
ANNUAL MEAN	809		617		496	
HIGHEST ANNUAL MEAN					871	1984
LOWEST ANNUAL MEAN					148	1981
HIGHEST DAILY MEAN	29200	Sep 18	8210	Jul 27	29200	Sep 18 1999
LOWEST DAILY MEAN	7.5	Aug 25	233	Jun 28	6.9	Oct 5 1968
ANNUAL SEVEN-DAY MINIMUM	9.1	Aug 19	239	Jul 17	8.1	Sep 30 1968
INSTANTANEOUS PEAK FLOW			8850	Jul 27	30100	Sep 18 1999
INSTANTANEOUS PEAK STAGE			18.57	Jul 27	21.65	Sep 18 1999
INSTANTANEOUS LOW FLOW			230	Jun 28		
ANNUAL RUNOFF (CFSM)	1.54		1.17		.94	
ANNUAL RUNOFF (INCHES)	20.90		15.97		12.80	
10 PERCENT EXCEEDS	1350		998		1080	
50 PERCENT EXCEEDS	375		424		273	
90 PERCENT EXCEEDS	49		268		69	



02083500 TAR RIVER AT TARBORO, NC

LOCATION.--Lat 35°53'38", long 77°32'00",. Edgecombe County, Hydrologic Unit 03020103, near right bank on downstream end of pier of bridge on U.S. Highway 64 in Tarboro, 6.5 mi downstream of Fishing Creek, and 49.2 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,183 mi^2.

PERIOD OF RECORD.--July 1896 to December 1900, October 1931 to current year. Gage-height records at various datums collected at same site since 1905 are contained in reports of National Weather Service, NOAA, U.S. Department of Commerce.

REVISED RECORDS.--WSP 1273: 1899-1900, 1933. WSP 1503: 1932. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 10.37 ft above sea level. July 1896 to December 1900, nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft downstream at different datum; Oct. 1 to Dec. 8, 1931, nonrecording gage at site 100 ft upstream at present datum. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some diurnal fluctuation at low flow caused by mills upstream from station. Maximum gage height for period of record, from floodmarks. Town of Tarboro diverted 5.1 ft^3/s for municipal water supply. Minimum discharge for period of record also occurred Oct. 22, 1933, and Oct. 6, 1968. Minimum discharge for current water year also occurred July 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 27, 1919, reached a stage of 34.0 ft, present datum, from flood marks; discharge, 52,800 ft^3/s.

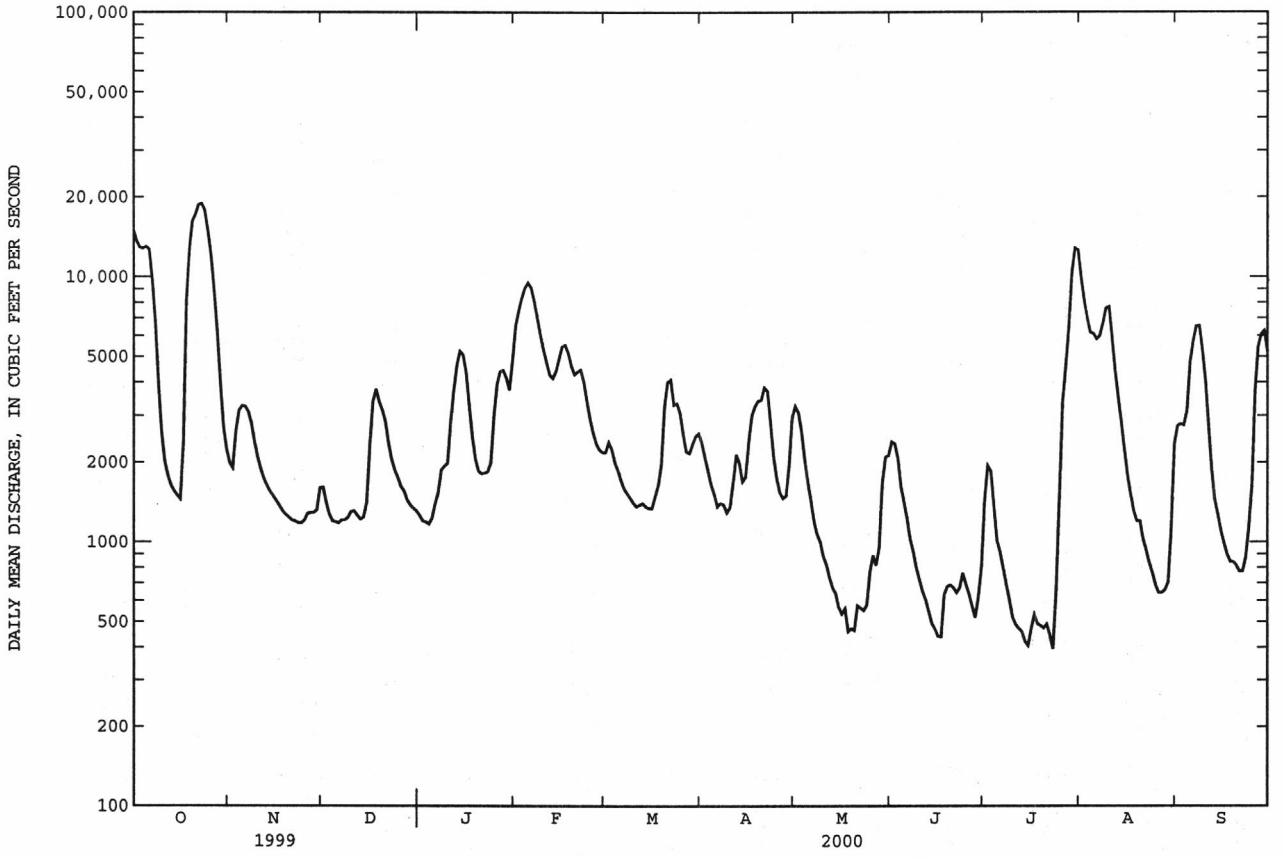
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14900	1990	1610	1260	6540	2180	2360	3250	2390	1420	9880	2740
2	13600	1900	1400	1200	7480	2380	2080	3080	2350	1940	8080	2790
3	12900	2620	1270	1190	8350	2240	1840	2620	2060	1850	6950	2760
4	12800	3130	1200	1170	9070	1990	1640	2060	1620	1370	6160	3120
5	13000	3260	1190	1230	9500	1860	1510	1690	1410	1010	6100	4760
6	12700	3250	1180	1390	9070	1700	1360	1440	1220	914	5820	5710
7	9760	3100	1210	1540	8060	1590	1400	1200	1020	796	5980	6510
8	6680	2800	1210	1870	6960	1520	1380	1070	915	690	6650	6530
9	3950	2390	1240	1930	6010	1460	1290	1000	793	605	7610	5260
10	2610	2090	1300	1980	5280	1400	1350	885	717	519	7710	4030
11	2010	1880	1310	2840	4750	1360	1670	821	650	488	5860	2690
12	1780	1730	1260	3730	4260	1380	2140	734	604	471	4370	1860
13	1640	1630	1220	4630	4140	1400	1990	672	544	459	e3450	1440
14	1560	1550	1240	5240	4410	1360	1690	639	491	421	e2800	1270
15	1500	1490	1410	5080	4920	1340	1760	566	469	406	e2200	1100
16	1450	1430	2340	4360	5450	1340	2400	535	440	469	1770	985
17	2370	1370	3380	3270	5520	1480	3000	560	438	531	1510	897
18	8100	1310	3770	2480	5140	1630	3250	459	632	491	1310	843
19	12600	1270	3380	2050	4600	1960	3400	471	678	483	1200	841
20	16200	1240	3140	1850	4280	3240	3430	463	687	473	1200	815
21	17200	1210	2840	1810	4380	4000	3820	575	671	489	1020	773
22	18700	1200	2360	1820	4460	4090	3700	563	644	445	925	775
23	18900	1180	2050	1840	4010	3290	2780	551	671	394	831	872
24	17800	1180	1870	1990	3400	3330	2080	578	762	659	763	1130
25	14900	1210	1750	2990	2900	3060	1730	771	692	1440	687	1630
26	12100	1280	1620	3930	2580	2540	1540	888	636	3360	642	3700
27	8920	1290	1560	4390	2350	2190	1460	817	573	4520	643	5430
28	6190	1290	1440	4440	2230	2160	1490	953	518	6360	659	6070
29	3990	1320	1380	4160	2180	2340	1930	1680	617	10400	704	6250
30	2720	1600	1340	3740	---	2510	2950	2090	805	12800	1140	5210
31	2250	---	1310	4840	---	2570	---	2120	---	12600	2350	---
TOTAL	275780	54190	54780	86240	152280	66890	64420	35801	26717	69273	106974	88791
MEAN	8896	1806	1767	2782	5251	2158	2147	1155	891	2235	3451	2960
MAX	18900	3260	3770	5240	9500	4090	3820	3250	2390	12800	9880	6530
MIN	1450	1180	1180	1170	2180	1340	1290	459	438	394	642	773
CFSM	4.08	.83	.81	1.27	2.41	.99	.98	.53	.41	1.02	1.58	1.36
IN.	4.70	.92	.93	1.47	2.59	1.14	1.10	.61	.46	1.18	1.82	1.51
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2000@, BY WATER YEAR (WY)												
MEAN	1145	1265	2004	3354	4325	4437	3190	1848	1321	1305	1424	1587
MAX	8896	5049	6195	10020	12920	11050	8553	8411	4873	6291	8260	26760
(WY)	2000	1948	1949	1936	1899	1989	1987	1958	1979	1975	1940	1999
MIN	56.7	115	191	253	497	1116	688	451	243	192	180	63.8
(WY)	1934	1934	1934	1934	1934	1981	1995	1995	1986	1986	1993	1968

02083500 TAR RIVER AT TARBORO, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1896 - 2000@	
ANNUAL TOTAL	1560772		1082136			
ANNUAL MEAN	4276		2957		2267	
HIGHEST ANNUAL MEAN					4057	1960
LOWEST ANNUAL MEAN					594	1981
HIGHEST DAILY MEAN	70500	Sep 19	18900	Oct 23	70500	Sep 19 1999
LOWEST DAILY MEAN	121	Aug 8	394	Jul 23	36	Oct 17 1933
ANNUAL SEVEN-DAY MINIMUM	138	Aug 6	462	Jul 10	40	Sep 26 1932
INSTANTANEOUS PEAK FLOW			19200	Oct 22	70600	Sep 19 1999
INSTANTANEOUS PEAK STAGE			24.47	Oct 22	41.51*	Sep 19 1999
INSTANTANEOUS LOW FLOW			375*	Jul 23	36*	Oct 17 1933
ANNUAL RUNOFF (CFSM)	1.96		1.35		1.04	
ANNUAL RUNOFF (INCHES)	26.60		18.44		14.11	
10 PERCENT EXCEEDS	10800		6520		5640	
50 PERCENT EXCEEDS	1390		1800		1220	
90 PERCENT EXCEEDS	219		638		283	

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



02083800 CONETOE CREEK NEAR BETHEL, NC

LOCATION.--Lat 35°46'33", long 77°27'45", Pitt County, Hydrologic Unit 03020103, on right bank 5 ft downstream of bridge on Secondary Road 1409, 5.5 mi downstream of Crisp Creek, and 5.5 mi west of Bethel.

DRAINAGE AREA.--78.1 mi^2.

PERIOD OF RECORD.--December 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map. Telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record also occurred Aug. 29 and Sept. 3, 1980. Maximum gage height for period of record, from flood mark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1955 reached a stage of 16.7 ft, from information by local resident; discharge not determined.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	416	42	31	26	632	70	58	99	44	18	11	196
2	208	47	30	25	348	69	56	75	38	15	13	221
3	135	76	29	25	220	67	55	60	33	13	11	113
4	105	56	30	26	182	65	54	51	31	11	31	e650
5	86	49	28	33	155	64	55	46	29	12	227	e560
6	70	46	29	34	133	62	65	41	31	39	58	e350
7	58	44	33	33	119	61	67	36	26	18	39	168
8	51	41	32	33	107	60	64	32	23	15	33	103
9	48	40	32	34	100	60	70	28	20	12	29	72
10	45	39	32	67	98	60	69	24	16	11	108	55
11	44	38	31	125	93	55	65	17	13	9.0	48	47
12	42	37	29	67	97	60	62	13	13	8.1	43	43
13	40	36	29	50	157	62	59	15	11	6.1	43	40
14	40	35	31	43	170	58	61	13	10	4.6	44	82
15	38	35	35	39	189	56	76	10	8.7	4.2	34	56
16	37	34	32	37	145	57	128	6.2	7.9	18	30	44
17	150	33	33	36	122	92	111	3.5	4.0	17	29	38
18	828	32	31	34	114	85	98	8.0	2.3	14	28	34
19	917	32	30	33	137	74	91	12	4.2	4.8	32	49
20	879	32	31	34	122	70	85	11	11	8.4	28	48
21	589	32	32	37	105	82	80	28	11	9.1	26	42
22	370	32	33	35	96	88	75	30	14	8.4	25	42
23	212	31	33	35	91	81	69	23	64	6.2	24	74
24	133	31	32	51	87	75	66	22	21	2.1	24	92
25	98	30	31	347	84	70	67	19	17	8.8	24	55
26	78	33	30	e350	81	67	91	15	15	17	23	e420
27	64	38	30	184	78	64	87	7.8	13	13	22	318
28	55	35	29	114	76	69	92	102	11	9.3	26	134
29	50	33	28	82	73	68	165	181	29	7.3	38	76
30	47	31	27	121	---	63	137	77	28	6.9	98	53
31	44	---	27	596	---	61	---	53	---	8.7	480	---
TOTAL	5977	1150	950	2786	4211	2095	2378	1158.5	599.1	355.0	1729	4275
MEAN	193	38.3	30.6	89.9	145	67.6	79.3	37.4	20.0	11.5	55.8	142
MAX	917	76	35	596	632	92	165	181	64	39	480	650
MIN	37	30	27	25	73	55	54	3.5	2.3	2.1	11	34
CFSM	2.47	.49	.39	1.15	1.86	.87	1.01	.48	.26	.15	.71	1.82
IN.	2.85	.55	.45	1.33	2.01	1.00	1.13	.55	.29	.17	.82	2.04

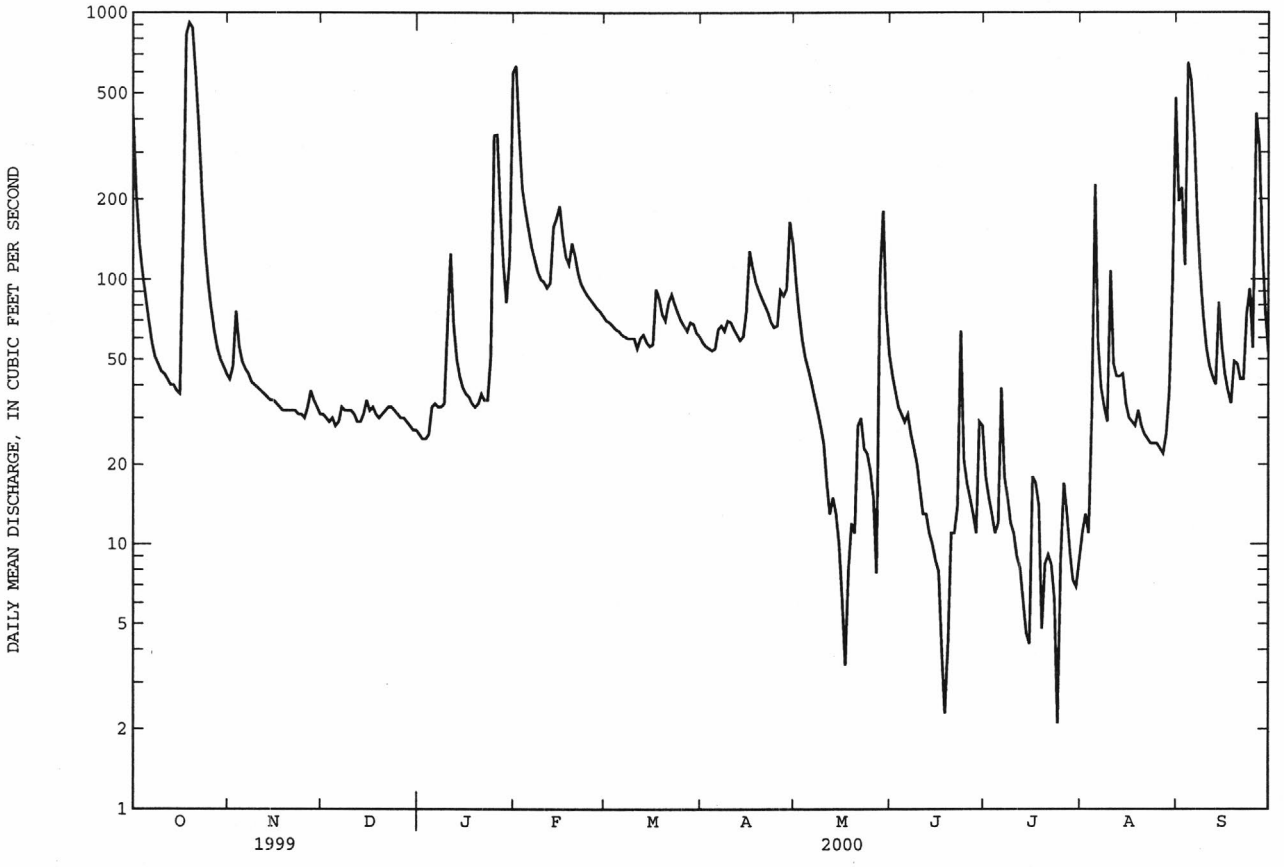
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

MEAN	53.3	35.7	59.9	121	153	152	92.1	58.4	40.9	36.2	64.8	87.8
MAX	462	181	218	296	327	282	282	251	274	210	452	2118
(WY)	1972	1978	1958	1978	1960	1983	1959	1978	1979	1962	1967	1999
MIN	2.82	3.14	3.77	9.96	22.5	17.5	13.2	9.91	3.80	3.16	1.32	2.67
(WY)	1979	1987	1969	1981	1981	1981	1981	1981	1994	1993	1993	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1957 - 2000	
ANNUAL TOTAL	89301.4		27663.6			
ANNUAL MEAN	245		75.6		80.7	
HIGHEST ANNUAL MEAN					230	1999
LOWEST ANNUAL MEAN					12.0	1981
HIGHEST DAILY MEAN	15000	Sep 18	917	Oct 19	15000	Sep 18 1999
LOWEST DAILY MEAN	1.1	Aug 24	2.1	Jul 24	.74	Aug 25 1993
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 23	6.8	Jul 19	.79	Aug 21 1993
INSTANTANEOUS PEAK FLOW			935	Oct 19	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			12.86	Oct 19	19.79	Sep 18 1999
INSTANTANEOUS LOW FLOW			.94	Jul 24	.40*	Aug 28 1980
ANNUAL RUNOFF (CFSM)	3.13		.97		1.03	
ANNUAL RUNOFF (INCHES)	42.54		13.18		14.04	
10 PERCENT EXCEEDS	256		136		180	
50 PERCENT EXCEEDS	40		42		33	
90 PERCENT EXCEEDS	4.2		12		5.1	

e Estimated.
* See REMARKS.

02083800 CONETOE CREEK NEAR BETHEL, NC--Continued



02084000 TAR RIVER AT GREENVILLE, NC.

LOCATION.--Lat 35°37'00", long 77°22''30", Pitt County, Hydrologic Unit 03020103, on right bank 200 ft downstream of State Highway 11, 800 ft downstream from railroad bridge, and 21 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,620 mi^2.

PERIOD OF RECORD.--May 1997 to current year. Gage height records collected at site 800 ft upstream from 1905 to 1935 and at site 200 ft upstream from 1935 to 1984, are in reports of the National Weather Service. Unpublished records of gage height for the period October 1984 to September 1990 are available in files of USGS District Office, Raleigh, NC.

REVISED RECORDS.--WDR NC-99-1(m).

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 2.36 ft below sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge 25,500 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 21, 1999; maximum peak discharge, 18,600 ft^3/s, Oct. 23, gage height, 17.04 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 22, 1940 reached a stage of 22.07 ft at site 200 ft upstream at present datum; discharge 36,500 ft^3/s. Maximum observed stage during period 1905-39 (National Weather Service Records) 24.5 ft July 28, 1919.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24300	2840	1930	1440	6610	2570	2920	3580	2490	988	11600	3690
2	21200	2720	1750	1380	7920	2640	2620	3570	2550	1690	11300	3740
3	18500	2750	1500	1340	9030	2680	2290	3310	2360	1980	10200	3610
4	16400	3420	1370	1330	9770	2490	2010	2740	2060	1690	9030	3980
5	15100	3770	1330	1370	10300	2270	1800	2180	1660	1270	7980	5240
6	14300	3760	1330	1520	10500	2140	1630	1800	1480	1070	7450	6160
7	13800	3670	1370	1640	10300	1980	1530	1520	1210	952	6950	6880
8	12600	3470	1380	1880	9530	1860	1560	1270	1090	808	6810	7360
9	10400	3100	1390	2130	8460	1770	1510	1170	926	736	7130	7230
10	7130	2680	1460	2230	7260	1720	1460	1050	833	590	7820	6370
11	3950	2400	1480	2840	6290	1650	1570	924	737	532	8130	4930
12	2830	2280	1470	3770	5640	1700	1990	873	671	530	7250	3080
13	2490	2110	1420	4520	5370	1730	2270	762	614	498	5690	2060
14	2190	1960	1420	5090	5370	1740	2080	678	530	459	4230	1670
15	2270	1870	1480	5430	5620	1710	1980	659	484	427	3030	1510
16	2110	1730	1830	5360	6000	1690	2610	544	459	459	e2400	1270
17	2510	1780	2820	4640	6340	1880	3330	595	430	512	e1940	1130
18	7460	1720	3690	e3600	6390	2100	3680	532	474	e520	1710	1000
19	12500	1640	3750	e2500	6060	2240	3860	477	660	e540	1520	1150
20	15700	1540	3430	2230	5610	2930	3920	448	655	560	1430	1070
21	17500	1550	3200	2070	5310	3940	4000	449	703	500	1310	978
22	18200	1410	2830	2070	5260	4660	4170	636	734	542	1110	931
23	18500	1480	2450	2120	5150	4450	3650	537	983	435	1010	1120
24	18400	1450	2190	2320	4610	3980	2810	600	932	517	855	1550
25	17800	1470	2010	e3500	3850	3800	2260	613	845	948	788	e1900
26	16600	1530	1890	4860	3330	3310	2000	841	735	2210	733	3200
27	14800	1720	1740	5490	3000	2800	1870	910	679	3870	677	5060
28	12400	1700	1680	5700	2770	2530	1840	936	563	4870	687	6040
29	9770	1700	1570	e5690	2660	2640	2180	1480	575	5770	744	e6900
30	6770	1750	1520	5470	---	2860	2930	2230	714	7790	923	e7100
31	3960	---	1490	5620	---	3000	---	2350	---	10400	2490	---
TOTAL	362440	66970	60170	101150	184310	79460	74330	40264	29836	54663	134927	107909
MEAN	11690	2232	1941	3263	6356	2563	2478	1299	995	1763	4352	3597
MAX	24300	3770	3750	5700	10500	4660	4170	3580	2550	10400	11600	7360
MIN	2110	1410	1330	1330	2660	1650	1460	448	430	427	677	931
CFSM	4.46	.85	.74	1.25	2.43	.98	.95	.50	.38	.67	1.66	1.37
IN.	5.15	.95	.85	1.44	2.62	1.13	1.06	.57	.42	.78	1.92	1.53

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

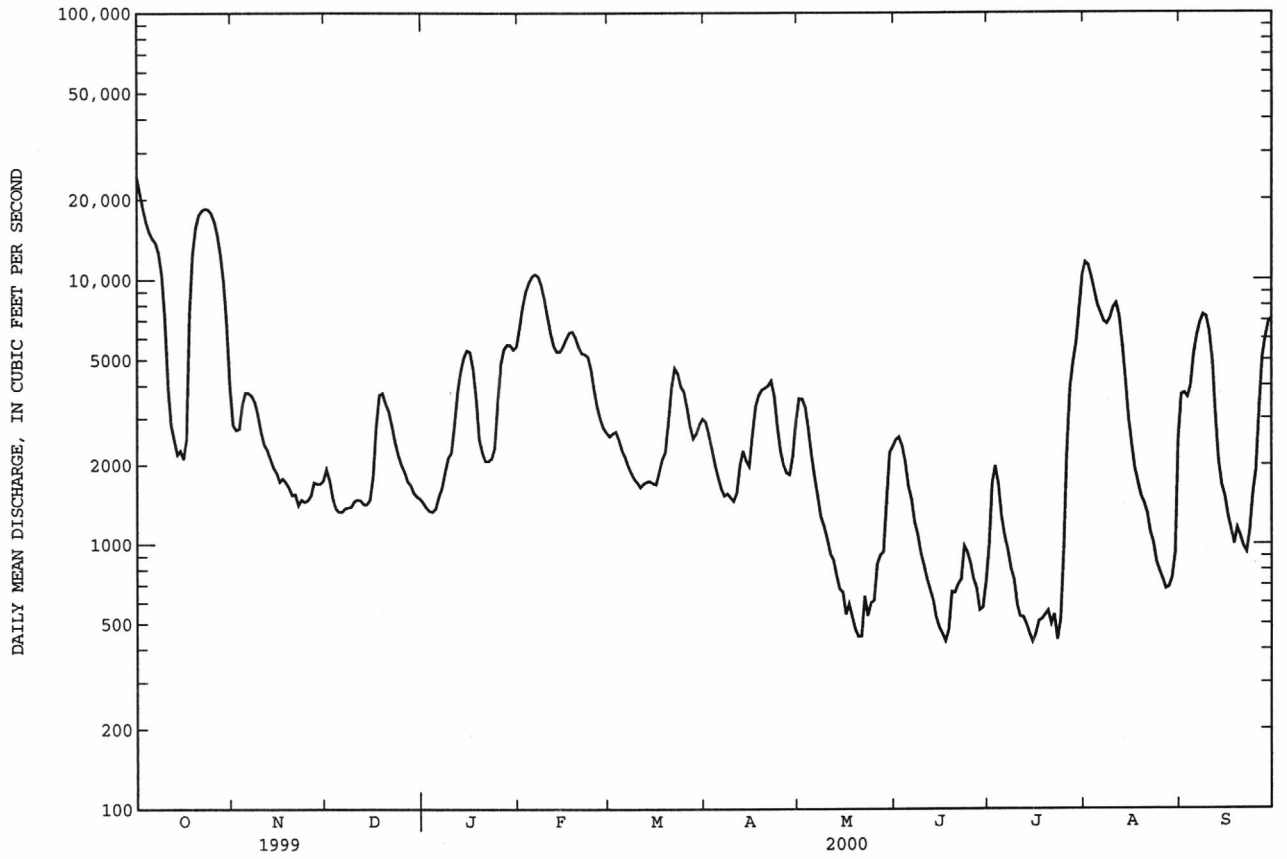
MEAN	4129	1105	1429	5085	7473	5729	2463	1782	862	827	1431	8633
MAX	11690	2232	1941	6167	13280	12020	3269	3377	1451	1763	4352	29850
(WY)	2000	2000	2000	1999	1998	1998	1998	1997	1997	2000	2000	1999
MIN	294	325	911	3263	2818	2563	1643	952	321	279	287	484
(WY)	1999	1999	1999	2000	1999	2000	1999	1999	1999	1999	1999	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	1841606		1296429			
ANNUAL MEAN	5045		3542		3571	
HIGHEST ANNUAL MEAN					3833	1999
LOWEST ANNUAL MEAN					3339	1998
HIGHEST DAILY MEAN	72300	Sep 21	24300	Oct 1	72300	Sep 21 1999
LOWEST DAILY MEAN	30	Aug 22	427	Jul 15	30	Aug 22 1999
ANNUAL SEVEN-DAY MINIMUM	104	Aug 7	486	Jul 12	104	Aug 7 1999
INSTANTANEOUS PEAK FLOW			18600*	Oct 23	73000	Sep 21 1999
INSTANTANEOUS PEAK STAGE			17.04*	Oct 23	29.72	Sep 21 1999
INSTANTANEOUS LOW FLOW			-334	Jul 23	-851	Aug 22 1999
10 PERCENT EXCEEDS	13100		7800		7520	
50 PERCENT EXCEEDS	1730		2140		1310	
90 PERCENT EXCEEDS	203		668		295	

e Estimated.
* See REMARKS.

Note.--Negative values indicate reverse flow.

02084000 TAR RIVER AT GREENVILLE, NC.--Continued



02084160 CHICOD CREEK AT SECONDARY ROAD 1760 NEAR SIMPSON, NC

LOCATION.--Lat 35°33'47", long 77°13'43", Pitt County, Hydrologic Unit 03020103, on left bank at downstream side of bridge on Secondary Road 1760, 0.6 mi upstream from Juniper Branch, and 2.8 mi east-southeast of Simpson.

DRAINAGE AREA.--45 mi^2.

PERIOD OF RECORD.--October 1975 to March 1987. May 1992 to current year.

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

REMARKS.--Records poor. No flow occurs at times during most years. Maximum gage height for period of record from flood mark. Maximum discharge for current water year from rating curve extended above 3,200 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	e620	4.3	14	4.1	336	1.1	8.4	243	2.9	1.7	13	413
2	e280	36	11	3.8	180	.87	6.2	134	1.9	1.1	5.7	144
3	76	230	9.1	4.6	113	.89	5.1	81	.61	.80	4.4	55
4	23	105	8.0	5.2	77	.75	4.2	42	.54	.44	19	49
5	11	44	7.1	8.7	51	.87	3.7	24	1.7	.36	32	594
6	7.4	24	7.5	9.2	34	1.0	3.5	13	3.1	5.4	8.1	570
7	4.9	15	11	11	23	1.1	2.8	7.7	3.2	4.4	5.2	206
8	4.6	11	10	11	17	1.1	2.4	3.9	2.7	2.4	4.5	67
9	4.9	9.0	8.9	13	13	1.1	3.8	1.6	2.1	1.6	3.5	e40
10	5.4	8.2	8.3	46	11	1.3	4.5	.88	1.5	1.2	4.0	e25
11	9.8	8.1	7.8	142	8.4	1.6	4.8	.70	.82	1.0	4.0	e17
12	10	8.4	6.4	80	15	2.9	4.2	.66	.82	1.5	10	e11
13	9.6	8.2	5.9	44	147	2.9	3.6	.57	.57	1.6	5.7	e7.4
14	11	8.3	6.5	27	198	2.8	3.5	.58	.29	1.2	11	e6.5
15	11	8.4	7.1	18	283	2.8	80	.48	.24	.96	6.9	e5.6
16	11	8.0	6.9	14	185	4.1	470	.46	.57	1.0	3.8	e5.3
17	362	7.8	8.0	11	105	793	265	.50	.67	1.3	7.8	e4.9
18	3240	7.7	7.5	11	62	655	232	.48	.55	1.2	12	e4.5
19	e1750	7.9	11	11	42	246	212	.43	.53	.97	65	74
20	e975	8.0	19	14	29	142	130	.49	.61	.81	11	59
21	e483	7.9	20	19	17	129	78	1.1	.56	.79	2.3	18
22	276	8.7	20	20	11	161	239	1.5	.47	.93	1.2	6.9
23	147	8.9	19	31	7.9	112	190	1.8	5.6	.91	.91	44
24	69	9.2	17	153	7.0	78	89	2.0	3.9	1.2	.79	399
25	31	9.7	13	662	5.5	48	50	1.9	2.2	3.1	.79	161
26	16	12	11	537	3.2	30	46	1.8	1.6	108	.62	194
27	10	19	9.5	266	2.0	20	72	1.5	1.3	112	.60	197
28	7.2	20	8.8	155	1.8	22	120	1.9	1.0	23	44	76
29	5.7	18	11	108	1.4	19	706	3.5	1.8	7.4	24	27
30	5.1	16	8.7	114	---	14	438	3.6	2.7	26	51	11
31	4.7	---	5.5	635	---	12	---	3.6	---	13	695	---
TOTAL	8481.3	696.7	324.5	3188.6	1986.2	2508.18	3477.7	580.63	47.05	327.27	1057.81	3492.1
MEAN	274	23.2	10.5	103	68.5	80.9	116	18.7	1.57	10.6	34.1	116
MAX	3240	230	20	662	336	793	706	243	5.6	112	695	594
MIN	4.6	4.3	5.5	3.8	1.4	.75	2.4	.43	.24	.36	.60	4.5
CFSM	6.08	.52	.23	2.29	1.52	1.80	2.58	.42	.03	.23	.76	2.59
IN.	7.01	.58	.27	2.64	1.64	2.07	2.87	.48	.04	.27	.87	2.89

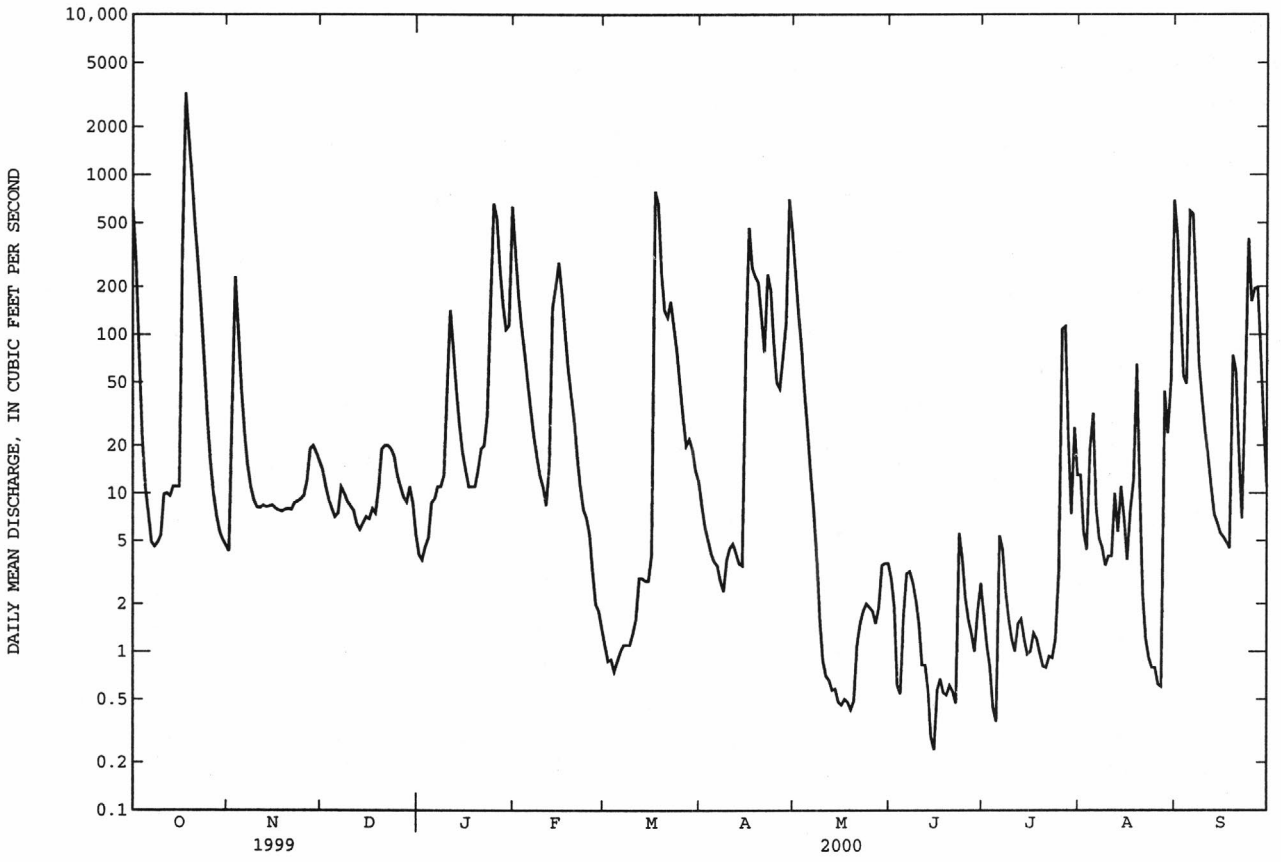
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000, BY WATER YEAR (WY)

MEAN	34.8	33.6	50.2	104	91.0	97.9	55.3	30.9	33.0	19.4	39.6	104
MAX	274	219	94.2	244	245	201	144	139	192	120	238	1188
(WY)	2000	1978	1978	1978	1998	1980	1978	1978	1995	1996	1992	1999
MIN	.27	1.23	4.57	15.2	19.7	18.0	4.49	.65	.001	.89	.000	.22
(WY)	1977	1982	1982	1986	1977	1981	1981	1985	1985	1998	1976	1995

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000	
ANNUAL TOTAL	53192.21		26168.04			
ANNUAL MEAN	146		71.5		57.6	
HIGHEST ANNUAL MEAN					129	1999
LOWEST ANNUAL MEAN					22.1	1986
HIGHEST DAILY MEAN	4560	Sep 18	3240	Oct 18	4560	Sep 18 1999
LOWEST DAILY MEAN	.72	Apr 27	.24	Jun 15	.00	Jul 19 1976
ANNUAL SEVEN-DAY MINIMUM	1.0	Jun 8	.49	May 14	.00	Jul 19 1976
INSTANTANEOUS PEAK FLOW			3690*	Oct 18	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE			14.30	Oct 18	21.46*	Sep 18 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00	Jul 19 1976
ANNUAL RUNOFF (CFSM)	3.24		1.59		1.28	
ANNUAL RUNOFF (INCHES)	43.97		21.63		17.39	
10 PERCENT EXCEEDS	198		186		127	
50 PERCENT EXCEEDS	11		8.4		12	
90 PERCENT EXCEEDS	2.0		.88		.48	

e Estimated.
* See REMARKS.

02084160 CHICOD CREEK AT SECONDARY ROAD 1760 NEAR SIMPSON, NC--Continued



02084472 PAMLICO RIVER AT WASHINGTON, NC

LOCATION.--Lat 35°32'33", long 77°03'43", Beaufort County, Hydrologic Unit 03020104, at bridge on US Highway 17 at Washington, and 0.7 mi downstream of Kennedy Creek.

DRAINAGE AREA.--3,200 mi^2, approximately, revised. (Area at site used prior to Oct. 1, 1999, 3,080 mi^2, revised.)

PERIOD OF RECORD.--October 1999 to September 2000. Daily mean elevations published March 1988 to May 1993.

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

REMARKS.--Records good except those for period Oct. 9-20 and those for estimated daily discharges, which are poor. This site is strongly affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. The published 24.0 hour mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 83,000 ft^3/s, Sept. 21, 1999, maximum gage height, 8.14 ft, Sept. 16, 1999; minimum discharge, -90,800 ft^3/s, Sept. 4, 1999.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e30000	3520	882	1760	8280	3120	4190	6080	3370	1320	9880	6030
2	e26000	4080	1570	1940	8180	2150	3400	4120	2970	1820	10000	5480
3	e23000	3950	2170	1710	9060	2610	2800	e4400	1480	2870	11000	5070
4	e20000	3350	1910	2580	9330	3170	2800	e4000	4020	3250	9760	e4800
5	e18500	4950	2000	261	9700	2750	1420	3170	1880	1600	8270	6170
6	e17500	4650	2320	2230	9440	2940	3100	2530	2110	1070	7430	7390
7	e17000	3830	607	1710	10300	2900	1130	2090	858	1150	7670	e8200
8	e15000	3960	1860	2280	9420	1980	2460	1650	e1800	895	7330	9750
9	12000	4090	1850	2660	8910	e2200	1260	1650	1730	e2300	7490	8470
10	9720	3290	2350	3570	7650	1340	2030	1420	1500	847	8030	7640
11	5780	2640	1020	3650	6880	1640	2000	626	1250	-117	8000	6590
12	3620	2170	1910	3920	5870	2350	1420	1560	1020	e500	7690	e5000
13	3900	2180	e1800	5600	5540	896	2320	840	952	1310	7070	e3400
14	3770	2790	1710	4570	6620	1480	2690	202	1360	720	5440	2140
15	3350	1340	1620	5980	5580	2490	3260	1010	-181	570	4670	e1800
16	2870	1670	1680	6490	7380	2220	3240	e2400	425	983	3730	1220
17	5080	1150	3190	4840	6130	3790	4030	1380	654	555	2270	e800
18	14300	2090	3530	4280	6960	3340	4780	768	846	845	3620	-939
19	15800	2050	3750	2640	6910	3380	2980	447	675	768	1830	4410
20	20000	2100	4610	5020	5460	3710	4060	292	270	e660	e1600	2270
21	18700	2090	2840	621	5450	5340	5620	316	1140	555	e1400	e1750
22	18700	1870	3710	2120	5670	4570	4180	1290	1700	858	1470	1250
23	19000	1750	3260	2920	5440	4070	4430	808	1330	912	1990	3380
24	17500	1840	2560	2720	4800	5060	2190	1220	1730	1060	1280	3170
25	16900	2000	2090	4960	4280	5080	4600	-264	1420	637	689	3590
26	16700	1820	2500	5850	3770	4120	764	1570	1210	3710	706	4830
27	14900	2120	1920	6780	3690	3760	2890	1340	1840	3600	1750	4870
28	13900	819	2100	6910	2960	3430	3020	851	1110	5320	900	e6000
29	11300	2180	1550	6460	2860	2180	3920	2460	128	5660	1020	6100
30	9200	1890	2290	7080	---	3230	4050	786	610	6890	690	e8500
31	5580	---	1810	7430	---	3290	---	1910	---	8430	5470	---
TOTAL	429570	78229	68969	121542	192520	94586	91034	52922	41207	61548	150145	139131
MEAN	13860	2608	2225	3921	6639	3051	3034	1707	1374	1985	4843	4638
MAX	30000	4950	4610	7430	10300	5340	5620	6080	4020	8430	11000	9750
MIN	2870	819	607	261	2860	896	764	-264	-181	-117	689	-939
CFSM	4.50	.85	.72	1.27	2.16	.99	.99	.55	.45	.64	1.57	1.51
IN.	5.19	.94	.83	1.47	2.33	1.14	1.10	.64	.50	.74	1.81	1.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2000

MEAN	13860	2608	2225	3921	6639	3051	3034	1707	1374	1985	4843	4638
MAX	13860	2608	2225	3921	6639	3051	3034	1707	1374	1985	4843	4638
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	13860	2608	2225	3921	6639	3051	3034	1707	1374	1985	4843	4638
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

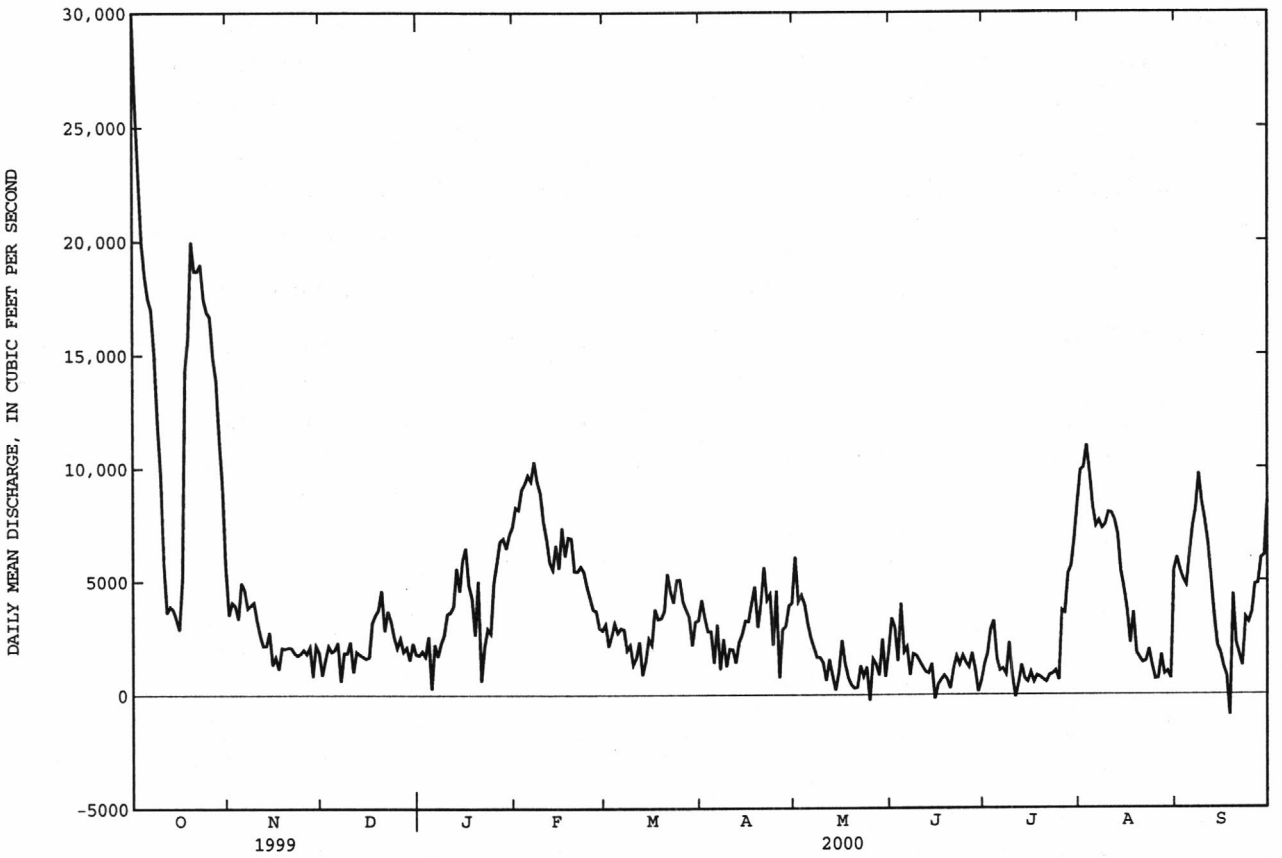
SUMMARY STATISTICS FOR 2000 WATER YEAR

ANNUAL TOTAL	1521403	
ANNUAL MEAN	4157	
HIGHEST DAILY MEAN	30000	Oct 1
LOWEST DAILY MEAN	-939	Sep 18
ANNUAL SEVEN-DAY MINIMUM	547	Jun 15
INSTANTANEOUS PEAK FLOW	22700	Oct 21
INSTANTANEOUS PEAK STAGE	3.60	Aug 30
INSTANTANEOUS LOW FLOW	-15800	Aug 30
10 PERCENT EXCEEDS	8480	
50 PERCENT EXCEEDS	2870	
90 PERCENT EXCEEDS	844	

e Estimated.

Note.--Negative valuse indicate reverse flow.

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued



02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to 1967, 1999 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): April 1999 to current year.

pH (TOP AND BOTTOM): April 1999 to current year.

WATER TEMPERATURE (TOP AND BOTTOM): April 1999 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): April 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): April 1999 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from April 1999 to current year.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%. Daily records of salinity and water temperature for October 1961 to September 1967 are available in the files of the USGS District Office, Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	11.3, September 5, 1999	<0.1, on many days during the period
SALINITY (BOTTOM), ppt	11.4, September 5, 1999	<0.1, on many days during the period
pH (TOP), standard units	9.1, July 19, 20, 1999	5.8, October 19, 20, 1999
pH (BOTTOM), standard units	8.8, July 2, 3, 4, 1999	5.3, September 11, 12, 13, 1999
WATER TEMPERATURE (TOP), °C	34.1, July 31, 1999	0.6, January 29, 2000
WATER TEMPERATURE (BOTTOM), °C	32.6, July 31, 1999	0.6, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	13.8, May 30, 1999	1.7, August 25, 2000
DISSOLVED OXYGEN (BOTTOM), mg/L	12.2, January 30, 2000	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	5.2, August 25	<0.1, on many days during the year
SALINITY (BOTTOM), ppt	10.7, August 16	<0.1, on many days during the year
pH (TOP), standard units	9.0, June 13	5.8, October 19, 20
pH (BOTTOM), standard units	8.7, July 18	5.7, October 1, 2
WATER TEMPERATURE (TOP), °C	30.8, June 19, July 18	0.6, January 29
WATER TEMPERATURE (BOTTOM), °C	30.8, July 18	0.6, January 29
DISSOLVED OXYGEN (TOP), mg/L	13.0, January 30	1.7, August 25
DISSOLVED OXYGEN (BOTTOM), mg/L	12.2, January 30	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	153, July 18	21, October 1
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	109, July 16	<10, on many days during the year

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	.02	.02	.02	.04	.03	.03	.05	.04	.05	.05	.04	.04
2	.03	.02	.02	.04	.03	.04	.05	.04	.04	.05	.04	.04
3	.03	.02	.03	.04	.04	.04	.04	.04	.04	.05	.04	.04
4	.03	.03	.03	.04	.04	.04	.05	.04	.04	.06	.04	.04
5	.03	.03	.03	.04	.04	.04	.05	.04	.04	.05	.04	.05
6	.03	.03	.03	.04	.03	.04	.05	.04	.05	.05	.04	.05
7	.03	.03	.03	.04	.03	.04	.05	.05	.05	.05	.04	.04
8	.03	.03	.03	.03	.03	.03	.05	.04	.05	.05	.04	.04
9	.03	.03	.03	.03	.03	.03	.05	.04	.05	.05	.04	.04
10	.03	.03	.03	.04	.03	.03	.05	.04	.05	.05	.04	.04
11	.04	.03	.04	.04	.03	.04	.05	.05	.05	.05	.04	.04
12	.04	.04	.04	.04	.04	.04	.05	.04	.05	.05	.04	.04
13	.04	.04	.04	.04	.04	.04	.05	.04	.05	.04	.04	.04
14	.05	.04	.04	.04	.04	.04	.05	.04	.05	.04	.03	.04
15	.05	.04	.05	.05	.04	.04	.05	.04	.05	.04	.03	.03
16	.05	.04	.05	.05	.04	.04	.05	.04	.04	.04	.03	.03
17	.05	.04	.05	.05	.04	.05	.05	.04	.04	.04	.03	.03
18	.04	.02	.03	.05	.04	.04	.04	.04	.04	.03	.03	.03
19	.02	.01	.01	.05	.04	.05	.04	.03	.03	.04	.03	.03
20	.02	.01	.02	.05	.05	.05	.04	.03	.03	---	---	---
21	.02	.01	.02	.05	.04	.04	.04	.03	.03	---	---	---
22	.02	.02	.02	.05	.04	.05	.04	.03	.03	.04	.04	.04
23	.02	.02	.02	.05	.04	.05	.04	.03	.03	.04	.04	.04
24	.02	.02	.02	.05	.04	.05	.04	.03	.03	.05	.04	.04
25	.02	.02	.02	.05	.04	.05	.04	.03	.04	.05	.04	.04
26	.02	.02	.02	.05	.04	.05	.04	.03	.04	.04	.03	.04
27	.02	.02	.02	.05	.04	.05	.04	.04	.04	.04	.03	.03
28	.02	.02	.02	.05	.05	.05	.04	.04	.04	.03	.03	.03
29	.02	.02	.02	.05	.05	.05	.05	.04	.04	.03	.03	.03
30	.03	.02	.03	.05	.05	.05	.05	.04	.04	.03	.03	.03
31	.03	.03	.03	---	---	---	.06	.04	.04	.04	.03	.04
MONTH	.05	.01	.03	.05	.03	.04	.06	.03	.04	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.03	.03	.03	.04	.04	.04	.04	.04	.04	.04	.04	.04
2	.03	.03	.03	.04	.04	.04	.04	.04	.04	.04	.04	.04
3	.03	.03	.03	.04	.04	.04	.04	.04	.04	.04	.04	.04
4	.03	.03	.03	.22	.04	.06	.04	.04	.04	.04	.04	.04
5	.03	.03	.03	.04	.04	.04	.05	.04	.04	.04	.04	.04
6	.03	.03	.03	.14	.04	.06	.05	.04	.04	.04	.04	.04
7	.03	.03	.03	.40	.04	.13	.04	.04	.04	.04	.04	.04
8	.03	.03	.03	.20	.04	.06	.04	.04	.04	.04	.04	.04
9	.03	.03	.03	.25	.04	.06	---	---	---	.05	.04	.04
10	.03	.03	.03	.06	.04	.05	.05	.05	.05	.05	.04	.04
11	.03	.03	.03	.05	.04	.05	.05	.04	.05	.05	.04	.05
12	.03	.03	.03	.05	.04	.05	.05	.04	.04	.05	.05	.05
13	.03	.03	.03	.05	.05	.05	.05	.04	.04	.05	.05	.05
14	.04	.03	.03	.16	.05	.06	.04	.04	.04	.05	.05	.05
15	.05	.03	.04	.05	.04	.05	.05	.04	.04	.16	.05	.07
16	.03	.03	.03	.05	.05	.05	.05	.04	.04	.08	.05	.06
17	.03	.03	.03	.06	.04	.05	.05	.04	.04	.06	.05	.05
18	.03	.03	.03	.05	.04	.04	.04	.04	.04	.06	.05	.05
19	.04	.03	.03	.04	.04	.04	.04	.04	.04	.06	.05	.05
20	.04	.03	.03	.04	.04	.04	.04	.03	.04	.06	.06	.06
21	.04	.03	.03	.04	.04	.04	.04	.03	.04	.07	.05	.06
22	.04	.03	.03	.04	.04	.04	.04	.04	.04	.06	.05	.06
23	.04	.03	.03	.04	.03	.04	.04	.03	.03	.06	.06	.06
24	.04	.03	.03	.04	.03	.03	.04	.03	.03	.06	.05	.05
25	.04	.03	.04	.04	.03	.04	.04	.03	.04	.09	.05	.06
26	.04	.03	.04	.04	.03	.04	.04	.04	.04	.10	.05	.07
27	.04	.04	.04	.04	.03	.04	.04	.04	.04	.06	.06	.06
28	.04	.04	.04	.04	.04	.04	.04	.04	.04	.06	.05	.06
29	.04	.04	.04	.04	.04	.04	.05	.04	.04	.06	.05	.06
30	---	---	---	---	---	---	.05	.04	.04	.11	.05	.06
31	---	---	---	.04	.04	.04	---	---	---	.14	.05	.05
MONTH	.05	.03	.03	---	---	---	---	---	---	.16	.04	.05

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	.05	.04	.05	1.4	.12	.51	.02	.02	.02	---	---	---
2	.05	.04	.04	1.0	.06	.32	---	---	---	---	---	---
3	.10	.04	.05	---	---	---	---	---	---	---	---	---
4	.05	.04	.04	---	---	---	.03	.02	.03	---	---	---
5	.05	.04	.04	---	---	---	.03	.03	.03	---	---	---
6	.05	.04	.04	.23	.03	.09	.03	.03	.03	---	---	---
7	.05	.04	.04	1.4	.04	.32	.04	.03	.03	.04	.03	.03
8	.05	.04	.04	1.5	.05	.36	.03	.02	.03	.03	.03	.03
9	.05	.04	.05	1.3	.05	.28	.03	.02	.03	.03	.03	.03
10	.05	.05	.05	.34	.04	.10	.03	.02	.03	.03	.03	.03
11	.05	.05	.05	.71	.05	.14	.03	.02	.03	.03	.02	.03
12	.05	.05	.05	---	---	---	.03	.03	.03	.03	.02	.03
13	.22	.05	.07	---	---	---	.03	.03	.03	.03	.02	.03
14	.69	.09	.34	---	---	---	.19	.03	.05	.03	.03	.03
15	1.3	.19	.76	.48	.06	.15	.11	.03	.05	.03	.03	.03
16	.81	.21	.51	.55	.05	.16	.33	.04	.08	.03	.03	.03
17	.71	.07	.32	.68	.05	.21	---	---	---	.03	.03	.03
18	.47	.08	.24	.38	.05	.11	---	---	---	.31	.03	.11
19	.33	.06	.15	---	---	---	1.3	.04	.28	.30	.04	.06
20	1.4	.07	.91	.61	.05	.25	---	---	---	.04	.04	.04
21	1.3	.14	.62	.53	.33	.42	2.6	.17	.76	.04	.04	.04
22	.54	.06	.22	---	---	---	.83	.14	.42	.05	.04	.04
23	.74	.05	.17	---	---	---	---	---	---	.06	.04	.05
24	.69	.05	.21	---	---	---	2.4	.21	.59	.05	.04	.04
25	.18	.04	.07	---	---	---	5.2	.43	1.9	.05	.04	.04
26	.13	.04	.05	---	---	---	4.5	1.1	2.5	.04	.04	.04
27	.08	.04	.05	.06	.05	.06	3.4	.34	1.5	.04	.03	.04
28	.08	.05	.06	.05	.03	.04	2.2	.09	.96	.04	.03	.04
29	.34	.05	.09	.04	.02	.03	1.7	.10	.75	.05	.04	.04
30	.88	.06	.36	.03	.02	.02	4.2	.16	1.6	.05	.05	.05
31	---	---	---	.02	.02	.02	---	---	---	---	---	---
MONTH	1.4	.04	.19	---	---	---	---	---	---	---	---	---

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	.02	.02	.02	.03	.03	.03	.06	.05	.05	.04	.04	.04
2	.02	.02	.02	.04	.03	.03	.05	.05	.05	.05	.04	.04
3	.03	.02	.03	.04	.03	.04	.05	.04	.05	.04	.04	.04
4	.03	.03	.03	.04	.04	.04	.05	.04	.05	.04	.04	.04
5	.03	.03	.03	.04	.03	.04	.05	.05	.05	.05	.04	.05
6	.03	.03	.03	.04	.03	.03	.05	.05	.05	.05	.04	.05
7	.03	.03	.03	.03	.03	.03	.05	.05	.05	.05	.04	.04
8	.03	.03	.03	.03	.03	.03	.05	.05	.05	.05	.04	.04
9	.03	.03	.03	.03	.03	.03	.05	.05	.05	.05	.04	.04
10	.04	.03	.03	.04	.03	.03	.05	.05	.05	.04	.04	.04
11	.04	.04	.04	.04	.03	.04	.05	.05	.05	.05	.04	.04
12	.04	.04	.04	.04	.04	.04	.05	.05	.05	.05	.04	.04
13	.05	.04	.04	.04	.04	.04	.05	.05	.05	.04	.04	.04
14	.05	.04	.05	.04	.04	.04	.05	.05	.05	.05	.03	.04
15	.06	.05	.05	.05	.04	.04	.05	.05	.05	.04	.03	.03
16	.05	.05	.05	.05	.04	.04	.05	.05	.05	.03	.03	.03
17	.05	.04	.05	.05	.05	.05	.05	.04	.05	.04	.03	.03
18	.04	.02	.03	.05	.04	.04	.05	.04	.04	.03	.03	.03
19	.02	.02	.02	.05	.04	.05	.04	.04	.04	.04	.03	.03
20	.02	.02	.02	.05	.05	.05	.04	.03	.04	.04	.03	.04
21	.02	.02	.02	.05	.05	.05	.04	.03	.04	.05	.04	.04
22	.02	.02	.02	.05	.05	.05	.04	.03	.04	.04	.04	.04
23	.02	.02	.02	.05	.05	.05	.04	.03	.04	.04	.04	.04
24	.02	.01	.01	.05	.05	.05	.04	.04	.04	.05	.04	.04
25	.02	.01	.01	.05	.05	.05	.04	.04	.04	.05	.04	.04
26	.02	.01	.02	.05	.05	.05	.04	.04	.04	.04	.03	.04
27	.02	.02	.02	.05	.05	.05	.04	.04	.04	.04	.03	.03
28	.02	.02	.02	.05	.05	.05	.04	.04	.04	.03	.03	.03
29	.02	.02	.02	.05	.05	.05	.04	.04	.04	.03	.03	.03
30	.03	.02	.02	.06	.05	.05	.04	.04	.04	.03	.03	.03
31	.03	.03	.03	---	---	---	.04	.04	.04	.04	.03	.04
MONTH	.06	.01	.03	.06	.03	.04	.06	.03	.05	.05	.03	.04

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	.03	.03	.03	.04	.04	.04	.04	.04	.04	.04	.04	.04
2	.03	.03	.03	.04	.04	.04	.04	.04	.04	.04	.03	.04
3	.03	.03	.03	2.8	.04	.16	.04	.04	.04	.04	.03	.04
4	.03	.03	.03	3.7	.04	1.1	.04	.04	.04	.04	.03	.04
5	.03	.03	.03	4.8	.04	1.4	.05	.04	.04	.04	.04	.04
6	.03	.03	.03	5.4	4.0	4.9	.04	.04	.04	.04	.04	.04
7	.03	.03	.03	5.3	.04	3.5	.04	.04	.04	.04	.04	.04
8	.03	.03	.03	2.4	.04	.42	.04	.04	.04	.04	.04	.04
9	.03	.03	.03	1.0	.04	.21	.05	.04	.04	.05	.04	.04
10	.03	.03	.03	.16	.04	.05	.05	.05	.05	.05	.04	.04
11	.03	.03	.03	.05	.04	.04	.05	.04	.04	.05	.04	.05
12	.03	.03	.03	.05	.04	.04	.05	.04	.04	.05	.05	.05
13	.04	.03	.03	.05	.04	.05	.05	.04	.04	.05	.05	.05
14	.04	.03	.03	.87	.05	.09	.04	.04	.04	.05	.05	.05
15	.04	.03	.04	.05	.04	.05	.05	.04	.04	.19	.05	.08
16	.04	.03	.03	.05	.04	.05	.04	.04	.04	.07	.05	.06
17	.03	.03	.03	.05	.04	.05	.04	.04	.04	.06	.05	.06
18	.03	.03	.03	.05	.04	.04	.04	.04	.04	.06	.05	.06
19	.03	.03	.03	.04	.04	.04	.04	.03	.04	.06	.05	.06
20	.04	.03	.03	.04	.04	.04	.04	.03	.03	.06	.06	.06
21	.04	.03	.03	.04	.04	.04	.03	.03	.03	.08	.06	.06
22	.04	.03	.03	.04	.04	.04	.04	.03	.04	.07	.05	.06
23	.03	.03	.03	.04	.03	.04	.04	.03	.03	.06	.06	.06
24	.04	.03	.03	.04	.03	.03	.04	.03	.03	.06	.06	.06
25	.04	.03	.03	.04	.03	.04	.04	.03	.03	.11	.05	.06
26	.04	.03	.04	.04	.03	.04	.04	.04	.04	.10	.06	.07
27	.04	.04	.04	.04	.03	.04	.04	.04	.04	.06	.06	.06
28	.04	.04	.04	.04	.04	.04	.04	.04	.04	.07	.06	.06
29	.04	.04	.04	.04	.04	.04	.05	.04	.04	.06	.05	.06
30	---	---	---	---	---	---	.05	.04	.04	.17	.05	.07
31	---	---	---	.04	.04	.04	---	---	---	.27	.04	.06
MONTH	.04	.03	.03	---	---	---	.05	.03	.04	.27	.03	.05

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	.05	.04	.04	5.1	1.8	4.1	.02	.02	.02	---	---	---
2	.05	.04	.04	5.5	2.0	4.8	---	---	---	---	---	---
3	.09	.04	.05	5.2	.49	3.5	---	---	---	---	---	---
4	.04	.04	.04	2.8	.04	.72	.03	.02	.03	---	---	---
5	.05	.04	.04	2.4	.04	.57	.03	.03	.03	---	---	---
6	.05	.04	.04	3.4	.04	1.3	.03	.03	.03	---	---	---
7	.05	.04	.04	3.9	.04	2.2	.03	.03	.03	.03	.03	.03
8	.05	.04	.05	---	---	---	.03	.02	.03	.03	.03	.03
9	.05	.04	.05	2.9	.05	.58	.03	.02	.03	.03	.03	.03
10	.05	.05	.05	1.4	.04	.34	.03	.03	.03	.03	.02	.02
11	.05	.05	.05	1.8	.06	.95	.03	.03	.03	.03	.02	.02
12	1.8	.05	.21	---	---	---	.03	.03	.03	.03	.02	.03
13	5.3	1.8	3.9	---	---	---	9.4	.03	.72	.04	.02	.03
14	5.3	2.3	4.8	---	---	---	8.2	.03	2.0	.04	.04	.04
15	5.3	1.1	3.8	1.1	.06	.44	10.1	1.5	8.8	.04	.04	.04
16	3.8	1.2	2.5	1.1	.06	.31	10.7	9.3	10.2	.04	.04	.04
17	3.8	.41	2.3	.84	.05	.29	10.3	9.6	10.0	.05	.04	.04
18	2.4	.49	1.5	2.4	.06	1.1	---	---	---	1.0	.04	.27
19	4.3	.25	2.2	---	---	---	8.6	.05	5.0	.40	.04	.08
20	5.7	1.0	3.3	1.8	.05	.60	9.0	5.0	8.3	.05	.05	.05
21	6.9	1.7	5.8	---	---	---	8.8	6.9	8.5	.05	.05	.05
22	6.0	.38	4.2	---	---	---	9.0	8.3	8.8	.05	.05	.05
23	3.2	.06	1.1	---	---	---	8.7	8.1	8.5	.08	.05	.05
24	4.0	.16	2.3	---	---	---	8.5	7.5	8.1	.05	.04	.05
25	3.4	.29	2.0	---	---	---	8.1	5.1	6.6	.05	.04	.04
26	3.0	.33	1.6	---	---	---	7.2	4.5	6.6	.05	.04	.04
27	1.9	.05	.47	.06	.04	.05	7.2	1.7	5.8	.04	.03	.04
28	.89	.05	.31	.05	.03	.04	4.3	.87	2.3	.03	.03	.03
29	1.8	.05	.35	.03	.02	.03	3.3	.35	2.3	.03	.03	.03
30	4.1	.09	1.8	.03	.02	.02	4.5	.54	2.4	.03	.03	.03
31	---	---	---	.02	.02	.02	---	---	---	---	---	---
MONTH	6.9	.04	1.5	---	---	---	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	6.1	6.1	6.1	6.3	6.2	6.3	6.9	6.8	6.8	6.8	6.6	6.7
2	6.1	6.0	6.1	6.4	6.2	6.3	6.9	6.7	6.8	6.8	6.7	6.7
3	6.1	6.0	6.0	6.5	6.3	6.4	6.8	6.8	6.8	6.8	6.7	6.7
4	6.1	6.1	6.1	6.5	6.4	6.5	6.8	6.7	6.8	6.9	6.7	6.8
5	6.2	6.1	6.1	6.5	6.3	6.5	6.8	6.8	6.8	7.1	6.8	6.9
6	6.2	6.2	6.2	6.5	6.3	6.4	6.8	6.8	6.8	6.9	6.8	6.8
7	6.2	6.2	6.2	6.5	6.4	6.5	7.0	6.7	6.9	6.8	6.8	6.8
8	6.2	6.2	6.2	6.6	6.4	6.5	6.9	6.7	6.8	6.9	6.8	6.8
9	6.3	6.2	6.2	6.6	6.5	6.6	6.8	6.7	6.7	6.9	6.9	6.9
10	6.2	6.1	6.2	6.6	6.5	6.5	6.8	6.7	6.7	7.0	6.8	6.9
11	6.2	6.1	6.1	6.6	6.5	6.5	6.8	6.7	6.8	6.9	6.8	6.9
12	6.2	6.1	6.2	6.6	6.5	6.6	6.8	6.7	6.8	---	---	---
13	6.3	6.2	6.2	6.6	6.5	6.6	6.8	6.7	6.8	---	---	---
14	6.4	6.2	6.3	6.6	6.5	6.6	6.8	6.7	6.7	---	---	---
15	6.4	6.3	6.4	6.7	6.5	6.6	6.8	6.7	6.7	---	---	---
16	6.4	6.4	6.4	6.9	6.7	6.8	6.8	6.7	6.7	---	---	---
17	6.6	6.4	6.5	6.9	6.7	6.8	6.8	6.7	6.7	---	---	---
18	6.5	6.0	6.2	6.7	6.7	6.7	6.8	6.7	6.8	---	---	---
19	6.0	5.8	5.9	6.7	6.7	6.7	6.9	6.7	6.8	---	---	---
20	5.9	5.8	5.9	6.7	6.6	6.7	6.8	6.6	6.7	---	---	---
21	5.9	5.9	5.9	6.7	6.6	6.6	6.6	6.5	6.6	---	---	---
22	6.0	5.9	6.0	6.7	6.7	6.7	6.6	6.5	6.5	---	---	---
23	6.1	6.0	6.0	6.7	6.7	6.7	6.5	6.5	6.5	---	---	---
24	6.1	6.0	6.1	6.8	6.7	6.7	6.5	6.4	6.5	---	---	---
25	6.1	6.1	6.1	6.8	6.7	6.7	6.6	6.4	6.5	---	---	---
26	6.1	6.1	6.1	6.8	6.6	6.7	6.5	6.4	6.5	---	---	---
27	6.1	6.1	6.1	6.8	6.6	6.7	6.5	6.4	6.5	---	---	---
28	6.2	6.1	6.1	6.7	6.6	6.7	6.8	6.5	6.6	---	---	---
29	6.2	6.1	6.1	6.7	6.6	6.7	6.8	6.7	6.7	---	---	---
30	6.2	6.1	6.2	6.9	6.7	6.7	6.7	6.6	6.7	---	---	---
31	6.2	6.2	6.2	---	---	---	6.7	6.6	6.6	---	---	---
MONTH	6.6	5.8	6.1	6.9	6.2	6.6	7.0	6.4	6.7	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	6.7	6.6	6.6	6.6	6.4	6.5	6.8	6.6	6.8
2	---	---	---	6.8	6.6	6.6	6.6	6.5	6.5	7.1	6.5	6.8
3	---	---	---	6.7	6.6	6.7	6.7	6.4	6.6	6.7	6.5	6.6
4	---	---	---	6.8	6.7	6.7	6.7	6.5	6.6	6.7	6.5	6.6
5	---	---	---	6.7	6.7	6.7	6.9	6.6	6.7	6.8	6.5	6.7
6	---	---	---	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.5	6.6
7	---	---	---	6.8	6.7	6.8	6.7	6.6	6.7	6.8	6.5	6.7
8	---	---	---	6.8	6.6	6.7	6.8	6.6	6.7	6.9	6.6	6.7
9	---	---	---	6.9	6.7	6.8	---	---	---	7.1	6.7	6.8
10	---	---	---	6.8	6.7	6.8	7.1	6.8	7.0	7.1	6.9	7.0
11	6.5	6.5	6.5	6.9	6.7	6.8	6.8	6.7	6.8	7.3	6.8	7.0
12	6.6	6.5	6.5	7.0	6.8	6.8	6.8	6.7	6.8	7.2	6.8	7.0
13	6.6	6.5	6.5	7.1	6.9	7.0	6.8	6.7	6.8	7.4	6.9	7.1
14	6.5	6.5	6.5	6.9	6.8	6.8	6.8	6.7	6.8	7.4	6.9	7.1
15	6.5	6.5	6.5	6.8	6.7	6.8	6.8	6.7	6.8	7.6	6.8	7.2
16	6.5	6.5	6.5	6.9	6.7	6.8	6.7	6.5	6.6	7.7	6.9	7.3
17	6.6	6.5	6.5	6.9	6.6	6.8	6.6	6.4	6.5	7.2	6.9	7.0
18	6.6	6.5	6.5	6.7	6.5	6.6	6.6	6.4	6.5	7.5	7.0	7.2
19	6.6	6.4	6.5	6.6	6.5	6.5	6.7	6.5	6.6	8.0	7.0	7.3
20	6.5	6.4	6.5	6.7	6.5	6.6	6.7	6.5	6.6	7.8	7.2	7.4
21	6.5	6.4	6.5	6.7	6.5	6.7	6.6	6.4	6.6	7.4	7.1	7.3
22	6.6	6.5	6.5	6.8	6.7	6.8	6.7	6.4	6.6	7.3	6.9	7.1
23	6.6	6.5	6.6	6.8	6.4	6.6	6.7	6.5	6.7	7.6	7.0	7.2
24	6.6	6.5	6.6	6.4	6.3	6.4	6.7	6.6	6.7	8.1	6.9	7.3
25	6.6	6.5	6.5	6.4	6.2	6.3	6.7	6.5	6.6	7.6	7.0	7.2
26	6.6	6.5	6.5	6.4	6.3	6.4	6.6	6.5	6.6	8.6	7.0	7.5
27	6.6	6.5	6.6	6.5	6.3	6.4	6.6	6.5	6.6	7.3	6.9	7.1
28	6.6	6.5	6.6	6.5	6.4	6.4	6.7	6.5	6.6	7.1	6.7	6.9
29	6.6	6.6	6.6	6.5	6.4	6.4	6.7	6.5	6.6	6.9	6.6	6.7
30	---	---	---	---	---	---	6.8	6.6	6.7	6.8	6.6	6.7
31	---	---	---	6.5	6.4	6.5	---	---	---	6.8	6.5	6.6
MONTH	---	---	---	---	---	---	---	---	---	8.6	6.5	7.0

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	6.6	6.4	6.5	7.6	6.8	7.0	6.2	6.0	6.1	---	---	---
2	6.6	6.4	6.5	8.0	6.9	7.1	---	---	---	---	---	---
3	6.7	6.5	6.6	---	---	---	---	---	---	---	---	---
4	6.6	6.5	6.6	---	---	---	6.1	5.9	6.0	---	---	---
5	6.7	6.5	6.6	---	---	---	6.1	6.0	6.1	---	---	---
6	6.8	6.5	6.7	7.1	6.7	7.0	6.2	6.1	6.1	---	---	---
7	7.0	6.6	6.8	7.0	6.6	6.8	6.2	6.1	6.2	6.4	6.3	6.4
8	7.0	6.7	6.8	7.1	6.6	6.7	6.3	6.2	6.3	6.4	6.3	6.4
9	7.2	6.8	6.9	7.0	6.6	6.7	6.4	6.2	6.4	6.4	6.3	6.4
10	7.4	6.8	7.0	7.4	6.5	6.8	6.5	6.4	6.4	6.4	6.3	6.4
11	8.2	7.0	7.3	7.6	6.8	7.0	6.5	6.4	6.5	6.4	6.3	6.4
12	8.7	7.0	7.5	---	---	---	6.5	6.4	6.5	6.4	6.4	6.4
13	9.0	7.2	7.8	---	---	---	6.5	6.4	6.4	6.4	6.3	6.4
14	8.6	7.2	7.8	---	---	---	6.7	6.4	6.5	6.5	6.4	6.4
15	7.9	7.2	7.4	7.8	7.0	7.2	6.6	6.5	6.5	6.5	6.4	6.5
16	8.0	7.2	7.5	8.4	7.1	7.3	6.6	6.5	6.5	6.7	6.5	6.6
17	7.8	7.2	7.4	8.6	7.1	7.5	---	---	---	6.7	6.6	6.6
18	7.9	7.2	7.4	8.6	7.3	7.7	---	---	---	6.9	6.6	6.7
19	8.0	7.2	7.4	---	---	---	6.6	6.4	6.5	6.8	6.4	6.6
20	7.4	7.0	7.1	8.0	6.9	7.3	---	---	---	6.6	6.5	6.5
21	7.6	7.0	7.2	7.3	7.0	7.1	6.8	6.5	6.6	6.6	6.5	6.6
22	7.4	6.9	7.1	---	---	---	6.7	6.5	6.6	6.7	6.6	6.6
23	7.3	6.8	7.0	---	---	---	---	---	---	6.7	6.6	6.6
24	7.3	6.8	7.0	---	---	---	6.8	6.7	6.7	6.6	6.5	6.6
25	7.7	6.8	7.1	---	---	---	6.9	6.7	6.8	6.6	6.4	6.5
26	7.3	6.8	7.0	---	---	---	7.0	6.7	6.8	6.6	6.4	6.5
27	7.6	6.7	7.1	6.8	6.6	6.7	7.3	6.8	6.9	6.5	6.4	6.5
28	7.4	6.7	7.0	6.8	6.6	6.7	7.0	6.8	6.9	6.5	6.3	6.4
29	6.9	6.6	6.7	6.7	6.3	6.5	7.3	6.8	6.9	6.5	6.4	6.5
30	7.4	6.7	6.9	6.4	6.1	6.2	7.5	6.8	7.1	6.5	6.4	6.5
31	---	---	---	6.2	6.1	6.1	---	---	---	---	---	---
MONTH	9.0	6.4	7.1	---	---	---	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	5.7	5.7	5.7	6.2	6.2	6.2	6.9	6.7	6.8	6.7	6.7	6.7
2	5.8	5.7	5.7	6.3	6.2	6.3	6.9	6.8	6.9	6.7	6.7	6.7
3	5.8	5.8	5.8	6.4	6.2	6.3	6.9	6.8	6.9	6.7	6.7	6.7
4	5.9	5.8	5.9	6.4	6.3	6.4	6.9	6.8	6.9	6.8	6.7	6.8
5	5.9	5.9	5.9	6.4	6.3	6.4	6.9	6.8	6.8	7.0	6.7	6.8
6	5.9	5.9	5.9	6.4	6.4	6.4	6.8	6.7	6.8	6.8	6.7	6.8
7	6.0	5.9	6.0	6.6	6.4	6.5	7.0	6.7	6.8	6.8	6.7	6.7
8	6.0	6.0	6.0	6.6	6.5	6.6	6.9	6.8	6.8	6.8	6.7	6.7
9	6.0	6.0	6.0	6.6	6.5	6.6	6.8	6.8	6.8	6.8	6.7	6.7
10	6.1	6.0	6.0	6.6	6.5	6.5	6.8	6.7	6.8	6.8	6.7	6.8
11	6.1	6.1	6.1	6.6	6.5	6.5	6.8	6.7	6.7	6.8	6.7	6.8
12	6.2	6.1	6.1	6.6	6.5	6.5	6.7	6.7	6.7	6.9	6.6	6.7
13	6.2	6.1	6.2	6.6	6.5	6.5	6.8	6.7	6.7	6.9	6.8	6.8
14	6.3	6.2	6.3	6.6	6.5	6.6	6.8	6.8	6.8	6.9	6.8	6.9
15	6.3	6.3	6.3	6.7	6.6	6.6	6.8	6.7	6.8	6.9	6.8	6.8
16	6.3	6.3	6.3	6.7	6.6	6.7	6.7	6.6	6.7	6.8	6.7	6.7
17	6.4	6.3	6.4	6.8	6.7	6.7	6.7	6.6	6.7	6.7	6.5	6.6
18	6.4	6.0	6.2	6.7	6.6	6.6	6.8	6.7	6.7	6.6	6.5	6.5
19	6.0	5.8	5.9	6.7	6.6	6.7	6.8	6.8	6.8	6.6	6.5	6.5
20	5.9	5.8	5.9	6.7	6.6	6.6	6.8	6.5	6.7	6.6	6.5	6.6
21	5.9	5.9	5.9	6.7	6.6	6.6	6.6	6.5	6.5	6.8	6.6	6.7
22	6.0	5.9	5.9	6.7	6.6	6.7	6.5	6.5	6.5	6.7	6.6	6.7
23	6.0	6.0	6.0	6.7	6.7	6.7	6.5	6.4	6.5	6.6	6.6	6.6
24	6.1	6.0	6.0	6.8	6.7	6.7	6.5	6.4	6.4	6.7	6.6	6.6
25	6.1	6.1	6.1	6.7	6.6	6.7	6.6	6.4	6.5	6.7	6.6	6.7
26	6.1	6.1	6.1	6.8	6.7	6.7	6.5	6.4	6.4	6.6	6.4	6.5
27	6.2	6.1	6.1	6.8	6.7	6.8	6.5	6.4	6.5	6.4	6.3	6.3
28	6.2	6.2	6.2	6.8	6.7	6.8	6.7	6.4	6.5	6.3	6.3	6.3
29	6.2	6.2	6.2	6.8	6.7	6.8	6.7	6.6	6.7	6.3	6.3	6.3
30	6.2	6.2	6.2	6.9	6.6	6.8	6.7	6.7	6.7	6.4	6.3	6.3
31	6.2	6.2	6.2	---	---	---	6.7	6.7	6.7	6.4	6.3	6.3
MONTH	6.4	5.7	6.0	6.9	6.2	6.6	7.0	6.4	6.7	7.0	6.3	6.6

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	6.3	6.2	6.2	6.6	6.5	6.5	6.7	6.7	6.7	6.8	6.6	6.7
2	6.2	6.2	6.2	6.7	6.6	6.6	6.7	6.7	6.7	7.0	6.5	6.8
3	6.2	6.2	6.2	6.6	6.5	6.6	6.8	6.7	6.7	6.8	6.6	6.7
4	6.2	6.2	6.2	6.8	6.5	6.7	6.8	6.7	6.7	6.8	6.6	6.7
5	6.2	6.1	6.2	6.8	6.6	6.6	7.0	6.7	6.8	6.8	6.6	6.7
6	6.1	6.1	6.1	6.6	6.6	6.6	6.9	6.8	6.8	6.8	6.7	6.7
7	6.1	6.1	6.1	6.8	6.6	6.7	6.9	6.8	6.8	6.8	6.7	6.7
8	6.2	6.1	6.2	6.8	6.6	6.7	7.0	6.8	6.9	6.8	6.7	6.7
9	6.2	6.2	6.2	6.9	6.7	6.7	7.3	6.9	7.1	6.9	6.7	6.8
10	6.4	6.1	6.2	6.7	6.7	6.7	7.3	7.0	7.1	6.9	6.8	6.9
11	6.4	6.4	6.4	6.8	6.7	6.7	7.0	6.9	7.0	7.0	6.8	6.9
12	6.5	6.4	6.5	6.9	6.7	6.8	7.0	6.9	6.9	7.1	6.8	6.9
13	6.5	6.4	6.5	7.0	6.9	6.9	7.1	7.0	7.0	6.9	6.8	6.8
14	6.6	6.4	6.5	6.9	6.7	6.8	7.1	7.0	7.0	7.2	6.8	7.0
15	6.5	6.4	6.5	6.8	6.7	6.7	7.0	6.9	7.0	7.4	6.7	7.0
16	6.5	6.4	6.5	6.8	6.7	6.7	6.9	6.8	6.9	7.2	6.7	6.9
17	6.6	6.5	6.5	6.8	6.6	6.7	6.8	6.7	6.8	6.9	6.5	6.7
18	6.6	6.5	6.5	6.7	6.4	6.6	6.8	6.7	6.7	6.8	6.6	6.6
19	6.5	6.4	6.5	6.5	6.4	6.4	6.8	6.6	6.8	6.8	6.5	6.6
20	6.5	6.4	6.5	6.7	6.5	6.6	6.8	6.7	6.8	6.8	6.5	6.6
21	6.5	6.4	6.5	6.7	6.5	6.6	6.8	6.8	6.8	6.8	6.3	6.6
22	6.5	6.4	6.5	6.9	6.5	6.7	6.8	6.6	6.7	6.6	6.2	6.4
23	6.6	6.5	6.6	6.9	6.7	6.8	6.8	6.7	6.8	6.7	6.2	6.4
24	6.6	6.5	6.6	6.7	6.5	6.6	6.8	6.8	6.8	6.6	6.3	6.4
25	6.7	6.5	6.5	6.6	6.6	6.6	6.9	6.7	6.8	7.0	6.4	6.5
26	6.5	6.5	6.5	6.7	6.6	6.6	6.8	6.7	6.8	7.0	6.5	6.8
27	6.6	6.5	6.5	6.7	6.6	6.7	6.8	6.7	6.7	6.8	6.6	6.7
28	6.6	6.5	6.5	6.7	6.5	6.7	6.8	6.6	6.7	6.9	6.5	6.7
29	6.6	6.5	6.5	6.7	6.6	6.7	6.8	6.6	6.7	7.0	6.6	6.8
30	---	---	---	---	---	---	6.8	6.6	6.7	7.2	6.8	7.0
31	---	---	---	6.7	6.6	6.7	---	---	---	7.2	6.7	7.0
MONTH	6.7	6.1	6.4	---	---	---	7.3	6.6	6.8	7.4	6.2	6.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.8	6.6	6.7	6.8	6.7	6.8	6.0	6.0	6.0	---	---	---
2	6.7	6.6	6.6	6.9	6.7	6.7	---	---	---	---	---	---
3	6.8	6.7	6.7	6.9	6.7	6.7	---	---	---	---	---	---
4	6.8	6.7	6.7	7.0	6.7	6.9	6.2	6.1	6.2	---	---	---
5	6.7	6.7	6.7	7.2	6.8	7.0	6.2	6.2	6.2	---	---	---
6	6.8	6.6	6.7	7.2	6.7	6.9	6.3	6.2	6.3	---	---	---
7	7.0	6.6	6.8	7.0	6.6	6.8	6.3	6.2	6.2	6.4	6.3	6.4
8	6.9	6.8	6.8	---	---	---	6.3	6.2	6.2	6.4	6.4	6.4
9	6.8	6.7	6.8	6.8	6.7	6.7	6.4	6.2	6.3	6.5	6.4	6.5
10	6.9	6.8	6.9	6.9	6.7	6.7	6.4	6.3	6.4	6.5	6.3	6.5
11	7.0	6.9	6.9	7.1	6.8	6.9	6.4	6.3	6.3	6.5	6.4	6.5
12	7.0	6.2	6.7	---	---	---	6.4	6.3	6.3	6.5	6.4	6.4
13	6.2	6.2	6.2	---	---	---	6.6	6.2	6.3	6.5	6.3	6.4
14	6.5	6.2	6.2	---	---	---	6.5	6.2	6.3	6.6	6.4	6.5
15	7.0	6.2	6.5	7.2	6.7	6.9	6.6	6.3	6.5	6.7	6.6	6.6
16	6.9	6.4	6.6	7.2	6.8	7.0	6.7	6.6	6.7	6.8	6.6	6.7
17	7.1	6.4	6.6	7.3	6.8	7.0	6.7	6.7	6.7	6.7	6.6	6.7
18	7.1	6.5	6.7	8.7	6.7	6.9	---	---	---	6.8	6.5	6.7
19	7.1	6.4	6.6	---	---	---	6.7	6.5	6.6	6.8	6.6	6.7
20	6.8	6.4	6.6	7.8	6.6	7.2	6.7	6.6	6.6	6.7	6.6	6.6
21	6.8	6.5	6.6	---	---	---	6.6	6.5	6.6	6.7	6.6	6.7
22	7.1	6.5	6.6	---	---	---	6.6	6.5	6.6	6.7	6.6	6.6
23	7.2	6.6	6.9	---	---	---	6.8	6.6	6.7	6.7	6.6	6.6
24	7.0	6.5	6.7	---	---	---	6.8	6.7	6.8	6.7	6.5	6.6
25	7.0	6.5	6.7	---	---	---	6.8	6.6	6.7	6.6	6.5	6.5
26	6.8	6.5	6.6	---	---	---	6.7	6.6	6.7	6.6	6.4	6.5
27	6.9	6.5	6.7	6.8	6.6	6.7	6.7	6.6	6.7	6.5	6.3	6.5
28	7.4	6.6	6.8	6.8	6.6	6.7	6.9	6.7	6.8	6.5	6.4	6.5
29	7.0	6.8	6.9	6.6	6.3	6.4	7.0	6.7	6.8	6.5	6.3	6.5
30	7.0	6.8	6.9	6.3	6.0	6.1	7.2	6.7	6.9	6.5	6.3	6.4
31	---	---	---	6.1	6.0	6.0	---	---	---	---	---	---
MONTH	7.4	6.2	6.7	---	---	---	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	21.2	20.7	20.9	16.3	14.6	15.3	12.5	10.6	11.5	6.8	5.7	6.1
2	21.1	20.5	20.8	16.3	15.5	15.8	10.6	9.8	10.3	7.8	6.2	6.9
3	21.2	20.5	20.8	15.8	15.1	15.5	10.3	9.6	9.9	9.4	7.0	8.1
4	21.1	20.6	20.8	15.4	14.7	15.1	10.2	9.1	9.6	11.9	8.4	9.6
5	20.9	20.1	20.6	15.1	13.9	14.4	10.8	9.4	10.0	11.1	9.7	10.2
6	20.1	19.5	19.8	14.8	13.4	14.0	11.1	10.1	10.6	10.0	9.1	9.6
7	19.6	19.0	19.3	14.2	13.2	13.7	11.0	9.6	10.1	10.6	9.9	10.2
8	19.3	18.5	18.8	14.3	12.7	13.2	10.8	9.3	9.9	10.3	9.6	9.9
9	19.1	18.4	18.7	13.9	12.6	13.2	11.1	9.7	10.3	9.6	9.3	9.4
10	19.5	18.5	18.9	14.7	13.0	13.6	11.3	10.2	10.6	10.2	9.2	9.5
11	19.9	19.1	19.4	14.9	13.6	14.1	11.1	10.0	10.6	10.4	9.1	9.7
12	20.2	19.2	19.7	14.9	14.2	14.5	10.6	9.5	9.9	10.6	9.8	10.1
13	20.3	19.1	19.7	15.2	14.1	14.6	10.8	9.7	10.2	10.7	9.8	10.2
14	20.8	19.5	20.0	15.4	14.4	14.9	12.0	10.5	11.1	9.9	8.6	9.1
15	20.7	19.4	19.8	15.1	14.1	14.5	11.6	10.7	11.2	8.6	7.9	8.3
16	20.1	19.4	19.7	14.2	13.1	13.5	11.3	10.4	10.8	7.9	7.4	7.7
17	20.1	19.5	19.8	13.1	12.2	12.7	11.3	10.2	10.6	7.4	6.2	6.8
18	21.0	20.0	20.4	13.4	12.2	12.5	10.5	10.0	10.2	6.2	5.3	5.7
19	20.3	19.3	19.8	13.1	11.7	12.2	10.0	9.6	9.8	5.5	4.9	5.2
20	19.5	18.6	19.0	13.5	11.9	12.4	10.9	9.9	10.1	---	---	---
21	18.6	17.6	18.1	13.5	11.9	12.6	10.4	10.0	10.1	---	---	---
22	17.6	17.1	17.3	14.2	12.5	13.2	10.2	9.5	9.9	4.1	3.4	3.8
23	17.1	16.3	16.8	14.2	13.2	13.6	9.7	9.2	9.4	3.8	3.4	3.6
24	16.3	15.1	15.7	15.2	13.8	14.3	9.4	8.6	9.0	3.4	3.2	3.4
25	15.1	14.4	14.8	15.7	14.4	14.9	8.6	7.3	7.9	3.2	2.5	2.8
26	14.5	14.0	14.2	16.3	15.1	15.6	7.6	6.7	7.1	2.5	1.7	2.2
27	14.2	13.7	14.0	16.6	16.0	16.3	6.8	6.0	6.4	1.7	1.0	1.4
28	13.9	13.4	13.7	16.3	15.5	15.9	6.3	5.7	5.9	1.3	.7	1.1
29	13.8	13.1	13.4	15.9	15.2	15.6	5.9	5.1	5.5	1.2	.6	.9
30	14.2	13.4	13.7	15.2	12.4	13.8	6.3	5.0	5.5	1.5	.8	1.1
31	15.2	13.9	14.5	---	---	---	6.8	5.3	5.9	2.5	1.4	2.0
MONTH	21.2	13.1	18.2	16.6	11.7	14.2	12.5	5.0	9.4	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.8	2.2	2.5	14.7	13.5	14.1	17.1	15.1	15.8	17.3	15.6	16.4
2	2.7	2.2	2.4	14.8	13.7	14.2	15.9	15.3	15.6	18.4	16.3	17.3
3	2.8	2.0	2.3	14.1	13.3	13.8	18.0	15.5	16.4	19.4	17.3	18.2
4	3.1	2.3	2.7	13.7	12.7	13.1	17.3	16.4	16.8	19.8	17.6	18.6
5	3.5	2.9	3.1	13.5	12.2	12.9	16.4	14.9	15.6	22.4	18.4	19.6
6	3.7	3.0	3.3	14.5	12.6	13.4	17.4	15.1	16.1	23.7	19.6	20.9
7	4.2	3.3	3.8	15.6	12.7	13.7	19.0	16.6	17.6	23.8	20.6	21.9
8	4.8	4.1	4.4	16.2	13.2	14.2	18.7	17.4	17.9	24.4	21.6	22.7
9	5.0	4.5	4.8	15.8	14.1	14.8	---	---	---	24.7	22.3	23.3
10	6.2	5.0	5.6	16.5	14.8	15.7	17.3	15.2	16.1	24.6	22.8	23.7
11	7.0	5.8	6.4	17.4	16.0	16.6	18.6	16.9	17.6	25.6	23.1	24.2
12	6.7	6.4	6.6	17.3	15.4	16.8	19.1	17.4	18.1	25.9	23.7	24.7
13	6.7	6.3	6.5	15.9	14.1	15.2	18.0	16.4	17.2	27.3	24.7	25.9
14	7.7	6.7	7.1	16.8	15.1	15.8	16.7	16.1	16.3	26.7	25.2	26.0
15	8.6	7.3	7.9	16.8	15.5	16.0	16.9	16.2	16.5	25.8	24.8	25.2
16	8.6	7.6	8.1	16.7	15.4	16.0	17.4	16.4	16.8	25.4	23.7	24.6
17	9.1	8.2	8.5	16.7	15.5	16.1	18.9	16.6	17.6	24.4	23.5	23.9
18	8.5	8.2	8.4	15.5	14.4	14.9	18.0	17.1	17.5	25.1	23.2	24.1
19	11.0	8.2	9.1	14.8	13.9	14.4	17.1	16.4	16.6	26.9	23.9	25.1
20	10.6	9.0	9.7	14.3	13.6	13.8	18.4	16.0	16.9	27.1	25.2	26.0
21	10.2	8.9	9.4	13.8	13.1	13.5	18.9	16.7	17.6	26.8	25.8	26.2
22	10.6	8.9	9.4	13.1	12.4	12.8	18.1	16.7	17.3	26.4	25.1	25.7
23	10.8	8.9	9.6	13.3	11.9	12.5	18.3	16.4	17.3	26.4	25.0	25.6
24	10.8	9.2	9.9	14.4	12.0	12.9	18.4	17.2	17.7	27.7	25.0	26.0
25	11.9	9.7	10.6	14.8	12.6	13.4	18.0	16.7	17.4	27.1	25.8	26.5
26	12.4	10.8	11.5	15.4	13.6	14.4	17.6	16.1	16.5	28.2	25.9	26.8
27	13.5	11.7	12.4	15.6	14.5	15.0	16.4	15.8	16.0	26.9	26.1	26.5
28	14.1	13.1	13.6	16.4	15.0	15.6	15.9	14.9	15.3	26.5	25.6	26.0
29	14.4	13.2	13.8	16.5	14.9	15.7	16.2	14.5	15.2	25.7	23.1	24.4
30	---	---	---	---	---	---	16.9	14.7	15.7	23.2	21.6	22.1
31	---	---	---	17.0	15.1	15.8	---	---	---	23.5	21.0	21.7
MONTH	14.4	2.0	7.4	---	---	---	---	---	---	28.2	15.6	23.5

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	25.4	20.7	21.9	29.5	27.4	28.3	26.1	24.2	24.9	---	---	---
2	27.8	21.6	22.7	30.5	27.8	28.7	---	---	---	---	---	---
3	25.0	22.6	23.6	---	---	---	---	---	---	---	---	---
4	23.9	23.1	23.3	---	---	---	26.1	25.3	25.5	---	---	---
5	23.2	22.9	23.1	---	---	---	26.7	25.3	25.9	---	---	---
6	24.0	22.9	23.3	28.1	27.4	27.7	27.1	25.4	26.1	---	---	---
7	24.4	22.6	23.3	28.2	27.2	27.6	28.0	25.8	26.6	23.1	22.4	22.7
8	25.9	22.9	24.1	28.7	27.0	27.7	28.2	26.2	27.0	22.9	22.1	22.5
9	26.4	23.1	24.6	27.9	27.1	27.4	28.9	26.8	27.6	23.2	22.1	22.5
10	26.8	23.9	25.2	29.2	26.7	27.7	28.4	26.7	27.5	24.4	21.9	22.6
11	28.1	24.6	26.2	29.6	27.9	28.6	27.9	26.7	27.2	23.5	22.1	22.7
12	28.6	25.1	26.6	---	---	---	27.3	26.2	26.7	25.1	22.6	23.2
13	30.0	25.9	27.5	---	---	---	26.8	25.5	26.0	24.6	23.3	23.7
14	30.6	26.3	28.3	---	---	---	25.7	24.8	25.2	26.6	24.0	24.8
15	29.9	26.9	28.0	29.1	27.1	27.9	26.5	24.5	25.2	25.9	24.4	25.0
16	29.6	27.6	28.5	30.1	27.6	28.3	27.1	24.9	25.9	25.0	23.8	24.5
17	30.1	27.9	28.7	30.2	27.8	28.6	---	---	---	24.3	23.4	23.7
18	30.1	28.2	29.0	30.8	28.4	29.4	---	---	---	23.8	22.3	23.1
19	30.8	28.7	29.4	---	---	---	27.5	25.4	26.1	23.2	22.4	22.7
20	29.1	28.0	28.4	29.7	28.4	28.8	---	---	---	24.0	22.2	23.1
21	30.0	27.3	28.5	28.7	27.8	28.2	26.3	25.0	25.6	24.4	22.7	23.4
22	29.9	28.4	29.0	---	---	---	26.2	24.5	25.1	24.5	23.5	23.8
23	30.7	27.9	29.2	---	---	---	---	---	---	23.8	23.0	23.2
24	30.5	28.5	29.4	---	---	---	27.2	25.1	25.9	24.6	23.0	23.7
25	30.6	28.5	29.5	---	---	---	26.9	25.5	26.3	25.4	23.5	24.1
26	30.2	28.2	29.1	---	---	---	27.4	25.6	26.3	23.8	22.5	23.1
27	30.1	28.0	29.0	26.7	25.1	25.9	27.5	25.6	26.5	22.5	20.5	21.8
28	29.6	28.5	29.0	28.3	25.1	26.1	26.5	25.6	26.0	21.1	19.8	20.5
29	28.9	28.0	28.4	27.0	25.0	25.6	27.1	25.4	26.0	20.2	19.3	19.6
30	29.3	27.5	28.1	25.3	24.1	24.7	26.2	25.3	25.8	19.9	18.8	19.2
31	---	---	---	25.7	23.9	24.5	---	---	---	---	---	---
MONTH	30.8	20.7	26.8	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	21.2	20.7	20.9	15.7	14.5	15.0	12.4	10.3	11.3	6.4	5.7	6.0
2	21.1	20.6	20.8	16.3	15.4	15.7	10.6	9.3	10.1	7.4	6.1	6.6
3	21.2	20.5	20.8	15.8	14.8	15.4	10.3	9.5	9.8	8.6	6.9	7.6
4	21.1	20.6	20.8	15.4	14.4	15.0	10.0	9.1	9.5	11.0	8.1	9.3
5	20.9	20.1	20.6	14.7	13.9	14.2	10.3	9.2	9.7	10.7	9.6	10.1
6	20.1	19.5	19.8	14.1	13.3	13.7	10.9	9.7	10.3	10.0	9.0	9.5
7	19.5	19.0	19.3	13.9	12.9	13.3	10.6	9.4	9.9	10.5	9.7	10.1
8	19.1	18.5	18.8	13.4	12.6	13.0	10.2	9.3	9.7	10.3	9.4	9.7
9	19.0	18.4	18.7	13.6	12.6	13.0	10.6	9.6	10.0	9.6	9.2	9.4
10	19.2	18.5	18.9	14.1	12.9	13.5	11.1	10.2	10.5	9.8	9.2	9.4
11	19.7	19.1	19.4	14.4	13.6	13.8	10.8	10.0	10.5	10.3	9.0	9.7
12	20.0	19.2	19.6	14.7	14.1	14.3	10.0	9.5	9.7	10.4	9.7	10.1
13	19.9	19.1	19.6	14.8	14.0	14.3	10.7	9.7	10.0	10.7	9.6	10.2
14	20.6	19.4	19.9	15.3	14.2	14.7	11.6	10.4	10.9	9.9	8.6	9.1
15	20.1	19.0	19.4	14.9	14.1	14.4	11.1	10.6	10.9	8.6	8.0	8.3
16	19.9	19.3	19.5	14.1	12.9	13.5	11.3	10.5	10.8	8.0	7.4	7.7
17	19.9	19.4	19.6	13.1	11.8	12.4	10.9	10.1	10.6	7.4	6.3	6.9
18	20.6	19.9	20.3	12.6	12.0	12.3	10.5	10.0	10.2	6.3	5.3	5.7
19	20.2	19.3	19.7	12.5	11.7	12.0	10.0	9.6	9.7	5.5	4.8	5.2
20	19.3	18.6	19.0	12.5	11.8	12.0	10.2	9.9	10.0	5.4	4.6	5.1
21	18.6	17.6	18.1	13.0	11.8	12.2	10.2	10.0	10.1	4.6	3.3	4.0
22	17.6	17.1	17.3	13.6	12.4	12.8	10.1	9.5	9.8	4.1	3.5	3.8
23	17.1	16.2	16.7	14.0	13.2	13.4	9.6	9.1	9.4	3.8	3.4	3.7
24	16.2	15.1	15.6	14.8	13.7	14.1	9.4	8.5	9.0	3.5	3.3	3.4
25	15.1	14.4	14.7	15.4	14.4	14.7	8.6	7.1	7.8	3.3	2.5	2.8
26	14.4	13.9	14.2	16.3	15.1	15.5	7.6	6.7	7.0	2.6	1.7	2.2
27	14.2	13.7	13.9	16.6	16.0	16.2	6.9	6.0	6.4	1.8	1.1	1.5
28	13.9	13.4	13.6	16.2	15.4	15.8	6.1	5.7	5.9	1.4	.9	1.1
29	13.6	13.1	13.4	15.9	15.2	15.5	5.8	5.1	5.4	1.2	.6	.9
30	14.1	13.4	13.7	15.2	12.4	13.7	5.8	5.0	5.4	1.5	.9	1.2
31	14.9	13.8	14.3	---	---	---	6.1	5.3	5.6	2.5	1.4	2.0
MONTH	21.2	13.1	18.1	16.6	11.7	14.0	12.4	5.0	9.2	11.0	.6	6.2

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	2.8	2.2	2.5	14.5	13.2	13.9	16.2	15.1	15.5	17.1	15.4	16.2
2	2.8	2.2	2.4	14.5	13.7	14.1	15.9	15.2	15.5	18.0	16.2	17.1
3	2.8	2.0	2.3	14.0	13.2	13.7	17.6	15.5	16.0	19.0	17.2	17.9
4	3.1	2.3	2.7	13.5	12.7	13.0	17.2	16.4	16.7	19.1	17.5	18.2
5	3.6	2.9	3.2	12.7	12.2	12.4	16.4	14.8	15.5	20.3	18.4	18.9
6	3.7	3.0	3.3	12.4	12.2	12.3	17.2	14.9	16.0	21.3	19.5	20.0
7	4.2	3.3	3.8	13.5	12.2	12.6	18.2	16.5	17.0	22.2	20.5	20.9
8	4.7	4.1	4.4	14.7	13.0	13.4	18.5	17.2	17.8	23.3	21.5	22.0
9	5.0	4.5	4.8	15.5	13.9	14.5	17.9	15.1	16.3	23.9	22.2	22.8
10	6.1	5.0	5.5	16.2	14.6	14.9	17.3	15.0	15.5	24.0	22.7	23.2
11	7.0	5.8	6.4	17.3	15.8	16.5	18.4	16.8	17.5	24.2	23.0	23.5
12	6.7	6.4	6.6	17.1	15.4	16.8	18.1	17.4	17.8	24.4	23.6	24.0
13	6.7	6.3	6.5	15.5	13.9	14.9	18.0	16.3	17.2	25.3	24.2	24.7
14	7.5	6.6	7.0	15.9	14.9	15.3	16.7	15.7	16.1	26.2	24.8	25.7
15	8.3	7.3	7.7	16.2	15.3	15.7	16.8	16.1	16.4	25.8	24.6	25.2
16	8.5	7.5	8.0	16.4	15.3	15.8	16.9	16.1	16.4	24.9	23.6	24.2
17	8.9	8.2	8.5	16.3	15.5	15.9	18.6	16.6	17.0	24.3	23.3	23.8
18	8.4	8.2	8.3	15.5	14.2	14.8	17.7	17.0	17.3	24.6	23.2	23.8
19	9.8	8.2	8.9	14.8	13.4	14.1	17.1	16.2	16.5	25.4	23.7	24.4
20	10.0	9.0	9.5	14.2	13.6	13.8	17.5	16.0	16.5	26.6	24.9	25.5
21	10.1	8.9	9.3	13.7	13.1	13.5	18.1	16.7	17.3	26.8	25.6	26.1
22	10.1	8.8	9.3	13.1	12.3	12.7	17.6	16.7	17.2	26.4	25.0	25.7
23	10.0	8.9	9.4	13.3	12.0	12.5	17.9	16.4	17.1	25.9	24.9	25.4
24	10.2	9.2	9.7	13.7	12.0	12.6	18.2	17.2	17.7	25.8	25.0	25.2
25	11.0	9.6	10.3	14.2	12.6	13.3	18.0	16.7	17.4	26.9	25.6	26.0
26	12.1	10.7	11.3	15.1	13.5	14.3	16.9	15.9	16.3	26.9	25.8	26.2
27	13.2	11.6	12.3	15.3	14.4	14.9	16.4	15.7	16.0	26.7	26.0	26.3
28	14.1	13.1	13.5	16.3	14.9	15.5	15.9	14.9	15.3	26.5	25.6	25.9
29	14.3	13.0	13.7	16.2	14.9	15.7	15.9	14.4	15.1	25.7	23.0	24.3
30	---	---	---	---	---	---	16.5	14.7	15.4	23.1	21.5	22.0
31	---	---	---	16.3	15.0	15.6	---	---	---	22.3	20.9	21.4
MONTH	14.3	2.0	7.3	---	---	---	18.6	14.4	16.5	26.9	15.4	23.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.9	20.5	21.2	28.3	27.9	28.1	25.5	24.2	24.7	---	---	---
2	22.5	21.3	21.7	28.4	28.0	28.1	---	---	---	---	---	---
3	24.8	22.4	23.3	28.3	27.5	28.1	---	---	---	---	---	---
4	23.8	23.0	23.3	27.9	26.7	27.2	25.8	25.3	25.5	---	---	---
5	23.1	22.8	23.0	27.9	27.0	27.4	26.3	25.3	25.7	---	---	---
6	23.8	22.8	23.2	28.1	27.4	27.6	26.5	25.3	25.9	---	---	---
7	23.8	22.1	22.9	27.9	27.2	27.6	27.0	25.7	26.3	23.1	22.4	22.7
8	23.6	22.7	23.0	---	---	---	27.5	26.2	26.8	22.8	22.1	22.5
9	24.0	23.0	23.3	28.0	27.1	27.4	28.1	26.6	27.4	22.9	22.1	22.4
10	24.9	23.6	24.1	28.3	26.6	27.1	27.9	26.7	27.3	23.1	22.0	22.4
11	25.0	24.3	24.6	28.6	27.6	27.9	27.4	26.7	27.0	23.1	22.1	22.6
12	25.2	24.2	25.0	---	---	---	26.9	26.2	26.5	24.1	22.6	23.0
13	24.2	23.5	23.7	---	---	---	26.8	25.5	26.0	23.8	23.3	23.5
14	25.6	23.5	23.7	---	---	---	26.1	24.6	25.3	25.3	23.7	24.2
15	28.0	23.9	25.3	28.7	27.0	27.8	26.5	24.9	26.2	25.3	24.4	24.8
16	27.9	26.2	27.0	28.9	27.5	27.9	26.7	26.4	26.5	25.0	23.7	24.4
17	28.6	26.3	27.2	28.9	27.8	28.2	26.6	26.4	26.5	24.2	22.8	23.6
18	28.8	27.3	28.0	30.8	28.4	28.7	---	---	---	23.7	22.5	23.1
19	28.9	27.3	27.9	---	---	---	26.8	25.6	26.2	23.2	22.3	22.7
20	28.6	27.4	27.9	29.3	28.4	28.8	27.0	26.5	26.7	23.3	22.2	22.6
21	28.4	26.9	27.3	---	---	---	26.9	26.7	26.8	24.0	22.6	23.0
22	28.8	27.0	27.7	---	---	---	26.9	26.8	26.9	24.2	23.3	23.7
23	28.8	27.8	28.1	---	---	---	26.9	26.7	26.8	23.5	23.0	23.2
24	29.2	27.7	28.1	---	---	---	26.8	26.5	26.7	24.3	22.9	23.4
25	29.1	27.9	28.4	---	---	---	26.6	26.3	26.5	24.5	23.5	23.9
26	28.6	28.1	28.2	---	---	---	26.5	26.3	26.3	23.8	22.2	23.1
27	28.7	27.9	28.2	26.2	25.0	25.5	26.6	26.3	26.3	22.2	20.5	21.7
28	29.4	28.2	28.5	26.8	25.0	25.6	26.5	26.0	26.2	21.0	19.9	20.4
29	28.9	28.0	28.4	25.8	24.6	25.0	26.6	26.0	26.2	20.1	19.3	19.6
30	28.2	27.4	27.9	24.9	24.1	24.4	26.4	25.3	26.0	19.8	18.8	19.1
31	---	---	---	24.9	23.9	24.3	---	---	---	---	---	---
MONTH	29.4	20.5	25.7	---	---	---	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	2.2	1.9	2.0	6.2	5.8	6.0	8.7	7.6	8.2	11.3	10.7	11.0
2	2.3	2.2	2.2	7.0	6.0	6.5	8.8	8.2	8.4	11.2	10.6	10.9
3	2.5	2.3	2.4	7.1	6.1	6.6	8.8	8.3	8.6	11.1	10.2	10.7
4	2.7	2.5	2.6	6.7	6.2	6.5	9.1	8.4	8.9	11.0	10.1	10.7
5	2.9	2.7	2.8	7.0	5.7	6.8	9.3	8.8	9.0	10.8	9.6	10.3
6	3.2	2.9	3.0	7.2	5.7	6.7	9.6	8.8	9.2	10.7	9.9	10.3
7	3.4	3.1	3.2	7.6	6.2	6.9	9.9	8.8	9.4	10.1	9.2	9.7
8	3.5	3.3	3.4	7.8	6.6	7.5	9.7	9.3	9.4	9.8	9.3	9.6
9	3.4	3.1	3.3	7.8	7.0	7.6	9.5	8.9	9.2	10.0	9.5	9.8
10	3.2	2.9	3.1	7.6	6.9	7.4	9.4	8.8	9.0	10.3	9.8	10.1
11	3.1	2.8	2.9	7.4	6.6	7.2	9.3	8.9	9.1	10.3	9.5	10.0
12	3.9	2.8	3.3	7.4	7.0	7.3	9.4	9.1	9.2	10.2	9.6	9.8
13	4.4	3.4	3.9	---	---	---	9.5	9.1	9.3	9.7	9.2	9.6
14	5.2	4.1	4.6	---	---	---	9.7	9.0	9.4	10.1	9.4	9.8
15	5.2	4.5	4.7	---	---	---	9.7	8.9	9.3	10.2	10.0	10.1
16	5.5	4.5	5.0	---	---	---	9.7	9.2	9.5	10.3	9.8	10.0
17	6.8	5.1	5.8	---	---	---	9.6	9.0	9.2	10.5	9.8	10.1
18	6.5	5.1	5.7	7.1	6.9	7.0	9.7	9.3	9.5	10.6	10.3	10.5
19	5.1	4.4	4.7	7.3	7.0	7.2	10.1	9.5	9.9	10.7	10.0	10.6
20	4.7	4.3	4.5	7.5	7.1	7.3	10.1	9.3	9.8	---	---	---
21	4.7	4.6	4.6	7.8	7.2	7.5	9.7	9.1	9.4	---	---	---
22	4.9	4.6	4.7	7.8	7.5	7.6	9.8	9.3	9.5	12.0	11.1	11.6
23	5.1	4.8	4.9	7.8	7.5	7.7	9.7	9.4	9.5	11.8	11.4	11.6
24	5.5	5.1	5.3	8.0	7.4	7.6	9.7	9.2	9.4	12.2	11.5	11.8
25	5.9	5.5	5.7	7.5	7.0	7.3	10.3	9.5	9.9	12.3	11.5	11.9
26	6.1	5.8	6.0	7.6	7.1	7.3	10.8	9.9	10.3	12.3	11.9	12.1
27	6.3	6.0	6.1	7.5	6.9	7.2	11.1	10.1	10.6	12.5	11.9	12.3
28	6.3	6.1	6.2	7.3	6.8	7.0	11.1	10.5	10.8	12.7	11.9	12.4
29	6.3	6.1	6.2	7.1	6.6	6.7	11.3	10.5	11.0	12.9	12.1	12.6
30	6.3	6.0	6.1	8.2	6.6	7.2	11.3	10.7	11.1	13.0	12.6	12.9
31	6.2	5.5	5.8	---	---	---	11.4	10.3	11.0	12.9	11.8	12.4
MONTH	6.8	1.9	4.3	---	---	---	11.4	7.6	9.5	---	---	---

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

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	7.1	6.0	6.2	7.9	5.0	6.1	4.2	3.8	4.0	---	---	---
2	6.6	5.7	6.0	8.8	5.5	6.6	---	---	---	---	---	---
3	6.9	5.8	6.3	---	---	---	---	---	---	---	---	---
4	6.6	6.0	6.3	---	---	---	4.0	3.7	3.9	---	---	---
5	6.2	5.6	6.0	---	---	---	4.1	3.6	3.8	---	---	---
6	6.5	5.4	5.9	7.4	5.5	6.1	4.2	3.8	4.1	---	---	---
7	7.2	5.8	6.5	7.1	5.7	6.2	4.2	3.6	4.0	5.1	4.6	4.8
8	7.3	5.9	6.5	7.0	5.6	6.1	4.3	3.8	4.1	5.0	4.7	4.8
9	7.9	5.5	6.3	6.8	5.2	5.9	4.9	4.1	4.4	5.0	4.5	4.9
10	8.1	5.5	6.5	8.2	5.5	6.7	4.9	4.2	4.5	5.2	4.6	5.0
11	9.3	5.8	7.3	8.6	6.4	7.3	4.3	3.9	4.1	5.0	4.4	4.9
12	9.8	5.7	7.5	---	---	---	4.5	3.8	4.2	5.0	4.5	4.8
13	10.6	6.7	8.3	---	---	---	4.4	3.8	4.0	4.8	4.1	4.5
14	9.7	6.4	8.2	---	---	---	4.9	3.9	4.4	5.6	4.4	4.8
15	8.5	6.4	7.5	10.2	8.1	8.9	4.8	4.2	4.4	5.4	4.4	4.9
16	9.0	7.1	7.8	10.5	7.9	8.8	5.3	4.4	4.8	6.2	5.1	5.5
17	8.4	6.9	7.5	10.7	7.3	8.5	---	---	---	6.3	5.4	5.8
18	8.4	6.6	7.3	11.4	7.8	9.2	---	---	---	7.2	5.5	6.0
19	8.5	6.4	7.2	---	---	---	6.0	4.6	5.2	6.8	5.4	5.8
20	7.2	5.4	6.1	9.3	6.9	8.0	---	---	---	6.0	5.2	5.7
21	8.8	5.6	6.8	7.9	6.7	7.3	5.9	3.8	4.7	6.0	5.4	5.7
22	7.8	6.1	6.8	---	---	---	6.5	4.2	4.9	6.0	5.4	5.6
23	8.4	5.4	6.5	---	---	---	---	---	---	6.3	5.6	5.9
24	8.1	5.4	6.7	---	---	---	5.6	4.0	4.9	5.8	5.0	5.4
25	8.8	6.0	7.2	---	---	---	5.9	1.7	4.4	5.8	4.8	5.3
26	8.3	5.9	7.0	---	---	---	5.9	2.5	4.1	6.0	4.7	5.4
27	8.5	5.7	7.1	6.0	5.2	5.6	7.6	4.1	5.8	6.0	4.8	5.4
28	7.5	5.6	6.6	6.6	5.4	5.8	6.0	5.0	5.5	6.1	4.9	5.5
29	5.6	4.8	5.3	5.8	5.2	5.5	7.5	4.8	5.7	6.5	5.8	6.1
30	7.4	4.5	5.6	5.2	4.6	4.9	6.9	4.8	5.8	6.3	5.7	6.1
31	---	---	---	4.6	4.0	4.3	---	---	---	---	---	---
MONTH	10.6	4.5	6.8	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	2.3	1.9	2.1	5.8	4.5	5.2	9.2	7.8	8.4	11.0	10.7	10.9
2	2.4	2.2	2.3	7.1	4.9	6.0	9.1	8.5	8.7	10.9	10.3	10.7
3	2.5	2.3	2.4	6.8	5.4	6.1	9.1	8.5	8.8	10.7	10.3	10.6
4	2.7	2.5	2.6	6.4	5.1	5.9	9.3	8.8	9.1	10.6	10.1	10.5
5	2.9	2.6	2.7	6.8	5.4	6.3	9.5	9.1	9.3	10.5	9.8	10.2
6	3.2	2.8	2.9	7.4	6.1	6.6	9.6	9.2	9.4	10.2	9.6	9.9
7	3.5	3.1	3.3	7.5	6.2	6.9	10.1	8.7	9.6	9.9	9.1	9.4
8	3.5	3.3	3.4	7.5	6.1	7.0	9.8	9.4	9.6	9.4	9.0	9.1
9	3.4	3.1	3.2	7.6	6.6	7.1	9.6	9.0	9.3	9.4	9.2	9.3
10	3.2	2.9	3.0	7.8	6.6	7.0	9.3	8.9	9.1	9.8	9.4	9.6
11	3.1	2.5	2.9	7.7	6.3	7.0	9.5	9.1	9.3	9.8	9.2	9.6
12	3.8	2.7	3.1	7.7	6.5	7.1	9.6	9.3	9.4	9.8	8.9	9.2
13	4.1	3.3	3.7	---	---	---	9.6	9.2	9.5	9.4	8.5	8.8
14	5.0	3.7	4.3	---	---	---	9.7	9.4	9.5	9.3	8.6	9.0
15	5.3	4.1	4.5	---	---	---	9.7	9.3	9.5	9.4	9.1	9.2
16	5.3	4.7	4.9	---	---	---	9.7	9.2	9.5	9.4	9.1	9.2
17	6.7	4.9	5.6	---	---	---	9.5	9.0	9.2	9.8	9.2	9.5
18	6.7	5.1	5.9	7.4	7.2	7.3	9.7	9.3	9.5	9.9	9.6	9.7
19	5.1	4.3	4.6	7.7	7.2	7.4	10.2	9.6	10.0	9.9	9.7	9.8
20	4.5	4.1	4.3	7.8	7.4	7.7	10.1	9.6	9.8	10.4	9.8	10.0
21	4.7	4.3	4.4	8.0	7.6	7.8	9.7	9.3	9.5	11.0	10.4	10.8
22	4.9	4.0	4.4	8.1	7.7	7.9	9.8	9.4	9.6	11.0	10.6	10.7
23	4.8	4.1	4.6	8.1	7.8	7.9	9.7	9.4	9.6	11.1	10.6	10.8
24	5.0	4.6	4.9	7.9	7.6	7.8	9.8	9.1	9.4	11.2	10.7	11.0
25	5.4	4.9	5.2	7.7	7.4	7.5	10.4	9.5	9.8	11.5	11.1	11.2
26	5.6	5.3	5.5	7.6	7.1	7.4	10.5	9.7	10.1	11.5	11.1	11.2
27	6.3	5.3	5.8	7.7	7.0	7.4	10.8	9.9	10.5	11.8	11.3	11.6
28	6.4	5.7	6.1	7.4	6.6	7.1	11.0	10.5	10.8	12.0	11.6	11.7
29	6.4	5.8	6.2	7.2	6.6	6.8	11.1	10.6	10.9	12.1	11.8	11.9
30	6.5	5.6	6.0	8.5	6.8	7.4	11.1	10.7	11.0	12.2	11.9	12.1
31	6.1	4.8	5.5	---	---	---	11.1	10.8	11.0	12.1	11.5	11.8
MONTH	6.7	1.9	4.2	---	---	---	11.1	7.8	9.6	12.2	8.5	10.3

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	11.7	11.3	11.4	8.3	7.9	8.1	6.1	5.9	6.0	7.3	6.7	7.0
2	11.6	11.3	11.5	8.4	8.0	8.1	6.3	6.0	6.1	7.8	6.7	7.1
3	11.8	11.5	11.6	8.2	5.0	8.0	6.3	6.1	6.2	6.8	6.2	6.6
4	11.8	11.4	11.5	8.4	4.3	6.9	6.3	6.0	6.2	6.5	6.0	6.3
5	11.7	11.3	11.5	8.3	3.2	6.8	7.0	6.0	6.4	6.5	5.9	6.2
6	11.7	11.4	11.5	3.9	2.4	3.0	6.7	6.1	6.4	6.3	5.9	6.1
7	11.6	11.2	11.3	8.5	2.5	4.3	6.4	6.0	6.2	6.3	6.0	6.1
8	11.4	11.0	11.1	8.5	5.4	7.9	6.6	5.9	6.1	6.6	6.0	6.2
9	11.2	10.9	11.0	8.6	7.0	8.2	7.3	6.1	6.6	6.9	6.0	6.4
10	11.1	10.6	10.8	8.4	8.0	8.3	7.3	6.4	6.9	6.8	6.2	6.5
11	10.6	10.3	10.4	8.4	8.0	8.2	6.7	6.2	6.3	7.4	6.2	6.8
12	10.4	10.3	10.3	8.4	7.7	7.9	6.7	6.0	6.2	7.8	6.8	7.2
13	10.3	10.0	10.1	8.6	8.2	8.4	6.7	6.3	6.4	7.3	6.6	6.9
14	10.1	9.9	10.0	8.3	7.2	7.7	6.5	6.2	6.3	8.3	6.6	7.5
15	10.0	9.7	9.8	7.6	7.3	7.4	6.7	6.2	6.4	8.7	6.4	7.6
16	9.9	9.8	9.9	7.9	7.3	7.5	6.6	6.1	6.4	8.6	6.8	7.8
17	9.9	9.6	9.8	8.0	7.3	7.6	6.4	6.0	6.2	8.1	6.6	7.2
18	9.8	9.6	9.7	7.6	6.8	7.1	6.3	5.9	6.1	8.7	6.9	7.3
19	9.7	9.4	9.6	7.3	6.4	6.8	6.4	5.7	6.0	7.8	6.9	7.3
20	9.5	9.3	9.4	7.9	7.1	7.5	6.1	5.6	5.9	8.0	6.8	7.3
21	9.4	9.3	9.4	7.9	7.2	7.7	6.2	5.8	6.0	7.8	6.8	7.2
22	9.5	9.3	9.4	8.2	7.4	7.8	6.2	5.6	5.9	7.1	5.9	6.5
23	9.7	9.4	9.6	7.7	6.9	7.3	6.3	5.8	6.2	7.0	6.1	6.5
24	9.7	9.5	9.6	6.9	6.5	6.8	6.4	6.0	6.2	7.4	5.6	6.3
25	9.6	9.4	9.5	6.8	6.5	6.7	6.4	5.9	6.2	8.5	6.5	7.2
26	9.4	9.1	9.2	6.8	6.6	6.7	6.4	6.0	6.1	8.5	6.5	7.6
27	9.1	8.8	8.9	6.7	6.4	6.5	7.0	6.1	6.5	8.2	6.8	7.2
28	8.8	8.4	8.6	6.5	6.1	6.3	7.2	6.5	6.8	7.2	5.8	6.5
29	8.5	8.2	8.3	6.2	6.0	6.1	7.2	6.5	6.9	6.4	5.4	5.7
30	---	---	---	---	---	---	7.3	6.2	6.9	6.3	5.4	6.0
31	---	---	---	6.0	5.8	5.9	---	---	---	7.1	5.2	6.0
MONTH	11.8	8.2	10.2	---	---	---	7.3	5.6	6.3	8.7	5.2	6.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	6.0	6.2	4.1	1.3	2.1	3.9	3.6	3.8	---	---	---
2	6.5	5.9	6.1	4.5	.5	1.1	---	---	---	---	---	---
3	6.9	6.2	6.5	5.1	.7	2.0	---	---	---	---	---	---
4	6.8	6.2	6.4	6.0	2.4	4.7	4.0	3.7	3.9	---	---	---
5	6.3	5.7	6.0	6.3	2.7	5.0	4.0	3.7	3.8	---	---	---
6	6.5	5.5	5.9	6.3	1.6	3.8	4.3	3.9	4.1	---	---	---
7	8.3	5.8	6.8	5.6	1.0	2.9	4.2	4.0	4.1	5.2	4.3	4.8
8	7.3	6.2	6.7	5.3	.2	2.6	4.3	4.1	4.2	5.1	4.7	4.9
9	6.8	5.5	6.0	6.1	.3	4.5	4.7	4.1	4.4	5.2	4.6	5.0
10	6.2	5.4	5.8	6.4	.4	5.5	4.7	4.0	4.3	5.3	4.3	5.1
11	6.4	5.7	6.1	6.8	4.8	5.7	4.0	3.6	3.8	5.3	5.0	5.2
12	6.8	2.8	6.1	---	---	---	4.1	3.6	3.9	5.1	4.2	4.9
13	2.8	.5	1.0	---	---	---	4.0	.6	3.4	5.1	4.2	4.7
14	4.2	.2	.6	---	---	---	4.1	1.1	3.3	5.0	4.2	4.7
15	7.6	.6	2.7	7.9	4.8	6.4	3.2	.1	.7	5.4	4.6	5.0
16	7.4	1.5	4.1	8.3	5.5	7.0	.3	.0	.1	6.1	5.1	5.5
17	7.3	1.4	3.8	8.1	6.2	7.1	.2	.0	.1	5.9	5.5	5.7
18	7.3	3.1	5.1	8.1	2.9	5.7	---	---	---	6.6	4.5	5.7
19	7.1	1.7	3.7	---	---	---	4.4	.1	1.9	6.6	5.3	5.7
20	5.7	1.3	3.6	8.0	2.8	6.4	3.2	.1	.3	5.9	5.0	5.3
21	4.7	.3	1.2	---	---	---	1.0	.0	.1	5.6	5.0	5.2
22	6.0	.3	1.8	---	---	---	.1	.0	.1	5.7	5.1	5.4
23	6.1	2.9	4.8	---	---	---	.5	.0	.1	6.1	5.2	5.5
24	6.0	2.2	3.5	---	---	---	.1	.0	.0	5.6	4.6	5.0
25	6.0	1.6	3.4	---	---	---	2.4	.0	.7	5.0	4.3	4.7
26	5.4	1.8	3.3	---	---	---	2.2	.1	.6	5.4	4.2	4.9
27	5.8	2.3	4.7	5.6	5.1	5.3	4.6	.0	1.0	5.7	4.3	5.2
28	6.9	3.1	5.0	6.0	4.9	5.5	5.7	2.3	4.5	5.8	5.1	5.5
29	6.2	3.1	5.3	5.6	5.1	5.3	5.9	3.8	4.8	6.2	5.2	5.7
30	5.6	2.0	4.1	5.1	4.3	4.7	6.5	3.8	5.5	5.9	4.9	5.7
31	---	---	---	4.4	3.7	4.1	---	---	---	---	---	---
MONTH	8.3	.2	4.5	---	---	---	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	24	21	22	62	57	60	79	72	75	91	88	90
2	26	24	25	72	60	66	79	74	76	92	86	90
3	27	25	26	71	61	66	79	75	76	96	86	91
4	30	27	29	67	61	64	82	75	79	98	91	95
5	31	30	30	69	56	66	83	78	81	98	86	92
6	34	30	32	69	55	65	86	80	83	95	89	91
7	37	34	35	72	60	67	88	80	85	90	83	87
8	38	35	36	74	63	71	86	82	84	87	82	85
9	36	33	35	74	68	72	87	79	82	88	84	86
10	34	30	32	76	68	72	84	80	81	92	86	89
11	33	30	31	74	65	71	83	80	82	91	86	88
12	41	30	35	74	70	72	85	80	82	92	85	88
13	48	36	42	73	69	71	85	81	83	88	84	86
14	56	44	49	72	67	69	89	81	85	89	82	86
15	57	48	51	72	66	69	87	81	85	88	86	87
16	59	48	53	74	64	69	88	84	86	87	83	85
17	74	54	62	72	68	70	86	80	83	87	82	84
18	71	54	62	68	65	67	87	83	84	86	83	85
19	54	47	50	70	66	68	89	84	87	86	79	84
20	49	46	47	73	67	69	89	82	87	---	---	---
21	49	47	48	73	68	70	86	81	84	---	---	---
22	50	47	49	76	72	74	86	83	84	92	85	89
23	51	49	50	76	73	74	84	82	83	90	87	89
24	54	51	52	78	72	75	84	80	82	92	88	90
25	57	54	55	76	70	73	86	81	84	93	85	89
26	59	56	57	77	71	73	90	82	86	91	88	89
27	60	58	59	77	69	73	91	83	88	90	85	88
28	61	58	60	74	69	71	90	86	88	90	84	88
29	61	59	60	71	65	67	91	83	88	91	85	89
30	61	58	59	77	66	70	91	86	89	93	89	92
31	60	55	57	---	---	---	91	84	89	93	87	90
MONTH	74	21	45	78	55	69	91	72	84	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	91	86	89	88	80	84	78	72	75	78	69	74
2	91	84	88	89	81	84	80	72	76	85	74	78
3	92	86	89	86	82	84	84	73	79	85	80	82
4	91	85	90	86	82	84	82	78	80	85	76	81
5	91	85	90	86	82	84	89	73	80	94	72	79
6	90	84	89	90	82	85	85	76	79	88	67	76
7	90	86	88	91	82	85	83	76	79	88	71	78
8	90	88	89	92	79	86	84	76	79	94	71	78
9	89	86	88	91	85	87	---	---	---	96	71	79
10	89	86	87	90	84	87	91	77	85	89	73	81
11	86	84	85	89	84	87	81	75	78	102	70	81
12	86	84	86	88	80	84	82	74	78	106	62	88
13	85	83	84	92	84	87	81	75	78	114	68	94
14	85	82	84	88	81	84	80	74	76	107	83	96
15	86	81	84	88	81	84	80	73	76	106	77	94
16	87	84	86	89	80	84	74	70	72	112	82	99
17	88	84	86	89	75	83	75	64	71	96	79	88
18	86	83	85	83	76	79	71	63	68	107	83	92
19	88	85	86	79	72	76	73	62	70	115	82	96
20	86	84	85	83	73	79	74	67	71	111	90	99
21	88	82	85	84	76	82	73	61	70	98	85	91
22	87	84	86	85	82	84	73	64	69	92	75	84
23	89	84	87	85	81	83	74	68	72	98	76	84
24	90	84	87	84	76	80	72	69	71	125	71	90
25	92	86	89	84	76	81	72	64	69	108	86	97
26	91	86	89	86	81	83	71	65	67	143	81	106
27	90	86	88	84	79	81	72	65	67	106	89	97
28	89	85	88	84	76	80	70	64	67	97	72	84
29	87	82	85	79	74	77	71	65	68	82	66	70
30	---	---	---	---	---	---	74	68	71	73	65	69
31	---	---	---	77	71	74	---	---	---	86	61	70
MONTH	92	81	87	---	---	---	---	---	---	143	61	86

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	85	67	71	105	64	79	52	46	49	---	---	---
2	83	64	70	119	71	86	---	---	---	---	---	---
3	83	67	74	---	---	---	---	---	---	---	---	---
4	77	70	74	---	---	---	50	46	47	---	---	---
5	72	66	69	---	---	---	52	44	47	---	---	---
6	76	63	69	96	70	79	53	47	50	---	---	---
7	87	68	76	92	73	80	54	45	50	59	53	56
8	89	70	77	92	71	79	55	48	52	58	54	56
9	97	63	76	88	67	76	64	52	57	58	52	56
10	102	64	79	109	70	86	62	54	58	60	53	58
11	118	68	89	114	83	95	55	50	52	58	51	56
12	127	67	93	---	---	---	56	49	52	58	52	55
13	140	82	106	---	---	---	55	48	50	57	49	54
14	130	80	106	---	---	---	61	49	54	70	53	58
15	114	82	97	134	102	114	61	51	54	66	53	60
16	118	91	102	139	101	114	66	53	60	74	62	67
17	112	90	97	142	96	111	---	---	---	76	64	69
18	112	86	97	153	103	122	---	---	---	83	65	71
19	115	84	95	---	---	---	77	57	65	78	63	68
20	93	71	79	122	90	104	---	---	---	72	61	67
21	117	73	90	104	86	94	74	48	58	72	64	67
22	105	79	90	---	---	---	81	52	60	73	64	68
23	113	71	85	---	---	---	---	---	---	75	66	70
24	109	69	89	---	---	---	71	50	61	70	60	65
25	117	77	95	---	---	---	74	21	55	70	58	63
26	112	76	92	---	---	---	77	32	52	71	56	64
27	113	72	93	75	64	69	98	52	73	69	55	62
28	98	73	87	86	66	72	76	63	69	68	55	63
29	73	62	68	73	63	68	95	60	70	72	65	68
30	97	58	72	63	54	59	88	61	72	70	63	67
31	---	---	---	55	48	52	---	---	---	---	---	---
MONTH	140	58	85	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	22	23	56	44	51	83	72	77	88	86	88
2	27	24	26	70	48	60	80	76	77	90	85	87
3	28	26	27	67	53	59	82	76	78	92	87	89
4	30	28	29	61	49	57	83	79	81	94	89	91
5	32	29	30	64	51	60	85	80	82	94	86	90
6	34	30	32	69	58	62	86	83	84	90	84	87
7	37	33	34	70	58	65	89	78	85	86	81	83
8	38	35	36	70	58	65	87	84	85	81	78	80
9	36	33	35	72	62	66	85	79	83	82	80	81
10	34	31	33	74	62	66	85	80	82	86	81	83
11	34	27	31	73	59	66	84	82	84	85	80	83
12	41	28	33	73	62	67	85	82	83	89	78	81
13	44	35	39	---	---	---	87	82	85	84	77	80
14	55	39	46	---	---	---	89	85	87	81	76	79
15	58	45	48	---	---	---	88	84	86	81	79	80
16	58	51	54	---	---	---	87	83	86	80	78	79
17	72	53	60	---	---	---	85	81	83	80	77	78
18	73	55	64	70	68	69	87	83	85	80	77	78
19	55	46	49	72	68	69	90	86	88	80	77	79
20	47	43	45	74	70	72	90	85	87	82	79	80
21	49	44	46	76	71	73	87	82	85	86	81	83
22	50	41	45	78	73	76	87	84	86	84	81	82
23	49	41	47	78	75	76	85	82	84	85	82	83
24	50	46	48	79	74	76	84	78	82	86	82	83
25	53	48	51	77	73	75	86	80	83	86	83	84
26	55	51	52	79	71	75	87	81	85	84	82	83
27	60	50	55	79	71	75	88	82	86	86	82	84
28	61	54	58	74	66	72	89	85	87	86	83	85
29	61	56	58	73	67	69	89	85	87	87	84	85
30	61	54	57	80	67	71	89	85	87	88	86	87
31	58	47	53	---	---	---	89	86	88	88	85	87
MONTH	73	22	43	---	---	---	90	72	84	94	76	83

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	87	85	86	81	76	78	61	58	59	76	68	72
2	86	84	85	82	77	79	62	59	60	83	71	74
3	87	84	86	80	48	77	66	60	62	72	66	70
4	89	85	87	79	41	66	65	62	63	71	64	68
5	89	87	87	78	31	64	70	60	64	70	65	68
6	89	86	87	37	24	29	66	62	64	72	65	68
7	89	86	87	81	24	42	65	61	63	73	67	69
8	90	86	87	83	52	75	69	60	64	77	68	70
9	88	86	87	86	68	81	74	63	67	81	70	74
10	89	84	86	85	79	82	72	66	69	80	72	76
11	86	84	85	87	81	84	70	64	65	87	72	80
12	85	83	84	84	79	82	69	62	64	93	79	85
13	84	82	82	86	81	82	69	65	67	88	78	82
14	83	82	82	82	72	77	67	62	64	102	79	92
15	83	81	82	77	73	75	68	63	65	105	77	92
16	84	82	83	80	73	76	67	62	65	103	80	92
17	85	82	84	80	74	77	66	61	63	97	78	84
18	83	81	82	75	67	70	65	61	63	103	81	86
19	84	81	82	71	62	66	66	58	61	95	82	88
20	83	81	82	76	68	72	64	58	60	100	82	90
21	84	80	81	76	69	74	64	60	62	98	83	89
22	83	80	82	77	68	73	65	57	62	90	73	81
23	85	81	83	70	64	67	66	60	64	88	75	80
24	86	83	84	64	60	62	66	63	65	90	69	78
25	86	83	85	65	62	64	67	61	64	107	82	90
26	86	83	84	66	62	65	66	60	63	107	82	96
27	85	82	83	65	62	64	71	62	67	104	84	91
28	85	82	82	65	59	62	72	66	69	90	72	80
29	82	78	79	62	59	61	72	65	69	80	64	68
30	---	---	---	---	---	---	75	62	70	71	63	68
31	---	---	---	60	56	58	---	---	---	80	58	68
MONTH	90	78	84	---	---	---	75	57	64	107	58	80

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	73	67	70	53	17	28	47	44	46	---	---	---
2	75	66	69	59	6	15	---	---	---	---	---	---
3	82	71	76	66	10	26	---	---	---	---	---	---
4	80	72	75	76	32	60	49	46	47	---	---	---
5	73	66	70	80	34	64	50	45	47	---	---	---
6	76	64	69	80	21	49	54	49	51	---	---	---
7	97	67	79	71	12	37	52	49	51	60	49	55
8	86	74	78	67	2	34	54	50	53	59	54	56
9	82	65	70	78	3	57	60	52	56	60	53	58
10	74	64	69	83	4	69	59	50	54	61	50	59
11	78	69	73	86	62	72	50	46	48	61	58	60
12	83	34	74	---	---	---	51	45	48	60	49	56
13	34	6	13	---	---	---	50	8	43	61	50	55
14	53	3	8	---	---	---	50	15	40	61	50	56
15	98	8	35	102	63	83	40	2	9	66	56	61
16	95	20	53	109	73	90	4	0	2	73	62	66
17	96	18	49	107	81	93	2	1	1	71	65	67
18	96	40	67	106	38	75	---	---	---	78	53	68
19	93	24	49	---	---	---	55	1	24	78	62	67
20	76	19	49	105	37	83	42	1	4	70	58	62
21	62	5	18	---	---	---	13	1	2	66	58	62
22	79	4	23	---	---	---	1	0	1	69	61	64
23	80	37	62	---	---	---	7	0	1	72	61	65
24	78	28	46	---	---	---	1	0	1	66	55	60
25	78	21	45	---	---	---	30	0	9	60	51	56
26	70	24	43	---	---	---	29	1	8	63	50	57
27	76	30	61	69	62	65	58	0	13	65	49	59
28	91	40	65	76	61	67	72	29	56	65	58	62
29	80	42	69	69	61	64	74	47	60	69	57	63
30	72	27	53	61	52	56	82	49	69	65	54	62
31	---	---	---	52	45	49	---	---	---	---	---	---
MONTH	98	3	56	---	---	---	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5

LOCATION.--Lat 35°28'48", long 76°50'30", Beaufort County, Hydrologic Unit 03020104, on U.S. Coast Guard Channel Light 5.

PERIOD OF RECORD.--Water years 1989 to 1992, 1999 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.

pH (TOP AND BOTTOM): May 1999 to current year.

WATER TEMPERATURE (TOP): May 1989 to September 1992, May 1999 to current year.

WATER TEMPERATURE (BOTTOM): May 1999 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM) : May 1989 to September 1992, May 1999 to current year.

DISSOLVED OXYGEN (MID): May 1989 to September 1992.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (MID): May 1989 to September 1992.

INSTRUMENTATION.--Water-quality monitor from May 1989 to September 1992. Constituents monitored were: specific conductance, top and bottom, water temperature top, dissolved oxygen, top, mid-depth and bottom. Water-quality monitor with satellite telemetry from May 1999 to current year. Constituents monitored were the same as previous water years except, mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed on August 29, 1999 to prevent possible destruction of the equipment during Hurricane Dennis. It was reinstalled on September 9, 1999. The monitor was removed again on September 14, 1999 to prevent possible destruction during Hurricane Floyd. It was reinstalled on October 21, 1999. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	13.6, December 6, 1991	<0.1, on several days during the period
SALINITY (BOTTOM), ppt	17.1, August 14, 2000	<0.1 April 12, 1990, October 22-26, 1999
pH (TOP), standard units	9.0, July 16, August 28, 1999, November 24, 25, 1999, May 6, 2000	6.2, October 22, 23, 24, 1999
pH (BOTTOM), standard units	8.8, April 1, 2000	5.9, October 23, 1999
WATER TEMPERATURE (TOP), °C	33.1, July 31, 1999	0.0, December 3, 1989
WATER TEMPERATURE (BOTTOM), °C	30.5, July 24, 1999	1.7, January 28, 2000
DISSOLVED OXYGEN (TOP), mg/L	18.5, February 5, 1991	<1.0, August 6, 10, 11, 2000
DISSOLVED OXYGEN (BOTTOM), mg/L	18.6, January 5, 1992	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	13.1, August 10, 15	<1.0, on several days during the year
SALINITY (BOTTOM), ppt	17.1, August 14	<0.1, October 22-26
pH (TOP), standard units	9.0, November 24, 25, May 6	6.2, October 22, 23, 24
pH (BOTTOM), standard units	8.8, April 1	5.9, October 23
WATER TEMPERATURE (TOP), °C	30.2, August 9	0.8, January 29
WATER TEMPERATURE (BOTTOM), °C	29.0, June 28	1.7, January 28
DISSOLVED OXYGEN (TOP), mg/L	16.1, January 1	<1.0, August 6, 10, 11
DISSOLVED OXYGEN (BOTTOM), mg/L	12.9, January 30, 31	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	162, August 26	<10, August 11
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	117, May 4	<10, on many days during the year

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	---	---	---	.1	.0	.1	1.4	.6	.9	2.2	1.9	2.0
2	---	---	---	.8	.1	.3	1.7	1.0	1.3	2.5	1.5	1.9
3	---	---	---	.8	.1	.2	1.9	.8	1.5	2.5	1.2	1.6
4	---	---	---	.5	.2	.3	1.8	1.3	1.6	6.4	1.6	3.8
5	---	---	---	.4	.2	.3	2.5	1.1	1.4	6.3	2.3	3.2
6	---	---	---	.3	.2	.3	2.8	1.4	1.9	4.8	3.5	4.0
7	---	---	---	.3	.1	.2	2.8	1.7	2.2	4.2	3.7	3.9
8	---	---	---	.5	.2	.3	2.8	1.8	2.3	4.1	3.2	3.6
9	---	---	---	.4	.2	.3	3.7	1.4	2.3	3.5	3.0	3.3
10	---	---	---	.9	.3	.6	4.6	2.5	3.7	5.2	3.2	4.1
11	---	---	---	.9	.4	.6	4.4	2.8	3.3	5.0	2.8	3.9
12	---	---	---	1.0	.4	.7	3.9	2.6	3.0	4.0	2.9	3.4
13	---	---	---	.8	.4	.6	3.9	3.0	3.4	4.0	2.8	3.6
14	---	---	---	.7	.3	.4	4.1	3.3	3.7	3.7	2.9	3.2
15	---	---	---	1.1	.4	.7	3.9	3.1	3.5	3.9	2.4	2.8
16	---	---	---	1.4	.7	1.1	4.4	3.0	3.5	3.9	2.2	2.8
17	---	---	---	1.5	1.0	1.3	3.9	3.4	3.6	3.3	2.5	2.9
18	---	---	---	2.0	1.1	1.5	3.5	3.3	3.4	2.8	1.4	2.0
19	---	---	---	2.0	1.0	1.5	3.8	3.4	3.6	3.5	1.3	1.7
20	---	---	---	2.0	1.8	1.9	3.8	2.6	3.3	---	---	---
21	---	---	---	2.0	1.8	1.9	3.6	2.5	2.8	3.0	.5	1.8
22	.1	.0	.0	2.1	1.8	2.0	3.0	2.1	2.5	3.7	1.5	2.7
23	.1	.0	.0	2.2	1.8	2.0	2.5	1.8	2.2	3.4	2.7	3.0
24	.0	.0	.0	2.1	1.6	2.0	2.8	1.8	2.2	5.3	2.8	3.4
25	.0	.0	.0	2.0	1.4	1.8	3.4	1.8	2.3	5.0	1.1	2.4
26	.0	.0	.0	2.1	1.4	1.9	3.4	1.9	2.8	3.1	1.6	2.3
27	.1	.0	.1	1.8	1.4	1.7	2.9	2.0	2.6	1.9	1.4	1.7
28	.1	.0	.1	1.8	1.4	1.6	2.9	1.9	2.4	1.8	1.2	1.6
29	.1	.0	.1	2.2	1.1	1.4	2.7	2.2	2.5	1.2	.8	1.0
30	.1	.0	.1	2.0	.9	1.2	2.8	2.4	2.6	2.7	.8	1.3
31	.2	.0	.1	---	---	---	2.4	2.0	2.2	1.8	.9	1.2
MONTH	---	---	---	2.2	.0	1.0	4.6	.6	2.6	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	.9	1.2	1.4	.6	.8	3.6	2.6	3.2	---	---	---
2	1.7	1.1	1.4	2.2	1.2	1.4	3.2	2.5	2.9	---	---	---
3	1.6	1.2	1.4	2.2	1.6	1.8	3.2	2.2	3.0	---	---	---
4	1.5	.7	.9	2.9	1.8	2.3	3.1	2.3	2.8	1.6	1.1	1.4
5	1.3	.6	.9	2.9	2.7	2.8	2.5	1.2	1.6	1.3	.4	.8
6	1.8	1.0	1.5	2.8	2.6	2.7	3.5	2.0	2.8	.8	.5	.6
7	1.6	.9	1.3	3.5	2.5	2.9	3.2	1.9	2.8	.9	.5	.7
8	1.4	.6	.9	3.4	2.7	3.1	3.1	2.2	2.8	1.3	.7	1.0
9	.8	.5	.7	3.5	2.9	3.2	---	---	---	2.0	1.2	1.6
10	.6	.3	.5	3.7	2.8	3.3	3.2	2.4	2.8	2.4	1.8	2.1
11	.6	.3	.5	4.3	3.0	3.4	3.1	2.4	2.8	2.6	1.8	2.3
12	---	---	---	4.7	3.4	4.0	2.9	2.1	2.7	3.3	2.4	2.6
13	1.4	.8	1.0	5.9	4.2	5.3	3.5	2.7	3.0	2.8	2.4	2.6
14	1.8	.6	1.2	5.8	5.1	5.5	2.8	2.5	2.6	3.2	2.2	2.8
15	1.9	.7	1.1	5.5	5.3	5.4	2.7	2.2	2.5	3.6	2.8	3.1
16	2.3	1.3	1.6	5.5	5.2	5.3	2.9	1.7	2.1	4.1	3.1	3.5
17	3.0	1.6	2.4	5.5	4.5	5.0	---	---	---	3.6	3.4	3.5
18	3.1	1.5	2.1	5.5	4.4	5.2	---	---	---	3.9	3.4	3.7
19	1.8	1.3	1.6	5.3	4.3	5.0	---	---	---	4.3	3.6	3.7
20	2.0	1.5	1.8	5.3	3.4	4.9	---	---	---	3.9	3.2	3.6
21	---	---	---	4.7	3.3	4.0	---	---	---	4.7	3.3	3.8
22	2.3	1.2	1.6	3.5	2.0	2.6	---	---	---	4.4	3.6	4.1
23	1.4	1.1	1.2	5.2	2.9	4.2	---	---	---	4.5	4.0	4.3
24	1.2	.8	1.1	5.1	1.6	3.1	---	---	---	4.1	3.9	4.0
25	.9	.4	.7	4.0	1.1	2.1	---	---	---	4.8	3.4	3.8
26	2.3	.3	.6	2.0	1.6	1.8	---	---	---	4.8	3.5	3.9
27	2.2	.6	1.3	4.1	1.8	2.6	---	---	---	4.3	3.4	3.7
28	1.6	.8	1.0	3.7	2.3	3.0	---	---	---	4.7	3.7	4.1
29	1.1	.6	.8	3.5	2.8	3.0	---	---	---	4.3	3.5	3.8
30	---	---	---	---	---	---	---	---	---	5.2	3.6	4.3
31	---	---	---	3.5	2.9	3.2	---	---	---	5.3	3.5	4.3
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	5.2	3.0	3.6	9.2	8.7	9.0	4.9	3.2	4.1	9.1	7.9	8.6
2	5.0	2.3	3.3	9.2	8.5	8.9	7.2	3.1	4.1	9.3	7.0	7.9
3	7.3	2.4	3.5	9.0	8.1	8.4	4.4	1.8	3.0	8.3	5.6	7.3
4	4.7	3.9	4.4	8.5	7.8	8.2	5.9	.9	2.0	8.0	4.0	5.8
5	4.3	3.9	4.1	8.3	7.3	7.9	7.4	1.7	2.9	9.3	3.6	5.7
6	4.8	3.9	4.3	8.9	7.6	8.0	7.8	1.9	5.2	8.6	6.0	7.5
7	5.6	3.8	4.6	8.7	8.0	8.4	7.9	2.3	4.7	7.0	5.0	5.6
8	5.9	4.0	4.7	9.4	7.8	8.2	10.2	3.2	5.6	5.3	3.4	4.2
9	7.0	3.4	4.3	8.9	7.4	8.0	11.0	3.9	5.6	3.7	2.3	2.6
10	4.4	3.2	3.5	8.3	7.4	7.7	13.1	4.2	5.9	4.2	1.5	2.2
11	6.7	3.2	4.2	7.8	6.9	7.2	10.1	4.2	7.1	5.1	2.1	2.5
12	7.0	3.7	4.6	9.3	7.1	7.8	10.1	3.7	5.2	2.7	1.0	1.7
13	9.2	4.9	6.1	8.9	7.7	8.2	12.2	3.9	7.5	2.3	1.2	1.5
14	11.8	5.0	6.3	8.8	7.3	8.0	12.5	9.5	10.7	3.8	.9	2.2
15	10.2	5.8	7.1	---	---	---	13.1	8.4	10.7	2.0	.8	1.3
16	8.3	5.9	6.5	8.1	7.1	7.5	12.6	8.8	9.7	4.0	1.0	2.0
17	8.8	6.4	7.1	8.7	7.1	7.8	11.7	9.4	10.2	6.7	2.4	4.1
18	8.6	7.7	8.0	9.2	7.0	7.6	11.7	9.8	10.5	6.7	2.9	4.5
19	8.6	8.2	8.4	9.3	5.4	7.2	11.5	10.0	10.8	5.7	4.1	4.9
20	10.2	8.2	8.7	8.2	5.4	7.2	11.3	10.5	11.0	5.6	4.2	4.7
21	9.3	8.5	8.9	9.0	1.0	7.3	11.7	11.0	11.3	4.9	4.3	4.5
22	9.3	8.8	9.1	8.5	7.7	8.1	11.5	11.1	11.4	6.3	3.9	4.7
23	9.6	9.0	9.3	9.7	8.0	8.6	11.5	10.6	11.0	6.0	4.6	5.0
24	9.5	9.2	9.3	8.7	7.6	8.1	10.6	8.5	9.7	5.5	4.1	4.8
25	9.3	9.1	9.2	9.1	8.0	8.6	10.9	8.4	9.2	7.3	3.4	4.7
26	9.3	9.1	9.2	9.0	7.5	8.0	11.1	8.4	9.6	6.1	4.1	4.7
27	9.3	9.1	9.2	8.4	5.3	7.3	11.6	9.0	10.1	5.5	3.7	4.4
28	9.3	8.9	9.1	8.6	6.0	7.3	10.0	9.0	9.5	5.3	3.3	4.2
29	9.3	8.8	9.1	8.2	5.5	7.0	11.0	9.2	10.0	7.1	3.3	5.0
30	9.3	8.0	8.9	8.4	4.8	6.4	10.6	9.3	10.3	6.1	3.6	4.9
31	---	---	---	8.1	4.4	5.7	---	---	---	---	---	---
MONTH	11.8	2.3	6.6	---	---	---	---	---	---	9.3	.8	4.5

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	---	---	---	4.5	3.8	4.2	2.5	.7	1.7	6.7	6.4	6.6
2	---	---	---	4.5	.4	2.9	3.0	1.5	2.5	6.8	6.6	6.7
3	---	---	---	1.2	.1	.3	3.4	2.8	3.1	7.2	6.7	6.9
4	---	---	---	.7	.3	.5	4.1	2.5	3.5	7.2	5.3	6.8
5	---	---	---	1.3	.2	.8	5.0	4.1	4.5	6.7	2.8	4.6
6	---	---	---	1.3	.3	.6	4.9	1.7	4.3	6.0	3.9	5.0
7	---	---	---	.7	.2	.3	6.3	1.7	4.1	6.1	3.9	5.4
8	---	---	---	1.4	.2	.8	6.2	4.8	5.7	5.9	5.2	5.8
9	---	---	---	1.8	.3	1.2	7.0	5.1	6.0	5.9	5.8	5.8
10	---	---	---	2.2	.5	1.4	7.0	3.9	5.8	6.0	4.7	5.6
11	---	---	---	3.3	.4	1.7	6.8	3.7	6.0	5.3	3.7	4.6
12	---	---	---	4.2	.4	1.9	6.8	6.2	6.7	4.7	3.5	4.3
13	---	---	---	4.1	1.0	3.7	6.7	4.5	6.1	4.7	2.8	3.9
14	---	---	---	4.1	3.3	4.0	6.2	4.0	5.1	4.7	2.9	3.5
15	---	---	---	4.9	.4	2.6	6.2	3.4	5.5	4.7	3.9	4.5
16	---	---	---	5.5	.8	2.1	6.1	3.2	4.3	4.7	2.7	3.9
17	---	---	---	6.5	2.3	4.1	3.9	3.0	3.7	3.8	2.5	3.0
18	---	---	---	6.3	3.2	5.0	4.8	3.2	4.1	4.0	3.1	3.8
19	---	---	---	6.1	2.7	5.1	4.8	3.4	3.7	4.9	2.2	3.9
20	---	---	---	4.9	2.3	3.9	4.6	3.1	3.7	4.9	1.7	3.5
21	---	---	---	4.9	1.9	3.4	4.9	2.8	4.2	4.3	1.9	3.3
22	.1	.0	.0	4.3	1.9	2.9	4.9	2.3	3.8	5.2	3.5	4.7
23	.1	.0	.0	4.3	1.9	2.6	5.2	3.0	4.5	5.1	3.0	4.3
24	.0	.0	.0	4.5	1.9	3.4	4.9	2.2	4.1	5.5	2.9	3.9
25	1.7	.0	.1	4.5	1.8	3.5	4.0	2.1	2.9	5.0	1.2	2.8
26	4.1	.0	1.1	4.2	1.8	2.9	4.7	2.9	3.7	4.3	2.1	3.1
27	5.0	.2	3.0	3.0	1.5	1.9	4.9	2.5	3.0	5.3	1.7	3.1
28	4.8	.1	3.7	3.7	1.4	2.3	4.6	2.4	3.8	5.1	1.9	3.9
29	4.7	4.0	4.5	2.9	1.8	2.4	4.7	2.4	3.4	6.1	4.7	5.4
30	4.5	3.7	4.4	2.9	.9	1.5	4.5	2.8	3.7	5.8	1.2	4.5
31	4.3	1.1	4.0	---	---	---	6.5	4.5	5.5	6.1	1.0	3.6
MONTH	---	---	---	6.5	.1	2.5	7.0	.7	4.3	7.2	1.0	4.5

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	6.9	1.2	4.8	6.7	5.6	6.6	3.5	2.8	3.2	---	---	---
2	6.4	1.2	3.0	7.5	5.4	6.6	3.6	2.7	3.2	---	---	---
3	7.4	1.8	6.0	8.6	7.3	7.9	3.3	2.4	3.0	---	---	---
4	7.4	1.9	6.9	8.6	5.6	8.0	3.0	2.4	2.8	3.4	1.4	2.2
5	7.9	3.1	6.9	8.7	7.4	7.8	4.1	1.2	2.3	3.2	.9	1.9
6	7.9	2.2	7.3	9.3	8.4	8.9	4.5	2.9	3.8	3.6	1.2	2.7
7	8.3	6.4	7.4	9.2	7.2	8.3	3.1	2.7	3.0	4.7	1.4	3.6
8	8.1	4.9	7.4	8.6	7.2	7.9	2.9	2.3	2.7	6.6	1.6	4.7
9	8.2	6.9	7.3	8.8	7.8	8.5	4.1	.7	2.0	7.0	3.3	5.9
10	8.6	7.4	8.4	9.3	5.5	8.6	4.3	3.0	3.7	7.6	5.8	6.7
11	8.5	7.5	8.1	9.2	8.6	9.0	3.8	2.6	3.3	7.9	2.5	6.5
12	---	---	---	8.8	4.2	6.1	3.4	2.5	2.9	8.3	4.1	6.8
13	8.3	7.6	8.0	6.5	4.3	5.9	3.5	2.8	3.0	9.2	7.3	8.5
14	7.9	3.2	7.4	6.1	5.4	5.7	2.8	2.5	2.6	9.2	2.6	8.5
15	8.3	7.2	8.0	5.6	5.4	5.4	2.8	2.3	2.6	8.4	3.1	6.8
16	7.9	6.8	7.7	5.6	5.2	5.4	4.0	2.1	3.0	7.8	3.7	5.5
17	8.0	2.8	7.0	5.5	4.7	5.1	---	---	---	5.7	3.5	4.3
18	7.7	1.9	6.1	5.5	4.7	5.3	---	---	---	6.1	3.5	4.6
19	7.5	1.6	5.7	5.3	4.8	5.1	---	---	---	5.1	3.6	4.1
20	7.5	4.6	7.1	5.3	4.0	5.0	---	---	---	4.9	3.7	4.2
21	---	---	---	5.0	3.5	4.1	---	---	---	5.1	3.5	4.5
22	7.2	5.4	7.1	5.2	2.6	4.1	---	---	---	4.5	4.0	4.3
23	7.1	3.7	6.6	5.4	4.5	5.2	---	---	---	4.5	4.0	4.3
24	7.1	3.3	6.5	5.3	4.6	5.1	---	---	---	4.3	3.9	4.1
25	6.9	3.7	6.3	5.2	4.6	5.0	---	---	---	5.2	3.5	4.1
26	7.0	4.4	6.7	5.5	3.0	5.0	---	---	---	5.4	3.7	4.6
27	6.7	3.1	5.4	5.6	3.9	5.1	---	---	---	5.5	3.9	4.9
28	6.6	1.0	4.6	4.8	2.8	3.5	---	---	---	4.9	3.8	4.2
29	6.7	6.0	6.5	3.8	2.7	3.0	---	---	---	4.3	3.5	3.8
30	---	---	---	---	---	---	---	---	---	5.6	3.6	4.9
31	---	---	---	3.4	2.9	3.3	---	---	---	5.3	4.0	4.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.6	4.1	5.1	9.3	8.8	9.0	11.1	9.7	10.3	9.6	8.3	9.0
2	6.7	5.1	6.1	9.3	8.8	9.1	11.0	7.7	10.6	9.7	8.3	9.0
3	7.4	5.1	6.7	9.4	8.4	8.9	11.0	8.5	10.1	9.5	8.2	9.3
4	6.5	4.4	5.8	9.2	8.2	8.8	12.2	10.3	11.5	10.4	9.0	9.7
5	8.0	4.5	6.8	9.2	7.7	8.6	13.2	10.9	12.2	10.4	7.4	9.5
6	9.4	3.7	6.6	9.3	8.4	9.0	13.3	12.3	13.0	9.2	6.9	8.0
7	11.4	9.2	10.6	9.8	8.0	8.8	13.6	11.6	12.8	7.9	5.1	6.9
8	11.3	9.1	11.0	9.8	8.2	8.9	13.9	13.1	13.6	8.3	4.3	6.8
9	11.8	10.0	11.1	9.8	8.2	9.1	14.4	13.4	13.9	8.3	6.7	7.9
10	11.7	11.1	11.5	8.4	7.4	7.9	14.7	12.2	14.2	8.1	6.4	7.6
11	12.2	10.6	11.5	9.8	7.4	8.1	15.5	14.0	15.0	7.3	6.0	6.9
12	13.0	11.5	12.3	9.9	7.4	8.7	16.3	14.9	15.7	7.2	3.2	6.5
13	13.0	12.8	12.9	8.9	7.9	8.4	16.7	13.3	16.0	7.4	5.9	6.9
14	13.0	12.3	12.8	---	---	---	17.1	9.7	14.6	7.5	4.9	7.1
15	12.8	11.5	12.6	---	---	---	16.3	14.1	15.8	7.5	6.1	6.6
16	12.6	11.8	12.4	9.0	7.8	8.6	15.8	12.6	15.0	14.1	4.9	9.8
17	12.6	11.7	12.3	9.6	7.6	8.7	15.6	13.6	15.1	15.0	13.5	14.5
18	12.6	11.8	12.4	10.4	8.6	9.6	14.4	10.2	13.3	14.6	7.5	12.6
19	12.8	12.4	12.6	10.5	9.0	10.2	14.5	10.4	13.5	12.0	4.4	7.0
20	12.8	10.7	12.0	10.8	7.0	9.4	14.1	11.0	12.9	12.0	5.3	9.8
21	12.0	9.0	11.3	10.7	7.1	10.4	14.2	11.0	11.8	11.8	5.6	9.7
22	11.2	9.0	10.0	---	---	---	14.1	11.3	11.8	10.0	6.9	9.5
23	11.1	9.1	10.0	10.6	8.1	9.4	12.3	10.8	11.3	9.5	4.6	8.1
24	10.9	9.2	9.9	9.8	7.6	8.5	13.0	9.4	11.4	9.2	4.5	7.6
25	10.5	9.2	9.8	9.0	8.0	8.7	12.5	10.4	12.0	9.8	5.5	8.5
26	10.2	9.1	9.7	9.0	7.7	8.4	12.4	11.8	12.2	10.8	4.3	8.0
27	9.8	9.2	9.4	10.0	7.3	8.7	12.3	9.5	11.5	11.6	10.5	11.3
28	9.6	9.0	9.4	10.2	8.7	9.5	11.8	9.3	11.1	11.5	10.5	11.3
29	9.4	9.0	9.2	9.3	8.3	8.9	11.7	9.3	10.8	11.4	5.7	9.2
30	9.3	8.5	9.0	9.8	8.2	9.3	10.6	9.6	10.3	11.0	4.9	7.9
31	---	---	---	10.0	8.2	9.4	---	---	---	---	---	---
MONTH	13.0	3.7	10.1	---	---	---	---	---	---	15.0	3.2	8.8

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	---	---	---	6.5	6.4	6.5	7.5	7.4	7.4	---	---	---
2	---	---	---	6.7	6.4	6.6	7.8	7.4	7.5	---	---	---
3	---	---	---	6.9	6.6	6.8	8.1	7.5	7.7	---	---	---
4	---	---	---	6.9	6.9	6.9	7.9	7.7	7.8	---	---	---
5	---	---	---	6.9	6.8	6.9	8.2	7.6	7.8	---	---	---
6	---	---	---	6.9	6.9	6.9	8.3	7.6	8.0	---	---	---
7	---	---	---	7.0	6.9	6.9	7.8	7.3	7.6	---	---	---
8	---	---	---	7.1	6.9	7.0	8.6	7.5	7.8	---	---	---
9	---	---	---	7.0	6.9	7.0	8.6	7.5	8.2	---	---	---
10	---	---	---	7.0	6.9	7.0	8.3	7.3	7.7	---	---	---
11	---	---	---	7.2	6.9	7.0	7.9	7.4	7.7	---	---	---
12	---	---	---	7.2	7.1	7.2	8.5	7.6	7.9	---	---	---
13	---	---	---	7.2	7.1	7.2	8.4	7.8	8.0	7.8	7.3	7.5
14	---	---	---	7.3	7.1	7.2	8.2	7.5	7.8	7.8	7.4	7.6
15	---	---	---	7.4	7.1	7.2	8.2	7.4	7.8	8.4	7.5	7.8
16	---	---	---	7.3	7.2	7.2	8.1	7.4	7.7	7.9	7.7	7.8
17	---	---	---	7.3	7.2	7.2	8.6	7.4	7.8	7.9	7.7	7.8
18	---	---	---	7.4	7.2	7.3	8.4	7.6	7.9	7.9	7.5	7.6
19	---	---	---	7.6	7.3	7.4	8.1	7.5	7.7	7.9	7.5	7.6
20	---	---	---	7.6	7.3	7.4	8.1	7.3	7.5	---	---	---
21	---	---	---	8.2	7.4	7.6	7.7	7.2	7.5	7.4	7.2	7.3
22	6.6	6.2	6.4	8.6	7.4	7.7	7.5	7.1	7.3	7.6	7.3	7.4
23	6.6	6.2	6.4	8.8	7.5	7.9	7.5	7.1	7.2	7.6	7.4	7.5
24	6.5	6.2	6.3	9.0	7.6	8.0	7.5	7.1	7.3	7.5	7.4	7.5
25	6.6	6.3	6.4	9.0	7.4	7.9	7.6	7.2	7.3	7.5	7.3	7.4
26	6.5	6.3	6.4	7.8	7.1	7.4	7.7	7.2	7.4	7.4	7.3	7.4
27	6.5	6.3	6.4	7.4	7.1	7.2	7.6	7.3	7.4	7.3	7.3	7.3
28	6.4	6.3	6.4	7.4	7.1	7.3	7.5	7.2	7.4	7.3	7.3	7.3
29	6.5	6.3	6.4	7.7	7.3	7.4	---	---	---	7.3	7.2	7.3
30	6.5	6.3	6.4	7.4	7.3	7.4	---	---	---	7.3	7.2	7.3
31	6.6	6.3	6.4	---	---	---	---	---	---	7.3	7.1	7.2
MONTH	---	---	---	9.0	6.4	7.2	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	7.0	7.1	8.4	7.5	7.9	8.6	7.9	8.4	---	---	---
2	7.2	7.0	7.1	8.3	7.7	7.9	8.5	8.1	8.3	---	---	---
3	7.1	7.0	7.1	8.4	7.6	7.9	8.3	7.9	8.1	---	---	---
4	7.1	7.0	7.0	8.5	7.6	8.0	8.0	7.8	7.9	8.6	8.4	8.5
5	7.0	6.8	6.9	8.5	7.9	8.2	7.8	7.3	7.4	8.9	8.2	8.6
6	7.2	6.9	7.0	8.8	8.0	8.5	8.1	7.3	7.6	9.0	7.9	8.6
7	7.0	6.7	6.8	8.7	8.1	8.5	8.6	7.7	8.0	8.9	8.3	8.6
8	6.9	6.7	6.8	8.7	7.7	8.2	8.6	7.8	8.1	8.8	8.0	8.5
9	6.8	6.7	6.7	8.4	7.9	8.2	---	---	---	8.6	7.2	8.0
10	6.7	6.6	6.7	8.5	7.6	8.1	8.3	7.4	7.8	8.4	7.9	8.1
11	6.9	6.7	6.8	8.2	7.7	8.0	8.1	7.4	7.8	8.4	7.7	8.0
12	---	---	---	7.8	7.3	7.5	8.4	7.5	7.8	8.4	7.6	8.2
13	7.1	7.0	7.1	7.9	7.3	7.5	7.7	7.4	7.4	8.3	7.9	8.1
14	7.2	7.1	7.1	8.4	7.4	7.8	7.7	7.3	7.5	8.2	7.5	7.8
15	7.2	7.0	7.1	8.3	7.5	7.8	7.7	7.4	7.5	7.8	7.3	7.5
16	7.2	7.1	7.1	8.2	7.6	7.8	8.5	7.2	7.9	7.5	7.1	7.3
17	7.4	7.1	7.2	7.9	7.6	7.7	---	---	---	7.4	7.2	7.3
18	7.3	7.2	7.3	8.0	7.5	7.7	---	---	---	7.5	7.2	7.4
19	7.3	7.2	7.3	8.2	7.7	7.9	---	---	---	7.6	7.2	7.4
20	7.4	7.3	7.3	8.0	7.8	7.8	---	---	---	8.1	7.4	7.7
21	---	---	---	8.4	7.7	8.0	---	---	---	8.1	6.8	7.5
22	7.5	7.3	7.4	8.2	7.8	8.0	---	---	---	7.4	7.0	7.2
23	7.5	7.3	7.4	8.3	7.7	7.9	---	---	---	7.3	7.0	7.2
24	8.0	7.4	7.5	8.8	7.8	8.4	---	---	---	8.0	7.2	7.5
25	7.7	7.3	7.5	8.8	7.8	8.5	---	---	---	8.0	6.9	7.6
26	8.1	7.2	7.4	8.7	8.0	8.3	---	---	---	8.0	6.9	7.4
27	8.4	7.5	7.9	8.6	7.8	8.2	---	---	---	7.8	7.1	7.5
28	8.2	7.4	7.6	8.5	7.6	8.0	---	---	---	7.6	7.1	7.2
29	8.6	7.5	7.9	8.3	7.5	7.9	---	---	---	7.3	7.0	7.1
30	---	---	---	---	---	---	---	---	---	7.6	7.2	7.4
31	---	---	---	8.6	7.7	8.2	---	---	---	8.1	7.3	7.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	8.4	7.2	8.0	7.6	7.3	7.4	8.3	7.4	8.0	7.8	7.1	7.5
2	8.5	7.3	8.1	7.7	7.3	7.5	8.3	6.7	7.7	7.9	7.0	7.4
3	8.7	7.0	8.2	7.8	7.3	7.6	8.1	6.7	7.4	8.6	7.2	7.7
4	8.0	7.3	7.7	7.9	7.7	7.8	7.2	6.8	6.9	8.2	7.1	7.8
5	8.2	7.6	7.9	8.1	7.5	7.8	7.9	6.8	7.1	8.1	7.1	7.5
6	8.3	7.1	7.9	8.2	7.3	7.8	7.2	6.7	6.9	7.4	7.1	7.3
7	8.0	7.3	7.7	8.2	7.7	8.0	7.3	6.8	7.0	8.1	7.2	7.5
8	8.2	7.4	7.9	8.3	7.0	8.0	7.8	6.8	7.1	8.6	7.6	7.9
9	8.5	7.3	8.1	8.2	7.3	7.9	8.1	6.8	7.4	8.3	6.9	7.5
10	8.6	8.3	8.4	8.2	7.7	8.0	8.3	6.8	7.4	8.2	6.7	7.5
11	8.5	7.5	8.3	8.4	7.9	8.2	8.1	6.7	6.9	8.8	6.8	8.0
12	8.4	7.4	8.1	8.3	7.2	8.0	7.9	6.8	7.1	8.8	7.2	7.9
13	7.7	6.5	7.1	8.2	7.1	7.8	7.4	6.9	7.2	8.6	7.4	7.9
14	7.1	6.4	6.8	8.2	7.5	7.8	7.7	7.1	7.3	7.7	6.8	7.2
15	7.0	6.5	6.8	---	---	---	8.1	7.1	7.6	7.8	6.9	7.3
16	7.2	6.6	7.0	8.2	7.3	7.8	7.9	7.1	7.7	8.2	6.9	7.3
17	7.2	6.9	7.1	8.2	7.0	7.6	7.6	6.3	7.0	7.5	6.8	7.2
18	7.3	7.1	7.2	8.4	6.8	7.8	7.2	6.4	6.9	7.7	6.9	7.3
19	7.5	7.2	7.3	8.3	6.8	8.0	7.2	6.6	6.9	7.5	7.0	7.2
20	7.7	7.0	7.5	8.1	7.5	7.9	7.6	7.0	7.2	8.0	7.2	7.5
21	8.0	7.4	7.7	8.0	7.3	7.8	7.6	7.2	7.4	8.0	7.3	7.6
22	7.8	7.3	7.6	8.4	7.7	8.0	7.8	7.3	7.5	8.0	7.2	7.7
23	8.0	7.1	7.5	8.2	7.1	7.9	7.9	7.5	7.6	7.8	7.0	7.5
24	8.0	7.3	7.7	7.8	7.5	7.7	8.3	7.8	8.0	8.7	7.2	7.7
25	8.1	7.7	7.8	7.7	7.4	7.6	8.4	7.8	8.0	8.3	6.8	7.6
26	8.1	7.8	8.0	8.0	7.4	7.7	8.6	7.4	7.9	7.5	7.1	7.3
27	8.2	7.8	8.0	8.6	7.3	7.9	8.3	7.1	7.9	8.1	7.3	7.6
28	8.1	7.8	8.0	8.4	7.1	7.9	8.3	7.5	8.0	8.7	7.5	8.1
29	8.0	7.0	7.4	8.5	7.1	7.8	8.1	7.2	7.8	8.5	7.3	8.0
30	7.5	7.0	7.3	8.7	7.0	7.9	7.8	7.4	7.6	8.2	7.6	7.9
31	---	---	---	8.3	6.7	7.8	---	---	---	---	---	---
MONTH	8.7	6.4	7.7	---	---	---	---	---	---	8.8	6.7	7.6

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	---	---	---	6.6	6.5	6.6	7.7	7.2	7.5	7.7	7.5	7.6
2	---	---	---	6.6	6.4	6.5	7.5	7.4	7.4	7.6	7.5	7.5
3	---	---	---	6.7	6.4	6.6	7.5	7.2	7.3	7.6	7.5	7.5
4	---	---	---	6.7	6.7	6.7	7.8	7.1	7.2	7.7	7.5	7.5
5	---	---	---	6.7	6.6	6.7	7.2	7.1	7.2	7.9	7.6	7.7
6	---	---	---	6.7	6.6	6.7	7.7	7.0	7.2	8.3	7.5	7.7
7	---	---	---	6.8	6.6	6.7	7.7	7.1	7.3	8.2	7.3	7.6
8	---	---	---	6.8	6.6	6.7	7.2	7.1	7.1	7.5	7.3	7.4
9	---	---	---	6.7	6.6	6.6	7.2	7.0	7.1	7.4	7.3	7.3
10	---	---	---	6.8	6.6	6.7	7.4	7.0	7.1	7.5	7.2	7.3
11	---	---	---	7.0	6.6	6.7	7.4	7.0	7.1	7.7	7.3	7.5
12	---	---	---	7.0	6.7	6.8	7.0	6.9	7.0	7.7	7.2	7.3
13	---	---	---	7.0	6.6	6.7	7.2	6.9	6.9	7.8	7.2	7.4
14	---	---	---	6.6	6.6	6.6	7.6	6.8	7.1	8.0	7.4	7.6
15	---	---	---	7.0	6.6	6.8	7.7	6.8	7.0	7.9	7.5	7.7
16	---	---	---	7.1	6.7	6.9	7.8	6.8	7.4	7.9	7.5	7.7
17	---	---	---	7.2	6.7	6.9	7.8	7.3	7.5	7.9	7.6	7.7
18	---	---	---	7.1	6.7	6.8	7.4	7.1	7.3	7.9	7.6	7.7
19	---	---	---	7.1	6.7	6.8	7.6	7.2	7.4	7.8	7.3	7.6
20	---	---	---	7.0	6.8	6.8	7.5	7.1	7.3	7.7	7.3	7.4
21	---	---	---	7.4	6.7	6.9	7.4	7.0	7.1	7.5	7.3	7.4
22	6.5	6.0	6.2	7.7	6.7	7.1	7.2	6.9	7.0	7.4	7.4	7.4
23	6.4	5.9	6.2	8.0	6.7	7.4	7.1	6.8	6.9	7.6	7.3	7.4
24	6.4	6.0	6.2	8.0	6.7	7.0	7.4	6.9	7.0	7.5	7.2	7.4
25	6.5	6.2	6.3	7.3	6.7	6.8	7.7	7.1	7.3	7.4	7.2	7.3
26	6.6	6.2	6.4	7.3	6.7	6.9	7.8	7.1	7.4	7.3	7.2	7.3
27	6.7	6.3	6.5	7.4	6.9	7.2	7.7	7.2	7.5	7.3	7.2	7.2
28	6.6	6.2	6.5	7.4	6.8	7.1	7.7	7.0	7.3	7.3	7.2	7.2
29	6.6	6.6	6.6	7.6	7.1	7.3	7.8	7.1	7.6	7.2	7.2	7.2
30	6.6	6.5	6.6	7.5	7.2	7.4	8.2	7.7	7.9	7.2	7.1	7.1
31	6.6	6.5	6.5	---	---	---	7.8	7.6	7.7	7.2	7.0	7.1
MONTH	---	---	---	8.0	6.4	6.8	8.2	6.8	7.3	8.3	7.0	7.4

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	6.8	6.7	6.8	8.8	8.3	8.5	---	---	---
2	7.1	6.8	6.9	6.9	6.7	6.8	8.7	7.5	8.1	---	---	---
3	7.1	6.8	6.8	6.9	6.7	6.8	8.6	7.9	8.4	---	---	---
4	7.1	6.8	6.8	6.9	6.7	6.8	8.6	8.1	8.3	8.5	6.6	7.6
5	6.9	6.7	6.8	6.8	6.7	6.7	8.1	7.5	7.7	8.3	6.6	7.7
6	6.9	6.8	6.9	6.8	6.7	6.7	7.9	7.4	7.6	7.6	6.6	6.8
7	6.9	6.8	6.9	6.7	6.7	6.7	7.8	7.5	7.7	7.6	6.6	6.7
8	6.9	6.7	6.8	6.7	6.7	6.7	8.3	7.6	7.9	7.4	6.6	6.6
9	6.8	6.7	6.8	6.8	6.7	6.7	8.1	7.5	7.7	6.8	6.5	6.5
10	7.0	6.8	6.9	6.9	6.7	6.7	7.7	7.4	7.5	6.5	6.4	6.5
11	7.0	6.9	7.0	6.7	6.7	6.7	7.8	7.1	7.4	7.7	6.4	6.6
12	---	---	---	7.4	6.7	7.0	8.2	7.2	7.6	7.0	6.5	6.5
13	7.0	6.9	7.0	7.5	7.0	7.2	7.7	7.4	7.5	6.6	6.5	6.6
14	7.1	6.9	6.9	8.1	7.2	7.5	7.8	7.4	7.5	7.5	6.5	6.6
15	6.9	6.9	6.9	7.8	7.4	7.6	7.6	7.3	7.5	7.4	6.5	6.8
16	6.9	6.9	6.9	7.9	7.2	7.6	7.6	7.0	7.3	7.4	6.6	6.9
17	7.2	6.9	6.9	7.8	7.5	7.6	---	---	---	7.4	6.7	7.0
18	7.2	6.8	6.9	8.0	7.5	7.7	---	---	---	7.5	6.6	7.0
19	7.2	6.8	6.9	8.2	7.7	7.9	---	---	---	7.5	6.8	7.2
20	7.0	6.8	6.9	7.9	7.8	7.8	---	---	---	7.5	6.8	7.2
21	---	---	---	8.4	7.7	8.0	---	---	---	7.7	6.8	7.0
22	6.8	6.8	6.8	8.1	7.6	7.8	---	---	---	7.4	6.9	7.1
23	7.1	6.8	6.8	8.0	7.5	7.7	---	---	---	7.5	7.1	7.3
24	7.3	6.8	6.8	8.0	7.5	7.7	---	---	---	7.4	7.1	7.3
25	7.2	6.7	6.8	7.7	7.5	7.6	---	---	---	7.8	6.8	7.2
26	6.9	6.8	6.8	7.7	7.3	7.4	---	---	---	7.3	6.7	6.9
27	7.2	6.7	6.8	7.8	7.2	7.4	---	---	---	7.4	6.6	6.8
28	7.4	6.7	6.9	8.4	7.3	7.8	---	---	---	7.5	6.9	7.1
29	6.8	6.8	6.8	8.3	7.6	7.9	---	---	---	7.4	7.1	7.2
30	---	---	---	---	---	---	---	---	---	7.6	7.2	7.4
31	---	---	---	8.7	7.8	8.3	---	---	---	7.8	7.2	7.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	---	---	---	17.9	15.6	16.3	12.8	10.6	11.5	8.2	6.8	7.5
2	---	---	---	17.3	16.3	16.7	10.7	9.7	10.2	9.6	7.5	8.6
3	---	---	---	16.9	14.8	15.7	10.3	8.1	9.5	10.7	8.6	9.7
4	---	---	---	15.3	14.4	14.9	10.3	9.4	9.8	11.2	9.0	10.2
5	---	---	---	16.1	14.4	14.9	11.1	9.6	10.3	12.0	9.5	10.9
6	---	---	---	15.7	14.3	14.9	12.4	10.7	11.6	10.2	9.2	9.7
7	---	---	---	15.5	14.8	15.1	11.9	10.9	11.3	10.1	9.3	9.8
8	---	---	---	15.8	14.3	14.8	11.2	9.6	10.6	9.9	8.9	9.2
9	---	---	---	15.3	14.0	14.5	11.7	9.3	10.7	9.6	8.9	9.3
10	---	---	---	16.2	14.5	15.1	11.7	10.4	11.2	10.7	9.5	10.1
11	---	---	---	16.9	15.1	15.8	12.1	10.9	11.4	11.1	10.0	10.4
12	---	---	---	16.2	15.4	15.8	11.4	10.1	10.7	10.7	9.5	10.3
13	---	---	---	16.4	15.1	15.8	11.9	10.7	11.3	11.5	10.1	10.7
14	---	---	---	16.6	15.5	16.0	12.9	11.7	12.2	10.6	8.7	9.6
15	---	---	---	16.1	14.8	15.5	12.9	12.0	12.4	8.8	7.0	8.0
16	---	---	---	14.9	13.6	14.3	12.2	11.3	11.8	8.5	6.9	7.7
17	---	---	---	13.7	12.6	13.2	12.3	10.6	11.3	8.2	6.8	7.6
18	---	---	---	13.4	11.3	12.5	11.5	10.9	11.2	6.8	5.2	6.0
19	---	---	---	13.4	11.9	12.8	11.3	10.9	11.1	5.8	4.8	5.2
20	---	---	---	14.5	13.2	13.5	12.1	11.2	11.6	---	---	---
21	---	---	---	15.1	13.6	14.2	12.1	11.6	11.8	5.2	3.6	4.3
22	18.7	18.0	18.3	15.7	14.3	14.9	11.9	11.0	11.5	4.1	2.9	3.4
23	18.0	16.8	17.6	16.7	14.9	15.5	11.0	10.1	10.5	3.6	3.1	3.3
24	16.8	15.4	16.2	17.9	15.5	16.2	10.3	9.3	9.8	4.5	3.3	3.6
25	15.9	14.7	15.2	17.6	15.8	16.4	9.3	6.8	8.4	4.3	2.2	3.1
26	16.6	14.6	15.2	17.5	16.3	16.7	8.2	6.4	7.3	2.9	2.2	2.4
27	15.7	14.8	15.3	17.0	16.3	16.8	7.2	6.0	6.9	2.3	1.6	2.0
28	15.7	14.6	15.1	16.3	15.7	16.0	7.2	6.2	6.8	1.7	.9	1.5
29	16.2	15.1	15.3	15.9	14.9	15.4	7.0	6.4	6.7	1.8	.8	1.2
30	16.9	15.1	15.7	14.9	12.8	13.9	7.1	6.3	6.7	2.6	1.3	1.7
31	17.4	15.3	16.0	---	---	---	7.8	6.7	7.1	3.0	2.1	2.5
MONTH	---	---	---	17.9	11.3	15.1	12.9	6.0	10.2	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.1	2.2	2.6	14.3	13.0	13.8	16.6	14.6	15.4	---	---	---
2	3.0	2.4	2.7	14.4	13.6	14.0	16.1	15.1	15.6	---	---	---
3	3.7	2.0	3.0	13.8	12.6	13.2	17.8	15.9	16.6	---	---	---
4	6.2	3.2	4.1	13.2	11.9	12.6	18.0	16.9	17.4	20.0	18.5	19.2
5	5.5	3.7	4.4	13.1	11.6	12.3	17.1	15.2	16.0	22.6	18.9	20.5
6	5.2	3.8	4.4	13.9	12.0	12.9	17.4	14.7	15.6	24.8	20.4	21.9
7	5.9	4.1	4.9	14.2	12.7	13.5	18.1	15.6	16.5	24.7	21.7	22.7
8	5.7	4.7	5.3	16.8	13.2	14.4	18.2	16.1	16.8	24.5	22.1	22.9
9	5.7	5.0	5.3	16.3	14.7	15.3	---	---	---	23.5	21.2	22.5
10	6.8	5.4	5.8	18.0	15.1	16.3	17.0	13.6	15.3	23.7	22.3	22.9
11	8.0	6.0	7.0	17.5	16.3	16.9	16.6	14.9	15.8	25.0	22.4	23.1
12	---	---	---	17.1	15.2	16.5	17.6	16.0	16.5	24.2	22.8	23.7
13	6.6	6.0	6.3	15.3	14.0	14.6	16.6	15.0	15.6	27.1	23.6	24.7
14	7.9	6.4	7.2	15.4	13.1	14.3	15.4	14.8	15.0	25.9	24.2	24.8
15	8.9	7.4	8.0	15.4	13.7	14.3	15.9	15.2	15.5	24.3	23.2	23.9
16	9.0	7.7	8.3	15.9	14.6	15.1	17.4	15.7	16.4	23.5	22.5	23.0
17	8.8	7.7	8.3	16.5	15.4	15.9	---	---	---	23.4	22.6	22.9
18	8.4	7.7	8.0	15.8	14.3	14.7	---	---	---	24.1	22.5	23.1
19	10.6	8.1	9.3	14.3	13.4	13.9	---	---	---	25.0	22.6	23.6
20	10.9	9.3	10.0	13.8	13.4	13.7	---	---	---	26.5	23.9	25.0
21	---	---	---	14.0	13.4	13.7	---	---	---	26.6	23.6	25.1
22	10.0	8.8	9.5	13.5	12.5	12.9	---	---	---	24.8	24.1	24.6
23	11.1	9.4	10.1	13.1	12.2	12.6	---	---	---	24.6	23.8	24.2
24	12.5	10.4	11.2	14.1	11.6	12.6	---	---	---	26.0	23.9	24.8
25	13.5	10.7	11.9	15.0	12.7	14.0	---	---	---	26.6	24.5	25.6
26	14.1	11.8	12.7	15.7	14.4	15.0	---	---	---	---	---	---
27	14.1	13.0	13.4	15.7	14.7	15.1	---	---	---	---	---	---
28	14.5	13.3	13.9	16.1	14.9	15.4	---	---	---	25.8	25.0	25.3
29	14.5	13.2	13.8	15.5	14.3	15.0	---	---	---	25.0	23.0	24.1
30	---	---	---	---	---	---	---	---	---	23.0	20.9	22.0
31	---	---	---	15.9	14.6	15.2	---	---	---	22.8	20.4	21.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	22.5	21.3	21.8	28.6	27.4	28.0	28.8	27.2	27.9	26.7	25.6	26.0
2	23.9	21.9	22.8	28.5	27.5	27.8	28.7	27.6	28.2	27.0	25.7	26.2
3	25.7	21.6	24.1	28.0	27.4	27.7	28.4	27.4	28.1	28.0	26.3	27.0
4	23.8	23.3	23.6	28.1	27.1	27.5	27.9	26.9	27.3	27.6	26.8	27.3
5	23.5	23.2	23.3	29.1	26.9	27.9	28.6	26.4	27.2	27.2	25.5	26.3
6	23.9	23.0	23.4	28.5	27.3	27.9	28.0	27.2	27.5	25.5	24.1	24.8
7	23.6	22.2	22.9	28.1	27.2	27.7	28.6	27.3	27.9	24.6	23.3	23.8
8	23.6	22.2	22.8	29.4	27.0	27.5	29.7	27.6	28.2	24.7	23.0	23.4
9	24.4	22.7	23.4	27.8	27.1	27.4	30.2	27.9	28.7	24.4	23.2	23.6
10	25.7	23.5	24.3	28.6	26.6	27.4	29.8	27.1	28.6	25.1	23.5	24.2
11	26.5	24.3	25.2	29.0	27.3	28.1	29.4	28.0	28.6	26.3	24.1	25.1
12	26.5	24.8	25.5	28.7	27.2	27.9	29.0	27.2	28.0	27.3	24.9	25.7
13	27.6	24.3	25.7	27.8	27.0	27.3	28.2	26.1	27.0	26.9	25.5	26.0
14	28.7	23.5	26.6	28.0	26.8	27.2	26.9	25.5	26.2	27.1	25.7	26.3
15	28.7	25.5	27.2	---	---	---	27.3	25.8	26.5	27.3	26.0	26.7
16	29.0	26.8	28.2	28.9	26.9	27.6	28.0	26.4	27.2	26.3	24.3	25.0
17	28.5	27.2	28.0	29.3	27.3	27.9	28.0	26.6	27.1	24.7	22.9	23.5
18	28.9	27.4	27.9	29.8	27.4	28.7	28.1	26.3	27.5	23.7	22.3	22.9
19	28.9	27.5	28.2	30.0	27.3	29.0	27.9	26.7	27.3	23.8	22.5	23.0
20	28.2	26.2	27.4	28.9	27.7	28.3	27.3	26.6	26.9	24.1	22.8	23.5
21	28.4	26.4	27.2	28.3	26.9	27.6	26.8	25.6	26.3	25.2	23.8	24.3
22	28.3	26.8	27.4	28.7	26.4	27.2	27.0	25.4	26.0	25.1	24.5	24.8
23	28.7	26.7	27.3	27.9	26.8	27.5	26.5	25.5	25.8	24.7	24.2	24.5
24	29.4	26.8	27.9	27.2	26.7	27.0	27.3	26.0	26.5	26.2	23.9	24.8
25	29.2	28.0	28.5	26.7	26.2	26.3	27.1	26.2	26.6	25.7	24.1	25.1
26	29.5	28.4	28.9	26.3	25.7	26.1	26.7	25.9	26.2	25.0	22.9	24.0
27	29.4	28.3	28.9	27.2	25.9	26.2	26.9	25.5	26.1	22.9	21.9	22.3
28	29.6	28.5	28.8	27.5	26.0	26.8	26.6	25.8	26.1	22.3	20.7	21.6
29	28.7	28.0	28.4	28.8	26.6	27.5	26.3	25.5	26.0	22.4	20.7	21.4
30	28.3	27.1	27.9	28.2	26.7	27.7	26.1	25.5	25.7	21.6	20.6	21.1
31	---	---	---	28.1	26.8	27.5	---	---	---	---	---	---
MONTH	29.6	21.3	26.1	---	---	---	---	---	---	28.0	20.6	24.5

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	---	---	---	17.0	16.0	16.5	13.3	11.5	12.0	7.8	7.6	7.7
2	---	---	---	17.0	16.2	16.6	11.7	10.5	10.9	7.9	7.8	7.9
3	---	---	---	17.0	14.8	15.7	11.3	10.8	11.1	8.0	7.7	7.8
4	---	---	---	15.3	14.8	15.1	11.2	10.5	11.0	9.8	7.7	8.2
5	---	---	---	15.8	14.2	15.1	11.1	10.8	10.9	11.5	9.6	10.5
6	---	---	---	15.7	14.4	14.8	11.9	10.7	11.0	10.3	9.4	9.9
7	---	---	---	15.4	14.8	15.1	11.9	10.9	11.1	10.2	9.8	10.0
8	---	---	---	15.3	14.4	15.0	11.1	10.9	11.0	10.1	9.9	10.0
9	---	---	---	15.4	14.2	15.1	11.2	11.0	11.1	10.0	10.0	10.0
10	---	---	---	15.4	14.7	15.1	11.7	11.1	11.3	10.6	9.7	10.1
11	---	---	---	16.2	15.3	15.6	11.7	11.4	11.5	11.1	10.2	10.5
12	---	---	---	16.0	15.5	15.7	11.5	11.4	11.5	10.8	10.4	10.7
13	---	---	---	15.9	15.4	15.8	11.7	11.4	11.6	11.6	10.5	10.8
14	---	---	---	16.0	15.9	15.9	12.9	11.6	11.9	10.6	9.4	9.8
15	---	---	---	16.1	15.3	15.8	12.6	11.9	12.1	9.7	8.5	9.1
16	---	---	---	16.0	14.2	14.7	12.3	11.6	12.0	9.0	7.9	8.5
17	---	---	---	15.4	13.4	14.5	11.7	10.8	11.3	8.3	7.3	7.7
18	---	---	---	15.3	14.0	14.8	11.8	11.1	11.5	7.6	6.3	6.9
19	---	---	---	15.2	13.6	14.7	11.8	11.0	11.2	7.0	5.6	6.2
20	---	---	---	14.7	13.6	14.2	12.0	11.2	11.5	6.5	5.2	5.9
21	---	---	---	14.8	13.7	14.3	12.0	11.6	11.7	5.3	4.5	4.8
22	18.6	18.0	18.3	15.2	14.4	14.7	11.9	11.4	11.7	5.0	4.6	4.8
23	18.1	16.9	17.6	15.9	14.7	15.2	11.7	10.5	11.5	5.0	3.4	4.6
24	16.9	15.4	16.2	15.9	15.0	15.4	11.4	9.4	10.9	5.1	3.4	4.0
25	16.0	14.7	15.1	16.2	15.1	15.4	9.4	8.3	8.8	4.4	2.6	3.3
26	17.2	14.5	15.4	16.7	15.2	15.8	9.7	7.6	8.4	3.5	2.3	2.9
27	18.1	15.1	16.6	17.0	16.3	16.7	7.9	6.4	7.1	3.4	2.0	2.5
28	17.7	14.7	16.8	16.6	15.9	16.2	8.0	6.6	7.5	3.1	1.7	2.7
29	17.4	16.6	17.1	16.5	15.5	16.0	8.0	6.5	7.1	3.1	2.4	3.0
30	17.0	16.1	16.8	15.6	12.8	14.1	7.5	6.7	7.1	3.2	1.9	2.8
31	16.8	15.7	16.4	---	---	---	7.6	7.4	7.5	3.3	2.2	2.8
MONTH	---	---	---	17.0	12.8	15.3	13.3	6.4	10.5	11.6	1.7	7.0

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	3.4	2.9	3.2	9.9	9.1	9.4	16.1	14.8	15.2	---	---	---
2	3.6	2.5	3.1	10.9	9.7	10.2	16.0	15.1	15.6	---	---	---
3	3.8	3.2	3.5	10.9	10.5	10.7	17.9	15.8	16.5	---	---	---
4	4.0	3.4	3.7	12.1	10.6	10.9	18.0	16.9	17.3	20.3	16.7	18.3
5	4.2	3.7	3.9	11.3	11.1	11.2	17.1	15.6	16.1	20.2	17.7	19.3
6	4.2	3.7	3.9	11.2	11.1	11.2	17.2	15.5	16.0	20.1	17.9	18.6
7	4.2	3.9	4.0	11.7	11.2	11.4	16.6	15.6	16.0	21.3	18.1	18.6
8	5.0	3.9	4.2	12.1	11.5	11.6	17.9	16.0	16.7	21.0	18.3	19.1
9	4.6	4.3	4.5	12.3	11.5	11.8	16.9	13.9	15.4	20.5	19.1	19.3
10	4.5	4.2	4.3	13.7	11.9	12.1	15.2	14.3	14.7	20.5	19.2	19.4
11	4.7	4.4	4.5	12.6	12.0	12.1	16.2	14.6	15.2	22.8	19.3	20.3
12	---	---	---	16.6	12.4	14.8	17.1	15.9	16.3	22.5	19.7	20.3
13	5.0	4.6	4.8	15.2	14.2	14.5	16.6	15.0	15.6	20.4	19.5	19.7
14	6.3	4.9	5.1	15.1	13.6	14.1	15.3	14.7	15.0	24.5	19.7	20.3
15	6.0	5.0	5.3	14.6	13.7	14.1	15.7	15.1	15.4	23.5	20.5	21.6
16	6.0	5.4	5.6	15.7	14.4	14.9	16.2	15.4	15.6	23.1	20.9	22.2
17	8.1	5.5	6.0	16.3	15.4	15.8	---	---	---	23.1	22.0	22.7
18	8.0	6.0	6.8	15.8	14.2	14.7	---	---	---	23.4	21.6	22.4
19	9.9	6.1	7.4	14.3	13.3	13.9	---	---	---	23.6	22.4	23.0
20	8.5	6.8	6.9	13.8	13.4	13.6	---	---	---	24.3	22.6	23.5
21	---	---	---	13.9	13.3	13.6	---	---	---	26.1	22.7	23.7
22	8.8	7.3	7.6	13.6	12.7	13.2	---	---	---	24.5	23.5	24.1
23	9.1	7.6	8.0	13.0	12.4	12.7	---	---	---	24.6	23.9	24.2
24	9.5	7.7	8.1	13.6	12.5	12.7	---	---	---	24.5	24.0	24.2
25	9.2	8.1	8.4	13.3	12.6	12.9	---	---	---	26.5	24.2	25.0
26	9.2	7.9	8.2	14.1	13.2	13.4	---	---	---	---	---	---
27	11.4	8.2	9.0	14.9	13.3	13.8	---	---	---	---	---	---
28	13.5	8.5	10.3	15.5	14.2	15.0	---	---	---	25.7	25.0	25.3
29	10.1	8.6	9.1	15.4	14.3	15.0	---	---	---	25.1	23.1	24.1
30	---	---	---	---	---	---	---	---	---	23.1	21.7	22.2
31	---	---	---	15.8	14.5	15.1	---	---	---	22.0	20.9	21.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.0	21.4	21.7	28.6	27.4	27.9	26.7	26.2	26.4	26.0	25.5	25.6
2	21.6	21.1	21.3	28.2	27.3	27.6	27.0	26.4	26.5	26.2	25.5	25.7
3	23.0	21.2	21.5	27.8	27.1	27.5	26.7	26.4	26.6	26.3	25.6	25.8
4	23.7	21.9	22.4	27.8	27.2	27.4	26.6	26.5	26.6	26.5	25.8	26.1
5	23.2	21.5	21.8	28.4	26.9	27.4	26.7	26.5	26.6	26.5	26.1	26.3
6	23.8	21.5	22.3	27.8	27.1	27.2	26.7	26.5	26.6	26.1	24.2	24.9
7	21.8	21.5	21.7	28.1	27.0	27.4	26.7	26.5	26.6	24.6	23.4	24.1
8	21.9	21.7	21.8	27.6	27.0	27.2	26.7	26.6	26.7	24.6	23.0	24.0
9	22.1	21.7	21.8	27.5	27.1	27.2	26.8	26.6	26.7	24.6	24.1	24.4
10	22.1	21.9	21.9	27.7	26.6	27.0	27.2	26.7	26.8	24.5	24.0	24.3
11	22.3	21.9	22.0	28.3	26.9	27.2	26.9	26.7	26.8	24.2	24.0	24.1
12	22.4	21.9	22.1	27.8	27.1	27.4	26.9	26.7	26.8	24.8	24.1	24.3
13	22.4	22.2	22.3	27.7	27.0	27.3	27.2	26.8	26.9	24.5	24.3	24.4
14	23.0	22.3	22.5	27.3	26.8	27.1	27.1	25.6	26.7	25.0	24.4	24.5
15	23.8	22.6	22.8	---	---	---	27.0	26.5	26.8	24.9	24.4	24.7
16	23.8	22.9	23.0	27.2	27.1	27.1	26.9	26.5	26.7	25.6	24.9	25.3
17	24.0	23.0	23.3	27.5	27.0	27.2	27.0	26.7	26.8	25.2	25.1	25.2
18	24.1	23.1	23.5	27.4	26.9	27.0	28.0	26.8	27.1	25.2	23.9	25.0
19	23.8	23.5	23.6	27.6	26.9	27.0	27.3	26.8	27.0	24.5	22.6	23.6
20	25.9	23.6	24.6	28.1	27.0	27.6	27.2	26.7	27.0	24.4	23.1	24.0
21	27.9	24.6	25.2	27.5	27.3	27.4	26.8	25.6	26.3	24.2	23.7	24.0
22	27.6	25.0	26.4	27.4	26.5	27.2	26.3	25.4	25.8	24.2	23.9	24.0
23	27.4	25.5	26.5	27.7	26.9	27.3	26.1	25.5	25.8	24.3	24.0	24.1
24	28.3	25.8	26.7	27.5	26.6	27.1	26.3	25.6	25.9	24.2	24.0	24.1
25	28.3	26.1	27.2	27.0	26.2	26.4	26.1	25.8	25.9	24.8	23.9	24.0
26	28.6	26.7	27.8	26.2	25.7	26.0	26.0	25.8	25.9	24.8	23.7	24.1
27	28.9	28.0	28.4	26.2	26.0	26.1	26.4	25.8	25.9	23.9	23.4	23.8
28	29.0	28.4	28.6	26.3	26.1	26.2	26.1	25.6	25.9	23.8	23.3	23.6
29	28.7	28.0	28.4	26.3	26.1	26.2	26.2	25.8	26.0	23.6	21.5	22.8
30	28.4	27.3	27.9	26.6	26.1	26.2	26.1	25.4	25.7	23.3	20.7	22.0
31	---	---	---	26.6	26.2	26.3	---	---	---	---	---	---
MONTH	29.0	21.1	24.0	---	---	---	---	---	---	26.5	20.7	24.4

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	6.8	7.3	9.3	8.7	9.0	16.1	12.8	13.7
2	---	---	---	7.6	6.8	7.3	9.7	9.2	9.5	14.8	12.7	13.8
3	---	---	---	8.6	6.8	8.2	10.4	9.4	10.0	13.5	12.2	12.7
4	---	---	---	8.8	8.2	8.5	10.3	10.0	10.2	12.6	9.8	11.2
5	---	---	---	8.9	8.3	8.5	10.8	9.9	10.2	11.1	9.9	10.7
6	---	---	---	8.8	8.5	8.6	10.7	9.7	10.3	12.6	10.4	11.0
7	---	---	---	9.0	8.6	8.8	10.0	9.3	9.7	12.4	10.6	11.3
8	---	---	---	9.0	8.4	8.7	11.5	9.4	10.1	11.9	10.9	11.2
9	---	---	---	9.4	8.3	8.7	11.5	9.4	10.8	11.9	10.9	11.5
10	---	---	---	8.6	8.0	8.4	11.1	9.1	9.9	12.0	9.4	10.6
11	---	---	---	9.3	8.1	8.7	10.3	9.2	10.0	11.4	9.4	10.1
12	---	---	---	9.2	8.8	9.0	11.6	10.1	10.4	12.2	9.9	10.6
13	---	---	---	9.2	8.9	9.1	11.2	10.2	10.7	11.3	9.7	10.4
14	---	---	---	9.3	9.0	9.1	---	---	---	11.2	10.3	10.8
15	---	---	---	9.4	7.8	8.9	---	---	---	12.9	10.8	11.5
16	---	---	---	9.2	8.5	8.7	---	---	---	12.7	11.4	11.6
17	---	---	---	9.8	8.1	8.9	---	---	---	12.1	11.2	11.5
18	---	---	---	9.2	7.8	8.2	---	---	---	12.4	11.3	11.7
19	---	---	---	9.1	8.1	8.5	---	---	---	12.2	11.7	11.9
20	---	---	---	10.0	8.1	8.6	---	---	---	---	---	---
21	---	---	---	9.8	8.3	8.7	---	---	---	12.8	11.6	12.1
22	7.6	6.2	6.8	10.0	8.4	8.8	---	---	---	12.7	11.9	12.2
23	7.6	6.3	6.9	10.4	8.4	9.1	---	---	---	12.9	12.0	12.3
24	8.6	6.4	7.2	11.0	8.7	9.3	---	---	---	12.6	11.6	12.3
25	8.8	7.6	8.0	11.1	8.6	9.1	---	---	---	13.0	11.6	12.3
26	8.5	7.5	7.9	8.8	7.3	8.2	---	---	---	12.9	12.2	12.5
27	8.1	6.9	7.7	8.1	7.5	7.8	---	---	---	13.1	12.6	12.8
28	7.6	7.0	7.3	8.3	7.6	7.9	---	---	---	13.2	12.8	13.0
29	8.0	7.2	7.6	8.7	7.9	8.2	---	---	---	13.4	13.0	13.2
30	8.1	7.1	7.6	8.8	8.1	8.4	13.6	12.7	13.0	13.4	12.5	13.2
31	7.9	6.8	7.2	---	---	---	13.4	12.9	13.1	13.3	12.6	12.9
MONTH	---	---	---	11.1	6.8	8.5	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.0	12.6	12.7	11.9	10.9	11.4	8.7	7.8	8.3	---	---	---
2	12.8	12.5	12.6	11.4	10.4	11.0	8.5	7.4	8.0	---	---	---
3	14.0	12.4	12.6	11.8	10.2	10.9	8.0	7.0	7.4	---	---	---
4	12.6	12.2	12.4	11.8	10.5	11.0	8.5	6.7	7.0	10.6	9.6	10.1
5	12.6	11.8	12.1	12.3	10.6	11.3	9.2	7.9	8.4	11.4	9.5	10.4
6	12.3	11.8	12.0	12.8	11.3	12.0	8.3	7.1	7.7	11.6	9.0	10.4
7	12.3	11.7	11.9	12.6	10.7	11.8	8.3	6.7	7.3	11.5	9.5	10.4
8	11.9	11.6	11.7	12.2	10.4	11.2	9.2	6.2	7.0	10.6	8.8	9.6
9	12.0	11.5	11.6	11.6	10.5	10.9	---	---	---	9.6	7.3	8.8
10	12.2	11.4	11.6	11.3	9.5	10.5	10.8	9.0	9.8	9.0	8.3	8.7
11	11.7	11.5	11.6	10.9	9.3	10.1	10.3	9.1	9.6	9.3	7.9	8.5
12	---	---	---	9.6	8.4	8.9	10.9	9.1	9.6	9.5	7.8	8.8
13	11.9	11.3	11.6	9.9	8.1	8.9	9.3	8.8	9.0	9.0	8.2	8.6
14	11.8	11.3	11.5	11.4	8.9	9.8	9.8	8.8	9.3	8.9	7.5	8.1
15	11.6	11.1	11.3	11.2	9.1	10.1	9.8	9.1	9.5	8.5	7.5	7.9
16	11.4	11.0	11.1	10.6	9.4	9.9	11.2	8.6	10.0	8.0	6.9	7.6
17	11.4	10.8	11.1	9.7	9.0	9.4	---	---	---	8.2	7.4	7.8
18	11.5	11.0	11.2	10.2	8.8	9.4	---	---	---	8.2	7.7	7.9
19	11.3	10.8	11.1	10.5	9.2	9.9	---	---	---	8.6	7.3	8.0
20	11.3	10.7	11.0	10.4	9.3	9.6	---	---	---	9.5	8.0	8.6
21	---	---	---	11.0	9.2	10.1	---	---	---	9.4	5.2	7.8
22	11.6	11.0	11.2	10.9	9.7	10.4	---	---	---	7.6	5.9	7.0
23	11.6	11.0	11.2	10.4	9.2	9.8	---	---	---	7.3	5.9	6.6
24	12.2	11.1	11.5	11.8	9.8	10.7	---	---	---	7.7	6.1	7.0
25	11.8	11.1	11.4	11.7	9.2	10.8	---	---	---	8.9	4.8	7.7
26	12.2	10.9	11.4	11.0	9.4	10.2	---	---	---	8.8	4.8	7.2
27	12.5	11.2	11.7	10.3	8.7	9.4	---	---	---	8.3	6.3	7.7
28	12.0	10.8	11.2	9.5	8.6	9.0	---	---	---	8.0	5.9	6.7
29	12.4	10.9	11.4	9.1	8.2	8.7	---	---	---	7.4	6.0	6.6
30	---	---	---	---	---	---	---	---	---	8.4	7.0	7.7
31	---	---	---	8.9	8.0	8.5	---	---	---	9.4	7.5	8.2
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	10.0	7.2	8.9	8.0	6.8	7.3	8.3	6.1	7.5	7.4	3.9	6.1
2	9.9	6.7	9.0	7.4	6.1	6.9	7.9	1.9	6.5	7.1	2.3	5.4
3	9.9	5.2	8.6	8.0	6.0	7.0	7.7	2.9	6.2	9.9	4.3	6.6
4	8.5	6.8	7.6	8.1	7.2	7.6	6.8	2.1	5.7	8.8	4.0	7.1
5	9.1	7.6	8.2	8.5	6.7	7.6	8.9	1.5	6.1	8.3	4.0	6.3
6	9.0	5.9	8.2	8.6	4.8	7.3	6.8	.9	3.8	5.9	4.2	5.1
7	9.0	7.2	8.1	8.9	6.6	7.6	7.3	2.3	5.2	8.9	4.7	6.8
8	9.5	7.7	8.7	10.0	2.8	7.6	8.2	1.7	5.1	11.1	7.8	8.6
9	10.0	7.1	9.1	8.6	5.0	7.1	8.5	1.1	6.2	9.7	5.5	8.1
10	10.0	9.1	9.4	8.4	6.2	7.3	9.1	.9	5.9	9.9	3.8	8.2
11	9.7	7.7	9.1	8.6	6.1	7.2	8.4	.3	2.1	11.1	4.0	9.1
12	9.9	7.1	8.8	8.0	3.6	7.1	8.6	2.6	5.5	11.2	7.8	9.0
13	8.4	5.0	7.2	7.8	3.1	6.3	7.2	1.7	5.4	11.1	7.3	9.1
14	7.6	1.4	6.5	8.1	4.9	6.1	7.5	3.7	5.7	9.1	4.0	6.5
15	7.5	3.8	6.1	---	---	---	9.3	3.7	6.8	8.2	5.7	7.7
16	7.6	4.7	7.0	8.3	4.9	6.5	7.2	3.7	6.5	9.8	4.5	7.4
17	7.5	5.6	7.2	7.7	2.8	5.5	7.2	2.5	5.6	8.4	4.4	6.9
18	7.6	6.8	7.2	8.3	1.6	5.8	7.2	3.2	6.0	8.7	4.4	6.9
19	8.0	6.9	7.4	8.7	1.4	7.1	6.9	3.9	5.7	8.2	5.8	7.0
20	7.8	4.2	7.1	8.1	5.7	7.0	7.5	5.7	6.4	9.0	6.7	7.9
21	8.6	6.7	7.5	7.8	5.0	7.0	7.2	5.8	6.4	9.1	7.3	8.2
22	7.3	6.3	6.7	10.2	7.0	8.2	8.2	6.0	6.8	9.5	6.3	8.0
23	8.3	5.2	6.7	8.6	2.9	7.2	7.6	6.1	6.6	8.8	5.5	7.6
24	8.0	6.0	7.0	7.7	6.0	6.8	9.3	6.8	7.9	11.0	6.2	8.2
25	7.7	6.4	6.9	7.7	6.4	7.0	10.1	6.4	7.7	---	---	---
26	7.4	5.9	6.6	8.5	6.1	7.3	12.4	4.6	7.1	---	---	---
27	8.2	6.6	7.3	11.9	4.7	7.6	8.2	2.9	7.0	---	---	---
28	7.9	6.8	7.3	9.6	3.7	7.4	8.3	5.1	6.9	---	---	---
29	7.3	6.5	6.8	9.7	4.5	7.0	7.1	2.6	5.6	10.5	6.6	8.4
30	8.0	6.2	7.2	10.4	3.8	6.8	6.1	4.2	5.4	9.0	7.2	8.2
31	---	---	---	8.3	1.4	6.2	---	---	---	---	---	---
MONTH	10.0	1.4	7.6	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	---	---	---	3.1	2.5	2.9	---	---	---	9.9	9.2	9.6
2	---	---	---	7.8	2.4	4.5	---	---	---	9.3	8.7	9.0
3	---	---	---	9.8	6.9	9.1	---	---	---	9.2	8.4	8.9
4	---	---	---	9.7	8.7	9.3	---	---	---	10.0	8.6	9.0
5	---	---	---	9.6	7.1	8.5	---	---	---	10.6	9.3	10.0
6	---	---	---	9.7	7.8	8.8	---	---	---	11.7	9.1	10.0
7	---	---	---	9.9	7.8	9.6	---	---	---	11.6	8.1	9.2
8	---	---	---	9.9	6.8	8.4	---	---	---	9.1	7.8	8.4
9	---	---	---	9.8	6.0	7.3	---	---	---	8.6	7.6	8.1
10	---	---	---	9.6	5.8	7.5	---	---	---	9.8	7.7	8.5
11	---	---	---	10.1	4.9	7.4	---	---	---	10.4	8.6	9.5
12	---	---	---	10.2	4.9	8.2	---	---	---	10.8	9.1	9.6
13	---	---	---	10.0	4.1	5.0	---	---	---	10.7	8.7	9.8
14	---	---	---	5.9	3.5	3.9	---	---	---	10.9	10.1	10.5
15	---	---	---	10.2	4.2	7.3	---	---	---	10.8	9.7	10.3
16	---	---	---	10.2	4.6	8.6	---	---	---	11.3	9.8	10.7
17	---	---	---	---	---	---	---	---	---	11.5	11.0	11.2
18	---	---	---	---	---	---	---	---	---	11.6	10.9	11.2
19	---	---	---	---	---	---	---	---	---	11.7	10.3	10.9
20	---	---	---	---	---	---	---	---	---	11.7	10.2	11.0
21	---	---	---	---	---	---	---	---	---	11.7	11.4	11.5
22	7.8	6.5	7.1	---	---	---	---	---	---	11.6	10.9	11.1
23	7.9	6.6	7.1	---	---	---	---	---	---	12.3	10.7	11.1
24	9.0	6.7	7.6	---	---	---	---	---	---	12.3	9.9	11.6
25	9.0	7.7	8.4	---	---	---	---	---	---	12.4	11.3	12.0
26	8.7	4.4	7.1	---	---	---	---	---	---	12.4	11.5	12.0
27	7.7	3.9	5.1	---	---	---	---	---	---	12.5	11.1	12.1
28	7.9	3.6	4.6	---	---	---	---	---	---	12.7	11.0	11.7
29	4.0	3.3	3.5	---	---	---	---	---	---	11.6	11.0	11.3
30	3.6	2.9	3.3	---	---	---	12.4	10.6	11.5	12.9	10.7	11.2
31	4.4	2.8	3.1	---	---	---	10.9	9.8	10.3	12.9	10.1	11.4
MONTH	---	---	---	---	---	---	---	---	---	12.9	7.6	10.4

02084533300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	12.5	9.5	10.5	5.2	4.5	4.8	---	---	---	---	---	---
2	12.4	9.0	11.2	6.3	4.1	4.8	---	---	---	---	---	---
3	12.4	8.8	9.5	6.2	3.7	5.0	---	---	---	---	---	---
4	11.8	8.7	9.1	7.3	3.1	4.1	---	---	---	10.7	3.6	7.7
5	9.9	8.5	9.2	4.4	3.0	3.6	---	---	---	10.1	4.0	8.4
6	11.5	8.8	9.7	3.5	2.8	3.1	---	---	---	9.1	3.5	4.9
7	9.9	9.1	9.5	3.4	2.1	2.5	---	---	---	9.0	2.9	3.9
8	10.0	8.5	9.4	3.2	1.9	2.4	---	---	---	8.2	2.5	3.3
9	8.8	8.2	8.5	3.2	1.7	2.1	---	---	---	4.7	1.5	2.3
10	9.2	8.3	8.7	6.4	1.8	2.1	---	---	---	2.0	.6	1.2
11	8.8	8.0	8.4	2.2	1.6	1.8	---	---	---	8.5	.5	2.1
12	---	---	---	10.0	1.8	6.4	10.1	7.8	9.0	4.2	.0	.9
13	8.7	8.0	8.4	10.5	7.0	9.0	9.1	8.5	8.7	.5	.0	.0
14	10.5	7.8	8.2	---	---	---	9.6	8.6	9.1	5.9	.0	.3
15	8.2	7.4	7.7	---	---	---	9.7	8.7	9.3	6.7	.0	1.8
16	8.2	7.4	7.7	---	---	---	9.4	6.9	8.3	7.2	.0	3.2
17	11.4	7.3	8.1	---	---	---	---	---	---	7.6	.8	4.4
18	11.4	6.9	8.3	---	---	---	---	---	---	7.7	.3	4.4
19	11.2	7.3	8.4	---	---	---	---	---	---	7.7	3.8	6.5
20	7.4	6.9	7.1	---	---	---	---	---	---	7.6	2.9	5.5
21	---	---	---	---	---	---	---	---	---	7.6	2.8	4.2
22	7.1	5.8	6.4	---	---	---	---	---	---	6.1	3.8	5.0
23	10.2	5.5	6.3	---	---	---	---	---	---	6.9	5.1	5.8
24	10.9	5.2	6.1	---	---	---	---	---	---	6.7	5.4	6.1
25	10.9	5.1	6.0	---	---	---	---	---	---	8.4	4.7	6.4
26	8.7	5.2	5.6	---	---	---	---	---	---	7.2	2.6	5.1
27	10.6	5.1	6.9	---	---	---	---	---	---	7.6	1.9	3.5
28	11.6	5.2	7.7	---	---	---	---	---	---	7.8	4.9	6.3
29	5.7	4.8	5.4	---	---	---	---	---	---	7.7	6.2	6.8
30	---	---	---	---	---	---	---	---	---	8.5	6.6	7.6
31	---	---	---	---	---	---	---	---	---	8.8	6.8	7.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	5.9	7.0	7.5	6.4	6.9	.1	.0	.1	6.2	2.8	4.3
2	6.1	4.4	5.3	6.4	2.8	5.8	.1	.0	.0	4.1	1.3	2.5
3	6.3	4.1	4.9	6.3	4.4	5.2	.3	.0	.1	3.3	.0	1.0
4	6.9	3.0	4.7	6.8	3.6	5.2	.1	.0	.1	1.7	.0	.5
5	6.7	1.7	2.5	7.5	3.6	5.9	.1	.0	.0	5.9	.0	2.1
6	8.4	.3	3.5	5.9	3.3	4.3	.1	.0	.0	5.5	3.4	4.8
7	.7	.2	.4	8.5	2.1	5.6	.1	.0	.0	9.0	4.3	5.7
8	1.6	.0	.2	7.3	1.1	4.2	.1	.0	.0	8.2	1.3	4.9
9	.6	.0	.1	5.8	1.2	2.8	.1	.0	.0	5.1	.8	1.5
10	.2	.0	.0	7.5	5.2	6.4	.4	.0	.1	3.4	.9	1.8
11	.3	.0	.1	6.9	1.8	5.5	.1	.0	.1	4.0	1.1	1.8
12	.7	.0	.2	6.8	2.0	4.3	.1	.0	.1	4.9	.5	1.0
13	1.8	.0	.2	8.2	2.5	5.6	2.1	.0	.2	1.4	.3	.4
14	.5	.0	.1	6.8	2.1	5.6	6.5	.0	1.7	1.5	.1	.3
15	.8	.0	.1	---	---	---	2.2	.0	.3	.5	.1	.2
16	.3	.0	.0	5.2	2.2	2.8	3.8	.0	.3	3.7	.1	.4
17	.7	.0	.1	4.7	1.9	3.2	.8	.0	.1	.3	.1	.2
18	.5	.0	.1	2.5	.5	1.3	6.3	.0	.9	2.4	.1	.2
19	.1	.0	.0	2.1	.0	.8	4.2	.0	.7	6.8	.2	3.8
20	2.6	.0	.6	6.3	.6	2.8	6.9	.0	1.7	5.8	.1	1.5
21	7.5	.0	1.1	1.5	.7	1.1	7.2	.0	5.2	5.8	.1	1.0
22	6.7	.0	3.5	7.1	.9	1.8	6.6	.2	4.9	4.3	.2	.7
23	6.6	.4	3.6	7.6	1.1	4.1	7.1	2.9	6.0	6.9	.1	1.9
24	6.5	.6	3.5	7.9	1.9	6.1	7.7	.2	4.0	6.7	.1	2.0
25	6.6	.5	3.1	7.8	3.0	6.4	4.3	1.1	2.0	4.8	.1	.9
26	6.9	1.3	4.0	7.5	5.1	6.3	1.3	.3	.8	6.5	.1	2.1
27	6.8	3.3	5.3	---	---	---	7.7	.3	2.1	.3	.1	.1
28	6.5	4.9	5.9	3.6	.5	1.4	7.6	.7	2.4	1.0	.1	.3
29	6.8	5.0	6.2	3.0	.3	1.2	7.1	.6	2.7	7.7	.2	3.4
30	7.8	5.8	6.8	1.9	.0	.3	6.5	3.2	5.7	7.9	.4	4.2
31	---	---	---	.4	.0	.1	---	---	---	---	---	---
MONTH	8.4	.0	2.4	---	---	---	---	---	---	9.0	.0	1.9

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	---	---	---	83	69	75	85	81	83	138	109	116
2	---	---	---	79	70	75	88	83	85	132	109	120
3	---	---	---	86	70	83	93	85	89	119	108	113
4	---	---	---	87	82	84	94	88	91	116	87	102
5	---	---	---	91	82	85	98	89	92	103	90	99
6	---	---	---	88	83	86	100	89	96	116	92	99
7	---	---	---	89	86	87	94	85	89	114	95	101
8	---	---	---	90	83	86	105	87	92	107	96	99
9	---	---	---	93	82	86	106	87	99	105	96	101
10	---	---	---	86	81	84	102	85	91	106	86	96
11	---	---	---	96	81	88	97	86	93	105	87	92
12	---	---	---	94	88	91	108	91	95	113	89	97
13	---	---	---	95	90	92	104	95	99	105	91	97
14	---	---	---	97	91	93	---	---	---	102	95	98
15	---	---	---	94	79	90	---	---	---	112	94	100
16	---	---	---	90	84	87	---	---	---	112	97	100
17	---	---	---	96	79	86	---	---	---	103	98	100
18	---	---	---	88	76	79	---	---	---	101	94	97
19	---	---	---	86	78	82	---	---	---	101	94	96
20	---	---	---	100	80	84	---	---	---	---	---	---
21	---	---	---	99	82	87	---	---	---	100	93	94
22	80	65	71	102	83	89	---	---	---	100	92	94
23	79	65	71	108	86	93	---	---	---	99	92	95
24	85	66	73	118	88	96	---	---	---	97	92	95
25	86	76	78	116	88	94	---	---	---	98	92	94
26	84	74	78	91	75	85	---	---	---	95	91	93
27	80	68	76	84	78	81	---	---	---	96	92	94
28	76	69	73	84	78	80	---	---	---	95	93	94
29	80	72	76	88	79	82	---	---	---	96	92	94
30	83	70	75	83	79	81	114	105	109	98	92	95
31	82	67	72	---	---	---	114	107	110	98	93	95
MONTH	---	---	---	118	69	86	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	104	92	94	117	104	110	90	78	84	---	---	---
2	96	92	93	112	103	108	86	76	82	---	---	---
3	106	92	94	114	98	105	83	72	77	---	---	---
4	99	92	95	113	99	105	89	71	74	117	108	112
5	97	90	93	118	101	108	96	80	85	133	106	117
6	97	90	92	125	108	115	85	71	78	139	102	121
7	97	90	93	122	106	115	86	69	76	138	109	122
8	94	90	92	127	101	112	96	64	73	127	102	113
9	94	89	90	117	106	111	---	---	---	115	85	103
10	97	89	92	120	96	109	111	89	99	108	97	103
11	98	93	95	114	99	106	106	92	98	114	94	102
12	---	---	---	101	88	93	114	94	100	115	94	106
13	96	93	94	102	81	90	97	90	92	115	100	106
14	99	94	96	118	88	99	99	89	93	112	93	101
15	98	93	96	114	90	102	101	92	96	104	91	97
16	99	94	96	109	96	102	118	89	103	98	84	92
17	99	93	96	102	94	98	---	---	---	100	90	94
18	98	94	96	103	90	96	---	---	---	101	92	96
19	100	96	97	105	92	99	---	---	---	107	88	98
20	101	95	98	103	93	96	---	---	---	120	98	108
21	---	---	---	109	90	100	---	---	---	120	64	98
22	104	96	99	104	93	100	---	---	---	96	73	88
23	105	97	100	100	90	95	---	---	---	91	74	82
24	115	100	105	114	95	103	---	---	---	99	77	88
25	113	100	106	114	90	106	---	---	---	114	60	99
26	118	102	108	111	93	102	---	---	---	114	60	92
27	122	108	113	104	88	95	---	---	---	107	80	98
28	117	105	109	98	88	92	---	---	---	102	75	85
29	122	105	110	92	82	88	---	---	---	90	75	81
30	---	---	---	---	---	---	---	---	---	100	85	92
31	---	---	---	91	80	86	---	---	---	113	88	96
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	116	85	103	108	90	98	108	79	98	98	51	79
2	117	78	106	101	81	92	102	24	85	94	30	71
3	122	61	104	107	81	93	101	37	80	132	56	88
4	102	81	92	109	96	102	88	29	73	116	53	93
5	109	90	97	118	90	103	117	19	79	109	52	81
6	108	70	98	117	66	98	90	12	50	75	54	65
7	108	84	95	121	89	103	96	32	69	111	58	83
8	115	94	104	137	36	103	112	23	68	136	94	104
9	124	88	112	115	66	95	117	15	83	117	66	97
10	124	110	116	113	82	97	123	12	79	120	46	99
11	121	95	114	117	81	97	113	3	28	141	48	112
12	124	90	110	108	46	95	114	34	73	142	95	112
13	106	63	91	104	40	83	93	22	71	140	91	113
14	98	17	84	106	64	80	100	49	75	114	50	82
15	99	49	80	---	---	---	123	50	90	106	72	98
16	102	61	93	111	65	87	94	49	86	122	54	91
17	100	74	95	102	36	73	100	34	75	100	53	84
18	103	90	96	114	21	78	98	43	81	104	53	82
19	108	92	99	120	18	97	94	54	77	98	68	83
20	105	56	93	111	77	95	101	76	85	109	80	95
21	116	90	100	102	66	93	96	76	85	111	88	99
22	100	83	90	135	91	108	107	77	88	116	76	97
23	112	69	90	116	38	95	100	80	86	107	65	92
24	110	80	95	100	79	88	122	88	102	136	74	100
25	106	88	94	100	83	91	132	84	100	---	---	---
26	102	80	91	109	78	93	162	60	92	---	---	---
27	113	89	99	158	61	98	107	38	91	---	---	---
28	109	92	100	127	48	97	109	65	90	---	---	---
29	98	87	92	131	58	93	92	34	73	123	80	100
30	108	84	97	137	49	89	78	55	70	107	87	97
31	---	---	---	109	17	81	---	---	---	---	---	---
MONTH	124	17	98	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	---	---	---	34	27	31	---	---	---	87	81	84
2	---	---	---	79	26	47	---	---	---	82	76	79
3	---	---	---	97	72	92	---	---	---	80	75	78
4	---	---	---	96	87	92	---	---	---	91	75	79
5	---	---	---	94	72	85	---	---	---	99	85	92
6	---	---	---	96	80	87	---	---	---	107	84	91
7	---	---	---	98	78	95	---	---	---	105	74	84
8	---	---	---	98	70	85	---	---	---	82	71	77
9	---	---	---	97	62	74	---	---	---	78	69	73
10	---	---	---	96	59	76	---	---	---	87	68	77
11	---	---	---	102	50	75	---	---	---	94	77	87
12	---	---	---	103	50	84	---	---	---	102	86	89
13	---	---	---	102	44	53	---	---	---	103	83	93
14	---	---	---	62	38	42	---	---	---	100	93	96
15	---	---	---	104	45	76	---	---	---	99	90	94
16	---	---	---	102	49	86	---	---	---	100	89	96
17	---	---	---	---	---	---	---	---	---	100	96	98
18	---	---	---	---	---	---	---	---	---	99	94	96
19	---	---	---	---	---	---	---	---	---	98	87	92
20	---	---	---	---	---	---	---	---	---	97	88	92
21	---	---	---	---	---	---	---	---	---	94	91	93
22	82	68	74	---	---	---	---	---	---	93	88	90
23	82	68	73	---	---	---	---	---	---	94	85	88
24	90	68	77	---	---	---	---	---	---	94	80	91
25	90	76	83	---	---	---	---	---	---	93	90	92
26	85	46	70	---	---	---	---	---	---	94	89	91
27	76	41	53	---	---	---	---	---	---	93	86	91
28	77	38	48	---	---	---	---	---	---	93	84	89
29	42	36	38	---	---	---	---	---	---	89	85	87
30	39	31	36	---	---	---	105	91	98	95	82	85
31	45	30	33	---	---	---	94	86	89	94	78	86
MONTH	---	---	---	---	---	---	---	---	---	107	68	88

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	94	74	81	50	44	47	---	---	---	---	---	---
2	93	71	85	64	41	48	---	---	---	---	---	---
3	94	69	74	62	38	51	---	---	---	---	---	---
4	91	69	72	73	32	42	---	---	---	117	38	84
5	78	67	73	45	31	37	---	---	---	112	43	94
6	88	70	76	36	30	33	---	---	---	102	38	55
7	78	72	75	36	23	28	---	---	---	103	32	44
8	80	68	75	35	22	27	---	---	---	94	29	38
9	70	66	68	35	21	24	---	---	---	54	18	26
10	75	66	70	67	21	24	---	---	---	23	7	13
11	72	66	69	25	20	22	---	---	---	101	6	24
12	---	---	---	108	21	69	106	81	93	49	0	10
13	72	67	69	109	76	95	95	86	89	6	0	0
14	87	65	69	---	---	---	98	86	91	71	0	4
15	69	62	65	---	---	---	100	88	94	79	0	22
16	70	64	66	---	---	---	97	71	85	85	0	38
17	99	62	69	---	---	---	---	---	---	90	10	52
18	99	61	72	---	---	---	---	---	---	91	3	51
19	101	63	75	---	---	---	---	---	---	91	44	77
20	66	61	63	---	---	---	---	---	---	91	34	66
21	---	---	---	---	---	---	---	---	---	95	34	51
22	66	54	58	---	---	---	---	---	---	74	46	60
23	92	51	58	---	---	---	---	---	---	84	62	71
24	100	49	56	---	---	---	---	---	---	82	66	73
25	100	47	55	---	---	---	---	---	---	109	57	80
26	80	49	53	---	---	---	---	---	---	91	33	64
27	102	48	65	---	---	---	---	---	---	96	23	43
28	114	51	74	---	---	---	---	---	---	99	61	78
29	55	47	51	---	---	---	---	---	---	93	76	83
30	---	---	---	---	---	---	---	---	---	99	78	90
31	---	---	---	---	---	---	---	---	---	104	79	89
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	94	69	81	101	86	93	1	0	1	81	37	57
2	70	51	61	87	38	78	1	0	1	54	17	32
3	76	48	58	85	60	71	4	0	1	42	0	13
4	84	35	56	91	48	71	1	0	1	22	0	6
5	80	20	30	102	49	79	1	0	1	76	0	28
6	101	3	42	80	45	59	1	0	1	70	44	60
7	9	3	5	116	28	75	1	0	1	112	53	70
8	20	1	2	97	14	56	1	0	1	100	16	60
9	7	0	1	78	16	37	1	0	1	63	10	19
10	2	0	1	100	69	85	5	0	1	42	10	22
11	4	0	1	92	23	73	1	1	1	48	13	22
12	9	0	2	90	26	56	1	1	1	59	6	11
13	22	1	2	109	32	73	28	1	3	15	3	4
14	6	0	1	89	28	73	86	1	22	20	2	4
15	10	0	1	---	---	---	30	1	4	6	2	3
16	4	0	0	67	30	37	51	1	4	47	2	5
17	9	0	1	61	25	42	11	0	1	4	2	2
18	6	0	1	33	6	17	88	0	12	30	2	3
19	1	0	0	27	0	10	58	0	9	83	3	46
20	34	0	8	85	8	38	93	0	24	70	2	19
21	98	0	15	20	10	14	96	1	69	72	2	13
22	89	1	47	92	10	23	88	3	66	54	3	9
23	88	5	48	101	14	54	95	39	80	86	1	24
24	87	8	47	104	25	80	100	2	53	83	1	25
25	89	6	42	101	39	83	56	15	27	61	1	11
26	93	15	54	96	65	81	18	5	10	80	2	26
27	94	43	71	---	---	---	101	5	28	4	1	2
28	88	66	79	48	7	18	99	10	32	12	1	4
29	92	67	83	40	4	16	92	8	36	92	3	41
30	106	77	92	25	1	4	85	43	75	93	4	50
31	---	---	---	6	0	1	---	---	---	---	---	---
MONTH	106	0	31	---	---	---	---	---	---	112	0	23

0208455155 PAMLICO RIVER AT LIGHT 3

LOCATION.--Lat 35°21'24", long 76°38'48", Beaufort County, Hydrologic Unit 03020104, on U.S. Coast Guard Channel Light 3.

PERIOD OF RECORD.--Water years 1989 to 1992, 1999 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): May 1989 to September 1992, May 1999 current year.

pH (TOP AND BOTTOM): May 1999 to current year.

WATER TEMPERATURE (TOP): May 1989 to September 1992, May 1999 to current year.

WATER TEMPERATURE (BOTTOM): May 1999 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.

DISSOLVED OXYGEN (MID): May 1989 to September 1992.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (MID): May 1989 to September 1992.

INSTRUMENTATION.--Water-quality monitor from May 1989 to September 1992. Constituents monitored were: specific conductance, top and bottom, water temperature top, dissolved oxygen, top, mid-depth and bottom. Water-quality monitor with satellite telemetry from May 1999 to current year. Constituents monitored were the same as previous water years except, mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed on August 29, 1999 to prevent possible destruction of the equipment during Hurricane Dennis. It was reinstalled on September 9, 1999. The monitor was removed again on September 14, 1999 to prevent possible destruction during Hurricane Floyd. It was reinstalled on October 7, 1999. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	16.2, September 4, 1989, September 1, November 10, 18, 1990	0.3, October 11, 1999
SALINITY (BOTTOM), ppt	20.4, November 5, 1990	0.5, October 11, 27, 1999
pH (TOP), standard units	9.2, August 1, 1999	6.6, October 7, 1999
pH (BOTTOM), standard units	9.0, August 28, 1999	6.6, May 27, 2000
WATER TEMPERATURE (TOP), °C	33.3, August 20, 1990, July 9, 1991	1.2, January 29, 2000
WATER TEMPERATURE (BOTTOM), °C	32.6, August 1, 1999	1.3, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	21.2, January 30, 1992	<1.0, August 5-11, 23-25, 27-31, September 2-5, 1992
DISSOLVED OXYGEN (BOTTOM), mg/L	18.0, May 3, 1991	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	13.2, August 21	0.3, October 11
SALINITY (BOTTOM), ppt	18.1, August 12	0.5, October 11, 27
pH (TOP), standard units	9.0, November 11	6.6, October 7
pH (BOTTOM), standard units	8.8, March 2	6.6, May 27
WATER TEMPERATURE (TOP), °C	31.7, August 9	1.2, January 29
WATER TEMPERATURE (BOTTOM), °C	29.6, August 10	1.3, January 29
DISSOLVED OXYGEN (TOP), mg/L	15.8, February 24	4.7, August 24
DISSOLVED OXYGEN (BOTTOM), mg/L	14.9, February 24	<1.0, June 14, 15, August 6, 11, 12
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	162, July 27	63, August 24
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	139, February 24	<10, August 11, 12

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	.6	.7	4.9	3.9	4.5	4.6	4.3	4.4
2	---	---	---	4.6	.8	2.7	4.8	3.2	4.0	4.6	4.2	4.4
3	---	---	---	2.5	1.8	2.1	4.1	2.6	3.1	4.6	3.6	3.8
4	---	---	---	2.9	2.2	2.5	3.7	2.9	3.5	8.7	3.8	6.2
5	---	---	---	2.3	1.9	2.1	4.1	2.9	3.3	8.2	5.6	6.4
6	---	---	---	2.2	1.9	2.1	4.3	3.4	3.8	6.9	5.9	6.4
7	---	---	---	2.2	2.0	2.1	5.2	3.8	4.5	6.7	5.7	6.3
8	1.1	.7	.9	2.4	2.1	2.2	4.8	3.8	4.2	6.5	5.7	6.1
9	1.1	.6	.8	2.3	2.0	2.1	4.0	3.6	3.8	6.4	5.8	6.2
10	.9	.5	.8	2.3	1.8	2.0	6.4	3.6	4.8	6.9	6.0	6.4
11	.6	.3	.5	2.3	1.6	2.0	6.4	5.2	5.6	6.8	6.4	6.6
12	1.1	.6	.8	3.2	1.6	2.4	5.8	5.6	5.7	6.7	6.5	6.6
13	1.6	.8	1.3	2.9	2.2	2.5	5.8	5.6	5.7	6.7	6.5	6.6
14	1.7	1.0	1.3	2.5	2.2	2.4	6.0	5.6	5.7	6.7	6.3	6.6
15	3.1	1.0	2.1	3.6	2.3	2.8	5.8	5.7	5.7	6.7	6.3	6.6
16	2.7	2.0	2.4	4.2	3.2	3.5	6.5	5.8	6.0	6.6	5.9	6.3
17	3.4	2.2	2.7	4.1	2.9	3.2	6.6	6.0	6.4	6.7	6.0	6.4
18	2.5	2.0	2.3	4.1	2.7	3.0	6.5	6.3	6.4	6.6	6.2	6.4
19	2.5	2.2	2.3	4.3	2.1	3.1	6.9	6.3	6.5	6.9	4.9	6.1
20	2.3	1.5	1.9	4.0	3.3	3.7	6.9	5.9	6.4	6.8	4.7	5.9
21	1.9	1.2	1.5	3.9	3.1	3.5	6.4	5.9	6.1	6.8	5.1	6.2
22	1.4	1.0	1.2	4.1	3.3	3.6	6.4	6.0	6.2	6.8	4.5	5.2
23	1.3	.9	1.0	4.1	3.4	3.6	6.1	5.3	5.7	6.6	5.1	5.7
24	1.4	.9	1.2	3.9	3.3	3.5	6.1	5.3	5.7	7.2	5.8	6.3
25	1.7	.5	.9	4.0	3.3	3.7	6.6	5.4	6.0	7.7	4.9	6.8
26	.8	.5	.6	4.3	3.7	4.0	6.1	4.9	5.4	6.9	4.9	6.1
27	1.0	.5	.7	4.3	3.8	4.0	5.9	5.1	5.7	6.7	5.7	6.2
28	1.1	.7	.9	4.0	3.8	3.9	5.7	5.0	5.4	6.0	4.7	5.2
29	.8	.4	.6	4.3	4.0	4.2	5.7	5.3	5.5	6.0	4.6	5.3
30	.9	.5	.7	4.5	3.9	4.1	5.4	4.8	5.0	6.9	4.4	5.2
31	.7	.5	.6	---	---	---	5.0	4.4	4.7	5.6	5.3	5.4
MONTH	---	---	---	4.6	.6	2.9	6.9	2.6	5.2	8.7	3.6	5.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.9	4.6	5.1	4.4	3.2	3.7	6.1	5.5	5.8	5.9	4.3	5.3
2	5.7	4.9	5.1	4.8	3.8	4.1	5.8	5.5	5.7	6.0	5.2	5.6
3	4.9	3.6	4.1	4.9	4.0	4.3	6.1	5.3	5.6	6.2	5.5	5.7
4	3.8	3.0	3.4	4.6	3.8	4.3	5.9	5.0	5.3	5.8	5.1	5.4
5	3.8	3.2	3.4	4.6	4.0	4.2	6.1	5.0	5.6	5.6	4.9	5.2
6	3.5	2.9	3.3	4.4	3.9	4.1	6.0	4.8	5.4	5.2	4.6	4.9
7	3.2	2.2	2.8	4.8	4.2	4.4	6.0	5.1	5.5	4.9	4.2	4.6
8	3.9	2.7	3.1	4.8	4.2	4.4	6.5	5.5	5.9	4.6	4.1	4.3
9	---	---	---	5.1	4.3	4.6	---	---	---	5.2	4.2	4.7
10	3.8	3.2	3.6	5.2	4.8	5.0	6.0	4.8	5.4	5.6	4.6	4.9
11	3.8	2.2	3.1	6.1	4.9	5.3	6.3	5.7	6.0	6.1	3.9	4.9
12	---	---	---	7.1	5.9	6.3	7.2	5.4	6.4	5.2	4.6	4.9
13	4.6	3.7	4.1	6.9	6.5	6.7	8.3	6.6	7.4	5.1	3.9	4.6
14	6.1	3.2	4.7	6.7	6.3	6.5	7.3	6.6	6.9	5.6	4.3	4.8
15	4.3	3.1	3.7	6.6	6.4	6.5	7.0	5.8	6.7	5.9	4.8	5.4
16	4.3	3.5	3.9	6.7	6.4	6.6	7.0	5.7	6.1	6.4	5.4	6.2
17	5.1	3.4	4.5	6.5	6.2	6.4	6.3	4.7	5.6	6.3	5.7	6.0
18	5.4	4.4	4.9	7.2	6.2	6.7	6.4	5.4	5.8	6.3	5.7	6.0
19	5.1	4.6	4.9	7.1	6.2	6.6	6.7	5.7	6.4	6.2	5.7	6.0
20	5.4	5.0	5.3	7.0	6.3	6.6	6.7	4.9	6.1	6.2	5.4	5.9
21	5.3	4.7	5.0	6.9	6.2	6.6	6.7	4.5	6.2	6.6	5.4	6.0
22	5.0	4.7	4.8	6.9	6.2	6.4	6.4	5.0	5.9	6.6	5.9	6.1
23	5.0	4.7	4.9	6.8	6.3	6.5	6.5	5.1	5.9	6.5	5.9	6.4
24	4.8	3.7	4.6	6.7	4.5	6.3	6.6	4.4	5.4	6.3	4.6	5.9
25	4.5	2.9	3.8	6.3	4.4	5.1	7.1	6.4	6.8	6.5	5.8	6.1
26	3.4	2.5	3.0	6.0	5.3	5.5	7.0	6.0	6.7	6.8	5.8	6.3
27	5.2	2.4	3.8	6.1	5.5	5.7	7.0	6.7	6.8	6.6	6.0	6.3
28	5.2	4.5	4.8	7.0	5.7	6.0	7.2	6.3	7.0	7.4	6.4	6.9
29	5.0	4.1	4.7	6.3	5.7	6.1	6.4	5.6	5.9	7.7	6.9	7.1
30	---	---	---	6.4	5.1	5.9	6.0	5.5	5.7	7.7	6.7	7.3
31	---	---	---	6.2	5.6	5.9	---	---	---	7.7	7.0	7.3
MONTH	---	---	---	7.2	3.2	5.6	---	---	---	7.7	3.9	5.7

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	7.2	5.7	6.7	---	---	---	10.2	9.7	9.9	12.6	11.5	12.1
2	6.6	5.5	6.1	---	---	---	10.0	9.3	9.7	11.7	11.0	11.5
3	7.1	5.4	6.0	---	---	---	10.0	9.2	9.5	11.5	9.1	10.6
4	7.5	6.4	6.8	---	---	---	9.3	8.1	8.6	10.6	9.7	10.3
5	7.2	6.7	7.0	---	---	---	8.6	6.6	7.4	10.6	8.9	10.0
6	8.1	6.7	7.2	11.4	10.6	10.9	6.6	4.9	5.8	11.7	8.6	10.6
7	7.8	7.1	7.4	11.5	10.7	11.2	7.0	4.3	5.7	11.0	10.0	10.5
8	7.3	6.3	6.7	11.5	10.4	11.0	7.5	6.1	6.8	10.0	9.7	9.9
9	7.1	6.4	6.8	11.5	10.9	11.2	8.6	5.6	7.4	10.1	9.7	9.9
10	7.4	6.7	7.2	11.3	10.8	11.0	8.9	7.1	7.7	10.0	8.5	9.2
11	7.4	6.7	7.2	11.6	10.9	11.3	8.0	6.8	7.2	9.9	9.3	9.6
12	7.4	5.8	6.8	11.9	10.9	11.5	8.0	7.5	7.7	10.0	8.4	9.2
13	7.2	6.5	7.0	12.0	11.4	11.8	8.2	7.5	7.9	9.3	7.3	8.4
14	8.2	7.0	7.5	11.9	11.2	11.7	9.0	7.3	7.8	8.8	7.8	8.2
15	8.9	7.6	8.0	11.9	11.6	11.8	10.6	8.2	9.5	7.9	6.4	7.3
16	9.6	8.4	8.9	11.7	11.1	11.4	12.0	9.5	10.4	7.7	6.1	6.9
17	9.9	9.0	9.4	11.8	10.7	11.4	11.9	10.9	11.4	6.2	4.3	5.5
18	9.9	9.0	9.4	11.1	10.2	10.6	12.4	11.1	11.7	9.8	4.4	7.4
19	9.9	9.4	9.7	11.3	10.1	10.5	12.7	11.8	12.3	9.6	7.7	8.8
20	9.9	9.6	9.8	11.8	10.7	11.2	13.0	12.4	12.8	8.6	8.0	8.3
21	10.1	9.7	9.9	11.9	11.1	11.4	13.2	12.8	13.0	8.1	7.6	7.8
22	11.0	9.6	10.3	12.2	11.8	12.0	13.1	12.6	12.7	8.1	6.8	7.6
23	10.9	10.0	10.5	12.6	11.7	12.2	12.9	12.6	12.7	8.8	7.6	8.1
24	10.9	10.6	10.8	12.2	11.4	11.7	13.1	12.2	12.7	8.2	7.5	7.9
25	10.9	10.6	10.7	12.0	11.5	11.9	13.0	12.8	12.9	7.7	7.1	7.4
26	10.9	10.6	10.7	12.0	10.9	11.3	13.0	12.7	12.8	8.4	7.3	7.8
27	11.0	10.6	10.7	11.5	10.9	11.1	12.8	12.2	12.4	9.2	8.4	8.9
28	11.0	10.6	10.7	11.5	10.6	10.9	12.4	12.0	12.2	9.2	7.9	8.7
29	---	---	---	10.9	10.2	10.6	12.6	12.0	12.3	9.6	8.4	9.1
30	---	---	---	10.7	9.8	10.3	13.1	12.4	12.7	9.8	8.5	8.9
31	---	---	---	10.9	9.7	10.2	12.6	11.8	12.2	---	---	---
MONTH	---	---	---	---	---	---	13.2	4.3	10.2	12.6	4.3	8.9

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	---	---	---	6.1	1.5	4.3	4.9	3.9	4.5	6.9	4.8	5.4
2	---	---	---	5.9	3.1	4.4	4.8	3.6	4.3	8.1	5.1	6.5
3	---	---	---	3.8	1.8	2.2	4.9	4.1	4.4	9.7	6.3	8.4
4	---	---	---	3.0	2.4	2.7	5.1	3.5	4.3	9.6	5.7	8.5
5	---	---	---	3.0	2.0	2.3	9.4	4.1	5.4	8.2	5.6	6.8
6	---	---	---	2.3	2.1	2.2	9.4	3.9	6.7	7.6	6.4	7.1
7	---	---	---	2.5	2.1	2.2	6.9	3.8	5.1	7.4	6.7	7.1
8	2.3	.7	1.1	2.9	2.2	2.5	6.7	4.5	5.4	7.7	6.7	7.3
9	1.4	.9	1.2	3.0	2.2	2.6	7.5	5.1	6.2	7.5	7.1	7.4
10	1.6	.6	1.0	2.5	2.0	2.2	7.4	5.7	6.5	7.6	6.3	7.0
11	3.8	.5	.8	2.5	2.1	2.3	6.4	5.6	5.8	6.9	6.5	6.7
12	6.7	.6	3.1	3.5	2.3	2.9	5.9	5.6	5.7	7.0	6.6	6.8
13	6.1	1.0	1.8	3.5	2.6	3.0	6.0	5.6	5.7	6.9	6.5	6.6
14	2.6	1.0	1.4	2.9	2.3	2.6	7.0	5.6	5.9	6.7	6.3	6.6
15	5.3	1.3	3.0	3.7	2.4	3.1	7.3	5.6	5.8	7.3	6.6	6.8
16	3.3	2.3	2.9	4.2	3.3	3.5	7.3	5.7	6.0	6.9	6.0	6.3
17	4.1	2.3	3.2	4.2	3.0	3.6	6.9	6.0	6.5	6.7	6.0	6.5
18	2.8	2.1	2.4	5.5	3.6	4.9	6.8	6.4	6.6	6.6	6.2	6.5
19	2.7	2.2	2.4	6.2	4.1	5.1	6.8	6.3	6.5	7.6	6.0	6.6
20	2.5	1.6	2.1	5.5	4.2	4.8	6.8	5.9	6.4	7.9	5.1	6.5
21	1.9	1.2	1.5	6.6	3.8	4.8	6.6	5.9	6.1	6.8	5.1	6.3
22	1.4	1.1	1.3	6.1	3.4	4.5	6.7	6.0	6.2	9.2	5.7	7.5
23	1.5	.9	1.1	4.7	3.4	4.1	6.3	5.4	5.9	9.1	5.8	8.0
24	1.5	.9	1.2	4.9	4.1	4.5	6.8	5.4	5.9	7.2	5.8	6.3
25	2.4	.8	1.4	4.7	4.1	4.5	6.5	5.4	6.0	7.7	6.1	6.8
26	2.2	.6	1.1	5.1	3.8	4.3	6.1	5.0	5.5	7.0	5.9	6.5
27	5.7	.5	1.9	4.7	3.8	4.1	6.6	5.2	5.8	6.7	5.7	6.2
28	1.7	.9	1.2	4.9	3.8	4.1	6.4	5.4	5.8	7.1	5.3	5.9
29	3.1	.7	1.1	4.8	4.1	4.3	7.5	5.5	6.1	8.0	5.2	6.1
30	5.6	.7	2.1	4.5	3.9	4.1	7.5	5.5	6.2	8.4	4.6	6.8
31	5.6	1.1	2.9	---	---	---	6.0	5.1	5.4	6.0	5.3	5.6
MONTH	---	---	---	6.6	1.5	3.6	9.4	3.5	5.8	9.7	4.6	6.8

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	6.1	4.8	5.2	5.8	3.9	4.8	5.9	5.6	5.7	7.4	5.8	6.6
2	5.7	4.9	5.1	5.3	4.0	4.4	5.9	5.6	5.7	6.0	5.4	5.7
3	5.3	3.8	4.6	4.8	4.1	4.4	6.0	5.3	5.6	6.6	5.5	5.9
4	4.5	3.3	3.9	10.4	4.0	5.3	6.2	4.8	5.2	6.5	5.3	5.7
5	4.2	3.2	3.5	4.6	4.0	4.3	6.1	4.8	5.2	7.0	4.6	5.9
6	9.9	3.0	4.8	4.4	3.9	4.1	6.4	4.7	5.4	8.4	4.6	5.5
7	6.8	2.9	4.3	9.7	4.2	6.0	6.4	5.0	5.8	8.4	4.2	4.8
8	9.0	3.1	4.6	6.0	4.4	4.8	6.0	5.0	5.5	7.3	3.7	4.5
9	---	---	---	8.8	4.5	5.2	5.1	3.6	4.5	6.5	3.9	4.4
10	5.2	3.5	4.2	7.2	5.1	5.6	5.9	4.3	4.9	5.1	4.1	4.5
11	9.1	3.7	6.1	7.1	5.0	5.9	6.9	5.0	5.8	6.3	4.2	5.2
12	---	---	---	7.1	5.8	6.3	7.2	6.1	6.6	6.2	4.8	5.2
13	8.3	5.1	6.6	6.8	6.4	6.6	8.3	6.6	7.6	6.1	4.9	5.2
14	9.1	4.9	7.0	6.6	6.4	6.5	7.5	6.6	7.0	8.3	4.5	5.5
15	8.8	3.6	5.2	6.5	6.4	6.4	7.1	6.1	6.8	9.3	5.4	6.4
16	8.8	4.3	6.6	6.6	6.3	6.4	7.1	6.0	6.5	7.8	5.7	6.8
17	6.3	3.8	4.8	6.3	6.1	6.2	8.0	5.7	7.1	6.5	5.7	6.1
18	7.6	4.8	5.7	7.0	6.0	6.5	7.5	5.5	6.0	6.8	5.7	6.1
19	6.6	4.8	5.1	7.0	6.0	6.5	6.7	5.7	6.4	6.9	5.7	6.1
20	5.8	5.0	5.3	6.9	6.1	6.6	7.8	6.3	6.9	7.1	6.0	6.3
21	5.7	4.7	5.1	6.7	6.1	6.4	7.7	6.2	7.0	8.4	5.9	6.8
22	5.3	4.7	4.9	6.7	6.1	6.2	6.8	5.8	6.1	7.2	5.9	6.3
23	5.3	4.8	5.0	6.5	6.1	6.4	7.9	5.9	6.6	6.6	6.0	6.4
24	5.3	4.4	4.9	6.5	5.8	6.4	9.0	5.5	7.4	7.2	5.9	6.2
25	6.9	4.3	5.0	6.5	5.4	6.1	8.1	6.4	6.8	9.3	6.1	6.6
26	7.1	4.3	6.2	5.7	5.2	5.3	7.0	6.4	6.8	9.3	6.0	7.3
27	7.3	5.1	6.4	7.9	5.2	5.7	6.9	6.7	6.8	10.2	6.3	7.9
28	7.6	4.5	5.3	6.7	5.3	5.9	7.4	6.8	7.0	10.1	6.5	7.6
29	5.4	4.7	5.0	6.5	5.6	5.8	7.0	5.9	6.3	7.8	6.9	7.2
30	---	---	---	6.1	5.3	5.8	7.3	5.5	5.8	7.8	6.7	7.4
31	---	---	---	5.9	5.3	5.6	---	---	---	7.9	7.1	7.5
MONTH	---	---	---	10.4	3.9	5.8	9.0	3.6	6.2	10.2	3.7	6.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	6.4	7.4	11.3	11.0	11.1	13.1	9.8	10.5	12.6	11.8	12.3
2	9.5	6.4	7.3	11.2	10.8	11.0	15.2	9.8	11.3	12.2	11.6	11.9
3	14.8	5.6	9.6	11.1	10.7	11.0	13.5	9.3	10.2	12.4	10.6	11.6
4	13.3	7.5	10.3	11.0	10.6	10.8	10.3	8.0	8.7	12.9	10.0	10.9
5	8.2	6.1	7.3	11.1	10.4	10.6	10.0	7.3	8.4	10.6	9.2	10.2
6	8.8	5.1	7.1	11.3	10.5	10.8	14.8	6.8	9.5	11.7	8.6	10.6
7	8.1	6.9	7.4	11.5	10.6	11.2	17.1	7.7	11.6	11.3	10.0	10.7
8	10.7	6.3	8.3	12.4	10.9	11.3	17.0	7.5	10.9	10.3	9.8	10.0
9	12.6	7.3	8.9	12.4	10.7	11.1	17.3	8.6	11.8	10.2	9.8	10.0
10	11.5	6.8	8.1	12.0	10.6	10.9	16.9	1.3	11.0	10.1	9.0	9.8
11	8.4	7.2	7.7	11.3	10.8	11.1	17.3	8.8	12.6	9.8	9.3	9.6
12	9.0	7.3	7.6	12.4	10.8	11.5	18.1	7.6	9.3	10.0	8.9	9.7
13	10.3	6.7	7.4	12.2	11.4	11.7	10.2	7.5	8.3	9.8	8.7	9.4
14	14.6	7.4	9.1	12.0	11.5	11.8	12.8	7.3	8.6	10.3	8.3	9.5
15	14.5	7.9	10.3	11.8	11.6	11.7	13.6	10.2	11.5	10.3	7.0	8.4
16	13.1	8.9	10.1	12.2	11.3	11.7	15.1	10.5	12.2	9.2	6.2	7.5
17	10.2	8.8	9.7	12.0	11.4	11.8	15.6	11.5	13.3	10.6	5.5	7.7
18	10.2	9.3	9.7	12.9	11.2	11.8	14.3	11.9	12.5	12.7	7.6	9.7
19	10.2	9.7	10.0	12.9	10.3	11.2	13.8	12.1	12.5	10.9	8.0	9.4
20	10.3	9.8	10.0	12.4	10.6	11.5	13.8	12.5	12.9	11.7	8.4	9.0
21	11.8	10.0	10.3	12.6	11.5	12.1	13.2	12.8	13.0	9.4	8.0	8.3
22	11.0	10.0	10.4	12.7	11.8	12.1	13.1	12.6	12.9	14.5	7.6	9.7
23	11.0	10.4	10.8	12.6	12.0	12.2	13.2	12.5	13.0	13.3	8.4	10.3
24	11.1	10.7	10.8	12.5	11.3	11.8	13.3	12.7	12.9	9.6	8.2	9.0
25	11.1	10.6	10.7	12.0	11.7	12.0	13.2	12.8	12.8	13.6	8.2	10.5
26	10.9	10.5	10.6	12.0	11.1	11.6	13.1	12.8	12.8	11.7	8.1	8.7
27	10.9	10.4	10.6	12.3	10.9	11.3	13.1	12.2	12.6	10.0	8.8	9.4
28	10.9	10.6	10.6	13.4	10.9	12.0	13.2	12.2	12.5	10.3	8.5	9.4
29	10.8	10.6	10.7	13.7	10.7	11.8	13.2	12.2	12.7	9.7	8.5	9.2
30	11.1	10.6	10.9	13.8	10.5	12.0	13.3	12.6	12.9	9.9	8.5	9.1
31	---	---	---	---	---	---	13.0	12.3	12.6	---	---	---
MONTH	14.8	5.1	9.3	---	---	---	18.1	1.3	11.6	14.5	5.5	9.7

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	---	---	---	7.3	7.0	7.2	7.7	7.4	7.5	8.4	8.0	8.1
2	---	---	---	7.3	7.2	7.2	8.0	7.5	7.7	8.5	8.1	8.3
3	---	---	---	7.4	7.2	7.3	8.4	7.6	7.9	8.6	8.1	8.4
4	---	---	---	7.8	7.4	7.5	8.2	7.8	8.0	8.5	7.3	7.9
5	---	---	---	8.3	7.4	7.6	8.3	8.0	8.2	7.9	7.3	7.7
6	---	---	---	8.1	7.4	7.6	8.4	7.9	8.1	8.1	7.6	7.7
7	---	---	---	7.7	7.5	7.6	8.2	7.7	8.0	7.9	7.6	7.8
8	7.0	6.7	6.8	8.4	7.5	7.7	8.4	7.7	8.1	8.3	7.6	7.9
9	6.9	6.7	6.8	8.5	7.7	7.9	8.7	7.9	8.3	8.1	7.7	7.9
10	7.5	6.8	7.0	7.9	7.7	7.7	8.5	7.5	8.1	8.1	7.5	7.7
11	7.1	6.8	6.9	9.0	7.7	8.0	8.0	7.5	7.9	7.8	7.5	7.6
12	7.2	6.9	7.0	8.1	7.8	7.9	8.3	7.9	8.1	8.4	7.6	7.9
13	7.4	7.1	7.2	8.5	7.7	7.9	8.1	7.9	8.0	8.1	7.7	7.9
14	7.3	7.1	7.2	8.1	7.6	7.8	8.0	7.6	7.9	7.9	7.7	7.8
15	7.7	7.2	7.4	7.9	7.6	7.7	8.1	7.5	7.8	8.4	7.7	7.9
16	7.5	7.1	7.3	7.8	7.6	7.7	8.0	7.4	7.7	7.9	7.7	7.8
17	7.5	7.2	7.3	8.0	7.4	7.6	8.1	7.5	7.6	7.9	7.7	7.8
18	7.4	7.3	7.4	8.7	7.4	7.9	8.1	7.5	7.7	7.9	7.7	7.8
19	8.0	7.3	7.5	8.6	7.5	7.9	7.8	7.5	7.6	8.1	7.7	7.9
20	8.0	7.4	7.5	8.5	7.5	7.9	7.9	7.5	7.7	8.0	7.6	7.7
21	7.4	7.2	7.3	8.8	7.9	8.3	7.9	7.6	7.7	7.6	7.6	7.6
22	7.3	7.2	7.3	8.7	7.8	8.2	7.8	7.5	7.6	7.9	7.5	7.6
23	7.5	7.3	7.4	8.6	7.7	8.0	8.1	7.6	7.8	7.7	7.5	7.6
24	7.3	7.2	7.2	8.6	7.8	8.2	8.0	7.7	7.9	7.6	7.5	7.6
25	7.4	7.0	7.2	8.7	7.8	8.2	7.9	7.6	7.8	7.6	7.5	7.5
26	7.2	6.8	7.0	8.1	7.6	7.8	8.0	7.7	7.9	7.6	7.5	7.5
27	7.1	6.8	7.0	7.7	7.4	7.6	7.9	7.7	7.8	7.7	7.6	7.6
28	7.0	6.9	7.0	7.9	7.4	7.7	8.1	7.7	7.9	7.9	7.6	7.7
29	7.4	6.9	7.0	8.0	7.5	7.7	8.0	7.8	7.9	7.9	7.7	7.8
30	7.5	6.9	7.1	7.7	7.4	7.5	8.1	7.8	8.0	7.8	7.6	7.7
31	7.1	6.9	7.0	---	---	---	8.2	7.9	8.1	7.6	7.5	7.6
MONTH	---	---	---	9.0	7.0	7.8	8.7	7.4	7.9	8.6	7.3	7.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.7	7.6	7.6	---	---	---	---	---	---	8.1	7.6	7.8
2	7.7	7.6	7.6	---	---	---	---	---	---	7.7	7.4	7.5
3	7.7	7.5	7.7	---	---	---	---	---	---	7.9	7.4	7.6
4	8.2	7.5	7.8	---	---	---	---	---	---	7.8	7.5	7.7
5	7.9	7.6	7.7	---	---	---	---	---	---	8.4	7.5	7.9
6	8.1	7.6	7.7	---	---	---	---	---	---	8.3	7.7	8.0
7	8.3	7.4	7.8	---	---	---	---	---	---	8.4	7.8	8.1
8	8.1	7.8	8.0	---	---	---	---	---	---	8.5	8.1	8.2
9	---	---	---	---	---	---	---	---	---	8.2	7.8	8.0
10	---	---	---	---	---	---	---	---	---	8.2	7.7	7.9
11	---	---	---	---	---	---	---	---	---	8.1	7.5	7.8
12	---	---	---	---	---	---	7.9	7.4	7.6	8.1	7.5	7.8
13	---	---	---	---	---	---	7.5	7.4	7.5	8.4	7.8	8.0
14	---	---	---	---	---	---	7.7	7.4	7.5	8.1	7.5	7.8
15	---	---	---	---	---	---	7.7	7.4	7.5	8.1	7.4	7.7
16	---	---	---	---	---	---	8.0	7.5	7.7	7.8	7.5	7.6
17	---	---	---	---	---	---	8.1	7.8	8.0	7.7	7.4	7.6
18	---	---	---	---	---	---	7.9	7.5	7.7	7.9	7.3	7.5
19	---	---	---	---	---	---	7.6	7.4	7.5	7.9	7.3	7.5
20	---	---	---	---	---	---	8.2	7.4	7.7	8.4	7.4	7.8
21	---	---	---	---	---	---	7.8	7.4	7.6	8.3	7.5	7.9
22	---	---	---	---	---	---	7.8	7.5	7.6	7.9	7.4	7.6
23	---	---	---	---	---	---	8.0	7.6	7.8	7.8	7.5	7.6
24	---	---	---	---	---	---	8.0	7.6	7.9	8.2	7.6	7.9
25	---	---	---	---	---	---	7.6	7.4	7.5	8.2	7.8	8.0
26	---	---	---	---	---	---	8.0	7.4	7.6	8.2	7.5	7.8
27	---	---	---	---	---	---	7.6	7.4	7.5	8.1	7.5	7.8
28	---	---	---	---	---	---	7.6	7.4	7.5	7.6	7.2	7.4
29	---	---	---	---	---	---	7.8	7.4	7.6	7.5	7.3	7.4
30	---	---	---	---	---	---	7.9	7.6	7.7	7.5	7.4	7.5
31	---	---	---	---	---	---	---	---	---	7.9	7.5	7.6
MONTH	---	---	---	---	---	---	---	---	---	8.5	7.2	7.8

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	8.4	7.7	8.1	8.6	8.2	8.4	8.3	8.0	8.1	7.7	7.5	7.6
2	8.5	8.1	8.3	8.3	7.9	8.1	8.5	8.1	8.3	8.0	7.6	7.7
3	8.4	8.1	8.2	8.3	7.8	8.1	8.4	8.1	8.3	7.8	7.6	7.7
4	8.3	7.9	8.1	8.1	7.9	8.0	8.3	7.9	8.2	7.9	7.5	7.7
5	8.4	8.1	8.3	8.3	7.9	8.1	8.5	8.1	8.3	8.1	7.4	7.7
6	8.3	7.9	8.1	8.3	7.9	8.1	8.4	8.1	8.3	7.8	7.4	7.6
7	8.1	7.5	7.8	8.2	8.0	8.1	8.2	7.9	8.0	7.6	7.3	7.4
8	8.3	7.9	8.1	8.3	8.0	8.1	8.1	7.8	7.9	7.7	7.3	7.5
9	8.2	8.0	8.1	8.1	7.9	8.0	8.3	7.8	7.9	7.8	7.5	7.6
10	8.2	8.0	8.1	8.1	7.8	7.9	8.4	7.5	8.0	7.9	7.5	7.7
11	8.2	7.9	8.1	8.2	7.7	7.9	8.4	7.9	8.2	8.0	7.5	7.8
12	8.3	7.8	8.1	8.0	7.8	8.0	8.1	7.9	8.0	8.0	7.6	7.8
13	8.2	7.9	8.0	7.9	7.7	7.8	8.2	7.8	8.0	8.3	7.4	7.9
14	8.2	7.7	8.0	7.8	7.6	7.7	7.9	7.6	7.8	8.4	7.9	8.1
15	8.1	7.6	7.9	8.0	7.6	7.7	8.2	7.6	7.9	8.3	8.0	8.1
16	7.8	7.5	7.7	8.0	7.7	7.8	7.9	7.6	7.8	8.6	8.2	8.3
17	7.9	7.5	7.7	8.3	7.6	7.9	8.1	7.7	7.9	8.5	8.1	8.3
18	8.0	7.6	7.7	8.3	8.0	8.2	8.1	7.8	7.9	8.4	7.7	8.0
19	7.9	7.5	7.7	8.2	7.9	8.1	8.0	7.5	7.7	8.1	7.7	7.8
20	8.0	7.5	7.7	8.1	7.7	8.0	8.1	7.6	7.9	8.2	7.6	7.9
21	8.1	7.6	7.9	8.0	7.8	7.9	8.1	7.9	8.0	8.3	7.9	8.1
22	7.8	7.4	7.6	8.1	7.8	7.9	8.0	7.7	7.8	8.4	8.1	8.3
23	8.5	7.4	7.8	8.1	7.8	7.9	7.8	7.6	7.7	8.2	7.9	8.1
24	7.9	7.3	7.7	7.9	7.7	7.8	8.1	7.4	7.9	8.6	7.8	8.2
25	8.1	7.6	7.8	7.8	7.7	7.7	7.9	7.8	7.8	8.5	8.0	8.2
26	8.0	7.6	7.8	7.9	7.7	7.8	8.1	7.7	7.9	8.1	7.9	8.0
27	8.2	7.7	7.9	8.6	7.7	8.1	8.2	7.9	8.0	8.3	7.9	8.0
28	8.1	7.8	8.0	8.4	8.1	8.3	8.1	7.9	8.0	8.3	7.9	8.1
29	8.1	7.8	8.0	8.5	8.3	8.4	8.0	7.8	7.9	8.0	7.7	7.9
30	8.6	7.9	8.2	8.5	8.1	8.4	7.9	7.8	7.8	8.1	7.8	7.9
31	---	---	---	8.3	8.0	8.1	7.8	7.6	7.7	---	---	---
MONTH	8.6	7.3	7.9	8.6	7.6	8.0	8.5	7.4	8.0	8.6	7.3	7.9

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	---	---	---	7.1	6.8	7.0	7.8	7.6	7.7	8.2	7.8	8.0
2	---	---	---	7.2	6.9	7.0	8.0	7.7	7.8	8.3	7.5	7.8
3	---	---	---	7.3	7.1	7.2	8.2	7.7	7.8	8.0	7.4	7.6
4	---	---	---	7.7	7.2	7.4	8.3	7.8	8.1	8.2	7.4	7.7
5	---	---	---	7.5	7.4	7.4	8.3	7.4	8.0	8.0	7.6	7.8
6	---	---	---	7.6	7.4	7.5	8.4	7.4	7.8	7.8	7.6	7.7
7	---	---	---	7.6	7.4	7.5	8.2	7.6	8.0	7.9	7.6	7.7
8	7.1	6.8	6.9	7.8	7.5	7.6	8.4	7.7	8.0	7.8	7.5	7.6
9	7.0	6.8	6.9	7.9	7.5	7.6	8.5	7.4	7.9	7.6	7.5	7.5
10	7.2	6.8	6.9	7.7	7.5	7.6	8.0	7.4	7.7	7.9	7.4	7.6
11	7.1	6.7	6.9	8.0	7.5	7.7	8.2	7.7	8.0	7.9	7.6	7.7
12	7.1	6.7	6.9	7.9	7.5	7.7	8.3	8.0	8.1	8.1	7.5	7.7
13	7.4	6.8	7.2	7.9	7.6	7.7	8.3	8.0	8.1	8.1	7.6	7.9
14	7.4	7.0	7.2	8.1	7.5	7.7	8.2	7.4	8.0	7.9	7.7	7.8
15	7.7	6.8	7.2	7.9	7.5	7.7	8.2	7.4	7.9	7.8	7.6	7.7
16	7.7	7.2	7.4	7.7	7.5	7.6	8.2	7.6	8.0	8.0	7.7	7.8
17	7.5	7.3	7.4	7.6	7.3	7.5	7.9	7.6	7.7	7.9	7.7	7.8
18	7.4	7.3	7.4	7.7	7.3	7.4	8.0	7.5	7.7	7.9	7.7	7.8
19	7.5	7.2	7.4	7.4	7.2	7.3	8.0	7.7	7.8	7.9	7.5	7.8
20	7.8	7.4	7.4	7.5	7.2	7.3	8.0	7.7	7.8	7.8	7.5	7.7
21	7.5	7.2	7.4	8.1	7.1	7.3	8.0	7.6	7.9	7.7	7.5	7.6
22	7.4	7.2	7.3	8.1	7.0	7.3	7.9	7.6	7.8	7.6	7.4	7.5
23	7.5	7.3	7.4	8.5	7.1	7.7	8.1	7.7	7.9	7.6	7.4	7.4
24	7.3	7.2	7.2	8.1	7.6	7.9	8.1	7.5	7.9	7.6	7.5	7.6
25	7.4	7.2	7.2	8.1	7.5	7.7	8.0	7.8	7.9	7.6	7.5	7.5
26	7.5	6.8	7.1	7.9	7.3	7.6	8.1	7.8	8.0	7.6	7.5	7.5
27	7.2	6.9	7.0	7.9	7.2	7.7	8.0	7.8	7.9	7.7	7.5	7.6
28	7.1	6.9	7.0	8.0	7.2	7.7	8.1	7.7	7.9	7.8	7.5	7.6
29	7.0	6.9	6.9	8.1	7.4	7.8	8.1	7.7	7.9	7.9	7.5	7.7
30	7.1	6.8	6.9	7.9	7.6	7.7	8.1	7.7	7.9	7.8	7.5	7.7
31	7.1	6.8	6.9	---	---	---	8.2	7.9	8.1	7.7	7.6	7.6
MONTH	---	---	---	8.5	6.8	7.5	8.5	7.4	7.9	8.3	7.4	7.7

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

PH, WATER; WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	7.7	7.6	7.7	8.7	8.1	8.5	8.1	7.6	7.8	7.8	7.0	7.4
2	7.7	7.6	7.7	8.8	8.3	8.6	8.0	7.7	7.8	7.8	7.4	7.5
3	7.8	7.6	7.7	8.6	8.5	8.6	8.1	7.5	7.8	7.9	7.0	7.4
4	7.9	7.6	7.7	8.6	6.8	8.2	7.9	7.7	7.8	7.7	6.9	7.5
5	7.9	7.7	7.8	8.6	8.4	8.5	7.7	7.4	7.6	7.8	6.9	7.4
6	7.9	7.3	7.6	8.6	8.3	8.5	7.9	7.4	7.6	8.0	6.8	7.4
7	8.2	7.6	7.9	8.6	6.8	7.9	7.8	7.3	7.5	8.2	6.8	7.7
8	8.1	7.1	7.6	8.4	7.4	8.1	8.0	7.5	7.7	8.3	6.8	7.9
9	---	---	---	8.4	7.0	8.0	7.8	7.4	7.5	8.0	7.3	7.8
10	8.2	7.5	7.7	7.9	7.2	7.6	7.7	7.3	7.4	8.0	7.5	7.7
11	8.4	7.1	7.7	8.2	7.3	7.8	7.6	7.3	7.5	7.7	6.8	7.4
12	---	---	---	7.7	7.3	7.6	7.7	7.4	7.5	7.9	6.9	7.6
13	7.5	7.1	7.3	8.0	7.4	7.7	7.5	7.4	7.4	8.1	7.3	7.7
14	7.5	7.1	7.3	8.1	7.6	7.8	7.6	7.4	7.5	8.0	6.8	7.5
15	7.6	7.2	7.4	8.3	7.8	8.0	7.5	7.3	7.4	7.8	6.7	7.3
16	7.9	7.1	7.4	8.2	8.0	8.1	7.8	7.2	7.5	7.6	6.9	7.3
17	7.9	7.3	7.7	8.2	7.9	8.0	8.0	7.0	7.4	7.7	7.2	7.5
18	7.7	7.1	7.5	8.0	7.7	7.8	7.8	7.1	7.5	7.7	7.0	7.4
19	8.0	7.2	7.7	7.9	7.7	7.8	7.6	7.3	7.4	7.7	7.2	7.3
20	8.1	7.5	7.8	7.7	7.5	7.6	8.0	7.2	7.4	7.7	7.2	7.4
21	8.3	7.8	8.0	7.7	7.5	7.6	7.6	7.1	7.3	8.2	6.9	7.5
22	8.5	7.7	8.1	7.7	7.5	7.6	7.7	7.3	7.5	7.6	7.1	7.4
23	8.4	8.0	8.2	7.7	7.5	7.6	8.0	7.1	7.6	7.6	7.3	7.4
24	8.7	7.7	8.2	8.0	7.6	7.8	7.9	6.8	7.5	7.8	7.2	7.5
25	8.7	6.9	8.1	8.1	7.3	7.7	7.6	6.9	7.4	8.0	7.1	7.6
26	8.6	6.9	7.4	8.4	7.9	8.2	7.7	7.3	7.4	7.9	6.8	7.4
27	8.2	7.1	7.4	8.3	7.2	8.1	7.5	7.3	7.4	7.8	6.6	7.2
28	8.4	7.2	8.0	8.1	7.4	7.9	7.5	7.4	7.5	7.7	6.8	7.2
29	8.5	8.0	8.3	7.9	7.6	7.8	7.7	7.1	7.4	7.5	7.2	7.4
30	---	---	---	8.0	7.6	7.8	7.9	7.0	7.6	7.5	7.4	7.4
31	---	---	---	8.0	7.7	7.8	---	---	---	7.6	7.4	7.5
MONTH	---	---	---	8.8	6.8	8.0	8.1	6.8	7.5	8.3	6.6	7.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	7.1	7.5	8.4	8.0	8.2	8.1	7.3	7.9	7.9	7.5	7.7
2	8.3	7.1	7.6	8.3	8.0	8.1	8.2	6.9	7.8	7.9	7.2	7.5
3	8.5	6.9	7.6	8.3	7.9	8.1	8.4	7.2	8.1	7.9	7.1	7.4
4	8.3	7.0	7.6	8.1	7.9	8.0	8.4	7.8	8.2	8.0	7.2	7.7
5	8.5	7.6	8.2	8.2	7.6	7.9	8.2	7.7	8.0	8.2	7.5	7.7
6	8.4	7.7	8.2	8.1	7.8	7.9	8.2	7.0	7.8	7.8	7.4	7.6
7	8.3	7.7	7.9	8.1	7.5	7.9	7.8	7.0	7.4	7.9	7.5	7.7
8	8.1	7.2	7.7	8.1	7.2	7.9	7.9	7.0	7.5	8.1	7.7	7.8
9	8.2	6.9	7.7	8.1	7.2	7.9	7.9	6.9	7.5	8.0	7.6	7.8
10	8.3	7.3	7.9	8.0	7.7	7.9	7.8	6.9	7.3	8.0	7.5	7.8
11	8.1	7.4	7.9	8.1	7.7	7.9	7.6	6.9	7.2	8.1	7.6	7.8
12	8.0	7.5	7.8	8.1	7.4	7.9	7.9	7.0	7.6	8.0	7.6	7.8
13	8.1	7.2	7.8	7.9	7.6	7.8	7.9	7.3	7.7	8.0	7.5	7.8
14	8.1	6.9	7.6	7.8	7.6	7.7	7.7	7.2	7.5	8.1	7.2	7.6
15	7.9	6.8	7.4	7.9	7.5	7.7	7.9	6.9	7.3	8.2	7.2	7.8
16	7.8	7.0	7.5	7.9	7.5	7.7	7.7	6.9	7.5	8.5	7.9	8.2
17	7.9	7.3	7.6	8.1	7.6	7.7	8.0	7.2	7.6	8.3	7.5	8.0
18	7.9	7.5	7.7	8.0	7.0	7.6	8.1	7.3	7.8	8.0	7.4	7.7
19	7.8	7.4	7.6	8.4	7.0	8.0	8.1	7.3	7.8	7.8	7.4	7.6
20	7.9	7.4	7.6	8.4	7.5	8.0	8.2	7.3	8.0	7.9	7.5	7.7
21	7.9	7.1	7.7	8.1	7.8	8.0	8.2	8.0	8.1	8.2	7.8	7.9
22	7.7	7.4	7.6	8.3	7.7	8.0	8.1	7.8	8.0	8.1	7.3	7.8
23	7.8	7.1	7.4	8.2	7.9	8.0	8.1	7.7	7.9	8.1	7.1	7.6
24	7.9	7.1	7.5	8.1	7.8	8.0	8.0	7.4	7.8	7.9	7.5	7.7
25	8.0	7.2	7.7	7.9	7.8	7.8	7.8	7.5	7.7	8.1	7.2	7.6
26	7.8	7.5	7.7	8.0	7.6	7.8	7.9	7.6	7.7	8.0	7.4	7.9
27	8.0	7.5	7.7	8.2	7.4	7.9	8.0	7.6	7.9	8.2	7.7	7.9
28	7.9	7.7	7.8	8.2	7.2	7.8	8.0	7.3	7.7	8.1	7.6	7.9
29	7.8	7.7	7.7	8.3	7.1	7.8	7.9	7.2	7.7	8.0	7.7	7.8
30	8.2	7.6	7.8	8.1	7.0	7.6	7.8	7.6	7.7	7.9	7.7	7.8
31	---	---	---	8.0	6.9	7.6	8.0	7.5	7.7	---	---	---
MONTH	8.5	6.8	7.7	8.4	6.9	7.9	8.4	6.9	7.7	8.5	7.1	7.8

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	---	---	---	18.0	16.7	17.2	12.9	10.8	11.8	8.1	6.8	7.3
2	---	---	---	17.8	17.1	17.5	10.8	9.8	10.3	8.8	7.3	8.0
3	---	---	---	17.2	15.8	16.4	10.8	8.9	9.7	10.3	8.0	9.3
4	---	---	---	15.9	14.7	15.5	10.4	9.2	9.8	10.7	9.3	9.9
5	---	---	---	16.6	14.9	15.4	11.1	9.3	10.3	10.9	9.9	10.4
6	---	---	---	15.9	14.4	15.2	12.6	10.8	11.6	10.6	9.4	9.8
7	---	---	---	15.8	15.2	15.5	11.6	10.9	11.2	10.1	9.1	9.8
8	21.0	19.9	20.4	15.7	14.7	15.1	11.2	9.7	10.6	10.1	9.1	9.5
9	22.0	20.1	20.9	16.1	14.4	14.9	11.2	9.4	10.3	10.3	9.2	9.6
10	22.2	20.7	21.4	15.6	14.8	15.2	11.9	10.2	11.0	10.6	9.9	10.2
11	22.5	21.3	21.6	17.5	15.3	16.0	11.6	10.9	11.2	10.8	10.1	10.5
12	21.9	21.1	21.6	16.4	15.8	16.1	11.8	10.4	10.9	11.0	10.0	10.5
13	21.4	20.9	21.1	16.5	15.2	15.9	11.7	10.8	11.1	10.9	10.1	10.5
14	21.2	20.7	20.9	16.5	15.8	16.1	12.5	11.4	12.1	10.4	9.0	9.6
15	21.0	19.8	20.4	16.0	15.0	15.5	12.9	11.8	12.2	9.8	7.9	8.8
16	21.1	20.1	20.5	15.1	13.9	14.3	11.8	11.3	11.6	8.1	7.5	7.9
17	21.1	20.6	20.8	13.9	12.9	13.4	11.8	10.7	11.1	8.0	6.7	7.5
18	21.1	20.6	20.9	13.7	11.6	12.8	11.2	10.5	10.7	6.7	6.0	6.4
19	21.4	20.0	20.5	13.8	11.8	13.0	11.1	10.8	10.9	6.1	5.2	5.7
20	21.2	19.8	20.2	15.1	13.1	13.9	12.1	11.0	11.4	6.0	5.1	5.4
21	20.1	19.1	19.6	15.2	13.6	14.5	11.9	11.4	11.7	5.1	4.2	4.7
22	19.1	18.5	18.8	16.4	14.3	14.9	11.7	11.1	11.5	4.3	3.4	3.7
23	18.7	17.7	18.3	16.6	14.8	15.3	11.1	10.4	10.7	3.8	3.2	3.5
24	17.7	16.6	17.1	17.1	15.4	15.9	10.4	9.5	10.1	3.8	3.5	3.6
25	17.0	15.9	16.2	17.6	15.8	16.6	9.5	8.1	8.7	4.1	2.8	3.6
26	16.8	15.2	15.9	16.9	16.3	16.5	8.1	6.4	7.2	3.1	2.3	2.8
27	16.1	15.3	15.7	16.7	16.3	16.5	7.6	6.5	7.2	2.7	2.3	2.5
28	16.1	15.3	15.6	16.3	15.6	16.0	7.4	6.3	7.0	2.3	1.7	2.0
29	17.3	15.1	15.7	15.6	14.8	15.3	7.2	6.7	7.0	3.1	1.2	1.8
30	17.0	15.5	16.1	14.8	12.9	13.9	7.1	6.3	6.7	2.8	1.6	2.0
31	18.0	16.0	16.5	---	---	---	7.7	6.8	7.2	3.0	2.3	2.6
MONTH	---	---	---	18.0	11.6	15.3	12.9	6.3	10.2	11.0	1.2	6.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	2.2	2.7	13.7	11.9	12.9	16.2	14.4	15.4	18.7	16.5	17.3
2	3.1	2.5	2.8	14.4	13.1	13.6	15.9	14.9	15.4	18.5	16.9	17.7
3	3.6	1.9	2.9	13.4	12.8	13.2	17.7	15.4	16.2	20.0	17.8	18.6
4	5.9	3.0	4.0	13.1	12.4	12.8	17.6	16.7	17.2	19.6	18.1	18.8
5	4.6	3.6	4.0	13.2	12.0	12.6	16.8	15.3	16.0	21.7	18.8	19.9
6	5.4	3.8	4.2	13.8	12.3	13.0	16.2	14.4	15.3	23.9	19.1	21.0
7	5.7	3.8	4.7	14.1	12.6	13.4	19.0	15.0	16.3	24.5	20.9	22.3
8	5.5	4.4	5.1	17.1	13.2	14.4	18.8	15.9	16.8	24.4	21.6	22.5
9	---	---	---	15.8	13.8	14.9	---	---	---	23.5	21.7	22.5
10	8.3	5.5	6.3	17.7	14.7	15.5	17.8	13.6	15.2	23.6	22.0	22.8
11	8.6	6.4	7.2	17.2	15.5	16.2	16.7	14.7	15.7	25.0	22.3	23.1
12	---	---	---	16.6	15.1	15.9	18.1	16.0	16.7	24.7	22.5	23.4
13	6.6	5.8	6.2	15.3	14.2	14.7	16.5	15.2	15.7	28.1	23.5	25.0
14	7.7	6.5	7.0	15.6	13.8	14.6	15.6	14.6	15.1	25.2	24.1	24.6
15	9.0	7.3	7.8	16.4	14.2	14.9	16.0	15.2	15.5	24.6	23.1	23.9
16	8.8	7.2	7.9	16.1	14.9	15.5	18.0	15.8	16.7	23.7	22.4	23.0
17	8.6	7.7	8.2	16.5	15.6	16.0	18.7	17.0	17.7	23.0	22.3	22.7
18	8.2	7.6	7.9	15.6	13.8	14.7	18.3	17.1	17.6	23.5	21.9	22.6
19	9.8	8.1	8.9	14.2	13.5	13.8	17.2	16.1	16.5	24.4	22.1	23.1
20	10.3	8.8	9.3	13.9	13.5	13.7	18.6	15.5	16.3	27.3	22.9	24.7
21	9.7	8.6	9.1	14.0	13.5	13.7	18.0	15.9	16.7	26.2	24.0	25.1
22	9.8	8.6	9.1	13.6	12.8	13.2	17.5	17.0	17.2	25.0	24.0	24.4
23	11.1	8.8	9.7	13.0	12.4	12.6	18.0	16.5	17.2	24.5	23.7	24.0
24	11.2	9.5	10.3	14.3	12.1	13.0	18.4	16.9	17.4	25.5	23.6	24.5
25	13.6	10.5	11.8	15.1	12.3	13.7	17.3	16.6	17.1	28.3	24.6	25.6
26	13.6	11.5	12.2	15.8	13.4	14.5	17.2	16.0	16.5	27.2	24.9	25.6
27	13.1	11.9	12.5	15.6	14.6	15.1	16.2	15.7	15.9	26.0	24.7	25.3
28	13.5	12.3	12.8	15.8	14.7	15.1	15.7	15.2	15.5	25.4	24.7	25.0
29	13.5	12.3	12.8	15.1	14.0	14.6	17.1	15.2	15.9	24.8	22.8	24.1
30	---	---	---	15.0	14.3	14.7	17.4	15.8	16.5	22.8	21.0	21.7
31	---	---	---	15.8	14.3	14.9	---	---	---	21.3	20.1	20.7
MONTH	---	---	---	17.7	11.9	14.2	---	---	---	28.3	16.5	22.8

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	25.5	20.6	22.3	28.4	27.2	27.7	29.1	27.1	27.9	26.8	25.8	26.3
2	27.4	22.5	24.0	29.9	26.9	27.8	29.1	27.9	28.3	28.0	26.4	26.9
3	25.1	23.7	24.4	27.6	26.9	27.3	28.4	27.8	28.1	27.9	26.7	27.2
4	24.0	23.3	23.6	27.7	26.0	26.9	28.0	27.1	27.5	27.3	26.9	27.0
5	23.7	23.3	23.5	29.5	26.3	27.4	29.4	26.5	27.6	27.0	25.7	26.4
6	23.9	23.2	23.5	28.6	27.4	27.8	29.6	26.9	27.8	25.8	24.2	25.0
7	23.4	22.4	22.9	28.1	27.2	27.6	30.0	27.3	28.5	24.8	23.8	24.3
8	24.6	22.1	23.2	29.5	26.9	27.8	30.9	28.0	29.1	25.5	23.9	24.5
9	25.5	22.7	23.6	27.6	26.9	27.3	31.7	28.5	29.6	25.3	24.0	24.6
10	25.5	23.5	24.4	27.9	26.0	27.0	30.6	28.3	29.4	25.9	23.8	24.7
11	27.2	24.0	25.3	28.9	26.8	27.6	30.0	28.8	29.4	26.8	24.2	25.2
12	28.1	24.7	26.1	28.3	27.2	27.8	28.9	28.1	28.5	27.0	25.0	25.8
13	28.0	25.8	26.8	27.2	26.7	27.0	28.7	27.3	27.9	28.6	25.4	26.5
14	30.7	26.3	27.5	27.6	26.6	27.0	27.4	26.0	26.6	28.4	26.6	27.2
15	28.5	26.9	27.6	28.2	26.6	26.9	29.6	25.7	27.0	27.0	26.1	26.6
16	28.2	27.1	27.5	29.3	26.4	27.6	28.0	26.3	27.2	26.3	24.5	25.3
17	28.1	26.8	27.4	30.6	26.6	27.9	28.2	26.7	27.3	24.6	23.3	23.8
18	28.8	27.0	27.6	31.0	27.8	28.8	28.3	26.6	27.3	23.6	22.6	23.2
19	29.2	27.1	27.9	29.2	28.0	28.5	27.9	26.5	27.1	23.9	22.8	23.4
20	28.1	27.2	27.6	28.5	27.5	28.0	27.0	26.4	26.7	24.7	23.2	23.8
21	28.5	26.9	27.5	27.7	26.9	27.3	26.5	25.7	26.1	25.1	23.9	24.4
22	28.6	26.9	27.6	29.0	26.6	27.4	26.8	25.5	25.9	25.0	24.5	24.7
23	30.3	26.8	28.1	28.3	27.0	27.5	26.2	25.3	25.7	24.5	24.2	24.3
24	29.2	27.0	28.0	27.4	26.6	27.1	27.8	25.4	26.1	26.1	23.9	24.8
25	28.7	27.5	28.1	26.7	26.3	26.5	26.4	25.7	26.0	25.8	24.8	25.2
26	28.8	27.6	28.0	26.4	26.1	26.2	28.5	25.6	26.3	25.0	23.2	24.2
27	29.0	27.5	28.1	28.1	26.0	26.5	26.7	25.6	26.1	23.2	22.3	22.7
28	28.9	27.6	28.1	28.6	26.4	27.0	26.6	25.7	26.1	22.4	21.2	21.8
29	28.4	27.6	28.0	28.4	26.7	27.5	26.3	25.6	25.9	21.8	21.1	21.5
30	28.5	27.3	27.8	28.4	26.9	27.5	26.0	25.5	25.7	21.7	20.9	21.2
31	---	---	---	27.8	26.7	27.3	26.3	25.4	25.8	---	---	---
MONTH	30.7	20.6	26.2	31.0	26.0	27.4	31.7	25.3	27.2	28.6	20.9	24.8

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	---	---	---	16.9	16.4	16.7	12.9	10.8	11.8	7.4	7.1	7.2
2	---	---	---	17.4	16.5	17.1	10.8	10.2	10.4	7.7	7.2	7.4
3	---	---	---	17.2	15.7	16.4	10.6	9.7	10.0	8.0	7.4	7.7
4	---	---	---	15.9	15.0	15.6	10.5	9.6	10.0	10.6	7.6	8.8
5	---	---	---	15.5	15.0	15.2	10.9	10.0	10.4	10.7	9.9	10.3
6	---	---	---	15.7	14.4	14.8	11.7	10.1	10.8	10.1	9.4	9.8
7	---	---	---	15.7	15.2	15.4	11.6	10.9	11.2	9.9	9.8	9.9
8	20.9	20.0	20.4	15.4	14.7	15.0	11.1	10.0	10.8	9.9	9.3	9.7
9	21.0	20.1	20.4	15.4	14.5	14.9	11.1	10.6	10.9	9.9	9.6	9.7
10	21.7	20.5	21.0	15.6	14.8	15.2	11.8	10.9	11.3	10.6	9.7	10.1
11	21.9	21.0	21.4	16.4	15.3	15.7	11.6	11.1	11.3	10.8	10.1	10.5
12	21.9	21.2	21.5	16.3	15.8	16.0	11.1	10.5	10.8	10.7	10.0	10.4
13	21.4	20.8	21.1	16.3	15.3	15.7	11.6	10.8	11.0	11.0	10.1	10.6
14	21.1	20.7	20.9	16.4	15.8	16.1	12.5	11.1	11.8	10.4	9.0	9.6
15	21.1	20.0	20.5	15.9	15.0	15.5	12.2	11.8	12.1	9.2	8.3	8.7
16	21.0	20.1	20.5	15.0	13.8	14.3	11.8	11.4	11.7	8.4	7.5	7.9
17	21.0	20.7	20.8	13.9	13.2	13.5	11.4	10.8	11.1	8.1	6.8	7.6
18	21.0	20.6	20.9	14.2	13.5	13.8	11.2	10.7	11.0	6.8	6.1	6.4
19	20.6	20.0	20.2	14.3	13.3	13.8	11.0	10.8	10.9	6.1	5.6	5.9
20	20.7	20.0	20.1	14.0	13.4	13.7	11.6	11.0	11.2	6.1	5.2	5.7
21	20.1	19.1	19.6	14.4	13.6	13.9	11.9	11.4	11.6	5.2	4.3	4.8
22	19.1	18.5	18.7	15.1	13.7	14.1	11.7	11.1	11.5	4.7	3.8	4.2
23	18.6	17.7	18.2	16.0	14.0	14.9	11.1	10.4	10.7	4.8	3.7	4.3
24	17.7	16.6	17.1	15.7	15.2	15.5	10.9	9.5	10.2	3.8	3.6	3.7
25	16.6	16.0	16.2	16.3	15.6	15.8	9.5	8.1	8.7	4.1	3.0	3.6
26	16.7	15.3	15.9	16.7	15.4	16.1	8.1	6.7	7.3	3.5	2.8	3.0
27	16.7	15.2	15.9	16.7	16.2	16.5	7.6	6.7	7.2	2.8	2.3	2.5
28	16.2	15.3	15.7	16.2	15.7	15.9	7.6	6.6	7.2	2.5	1.8	2.1
29	16.2	15.1	15.6	15.9	14.8	15.3	7.2	6.7	7.0	2.2	1.3	1.7
30	16.7	15.5	16.0	14.8	12.9	13.9	7.2	6.6	7.0	2.8	1.7	2.3
31	16.9	16.1	16.4	---	---	---	7.5	6.8	7.1	3.0	2.3	2.6
MONTH	---	---	---	17.4	12.9	15.2	12.9	6.6	10.2	11.0	1.3	6.7

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	3.0	2.3	2.7	13.4	12.4	12.9	16.1	14.3	15.1	17.5	15.8	16.5
2	3.1	2.5	2.8	14.3	13.0	13.5	15.9	15.0	15.4	18.4	16.9	17.5
3	3.6	2.6	3.1	13.5	12.9	13.1	17.7	15.4	16.2	19.3	17.5	18.1
4	3.9	3.2	3.4	13.1	11.3	12.7	17.6	16.8	17.1	19.8	17.9	18.7
5	4.5	3.6	4.0	13.1	12.0	12.5	16.8	15.5	16.0	20.5	18.8	19.5
6	4.8	3.8	4.1	13.6	12.4	12.9	16.2	14.6	15.4	20.9	18.9	19.5
7	5.2	4.2	4.7	13.8	11.8	12.9	16.6	15.4	15.7	22.8	19.9	21.0
8	5.5	4.6	4.9	13.9	12.9	13.4	18.8	15.9	16.8	23.7	20.0	21.9
9	---	---	---	15.5	13.2	14.4	17.2	14.8	15.4	23.5	21.3	22.3
10	6.3	5.4	5.6	15.3	14.2	14.8	15.6	13.9	14.7	23.5	21.9	22.7
11	7.2	5.5	6.1	16.9	14.4	15.6	16.5	14.7	15.6	23.0	22.0	22.4
12	---	---	---	16.5	15.1	15.9	17.4	16.0	16.4	24.1	22.1	23.1
13	6.2	5.3	5.8	15.2	14.1	14.7	16.5	15.1	15.7	24.5	23.5	23.8
14	7.4	5.6	6.3	15.0	13.8	14.3	15.6	14.6	15.1	24.8	23.1	24.1
15	7.6	6.4	7.2	15.6	14.0	14.6	16.0	15.2	15.5	24.1	22.7	23.6
16	8.4	6.3	7.2	15.9	14.9	15.5	17.5	15.7	16.2	23.4	22.6	23.1
17	8.5	7.6	8.1	16.5	15.6	16.0	17.7	15.7	16.6	23.0	22.3	22.7
18	8.0	7.1	7.6	15.6	13.8	14.7	18.2	16.0	17.5	23.4	22.0	22.5
19	9.4	7.8	8.7	14.2	13.5	13.8	17.1	16.1	16.5	23.9	22.0	22.9
20	9.6	8.8	9.2	13.9	13.5	13.6	16.4	15.6	15.9	23.7	23.0	23.2
21	9.7	9.0	9.3	14.0	13.5	13.7	17.7	15.8	16.5	25.9	22.8	24.2
22	9.6	8.6	9.1	13.6	12.8	13.2	17.4	16.9	17.1	24.8	23.7	24.2
23	9.5	8.9	9.1	13.0	12.4	12.7	17.9	16.5	17.0	24.4	23.7	24.0
24	10.6	9.1	9.7	14.1	12.2	12.8	17.9	16.7	17.2	25.1	23.6	24.1
25	10.8	9.2	10.2	13.9	13.0	13.3	17.2	16.6	17.0	25.8	24.0	24.9
26	11.1	9.2	9.8	15.2	13.4	14.2	16.9	16.0	16.3	25.7	24.1	25.0
27	12.2	9.2	10.1	15.6	13.5	14.9	16.2	15.7	15.8	25.7	24.0	25.0
28	13.0	10.2	12.2	15.5	14.7	15.0	15.7	15.3	15.5	25.3	24.4	24.9
29	13.1	12.2	12.6	15.1	14.0	14.7	16.3	15.2	15.5	24.8	22.8	24.0
30	---	---	---	15.0	14.6	14.8	17.1	15.3	16.3	22.8	21.0	21.6
31	---	---	---	15.8	14.4	14.9	---	---	---	21.2	20.1	20.5
MONTH	---	---	---	16.9	11.3	14.1	18.8	13.9	16.1	25.9	15.8	22.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.2	20.8	21.0	28.2	27.2	27.6	28.6	27.1	27.7	26.5	25.9	26.1
2	23.0	20.9	21.9	28.3	26.9	27.4	28.4	26.7	27.8	27.4	25.9	26.3
3	24.8	21.1	22.6	27.6	26.6	27.2	28.2	27.3	28.0	27.5	26.0	26.6
4	23.8	21.7	23.0	27.6	26.0	26.9	27.9	27.1	27.5	27.3	26.4	26.9
5	23.6	23.2	23.4	28.4	26.2	27.0	27.2	26.7	26.9	27.0	25.7	26.4
6	23.9	23.2	23.5	28.2	27.1	27.5	27.5	26.8	27.2	25.8	24.2	25.0
7	23.3	22.5	22.8	28.1	27.1	27.5	28.5	26.9	27.3	24.7	23.8	24.3
8	23.1	22.3	22.8	28.0	26.9	27.3	28.6	27.1	28.0	24.9	23.9	24.2
9	23.4	22.5	23.1	27.6	26.9	27.3	29.3	27.3	28.3	24.9	24.0	24.4
10	24.4	23.0	23.8	27.9	26.0	27.0	29.6	27.5	28.5	25.3	24.3	24.6
11	25.8	23.8	24.5	28.4	26.8	27.4	29.2	27.5	28.3	26.3	24.3	25.0
12	25.6	24.6	25.1	28.3	27.2	27.6	28.9	27.1	28.4	26.4	25.1	25.6
13	27.4	25.3	26.2	27.2	26.8	27.0	28.5	27.4	27.8	26.3	25.6	25.9
14	26.9	23.3	25.9	27.2	26.8	27.0	27.5	26.0	26.7	26.6	25.9	26.1
15	27.2	23.5	25.9	27.2	26.5	26.8	27.6	26.4	26.9	26.9	25.9	26.3
16	28.0	24.8	26.7	28.0	26.5	26.9	27.9	26.4	27.2	26.3	24.6	25.4
17	28.1	26.7	27.3	28.4	27.0	27.3	27.6	26.8	27.3	24.8	23.2	24.0
18	28.7	26.9	27.6	28.3	26.9	27.5	27.9	26.8	27.2	24.9	23.3	23.8
19	28.9	27.0	27.7	29.1	27.0	28.2	27.5	26.5	27.0	23.8	22.9	23.5
20	28.0	27.1	27.5	28.5	27.5	28.0	27.0	26.4	26.7	24.3	23.2	23.7
21	28.0	26.3	27.2	28.0	27.1	27.6	26.4	25.7	26.1	24.8	23.9	24.2
22	28.5	26.8	27.5	28.4	26.6	27.2	26.3	25.0	25.6	24.9	23.8	24.4
23	28.0	26.8	27.2	28.0	27.0	27.4	26.0	25.5	25.7	24.7	23.8	24.2
24	29.1	26.9	27.6	27.6	26.7	27.1	26.5	25.4	25.6	24.5	23.7	24.0
25	28.6	27.5	28.0	26.8	26.2	26.5	26.1	25.6	25.9	25.0	23.9	24.5
26	28.8	27.6	27.9	26.4	26.1	26.3	26.1	25.5	25.7	25.0	23.2	24.2
27	28.9	27.5	28.1	26.6	26.0	26.2	26.2	25.5	26.0	23.2	22.3	22.7
28	28.9	27.6	28.1	26.9	26.2	26.5	26.2	25.6	25.9	22.5	21.4	22.1
29	28.3	27.6	28.0	27.8	26.3	27.0	26.1	25.5	25.9	21.8	21.2	21.6
30	28.4	27.3	27.7	27.7	26.4	27.0	25.9	25.5	25.6	21.7	20.9	21.3
31	---	---	---	27.8	26.4	27.2	26.3	25.3	25.8	---	---	---
MONTH	29.1	20.8	25.7	29.1	26.0	27.2	29.6	25.0	26.9	27.5	20.9	24.6

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	9.3	9.6	11.3	10.4	10.9	---	---	---
2	---	---	---	9.9	7.1	8.6	12.4	11.1	11.6	---	---	---
3	---	---	---	9.5	8.5	9.1	13.8	11.8	12.6	---	---	---
4	---	---	---	10.2	9.2	9.6	13.0	12.3	12.7	---	---	---
5	---	---	---	11.2	9.7	10.1	13.5	12.6	13.0	---	---	---
6	---	---	---	11.1	9.9	10.4	13.3	12.4	12.8	---	---	---
7	---	---	---	10.6	10.0	10.3	12.8	11.8	12.3	---	---	---
8	---	---	---	11.7	10.1	10.6	13.6	11.7	12.5	---	---	---
9	---	---	---	12.0	10.6	11.1	14.3	12.6	13.3	---	---	---
10	---	---	---	11.0	10.5	10.7	13.6	10.8	12.3	---	---	---
11	---	---	---	12.8	10.2	10.8	12.2	10.8	11.7	---	---	---
12	---	---	---	10.8	10.1	10.4	12.8	11.4	12.0	---	---	---
13	---	---	---	---	---	---	12.5	11.5	11.8	10.7	9.7	10.2
14	---	---	---	---	---	---	12.1	11.1	11.6	10.4	9.9	10.2
15	---	---	---	---	---	---	11.8	10.6	11.2	12.6	10.0	10.7
16	---	---	---	---	---	---	11.7	10.1	11.1	11.2	10.4	10.8
17	---	---	---	---	---	---	11.9	10.1	10.7	11.2	10.5	10.9
18	---	---	---	12.9	9.2	10.6	11.6	10.1	10.6	11.4	10.9	11.1
19	---	---	---	12.4	9.6	10.7	10.8	10.3	10.6	12.1	10.9	11.5
20	---	---	---	12.1	9.7	10.7	11.7	10.1	10.7	12.0	11.0	11.5
21	---	---	---	13.2	10.8	11.6	11.4	10.2	10.7	11.7	11.2	11.5
22	8.3	7.7	8.0	13.1	10.3	11.2	10.9	10.0	10.3	12.7	11.5	12.0
23	8.8	8.2	8.4	12.7	10.2	10.8	11.4	10.0	10.6	12.4	11.6	12.2
24	8.4	8.1	8.3	12.2	10.4	11.1	---	---	---	12.3	11.9	12.1
25	9.0	8.3	8.6	12.4	10.2	11.1	---	---	---	12.3	11.6	11.9
26	9.0	8.2	8.6	10.8	9.8	10.2	---	---	---	12.4	12.0	12.2
27	9.1	8.4	8.7	10.2	9.4	9.9	---	---	---	12.9	12.3	12.6
28	9.0	8.7	8.8	10.6	9.5	10.1	---	---	---	13.7	12.7	13.2
29	10.0	8.6	9.0	11.1	9.9	10.4	---	---	---	14.0	13.1	13.5
30	10.1	8.8	9.2	10.7	10.1	10.4	---	---	---	13.8	12.8	13.5
31	9.7	8.9	9.2	---	---	---	---	---	---	13.4	13.0	13.2
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.7	13.1	13.5	13.3	12.5	12.9	8.2	7.3	7.9	---	---	---
2	13.7	13.3	13.5	12.6	12.0	12.3	7.9	7.0	7.5	---	---	---
3	14.0	13.5	13.8	12.2	11.5	11.8	8.0	6.7	7.3	---	---	---
4	14.8	13.5	14.0	12.1	11.6	11.8	7.9	6.8	7.3	9.0	8.4	8.8
5	14.2	13.6	13.9	12.1	11.4	11.7	8.5	7.7	8.2	10.2	8.1	9.0
6	14.2	13.4	13.7	12.0	11.6	11.7	8.2	7.4	7.8	9.7	8.4	9.0
7	14.9	13.3	14.1	11.9	11.2	11.6	7.9	6.8	7.4	9.6	8.4	9.0
8	14.6	14.1	14.3	11.7	10.3	11.2	8.1	6.5	7.2	9.2	8.4	8.8
9	---	---	---	11.4	10.1	10.9	---	---	---	8.6	7.7	8.1
10	15.1	13.4	14.0	11.1	9.4	10.2	9.5	8.6	8.9	8.3	7.4	7.9
11	14.3	13.5	13.8	11.0	9.1	10.2	9.6	7.9	8.9	8.9	7.2	7.9
12	---	---	---	9.7	8.4	9.2	10.2	8.7	9.3	8.9	7.8	8.3
13	13.0	11.9	12.3	10.2	8.7	9.4	9.5	8.9	9.2	9.4	8.0	8.6
14	12.8	11.3	12.1	10.6	9.3	9.8	10.0	9.3	9.7	9.0	7.8	8.4
15	12.6	11.6	12.0	10.8	9.5	10.1	10.3	9.5	9.8	9.0	7.8	8.4
16	14.0	11.9	12.6	10.4	9.4	9.9	10.9	9.6	10.3	8.9	7.8	8.4
17	12.8	11.9	12.3	10.0	8.9	9.4	11.4	10.4	10.9	9.0	7.9	8.5
18	12.6	11.7	12.0	9.5	8.6	9.0	10.7	9.7	10.2	9.1	7.4	8.4
19	13.0	11.6	12.1	10.0	9.0	9.3	10.0	9.6	9.8	9.3	7.2	8.2
20	13.8	11.7	12.3	9.3	8.9	9.1	11.6	9.3	10.3	10.3	7.7	8.8
21	13.3	12.0	12.5	9.6	8.6	9.2	10.7	9.6	10.1	---	---	---
22	14.0	12.0	12.7	9.6	8.9	9.2	10.6	9.8	10.0	---	---	---
23	14.8	12.4	13.5	9.4	8.8	9.1	11.2	9.9	10.6	---	---	---
24	15.8	13.0	14.1	11.3	8.7	9.5	11.4	10.0	10.7	---	---	---
25	15.3	13.9	14.4	11.2	9.3	10.3	---	---	---	---	---	---
26	14.8	13.3	14.1	10.1	8.8	9.6	---	---	---	---	---	---
27	14.0	11.8	13.0	9.7	8.3	8.9	---	---	---	8.6	7.2	7.9
28	12.6	11.2	11.8	9.5	8.3	8.9	---	---	---	7.2	6.0	6.6
29	13.0	11.5	12.2	9.0	8.2	8.6	---	---	---	7.2	6.4	6.9
30	---	---	---	9.0	8.0	8.5	---	---	---	7.9	7.1	7.6
31	---	---	---	8.7	7.8	8.2	---	---	---	9.1	7.8	8.3
MONTH	---	---	---	13.3	7.8	10.0	---	---	---	---	---	---

02084551555 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	11.2	6.4	9.6	---	---	---	8.0	6.5	7.1	7.4	6.2	6.8
2	11.4	9.3	10.0	---	---	---	8.5	6.9	7.5	8.5	6.5	7.2
3	9.7	8.6	9.1	---	---	---	8.1	6.8	7.4	7.7	6.2	6.9
4	9.0	7.7	8.4	---	---	---	7.6	6.5	7.2	7.0	5.8	6.4
5	9.6	8.3	8.9	---	---	---	9.3	6.6	8.0	7.3	5.2	6.0
6	9.1	8.2	8.6	---	---	---	8.8	7.4	8.3	6.5	5.3	6.0
7	9.2	7.6	8.2	---	---	---	8.4	7.0	7.7	7.6	5.8	6.8
8	10.0	8.3	9.0	9.0	7.2	8.0	8.2	6.5	7.0	8.7	6.9	7.7
9	9.7	8.6	9.1	7.8	6.7	7.2	8.8	6.1	7.0	8.6	7.3	7.9
10	9.6	8.8	9.2	7.9	6.4	7.1	8.9	5.8	7.4	8.7	7.3	7.9
11	9.9	8.8	9.3	9.1	6.7	7.5	8.6	6.6	7.8	8.8	6.5	7.4
12	10.1	8.6	9.3	7.9	6.8	7.5	7.5	6.4	6.9	9.0	7.0	7.9
13	9.4	7.4	8.3	8.2	6.2	7.2	7.8	6.3	6.7	9.4	6.7	8.1
14	8.6	6.9	7.6	7.6	6.4	7.2	7.4	6.1	6.7	9.4	7.5	8.3
15	8.4	6.8	7.5	8.9	6.6	7.3	9.4	6.2	7.5	8.4	7.1	7.7
16	7.6	6.6	7.2	8.2	6.3	7.5	7.6	6.2	6.8	9.1	7.2	8.0
17	7.5	6.3	6.8	11.5	6.6	8.1	8.4	6.1	7.1	9.7	7.8	8.5
18	7.4	6.1	6.8	9.2	7.3	8.5	7.8	6.3	7.0	8.9	6.7	7.6
19	7.9	6.1	6.8	8.9	6.5	7.7	7.4	4.9	6.2	8.5	6.6	7.0
20	7.5	6.2	6.7	7.8	6.1	7.1	7.6	5.3	6.5	8.9	6.7	7.8
21	---	---	---	7.7	6.3	7.1	7.4	5.9	6.6	9.6	7.8	8.6
22	---	---	---	8.2	6.6	7.2	6.9	5.8	6.4	9.2	8.5	8.9
23	10.7	5.7	7.2	8.7	6.6	7.6	6.5	5.2	5.9	8.7	7.5	8.2
24	7.0	4.9	6.1	7.8	6.6	7.0	8.2	4.7	6.6	10.8	7.4	8.6
25	7.7	5.0	6.4	7.3	6.2	6.7	6.9	6.0	6.4	9.0	7.5	8.3
26	7.3	6.0	6.6	8.4	6.5	7.3	8.5	5.8	7.0	7.5	6.7	7.1
27	7.1	6.0	6.5	11.9	6.9	8.2	7.8	6.9	7.4	8.6	6.8	7.4
28	6.7	5.8	6.2	9.2	7.4	8.4	7.6	6.4	6.9	9.7	7.5	8.4
29	6.9	6.0	6.5	8.5	7.6	7.9	6.7	5.5	6.2	8.5	7.4	8.1
30	8.3	6.1	6.9	8.8	6.6	7.6	6.4	5.5	5.9	9.2	7.5	8.2
31	---	---	---	7.5	6.1	6.8	7.4	5.5	6.5	---	---	---
MONTH	---	---	---	---	---	---	9.4	4.7	7.0	10.8	5.2	7.7

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	5.7	6.9	11.5	10.5	11.0	---	---	---
2	---	---	---	8.3	5.3	7.1	12.2	11.2	11.7	---	---	---
3	---	---	---	9.7	8.2	9.3	12.7	11.5	11.9	---	---	---
4	---	---	---	10.5	9.4	9.8	---	---	---	---	---	---
5	---	---	---	10.5	9.5	9.9	---	---	---	---	---	---
6	---	---	---	10.9	10.0	10.3	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	8.7	6.7	7.8	---	---	---	---	---	---	---	---	---
9	8.6	7.4	8.0	---	---	---	---	---	---	---	---	---
10	9.1	7.0	8.2	---	---	---	---	---	---	---	---	---
11	8.8	6.4	8.1	---	---	---	---	---	---	---	---	---
12	8.5	1.7	6.3	---	---	---	---	---	---	---	---	---
13	9.2	4.3	8.3	---	---	---	---	---	---	11.3	10.0	10.8
14	9.0	7.0	8.5	---	---	---	---	---	---	10.9	10.4	10.7
15	9.6	4.5	7.9	---	---	---	---	---	---	11.0	10.2	10.7
16	9.4	8.3	8.8	---	---	---	---	---	---	11.6	10.6	11.3
17	9.1	8.0	8.5	---	---	---	---	---	---	11.5	10.9	11.3
18	8.5	8.1	8.4	9.2	7.6	8.4	---	---	---	11.8	11.2	11.3
19	8.7	7.3	8.2	8.8	6.8	8.0	---	---	---	11.9	10.4	11.5
20	9.2	8.2	8.5	9.1	7.4	8.0	---	---	---	11.8	10.2	11.4
21	9.0	8.2	8.5	10.4	6.2	8.0	---	---	---	12.0	11.6	11.7
22	8.9	8.2	8.6	10.3	6.1	7.9	---	---	---	12.0	10.9	11.5
23	9.2	8.8	8.9	11.1	7.5	9.3	---	---	---	12.2	10.5	11.1
24	9.0	8.7	8.8	10.4	9.4	9.9	---	---	---	12.3	11.9	12.2
25	9.6	8.9	9.1	10.4	9.2	9.6	---	---	---	12.1	11.7	11.9
26	9.8	8.8	9.2	9.9	8.2	9.4	---	---	---	12.4	11.6	12.1
27	9.4	7.4	8.7	10.2	7.9	9.7	---	---	---	12.9	12.3	12.5
28	9.6	8.9	9.3	10.5	8.1	9.8	---	---	---	13.3	12.1	12.8
29	9.4	7.9	9.1	10.9	9.0	10.3	---	---	---	13.7	12.4	13.1
30	9.5	6.7	8.6	10.9	10.3	10.5	---	---	---	13.5	11.9	12.9
31	9.3	6.1	7.7	---	---	---	---	---	---	13.0	12.7	12.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	13.2	12.8	13.0	13.6	12.0	12.9	---	---	---	8.9	6.1	7.8
2	13.2	12.9	13.0	13.1	12.1	12.7	---	---	---	8.9	7.1	8.2
3	13.4	12.8	13.1	12.6	12.1	12.3	---	---	---	9.3	6.3	8.1
4	13.5	12.7	13.0	12.5	6.0	11.2	---	---	---	8.9	6.1	8.3
5	13.5	12.9	13.1	12.5	11.8	12.2	---	---	---	9.2	5.6	8.1
6	13.0	10.5	12.3	12.6	11.7	12.3	---	---	---	9.4	4.4	7.6
7	13.6	12.2	13.0	12.5	4.5	10.0	---	---	---	9.5	4.6	8.2
8	13.4	9.6	12.3	11.8	8.9	10.9	---	---	---	9.2	3.7	8.0
9	---	---	---	11.7	6.8	10.4	---	---	---	8.1	6.7	7.7
10	13.2	11.8	12.4	10.5	8.0	9.6	---	---	---	8.1	7.2	7.6
11	13.7	8.6	11.8	10.6	8.9	9.8	---	---	---	7.7	4.5	6.9
12	---	---	---	10.3	8.8	9.5	9.4	8.4	8.7	8.4	4.8	7.4
13	11.6	9.6	10.9	10.4	9.2	9.7	9.0	8.5	8.7	8.5	6.5	7.7
14	11.8	9.3	10.7	---	---	---	9.4	8.7	9.0	8.0	4.1	7.1
15	12.1	9.7	11.2	---	---	---	9.2	8.5	8.9	8.5	2.5	6.7
16	12.6	9.0	11.0	---	---	---	9.8	8.0	8.9	8.0	4.8	6.9
17	12.5	11.0	12.1	---	---	---	9.9	6.6	8.1	8.4	6.3	7.6
18	12.1	9.8	11.4	---	---	---	9.2	7.0	8.6	8.1	4.5	7.3
19	12.7	10.6	11.9	---	---	---	8.8	8.3	8.5	7.9	6.3	6.9
20	12.8	11.4	12.1	---	---	---	10.2	7.1	8.2	8.1	5.2	7.0
21	13.5	12.0	12.5	---	---	---	9.1	6.6	7.9	8.9	2.5	6.4
22	13.8	12.0	12.8	---	---	---	9.0	7.4	8.5	7.6	4.6	6.6
23	13.4	12.5	13.0	---	---	---	9.7	6.2	8.8	---	---	---
24	14.9	11.9	13.2	---	---	---	9.4	3.9	7.8	---	---	---
25	14.6	7.9	12.7	---	---	---	8.5	5.4	8.2	---	---	---
26	14.3	7.1	10.0	---	---	---	9.1	7.6	8.3	---	---	---
27	12.1	8.9	10.4	---	---	---	8.7	7.6	8.3	8.0	1.8	5.6
28	12.6	8.9	11.5	---	---	---	8.9	8.1	8.5	7.3	3.1	5.9
29	13.0	11.6	12.3	---	---	---	9.2	6.4	8.2	7.5	6.0	7.1
30	---	---	---	---	---	---	9.9	5.9	8.9	8.3	7.4	8.0
31	---	---	---	---	---	---	---	---	---	8.8	7.8	8.3
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.4	5.8	7.7	9.0	7.6	8.2	7.7	3.7	6.6	6.9	5.0	6.2
2	9.8	5.5	7.5	---	---	---	7.4	1.4	5.6	7.3	3.3	5.3
3	9.7	2.8	6.7	---	---	---	7.7	3.3	6.3	6.9	2.6	4.5
4	8.6	3.6	6.3	---	---	---	7.3	5.3	6.5	6.7	2.9	5.7
5	9.3	6.5	8.3	---	---	---	7.6	5.1	6.5	6.9	5.1	5.9
6	9.0	7.1	8.4	---	---	---	7.3	.9	5.5	6.2	5.2	5.8
7	8.9	7.5	7.9	---	---	---	6.5	1.0	4.0	8.2	5.5	6.9
8	9.0	5.6	7.5	8.8	4.0	7.2	7.2	1.3	5.0	8.6	7.0	7.6
9	9.6	3.4	7.6	7.8	3.9	7.0	7.0	1.5	4.5	8.3	6.7	7.5
10	9.7	4.7	8.5	7.9	6.3	7.2	6.7	1.5	4.4	8.4	6.4	7.0
11	9.2	7.0	8.5	8.8	6.7	7.4	6.1	.2	2.8	9.0	6.8	7.8
12	9.1	7.5	8.6	8.3	4.8	7.1	7.3	.2	5.5	8.4	6.6	7.6
13	9.0	3.8	7.6	7.4	4.9	6.7	7.3	4.0	6.3	8.0	6.4	7.2
14	7.7	.9	5.6	6.9	5.6	6.4	7.0	3.7	6.1	---	---	---
15	7.6	.7	4.8	7.1	5.5	6.4	8.0	1.6	4.9	7.9	3.8	6.2
16	7.4	1.6	5.6	7.3	5.4	6.4	6.6	1.4	5.2	8.6	6.1	7.6
17	7.5	5.3	6.7	7.9	5.2	6.2	7.5	1.7	4.9	8.2	4.9	7.2
18	7.2	5.8	6.6	7.0	2.3	5.2	7.5	2.2	6.0	7.2	4.0	6.1
19	7.3	5.5	6.2	8.6	2.0	6.2	7.5	2.2	6.0	7.1	5.0	6.3
20	6.6	5.3	6.1	7.6	4.4	6.6	8.0	2.1	6.8	7.7	4.8	6.6
21	7.1	3.0	6.2	7.2	5.3	6.4	8.0	6.7	7.1	8.1	6.4	7.4
22	7.4	6.0	6.6	8.2	4.6	6.5	7.2	6.3	6.7	7.8	3.4	6.2
23	7.9	4.2	6.4	8.0	6.1	6.9	7.0	5.0	6.1	7.5	2.5	5.1
24	7.7	3.4	6.4	6.8	5.6	6.3	7.6	3.9	6.1	6.8	4.9	6.0
25	7.6	4.1	6.6	6.4	5.7	6.0	6.8	4.6	6.2	7.1	2.3	5.0
26	7.5	5.9	6.8	6.6	5.1	6.0	7.3	5.7	6.4	6.8	3.2	6.3
27	7.8	6.2	6.8	8.7	4.4	6.7	7.7	5.7	6.9	7.7	5.8	6.6
28	7.0	6.1	6.5	8.5	2.6	6.0	7.2	3.7	5.9	9.2	5.9	7.5
29	6.9	6.1	6.5	8.1	2.1	5.9	7.0	3.0	5.6	8.4	7.3	8.0
30	8.6	6.2	7.2	7.7	2.3	5.0	6.5	4.6	6.0	8.7	7.5	8.1
31	---	---	---	7.6	1.4	5.4	7.2	5.5	6.4	---	---	---
MONTH	9.8	.7	7.0	---	---	---	8.0	.2	5.8	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	---	---	---	106	95	100	108	100	104	---	---	---
2	---	---	---	103	76	90	114	103	108	---	---	---
3	---	---	---	97	89	94	128	106	114	---	---	---
4	---	---	---	104	94	98	121	112	116	---	---	---
5	---	---	---	115	97	103	126	114	120	---	---	---
6	---	---	---	113	98	105	128	116	122	---	---	---
7	---	---	---	108	102	104	122	110	116	---	---	---
8	---	---	---	119	102	107	127	110	117	---	---	---
9	---	---	---	122	106	111	134	114	122	---	---	---
10	---	---	---	111	106	108	127	103	116	---	---	---
11	---	---	---	133	104	111	115	104	111	---	---	---
12	---	---	---	110	104	107	121	108	113	---	---	---
13	---	---	---	---	---	---	119	108	112	101	92	97
14	---	---	---	---	---	---	118	106	112	97	93	95
15	---	---	---	---	---	---	114	102	108	115	91	97
16	---	---	---	---	---	---	112	97	106	99	92	96
17	---	---	---	---	---	---	114	96	101	99	93	96
18	---	---	---	128	93	104	110	94	100	97	93	95
19	---	---	---	122	97	105	102	97	99	100	92	96
20	---	---	---	125	97	107	112	95	102	98	91	96
21	---	---	---	136	108	118	108	97	102	96	93	94
22	89	82	86	135	104	114	103	94	98	100	92	95
23	93	86	89	134	104	112	106	94	99	98	93	96
24	87	85	86	130	108	116	---	---	---	98	95	96
25	92	85	87	134	106	118	---	---	---	96	92	94
26	92	83	87	114	103	108	---	---	---	97	92	94
27	91	84	87	108	100	104	---	---	---	100	95	97
28	91	86	89	111	99	105	---	---	---	103	96	99
29	104	86	90	114	102	107	---	---	---	107	98	101
30	105	87	94	106	101	104	---	---	---	105	99	102
31	102	91	94	---	---	---	---	---	---	104	99	101
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	105	101	103	133	121	126	86	74	81	---	---	---
2	106	101	104	126	118	121	83	73	78	---	---	---
3	108	101	105	120	113	116	86	70	77	---	---	---
4	119	104	110	118	113	116	83	73	78	103	95	99
5	112	106	108	119	110	114	88	80	85	121	93	104
6	114	104	108	119	111	114	86	76	81	119	95	106
7	120	103	111	118	111	114	83	72	79	121	98	109
8	117	111	114	123	101	114	86	69	76	114	101	107
9	---	---	---	116	104	111	---	---	---	104	92	98
10	127	109	115	116	95	105	100	88	92	103	89	95
11	124	112	116	115	97	107	102	82	93	111	87	97
12	---	---	---	103	89	97	112	93	99	111	94	101
13	108	98	102	105	89	97	100	95	97	122	99	108
14	110	96	103	110	94	100	106	96	101	114	98	105
15	110	98	103	114	96	104	109	99	103	114	97	104
16	124	102	109	111	98	104	120	102	111	110	94	103
17	112	104	107	105	93	99	124	114	119	110	98	104
18	111	101	105	97	88	92	116	105	111	113	92	103
19	118	102	108	102	90	94	108	103	105	116	89	102
20	127	104	111	94	89	92	125	99	111	135	95	112
21	121	107	112	96	87	92	117	105	109	---	---	---
22	128	107	114	96	89	92	115	107	109	---	---	---
23	139	112	123	94	88	91	124	107	115	---	---	---
24	146	119	130	111	87	94	124	110	117	---	---	---
25	145	129	137	113	93	102	---	---	---	---	---	---
26	145	124	134	105	89	98	---	---	---	---	---	---
27	136	113	125	100	86	93	---	---	---	108	90	99
28	124	108	115	97	86	91	---	---	---	90	74	82
29	129	111	119	91	84	88	---	---	---	87	79	84
30	---	---	---	93	83	88	---	---	---	92	85	89
31	---	---	---	89	79	85	---	---	---	106	88	96
MONTH	---	---	---	133	79	102	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	135	73	114	---	---	---	108	87	95	100	83	91
2	140	110	122	---	---	---	115	93	102	116	86	97
3	119	105	112	---	---	---	110	91	100	104	84	93
4	110	93	102	---	---	---	101	87	96	94	77	85
5	117	100	107	---	---	---	126	88	107	96	68	79
6	109	99	105	---	---	---	119	98	110	82	68	76
7	112	91	99	---	---	---	113	92	103	99	71	86
8	126	99	111	122	97	108	115	86	95	113	88	98
9	123	106	114	105	90	96	122	82	96	112	92	101
10	122	109	116	106	85	94	124	78	102	113	92	102
11	129	111	119	125	89	101	119	91	107	117	82	96
12	132	109	120	108	91	102	102	86	93	120	90	103
13	120	95	107	110	84	97	106	84	90	125	86	107
14	118	90	100	103	84	97	97	79	87	128	98	110
15	112	90	100	121	88	97	130	80	100	111	92	101
16	101	87	95	115	84	102	102	81	90	116	91	102
17	101	83	91	158	88	110	116	81	97	119	95	105
18	100	80	91	128	99	116	109	87	96	109	84	93
19	108	81	91	125	87	106	103	66	84	106	83	87
20	100	83	90	108	84	98	103	72	88	112	82	96
21	---	---	---	104	86	96	100	79	89	122	97	108
22	---	---	---	113	90	98	94	77	86	116	105	111
23	150	78	100	119	90	103	86	70	79	108	93	102
24	97	65	84	105	88	94	112	63	89	138	92	107
25	107	68	88	97	82	89	93	80	85	114	92	103
26	101	82	91	111	86	96	116	78	95	93	83	87
27	100	82	89	162	89	109	105	93	98	104	82	90
28	95	80	86	126	98	114	102	85	92	120	88	102
29	96	82	90	117	101	107	89	73	83	104	90	99
30	115	84	96	120	87	103	85	74	79	113	90	100
31	---	---	---	100	82	91	100	73	86	---	---	---
MONTH	---	---	---	---	---	---	130	63	94	138	68	97

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	---	---	---	88	60	73	109	102	105	---	---	---
2	---	---	---	88	57	76	113	105	108	---	---	---
3	---	---	---	99	87	96	118	107	110	---	---	---
4	---	---	---	107	96	100	---	---	---	---	---	---
5	---	---	---	106	97	101	---	---	---	---	---	---
6	---	---	---	110	102	104	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	98	76	87	---	---	---	---	---	---	---	---	---
9	96	82	89	---	---	---	---	---	---	---	---	---
10	104	78	92	---	---	---	---	---	---	---	---	---
11	101	74	92	---	---	---	---	---	---	---	---	---
12	97	20	72	---	---	---	---	---	---	---	---	---
13	105	51	94	---	---	---	---	---	---	108	95	103
14	101	79	96	---	---	---	---	---	---	102	98	100
15	108	51	88	---	---	---	---	---	---	101	92	97
16	107	92	99	---	---	---	---	---	---	104	95	101
17	104	92	97	---	---	---	---	---	---	103	97	100
18	97	91	95	93	78	85	---	---	---	100	95	97
19	97	81	91	88	70	80	---	---	---	101	89	98
20	103	90	94	91	75	80	---	---	---	99	88	96
21	98	89	92	104	64	80	---	---	---	98	95	96
22	95	88	91	106	62	80	---	---	---	96	91	94
23	98	92	94	116	75	95	---	---	---	96	86	91
24	94	90	92	107	97	103	---	---	---	98	96	97
25	99	90	93	108	95	100	---	---	---	97	93	94
26	102	88	93	104	84	98	---	---	---	96	92	94
27	94	78	89	107	81	102	---	---	---	98	95	96
28	98	91	93	109	84	101	---	---	---	100	93	96
29	95	82	92	111	93	105	---	---	---	103	94	97
30	96	71	87	107	102	104	---	---	---	102	92	98
31	96	65	80	---	---	---	---	---	---	100	96	98
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	100	97	99	134	117	126	---	---	---	99	66	85
2	101	97	99	131	120	126	---	---	---	99	79	91
3	102	97	99	125	118	122	---	---	---	107	71	91
4	104	97	100	123	58	109	---	---	---	101	68	94
5	104	99	102	124	114	119	---	---	---	105	64	93
6	102	84	96	125	113	120	---	---	---	108	51	87
7	109	97	103	125	45	100	---	---	---	112	55	96
8	107	78	97	118	88	109	---	---	---	112	43	95
9	---	---	---	119	69	106	---	---	---	100	80	93
10	110	97	101	109	82	99	---	---	---	100	86	92
11	116	73	100	111	91	102	---	---	---	93	54	83
12	---	---	---	108	92	99	101	89	93	103	57	91
13	97	82	91	109	95	100	94	90	92	106	80	96
14	102	79	91	---	---	---	98	90	94	100	50	88
15	104	84	97	---	---	---	97	88	93	106	31	83
16	111	78	96	---	---	---	107	85	94	99	59	86
17	110	97	106	---	---	---	108	72	88	102	78	93
18	106	86	100	---	---	---	101	76	94	99	55	89
19	115	93	107	---	---	---	94	89	91	98	78	86
20	116	103	110	---	---	---	109	76	88	100	66	87
21	124	110	114	---	---	---	98	70	86	114	32	81
22	126	108	116	---	---	---	98	81	93	95	58	83
23	122	112	117	---	---	---	108	68	96	---	---	---
24	139	108	121	---	---	---	104	43	86	---	---	---
25	136	73	117	---	---	---	93	59	89	---	---	---
26	134	67	93	---	---	---	98	82	89	---	---	---
27	118	82	97	---	---	---	94	82	90	100	21	70
28	123	87	112	---	---	---	95	87	91	91	39	74
29	129	113	121	---	---	---	99	69	87	91	75	88
30	---	---	---	---	---	---	107	64	96	97	89	94
31	---	---	---	---	---	---	---	---	---	102	90	96
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	109	67	90	125	105	113	105	48	88	94	65	83
2	118	65	89	---	---	---	100	18	75	99	44	71
3	120	34	81	---	---	---	105	44	85	94	35	61
4	106	43	77	---	---	---	96	72	87	89	39	76
5	113	79	101	---	---	---	101	68	85	91	68	77
6	109	86	102	---	---	---	98	12	72	79	67	74
7	108	89	95	---	---	---	86	12	53	106	69	87
8	109	70	92	121	55	98	96	17	67	111	89	96
9	118	43	94	106	53	95	95	19	61	108	87	96
10	121	59	107	108	85	98	92	18	60	109	82	90
11	116	86	108	121	90	100	84	2	39	119	87	100
12	117	95	109	114	64	96	99	3	75	110	85	98
13	116	49	97	99	65	90	99	53	85	104	84	94
14	100	12	72	93	74	86	92	50	80	---	---	---
15	100	10	63	96	73	85	108	21	65	104	50	81
16	97	21	73	98	72	85	91	18	70	110	79	98
17	101	70	89	108	70	83	101	24	66	101	63	89
18	98	78	88	96	31	70	105	30	81	89	52	76
19	101	74	84	121	27	85	103	30	82	88	63	78
20	89	72	81	105	60	91	108	28	91	97	59	82
21	96	40	83	98	72	88	107	89	95	101	80	93
22	103	79	90	114	62	88	96	82	87	99	43	78
23	109	58	86	110	81	93	91	64	80	94	31	64
24	108	46	88	92	75	85	102	52	81	85	62	74
25	106	56	91	85	76	80	89	60	82	88	28	62
26	105	82	93	87	67	79	97	75	85	85	39	77
27	109	84	94	117	58	89	104	75	91	94	70	79
28	99	83	90	114	34	80	95	50	78	114	72	91
29	95	85	90	111	27	79	92	40	74	103	89	97
30	119	85	99	104	29	68	86	60	80	106	89	98
31	---	---	---	103	17	72	98	72	85	---	---	---
MONTH	121	10	90	---	---	---	108	2	77	---	---	---

02084557 VAN SWAMP NEAR HOKE, NC

LOCATION.--Lat 35°43'49", long 76°44'49", Washington County, Hydrologic Unit 03020104, on left bank at upstream side of culvert on State Highway 32, and 4.8 mi east of Hoke.

DRAINAGE AREA.--23 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair. No flow occurs periodically. Minimum discharge for current water year also occurred July 23.

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	170	151	22	9.0	88	24	40	89	10	1.4	5.6	20
2	158	145	20	8.1	85	23	36	85	8.7	.93	3.9	22
3	149	149	18	7.4	81	21	32	78	7.5	.69	3.1	19
4	140	138	16	6.9	76	20	30	69	6.7	.54	4.6	18
5	136	127	14	7.4	70	19	27	59	6.3	.47	6.2	73
6	128	116	14	8.3	64	18	24	49	5.5	.46	5.3	74
7	117	105	14	8.4	59	17	23	42	4.7	.41	4.0	69
8	106	93	14	8.2	53	15	20	34	3.6	.36	3.0	59
9	95	81	13	8.5	49	14	19	28	2.9	.35	3.8	49
10	85	70	12	12	45	14	18	24	2.4	.34	6.1	45
11	82	62	12	34	42	14	17	21	2.0	.32	6.4	32
12	80	55	11	36	39	14	16	19	1.7	.31	17	23
13	74	49	11	32	50	13	14	17	1.4	.26	16	18
14	69	45	10	27	61	11	14	14	1.2	.23	13	15
15	64	41	11	22	69	11	16	13	1.0	.35	10	12
16	61	36	12	19	67	11	39	11	.89	.42	8.0	10
17	78	32	11	18	62	50	45	10	.78	.37	6.8	8.9
18	242	28	10	16	56	81	41	9.3	.69	.27	6.1	9.2
19	263	25	9.9	15	52	80	37	8.3	.71	.20	5.7	28
20	281	23	11	15	48	75	34	7.8	1.2	.15	5.1	30
21	307	21	13	19	45	78	31	7.4	.93	.15	4.4	25
22	308	19	14	21	41	87	46	7.4	.81	.13	3.8	25
23	296	17	15	21	38	85	53	6.6	.81	.13	3.3	44
24	272	17	16	41	35	79	46	6.3	.64	.19	2.6	107
25	248	17	15	71	32	72	42	5.8	.51	.38	2.2	112
26	226	17	14	89	30	64	63	5.3	.44	9.9	1.9	129
27	209	24	13	96	28	57	65	4.7	.34	22	1.7	122
28	196	31	12	85	26	54	65	6.1	.47	16	1.8	116
29	184	28	11	60	25	51	91	7.4	2.9	14	1.5	110
30	172	25	11	58	---	49	92	12	2.5	11	4.0	105
31	161	---	9.9	84	---	45	---	12	---	8.2	18	---
TOTAL	5157	1787	409.8	963.2	1516	1266	1136	768.4	80.22	90.91	184.9	1529.1
MEAN	166	59.6	13.2	31.1	52.3	40.8	37.9	24.8	2.67	2.93	5.96	51.0
MAX	308	151	22	96	88	87	92	89	10	22	18	129
MIN	61	17	9.9	6.9	25	11	14	4.7	.34	.13	1.5	8.9
CFSM	7.23	2.59	.57	1.35	2.27	1.78	1.65	1.08	.12	.13	.26	2.22
IN.	8.34	2.89	.66	1.56	2.45	2.05	1.84	1.24	.13	.15	.30	2.47

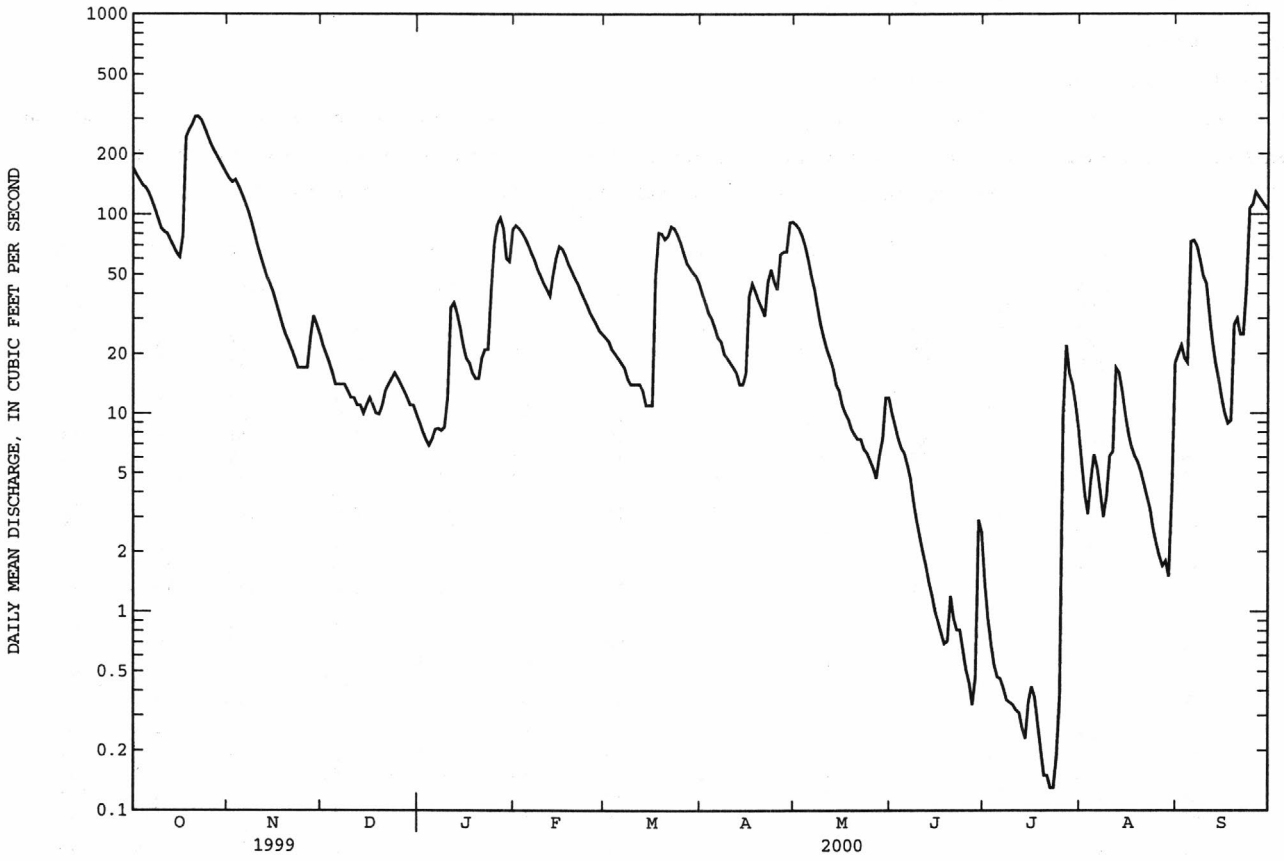
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

MEAN	20.3	16.1	16.4	44.5	49.3	58.5	41.4	25.5	8.72	5.69	11.0	21.2
MAX	166	121	56.6	124	122	142	101	122	29.8	55.2	64.8	189
(WY)	2000	1978	1990	1978	1998	1983	1983	1978	1995	1989	1986	1999
MIN	.018	.052	.033	.72	10.2	8.78	4.68	.58	.29	.011	.000	.034
(WY)	1979	1979	1989	1989	1989	1992	1985	1985	1985	1997	1997	1995

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	17392.36		14888.53			
ANNUAL MEAN	47.7		40.7		26.8	
HIGHEST ANNUAL MEAN					51.7	1978
LOWEST ANNUAL MEAN					7.76	1981
HIGHEST DAILY MEAN	373	Sep 19	308	Oct 22	385	Nov 7 1977
LOWEST DAILY MEAN	.03	Aug 24	.13	Jul 22	.00	Aug 21 1983
ANNUAL SEVEN-DAY MINIMUM	.08	Aug 20	.17	Jul 18	.00	Sep 12 1985
INSTANTANEOUS PEAK FLOW			311	Oct 22	409	Nov 6 1977
INSTANTANEOUS PEAK STAGE			6.66	Oct 22	7.43	Sep 16 1999
INSTANTANEOUS LOW FLOW			.12*	Jul 22	.00*	Oct 1 1978
ANNUAL RUNOFF (CFSM)	2.07		1.77		1.16	
ANNUAL RUNOFF (INCHES)	28.13		24.08		15.80	
10 PERCENT EXCEEDS	147		99		75	
50 PERCENT EXCEEDS	18		19		8.2	
90 PERCENT EXCEEDS	.71		.98		.14	

* See REMARKS.

02084557 VAN SWAMP NEAR HOKE, NC--Continued



0208457150 PUNGO RIVER AT CHANNEL LIGHT 7

LOCATION.--Lat 35°29'00", long 76°35'17", Beaufort County, Hydrologic Unit 03020104, on U.S. Coast Guard Channel Light 7.

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

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): November 1999 to September 2000.

pH (TOP AND BOTTOM): November 1999 to September 2000.

WATER TEMPERATURE (TOP AND BOTTOM): November 1999 to September 2000.

DISSOLVED OXYGEN (TOP AND BOTTOM): November 1999 to September 2000.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): November 1999 to September 2000.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 1999 to September 2000.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%. On May 25, 2000 the monitor was relocated to Channel Light 8 which is 1.2 miles upstream.

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	13.3, August 14	1.7, July 30
SALINITY (BOTTOM), ppt	17.8, August 14	4.1, November 30
pH (TOP), standard units	8.8, April 1	6.1, July 20
pH (BOTTOM), standard units	8.7, November 21, March 28, 29	6.5, June 2, 3
WATER TEMPERATURE (TOP), °C	31.6, August 10	0.6, January 29
WATER TEMPERATURE (BOTTOM), °C	30.6, August 10	1.1, January 29
DISSOLVED OXYGEN (TOP), mg/L	15.2, February 10	4.1, July 17
DISSOLVED OXYGEN (BOTTOM), mg/L	14.8, February 6, 11, 12	<1.0, July 14, August 12, 13, 14, 16, 17
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	150, September 13	54, July 17
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	144, February 26	<10, August 12, 16, 17

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

SALINITY (PARTS PER THOUSAND), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	5.3	4.2	4.6	6.2	5.7	6.0
2	---	---	---	---	---	---	5.1	4.6	4.8	6.4	5.5	5.9
3	---	---	---	---	---	---	5.2	4.7	4.9	6.4	6.0	6.2
4	---	---	---	---	---	---	5.0	4.8	4.9	---	---	---
5	---	---	---	---	---	---	5.1	4.8	4.9	---	---	---
6	---	---	---	---	---	---	5.2	4.7	5.0	6.5	6.0	6.3
7	---	---	---	---	---	---	5.9	4.7	5.2	6.5	6.0	6.2
8	---	---	---	---	---	---	5.3	4.8	5.1	6.2	5.9	6.1
9	---	---	---	---	---	---	5.4	4.7	5.0	6.2	5.9	6.0
10	---	---	---	---	---	---	6.4	4.8	5.3	6.7	6.0	6.3
11	---	---	---	---	---	---	6.2	5.3	5.7	6.6	6.3	6.4
12	---	---	---	---	---	---	5.7	5.1	5.3	6.5	6.0	6.3
13	---	---	---	---	---	---	5.7	5.2	5.5	6.5	5.9	6.3
14	---	---	---	---	---	---	5.9	5.3	5.6	6.5	5.8	6.0
15	---	---	---	---	---	---	6.0	5.3	5.6	6.5	6.1	6.3
16	---	---	---	---	---	---	5.9	5.5	5.7	6.5	6.0	6.3
17	---	---	---	---	---	---	6.0	5.4	5.7	6.4	5.7	6.0
18	---	---	---	---	---	---	5.7	5.3	5.5	6.4	5.9	6.2
19	---	---	---	5.0	4.3	4.7	6.0	5.4	5.7	6.7	5.7	6.3
20	---	---	---	5.1	4.5	4.8	6.2	5.0	5.5	---	---	---
21	---	---	---	5.0	4.5	4.8	6.3	5.4	5.7	---	---	---
22	---	---	---	4.9	4.4	4.7	6.1	5.4	5.7	7.5	6.4	6.9
23	---	---	---	4.6	4.2	4.4	6.5	5.5	5.9	6.7	6.2	6.5
24	---	---	---	4.8	4.2	4.4	6.4	5.8	6.2	7.3	6.2	6.7
25	---	---	---	4.7	4.1	4.4	6.4	5.4	6.1	---	---	---
26	---	---	---	5.1	4.4	4.8	7.0	5.8	6.5	8.3	6.4	7.2
27	---	---	---	5.1	4.7	4.8	7.0	5.9	6.6	7.6	6.3	6.8
28	---	---	---	5.0	4.8	4.9	6.8	5.9	6.3	7.0	5.2	6.2
29	---	---	---	5.0	4.8	4.9	---	---	---	6.3	5.0	5.8
30	---	---	---	5.0	4.1	4.6	6.9	6.4	6.6	7.0	5.5	6.2
31	---	---	---	---	---	---	6.9	6.1	6.4	8.1	5.9	6.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.7	6.0	6.1	6.4	5.5	6.0	7.6	5.8	7.0	---	---	---
2	6.8	6.1	6.4	7.2	6.1	6.4	7.6	6.8	7.3	---	---	---
3	6.6	5.5	6.2	6.7	6.3	6.6	7.8	6.7	7.3	---	---	---
4	6.7	5.8	6.2	6.8	6.1	6.4	8.0	6.8	7.3	6.5	5.7	6.1
5	6.9	5.8	6.2	6.6	6.2	6.4	7.9	6.8	7.2	6.5	5.1	5.9
6	7.0	5.6	6.3	6.6	6.4	6.4	7.6	7.0	7.3	6.5	5.3	5.7
7	6.8	6.2	6.5	7.6	6.3	6.8	7.9	7.1	7.3	6.3	5.5	5.8
8	6.8	6.1	6.4	7.4	6.8	7.1	---	---	---	6.3	5.6	5.8
9	6.4	5.9	6.1	8.2	7.0	7.5	---	---	---	6.7	5.4	6.0
10	6.2	5.7	5.9	8.2	7.1	7.6	---	---	---	6.7	5.1	5.8
11	6.6	5.7	6.1	8.2	7.4	7.9	---	---	---	6.2	5.4	5.8
12	6.9	5.9	6.5	8.2	7.0	7.6	---	---	---	6.2	5.7	5.9
13	6.9	6.2	6.6	7.8	7.3	7.6	---	---	---	6.2	3.0	5.9
14	7.4	6.1	6.7	---	---	---	---	---	---	6.5	5.4	5.9
15	7.2	6.2	6.5	7.6	7.1	7.3	---	---	---	6.4	3.5	5.9
16	6.8	6.0	6.5	---	---	---	---	---	---	6.8	5.8	6.2
17	6.7	5.9	6.3	7.6	7.0	7.3	---	---	---	6.4	5.3	5.8
18	6.6	5.4	6.0	7.4	6.9	7.1	---	---	---	6.7	5.7	6.1
19	7.3	5.8	6.6	7.7	7.1	7.3	---	---	---	6.6	5.6	6.2
20	---	---	---	7.7	7.0	7.4	---	---	---	6.6	5.4	6.0
21	---	---	---	7.7	6.6	7.0	---	---	---	6.4	5.3	5.9
22	6.9	6.1	6.5	7.1	6.1	6.8	---	---	---	6.5	5.6	6.1
23	6.8	5.7	6.2	7.6	6.3	7.0	---	---	---	6.5	5.9	6.3
24	6.3	5.6	5.8	7.7	6.4	7.1	---	---	---	6.4	5.9	6.1
25	6.3	5.7	5.9	7.4	6.2	6.9	---	---	---	---	---	---
26	6.4	5.6	6.0	7.3	6.5	6.9	---	---	---	6.2	5.2	5.7
27	7.2	6.0	6.4	7.3	6.6	7.0	---	---	---	5.9	5.5	5.7
28	7.0	5.9	6.2	7.8	6.6	7.1	---	---	---	6.2	5.2	5.8
29	6.4	5.7	5.9	7.5	6.6	7.0	---	---	---	5.9	5.0	5.6
30	---	---	---	7.2	6.6	7.0	---	---	---	5.9	5.0	5.5
31	---	---	---	7.3	6.7	7.0	---	---	---	7.5	5.6	6.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

SALINITY (PARTS PER THOUSAND), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.4	5.0	5.5	8.6	7.1	7.8	8.6	8.3	8.4	---	---	---
2	6.6	4.5	5.4	7.9	6.3	7.4	8.9	8.3	8.6	11.3	10.6	11.0
3	8.8	4.3	6.0	7.6	7.0	7.4	8.9	7.9	8.4	11.0	10.2	10.6
4	7.1	5.3	5.8	8.1	7.2	7.7	8.5	8.2	8.4	10.8	9.7	10.2
5	6.9	5.0	5.6	8.1	6.9	7.5	8.6	7.4	8.1	10.9	9.3	10.2
6	8.2	5.0	6.2	8.2	6.8	7.6	8.3	7.6	7.9	11.3	9.4	10.1
7	11.0	7.1	9.2	7.7	6.6	7.2	8.0	7.6	7.8	11.7	9.6	10.5
8	9.9	8.9	9.3	9.0	6.7	7.6	8.0	7.5	7.7	10.3	8.2	9.5
9	9.7	9.1	9.5	8.1	7.0	7.4	8.0	7.5	7.7	9.9	7.8	8.8
10	9.7	9.1	9.3	8.3	7.4	8.0	8.4	7.0	7.8	9.3	8.2	8.7
11	9.5	8.6	9.0	8.4	7.7	7.9	8.2	7.2	7.6	9.7	8.6	8.9
12	9.1	8.5	8.8	9.5	7.5	8.2	9.0	6.3	7.4	9.1	7.9	8.6
13	9.2	8.5	8.9	9.0	7.4	7.9	11.6	7.2	8.3	8.6	8.1	8.3
14	9.7	8.6	9.2	8.4	7.8	8.1	13.3	9.7	11.2	9.1	8.0	8.4
15	9.8	7.8	9.4	9.2	7.9	8.6	13.0	10.6	12.1	9.6	8.2	8.8
16	9.8	9.2	9.3	8.8	8.0	8.3	12.0	10.7	11.4	10.0	8.6	9.6
17	9.2	8.8	9.0	9.4	7.9	8.7	12.4	11.1	11.8	11.2	9.8	10.2
18	9.3	8.4	8.8	8.7	7.9	8.2	---	---	---	12.5	10.0	10.6
19	9.1	8.1	8.6	8.8	8.3	8.4	12.0	9.5	10.6	11.5	10.3	10.7
20	9.0	8.0	8.6	9.4	8.3	8.7	12.1	9.8	10.5	10.7	9.8	10.2
21	8.9	7.7	8.4	9.4	8.5	9.0	12.7	10.0	10.9	10.1	9.6	9.9
22	8.5	7.7	8.1	9.1	8.5	8.8	11.7	10.3	11.0	10.9	9.4	10.2
23	9.0	7.7	8.3	9.8	7.9	8.9	11.2	10.7	11.0	10.4	9.7	10.1
24	9.0	7.8	8.6	9.2	8.1	8.6	11.3	10.7	11.0	10.0	7.5	9.2
25	8.8	8.0	8.3	9.8	8.5	9.0	12.0	10.7	11.2	9.4	8.3	8.9
26	8.5	7.9	8.2	9.4	8.3	8.7	11.4	10.8	11.2	9.0	8.0	8.6
27	8.4	7.4	7.9	8.8	8.1	8.5	11.8	11.3	11.4	8.8	8.2	8.5
28	8.3	7.3	7.9	8.7	8.0	8.3	11.8	11.1	11.5	---	---	---
29	8.4	7.3	7.7	8.8	7.0	8.5	11.8	11.3	11.6	---	---	---
30	8.6	7.3	8.0	9.1	1.7	8.3	12.4	10.7	11.6	9.1	7.0	7.8
31	---	---	---	9.0	8.4	8.6	---	---	---	---	---	---
MONTH	11.0	4.3	8.1	9.8	1.7	8.2	---	---	---	---	---	---

SALINITY (PARTS PER THOUSAND), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	5.3	4.2	4.6	6.6	6.3	6.4
2	---	---	---	---	---	---	5.2	4.7	4.9	6.9	6.1	6.5
3	---	---	---	---	---	---	5.4	4.8	5.1	6.8	6.2	6.4
4	---	---	---	---	---	---	5.2	4.8	5.0	7.4	6.3	6.9
5	---	---	---	---	---	---	5.2	4.8	5.0	7.2	6.0	6.6
6	---	---	---	---	---	---	5.4	4.8	5.1	6.9	6.1	6.5
7	---	---	---	---	---	---	6.5	4.8	5.5	6.6	6.0	6.4
8	---	---	---	---	---	---	6.7	5.1	5.5	6.7	6.0	6.3
9	---	---	---	---	---	---	6.7	5.0	5.5	6.5	6.0	6.2
10	---	---	---	---	---	---	7.0	5.1	5.7	6.8	6.2	6.5
11	---	---	---	---	---	---	6.4	5.3	5.9	6.6	6.3	6.4
12	---	---	---	---	---	---	6.3	5.2	5.7	6.6	6.2	6.3
13	---	---	---	---	---	---	6.2	5.3	5.8	6.6	5.9	6.3
14	---	---	---	---	---	---	6.0	5.6	5.9	6.6	5.8	6.0
15	---	---	---	---	---	---	6.2	5.4	5.9	6.9	6.2	6.3
16	---	---	---	---	---	---	6.3	5.6	5.9	6.5	6.1	6.3
17	---	---	---	---	---	---	6.5	5.6	6.0	6.4	5.8	6.1
18	---	---	---	---	---	---	6.0	5.6	5.8	6.9	5.9	6.4
19	---	---	---	5.6	4.5	4.9	6.3	5.5	5.9	7.2	6.0	6.6
20	---	---	---	5.3	4.7	4.9	6.9	5.5	6.2	7.4	5.6	6.5
21	---	---	---	5.1	4.6	4.9	7.0	5.7	6.1	7.3	6.0	6.7
22	---	---	---	4.9	4.5	4.8	7.2	5.6	6.0	7.6	6.5	7.1
23	---	---	---	5.2	4.3	4.7	6.8	5.6	6.2	7.2	6.2	6.8
24	---	---	---	5.5	4.3	4.7	7.0	5.9	6.4	7.3	6.2	6.8
25	---	---	---	5.4	4.4	5.0	6.7	5.8	6.3	7.7	5.7	6.7
26	---	---	---	5.5	4.5	4.9	7.9	6.2	6.9	8.3	6.5	7.4
27	---	---	---	5.1	4.7	4.9	7.3	6.2	6.8	8.1	6.4	7.1
28	---	---	---	5.2	4.8	5.0	7.0	6.1	6.6	8.1	5.9	6.6
29	---	---	---	5.2	4.8	5.0	7.4	6.2	6.9	7.6	5.5	6.0
30	---	---	---	5.0	4.1	4.7	7.0	6.6	6.8	7.7	5.5	6.5
31	---	---	---	---	---	---	6.9	6.3	6.5	8.2	5.9	6.7
MONTH	---	---	---	---	---	---	7.9	4.2	5.9	8.3	5.5	6.5

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.9	6.0	6.4	7.6	6.2	6.9	---	---	---	---	---	---
2	7.1	6.1	6.5	7.9	6.6	7.0	---	---	---	---	---	---
3	6.9	6.1	6.5	7.5	6.4	7.2	---	---	---	---	---	---
4	6.8	6.0	6.4	7.9	6.1	7.1	---	---	---	6.8	5.7	6.2
5	---	---	---	7.4	5.6	7.0	---	---	---	6.6	5.4	6.1
6	7.2	5.9	6.6	7.8	7.0	7.1	---	---	---	6.6	5.4	5.9
7	7.0	6.3	6.6	9.6	6.7	7.8	---	---	---	6.3	5.5	5.9
8	6.9	6.3	6.5	8.4	7.5	7.8	---	---	---	6.4	4.7	5.8
9	7.1	6.0	6.4	9.0	7.7	8.3	---	---	---	6.9	5.5	6.0
10	6.7	5.8	6.2	9.0	7.8	8.5	---	---	---	6.9	5.2	5.9
11	7.3	6.1	6.6	---	---	---	---	---	---	6.4	5.3	5.9
12	7.0	6.0	6.6	---	---	---	---	---	---	6.1	5.7	6.0
13	7.7	6.4	6.9	---	---	---	---	---	---	6.2	5.6	6.0
14	8.0	6.4	7.1	---	---	---	---	---	---	6.5	5.6	6.0
15	7.6	6.4	6.8	---	---	---	---	---	---	6.6	5.4	6.0
16	7.4	6.6	6.8	---	---	---	---	---	---	7.1	5.8	6.3
17	6.9	6.2	6.6	---	---	---	---	---	---	6.6	5.5	5.9
18	7.6	6.2	6.7	---	---	---	---	---	---	6.6	5.6	5.9
19	7.6	6.1	6.9	---	---	---	---	---	---	6.4	5.5	6.1
20	---	---	---	---	---	---	---	---	---	6.5	5.3	6.0
21	---	---	---	---	---	---	---	---	---	6.4	5.2	5.9
22	7.2	6.6	6.9	---	---	---	---	---	---	6.5	5.7	6.1
23	7.3	6.4	6.9	---	---	---	---	---	---	6.4	5.8	6.1
24	7.2	6.2	6.7	---	---	---	---	---	---	6.3	5.7	6.0
25	7.2	6.1	6.5	---	---	---	---	---	---	---	---	---
26	7.0	6.3	6.6	---	---	---	---	---	---	6.4	5.6	6.0
27	7.7	6.5	6.8	---	---	---	---	---	---	6.2	5.6	5.9
28	7.4	6.3	6.8	---	---	---	---	---	---	6.5	5.5	6.0
29	7.1	6.2	6.5	---	---	---	---	---	---	6.2	5.1	5.7
30	---	---	---	---	---	---	---	---	---	6.6	5.1	5.7
31	---	---	---	---	---	---	---	---	---	9.2	5.9	7.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.8	5.7	8.5	9.2	8.4	8.7	9.4	8.4	8.6	---	---	---
2	10.4	6.8	9.2	9.6	7.5	9.0	9.3	8.4	8.8	11.1	10.8	10.9
3	10.9	6.0	9.6	9.0	7.0	7.8	9.0	8.3	8.6	11.0	10.2	10.7
4	12.4	8.8	11.1	7.9	7.0	7.5	8.7	8.3	8.4	10.9	9.7	10.3
5	13.5	8.5	12.2	8.2	7.1	7.6	9.3	8.3	8.7	11.0	9.6	10.4
6	14.1	8.8	13.0	10.1	8.1	9.1	9.8	8.0	9.0	11.5	9.7	10.4
7	13.9	8.9	12.0	11.8	9.0	10.5	9.0	7.7	8.0	11.9	10.4	11.5
8	12.8	9.5	10.6	12.4	8.4	11.4	8.6	7.5	7.9	12.3	10.8	11.8
9	10.2	9.4	9.8	12.0	7.2	8.4	8.4	7.7	7.9	12.2	10.1	11.5
10	10.6	9.3	9.6	8.3	7.4	8.0	8.4	7.7	8.1	12.0	9.2	10.8
11	10.4	7.7	9.5	9.8	7.7	8.3	9.7	8.2	9.0	11.6	9.1	10.6
12	10.2	7.6	9.4	10.9	8.0	9.8	16.7	8.4	13.3	11.4	8.4	10.5
13	9.6	8.1	9.2	10.8	8.0	9.6	17.7	10.8	16.7	11.2	9.3	10.3
14	10.1	8.8	9.5	11.0	8.3	9.0	17.8	10.7	15.4	11.3	8.5	10.4
15	10.0	9.1	9.7	9.8	8.4	9.0	16.0	12.9	14.8	10.9	8.2	9.5
16	9.9	9.2	9.5	10.0	8.6	9.3	15.7	11.1	12.4	14.5	9.0	12.0
17	9.3	8.9	9.1	10.2	8.5	9.5	15.3	12.0	13.8	14.8	11.0	13.2
18	9.4	8.5	8.9	11.7	8.3	10.3	---	---	---	15.0	11.9	13.7
19	9.2	8.1	8.8	9.5	8.3	8.6	12.8	10.7	12.2	12.2	10.4	10.9
20	9.0	8.1	8.9	10.2	8.3	9.1	13.2	11.9	12.7	10.9	9.9	10.5
21	9.0	8.5	8.8	11.2	8.8	9.5	13.3	12.2	13.0	11.0	9.8	10.2
22	8.6	7.7	8.1	10.8	9.1	9.9	13.7	11.7	13.0	11.2	10.4	10.9
23	9.1	7.7	8.6	11.1	8.9	10.0	13.1	10.9	11.5	11.6	9.7	10.6
24	9.0	8.1	8.7	10.9	8.5	9.7	12.4	10.8	11.3	10.4	9.2	10.0
25	8.9	8.1	8.5	10.8	9.3	10.0	12.8	11.1	12.1	10.4	9.1	9.8
26	8.5	7.8	8.2	10.1	8.6	9.3	13.1	11.3	12.2	9.5	8.2	8.8
27	8.5	7.3	7.9	10.9	8.6	9.9	11.8	11.3	11.5	9.9	8.5	9.0
28	8.3	7.4	8.0	11.5	8.6	10.0	12.2	11.4	11.7	---	---	---
29	8.6	7.3	7.9	9.6	8.4	8.9	11.8	11.5	11.7	---	---	---
30	8.7	8.3	8.6	10.2	8.6	9.3	12.5	11.1	11.8	11.5	8.9	10.6
31	---	---	---	9.5	8.5	8.8	---	---	---	---	---	---
MONTH	14.1	5.7	9.4	12.4	7.0	9.2	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	7.6	7.4	7.4	8.1	7.5	7.7
2	---	---	---	---	---	---	7.6	7.5	7.5	8.1	7.5	7.8
3	---	---	---	---	---	---	7.8	7.1	7.5	7.6	7.0	7.4
4	---	---	---	---	---	---	7.8	7.5	7.6	---	---	---
5	---	---	---	---	---	---	7.9	7.5	7.7	---	---	---
6	---	---	---	---	---	---	7.8	7.2	7.6	7.6	7.3	7.4
7	---	---	---	---	---	---	7.7	7.3	7.5	7.8	7.1	7.5
8	---	---	---	---	---	---	7.6	7.1	7.3	8.1	7.2	7.5
9	---	---	---	---	---	---	7.7	7.1	7.4	8.0	7.0	7.5
10	---	---	---	---	---	---	7.8	6.9	7.4	7.8	6.7	7.2
11	---	---	---	---	---	---	7.6	6.9	7.2	7.8	7.4	7.5
12	---	---	---	---	---	---	7.5	7.0	7.2	8.1	7.4	7.7
13	---	---	---	---	---	---	7.4	7.1	7.2	8.3	7.6	7.8
14	---	---	---	---	---	---	7.4	6.9	7.1	7.8	7.5	7.6
15	---	---	---	---	---	---	7.6	7.0	7.3	8.3	7.6	7.7
16	---	---	---	---	---	---	7.6	7.1	7.2	8.0	7.5	7.7
17	---	---	---	---	---	---	7.4	7.0	7.1	7.7	7.6	7.6
18	---	---	---	---	---	---	8.0	7.2	7.4	7.7	7.4	7.6
19	---	---	---	8.1	7.5	7.8	7.3	7.0	7.2	7.7	7.5	7.6
20	---	---	---	8.2	7.6	7.8	7.7	7.0	7.2	---	---	---
21	---	---	---	8.7	7.8	8.1	7.8	7.1	7.3	---	---	---
22	---	---	---	8.6	7.8	8.1	7.6	7.0	7.2	7.9	7.5	7.6
23	---	---	---	8.3	7.7	7.9	7.4	7.0	7.2	7.8	7.6	7.7
24	---	---	---	8.0	7.5	7.7	7.5	7.1	7.3	7.7	7.5	7.6
25	---	---	---	8.3	7.4	7.8	7.4	7.0	7.2	---	---	---
26	---	---	---	7.8	7.2	7.5	7.6	7.2	7.4	7.6	7.5	7.5
27	---	---	---	7.6	7.3	7.4	7.7	7.1	7.4	7.7	7.5	7.6
28	---	---	---	7.6	7.3	7.4	7.8	7.2	7.5	7.8	7.5	7.6
29	---	---	---	7.5	7.3	7.4	---	---	---	7.8	7.4	7.6
30	---	---	---	7.6	7.4	7.4	7.8	7.4	7.6	7.5	7.4	7.5
31	---	---	---	---	---	---	8.2	7.6	7.8	7.6	7.4	7.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.7	7.5	7.5	7.8	7.5	7.6	8.8	7.9	8.3	7.7	7.4	7.5
2	7.7	7.5	7.6	7.9	7.5	7.6	8.5	8.0	8.3	7.5	7.3	7.4
3	7.7	7.4	7.6	7.9	7.5	7.6	8.4	7.9	8.1	---	---	---
4	8.1	7.4	7.7	7.8	7.4	7.6	8.1	7.8	7.9	7.8	7.5	7.6
5	8.2	7.5	7.8	7.9	7.4	7.6	8.2	7.7	7.9	7.7	7.3	7.5
6	8.3	7.6	7.8	8.0	7.5	7.7	8.3	7.8	8.0	7.8	7.3	7.5
7	8.2	7.7	8.0	8.1	7.3	7.7	8.2	7.8	8.0	8.2	7.3	7.7
8	8.1	7.8	7.9	8.1	7.4	7.7	---	---	---	7.8	7.3	7.6
9	8.0	7.7	7.9	8.0	7.2	7.7	---	---	---	7.8	7.3	7.5
10	8.6	7.7	8.1	8.0	7.4	7.7	8.2	7.6	7.8	7.8	7.3	7.5
11	8.5	8.1	8.3	7.8	7.5	7.6	8.0	7.6	7.8	7.7	7.1	7.4
12	8.4	7.6	8.0	7.8	7.4	7.6	8.0	7.7	7.8	7.9	6.9	7.3
13	8.4	7.5	7.8	7.8	7.5	7.7	7.7	7.6	7.7	7.9	7.0	7.4
14	7.9	7.4	7.6	---	---	---	7.8	7.6	7.7	8.1	7.0	7.4
15	8.1	7.5	7.7	8.2	7.6	7.9	7.7	7.5	7.7	7.6	7.1	7.3
16	8.0	7.6	7.8	---	---	---	8.4	7.5	7.9	7.6	7.0	7.3
17	7.9	7.6	7.7	7.7	7.5	7.6	8.3	7.6	8.0	7.5	7.0	7.2
18	8.0	7.6	7.7	7.7	7.5	7.6	8.1	7.4	7.6	7.4	6.9	7.2
19	7.9	7.5	7.6	8.0	7.6	7.7	7.6	7.5	7.6	7.8	7.2	7.4
20	---	---	---	7.8	7.7	7.7	8.0	7.5	7.7	8.2	7.2	7.6
21	---	---	---	7.9	7.6	7.7	7.7	7.5	7.6	8.1	7.2	7.6
22	8.0	7.6	7.7	7.7	7.6	7.6	7.8	7.5	7.6	7.4	7.2	7.3
23	8.3	7.6	7.9	7.8	7.6	7.7	8.1	7.5	7.8	7.6	7.1	7.3
24	8.4	7.8	8.0	8.4	7.7	7.9	8.1	7.7	7.8	7.6	7.2	7.4
25	8.3	7.9	8.1	8.5	7.6	8.1	7.7	7.4	7.5	---	---	---
26	8.4	8.1	8.2	8.5	7.8	8.2	7.8	7.4	7.5	7.5	6.7	6.9
27	8.3	7.1	8.0	8.4	8.0	8.2	7.6	7.5	7.6	7.3	6.7	7.0
28	7.8	7.6	7.7	8.6	7.9	8.2	7.6	7.5	7.5	7.2	6.7	6.9
29	7.7	7.5	7.6	8.5	8.0	8.2	7.7	7.4	7.5	6.9	6.6	6.8
30	---	---	---	8.4	7.9	8.2	7.6	7.4	7.5	7.1	6.7	6.9
31	---	---	---	8.4	7.9	8.1	---	---	---	7.5	7.0	7.2
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	6.8	7.2	7.9	7.0	7.3	8.2	7.4	7.8	---	---	---
2	7.9	6.8	7.4	8.3	6.9	7.5	8.1	7.5	7.8	7.9	7.4	7.6
3	7.8	6.9	7.3	8.3	7.2	7.7	7.9	7.2	7.6	8.0	7.5	7.7
4	7.3	6.8	7.0	7.8	7.1	7.4	7.5	7.2	7.4	8.0	7.5	7.7
5	7.1	6.9	7.0	8.2	7.0	7.4	8.2	7.1	7.5	7.8	7.3	7.5
6	7.5	6.9	7.1	7.7	7.2	7.4	8.2	7.3	7.7	7.5	7.4	7.4
7	7.5	7.0	7.2	7.5	6.9	7.2	8.2	7.4	7.8	7.7	7.3	7.5
8	8.1	7.3	7.6	8.1	6.8	7.3	8.2	7.3	7.8	7.8	7.4	7.6
9	8.1	7.1	7.6	7.8	6.9	7.5	8.5	7.8	8.1	8.3	7.4	7.8
10	8.0	7.3	7.6	8.0	7.2	7.5	8.4	7.2	7.9	8.5	7.7	8.1
11	8.0	7.3	7.7	8.6	7.2	7.8	8.2	7.0	7.5	8.3	7.5	8.0
12	8.0	7.2	7.6	8.2	7.2	7.7	8.1	6.9	7.4	8.5	7.5	8.0
13	7.9	7.3	7.6	7.9	7.2	7.4	8.2	7.2	7.7	8.4	7.8	8.1
14	8.0	7.1	7.6	7.9	7.2	7.5	7.9	7.3	7.6	8.5	7.6	8.1
15	7.9	7.1	7.5	7.9	7.2	7.4	8.3	7.4	7.8	8.2	7.6	8.0
16	7.6	7.3	7.5	8.0	7.0	7.5	8.2	7.5	7.9	7.9	7.4	7.7
17	7.6	7.3	7.4	7.5	7.0	7.2	8.1	7.3	7.8	8.1	7.3	7.7
18	7.8	7.3	7.5	7.9	7.0	7.4	---	---	---	7.7	7.4	7.6
19	8.1	7.3	7.6	7.6	6.6	7.0	8.1	7.5	7.8	7.8	7.4	7.6
20	7.6	7.3	7.5	6.6	6.1	6.3	8.0	7.6	7.7	8.0	7.5	7.7
21	7.9	7.3	7.6	6.6	6.2	6.4	7.9	7.5	7.7	8.0	7.6	7.8
22	7.5	7.0	7.3	7.3	6.5	6.8	7.9	7.5	7.7	8.0	7.6	7.8
23	8.2	6.9	7.4	7.3	6.6	6.9	7.9	7.5	7.7	7.9	7.6	7.7
24	8.2	6.9	7.7	7.3	6.8	6.9	8.0	7.6	7.8	8.3	7.5	7.7
25	8.0	7.2	7.6	7.4	6.9	7.1	7.9	7.5	7.7	8.2	7.5	7.7
26	7.8	7.3	7.5	7.6	7.0	7.3	8.0	7.4	7.7	7.7	7.4	7.6
27	7.8	7.1	7.4	8.1	7.2	7.5	7.9	7.5	7.7	7.7	7.4	7.5
28	7.7	7.2	7.4	8.3	7.0	7.8	7.8	7.4	7.6	---	---	---
29	7.4	7.0	7.2	8.3	7.7	7.9	7.6	7.3	7.4	---	---	---
30	7.7	6.8	7.2	8.1	7.2	7.8	7.6	7.3	7.5	7.8	7.3	7.4
31	---	---	---	8.0	7.1	7.6	---	---	---	---	---	---
MONTH	8.2	6.8	7.4	8.6	6.1	7.3	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	7.4	7.5	8.0	7.7	7.8
2	---	---	---	---	---	---	7.7	7.5	7.6	8.2	7.5	7.9
3	---	---	---	---	---	---	7.8	7.5	7.6	8.3	7.6	8.1
4	---	---	---	---	---	---	7.9	7.6	7.7	8.1	7.4	7.7
5	---	---	---	---	---	---	8.0	7.6	7.8	7.7	7.5	7.6
6	---	---	---	---	---	---	7.9	7.6	7.8	7.7	7.5	7.6
7	---	---	---	---	---	---	7.7	7.5	7.6	7.7	7.5	7.6
8	---	---	---	---	---	---	7.8	7.4	7.6	7.8	7.4	7.6
9	---	---	---	---	---	---	8.1	7.3	7.6	7.9	7.5	7.7
10	---	---	---	---	---	---	7.8	7.4	7.6	7.7	7.3	7.5
11	---	---	---	---	---	---	7.7	7.4	7.5	7.8	7.4	7.6
12	---	---	---	---	---	---	7.7	7.4	7.5	8.1	7.5	7.7
13	---	---	---	---	---	---	7.6	7.4	7.5	8.2	7.6	7.8
14	---	---	---	---	---	---	7.7	7.4	7.5	7.9	7.5	7.6
15	---	---	---	---	---	---	7.8	7.5	7.6	7.8	7.5	7.6
16	---	---	---	---	---	---	7.7	7.5	7.6	7.9	7.5	7.7
17	---	---	---	---	---	---	7.9	7.5	7.6	7.7	7.6	7.6
18	---	---	---	---	---	---	7.8	7.5	7.6	7.7	7.5	7.6
19	---	---	---	7.9	7.4	7.6	7.7	7.5	7.5	7.7	7.4	7.6
20	---	---	---	7.9	7.5	7.7	7.6	7.4	7.5	7.6	7.5	7.6
21	---	---	---	8.7	7.8	8.1	7.9	7.3	7.6	7.7	7.5	7.6
22	---	---	---	8.6	7.8	8.2	7.6	7.3	7.5	7.8	7.5	7.6
23	---	---	---	8.2	7.3	7.8	7.9	7.4	7.5	7.7	7.5	7.6
24	---	---	---	7.9	7.1	7.6	7.6	7.4	7.5	7.6	7.5	7.5
25	---	---	---	8.0	7.1	7.5	7.7	7.5	7.6	7.5	7.4	7.5
26	---	---	---	7.9	7.1	7.5	7.7	7.5	7.6	7.6	7.5	7.5
27	---	---	---	7.6	7.3	7.4	7.9	7.5	7.6	7.7	7.5	7.6
28	---	---	---	7.6	7.4	7.4	7.7	7.6	7.6	7.7	7.6	7.6
29	---	---	---	7.6	7.4	7.5	7.8	7.5	7.7	7.7	7.5	7.6
30	---	---	---	7.6	7.5	7.5	7.9	7.6	7.7	7.6	7.5	7.6
31	---	---	---	---	---	---	8.0	7.7	7.8	7.6	7.4	7.5
MONTH	---	---	---	---	---	---	8.1	7.3	7.6	8.3	7.3	7.6

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.7	7.4	7.5	7.8	7.3	7.6	8.6	8.0	8.3	7.5	7.3	7.5
2	7.6	7.5	7.6	7.9	7.4	7.7	8.6	8.1	8.4	7.5	7.4	7.4
3	7.7	7.4	7.6	7.9	7.5	7.6	8.5	8.0	8.3	7.6	7.2	7.4
4	8.0	7.4	7.6	7.8	7.4	7.6	8.3	7.9	8.1	7.6	7.1	7.3
5	8.2	7.2	7.8	7.9	7.4	7.6	8.3	7.8	8.0	7.6	7.2	7.4
6	8.2	7.6	7.8	7.9	7.5	7.7	8.4	7.9	8.1	7.8	7.1	7.4
7	8.2	7.6	7.9	8.1	7.1	7.6	8.2	7.8	8.0	8.3	7.1	7.5
8	8.0	7.7	7.9	8.1	7.3	7.7	8.1	7.8	8.0	7.9	7.1	7.5
9	7.9	7.6	7.8	8.0	7.1	7.6	8.0	7.8	7.9	7.9	7.1	7.5
10	8.2	7.7	7.9	8.0	7.3	7.6	8.1	7.6	7.8	7.9	7.3	7.6
11	8.4	7.5	8.1	7.8	7.3	7.6	8.0	7.6	7.8	7.7	6.8	7.4
12	8.3	7.5	7.9	7.8	7.4	7.6	7.9	7.7	7.8	7.5	6.8	7.1
13	7.9	7.4	7.5	7.8	7.5	7.6	7.8	7.7	7.7	7.8	6.9	7.2
14	7.7	7.3	7.5	---	---	---	7.8	7.6	7.7	7.8	6.9	7.3
15	7.8	7.4	7.6	8.1	7.5	7.7	7.8	7.6	7.7	7.4	6.9	7.2
16	7.9	7.4	7.7	---	---	---	8.0	7.6	7.7	7.4	6.9	7.1
17	7.9	7.5	7.7	7.8	7.6	7.7	8.0	7.5	7.7	7.4	6.9	7.1
18	7.7	7.4	7.5	7.8	7.6	7.7	7.8	7.4	7.6	7.3	6.8	7.1
19	7.7	7.4	7.5	8.1	7.6	7.8	7.5	7.4	7.5	7.7	7.1	7.3
20	---	---	---	7.9	7.7	7.8	7.7	7.5	7.6	7.9	7.1	7.4
21	---	---	---	8.0	7.7	7.8	7.6	7.5	7.5	7.9	6.9	7.4
22	7.8	7.5	7.6	7.8	7.7	7.7	7.6	7.4	7.5	7.4	7.0	7.2
23	7.8	7.4	7.6	7.9	7.7	7.7	7.7	7.4	7.5	7.4	7.1	7.2
24	8.0	7.4	7.6	8.4	7.7	7.8	7.6	7.3	7.5	7.5	7.1	7.3
25	8.1	7.5	8.0	8.5	7.6	7.9	7.6	7.3	7.5	---	---	---
26	8.4	7.8	8.1	8.4	7.8	8.1	7.5	7.4	7.4	6.9	6.6	6.7
27	8.3	7.0	7.9	8.4	7.7	8.2	7.5	7.3	7.4	7.2	6.6	6.9
28	7.8	7.5	7.6	8.7	7.9	8.3	7.5	7.3	7.4	7.1	6.7	6.8
29	7.7	7.5	7.6	8.7	8.1	8.3	7.5	7.3	7.4	6.8	6.6	6.7
30	---	---	---	8.4	8.0	8.3	7.5	7.3	7.5	7.1	6.7	7.0
31	---	---	---	8.5	8.0	8.2	---	---	---	7.5	7.0	7.3
MONTH	---	---	---	---	---	---	8.6	7.3	7.7	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	6.6	7.0	7.5	7.0	7.1	8.0	6.8	7.6	---	---	---
2	6.9	6.5	6.7	7.9	7.0	7.4	7.8	6.9	7.5	7.7	7.3	7.5
3	6.9	6.5	6.7	8.3	7.0	7.6	7.7	7.2	7.5	7.9	7.3	7.6
4	6.9	6.6	6.7	7.7	7.1	7.3	7.6	7.3	7.4	7.8	7.1	7.5
5	7.2	6.7	6.9	8.2	7.0	7.3	7.6	7.1	7.3	7.6	7.2	7.3
6	7.2	6.9	7.0	7.4	7.0	7.2	8.2	6.9	7.3	7.4	7.3	7.4
7	7.3	6.9	7.1	7.4	6.8	7.1	8.3	7.0	7.8	7.7	7.3	7.5
8	7.6	6.8	7.2	7.5	6.9	7.0	8.2	6.8	7.7	7.6	7.5	7.6
9	7.7	7.0	7.4	7.8	6.9	7.4	8.2	7.0	7.9	7.6	7.2	7.4
10	7.8	6.9	7.5	7.9	7.1	7.4	8.1	6.9	7.4	8.0	7.1	7.3
11	7.8	6.7	7.4	8.0	6.9	7.3	7.3	6.9	7.0	8.0	7.0	7.2
12	7.8	6.9	7.3	7.9	6.8	7.1	7.2	6.9	7.0	8.3	6.9	7.3
13	7.7	6.9	7.4	7.6	6.8	7.1	7.5	7.1	7.2	8.2	6.9	7.2
14	7.8	6.9	7.4	7.8	6.8	7.3	7.6	7.1	7.3	8.2	6.8	7.2
15	7.8	6.7	7.3	7.4	6.8	7.2	7.6	7.1	7.3	8.2	7.0	7.6
16	7.6	7.2	7.4	7.6	6.8	6.9	8.2	6.8	7.7	7.8	7.0	7.4
17	7.5	7.3	7.3	7.4	6.8	7.0	8.0	6.9	7.2	8.0	7.2	7.4
18	7.8	7.2	7.4	7.6	6.7	7.0	---	---	---	7.6	7.2	7.3
19	7.8	7.3	7.4	8.0	7.0	7.5	7.9	7.1	7.4	7.7	7.3	7.5
20	7.6	7.3	7.4	7.7	6.9	7.2	7.9	7.2	7.5	7.9	7.4	7.6
21	7.7	7.2	7.4	7.3	6.9	7.1	7.8	7.4	7.6	7.8	7.4	7.7
22	7.3	6.8	7.1	7.6	7.0	7.2	7.8	7.2	7.5	7.9	7.4	7.6
23	7.9	6.8	7.1	7.9	7.0	7.3	7.8	7.2	7.6	7.7	7.3	7.6
24	8.0	6.8	7.3	7.6	6.9	7.2	7.9	7.4	7.6	7.8	7.3	7.5
25	7.7	7.0	7.4	7.5	7.1	7.2	7.9	7.0	7.4	8.0	7.3	7.5
26	7.6	7.2	7.4	7.6	7.1	7.3	7.8	7.2	7.4	7.5	7.3	7.4
27	7.6	7.0	7.3	7.8	7.0	7.2	7.8	7.2	7.7	7.5	7.4	7.4
28	7.5	7.1	7.3	8.0	6.9	7.1	7.8	7.1	7.4	---	---	---
29	7.3	6.9	7.1	8.1	6.8	7.5	7.6	7.3	7.4	---	---	---
30	7.2	6.9	7.1	7.8	6.8	7.3	7.6	7.4	7.5	7.5	7.1	7.3
31	---	---	---	7.9	7.0	7.5	---	---	---	---	---	---
MONTH	8.0	6.5	7.2	8.3	6.7	7.2	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

TEMPERATURE, WATER (DEG. C), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	12.3	8.6	10.8	8.5	7.2	7.7
2	---	---	---	---	---	---	9.8	7.9	9.1	9.8	7.4	8.4
3	---	---	---	---	---	---	9.7	8.2	9.1	10.5	8.2	8.9
4	---	---	---	---	---	---	10.3	8.8	9.3	---	---	---
5	---	---	---	---	---	---	10.9	9.4	10.0	---	---	---
6	---	---	---	---	---	---	12.2	10.4	10.9	10.4	9.5	10.1
7	---	---	---	---	---	---	11.1	10.4	10.8	10.3	9.8	10.1
8	---	---	---	---	---	---	11.3	9.9	10.4	10.7	9.4	9.8
9	---	---	---	---	---	---	11.4	9.6	10.4	11.0	9.6	10.1
10	---	---	---	---	---	---	11.8	10.2	10.9	11.2	9.9	10.4
11	---	---	---	---	---	---	11.6	10.9	11.2	11.4	10.2	10.7
12	---	---	---	---	---	---	11.1	10.0	10.6	11.0	10.2	10.6
13	---	---	---	---	---	---	11.5	10.4	11.0	12.2	10.3	10.7
14	---	---	---	---	---	---	12.9	11.3	11.8	10.6	8.1	9.3
15	---	---	---	---	---	---	12.4	11.5	12.0	9.2	7.6	8.1
16	---	---	---	---	---	---	12.0	11.3	11.8	8.7	7.0	7.8
17	---	---	---	---	---	---	11.9	10.6	11.2	8.0	5.6	7.0
18	---	---	---	---	---	---	11.5	10.6	10.9	6.3	5.2	5.7
19	---	---	---	13.9	11.9	12.9	11.1	10.9	11.0	5.5	3.1	4.9
20	---	---	---	14.3	13.1	13.4	12.3	11.1	11.5	---	---	---
21	---	---	---	14.9	13.7	14.2	12.4	11.6	12.0	---	---	---
22	---	---	---	15.7	14.3	15.0	12.0	11.0	11.6	4.3	3.1	3.6
23	---	---	---	16.3	14.9	15.7	11.2	10.1	10.7	3.6	3.0	3.4
24	---	---	---	17.1	15.5	16.2	10.6	8.9	9.8	3.8	3.2	3.5
25	---	---	---	18.2	15.8	16.9	9.1	6.3	8.1	---	---	---
26	---	---	---	17.0	15.9	16.6	8.0	6.2	7.1	3.4	2.3	2.8
27	---	---	---	16.9	16.1	16.6	7.4	5.9	7.0	2.9	2.0	2.3
28	---	---	---	16.4	15.4	15.9	7.5	6.1	6.6	2.2	.7	1.7
29	---	---	---	15.8	14.9	15.4	---	---	---	2.2	.6	1.6
30	---	---	---	15.0	12.3	13.6	7.3	6.3	6.7	2.7	1.5	2.0
31	---	---	---	---	---	---	8.3	6.7	7.3	3.4	2.3	2.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.6	2.3	2.9	14.8	13.1	13.8	17.0	14.4	15.5	19.1	16.0	17.1
2	3.5	2.5	3.1	14.9	13.8	14.1	16.6	15.3	15.7	18.7	16.6	17.6
3	5.1	2.2	3.4	14.4	12.9	13.6	19.2	15.8	16.7	---	---	---
4	5.7	3.5	4.2	13.5	12.7	13.1	18.2	17.0	17.4	20.0	18.5	19.3
5	6.2	3.9	4.6	14.4	11.9	13.0	17.0	14.4	16.1	21.8	19.1	20.2
6	5.7	4.2	4.6	14.3	12.7	13.4	17.8	14.5	15.9	23.7	19.6	21.2
7	6.7	4.4	5.2	14.4	13.1	13.6	18.5	15.7	16.5	24.5	20.4	22.0
8	5.7	4.4	5.3	16.3	13.2	14.2	---	---	---	23.2	20.4	21.8
9	6.2	5.5	5.7	15.9	14.1	14.9	---	---	---	23.5	20.7	22.1
10	8.4	5.8	6.7	17.2	14.5	15.7	16.6	14.2	15.6	24.6	22.0	22.8
11	8.3	6.6	7.4	18.3	15.3	16.4	16.5	15.2	15.9	23.7	22.2	23.0
12	7.9	6.4	7.3	17.7	15.6	16.7	17.7	16.2	16.8	25.4	22.7	23.4
13	7.1	6.2	6.5	16.0	14.1	15.3	16.6	14.9	15.7	26.2	23.3	24.3
14	7.8	6.2	7.1	---	---	---	15.3	14.5	14.9	25.8	23.8	24.7
15	9.2	7.4	7.9	16.6	14.3	15.0	16.2	15.1	15.5	24.7	23.4	24.1
16	8.9	7.7	8.3	---	---	---	18.5	15.6	16.7	23.9	22.9	23.3
17	8.9	8.2	8.5	16.8	15.3	16.1	18.5	17.0	17.7	23.6	21.9	22.8
18	9.1	8.2	8.5	15.4	13.3	14.2	18.1	16.9	17.5	23.7	22.2	22.8
19	11.2	8.6	9.4	14.0	13.0	13.5	17.1	15.7	16.3	25.3	22.3	23.3
20	---	---	---	13.7	13.2	13.5	17.9	15.1	16.1	25.9	23.2	24.3
21	---	---	---	14.1	13.2	13.5	18.4	16.2	17.0	25.7	24.4	25.0
22	10.5	9.1	9.6	13.4	11.9	12.7	17.6	16.9	17.1	24.8	24.1	24.4
23	14.1	9.3	10.3	12.6	11.9	12.2	18.6	16.3	17.5	24.7	23.8	24.2
24	11.5	9.6	10.6	15.1	11.7	12.5	18.9	17.1	17.8	26.3	23.9	24.6
25	12.7	10.8	11.7	14.4	12.3	13.3	17.7	16.5	17.2	---	---	---
26	15.6	12.1	12.9	15.8	13.3	14.4	16.9	15.1	16.1	27.5	25.0	25.5
27	14.5	10.1	13.1	16.0	14.5	15.0	16.1	15.4	15.8	26.1	25.1	25.5
28	14.2	12.7	13.3	16.6	14.8	15.3	15.6	15.0	15.2	25.7	24.8	25.3
29	14.3	12.8	13.6	16.8	14.5	15.2	16.5	14.3	15.5	25.0	22.4	23.9
30	---	---	---	15.5	15.0	15.2	17.5	15.2	16.3	22.5	20.4	21.3
31	---	---	---	15.8	14.7	15.2	---	---	---	21.4	19.8	20.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

TEMPERATURE, WATER (DEG. C), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	20.4	21.5	28.8	26.8	27.6	28.8	27.7	28.2	---	---	---
2	26.4	21.3	23.8	28.7	26.7	27.7	28.8	28.0	28.3	28.0	26.6	27.1
3	25.5	23.3	24.3	28.0	26.7	27.4	28.6	27.8	28.2	28.2	27.0	27.5
4	23.9	23.0	23.5	27.4	26.4	27.0	28.3	27.5	27.9	27.8	27.3	27.6
5	23.5	22.6	23.1	28.2	26.8	27.2	28.7	27.1	27.6	27.4	25.7	26.9
6	24.1	22.7	23.3	28.5	27.1	27.7	29.1	27.3	28.2	25.9	23.7	24.9
7	23.6	21.7	22.5	28.0	27.0	27.6	29.5	28.1	28.7	24.6	23.4	24.1
8	24.4	22.1	22.9	28.3	26.6	27.4	30.3	28.3	29.2	24.9	23.7	24.2
9	24.9	22.5	23.6	27.5	26.7	27.0	30.9	29.1	29.8	25.4	23.8	24.5
10	25.7	23.4	24.4	27.6	26.3	26.9	31.6	28.8	30.1	26.1	24.2	25.0
11	26.8	24.4	25.4	29.1	27.0	27.7	30.5	29.0	29.5	26.9	24.9	25.6
12	27.8	25.0	26.3	28.4	27.0	27.6	29.5	28.1	28.8	27.5	25.2	26.1
13	28.6	25.4	26.8	27.5	26.5	27.0	28.6	27.2	28.0	27.6	26.3	26.7
14	30.2	26.3	27.9	27.7	26.5	27.1	27.4	26.0	26.8	28.2	26.0	26.9
15	29.2	27.0	28.2	28.2	26.6	27.1	28.7	26.1	27.1	27.6	26.0	26.8
16	28.5	27.9	28.2	29.0	26.8	27.6	28.1	26.3	27.2	26.3	24.4	25.3
17	28.3	27.8	28.0	29.5	26.9	27.6	28.6	26.9	27.5	24.6	23.5	24.0
18	28.8	27.4	28.0	30.4	27.5	28.5	---	---	---	23.8	22.9	23.3
19	29.6	27.8	28.4	29.3	28.2	28.8	27.9	26.7	27.4	23.5	23.0	23.2
20	28.2	27.4	27.9	28.8	27.2	28.0	27.3	26.0	26.6	24.3	23.0	23.6
21	28.5	26.9	27.7	27.6	26.5	27.0	26.5	25.3	26.0	25.1	23.9	24.4
22	28.6	27.4	28.1	28.0	26.3	26.9	26.2	24.5	25.5	25.2	24.4	24.8
23	29.9	27.6	28.2	28.0	26.5	27.1	26.0	24.8	25.4	24.6	24.2	24.4
24	29.6	27.6	28.8	27.0	26.4	26.7	27.3	25.4	26.1	25.9	24.0	24.7
25	29.3	28.0	28.7	26.4	25.5	26.0	26.7	25.9	26.3	26.1	24.5	25.0
26	29.2	28.4	28.8	26.1	25.6	25.9	26.8	25.6	26.1	25.0	23.2	24.2
27	29.4	28.4	28.8	27.0	25.6	26.0	26.9	25.7	26.1	23.3	22.1	22.6
28	29.2	28.2	28.7	28.6	25.9	26.9	26.6	25.7	26.1	---	---	---
29	28.5	27.8	28.2	28.6	27.1	27.7	26.6	25.7	26.1	---	---	---
30	28.7	27.3	27.8	28.5	27.4	27.9	26.3	25.6	25.8	21.9	20.8	21.3
31	---	---	---	28.3	27.0	27.6	---	---	---	---	---	---
MONTH	30.2	20.4	26.4	30.4	25.5	27.3	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	12.2	9.2	10.8	7.7	6.9	7.3
2	---	---	---	---	---	---	9.8	8.3	9.1	8.6	7.1	7.6
3	---	---	---	---	---	---	9.8	8.6	9.3	9.5	7.8	8.6
4	---	---	---	---	---	---	10.2	8.7	9.5	13.1	8.6	9.9
5	---	---	---	---	---	---	10.8	9.5	10.0	11.2	10.2	10.6
6	---	---	---	---	---	---	12.2	10.4	10.9	10.4	9.5	10.0
7	---	---	---	---	---	---	11.2	10.4	10.8	10.2	10.0	10.1
8	---	---	---	---	---	---	11.1	9.9	10.5	10.1	9.4	9.7
9	---	---	---	---	---	---	11.1	9.8	10.6	10.1	9.5	9.8
10	---	---	---	---	---	---	11.7	10.3	11.0	11.1	10.0	10.4
11	---	---	---	---	---	---	11.6	10.9	11.3	11.2	10.2	10.7
12	---	---	---	---	---	---	11.2	10.1	10.8	11.0	10.3	10.6
13	---	---	---	---	---	---	11.4	10.4	11.1	11.9	10.4	10.7
14	---	---	---	---	---	---	12.6	11.3	11.8	10.7	8.1	9.3
15	---	---	---	---	---	---	12.3	11.6	11.9	8.6	7.7	8.0
16	---	---	---	---	---	---	12.0	11.5	11.8	8.8	7.1	7.8
17	---	---	---	---	---	---	11.7	10.6	11.2	8.0	5.9	7.1
18	---	---	---	---	---	---	11.1	10.8	11.0	6.4	5.3	5.9
19	---	---	---	13.7	12.2	13.0	11.1	10.9	11.0	5.6	4.0	5.1
20	---	---	---	13.8	13.1	13.3	11.8	11.1	11.3	5.4	4.5	5.1
21	---	---	---	14.7	13.6	14.2	12.2	11.5	11.8	4.8	3.8	4.3
22	---	---	---	15.5	14.3	14.9	12.0	11.1	11.6	4.4	3.2	3.8
23	---	---	---	16.1	14.7	15.2	11.3	10.5	10.8	3.8	3.1	3.5
24	---	---	---	16.2	14.6	15.6	10.8	8.9	9.9	3.8	3.3	3.6
25	---	---	---	17.2	15.0	15.7	9.1	7.0	8.2	3.9	2.9	3.4
26	---	---	---	16.8	15.4	16.4	8.5	6.9	7.5	3.4	2.4	3.0
27	---	---	---	16.8	16.1	16.6	7.5	6.5	7.1	3.0	2.0	2.5
28	---	---	---	16.4	15.4	15.9	7.1	6.1	6.7	2.6	1.4	1.9
29	---	---	---	15.9	14.9	15.4	7.1	6.5	6.8	2.2	1.1	1.6
30	---	---	---	15.0	12.2	13.6	7.5	6.3	6.7	2.6	1.5	2.0
31	---	---	---	---	---	---	7.4	6.7	6.9	4.0	2.3	2.8
MONTH	---	---	---	---	---	---	12.6	6.1	10.0	13.1	1.1	6.7

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.1	2.5	3.1	14.4	13.0	13.6	16.1	14.8	15.4	18.2	16.1	16.8
2	3.5	2.5	3.2	14.7	13.6	14.1	16.3	15.3	15.7	18.6	16.6	17.4
3	4.8	2.7	3.7	13.9	13.0	13.5	19.2	15.8	16.7	19.3	17.9	18.5
4	4.7	3.5	3.9	13.6	12.7	13.1	18.3	17.0	17.4	20.0	18.5	19.2
5	5.4	3.9	4.6	13.8	11.9	12.6	17.0	14.0	16.1	21.2	19.2	20.0
6	5.3	4.2	4.6	14.0	12.7	13.3	17.8	14.5	15.9	22.6	19.6	20.5
7	6.2	4.5	5.2	14.0	12.6	13.4	18.5	15.7	16.4	23.4	20.3	21.2
8	5.7	4.9	5.4	15.4	13.2	13.9	18.2	16.1	17.0	23.2	20.4	21.5
9	6.0	5.4	5.7	15.8	13.5	14.7	17.0	15.1	16.1	23.5	20.5	22.0
10	7.1	5.8	6.2	16.7	14.5	15.3	16.6	14.1	15.6	24.4	21.9	22.8
11	8.3	5.8	7.2	18.3	15.0	16.4	16.5	15.2	15.8	23.6	22.2	22.9
12	8.0	6.4	7.3	17.7	15.1	16.7	17.5	16.1	16.7	24.5	22.7	23.2
13	7.0	6.1	6.4	16.0	14.3	15.3	16.6	14.9	15.7	25.5	23.2	24.0
14	8.0	6.1	6.9	---	---	---	15.2	14.5	14.9	25.5	23.8	24.6
15	8.6	7.3	7.8	15.1	14.3	14.8	16.3	15.1	15.5	24.6	23.4	24.0
16	9.3	7.5	8.2	---	---	---	17.5	15.6	16.3	23.7	22.8	23.2
17	8.9	8.2	8.6	16.8	15.4	16.1	18.4	16.2	17.3	23.5	21.9	22.7
18	8.7	7.9	8.3	15.4	13.3	14.3	18.0	16.8	17.4	23.7	22.2	22.8
19	10.9	8.6	9.3	14.2	13.0	13.6	17.1	15.7	16.3	24.5	22.4	23.2
20	---	---	---	13.7	13.2	13.5	16.8	15.2	15.8	25.5	23.2	24.0
21	---	---	---	14.0	13.3	13.5	18.4	16.0	16.9	25.4	23.6	24.8
22	10.0	9.1	9.5	13.4	12.0	12.7	17.7	17.0	17.2	24.8	24.0	24.3
23	10.4	9.4	9.6	12.6	11.9	12.2	18.2	16.5	17.3	24.5	23.8	24.1
24	11.8	9.6	10.2	13.7	11.8	12.4	18.3	17.0	17.6	25.3	23.9	24.4
25	12.8	10.5	11.6	14.2	12.3	13.0	17.7	16.5	17.2	---	---	---
26	13.6	11.5	12.5	15.7	13.2	14.1	16.8	15.1	16.1	25.6	25.0	25.2
27	13.7	9.8	12.8	15.9	13.9	14.9	16.3	15.4	15.8	25.9	25.1	25.5
28	14.0	12.6	13.3	16.5	14.8	15.3	15.8	15.0	15.3	25.7	24.9	25.4
29	14.2	12.8	13.4	16.0	14.5	15.1	16.2	14.7	15.4	25.0	22.5	24.0
30	---	---	---	15.4	15.0	15.2	17.2	15.3	16.2	22.5	20.5	21.3
31	---	---	---	15.6	14.7	15.1	---	---	---	20.7	20.0	20.4
MONTH	---	---	---	---	---	---	19.2	14.0	16.3	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.9	20.4	20.6	27.9	27.1	27.5	28.7	27.4	28.0	---	---	---
2	21.4	20.8	21.0	28.3	27.2	27.5	28.6	27.8	28.2	27.5	26.6	26.9
3	24.0	21.0	21.8	27.9	27.0	27.5	28.6	27.8	28.2	28.0	27.1	27.5
4	22.9	21.3	22.0	27.4	26.4	27.0	28.3	27.5	27.9	27.9	27.3	27.6
5	23.0	22.1	22.5	27.7	26.7	27.0	27.5	27.0	27.2	27.6	25.9	26.9
6	23.2	22.2	22.4	27.1	26.8	26.9	28.8	27.0	27.5	26.0	24.6	25.2
7	22.5	21.9	22.2	27.6	26.8	27.0	29.4	27.8	28.6	24.8	24.0	24.5
8	23.3	22.1	22.5	27.2	26.9	27.0	30.1	28.0	29.0	24.6	24.0	24.3
9	24.4	22.5	23.1	27.5	26.5	27.0	30.2	28.7	29.4	24.9	23.9	24.3
10	25.2	23.2	24.2	27.6	26.3	26.8	30.6	28.6	29.2	26.0	24.2	24.5
11	26.2	23.8	24.9	28.3	26.7	27.1	29.4	28.6	29.0	25.8	24.4	24.6
12	27.0	24.9	25.7	27.9	26.8	27.1	29.1	28.0	28.4	27.2	24.6	25.2
13	27.9	25.5	26.4	27.3	26.3	26.9	28.3	27.7	28.2	26.9	24.8	25.5
14	29.0	25.6	27.3	27.6	26.7	27.2	28.2	26.2	27.7	27.2	25.0	25.6
15	29.1	24.9	27.7	27.3	26.4	26.9	27.8	27.1	27.5	26.9	25.6	26.4
16	28.5	27.9	28.2	28.3	26.8	27.1	28.2	26.4	27.3	26.2	24.5	25.4
17	28.3	27.8	28.0	28.5	27.1	27.4	28.4	27.4	27.7	25.4	23.9	24.9
18	28.8	27.4	27.9	29.4	27.2	27.7	---	---	---	25.2	23.3	24.6
19	29.0	27.8	28.2	29.3	28.2	28.8	28.0	27.2	27.5	23.5	23.0	23.3
20	28.3	27.7	27.9	28.8	27.6	28.0	27.5	26.9	27.2	24.0	23.1	23.5
21	28.5	27.3	27.8	28.0	26.7	27.2	27.0	25.9	26.4	24.9	23.8	24.1
22	28.5	27.4	28.0	27.5	26.6	27.0	26.3	25.3	25.9	25.0	24.3	24.6
23	29.0	27.5	27.9	27.6	26.8	27.1	26.0	25.1	25.6	24.9	24.2	24.6
24	29.5	27.6	28.5	27.4	26.7	27.0	26.6	25.4	25.7	24.9	24.0	24.2
25	29.2	28.3	28.7	27.0	26.0	26.4	26.5	25.6	26.0	25.7	24.2	24.7
26	29.2	28.4	28.7	26.2	25.8	26.0	26.2	25.5	25.9	25.0	23.2	24.2
27	29.2	28.4	28.7	26.6	25.9	26.0	26.8	25.6	26.1	23.3	22.3	22.7
28	29.1	28.3	28.7	27.6	26.0	26.4	26.5	25.8	26.1	---	---	---
29	28.6	27.8	28.2	28.6	26.5	27.5	26.5	25.8	26.1	---	---	---
30	27.9	27.5	27.8	28.1	26.7	27.5	26.4	25.6	25.8	22.4	21.5	21.9
31	---	---	---	28.2	27.1	27.6	---	---	---	---	---	---
MONTH	29.5	20.4	25.9	29.4	25.8	27.1	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

OXYGEN DISSOLVED (MG/L), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	11.0	9.9	10.4	14.2	11.5	12.5
2	---	---	---	---	---	---	11.0	10.5	10.7	13.9	12.0	12.9
3	---	---	---	---	---	---	11.4	10.6	10.9	13.5	11.9	12.6
4	---	---	---	---	---	---	11.4	10.8	11.0	---	---	---
5	---	---	---	---	---	---	11.8	10.8	11.3	---	---	---
6	---	---	---	---	---	---	11.6	10.7	11.2	---	---	---
7	---	---	---	---	---	---	11.2	10.3	10.8	---	---	---
8	---	---	---	---	---	---	11.9	10.3	10.9	---	---	---
9	---	---	---	---	---	---	11.8	10.4	11.2	---	---	---
10	---	---	---	---	---	---	11.6	10.2	10.9	---	---	---
11	---	---	---	---	---	---	10.9	10.0	10.5	---	---	---
12	---	---	---	---	---	---	11.3	10.0	10.6	---	---	---
13	---	---	---	---	---	---	10.9	10.2	10.5	12.0	10.5	11.0
14	---	---	---	---	---	---	10.7	9.9	10.3	11.1	10.6	10.8
15	---	---	---	---	---	---	10.8	9.6	10.3	12.6	10.7	11.2
16	---	---	---	---	---	---	11.2	9.9	10.5	12.2	10.7	11.2
17	---	---	---	---	---	---	11.3	9.8	10.5	12.2	11.1	11.4
18	---	---	---	---	---	---	11.7	9.7	10.5	12.3	11.3	11.6
19	---	---	---	10.2	8.9	9.6	11.0	10.2	10.7	12.5	11.4	11.9
20	---	---	---	10.4	9.2	9.6	11.1	9.8	10.4	---	---	---
21	---	---	---	11.6	9.6	10.4	11.3	9.8	10.5	---	---	---
22	---	---	---	11.3	9.9	10.3	11.2	9.9	10.5	12.9	11.7	12.2
23	---	---	---	10.8	9.7	10.0	11.0	9.8	10.4	12.9	12.2	12.5
24	---	---	---	10.0	9.1	9.6	11.4	10.2	10.8	12.5	11.8	12.2
25	---	---	---	10.8	8.7	9.7	12.5	10.7	11.5	---	---	---
26	---	---	---	9.6	8.0	8.9	12.5	10.7	11.8	12.5	11.7	12.2
27	---	---	---	9.3	8.2	8.6	12.6	11.4	12.0	12.9	12.1	12.5
28	---	---	---	9.3	8.3	8.7	12.5	11.1	11.8	13.7	12.6	13.1
29	---	---	---	9.1	8.4	8.7	---	---	---	13.9	12.9	13.3
30	---	---	---	10.1	8.8	9.5	12.8	11.7	12.3	13.5	12.5	13.0
31	---	---	---	---	---	---	13.4	11.9	12.4	13.1	11.9	12.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	12.6	12.9	---	---	---	---	---	---	---	---	---
2	13.1	12.5	12.8	---	---	---	---	---	---	---	---	---
3	13.2	12.4	12.8	---	---	---	---	---	---	---	---	---
4	14.9	12.4	13.1	---	---	---	---	---	---	8.9	8.5	8.7
5	14.2	12.5	13.2	---	---	---	---	---	---	9.0	7.9	8.6
6	14.6	12.5	13.0	---	---	---	---	---	---	9.4	7.7	8.7
7	13.9	12.5	13.2	---	---	---	---	---	---	9.9	7.7	8.9
8	13.7	12.5	13.0	---	---	---	---	---	---	9.1	7.2	8.5
9	12.7	12.1	12.4	---	---	---	---	---	---	8.9	7.5	8.3
10	15.2	12.1	13.2	---	---	---	---	---	---	8.6	7.7	8.1
11	14.6	12.8	13.7	---	---	---	---	---	---	8.2	7.0	7.6
12	---	---	---	---	---	---	---	---	---	8.1	6.4	7.1
13	---	---	---	---	---	---	---	---	---	8.4	6.4	7.3
14	---	---	---	---	---	---	---	---	---	8.5	6.2	7.3
15	---	---	---	---	---	---	---	---	---	8.0	6.7	7.2
16	---	---	---	---	---	---	---	---	---	7.9	6.6	7.1
17	---	---	---	---	---	---	---	---	---	7.9	6.5	7.1
18	---	---	---	---	---	---	---	---	---	7.8	5.7	7.2
19	---	---	---	---	---	---	---	---	---	8.3	7.1	7.6
20	---	---	---	---	---	---	---	---	---	8.9	7.1	7.9
21	---	---	---	---	---	---	---	---	---	8.9	7.3	8.0
22	---	---	---	---	---	---	---	---	---	7.9	6.4	7.3
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	8.1	6.5	7.0
27	---	---	---	---	---	---	---	---	---	8.0	6.6	7.4
28	---	---	---	---	---	---	---	---	---	7.6	6.5	7.1
29	---	---	---	---	---	---	---	---	---	8.0	6.8	7.2
30	---	---	---	---	---	---	---	---	---	8.8	7.8	8.3
31	---	---	---	---	---	---	---	---	---	9.2	8.4	8.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

OXYGEN DISSOLVED (MG/L), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.1	6.6	8.5	7.8	6.2	7.0	7.5	5.6	6.4	---	---	---
2	9.1	6.9	8.4	8.2	6.0	6.9	7.4	5.9	6.5	7.5	5.5	6.5
3	8.6	6.5	8.0	8.2	6.2	7.2	7.0	5.6	6.3	8.0	6.0	6.8
4	8.0	6.9	7.4	7.9	5.9	6.9	7.0	5.6	6.4	7.6	6.1	6.8
5	8.0	7.0	7.5	8.4	6.5	7.2	9.4	6.1	7.2	6.8	5.6	6.2
6	8.5	5.9	7.6	7.7	6.6	7.1	9.4	6.8	8.0	7.2	6.3	6.7
7	8.1	5.8	7.0	7.6	6.3	6.9	9.0	6.6	7.5	7.5	6.6	7.0
8	9.2	7.4	8.1	8.3	4.6	6.7	8.3	6.5	7.3	8.5	6.8	7.5
9	9.1	6.6	8.1	7.8	5.7	7.3	9.8	7.0	7.9	10.6	7.1	8.5
10	9.3	7.5	8.3	8.1	6.3	7.1	8.7	5.2	7.3	11.2	8.0	9.4
11	9.3	8.0	8.6	9.2	6.6	7.6	8.1	4.6	6.3	10.1	7.5	8.8
12	9.7	7.9	8.8	8.6	5.0	7.1	7.8	4.6	6.1	10.9	7.1	8.7
13	9.5	7.5	8.2	7.4	6.2	6.9	8.3	4.4	6.8	11.2	8.6	9.2
14	8.5	6.5	7.5	7.5	6.3	7.0	7.1	5.2	6.0	10.6	6.9	8.5
15	7.9	6.1	7.0	8.0	5.9	6.5	9.0	5.2	6.6	8.4	6.1	7.3
16	7.3	6.4	6.9	7.9	4.7	6.5	8.4	5.7	7.3	7.5	5.3	6.5
17	7.2	6.4	6.8	6.0	4.1	5.2	7.5	4.4	6.3	8.4	5.7	6.7
18	8.1	6.2	7.2	7.3	5.0	6.1	---	---	---	7.1	5.8	6.5
19	8.4	6.8	7.5	8.2	5.5	6.9	7.5	5.5	6.4	7.2	5.2	6.4
20	7.5	6.6	7.0	7.3	5.3	6.3	7.4	5.9	6.3	7.4	5.8	6.7
21	8.0	6.6	7.1	6.9	5.4	6.3	6.5	5.0	5.9	7.1	6.0	6.5
22	7.2	6.3	6.7	8.2	6.2	7.0	6.9	5.1	5.9	6.7	5.7	6.2
23	9.1	6.2	7.2	7.7	5.8	6.7	7.2	5.6	6.4	6.8	5.6	6.0
24	8.9	5.9	7.7	7.7	6.1	6.5	7.4	5.7	6.5	8.2	5.6	6.6
25	8.1	6.4	7.2	7.1	6.3	6.6	6.8	4.7	5.9	8.1	5.4	6.5
26	8.0	6.7	7.3	7.6	5.6	6.8	6.6	4.6	5.6	7.0	5.5	6.4
27	7.8	6.7	7.3	9.0	6.2	7.3	6.2	5.2	5.8	7.2	5.8	6.7
28	7.4	6.5	6.9	9.5	5.7	7.9	6.1	4.6	5.3	---	---	---
29	6.8	6.2	6.5	9.1	6.9	7.7	6.0	4.6	5.0	---	---	---
30	7.6	5.8	6.4	8.1	5.4	6.8	6.1	4.9	5.6	8.3	7.1	7.5
31	---	---	---	7.1	5.0	6.1	---	---	---	---	---	---
MONTH	9.7	5.8	7.5	9.5	4.1	6.8	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	10.3	9.5	9.9	11.8	10.9	11.4
2	---	---	---	---	---	---	10.6	10.0	10.3	12.3	10.5	11.5
3	---	---	---	---	---	---	10.8	9.9	10.4	12.3	10.5	11.8
4	---	---	---	---	---	---	10.9	10.1	10.6	12.0	10.0	11.1
5	---	---	---	---	---	---	11.2	10.3	10.7	11.8	10.3	10.9
6	---	---	---	---	---	---	11.0	9.9	10.6	11.1	10.0	10.5
7	---	---	---	---	---	---	10.5	9.5	10.1	10.9	9.7	10.3
8	---	---	---	---	---	---	10.5	8.8	10.0	10.6	9.4	10.2
9	---	---	---	---	---	---	11.2	8.5	10.0	10.8	9.7	10.3
10	---	---	---	---	---	---	10.8	8.7	9.8	10.6	9.3	10.0
11	---	---	---	---	---	---	10.1	9.1	9.6	10.6	9.5	10.1
12	---	---	---	---	---	---	10.8	9.0	9.8	11.3	9.5	10.2
13	---	---	---	---	---	---	10.1	8.9	9.6	11.4	9.9	10.5
14	---	---	---	---	---	---	10.1	8.8	9.5	10.7	10.2	10.4
15	---	---	---	---	---	---	10.2	9.0	9.6	11.0	10.1	10.5
16	---	---	---	---	---	---	10.4	8.9	9.7	11.6	10.4	10.9
17	---	---	---	---	---	---	10.2	9.1	9.6	11.7	10.7	11.0
18	---	---	---	---	---	---	10.0	8.9	9.5	11.3	10.2	10.9
19	---	---	---	9.7	8.1	9.0	10.2	9.0	9.5	11.9	9.9	11.2
20	---	---	---	9.7	8.4	9.3	10.3	8.9	9.5	12.0	10.6	11.5
21	---	---	---	11.4	9.4	10.0	10.6	8.7	9.7	12.2	11.2	11.7
22	---	---	---	10.9	9.4	10.2	10.6	8.7	9.5	12.3	7.9	11.0
23	---	---	---	10.3	8.1	9.5	10.2	8.6	9.4	12.4	10.8	11.9
24	---	---	---	9.4	6.9	8.8	10.5	8.8	9.8	12.3	11.8	12.1
25	---	---	---	9.7	6.5	8.4	11.0	9.6	10.2	12.4	11.4	12.1
26	---	---	---	9.3	6.8	8.3	11.0	9.7	10.5	12.6	11.4	12.1
27	---	---	---	8.7	7.8	8.2	11.6	10.2	10.9	13.0	11.6	12.4
28	---	---	---	8.8	8.0	8.3	11.5	10.4	10.9	13.4	11.3	12.9
29	---	---	---	8.8	7.9	8.3	11.8	10.5	11.1	13.6	12.1	13.0
30	---	---	---	9.6	8.5	9.1	11.7	10.7	11.2	13.6	12.7	13.2
31	---	---	---	---	---	---	11.8	10.8	11.3	13.2	12.3	12.8
MONTH	---	---	---	---	---	---	11.8	8.5	10.1	13.6	7.9	11.3

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.4	12.2	13.0	12.2	10.9	11.7	---	---	---	---	---	---
2	13.5	10.9	13.1	12.3	10.9	11.9	---	---	---	---	---	---
3	13.8	11.0	13.2	12.4	11.5	11.9	---	---	---	---	---	---
4	13.9	12.2	13.3	12.6	11.4	12.0	---	---	---	8.9	7.4	8.5
5	14.7	11.8	13.7	13.0	11.3	12.0	---	---	---	9.1	7.1	8.5
6	14.8	13.1	13.7	13.1	11.5	12.4	---	---	---	9.4	7.2	8.5
7	14.6	12.9	13.8	---	---	---	---	---	---	9.7	7.0	8.5
8	14.5	12.0	13.7	---	---	---	---	---	---	9.4	7.0	8.4
9	13.4	11.7	13.1	---	---	---	---	---	---	9.2	7.4	8.5
10	14.5	12.4	13.3	---	---	---	---	---	---	9.0	7.8	8.4
11	14.8	12.5	13.9	---	---	---	---	---	---	9.0	7.3	8.2
12	14.8	12.1	13.2	---	---	---	---	---	---	8.7	7.0	7.9
13	13.0	11.8	12.2	---	---	---	---	---	---	9.1	7.2	8.1
14	12.6	11.2	12.0	---	---	---	---	---	---	9.2	7.2	8.2
15	12.8	11.6	12.2	---	---	---	---	---	---	8.5	6.8	8.0
16	13.0	11.7	12.5	---	---	---	---	---	---	8.7	6.4	7.7
17	12.9	12.2	12.5	---	---	---	---	---	---	8.6	6.2	7.8
18	12.7	11.8	12.3	---	---	---	---	---	---	8.5	6.3	7.9
19	12.9	11.8	12.2	---	---	---	---	---	---	9.0	7.8	8.3
20	---	---	---	---	---	---	---	---	---	9.6	7.5	8.5
21	---	---	---	---	---	---	---	---	---	9.3	6.1	8.4
22	13.0	12.1	12.5	---	---	---	---	---	---	8.3	6.0	7.3
23	13.3	12.0	12.6	---	---	---	---	---	---	---	---	---
24	13.7	11.9	12.7	---	---	---	---	---	---	---	---	---
25	14.0	12.3	13.5	---	---	---	---	---	---	---	---	---
26	14.4	12.1	13.5	---	---	---	---	---	---	6.3	5.4	5.9
27	13.8	9.6	12.7	---	---	---	---	---	---	7.2	5.2	6.5
28	12.5	11.2	12.0	---	---	---	---	---	---	6.8	5.4	6.3
29	12.2	11.6	11.8	---	---	---	---	---	---	7.4	6.0	6.7
30	---	---	---	---	---	---	---	---	---	8.1	7.2	7.7
31	---	---	---	---	---	---	---	---	---	8.2	7.2	7.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	5.9	7.2	7.2	4.9	6.1	7.8	3.7	6.8	---	---	---
2	7.4	5.5	6.2	8.2	4.6	6.4	7.2	4.2	6.2	7.5	5.5	6.4
3	8.0	4.4	5.7	8.3	5.1	7.2	7.1	5.7	6.3	7.8	5.8	6.7
4	6.0	4.0	4.9	7.7	6.1	6.9	7.0	5.6	6.4	7.2	4.7	6.4
5	7.0	4.5	5.3	8.2	5.7	6.6	6.9	5.2	5.8	7.1	5.0	5.9
6	7.1	4.4	5.0	6.3	3.7	5.0	8.2	3.3	5.3	6.9	6.1	6.6
7	7.0	4.1	5.4	5.6	1.8	3.3	8.4	3.8	6.9	7.6	6.4	6.9
8	8.4	4.4	6.4	6.5	1.4	2.5	8.0	3.3	6.3	7.5	6.6	7.1
9	8.8	6.7	7.8	7.8	1.3	6.0	7.5	4.1	6.4	7.4	5.3	6.5
10	9.2	5.4	8.1	8.3	6.4	7.3	7.2	3.8	5.4	9.5	4.9	6.5
11	9.1	3.8	8.1	8.6	4.1	6.8	5.4	2.7	4.0	9.2	4.8	6.2
12	9.1	6.1	7.8	8.1	3.0	5.0	4.6	.2	1.9	10.4	4.0	5.9
13	10.0	5.8	8.2	7.0	2.5	4.6	5.2	.8	1.8	9.1	3.3	5.5
14	7.8	3.9	6.9	7.2	.8	5.4	5.5	.7	2.9	8.0	1.8	4.1
15	7.5	2.7	6.3	6.1	3.2	5.5	5.3	1.9	3.3	7.6	2.2	5.6
16	7.4	5.9	6.9	6.5	2.3	3.8	8.0	.2	5.9	6.9	1.9	4.7
17	7.3	6.6	6.9	5.9	2.6	4.0	7.1	.5	3.2	8.2	3.3	4.8
18	7.6	6.4	7.0	6.3	1.8	3.2	---	---	---	6.7	2.5	4.1
19	7.7	6.4	7.1	7.7	4.3	6.3	6.4	3.0	4.7	7.7	5.7	6.8
20	7.2	6.1	6.6	7.0	2.3	5.1	6.6	3.7	4.6	8.6	6.5	7.6
21	7.5	5.4	6.5	6.5	1.4	5.0	5.7	4.1	4.8	8.3	6.2	7.7
22	7.1	6.1	6.5	7.0	2.0	4.7	6.2	2.7	4.6	8.1	5.9	6.8
23	8.2	5.6	6.3	7.5	1.8	4.8	6.6	2.9	5.5	7.8	5.4	7.0
24	8.2	4.9	6.6	7.2	2.2	5.1	7.4	4.9	6.0	7.9	6.0	6.7
25	7.5	5.7	6.7	6.6	3.2	4.6	7.2	2.4	4.9	---	---	---
26	8.4	7.0	7.7	7.1	4.2	5.5	6.9	3.3	4.7	---	---	---
27	8.1	6.4	7.4	7.6	3.6	5.1	7.0	4.2	6.3	---	---	---
28	8.8	6.1	7.1	8.0	2.5	4.7	6.4	3.1	5.1	---	---	---
29	8.0	5.7	7.0	8.8	4.3	6.8	6.1	4.4	5.2	---	---	---
30	6.5	5.3	6.1	7.4	3.1	5.8	6.4	5.1	5.7	7.7	5.7	6.5
31	---	---	---	8.0	5.3	6.7	---	---	---	---	---	---
MONTH	10.0	2.7	6.7	8.8	.8	5.3	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	100	95	98	126	101	110
2	---	---	---	---	---	---	100	95	97	126	105	115
3	---	---	---	---	---	---	104	95	99	123	107	114
4	---	---	---	---	---	---	106	98	100	---	---	---
5	---	---	---	---	---	---	111	99	104	---	---	---
6	---	---	---	---	---	---	110	100	106	---	---	---
7	---	---	---	---	---	---	105	97	102	---	---	---
8	---	---	---	---	---	---	112	96	101	---	---	---
9	---	---	---	---	---	---	113	97	104	---	---	---
10	---	---	---	---	---	---	110	97	103	---	---	---
11	---	---	---	---	---	---	104	95	100	---	---	---
12	---	---	---	---	---	---	106	94	100	---	---	---
13	---	---	---	---	---	---	103	96	99	117	100	105
14	---	---	---	---	---	---	104	95	99	104	98	100
15	---	---	---	---	---	---	104	92	99	115	96	100
16	---	---	---	---	---	---	108	95	101	109	95	99
17	---	---	---	---	---	---	108	92	99	103	97	99
18	---	---	---	---	---	---	111	90	99	103	95	98
19	---	---	---	103	87	95	104	96	100	103	94	97
20	---	---	---	106	92	97	106	92	99	---	---	---
21	---	---	---	119	97	105	110	94	101	---	---	---
22	---	---	---	118	101	107	107	94	100	103	94	97
23	---	---	---	114	101	105	104	92	97	103	96	99
24	---	---	---	108	96	102	104	94	99	99	94	96
25	---	---	---	117	92	104	108	94	103	---	---	---
26	---	---	---	103	86	95	110	95	103	98	92	95
27	---	---	---	99	88	91	110	100	105	100	92	95
28	---	---	---	98	87	91	109	96	102	104	94	98
29	---	---	---	93	87	90	---	---	---	104	94	98
30	---	---	---	99	90	95	111	102	107	99	96	98
31	---	---	---	---	---	---	120	103	109	102	92	98
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	103	94	98	---	---	---	---	---	---	---	---	---
2	102	96	99	---	---	---	---	---	---	---	---	---
3	105	94	99	---	---	---	---	---	---	---	---	---
4	123	96	103	---	---	---	---	---	---	103	95	99
5	116	98	106	---	---	---	---	---	---	106	91	100
6	118	99	104	---	---	---	---	---	---	115	89	103
7	115	100	107	---	---	---	---	---	---	124	91	107
8	112	101	105	---	---	---	---	---	---	111	85	102
9	105	99	102	---	---	---	---	---	---	109	89	100
10	134	99	112	---	---	---	---	---	---	106	93	99
11	129	110	119	---	---	---	---	---	---	99	85	93
12	---	---	---	---	---	---	---	---	---	104	78	87
13	---	---	---	---	---	---	---	---	---	106	79	92
14	---	---	---	---	---	---	---	---	---	109	78	93
15	---	---	---	---	---	---	---	---	---	100	84	91
16	---	---	---	---	---	---	---	---	---	99	81	88
17	---	---	---	---	---	---	---	---	---	99	80	88
18	---	---	---	---	---	---	---	---	---	98	71	89
19	---	---	---	---	---	---	---	---	---	106	88	95
20	---	---	---	---	---	---	---	---	---	114	90	101
21	---	---	---	---	---	---	---	---	---	114	93	103
22	---	---	---	---	---	---	---	---	---	101	82	94
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	106	83	89
27	---	---	---	---	---	---	---	---	---	103	85	94
28	---	---	---	---	---	---	---	---	---	97	83	90
29	---	---	---	---	---	---	---	---	---	96	84	89
30	---	---	---	---	---	---	---	---	---	102	93	98
31	---	---	---	---	---	---	---	---	---	108	97	101
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	110	76	99	107	82	93	102	75	85	---	---	---
2	115	80	101	110	80	92	101	78	87	103	73	87
3	106	78	98	110	83	96	94	75	84	110	81	92
4	96	82	89	106	79	92	93	75	85	102	82	92
5	96	85	89	114	87	96	127	80	96	90	74	81
6	103	71	91	104	88	96	128	90	107	90	81	85
7	98	71	85	101	85	92	123	88	101	96	84	88
8	114	89	98	110	60	87	112	86	99	108	85	95
9	116	81	100	101	74	94	135	95	108	136	89	108
10	119	94	105	108	81	92	125	72	101	146	102	121
11	122	100	110	125	85	99	113	63	87	134	95	114
12	128	100	114	115	65	93	108	62	83	143	91	114
13	125	98	108	98	81	90	112	60	92	150	112	121
14	117	86	100	100	81	91	97	71	81	139	90	113
15	106	81	95	107	78	85	125	70	90	113	81	97
16	100	86	93	106	62	86	116	77	99	98	69	85
17	97	86	91	82	54	69	103	60	87	106	72	86
18	111	83	96	100	66	81	---	---	---	88	74	82
19	116	91	101	113	74	94	102	74	87	91	66	80
20	101	89	94	99	72	84	98	76	84	94	73	84
21	107	88	95	91	71	82	86	66	77	91	76	83
22	98	84	90	110	80	92	92	65	77	87	73	79
23	124	82	97	102	75	88	92	73	83	86	70	76
24	121	78	104	100	80	85	99	73	85	105	70	83
25	111	86	97	92	81	86	90	62	78	105	68	82
26	108	91	99	97	72	86	87	61	73	89	69	79
27	108	90	98	119	79	94	82	69	76	88	70	81
28	100	88	94	130	74	105	82	61	71	---	---	---
29	92	83	87	123	92	103	82	61	67	---	---	---
30	102	75	86	110	72	91	82	65	74	102	85	90
31	---	---	---	96	66	81	---	---	---	---	---	---
MONTH	128	71	97	130	54	90	---	---	---	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	98	93	95	110	102	106
2	---	---	---	---	---	---	98	93	95	116	99	107
3	---	---	---	---	---	---	101	93	97	118	100	112
4	---	---	---	---	---	---	103	94	98	116	100	109
5	---	---	---	---	---	---	108	97	102	117	103	108
6	---	---	---	---	---	---	107	96	102	110	99	104
7	---	---	---	---	---	---	102	93	98	108	96	103
8	---	---	---	---	---	---	102	87	97	103	93	100
9	---	---	---	---	---	---	109	84	96	106	96	102
10	---	---	---	---	---	---	104	86	96	106	94	101
11	---	---	---	---	---	---	99	90	95	108	95	101
12	---	---	---	---	---	---	105	89	95	108	90	100
13	---	---	---	---	---	---	98	87	94	110	95	100
14	---	---	---	---	---	---	102	88	95	100	94	96
15	---	---	---	---	---	---	102	89	96	99	90	95
16	---	---	---	---	---	---	105	90	97	104	92	96
17	---	---	---	---	---	---	101	90	95	99	91	96
18	---	---	---	---	---	---	99	88	94	95	87	93
19	---	---	---	99	82	90	100	89	94	99	83	93
20	---	---	---	98	84	93	101	89	94	99	88	95
21	---	---	---	118	95	102	107	88	98	99	92	95
22	---	---	---	115	97	106	104	88	95	98	64	89
23	---	---	---	107	84	98	101	86	93	99	86	94
24	---	---	---	100	72	93	102	87	95	98	93	96
25	---	---	---	105	68	89	101	92	96	97	91	96
26	---	---	---	100	72	90	102	93	97	99	91	96
27	---	---	---	94	85	89	106	95	101	101	90	96
28	---	---	---	94	85	88	105	94	100	102	85	98
29	---	---	---	92	84	88	108	97	102	104	91	98
30	---	---	---	96	89	92	108	98	102	104	96	101
31	---	---	---	---	---	---	109	98	103	104	95	100
MONTH	---	---	---	---	---	---	109	84	97	118	64	99

0208457150 PUNGO RIVER AT CHANNEL LIGHT 7--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	106	94	101	126	110	120	---	---	---	---	---	---
2	107	86	103	128	112	123	---	---	---	---	---	---
3	110	87	105	129	118	122	---	---	---	---	---	---
4	113	96	106	129	116	122	---	---	---	101	82	95
5	121	96	111	134	114	121	---	---	---	107	80	96
6	122	104	111	135	120	127	---	---	---	112	82	98
7	122	105	114	---	---	---	---	---	---	118	80	99
8	119	98	113	---	---	---	---	---	---	114	82	100
9	112	98	108	---	---	---	---	---	---	113	86	102
10	124	103	112	---	---	---	---	---	---	110	94	102
11	131	105	121	---	---	---	---	---	---	111	89	100
12	130	103	115	---	---	---	---	---	---	108	85	97
13	112	100	104	---	---	---	---	---	---	117	90	101
14	110	96	104	---	---	---	---	---	---	118	90	103
15	115	102	108	---	---	---	---	---	---	108	86	100
16	118	104	112	---	---	---	---	---	---	109	80	96
17	116	110	113	---	---	---	---	---	---	108	76	97
18	115	107	111	---	---	---	---	---	---	108	79	99
19	121	108	113	---	---	---	---	---	---	115	98	104
20	---	---	---	---	---	---	---	---	---	124	95	108
21	---	---	---	---	---	---	---	---	---	120	78	108
22	123	114	117	---	---	---	---	---	---	107	77	95
23	124	113	118	---	---	---	---	---	---	---	---	---
24	133	112	120	---	---	---	---	---	---	---	---	---
25	138	119	132	---	---	---	---	---	---	---	---	---
26	144	120	134	---	---	---	---	---	---	80	68	74
27	139	93	128	---	---	---	---	---	---	91	66	82
28	126	114	121	---	---	---	---	---	---	86	69	80
29	124	117	120	---	---	---	---	---	---	89	75	82
30	---	---	---	---	---	---	---	---	---	94	85	90
31	---	---	---	---	---	---	---	---	---	95	84	90
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	95	69	85	97	66	82	106	49	91	---	---	---
2	88	65	72	111	61	86	98	56	83	101	74	86
3	98	52	68	111	68	96	95	76	85	106	77	90
4	73	48	60	103	81	91	94	74	85	97	63	86
5	85	55	65	111	76	88	92	69	78	95	66	78
6	86	55	62	84	51	68	110	44	71	88	78	84
7	86	49	66	75	24	45	115	51	94	98	81	88
8	103	54	78	86	20	34	111	43	86	96	85	92
9	109	82	95	102	16	78	104	56	87	95	68	83
10	116	68	102	110	82	96	101	53	73	125	64	83
11	117	48	103	114	54	89	75	37	56	120	61	79
12	121	78	101	107	39	66	63	3	27	138	50	77
13	131	74	107	91	33	60	71	12	26	120	43	71
14	106	51	92	96	11	71	74	10	40	107	23	54
15	103	35	85	80	42	71	73	27	46	102	29	75
16	100	79	94	86	30	49	109	3	80	90	26	61
17	98	88	93	79	33	53	99	8	44	105	43	62
18	104	86	94	85	24	43	---	---	---	86	32	52
19	106	87	96	107	58	85	88	41	65	96	72	85
20	98	82	89	96	31	70	88	50	62	108	81	95
21	101	74	89	86	18	66	76	54	64	105	78	97
22	94	82	87	94	26	62	80	36	61	104	74	87
23	110	72	82	100	23	63	85	37	71	97	68	88
24	105	60	84	94	29	67	99	64	77	100	74	83
25	92	69	82	84	41	59	95	31	65	---	---	---
26	101	82	92	91	54	71	92	44	62	---	---	---
27	97	74	86	102	45	66	94	55	83	---	---	---
28	101	65	79	108	34	63	85	42	68	---	---	---
29	91	77	85	120	56	91	81	59	69	---	---	---
30	87	71	81	99	41	78	86	70	76	95	72	80
31	---	---	---	108	70	89	---	---	---	---	---	---
MONTH	131	35	85	120	11	71	---	---	---	---	---	---

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - UPSTREAM STAGE

LOCATION.--Lat 35°39'32", long 75°53'20", Dare County, Hydrologic Unit 03020105, on upstream side of culvert at intersection of Stomper Road and Whipping Creek road, 0.9 mi north of U.S. Highway 264, and 2.2 mi south of U.S. Air Force Dare County Bombing Range.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

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

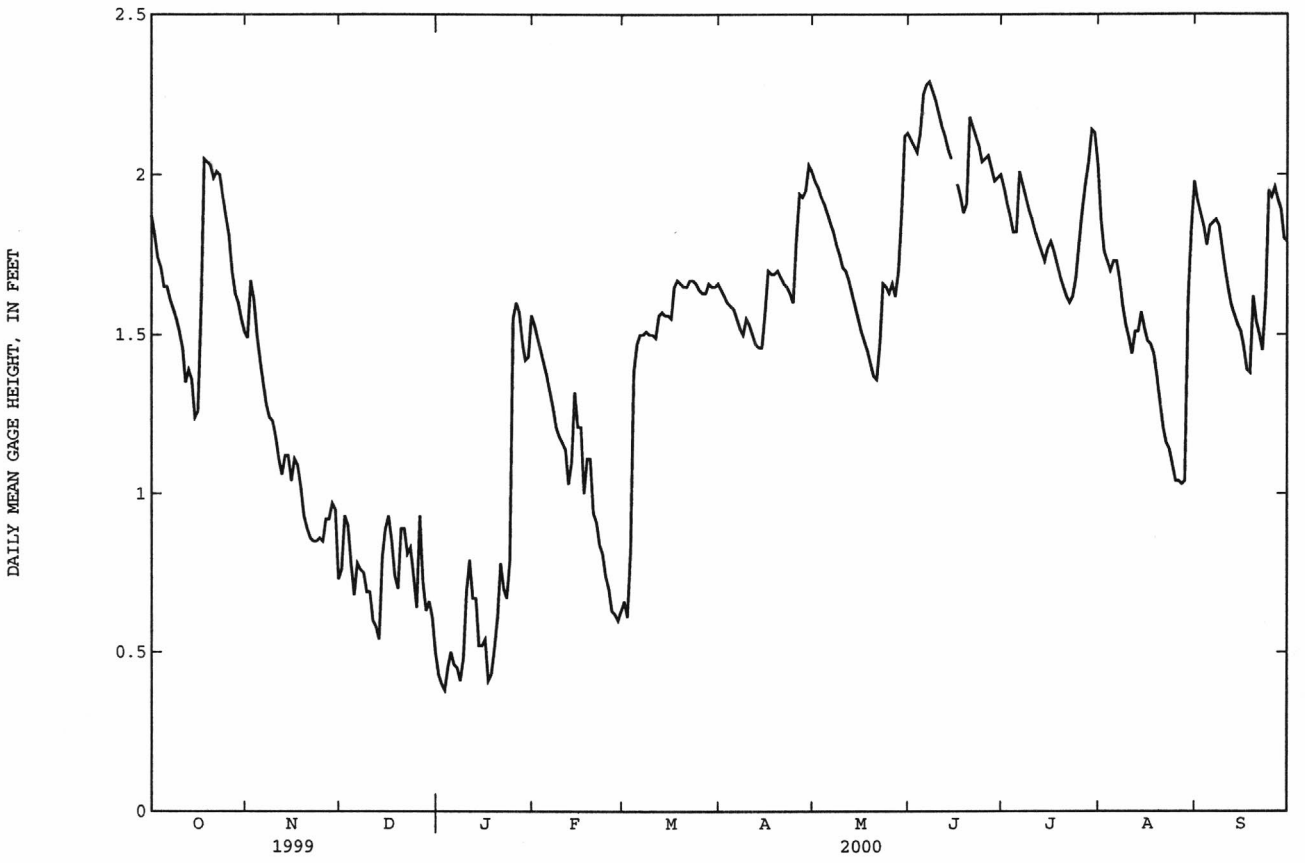
REMARKS.--Station operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 3.13 ft, Sept. 16, 1999; minimum, 0.33 ft, Jan. 3, 2000.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.87	1.49	.76	.43	1.53	.66	1.64	1.98	2.11	1.96	1.86	1.92
2	1.81	1.67	.93	.40	1.49	.61	1.62	1.96	2.09	1.91	1.76	1.88
3	1.74	1.61	.90	.38	1.45	.82	1.60	1.93	2.07	1.87	1.73	1.84
4	1.71	1.50	.78	.45	1.41	1.38	1.59	1.91	2.13	1.82	1.70	1.78
5	1.65	1.42	.68	.50	1.37	1.47	1.58	1.88	2.25	1.82	1.73	1.84
6	1.65	1.35	.78	.46	1.32	1.50	1.55	1.85	2.28	2.01	1.73	1.85
7	1.61	1.28	.76	.45	1.27	1.50	1.52	1.82	2.29	1.97	1.67	1.86
8	1.58	1.24	.75	.41	1.21	1.51	1.50	1.78	2.26	1.93	1.59	1.84
9	1.55	1.23	.69	.48	1.18	1.50	1.55	1.75	2.23	1.89	1.53	1.77
10	1.51	1.18	.69	.69	1.16	1.50	1.53	1.71	2.19	1.86	1.49	1.70
11	1.46	1.11	.60	.79	1.14	1.49	1.50	1.70	2.15	1.82	1.44	1.64
12	1.35	1.06	.58	.67	1.03	1.56	1.47	1.67	2.12	1.79	1.51	1.59
13	1.39	1.12	.54	.67	1.10	1.57	1.46	1.63	2.08	1.76	1.51	1.56
14	1.36	1.12	.80	.52	1.32	1.56	1.46	1.59	2.05	1.73	1.57	1.53
15	1.24	1.04	.89	.52	1.21	1.56	1.57	1.55	---	1.77	1.52	1.51
16	1.26	1.11	.93	.54	1.21	1.55	1.70	1.51	1.97	1.79	1.48	1.46
17	1.58	1.09	.85	.41	1.00	1.65	1.69	1.48	1.93	1.76	1.47	1.39
18	2.05	1.02	.74	.43	1.11	1.67	1.69	1.45	1.88	1.72	1.44	1.38
19	2.04	.93	.70	.51	1.11	1.66	1.70	1.41	1.91	1.68	1.37	1.62
20	2.03	.89	.89	.61	.94	1.65	1.68	1.37	2.18	1.65	1.29	1.54
21	1.99	.86	.89	.78	.91	1.65	1.66	1.36	2.15	1.62	1.21	1.50
22	2.01	.85	.81	.70	.84	1.67	1.65	1.47	2.12	1.60	1.16	1.45
23	2.00	.85	.83	.67	.81	1.67	1.63	1.66	2.09	1.62	1.14	1.61
24	1.93	.86	.74	.79	.74	1.66	1.60	1.65	2.04	1.68	1.09	1.95
25	1.87	.85	.64	1.55	.70	1.64	1.80	1.63	2.05	1.79	1.04	1.93
26	1.81	.92	.93	1.60	.63	1.63	1.94	1.66	2.06	1.89	1.04	1.96
27	1.70	.92	.72	1.57	.62	1.63	1.93	1.62	2.02	1.97	1.03	1.92
28	1.63	.97	.63	1.48	.60	1.66	1.95	1.70	1.98	2.04	1.04	1.89
29	1.60	.95	.66	1.42	.63	1.65	2.03	1.88	1.99	2.14	1.61	1.80
30	1.55	.73	.61	1.43	---	1.65	2.01	2.12	2.00	2.13	1.83	1.79
31	1.51	---	.50	1.56	---	1.66	---	2.13	---	2.03	1.98	---
MEAN	1.68	1.11	.75	.77	1.07	1.50	1.66	1.70	---	1.84	1.47	1.71
MAX	2.05	1.67	.93	1.60	1.53	1.67	2.03	2.13	---	2.14	1.98	1.96
MIN	1.24	.73	.50	.38	.60	.61	1.46	1.36	---	1.60	1.03	1.38

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - UPSTREAM STAGE--Continued



353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - UPSTREAM STAGE--Continued

WATER-QUALITY RECORDS

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
SEP						
08...	1422	.9	3.8	71	25.7	5.53
08...	1423	.7	3.9	70	25.8	4.99
08...	1424	.6	3.8	72	25.7	3.99
08...	1426	.6	3.8	72	25.7	2.99
08...	1427	.4	3.9	66	26.1	2.00
08...	1428	.3	4.0	66	26.2	.99

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

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
OCT						
05...	1430	1.9	3.5	527	20.1	3.06
DEC						
15...	1232	2.5	3.8	349	12.5	1.50
FEB						
29...	1703	3.4	3.8	197	12.6	2.11
JUL						
11...	1712	1.0	3.8	115	23.4	3.80
11...	1714	1.0	3.8	114	24.5	3.00
11...	1715	1.8	3.8	114	25.9	2.00
11...	1718	2.7	3.8	110	27.7	.99
AUG						
29...	0918	2.1	4.1	167	22.3	4.20
29...	0920	2.0	4.1	159	22.4	3.00
29...	0921	2.0	4.1	148	22.6	2.00
29...	0923	2.0	4.1	160	22.5	1.00



USGS gaging station at Swift Creek at Hillardston.

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - DOWNSTREAM STAGE

LOCATION.--Lat 35°39'32", long 75°53'20", Dare County, Hydrologic Unit 03020105, on downstream side of culvert at intersection of Stomper Road and Whipping Creek road, 0.9 mi north of U.S. Highway 264, and 2.2 mi south of U.S. Air Force Dare County Bombing Range.

DRAINAGE AREA.--Indeterminate.

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

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

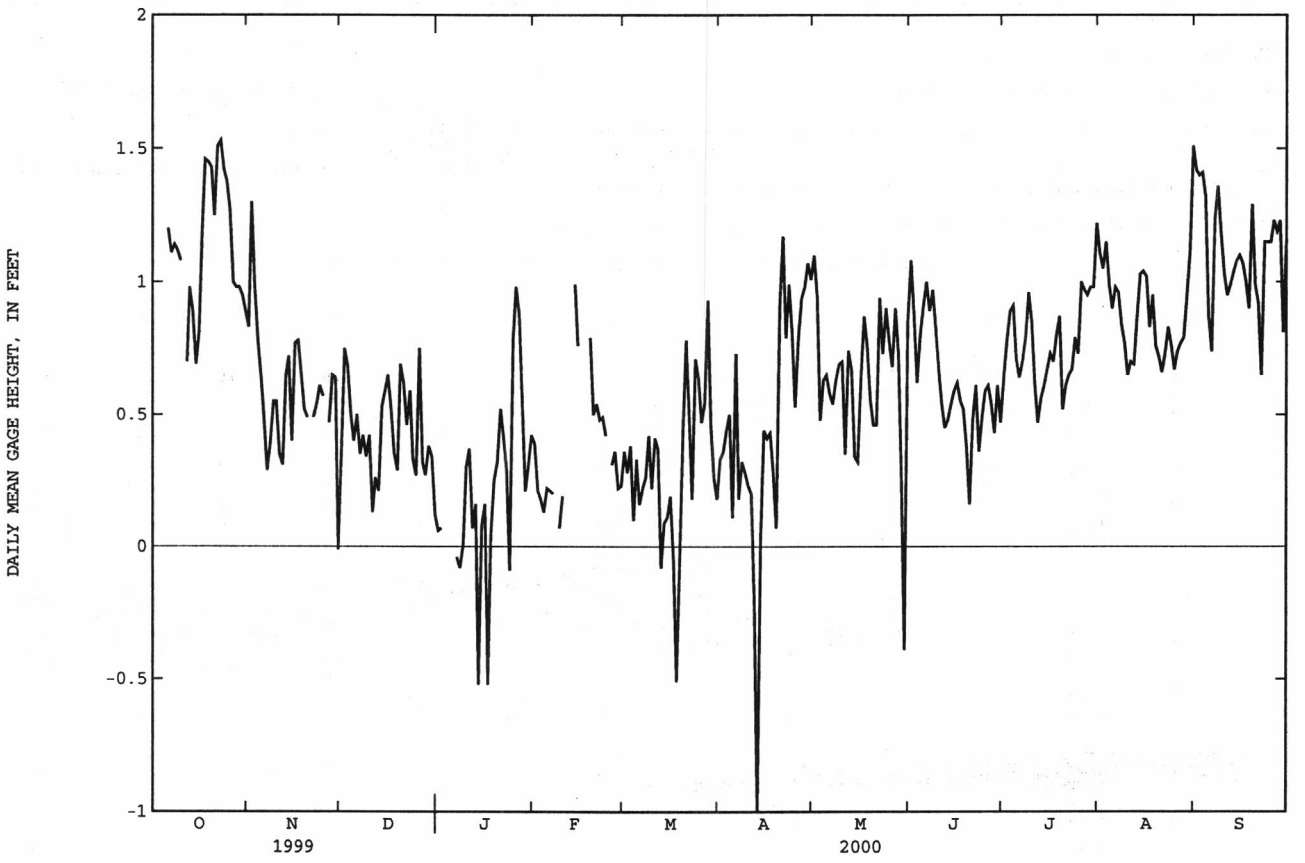
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 2.07 ft, Sept. 23, 2000; minimum, -1.53 ft, April 13, 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	---	.83	.35	.06	.39	.36	.33	1.10	1.08	.64	1.11	1.42
2	---	1.30	.75	.07	.21	.28	.36	.94	.87	.78	1.05	1.40
3	---	.98	.68	---	.18	.38	.44	.48	.62	.89	1.15	1.41
4	---	.78	.51	---	.13	.10	.50	.63	.80	.91	.99	1.32
5	---	.64	.40	---	.22	.33	.11	.65	.91	.71	.90	.87
6	1.20	.49	.50	---	.21	.16	.73	.58	1.00	.64	.98	.74
7	1.11	.29	.35	-.04	.20	.22	.18	.54	.89	.70	.96	1.24
8	1.14	.39	.42	-.08	---	.26	.32	.63	.97	.79	.84	1.36
9	1.12	.55	.34	.01	.07	.42	.28	.69	.82	.96	.77	1.18
10	1.08	.55	.42	.30	.19	.22	.23	.70	.67	.85	.65	1.03
11	---	.35	.13	.37	---	.41	.20	.35	.54	.62	.70	.95
12	.70	.31	.26	.07	.05	.37	-.21	.74	.45	.47	.69	.99
13	.98	.65	.21	.16	---	-.08	-1.00	.67	.48	.56	.87	1.04
14	.89	.72	.53	-.52	.99	.09	.03	.34	.54	.61	1.03	1.08
15	.69	.40	.59	.08	.76	.11	.44	.32	.59	.67	1.04	1.10
16	.81	.77	.65	.16	---	.19	.41	.63	.62	.73	1.02	1.07
17	1.18	.78	.52	-.52	.33	-.05	.43	.87	.55	.70	.83	1.00
18	1.46	.66	.35	.04	---	-.51	.28	.76	.52	.80	.95	.90
19	1.45	.52	.29	.25	.79	-.05	.07	.56	.38	.87	.76	1.29
20	1.43	.49	.69	.32	.50	.43	.91	.46	.16	.52	.72	.99
21	1.25	---	.62	.52	.54	.78	1.17	.46	.48	.61	.66	.92
22	1.51	.49	.46	.42	.48	.50	.79	.94	.61	.65	.73	.65
23	1.53	.54	.59	.29	.49	.18	.99	.73	.36	.67	.83	1.15
24	1.42	.61	.33	-.09	.42	.71	.81	.90	.49	.79	.76	1.15
25	1.38	.57	.27	.78	---	.64	.53	.78	.59	.73	.67	1.15
26	1.27	---	.75	.98	.31	.47	.79	.68	.61	1.00	.74	1.23
27	1.00	.47	.32	.88	.36	.54	.94	.90	.54	.97	.77	1.19
28	.98	.65	.27	.54	.22	.93	.98	.73	.43	.95	.79	1.23
29	.98	.64	.38	.21	.23	.46	1.07	.25	.61	.98	.95	.81
30	.95	-.01	.34	.30	---	.26	1.01	-.39	.47	.98	1.12	1.16
31	.89	---	.12	.42	---	.18	---	.85	---	1.22	1.51	---
MEAN	---	---	.43	---	---	.30	.47	.63	.62	.77	.89	1.10
MAX	---	---	.75	---	---	.93	1.17	1.10	1.08	1.22	1.51	1.42
MIN	---	---	.12	---	---	-.51	-1.00	-.39	.16	.47	.65	.65

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - DOWNSTREAM STAGE--Continued



354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - UPSTREAM STAGE

LOCATION.--Lat 35°41'49", long 75°46'39", Dare County, Hydrologic Unit 03020105, at upstream side of culvert on Lake Worth Road, 0.3 mi west of U.S. Highway 264, and 0.9 mi southwest of intersection of U.S. Highway 264 and Secondary Road 1100.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

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

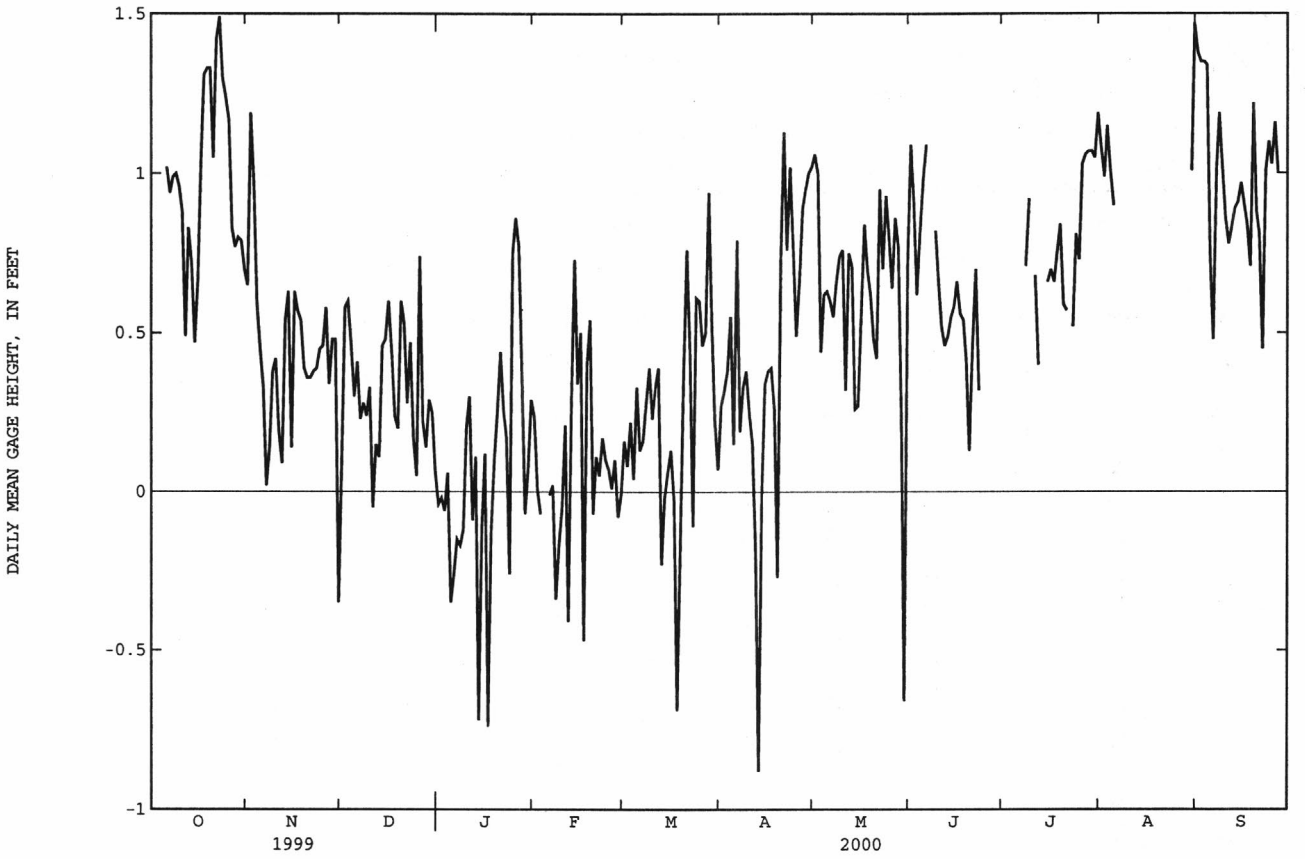
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 1.98 ft, Jan. 25, 2000; minimum, not determined.

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	---	.65	.10	-.04	.24	.16	.27	1.06	1.09	---	1.08	1.38
2	---	1.19	.58	-.02	.01	.08	.32	1.00	.91	---	.99	1.35
3	---	.97	.60	-.06	-.07	.22	.38	.44	.62	---	1.15	1.35
4	---	.59	.46	.06	---	.04	.55	.62	.81	---	1.01	1.34
5	---	.45	.30	-.35	---	.33	.15	.63	.98	---	.90	.75
6	1.02	.33	.41	-.26	-.01	.13	.79	.60	1.09	---	---	.48
7	.94	.02	.23	-.15	.02	.16	.19	.55	---	---	---	1.01
8	.99	.14	.28	-.17	-.34	.28	.33	.66	---	.71	---	1.19
9	1.00	.38	.24	-.12	-.17	.39	.38	.74	.82	.92	---	1.02
10	.96	.42	.33	.20	-.05	.23	.25	.76	.65	---	---	.86
11	.88	.19	-.05	.30	.21	.33	.15	.32	.52	.68	---	.78
12	.49	.09	.15	-.09	-.41	.39	-.18	.75	.46	.40	---	.83
13	.83	.54	.11	.11	.28	-.23	-.88	.71	.49	---	---	.89
14	.72	.63	.46	-.72	.73	-.02	.00	.26	.55	---	---	.91
15	.47	.14	.48	-.11	.34	.06	.34	.27	.58	.66	---	.97
16	.66	.63	.60	.12	.50	.13	.38	.56	.66	.70	---	.90
17	1.04	.57	.44	-.74	-.47	-.03	.39	.84	.56	.66	.65	.84
18	1.31	.54	.24	-.13	.40	-.69	.26	.70	.54	.75	---	.71
19	1.33	.39	.20	.10	.54	-.16	-.27	.62	.42	.84	---	1.22
20	1.33	.36	.60	.25	-.07	.37	.73	.48	.13	.59	---	.88
21	1.05	.36	.53	.44	.11	.76	1.13	.42	.46	.57	---	.81
22	1.42	.38	.28	.26	.05	.45	.76	.95	.70	---	---	.45
23	1.49	.39	.47	.17	.17	-.11	1.02	.70	.32	.52	---	1.01
24	1.30	.45	.17	-.26	.10	.61	.77	.93	---	.81	---	1.10
25	1.24	.46	.05	.75	.07	.60	.49	.80	---	.73	---	1.03
26	1.17	.58	.74	.86	.01	.46	.66	.64	---	1.03	---	1.16
27	.83	.34	.22	.77	.10	.50	.89	.86	---	1.06	---	1.00
28	.77	.48	.14	.36	-.08	.94	.95	.77	---	1.07	---	---
29	.80	.48	.29	-.07	-.01	.52	1.00	.25	---	1.07	---	---
30	.79	-.35	.25	.07	---	.22	1.02	-.66	---	1.05	1.01	---
31	.70	---	.06	.29	---	.07	---	.71	---	1.19	1.47	---
MEAN	---	.43	.32	.06	---	.23	.44	.61	---	---	---	---
MAX	---	1.19	.74	.86	---	.94	1.13	1.06	---	---	---	---
MIN	---	-.35	-.05	-.74	---	-.69	-.88	-.66	---	---	---	---

354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - UPSTREAM STAGE--Continued



354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - UPSTREAM STAGE--Continued

WATER-QUALITY RECORDS

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

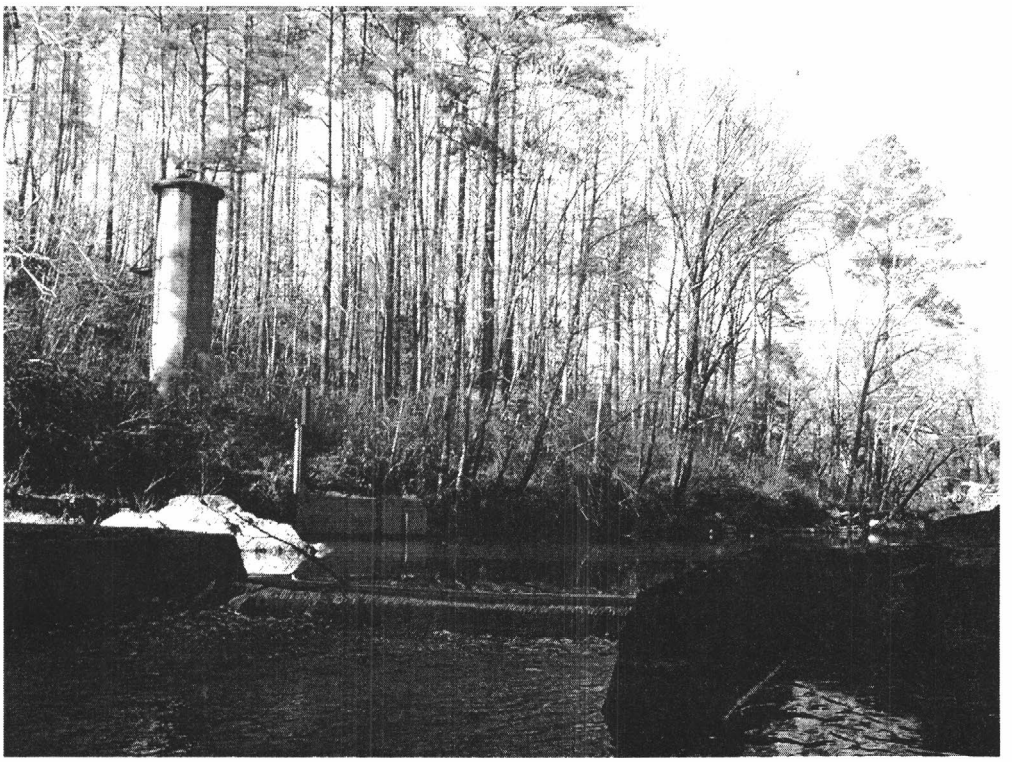
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
SEP						
08...	1505	1.4	3.6	209	24.2	2.85

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

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
OCT						
05...	1245	2.3	3.0	641	20.0	2.35
DEC						
15...	1043	4.9	3.8	4200	12.4	1.40
FEB						
01...	1315	6.2	3.3	318	7.4	4.00
MAR						
01...	0904	4.8	3.3	218	9.2	6.34
JUL						
11...	1810	3.5	6.8	22300	26.7	7.62
AUG						
29...	1410	3.1	3.5	249	22.2	5.25



USGS gaging station at Tar River.

354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - DOWNSTREAM STAGE

LOCATION.--Lat 35°41'49", long 75°46'39", Dare County, Hydrologic Unit 03020105, at downstream side of culvert on Lake Worth Road, 0.3 mi west of U.S. Highway 264, and 0.9 mi southwest of intersection of U.S. Highway 264 and Secondary Road 1100.

DRAINAGE AREA.--Indeterminate.

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

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

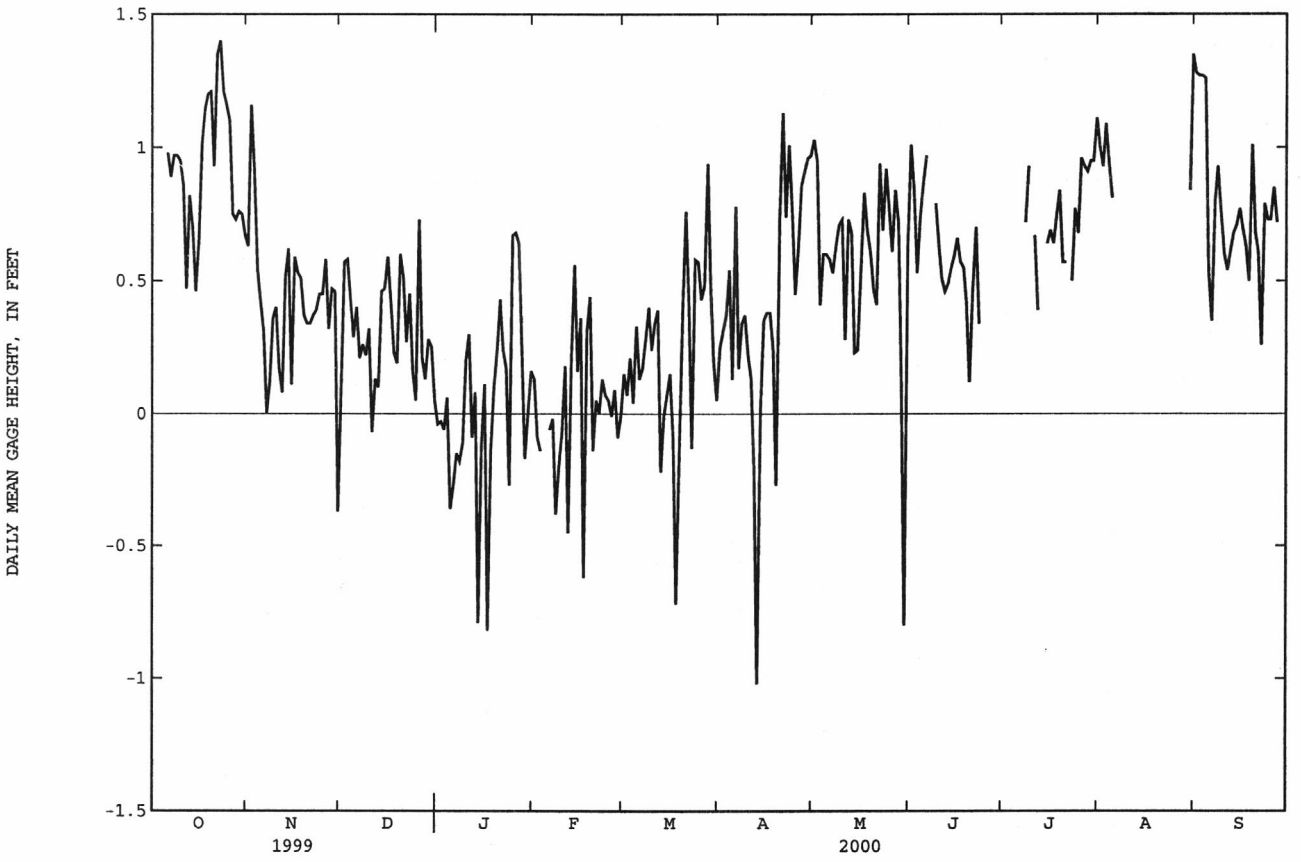
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 2.28 ft, Sept. 23, 2000; minimum, not determined.

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	---	.63	.09	-.04	.13	.15	.25	1.03	1.01	---	1.00	1.28
2	---	1.16	.57	-.03	-.09	.07	.31	.95	.84	---	.93	1.27
3	---	.91	.58	-.06	-.14	.21	.37	.41	.53	---	1.09	1.27
4	---	.54	.43	.06	---	.04	.54	.60	.74	---	.94	1.26
5	---	.42	.29	-.36	---	.33	.13	.60	.87	---	.81	.54
6	.98	.31	.40	-.27	-.06	.13	.78	.58	.97	---	---	.35
7	.89	.00	.21	-.15	-.02	.17	.17	.53	---	---	---	.80
8	.97	.12	.26	-.18	-.38	.28	.34	.63	---	.72	---	.93
9	.97	.36	.22	-.11	-.20	.40	.37	.71	.79	.93	---	.76
10	.95	.40	.32	.20	-.07	.24	.22	.73	.63	---	---	.60
11	.86	.17	-.07	.30	.18	.34	.13	.28	.51	.67	---	.54
12	.47	.08	.13	-.09	-.45	.39	-.22	.73	.46	.39	---	.61
13	.82	.52	.10	.08	.21	-.22	-1.02	.68	.49	---	---	.68
14	.70	.62	.46	-.79	.56	-.01	.00	.23	.55	---	---	.71
15	.46	.11	.47	-.12	.16	.07	.35	.24	.59	.64	---	.77
16	.65	.59	.59	.11	.36	.15	.38	.54	.66	.69	---	.69
17	1.01	.53	.42	-.82	-.62	-.09	.38	.83	.57	.64	.60	.63
18	1.14	.51	.23	-.14	.31	-.72	.24	.69	.55	.74	---	.50
19	1.20	.37	.19	.10	.44	-.15	-.27	.61	.42	.84	---	1.01
20	1.21	.34	.60	.24	-.14	.37	.73	.47	.12	.57	---	.68
21	.93	.34	.51	.43	.05	.76	1.13	.41	.47	.57	---	.61
22	1.35	.37	.27	.24	.00	.42	.74	.94	.70	---	---	.26
23	1.40	.39	.45	.17	.13	-.13	1.01	.69	.34	.50	---	.79
24	1.21	.45	.16	-.27	.07	.58	.76	.92	---	.77	---	.73
25	1.16	.45	.05	.67	.05	.57	.45	.77	---	.68	---	.73
26	1.10	.58	.73	.68	-.01	.43	.63	.61	---	.96	---	.85
27	.75	.32	.21	.64	.09	.48	.86	.84	---	.93	---	.72
28	.73	.47	.13	.24	-.09	.94	.91	.72	---	.91	---	---
29	.76	.46	.28	-.17	-.01	.47	.96	.12	---	.95	---	---
30	.75	-.37	.25	.00	---	.19	.97	-.80	---	.95	.84	---
31	.67	---	.05	.16	---	.05	---	.63	---	1.11	1.35	---
MEAN	---	.41	.31	.02	---	.22	.42	.58	---	---	---	---
MAX	---	1.16	.73	.68	---	.94	1.13	1.03	---	---	---	---
MIN	---	-.37	-.07	-.82	---	-.72	-1.02	-.80	---	---	---	---

354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - DOWNSTREAM STAGE--Continued



02084909 SEVENMILE CREEK NEAR EFLAND, NC

LOCATION.--Lat 36°03'56", long 79°08'39", Orange County, Hydrologic Unit 03020201, at upstream side of culvert on I-85, 1 mi upstream from mouth, and 1.5 mi southeast of Efland.

DRAINAGE AREA.--14.1 mi^2.

PERIOD OF RECORD.--July 1981 to July 1982, June 1987 to current year.

REVISED RECORDS.--WRD NC-96-1: 1988-95(M).

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 5,500 ft^3/s, on the basis of computation of peak flow through culvert; maximum gage height 15.47 ft, from floodmark. No flow occurs periodically most years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	e3.7	5.2	e5.5	72	e13	8.6	18	3.2	2.6	3.0	4.7
2	11	e4.7	5.0	e5.3	57	e10	7.8	15	2.8	2.1	4.0	2.2
3	7.2	e4.7	4.5	5.3	49	e9.0	22	12	2.8	1.9	2.6	6.2
4	5.6	e3.8	4.3	11	60	e8.6	20	11	16	1.7	2.6	5.2
5	5.2	e3.7	3.6	30	57	e8.0	13	9.3	5.0	1.8	6.4	3.1
6	4.4	e3.5	4.0	14	48	e7.3	11	7.0	4.4	1.8	3.4	2.1
7	3.4	e3.4	3.8	9.6	46	e7.2	10	6.3	3.8	1.6	2.4	1.8
8	3.0	e3.1	e3.4	7.7	48	e6.8	44	5.7	2.5	1.5	2.1	1.7
9	2.6	e3.1	3.2	13	38	e6.0	77	5.3	2.2	1.4	1.9	1.5
10	3.1	e3.2	4.0	101	32	e6.1	26	5.2	1.8	1.3	9.4	1.5
11	5.2	e3.5	7.5	56	29	e6.4	18	5.0	1.6	1.2	3.4	1.4
12	4.5	e3.4	e6.0	28	72	e8.0	13	3.6	1.5	1.2	2.3	1.3
13	3.8	e3.2	e6.0	20	70	e6.7	24	3.8	1.4	1.5	2.1	1.3
14	4.6	e3.1	97	14	83	e5.8	42	3.9	1.4	1.7	2.0	3.3
15	3.6	e3.1	41	9.8	54	e5.8	60	2.9	1.8	1.5	1.8	8.1
16	4.5	e2.9	24	8.3	36	15	85	2.5	4.0	1.3	1.7	2.3
17	17	e2.7	17	7.5	27	359	34	2.2	2.5	1.2	1.6	1.6
18	29	e2.7	14	8.1	69	43	104	2.3	2.0	1.1	1.5	1.4
19	21	e2.7	12	8.4	60	25	42	2.1	9.1	.98	1.5	1.6
20	68	e2.7	13	21	37	56	23	2.2	152	1.1	1.4	1.6
21	64	e2.7	15	28	e27	93	17	6.4	20	1.1	1.4	1.4
22	e13	e4.6	22	14	e23	32	13	56	8.8	1.1	1.3	1.4
23	e8.5	e4.1	17	e13	e20	22	11	11	4.6	18	1.2	6.8
24	e6.3	e3.6	13	e27	e18	17	9.2	5.8	3.0	234	1.2	7.2
25	e5.5	20	12	e43	e16	14	15	8.1	2.5	26	1.2	73
26	e4.9	85	e10	e33	e16	12	13	9.4	2.2	14	1.2	73
27	e4.6	44	e9.3	e27	e22	12	42	4.9	2.4	7.1	1.3	9.0
28	e4.5	e20	e8.0	e25	e31	17	69	4.0	14	4.2	7.3	2.9
29	e4.0	e12	e7.0	e23	e19	12	99	4.9	10	3.2	2.4	1.7
30	e3.8	e7.0	e6.2	e50	---	10	33	4.6	5.7	2.7	1.8	1.4
31	e3.7	---	e6.0	e110	---	9.6	---	3.6	---	2.5	2.1	---
TOTAL	348.5	269.9	404.0	776.5	1236	863.3	1005.6	244.0	295.0	344.38	79.5	231.7
MEAN	11.2	9.00	13.0	25.0	42.6	27.8	33.5	7.87	9.83	11.1	2.56	7.72
MAX	68	85	97	110	83	359	104	56	152	234	9.4	73
MIN	2.6	2.7	3.2	5.3	16	5.8	7.8	2.1	1.4	.98	1.2	1.3
CFSM	.80	.64	.92	1.78	3.02	1.98	2.38	.56	.70	.79	.18	.55
IN.	.92	.71	1.07	2.05	3.26	2.28	2.65	.64	.78	.91	.21	.61

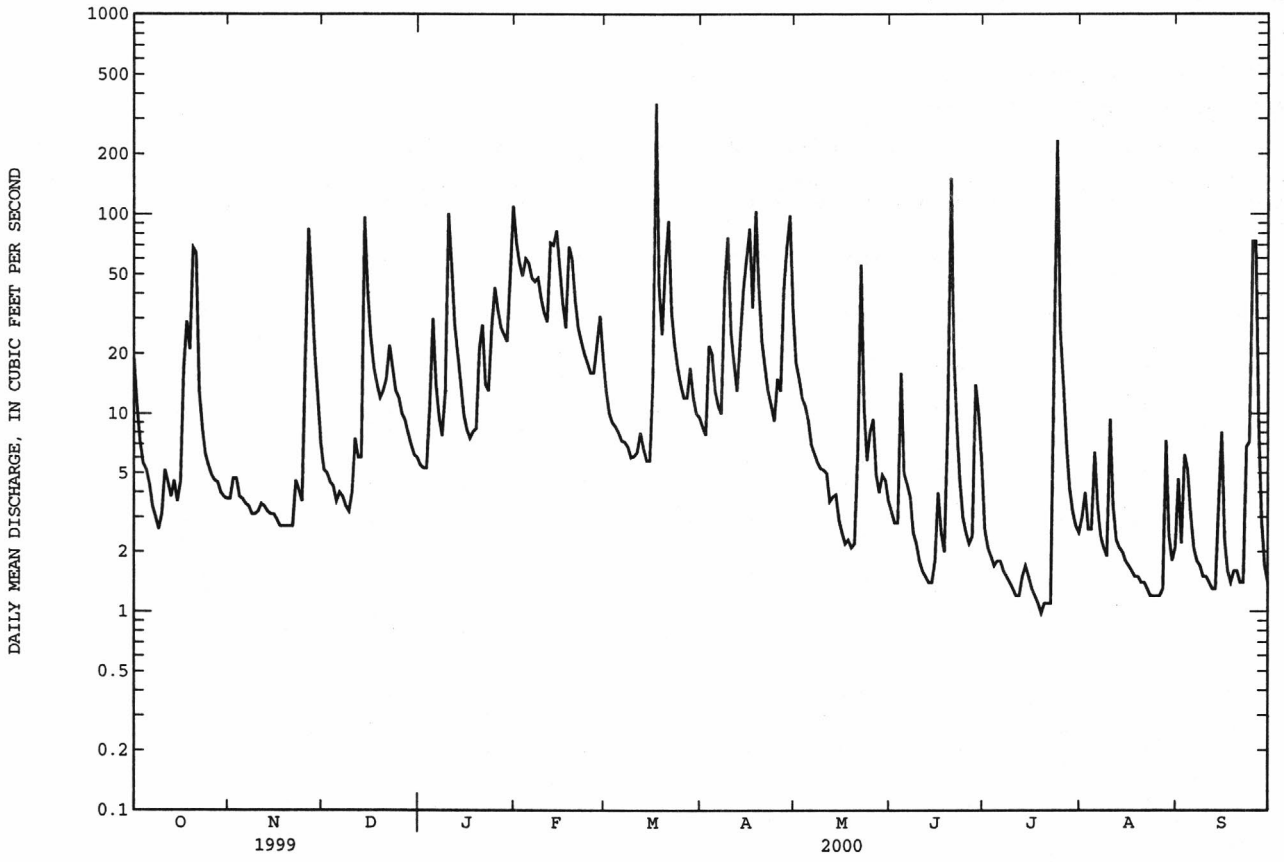
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	7.08	8.70	9.61	26.1	26.0	31.9	19.5	10.2	8.04	4.12	3.16	10.5
MAX	24.9	28.9	17.6	58.2	62.9	76.6	36.3	36.3	30.6	14.4	8.27	54.4
(WY)	1996	1996	1991	1991	1998	1998	1993	1989	1995	1989	1989	1996
MIN	.065	.064	2.90	7.63	4.35	4.39	.99	1.26	.53	.21	.33	.027
(WY)	1999	1999	1992	1989	1999	1988	1995	1995	1999	1988	1998	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	3463.59		6098.38			
ANNUAL MEAN	9.49		16.7		13.7	
HIGHEST ANNUAL MEAN					20.7	1996
LOWEST ANNUAL MEAN					5.92	1988
HIGHEST DAILY MEAN	419	Sep 16	359	Mar 17	1080	Sep 6 1996
LOWEST DAILY MEAN	.02	Aug 10	.98	Jul 19	.00	Aug 3 1988
ANNUAL SEVEN-DAY MINIMUM	.03	Aug 7	1.1	Jul 16	.00	Aug 13 1988
INSTANTANEOUS PEAK FLOW			1220	Mar 17	3440*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			11.10	Mar 17	15.47*	Sep 6 1996
INSTANTANEOUS LOW FLOW			.92	Jul 19	.00*	Aug 6 1987
ANNUAL RUNOFF (CFSM)	.67		1.18		.97	
ANNUAL RUNOFF (INCHES)	9.14		16.09		13.18	
10 PERCENT EXCEEDS	15		45		25	
50 PERCENT EXCEEDS	3.4		6.1		4.9	
90 PERCENT EXCEEDS	.18		1.6		.26	

e Estimated.
* See REMARKS.

02084909 SEVENMILE CREEK NEAR EFLAND, NC--Continued



02085000 ENO RIVER AT HILLSBOROUGH, NC

LOCATION.--Lat 36°04'18", long 79°05'49", Orange County, Hydrologic Unit 03020201, on left bank 900 ft downstream of bridge on State Highway 86 at Hillsborough, and 2 mi downstream of Sevenmile Creek.

DRAINAGE AREA.--66.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1971, October 1985 to current year.

REVISED RECORD.--WDR NC-96-1: 1945(M).

GAGE.--Water-stage recorder. Datum of gage is 487.44 ft above sea level. Telephone and satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Diversions upstream from station of 1.3 ft^3/s by Orange-Alamance Water System, Inc. and 4.2 ft^3/s by town of Hillsborough for municipal supply, part of which is returned downstream of station as treated effluent. Maximum gage height for period of record, 21.13 ft, from high-water mark in gage shelter.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	19	33	24	245	53	46	100	16	23	29	25
2	61	33	29	23	168	50	43	78	15	17	38	14
3	43	32	26	23	135	43	75	65	14	13	22	22
4	36	21	25	33	154	42	86	54	32	11	34	39
5	36	19	23	87	152	40	64	49	22	20	65	28
6	31	17	24	52	135	37	48	43	22	13	32	18
7	26	17	23	39	126	37	44	38	19	10	19	12
8	23	16	21	32	131	36	94	34	12	9.0	14	9.1
9	21	15	20	40	109	34	309	31	11	8.3	11	7.9
10	22	15	23	321	97	35	109	28	9.3	6.4	29	7.0
11	29	15	34	220	91	35	75	26	9.1	5.5	21	5.6
12	27	17	30	100	231	41	58	23	7.0	7.0	14	4.9
13	23	15	27	69	253	33	85	23	6.8	9.4	13	4.2
14	27	15	279	49	271	29	166	22	6.9	10	11	12
15	23	16	133	39	184	29	166	19	16	13	9.1	13
16	20	14	78	37	115	46	438	17	42	16	7.9	7.9
17	29	12	53	34	92	1430	176	17	24	11	6.3	6.0
18	58	12	42	35	191	191	470	17	23	7.3	5.9	4.7
19	33	11	37	36	204	109	234	16	72	6.1	5.8	5.9
20	144	13	37	50	124	166	119	18	800	6.7	6.3	5.4
21	197	14	41	66	91	397	92	25	89	5.3	4.5	4.6
22	97	16	58	47	77	160	75	136	46	6.8	3.8	4.2
23	61	18	50	46	69	109	65	40	29	69	4.5	19
24	40	18	41	53	63	88	53	26	21	818	4.5	20
25	32	17	37	91	60	76	75	40	17	147	4.6	150
26	28	270	32	82	57	70	78	41	13	75	5.1	273
27	25	282	32	68	57	67	211	22	16	44	8.1	48
28	23	94	30	57	79	88	253	19	41	29	35	26
29	21	60	28	49	62	67	480	39	59	23	18	17
30	20	42	26	217	---	55	159	26	44	24	9.4	13
31	18	---	25	522	---	51	---	20	---	22	12	---
TOTAL	1379	1175	1397	2641	3823	3744	4446	1152	1554.1	1485.8	502.8	826.4
MEAN	44.5	39.2	45.1	85.2	132	121	148	37.2	51.8	47.9	16.2	27.5
MAX	197	282	279	522	271	1430	480	136	800	818	65	273
MIN	18	11	20	23	57	29	43	16	6.8	5.3	3.8	4.2
CFSM	.67	.59	.68	1.29	2.00	1.83	2.25	.56	.78	.73	.25	.42
IN.	.78	.66	.79	1.49	2.15	2.11	2.51	.65	.88	.84	.28	.47

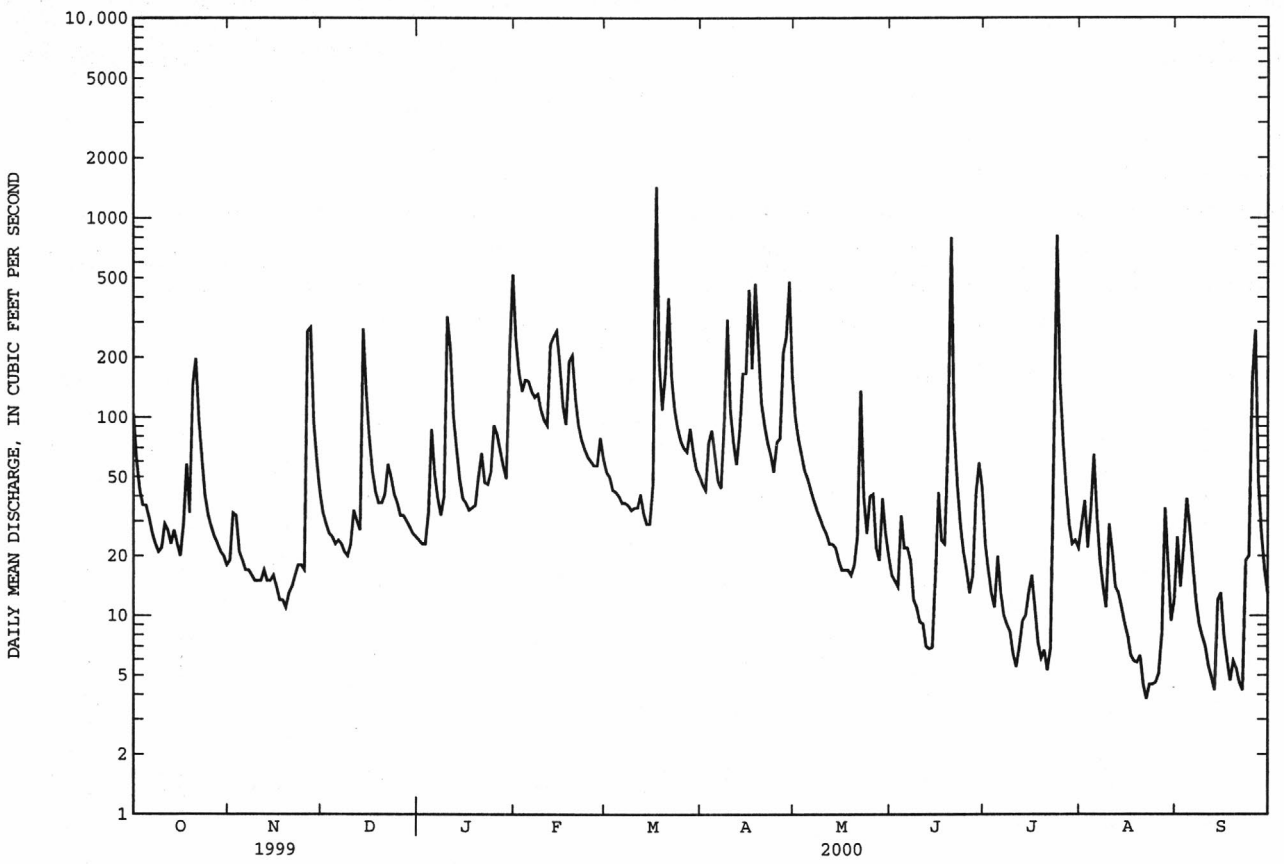
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000@, BY WATER YEAR (WY)

MEAN	29.0	44.2	55.3	92.7	113	120	94.3	51.1	38.2	37.7	32.5	38.0
MAX	181	213	166	326	311	354	264	165	210	359	256	342
(WY)	1930	1986	1946	1936	1998	1998	1936	1931	1995	1938	1939	1945
MIN	.63	.82	3.64	5.16	21.7	29.9	14.8	9.67	1.75	1.28	.85	.28
(WY)	1987	1942	1942	1942	1931	1988	1995	1986	1986	1986	1987	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000@	
ANNUAL TOTAL	20078.48		24126.1			
ANNUAL MEAN	55.0		65.9		61.9	
HIGHEST ANNUAL MEAN					108	1960
LOWEST ANNUAL MEAN					26.3	1988
HIGHEST DAILY MEAN	2450	Sep 16	1430	Mar 17	4600	Sep 6 1996
LOWEST DAILY MEAN	.73	Sep 3	3.8	Aug 22	.02	Jul 10 1986
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 18	4.8	Aug 20	.10	Oct 6 1954
INSTANTANEOUS PEAK FLOW			3640	Mar 17	10800	Sep 6 1996
INSTANTANEOUS PEAK STAGE			15.74	Mar 17	21.13*	Sep 6 1996
INSTANTANEOUS LOW FLOW			2.8	Sep 14	.01	Jul 10 1986
ANNUAL RUNOFF (CFSM)	.83		1.00		.94	
ANNUAL RUNOFF (INCHES)	11.32		13.60		12.74	
10 PERCENT EXCEEDS	79		153		117	
50 PERCENT EXCEEDS	24		32		26	
90 PERCENT EXCEEDS	2.4		8.8		4.2	

@ See PERIOD OF RECORD.
* See REMARKS.

02085000 ENO RIVER AT HILLSBOROUGH, NC--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT											
20...	1230	115	761	88	8.8	6.5	80	15.5	26	6.33	2.43
DEC											
09...	1030	21	762	90	11.0	6.8	87	6.8	29	6.65	2.99
MAR											
02...	1215	51	750	98	10.5	7.0	83	11.5	27	6.20	2.69
APR											
13...	1215	49	761	84	8.4	6.7	74	15.0	24	5.70	2.39
JUN											
22...	1030	45	749	83	7.0	6.5	71	23.3	21	4.95	2.09
JUL											
11...	1015	4.2	747	70	5.6	6.6	105	25.9	34	7.72	3.48
SEP											
13...	1100	4.2	750	68	5.9	6.5	112	21.7	37	8.99	3.49

DATE	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT											
20...	2.2	.3	3.8	23	21	26	4.4	<.1	11.2	6.3	--
DEC											
09...	1.5	.4	4.7	25	31	35	5.8	<.1	16.1	4.8	--
MAR											
02...	1.1	.5	5.3	29	25	30	6.2	<.1	10.4	4.4	--
APR											
13...	1.2	.4	5.0	30	--	--	5.1	<.1	11.9	4.7	--
JUN											
22...	1.8	.3	3.5	25	--	--	3.9	<.1	10.0	5.0	--
JUL											
11...	1.3	.4	5.9	27	--	--	6.7	<.1	13.8	5.2	.26
SEP											
13...	1.6	.5	6.6	27	27	33	6.5	<.1	13.8	6.1	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT											
20...	.73	.005	--	1.0	--	.284	.003	.73	--	.004	.124
DEC											
09...	.24	.021	--	.53	--	.292	.002	.22	--	<.001	<.050
MAR											
02...	.31	.005	--	.61	--	.299	.001	.31	--	.005	<.050
APR											
13...	.36	.026	--	.60	--	.234	.003	.34	--	.004	E.034
JUN											
22...	.49	.049	--	.82	--	.331	.005	.44	--	.006	.060
JUL											
11...	.36	.034	.23	.61	.51	.245	<.010	.33	.012	<.010	.025
SEP											
13...	.29	.027	--	.58	--	.289	.003	.26	--	<.001	<.050

02085000 ENO RIVER AT HILLSBOROUGH, NC--Continued

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

DATE	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)	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, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT											
20...	8.2	130	61	1080	<3	<.1	E1	3	7	--	2810
DEC											
09...	4.6	45	66	--	--	--	--	--	--	--	--
MAR											
02...	4.6	70	66	--	--	--	--	--	--	--	--
APR											
13...	6.5	60	57	287	<3	<.1	<1	E1	4	--	1230
JUN											
22...	9.6	130	62	--	--	--	--	--	--	--	--
JUL											
11...	--	--	76	--	--	--	--	--	--	270	--
SEP											
13...	4.5	25	75	--	--	--	--	--	--	--	--

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	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...	5	--	339	<.3	<1	E1	<3	<1	<31	86	27
DEC											
09...	--	--	--	--	--	--	--	--	--	13	.71
MAR											
02...	--	--	--	--	--	--	--	--	--	11	1.5
APR											
13...	E1	--	116	<.3	<1	<2	<3	<1	E15	6	.86
JUN											
22...	--	--	--	--	--	--	--	--	--	18	2.2
JUL											
11...	--	188	--	--	--	--	--	--	--	--	--
SEP											
13...	--	--	--	--	--	--	--	--	--	5	.06

02085070 ENO RIVER NEAR DURHAM, NC

LOCATION.--Lat 36°04'20", long 78°54'30", Durham County, Hydrologic Unit 03020201, on right bank 275 ft downstream of bridge on U.S. Highway 501, 0.2 mi downstream of Crooked Creek, and 5 mi north of Durham.

DRAINAGE AREA.--141 mi^2

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1955. August 1963 to current year.

REVISED RECORDS.--WDR NC-72-1: 1968-71(M), 1971(P).

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above sea level, from topographic map. Prior to Nov. 19, 1966, at site 275 ft upstream, at datum 272.35 ft. Nov. 20, 1966, to Sept. 30, 1967, water-stage recorder at present site, at datum 270.94 ft. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation during periods of low flow caused by mill 600 ft upstream. Maximum gage height for period of record, 23.58 ft, from floodmark. Minimum discharge for period of record also occurred on Aug. 15, 1977. Minimum discharge for current water year also occurred July 23.

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	405	51	66	48	608	117	75	189	43	51	52	43
2	190	101	58	47	415	109	71	130	39	37	162	48
3	125	120	54	47	313	101	89	108	35	31	81	37
4	100	73	51	61	367	95	131	93	33	27	66	44
5	88	58	49	132	369	92	100	83	48	24	107	54
6	76	56	50	98	308	88	80	75	44	34	86	42
7	67	54	49	75	268	85	71	70	41	29	52	33
8	61	52	46	66	273	83	108	63	37	23	41	28
9	57	50	46	69	227	81	507	58	30	20	35	24
10	58	49	46	547	194	80	193	54	27	17	37	21
11	71	48	54	588	175	80	115	51	25	16	50	18
12	125	49	56	230	387	81	90	47	23	22	38	17
13	77	50	51	148	642	80	99	45	21	21	33	15
14	70	50	374	114	593	72	327	43	20	23	40	24
15	66	51	308	94	475	70	306	41	20	24	31	37
16	59	51	135	88	263	81	716	37	47	21	27	31
17	87	50	93	84	191	1790	381	37	57	27	24	22
18	150	48	77	82	356	422	1140	39	39	24	21	17
19	99	47	69	85	476	177	559	37	148	18	19	20
20	151	47	69	104	282	242	247	39	934	17	17	19
21	436	51	70	133	191	915	159	54	193	14	17	16
22	201	55	84	109	155	375	123	337	83	15	16	15
23	123	55	85	102	138	197	103	106	58	36	14	39
24	91	56	74	118	128	142	89	61	45	3950	13	55
25	75	55	66	e120	122	117	98	62	38	482	35	71
26	68	320	61	e110	116	105	117	76	32	208	25	479
27	63	688	58	e105	117	103	475	55	28	106	19	109
28	60	187	57	e100	169	128	408	49	53	71	38	58
29	56	106	54	e95	140	106	990	81	80	54	57	42
30	53	79	51	e120	---	87	414	67	78	48	40	33
31	52	---	50	1040	---	81	---	49	---	46	33	---
TOTAL	3460	2807	2511	4959	8458	6382	8381	2336	2399	5536	1326	1511
MEAN	112	93.6	81.0	160	292	206	279	75.4	80.0	179	42.8	50.4
MAX	436	688	374	1040	642	1790	1140	337	934	3950	162	479
MIN	52	47	46	47	116	70	71	37	20	14	13	15
CFSM	.79	.66	.57	1.13	2.07	1.46	1.98	.53	.57	1.27	.30	.36
IN.	.91	.74	.66	1.31	2.23	1.68	2.21	.62	.63	1.46	.35	.40

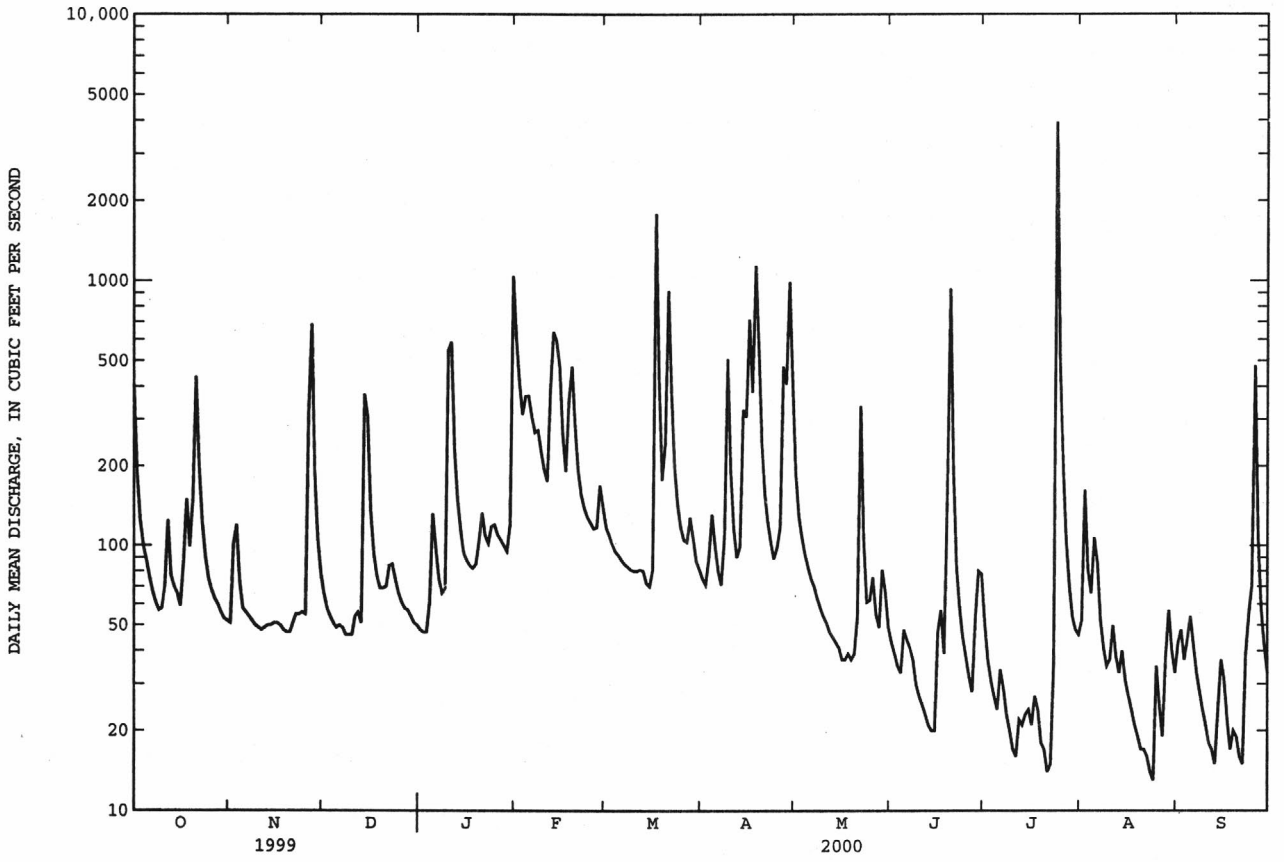
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	58.9	77.1	108	210	253	282	184	123	88.3	71.3	51.4	72.3
MAX	456	462	406	517	638	767	424	429	411	452	282	606
(WY)	1972	1986	1973	1998	1998	1998	1983	1978	1982	1975	1985	1999
MIN	4.77	8.98	19.4	21.4	64.7	67.4	34.9	26.1	6.86	6.35	3.34	.84
(WY)	1964	1999	1995	1981	1968	1988	1995	1986	1986	1977	1977	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	49551.0		50066			
ANNUAL MEAN	136		137		131	
HIGHEST ANNUAL MEAN					244	1973
LOWEST ANNUAL MEAN					60.4	1977
HIGHEST DAILY MEAN	5360	Sep 16	3950	Jul 24	9900	Sep 6 1996
LOWEST DAILY MEAN	2.8	Aug 5	13	Aug 24	.08	Aug 14 1977
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 3	17	Aug 18	.20	Aug 8 1977
INSTANTANEOUS PEAK FLOW			9010	Jul 24	14700	Sep 6 1996
INSTANTANEOUS PEAK STAGE			19.01	Jul 24	23.58	Sep 6 1996
INSTANTANEOUS LOW FLOW			12*	Jul 22	.06	Aug 14 1977
ANNUAL RUNOFF (CFSM)	.96		.97		.93	
ANNUAL RUNOFF (INCHES)	13.07		13.21		12.63	
10 PERCENT EXCEEDS	197		322		268	
50 PERCENT EXCEEDS	58		68		53	
90 PERCENT EXCEEDS	7.5		24		7.0	

e Estimated.
* See REMARKS.

02085070 ENO RIVER NEAR DURHAM, NC--Continued



0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC

LOCATION.--Lat 36°08'30", long 78°55'10", Durham County, Hydrologic Unit 03020201, on left bank, 80 feet downstream from bridge on Secondary Road 1461, and 1.8 mi northwest of Orange Factory.

DRAINAGE AREA.--78.2 mi^2.

PERIOD OF RECORD.--October 1987 to current year. Prior to October 1987, equivalent records published as "Little River near Orange Factory, NC" (02085220), September 1961 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is 380 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from extension of rating curve above 2,300 ft^3/s, based on contracted-opening measurement of peak flow; maximum gage height, 13.26 ft, from high-water mark in gage shelter. Minimum discharge for period of record, no flow, also occurred Aug. 19-29, 1988.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	20	42	31	e345	71	45	118	31	17	14	13
2	83	33	37	29	e240	66	43	86	28	12	101	10
3	56	73	35	29	150	61	60	71	26	11	31	8.8
4	44	37	32	37	174	57	94	61	25	9.6	21	9.5
5	38	27	31	110	181	55	60	55	25	9.0	21	9.3
6	32	24	30	66	165	53	48	50	28	8.6	18	10
7	28	22	30	49	154	50	42	47	26	8.5	14	8.8
8	24	21	27	42	158	50	52	44	22	8.3	12	7.7
9	22	20	26	42	128	48	262	41	20	7.7	10	7.0
10	22	20	28	270	113	48	94	39	19	7.2	12	6.5
11	30	21	43	223	105	47	62	36	18	6.8	14	5.9
12	54	19	39	100	224	50	51	34	18	11	11	5.6
13	29	19	32	72	275	49	81	32	21	11	10	5.2
14	28	19	237	57	266	44	182	30	19	11	26	4.9
15	26	20	155	49	200	43	182	29	18	80	16	4.7
16	21	19	84	45	129	53	351	28	122	30	12	4.3
17	25	17	60	43	105	1820	197	28	47	15	9.8	4.0
18	54	16	50	40	206	210	838	32	27	10	8.5	3.9
19	37	16	44	40	230	112	247	26	25	8.4	7.6	4.4
20	111	16	43	48	138	154	132	25	38	8.6	7.2	4.5
21	207	17	47	71	105	497	96	29	34	8.7	6.8	4.4
22	95	19	68	54	90	179	76	120	26	8.5	6.4	4.3
23	59	20	63	47	81	112	64	45	e18	8.2	5.9	6.6
24	41	19	51	53	76	87	57	31	e14	290	5.2	7.7
25	33	18	43	e55	73	74	75	29	e11	95	5.6	17
26	29	172	39	e50	68	70	96	31	e9.0	45	5.8	95
27	27	355	38	e50	67	65	340	26	e7.5	29	5.3	28
28	24	107	36	e50	103	102	254	51	e7.0	21	12	15
29	23	69	34	e50	84	72	503	143	e10	19	20	10
30	21	52	32	e55	---	56	226	53	28	23	11	8.8
31	21	---	31	e750	---	51	---	37	---	13	9.9	---
TOTAL	1487	1327	1587	2707	4433	4506	4910	1507	767.5	851.1	470.0	334.8
MEAN	48.0	44.2	51.2	87.3	153	145	164	48.6	25.6	27.5	15.2	11.2
MAX	207	355	237	750	345	1820	838	143	122	290	101	95
MIN	21	16	26	29	67	43	42	25	7.0	6.8	5.2	3.9
CFSM	.61	.57	.65	1.12	1.95	1.86	2.09	.62	.33	.35	.19	.14
IN.	.71	.63	.75	1.29	2.11	2.14	2.34	.72	.37	.40	.22	.16

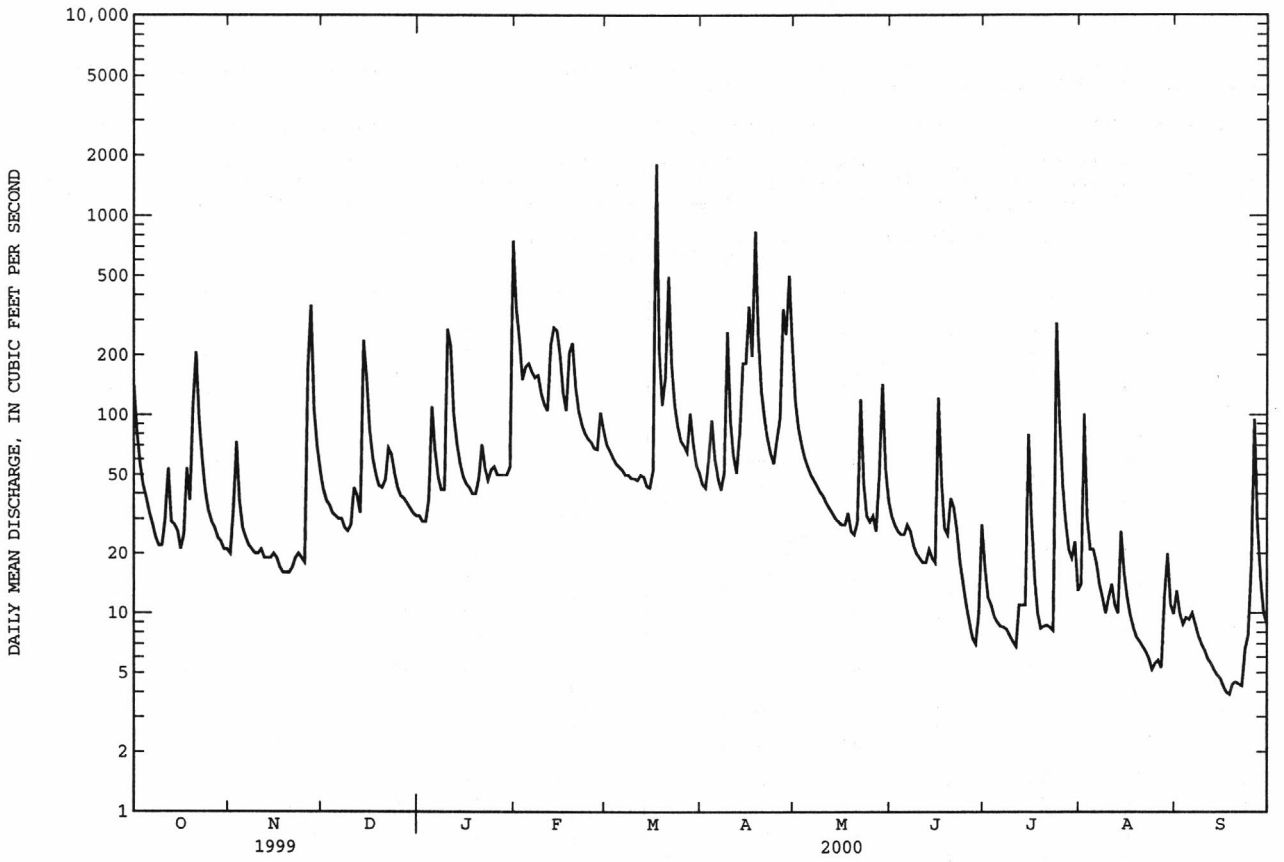
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	33.5	42.1	60.0	140	140	186	112	57.4	38.9	29.6	22.1	55.1
MAX	97.7	120	162	257	379	456	236	165	194	104	114	329
(WY)	1996	1996	1997	1998	1998	1993	1993	1990	1995	1989	1989	1996
MIN	.14	1.33	8.10	29.0	47.7	30.9	17.1	12.2	5.53	1.59	.37	1.27
(WY)	1994	1999	1995	1989	1999	1988	1995	1995	1994	1988	1999	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	24083.06		24887.4			
ANNUAL MEAN	66.0		68.0		76.1	
HIGHEST ANNUAL MEAN					115	1998
LOWEST ANNUAL MEAN					30.8	1988
HIGHEST DAILY MEAN	3300	Sep 16	1820	Mar 17	6500	Sep 6 1996
LOWEST DAILY MEAN	.13	Aug 19	3.9	Sep 18	.00	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	.15	Aug 18	4.3	Sep 16	.00	Aug 19 1988
INSTANTANEOUS PEAK FLOW			4030*	Mar 17	11600*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			7.82	Mar 17	13.26*	Sep 6 1996
INSTANTANEOUS LOW FLOW			3.7	Sep 18	.00*	Aug 18 1988
ANNUAL RUNOFF (CFSM)	.84		.87		.97	
ANNUAL RUNOFF (INCHES)	11.46		11.84		13.22	
10 PERCENT EXCEEDS	97		154		155	
50 PERCENT EXCEEDS	24		36		26	
90 PERCENT EXCEEDS	1.1		8.5		1.9	

e Estimated.
* See REMARKS.

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC--Continued



0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC

LOCATION.--Lat 36°08'58", long 78°53'49", Durham County, Hydrologic Unit 03020201, on right bank at bridge on Secondary Road 1617 and 1.6 mi southwest of Bahama.

DRAINAGE AREA.--8.0 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 370 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for period of record from floodmarks. Maximum gage height for period of record occurred Sept. 6, 1996, discharge not determined.

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	3.1	3.1	2.0	24	5.2	5.6	12	4.8	1.4	4.5	4.9
2	12	12	2.9	2.0	17	4.6	5.5	8.5	4.2	.92	17	3.5
3	9.0	10	2.6	1.8	15	3.9	9.2	6.9	3.5	.67	7.8	1.9
4	8.1	5.1	2.6	6.4	18	3.6	9.0	5.4	2.6	.52	5.7	2.0
5	7.1	4.0	2.5	10	18	3.3	7.0	4.9	2.6	.50	3.7	1.9
6	5.7	3.6	2.8	4.8	15	3.1	5.2	4.3	3.1	.46	2.6	1.3
7	4.8	3.2	2.5	3.7	14	2.9	4.9	3.9	2.3	.41	1.9	1.1
8	4.3	3.2	2.1	3.1	13	2.8	12	3.3	1.6	.37	1.6	.89
9	4.2	3.0	2.0	3.9	11	2.8	18	3.1	1.2	.37	1.3	.77
10	4.8	2.9	3.3	52	9.6	2.7	8.9	2.7	.99	.35	1.6	.64
11	8.9	3.1	4.1	18	8.3	2.6	7.2	2.4	.96	.28	1.2	.58
12	15	3.0	2.9	8.5	38	2.8	5.9	2.1	1.4	4.6	.96	.51
13	6.6	2.9	2.6	6.1	24	2.2	17	2.0	2.8	.97	1.1	.49
14	5.3	3.0	25	4.4	33	2.0	20	1.9	1.3	.95	1.1	.44
15	4.1	3.1	11	3.5	15	1.9	23	1.7	1.7	18	.85	.45
16	3.7	2.9	6.4	3.5	10	9.9	53	1.5	16	3.7	.74	.36
17	8.8	2.3	4.5	3.1	8.4	289	20	1.4	4.3	1.5	.62	.29
18	13	2.1	3.7	2.9	29	18	115	1.5	1.9	.82	.55	.29
19	6.6	2.1	3.5	3.0	18	12	21	1.3	1.8	.52	.71	.62
20	18	2.1	3.6	5.1	11	30	11	1.8	4.0	.79	.54	.50
21	22	2.4	3.8	5.2	8.7	58	8.4	3.5	2.9	.58	.45	.45
22	11	2.7	5.4	3.6	7.4	17	6.4	36	1.9	.56	.40	.38
23	7.6	2.8	4.4	3.6	6.6	12	5.1	6.2	1.6	.74	.36	1.7
24	5.5	2.8	3.7	5.3	6.9	9.9	4.4	3.4	1.2	52	.37	1.2
25	4.6	2.8	3.3	10	5.2	8.7	8.0	4.1	1.0	10	.43	9.5
26	7.0	34	2.9	7.8	4.6	8.9	6.7	3.1	.82	7.2	.43	15
27	4.3	21	2.8	5.9	5.0	8.5	45	1.9	.66	4.1	.40	4.9
28	3.2	8.3	2.8	e5.2	11	11	39	28	.97	2.5	5.9	2.1
29	3.1	5.1	2.4	e4.6	6.7	7.6	47	56	2.8	16	1.8	1.4
30	2.9	3.7	2.2	44	---	7.0	34	11	2.2	14	1.2	1.1
31	3.1	---	2.1	62	---	6.4	---	6.6	---	5.0	1.8	---
TOTAL	244.3	162.3	129.5	305.0	411.4	560.3	582.4	232.4	79.10	150.78	69.61	61.16
MEAN	7.88	5.41	4.18	9.84	14.2	18.1	19.4	7.50	2.64	4.86	2.25	2.04
MAX	22	34	25	62	38	289	115	56	16	52	17	15
MIN	2.9	2.1	2.0	1.8	4.6	1.9	4.4	1.3	.66	.28	.36	.29
CFSM	.99	.68	.52	1.23	1.77	2.26	2.43	.94	.33	.61	.28	.25
IN.	1.14	.75	.60	1.42	1.91	2.61	2.71	1.08	.37	.70	.32	.28

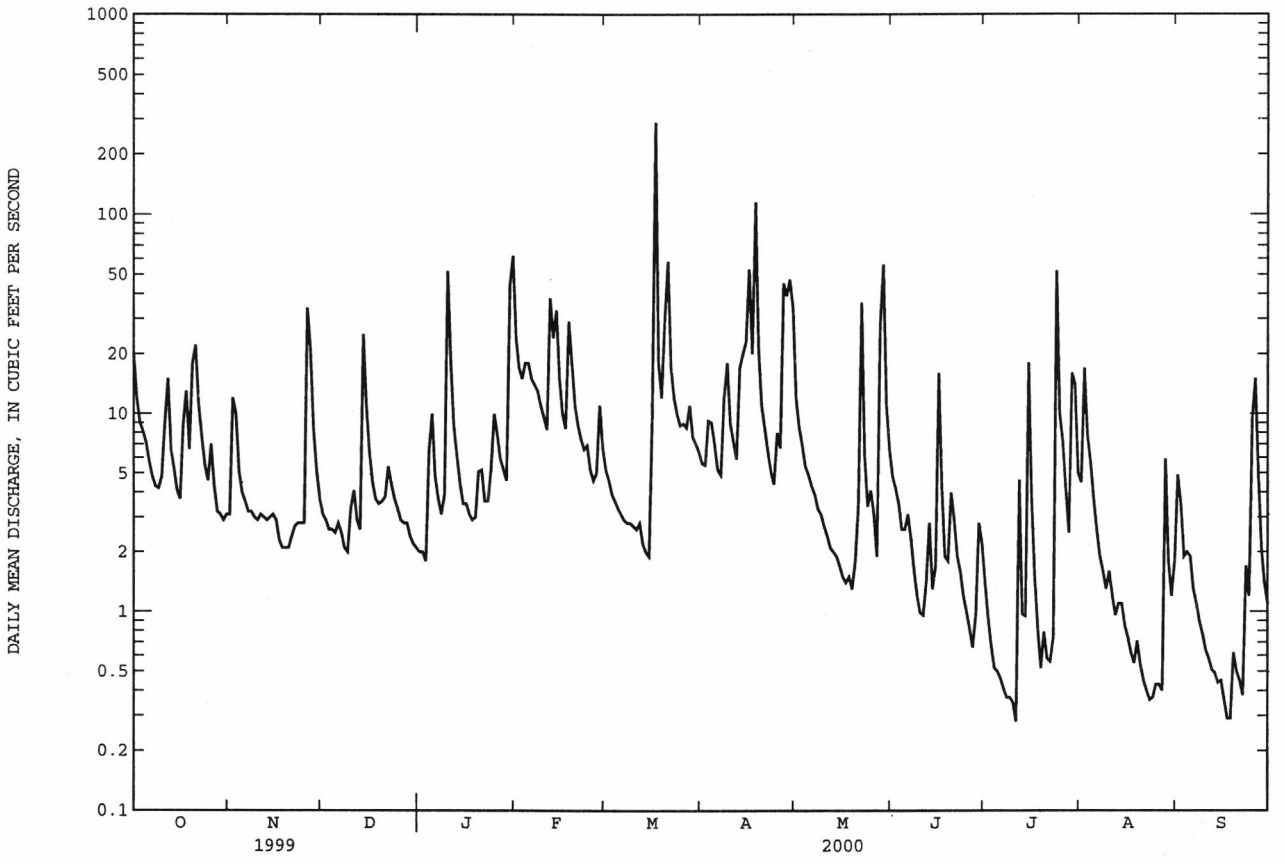
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	3.14	3.86	4.90	14.0	15.4	18.0	10.8	4.80	7.15	2.46	1.26	20.0
MAX	7.88	9.41	12.9	27.3	36.2	49.9	19.4	9.34	29.7	7.40	4.33	74.0
(WY)	2000	1996	1997	1998	1998	1998	2000	1996	1995	1995	1996	1996
MIN	.035	.061	.50	5.61	6.47	6.99	1.50	1.76	.29	.17	.015	.18
(WY)	1999	1999	1995	1995	1999	1999	1995	1995	1999	1999	1999	1995

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	3032.86		2988.25			
ANNUAL MEAN	8.31		8.16		8.75	
HIGHEST ANNUAL MEAN					13.1	1996
LOWEST ANNUAL MEAN					5.74	1995
HIGHEST DAILY MEAN	382	Sep 16	289	Mar 17	1000	Sep 6 1996
LOWEST DAILY MEAN	.00	Aug 3	.28	Jul 11	.00	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 3	.39	Jul 5	.00	Aug 3 1999
INSTANTANEOUS PEAK FLOW			1340	Mar 17	NOT DETERMINED*	
INSTANTANEOUS PEAK STAGE			9.86	Mar 17	12.56	Sep 6 1996
INSTANTANEOUS LOW FLOW			.24	Jul 11	.00	Aug 3 1999
ANNUAL RUNOFF (CFSM)	1.04		1.02		1.09	
ANNUAL RUNOFF (INCHES)	14.10		13.90		14.86	
10 PERCENT EXCEEDS	12		18		15	
50 PERCENT EXCEEDS	2.8		3.7		2.7	
90 PERCENT EXCEEDS	.04		.70		.10	

e Estimated.
* See REMARKS.

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued



0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988-91, 1994 to current year.

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic chemical data and trace metal data were analyzed by the city of Durham's Brown Water Treatment Plant Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	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, NITRATE DIS-SOLVED (MG/L AS N) (00618)
NOV												
02...	1130	4.3	748	87	8.5	6.3	85	15.8	.23	.43	<.020	--
30...	1330	3.5	765	101	11.7	7.1	98	9.1	--	.26	.009	.155
JAN												
05...	1330	9.2	760	90	10.2	6.7	88	9.6	.29	.49	.020	--
FEB												
15...	1445	13	760	98	11.3	6.5	84	9.3	.15	.28	<.020	--
MAR												
21...	1710	29	760	95	10.4	6.3	66	11.5	.42	.66	.037	--
APR												
18...	1200	102	751	92	9.2	6.3	59	14.6	.49	.63	.036	--
MAY												
16...	1100	1.8	760	90	8.7	6.6	95	17.0	.25	.31	<.020	--
JUN												
15...	1030	1.5	754	89	7.5	6.9	103	23.0	.29	.34	<.020	--
JUL												
13...	1200	.94	753	89	7.7	6.8	93	21.9	.30	.46	<.020	--
AUG												
15...	1110	.78	756	91	7.9	7.1	109	21.6	.25	.30	<.020	--
SEP												
12...	1100	.52	754	95	8.3	7.2	113	21.3	.23	.30	<.020	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	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)	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)
NOV												
02...	--	.63	.43	.205	<.010	--	<.050	.011	.073	--	--	--
30...	--	.42	--	.157	.002	.25	--	.001	<.050	--	--	--
JAN												
05...	.27	.81	.61	.323	<.010	.47	<.050	<.010	E.048	--	--	--
FEB												
15...	--	.66	.53	.380	<.010	--	<.050	<.010	E.034	--	--	--
MAR												
21...	.38	.90	.66	.241	<.010	.62	E.032	<.010	.063	--	--	--
APR												
18...	.46	.80	.66	.166	<.010	.60	E.041	.019	.105	568	<3	<.1
MAY												
16...	--	.71	.65	.395	<.010	--	<.050	<.010	<.050	58	<3	<.1
JUN												
15...	--	.80	.75	.456	<.010	--	<.050	<.010	E.032	--	--	--
JUL												
13...	--	.73	.58	.276	<.010	--	<.050	.019	.051	--	--	--
AUG												
15...	--	.56	.51	.268	<.010	--	<.050	<.010	E.045	--	--	--
SEP												
12...	--	.51	.44	.207	<.010	--	<.050	<.010	<.050	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

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

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<1	<2	3	1420	2	270	<.3	<1	<2	<3	<1	E19
MAY												
16...	<1	<2	<1	690	<1	44	<.3	<1	<2	<3	<1	<31
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	2,4,5-T DISSOLVED (UG/L) (39742)	2,4-D, DISSOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBOFURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFLUORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDICARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICARB SULFOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDICARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDRIN, TOTAL (UG/L) (39330)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.04	.13	<.10	<.003	<.11	<.002	<.09	<.002	<.10	<.02	<.21	<.013
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTAZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BROMACIL, WATER, DISS, REC (UG/L) (04029)	BROMOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CARBOPHENOTHION WATER UNFLTRD (UG/L) (39786)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.002	.011	<.002	<.04	<.06	<.04	<.002	<.07	<.003	<.29	<.003	<.01
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

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

DATE	CHLORDANE, TECHNICAL TOTAL (UG/L) (39350)	CHLOROTHALONIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CHLORPYRIFOS TOTAL RECOVER (UG/L) (38932)	CLOPYRALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONOACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DEF TOTAL (UG/L) (39040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIAZINON, TOTAL (UG/L) (39570)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.1	<.48	<.004	<.01	<.23	.012	<.04	<.002	E.010	<.02	<.002	<.02
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOBENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLORPROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DIELDRIN DISSOLVED (UG/L) (39381)	DIELDRIN TOTAL (UG/L) (39380)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DISULFOTON UNFILT RECOVER (UG/L) (39011)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	ENDOSULFAN I TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.04	<.07	<.03	<.001	<.009	<.06	<.017	<.03	<.06	<.42	<.015	<.014
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHION, TOTAL (UG/L) (39398)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FENURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUOMETURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS (DYFONATE) WATER WHOLE TOT.REC (UG/L) (82614)	FONOFOS WATER DISS REC (UG/L) (04095)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR, TOTAL (UG/L) (39410)	LINDANE DISSOLVED (UG/L) (39341)	LINDANE TOTAL (UG/L) (39340)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.002	<.004	<.01	<.003	<.07	<.06	<.01	<.003	<.009	<.011	<.004	<.012
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

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

DATE	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MALA-THION, TOTAL (UG/L) (39530)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION, TOTAL (UG/L) (39600)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.09	<.002	<.005	<.03	<.17	<.13	<.03	<.39	<.01	<.001	<.01
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	MIREX, TOTAL (UG/L) (39755)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.006	E.011	<.004	<.01	<.004	<.003	<.07	<.04	<.31	<.09	<.006
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

DATE	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	P,P'-DDE, TOTAL (UG/L) (39365)	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PARA-THION, TOTAL (UG/L) (39540)	PCB, TOTAL (UG/L) (39516)	PCNS UNFILT RECOVER (UG/L) (39250)	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)	PER-THANE TOTAL (UG/L) (39034)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.014	<.016	<.017	<.004	<.01	<.1	<.1	<.004	<.004	<.005	<.1
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

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

DATE	PHORATE TOTAL (UG/L) (39023)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PICLORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PROPHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROPOXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DISSOLVED (UG/L) (39762)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.02	<.002	<.05	E.004	<.003	<.007	<.004	<.013	<.04	<.08	<.06
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TOXAPHENE, TOTAL (UG/L) (39400)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRICLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV											
02...	--	--	--	--	--	--	--	--	--	35	.41
30...	--	--	--	--	--	--	--	--	--	4	.04
JAN											
05...	--	--	--	--	--	--	--	--	--	15	.37
FEB											
15...	--	--	--	--	--	--	--	--	--	5	.18
MAR											
21...	--	--	--	--	--	--	--	--	--	17	1.3
APR											
18...	E.004	<.010	<.007	<.013	<.002	<1	<.001	<.25	<.002	52	14
MAY											
16...	--	--	--	--	--	--	--	--	--	5	.02
JUN											
15...	--	--	--	--	--	--	--	--	--	4	.02
JUL											
13...	--	--	--	--	--	--	--	--	--	15	.04
AUG											
15...	--	--	--	--	--	--	--	--	--	4	.01
SEP											
12...	--	--	--	--	--	--	--	--	--	3	.00

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°06'53", long 78°52'10", Durham County, Hydrologic Unit 03020201, at dam 7.5 mi below State Highway 501, and 4.0 mi south of Bahama.

DRAINAGE AREA.--97.7 mi^2.

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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											
21...	1200	753	51	4.7	6.2	54	19.2	18	4.28	1.77	2.0
21...	1201	753	4	.4	6.1	78	18.1	--	--	--	--
21...	1203	753	42	3.9	6.3	55	18.8	--	--	--	--
APR											
25...	1100	749	95	9.1	6.9	64	16.9	19	4.50	1.93	1.4
25...	1101	749	28	3.4	6.8	77	7.1	--	--	--	--
25...	1102	749	42	4.9	6.3	71	8.2	--	--	--	--
JUL											
20...	1345	752	100	7.7	6.9	76	28.1	24	5.93	2.35	1.6
20...	1350	752	1	.1	6.2	89	22.1	--	--	--	--
20...	1351	752	2	.3	6.6	217	8.8	--	--	--	--
SEP											
26...	1240	754	43	3.6	6.4	79	23.3	--	--	--	--
26...	1245	754	45	3.8	6.4	80	23.3	24	5.87	2.31	1.7
26...	1246	754	40	3.4	6.4	80	23.2	--	--	--	--
26...	1247	754	1	.1	6.9	189	9.9	--	--	--	--

DATE	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)	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)
OCT											
21...	.2	2.4	20	13	16	2.9	<.1	8.5	4.1	.78	.128
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	.75	.237
APR											
25...	.4	3.6	27	--	--	4.6	<.1	9.4	4.0	.54	.024
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	.4	4.4	26	23	28	5.2	<.1	9.2	3.4	.53	<.002
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.4	4.2	26	19	23	4.4	<.1	8.6	2.4	.50	.095
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)
OCT											
21...	.89	.117	.007	.65	<.001	.057	10	110	52	1.25	2.9
21...	--	.008	.011	--	.192	.284	--	--	--	--	--
21...	.85	.103	.007	.51	<.001	.051	--	--	--	--	--
APR											
25...	.61	.064	.004	.52	.005	E.039	9.4	55	58	.85	E7.4
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	<.005	<.001	--	.002	<.050	7.2	36	58	.95	17.8
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.60	.107	.008	.40	.001	<.050	5.7	15	46	1.00	1.4
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, 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											
21...	<.1	137	<3	<.1	<1	<2	2	470	<1	197	<.3
21...	--	--	--	--	--	--	--	15200	--	31500	--
21...	--	--	--	--	--	--	--	660	--	745	--
APR											
25...	.8	131	3	<.1	<1	<2	1	440	<1	25	<.3
25...	--	--	--	--	--	--	--	670	--	407	--
25...	--	--	--	--	--	--	--	590	--	135	--
JUL											
20...	1.0	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	150	--	2950	--
20...	--	--	--	--	--	--	--	5580	--	4700	--
SEP											
26...	--	--	--	--	--	--	--	120	--	534	--
26...	<.1	--	--	--	--	--	--	130	--	544	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	14100	--	13000	--

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											
21...	<1	<2	<3	<1	<31	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	<1	E1	<3	<1	<31	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

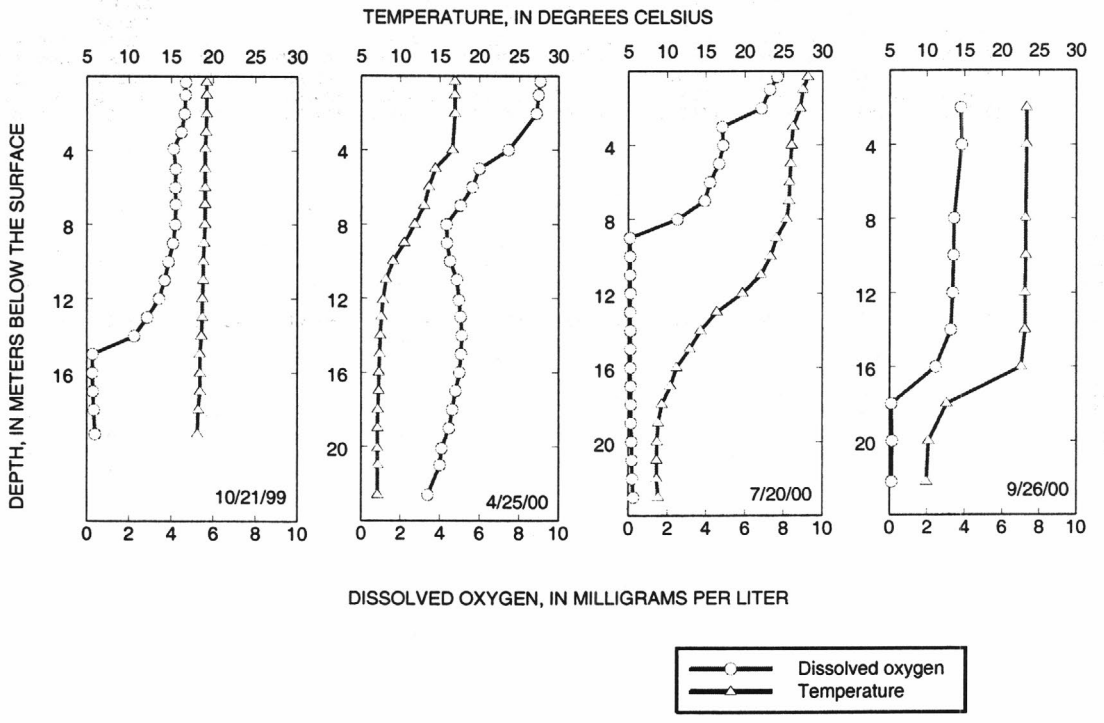
DATE	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE 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											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<3.0	<3.00	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, 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											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<3.0	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0	<3.0	<3.0
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

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										
21...	--	--	--	--	--	--	--	--	--	.33
21...	--	--	--	--	--	--	--	--	--	19.3
21...	--	--	--	--	--	--	--	--	--	10.0
APR										
25...	--	--	--	--	--	--	--	--	--	.33
25...	--	--	--	--	--	--	--	--	--	22.6
25...	--	--	--	--	--	--	--	--	--	11.0
JUL										
20...	<3.0	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<1.0	.30
20...	--	--	--	--	--	--	--	--	--	11.0
20...	--	--	--	--	--	--	--	--	--	23.0
SEP										
26...	--	--	--	--	--	--	--	--	--	6.0
26...	--	--	--	--	--	--	--	--	--	1.0
26...	--	--	--	--	--	--	--	--	--	10.0
26...	--	--	--	--	--	--	--	--	--	22.0



0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'56", long 78°51'30", Durham County, Hydrologic Unit 03020201, 0.2 mi above mouth and 0.8 mi northeast of Fairntosh.

DRAINAGE AREA.--0.86 mi^2.

PERIOD OF RECORD.--Water years 1994 to current year.

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	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, NITRATE DIS-SOLVED (MG/L AS N) (00618)
NOV												
10...	1145	.17	760	65	6.8	6.6	165	13.2	.19	.50	.035	--
DEC												
01...	1115	.31	758	70	8.4	6.9	164	7.1	--	.14	.025	.048
JAN												
04...	1515	.44	749	81	8.1	7.2	185	14.2	.15	.24	.025	--
FEB												
15...	1300	1.5	757	99	11.2	6.7	117	9.7	.14	.28	<.020	--
MAR												
22...	1130	1.4	764	93	10.4	6.4	108	10.3	.24	.30	.024	--
APR												
18...	0945	6.3	752	91	9.2	6.3	86	14.1	.47	.64	.023	--
MAY												
15...	1440	.15	759	95	8.6	6.7	191	19.8	.62	.70	.040	--
JUN												
14...	1320	.02	756	108	8.4	7.4	222	27.3	.28	.33	.032	--
JUL												
12...	1245	.35	754	75	6.3	6.6	156	23.4	.65	.86	.098	--
AUG												
14...	1340	.08	755	90	7.7	6.9	199	22.3	.28	.34	.022	--
SEP												
11...	1425	.03	756	88	7.5	7.0	218	22.8	.29	.32	.025	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	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)	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)
NOV												
10...	.15	--	--	<.050	<.010	.46	<.050	<.010	E.035	--	--	--
DEC												
01...	--	.19	--	.049	.001	.12	--	.003	<.050	--	--	--
JAN												
04...	.12	--	--	<.050	<.010	.22	<.050	<.010	<.050	--	--	--
FEB												
15...	--	.36	.22	.079	<.010	--	<.050	<.010	<.050	--	--	--
MAR												
22...	.22	.35	.29	.051	<.010	.28	<.050	<.010	<.050	--	--	--
APR												
18...	.44	.74	.56	.100	<.010	.62	.057	.033	.089	512	<3	<.1
MAY												
15...	.58	.89	.81	.188	<.010	.66	<.050	<.010	E.032	183	<3	<.1
JUN												
14...	.25	.51	.46	.173	<.010	.30	<.050	<.010	<.050	--	--	--
JUL												
12...	.55	1.3	1.1	.429	<.010	.76	E.035	.022	.114	--	--	--
AUG												
14...	.26	.41	.35	.067	<.010	.32	<.050	<.010	<.050	--	--	--
SEP												
11...	.26	.40	.37	.078	<.010	.30	<.050	<.010	<.050	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

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

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
NOV 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	<1	<2	3	790	1	105	<.3	<1	<2	<3	<1	<31
MAY 15...	<1	E1	1	710	<1	128	<.3	<1	<2	<3	<1	<31
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	2,4,5-T DISSOLVED (UG/L) (39742)	2,4-D, DISSOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBOFURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFLUORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDICARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICARB SULFOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDICARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDRIN, TOTAL (UG/L) (39330)
NOV 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	<.04	<.11	<.10	<.003	<.11	<.004	<.09	<.005	<.10	<.02	<.21	<.013
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

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

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CARBO-PHENO-THION WATER UNFLTRD (UG/L) (39786)
NOV 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	<.002	.008	<.005	<.04	<1.50	<.04	<.003	<.07	E.007	<.29	<.003	<.01
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CHLOR-PYRIFOS TOTAL RECOVER (UG/L) (38932)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DEF TOTAL (UG/L) (39040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-AZINON, TOTAL (UG/L) (39570)
NOV 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	<.1	<.48	.008	<.01	<.23	<.004	<.04	<.002	E.007	<.02	.067	.03
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

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

DATE	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DI-ELDRIN TOTAL (UG/L) (39380)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DISUL-FOTON UNFILT RECOVER (UG/L) (39011)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	ENDO-SULFAN I TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)
NOV 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	<.04	<.07	<.03	<.001	<.009	<.06	<.017	<.03	<.06	<.42	<.015	<.014
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

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)	ETHION, TOTAL (UG/L) (39398)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	FONOFOS WATER DISS REC (UG/L) (04095)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	LINDANE DIS-SOLVED (UG/L) (39341)	LINDANE TOTAL (UG/L) (39340)
NOV 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	<.002	<.004	<.01	<.003	<.07	<.06	<.01	<.003	<.009	<.011	<.004	<.012
MAY 15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

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

DATE	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MALA-THION, TOTAL (UG/L) (39530)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION, TOTAL (UG/L) (39600)
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.09	<.002	<.005	<.03	<.17	<.13	<.03	<.11	<.01	<.001	<.01
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	MIREX, TOTAL (UG/L) (39755)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.006	.008	<.005	<.01	<.004	<.003	<.07	<.04	<.31	<.44	<.006
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

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

DATE	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	P,P'-DDE, TOTAL (UG/L) (39365)	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	PARATHION, DISSOLVED (UG/L) (39542)	PARATHION, TOTAL (UG/L) (39540)	PCB, TOTAL (UG/L) (39516)	PCNS UNFILT RECOVER (UG/L) (39250)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PERTHANE TOTAL (UG/L) (39034)
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.014	<.016	<.017	<.004	<.01	<.1	<.1	<.004	.293	<.005	<.1
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE TOTAL (UG/L) (39023)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PICLORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PROPHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROPOXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DISSOLVED (UG/L) (39762)
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.02	<.002	<.05	E.008	.012	<.007	<.004	<.013	<.04	<.08	<.06
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

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

DATE	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)	TOX-APHENE, TOTAL (UG/L) (39400)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV											
10...	--	--	--	--	--	--	--	--	--	9	.00
DEC											
01...	--	--	--	--	--	--	--	--	--	33	.03
JAN											
04...	--	--	--	--	--	--	--	--	--	5	.01
FEB											
15...	--	--	--	--	--	--	--	--	--	6	.03
MAR											
22...	--	--	--	--	--	--	--	--	--	10	.04
APR											
18...	.337	<.010	E.009	<.013	<.002	<1	<.001	<.25	<.005	34	.58
MAY											
15...	--	--	--	--	--	--	--	--	--	10	.00
JUN											
14...	--	--	--	--	--	--	--	--	--	7	.00
JUL											
12...	--	--	--	--	--	--	--	--	--	46	.04
AUG											
14...	--	--	--	--	--	--	--	--	--	7	.00
SEP											
11...	--	--	--	--	--	--	--	--	--	7	.00



Old USGS gaging station at Eno River at Hillsborough.

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'46", long 78°51'35", Durham County, Hydrologic Unit 03020201, 125 ft downstream of the mouth of Little River tributary and 0.5 mi downstream of Little River dam.

DRAINAGE AREA.--98.9 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by releases from the Little River Reservoir. Maximum discharge for period of record from extension of rating curve based on contracted-opening measurement of peak flow. Maximum gage height for period of record from floodmarks. Instantaneous low flow for the water year not determined due to the effects of beaver dams on the gage height-discharge relationship.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	2.6	30	18	400	56	34	131	5.9	2.6	3.8	5.8
2	96	8.0	22	18	238	39	26	61	2.2	2.5	6.2	3.3
3	39	23	22	18	171	35	44	39	1.7	2.5	2.5	2.4
4	21	16	21	24	179	32	69	27	1.7	2.4	9.4	2.4
5	15	6.7	19	65	223	30	50	21	1.7	2.5	4.5	2.6
6	13	4.0	20	55	197	27	53	15	2.5	3.9	2.4	2.4
7	9.8	e3.0	22	46	174	29	46	12	1.9	2.7	2.3	2.6
8	8.5	e2.8	20	29	170	22	37	8.1	1.7	2.6	2.4	2.9
9	1.4	e2.7	20	28	149	24	205	7.3	1.8	2.6	2.5	2.9
10	3.6	e2.6	21	228	101	25	125	7.3	1.8	2.6	3.1	2.8
11	4.6	e2.5	22	410	91	20	54	6.3	2.1	2.6	2.7	2.8
12	22	e2.4	23	145	167	26	40	6.1	2.3	9.1	2.5	2.9
13	12	e2.3	23	73	388	19	36	6.0	2.3	2.9	2.6	3.0
14	6.4	e2.2	153	46	313	15	150	5.9	2.2	2.7	2.5	3.4
15	4.0	e2.2	253	30	288	16	170	5.9	2.4	2.3	2.3	3.4
16	3.4	e2.2	104	34	157	26	432	6.3	3.8	2.0	2.4	3.1
17	6.4	e2.2	51	23	104	3290	243	6.4	2.5	2.7	2.5	3.0
18	29	e2.0	33	24	167	403	1400	6.6	2.5	2.5	2.5	10
19	17	e2.0	36	19	309	143	378	6.7	3.4	2.7	2.7	2.7
20	48	e2.0	27	34	177	164	168	7.9	3.1	3.4	2.6	2.6
21	228	e2.0	30	43	105	567	95	9.2	2.6	2.1	2.6	2.9
22	123	e2.2	40	46	86	268	56	11	2.6	1.3	2.5	2.8
23	47	e2.3	47	32	59	136	38	13	2.5	2.0	2.3	6.9
24	30	e2.4	38	37	56	94	32	13	2.5	28	1.9	2.9
25	9.7	e2.5	29	83	44	65	36	12	2.4	5.7	4.6	5.8
26	12	e2.6	33	79	45	65	52	13	2.4	3.7	2.0	4.5
27	2.8	342	21	71	42	61	269	6.5	2.5	3.0	2.0	3.2
28	2.3	151	22	59	70	86	275	8.6	4.8	2.5	12	2.7
29	1.4	63	21	39	66	71	588	124	5.6	3.6	3.2	2.6
30	1.8	40	18	113	---	47	330	50	3.0	2.6	3.9	2.4
31	2.1	---	18	775	---	42	---	15	---	2.9	3.3	---
TOTAL	1066.2	703.4	1259	2744	4736	5943	5531	668.1	80.4	117.2	104.7	103.7
MEAN	34.4	23.4	40.6	88.5	163	192	184	21.6	2.68	3.78	3.38	3.46
MAX	246	342	253	775	400	3290	1400	131	5.9	28	12	10
MIN	1.4	2.0	18	18	42	15	26	5.9	1.7	1.3	1.9	2.4

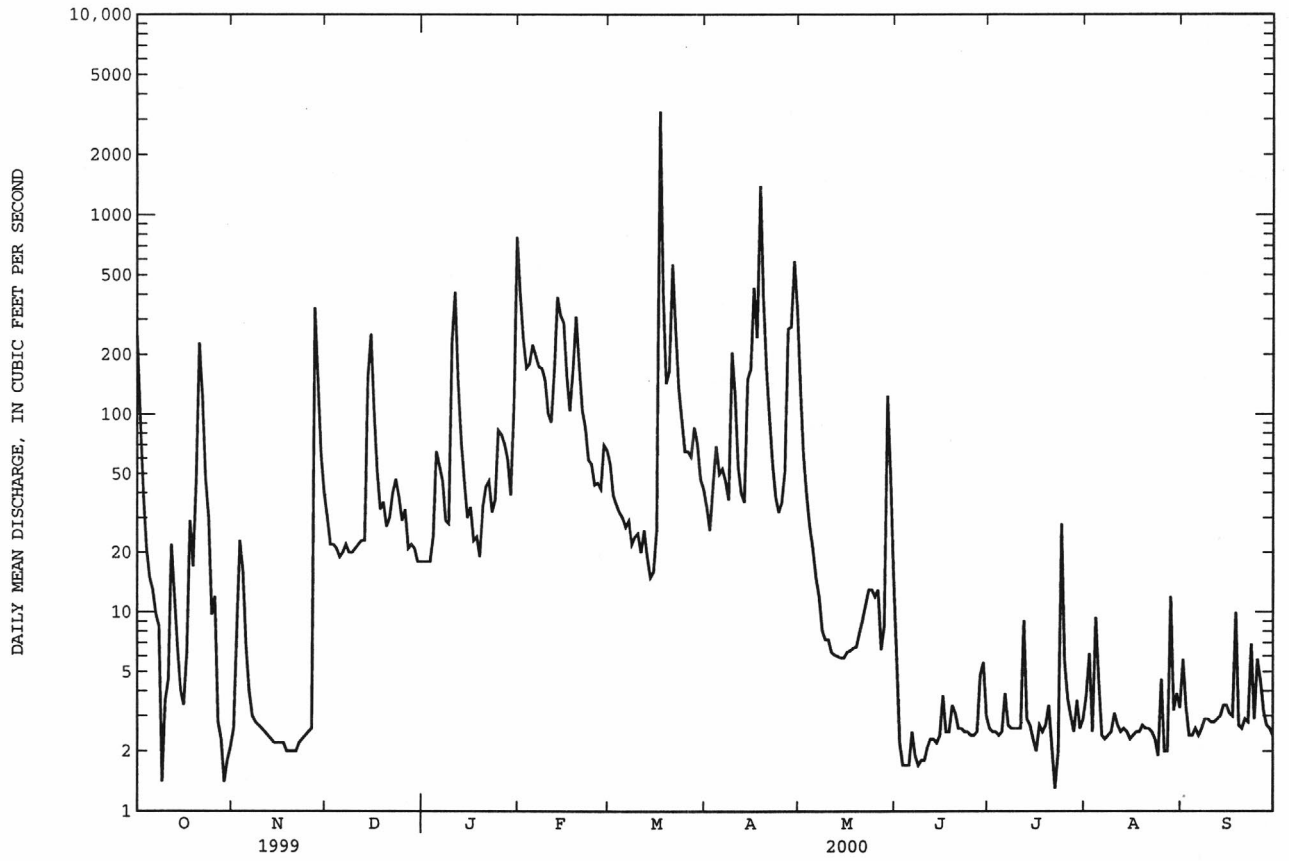
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	18.9	43.8	73.3	143	207	247	142	38.6	11.0	3.96	8.62	201
MAX	36.0	149	161	333	509	705	221	88.4	23.8	4.88	29.4	538
(WY)	1997	1996	1996	1998	1998	1998	1997	1996	1997	1996	1996	1996
MIN	2.02	2.04	2.27	77.6	41.5	61.5	77.5	21.6	2.68	2.64	2.35	3.07
(WY)	1998	1999	1999	1996	1999	1999	1999	2000	2000	1999	1999	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	25973.76		23056.7			
ANNUAL MEAN	71.2		63.0		87.4	
HIGHEST ANNUAL MEAN					144	1998
LOWEST ANNUAL MEAN					63.0	2000
HIGHEST DAILY MEAN	4580	Sep 16	3290	Mar 17	10300	Sep 6 1996
LOWEST DAILY MEAN	.96	Aug 29	1.3	Jul 22	.41	Nov 22 1998
ANNUAL SEVEN-DAY MINIMUM	1.7	Aug 7	1.9	Jun 3	.62	Nov 18 1998
INSTANTANEOUS PEAK FLOW			6660	Mar 17	16600*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			13.11	Mar 17	17.27*	Sep 6 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		1.2	Oct 9 1999
10 PERCENT EXCEEDS	100		167		153	
50 PERCENT EXCEEDS	8.0		13		11	
90 PERCENT EXCEEDS	2.2		2.3		2.3	

e Estimated.
* See REMARKS.

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued



0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	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, NITRATE DIS-SOLVED (MG/L AS N) (00618)
NOV												
08...	1100	E2.8	768	70	7.2	6.2	78	14.0	.43	.66	.041	--
DEC												
01...	1430	34	758	94	10.2	7.2	62	11.6	--	.60	.043	.224
JAN												
05...	1100	68	760	93	10.9	7.1	64	8.7	.41	.53	.051	--
FEB												
16...	1315	152	757	100	12.2	6.8	71	6.8	.26	.46	.021	--
MAR												
22...	1530	228	763	98	10.5	6.5	63	12.2	.40	.61	.075	--
APR												
18...	1630	1430	753	99	9.8	6.7	67	15.5	.29	.47	<.020	--
MAY												
15...	1655	6.2	757	96	8.8	6.3	71	19.7	.41	.46	.040	--
JUN												
14...	1535	2.3	755	107	8.3	6.9	80	27.6	.34	.52	<.020	--
JUL												
12...	1430	3.3	755	64	5.2	6.6	85	25.0	.60	.73	.102	--
AUG												
14...	1525	2.5	755	93	7.4	6.7	86	26.9	.37	.47	.043	--
SEP												
11...	1600	2.7	755	116	9.3	7.4	87	26.2	.38	.58	<.020	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV											
08...	.39	.87	.63	.201	<.010	.62	<.050	.018	.052	6	--
DEC											
01...	--	.82	--	.226	.002	.55	--	.001	<.050	4	.37
JAN											
05...	.36	.79	.67	.260	<.010	.48	<.050	<.010	<.050	5	.92
FEB											
16...	.24	.85	.65	.391	<.010	.43	E.031	<.010	E.034	4	1.6
MAR											
22...	.32	.87	.65	.252	<.010	.54	<.050	<.010	.072	10	6.2
APR											
18...	--	.63	.45	.157	<.010	--	<.050	<.010	E.039	7	27
MAY											
15...	.37	.67	.62	.213	<.010	.42	<.050	<.010	E.032	6	.10
JUN											
14...	--	.69	.50	.162	<.010	--	<.050	<.010	E.039	8	.05
JUL											
12...	.50	.99	.86	.256	<.010	.63	.078	.061	.139	37	.33
AUG											
14...	.32	--	--	<.050	<.010	.43	<.050	.011	E.048	9	.06
SEP											
11...	--	--	--	<.050	<.010	--	E.041	<.010	.060	10	.07



USGS gaging station at Devils Gut transect (site #3).

02085500 FLAT RIVER AT BAHAMA, NC

LOCATION.--Lat 36°10'57", long 78°52'44", Durham County, Hydrologic Unit 03020201, on right bank 0.5 mi upstream from Lake Michie, 1.2 mi upstream from bridge on Secondary Road 1616, 1.2 mi north of Bahama, and 1.5 mi upstream from Dial Creek.

DRAINAGE AREA.--149 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1925 to current year.

REVISED RECORDS.--WSP 1333: 1926, 1928(M), 1938, 1946. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 346.85 ft above sea level. Prior to Oct. 22, 1925, nonrecording gage at present site at 346.27 ft. Satellite telemetry at station.

REMARKS.--Records good except for estimated daily discharges, which are poor. Prior to December 1962, some diurnal fluctuation and infrequent regulation at low flow caused by small mill 5 mi upstream. Maximum discharge for period of record from rating curve extended above 18,000 ft^3/s, on basis of slope-conveyance measurement of peak flow; maximum gage height, 17.26 ft, from high-water mark inside gage shelter. Minimum discharge for current water year also occurred on Sept. 19, 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	296	51	71	47	574	102	89	286	53	74	36	35
2	178	70	63	45	421	93	82	195	45	48	137	45
3	126	123	58	45	321	85	119	152	40	38	68	26
4	99	80	54	50	378	80	215	120	91	32	47	54
5	86	61	51	224	405	77	128	103	61	29	51	62
6	76	56	50	124	368	71	95	93	52	27	51	42
7	66	52	51	84	332	67	83	84	48	25	37	31
8	58	50	48	71	359	66	85	76	39	24	31	25
9	53	48	44	66	273	65	658	69	33	23	27	21
10	51	47	47	646	223	64	235	64	30	21	32	19
11	78	46	54	588	197	61	142	59	29	20	56	17
12	190	46	54	229	422	63	107	56	26	27	36	15
13	89	45	48	154	588	63	108	53	24	48	29	14
14	126	45	255	110	530	56	284	53	24	30	26	13
15	92	44	265	89	429	55	245	49	67	74	27	13
16	66	42	126	80	247	79	621	46	506	64	24	12
17	64	41	89	75	187	2760	316	45	159	34	21	15
18	150	39	72	69	371	432	2160	43	68	26	18	13
19	106	39	65	67	520	232	626	41	79	21	17	12
20	360	39	63	73	275	212	317	40	719	19	16	11
21	681	40	68	107	191	904	217	59	197	17	16	13
22	262	42	123	90	153	385	167	114	96	17	15	13
23	157	43	119	76	132	237	133	67	65	17	14	14
24	105	41	86	79	119	179	110	51	51	279	13	20
25	84	42	72	e80	110	150	162	45	41	161	13	30
26	74	217	63	e75	102	130	242	47	35	78	13	93
27	68	725	61	e74	98	117	1350	43	31	63	13	71
28	62	214	57	e73	159	191	577	302	56	48	30	37
29	59	120	54	e72	132	145	1030	226	175	40	79	26
30	55	86	51	e78	---	106	550	100	203	61	38	21
31	52	---	49	1310	---	98	---	66	---	39	30	---
TOTAL	4069	2634	2431	5050	8616	7425	11253	2847	3143	1524	1061	833
MEAN	131	87.8	78.4	163	297	240	375	91.8	105	49.2	34.2	27.8
MAX	681	725	265	1310	588	2760	2160	302	719	279	137	93
MIN	51	39	44	45	98	55	82	40	24	17	13	11
CFSM	.88	.59	.53	1.09	1.99	1.61	2.52	.62	.70	.33	.23	.19
IN.	1.02	.66	.61	1.26	2.15	1.85	2.81	.71	.78	.38	.26	.21

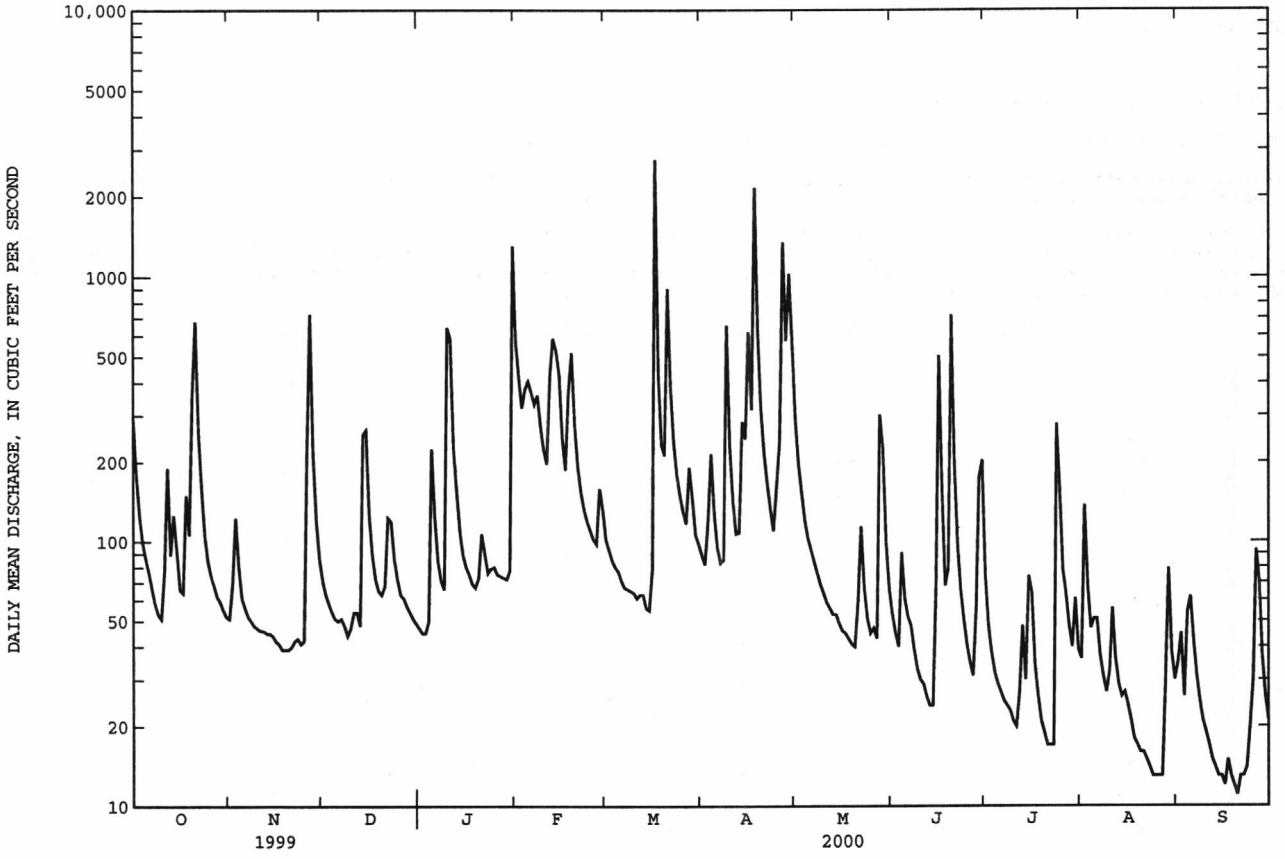
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	65.4	95.4	131	227	275	287	223	113	79.0	85.3	74.5	87.3
MAX	561	489	421	761	758	948	612	573	551	798	431	984
(WY)	1972	1986	1973	1936	1998	1998	1936	1978	1938	1975	1939	1996
MIN	1.24	.71	1.81	4.29	44.4	72.4	31.1	22.2	7.85	4.59	2.93	.71
(WY)	1942	1934	1934	1934	1931	1967	1942	1927	1986	1991	1977	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1925 - 2000	
ANNUAL TOTAL	54161.1		50886			
ANNUAL MEAN	148		139		145	
HIGHEST ANNUAL MEAN					285	1973
LOWEST ANNUAL MEAN					53.5	1981
HIGHEST DAILY MEAN	7350	Sep 16	2760	Mar 17	21800	Sep 6 1996
LOWEST DAILY MEAN	1.3	Aug 3	11	Sep 20	.27	Sep 24 1968
ANNUAL SEVEN-DAY MINIMUM	1.8	Jul 29	13	Sep 14	.28	Sep 24 1968
INSTANTANEOUS PEAK FLOW			6140	Mar 17	33800	Sep 6 1996
INSTANTANEOUS PEAK STAGE			7.81	Mar 17	17.26	Sep 6 1996
INSTANTANEOUS LOW FLOW			11*	Sep 16	.23	Sep 26 1968
ANNUAL RUNOFF (CFSM)	1.00		.93		.97	
ANNUAL RUNOFF (INCHES)	13.52		12.70		13.20	
10 PERCENT EXCEEDS	206		306		282	
50 PERCENT EXCEEDS	54		66		50	
90 PERCENT EXCEEDS	4.2		24		7.1	

e Estimated.
* See REMARKS.

02085500 FLAT RIVER AT BAHAMA, NC--Continued



02085500 FLAT RIVER AT BAHAMA, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	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, NITRATE DIS-SOLVED (MG/L AS N) (00618)
NOV												
02...	1200	60	748	88	8.7	6.8	72	15.1	.23	.26	<.020	--
DEC												
01...	1015	71	758	90	10.6	7.0	95	8.1	--	.43	<.002	.196
JAN												
04...	1345	47	747	100	10.8	7.4	76	11.1	.16	.23	<.020	--
FEB												
16...	1015	252	757	93	11.2	6.4	62	7.2	.21	.48	<.020	--
MAR												
22...	1745	321	761	96	10.6	6.4	57	11.2	.35	.50	<.020	--
APR												
18...	1415	2890	750	94	9.4	6.0	46	14.5	.59	1.2	.027	--
MAY												
16...	1330	45	760	91	8.3	6.8	74	19.9	.24	.24	<.020	--
JUN												
15...	1330	107	751	89	7.1	7.0	88	25.6	.24	.50	.034	--
JUL												
13...	1030	48	754	80	6.7	6.9	84	24.0	.26	.35	.040	--
AUG												
15...	1330	29	754	89	7.3	7.0	86	24.4	.30	.47	.021	--
SEP												
12...	1320	15	751	87	7.3	6.9	84	23.6	.32	.45	.025	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV											
02...	--	.50	.47	.241	<.010	--	E.036	<.010	E.038	19	3.1
DEC											
01...	--	.62	--	.198	.002	--	--	.004	<.050	2	.38
JAN											
04...	--	.50	.43	.269	<.010	--	<.050	<.010	<.050	4	.51
FEB											
16...	--	.80	.53	.324	<.010	--	<.050	<.010	E.044	13	8.8
MAR											
22...	--	.72	.57	.213	<.010	--	<.050	<.010	.059	19	16
APR											
18...	.56	1.4	.74	.152	<.010	1.2	E.045	.022	.213	215	1680
MAY											
16...	--	.46	.46	.226	<.010	--	<.050	<.010	<.050	5	.61
JUN											
15...	.21	.84	.59	.346	<.010	.46	<.050	<.010	.060	19	5.5
JUL											
13...	.22	.62	.53	.269	<.010	.31	<.050	.011	E.046	16	2.1
AUG											
15...	.28	.67	.50	.206	<.010	.44	<.050	.013	.061	14	1.1
SEP											
12...	.30	.59	.46	.140	<.010	.43	<.050	.012	.067	11	.45

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°09'02", long 78°49'49", Durham County, Hydrologic Unit 03020201, at dam 3.0 mi southeast of Bahama.

DRAINAGE AREA.--167 mi^2.

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 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											
21...	1400	753	54	4.9	6.3	51	18.8	16	3.66	1.61	2.0
21...	1401	753	1	.1	6.1	61	16.5	--	--	--	--
21...	1402	753	3	.4	6.6	152	8.7	--	--	--	--
APR											
19...	1430	751	67	6.4	7.5	53	16.6	17	3.92	1.80	1.7
19...	1445	751	49	6.0	3.3	66	6.1	--	--	--	--
19...	1446	751	50	6.0	4.8	61	7.3	--	--	--	--
JUL											
20...	1100	750	112	8.4	8.1	66	29.6	19	4.64	1.92	2.1
20...	1105	750	1	.1	5.6	70	8.8	--	--	--	--
20...	1106	750	3	.3	6.4	173	7.1	--	--	--	--
SEP											
26...	0900	754	65	5.6	6.6	72	22.9	22	5.04	2.19	2.1
26...	0901	754	4	.3	6.1	77	22.4	--	--	--	--
26...	0902	754	3	.3	6.1	86	11.2	--	--	--	--

DATE	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)	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)
OCT											
21...	.3	2.4	22	11	13	3.4	<.1	9.6	<.3	.66	.119
21...	--	--	--	--	--	--	--	--	--	.94	.322
21...	--	--	--	--	--	--	--	--	--	4.3	3.14
APR											
19...	.4	3.5	28	--	--	4.0	<.1	9.7	4.0	.62	.019
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	.4	4.0	28	16	20	4.6	<.1	10.2	3.2	.69	<.002
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	.4	4.5	29	19	23	4.7	<.1	10.3	2.7	.65	.069
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)
OCT											
21...	.82	.152	.022	.55	.004	.057	9.5	160	53	.85	1.3
21...	1.0	.075	.010	.62	.004	.073	--	--	--	--	--
21...	4.4	.008	.006	1.2	--	.392	--	--	--	--	--
APR											
19...	.80	.176	.003	.60	.005	.072	11	120	60	.65	E1.5
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	<.005	<.001	--	.002	<.050	11	55	58	.75	14.5
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	.66	.008	.001	.58	.001	E.036	6.7	20	54	.93	11.3
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, 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											
21...	<.1	210	<3	<.1	<1	<2	2	720	<1	83	<.3
21...	--	--	--	--	--	--	--	880	--	738	--
21...	--	--	--	--	--	--	--	22200	--	3490	--
APR											
19...	<.1	531	6	<.1	213	<2	2	1220	1	112	--
19...	--	--	--	--	--	--	--	2100	--	721	--
19...	--	--	--	--	--	--	--	1070	--	368	--
JUL											
20...	E.2	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	1990	--	675	--
20...	--	--	--	--	--	--	--	34100	--	3660	--
SEP											
26...	<.1	--	--	--	--	--	--	200	--	44	--
26...	--	--	--	--	--	--	--	330	--	199	--
26...	--	--	--	--	--	--	--	4710	--	1390	--

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											
21...	<1	<2	<3	<1	E18	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	<1	E2	<3	<1	<31	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

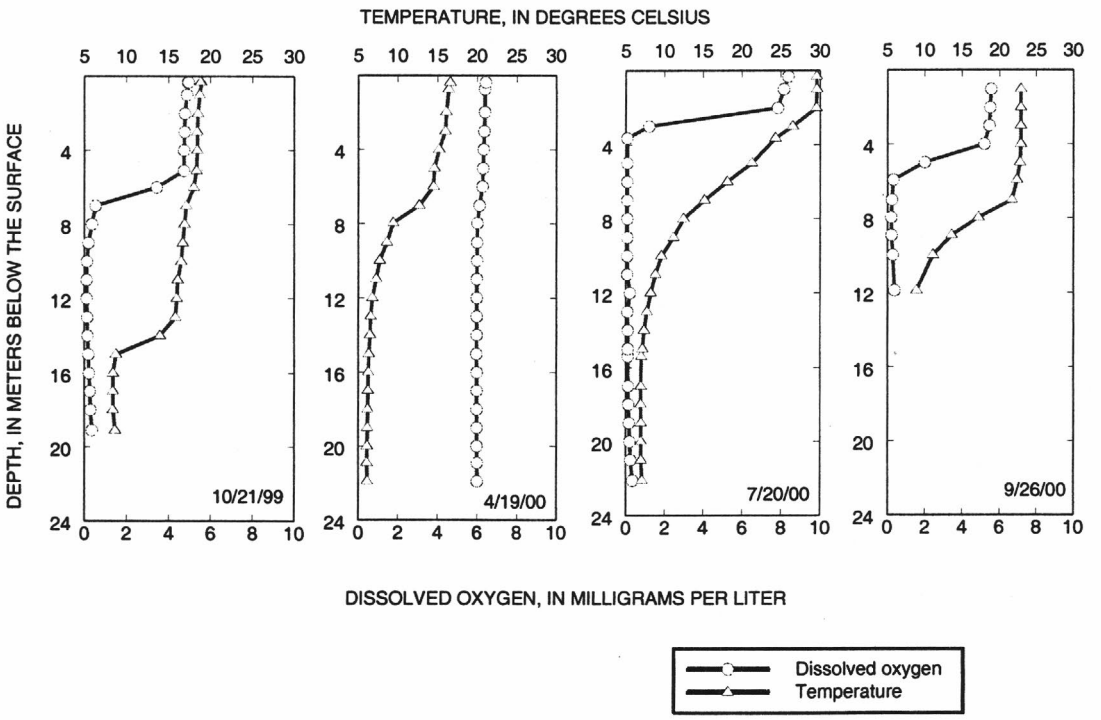
DATE	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE 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											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<3.0	<3.00	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, 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											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	<3.0	<3.0	<3.00	<3.00	<3.00	<3.0	<3.00	<3.00	<3.0	<3.0	<3.0
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

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										
21...	--	--	--	--	--	--	--	--	--	.30
21...	--	--	--	--	--	--	--	--	--	10.0
21...	--	--	--	--	--	--	--	--	--	19.0
APR										
19...	--	--	--	--	--	--	--	--	--	.30
19...	--	--	--	--	--	--	--	--	--	22.0
19...	--	--	--	--	--	--	--	--	--	11.0
JUL										
20...	<3.0	<3.0	<3.00	<3.0	<3.00	<3.00	<3.00	<3.00	<1.0	.30
20...	--	--	--	--	--	--	--	--	--	11.0
20...	--	--	--	--	--	--	--	--	--	22.0
SEP										
26...	--	--	--	--	--	--	--	--	--	1.0
26...	--	--	--	--	--	--	--	--	--	6.0
26...	--	--	--	--	--	--	--	--	--	11.0



0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC

LOCATION.--Lat 36°07'54", long 78°50'00", Durham County, Hydrologic Unit 03020201, on left bank at culvert on Secondary Road 1680, 1.5 mi southeast of Willardville.

DRAINAGE AREA.--1.14 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1988 to September 1990, October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. No flow at times during most years. Maximum discharge for period of record, from rating curve extended above 70 ft^3/s, on basis of computation of flow through culvert with road overflow. Maximum gage height for period of record from floodmarks. Maximum discharge for current water year also occurred on April 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	.71	.40	.24	3.4	.66	.60	.94	.13	.02	.26	.32
2	1.4	.80	.40	.24	2.6	.60	.57	.66	.12	.02	1.7	.26
3	1.1	.46	.37	.27	2.4	.54	.93	.51	.11	.02	.35	.13
4	1.0	.31	.32	.73	3.0	.48	.82	.43	.11	.01	1.1	.11
5	.93	.28	.33	1.3	3.0	.45	.60	.39	.13	.02	1.2	.11
6	.82	.29	.41	.59	2.6	.41	.53	.35	.15	.02	.39	.07
7	.72	.33	.33	.51	2.4	.41	.49	.32	.09	.02	.21	.04
8	.66	.34	.26	.43	2.0	.41	1.2	.29	.08	.01	.15	.03
9	.62	.34	.24	.58	1.5	.40	1.9	.27	.07	.01	.13	.02
10	.71	.37	.45	6.9	1.3	.37	.90	.25	.05	.00	.19	.02
11	.80	.37	.52	3.2	1.1	.38	.64	.22	.03	.00	.12	.02
12	.65	.34	.35	1.6	3.5	.36	.54	.21	.03	.28	.11	.02
13	.61	.34	.31	1.1	3.1	.31	.82	.19	.04	.09	.46	.01
14	.59	.37	4.8	.74	4.2	.31	1.4	.17	.04	.04	.26	.04
15	.52	.36	1.7	.61	2.6	.31	1.9	.22	.08	.09	.16	.06
16	.53	.33	1.0	.61	1.7	.39	3.8	.32	.14	.02	.13	.01
17	.95	.31	.64	.52	1.2	9.3	1.7	.31	.04	.09	.08	.00
18	1.1	.31	.50	.51	3.6	1.5	12	.28	.03	.02	.11	.01
19	.72	.31	.45	.49	3.0	.92	2.7	.25	.07	.02	.09	.03
20	1.0	.33	.48	.72	1.7	2.4	1.5	.24	.11	.06	.07	.02
21	1.4	.36	.46	.69	1.2	5.3	1.0	.24	.10	.02	.05	.05
22	.98	.40	.55	.53	.97	2.0	.79	.63	.06	.03	.04	.12
23	.84	.38	.43	.55	.83	1.3	.64	.18	.04	.09	.03	.20
24	.80	.37	.40	.71	.75	1.0	.55	.15	.03	2.5	.04	.13
25	.73	.37	.34	1.4	.64	.85	.67	.19	.02	.41	.13	.25
26	.72	1.8	.33	1.2	.60	.85	.55	.16	.02	.30	.02	.40
27	.73	1.4	.31	1.1	.78	1.2	2.0	.13	.02	.16	.05	.15
28	.67	.70	.31	e1.0	1.3	2.2	2.4	.31	.11	.10	.45	.12
29	.66	.49	.28	e.90	.80	1.1	2.8	.34	.15	.52	.14	.17
30	.67	.43	.26	e6.9	---	.86	1.8	.18	.04	.52	.16	.23
31	.70	---	.24	6.1	---	.72	---	.15	---	.24	.19	---
TOTAL	26.53	14.30	18.17	42.97	57.77	38.29	48.74	9.48	2.24	5.75	8.57	3.15
MEAN	.86	.48	.59	1.39	1.99	1.24	1.62	.31	.075	.19	.28	.11
MAX	2.2	1.8	4.8	6.9	4.2	9.3	12	.94	.15	2.5	1.7	.40
MIN	.52	.28	.24	.24	.60	.31	.49	.13	.02	.00	.02	.00
CFSM	.75	.42	.51	1.22	1.75	1.08	1.43	.27	.07	.16	.24	.09
IN.	.87	.47	.59	1.40	1.89	1.25	1.59	.31	.07	.19	.28	.10

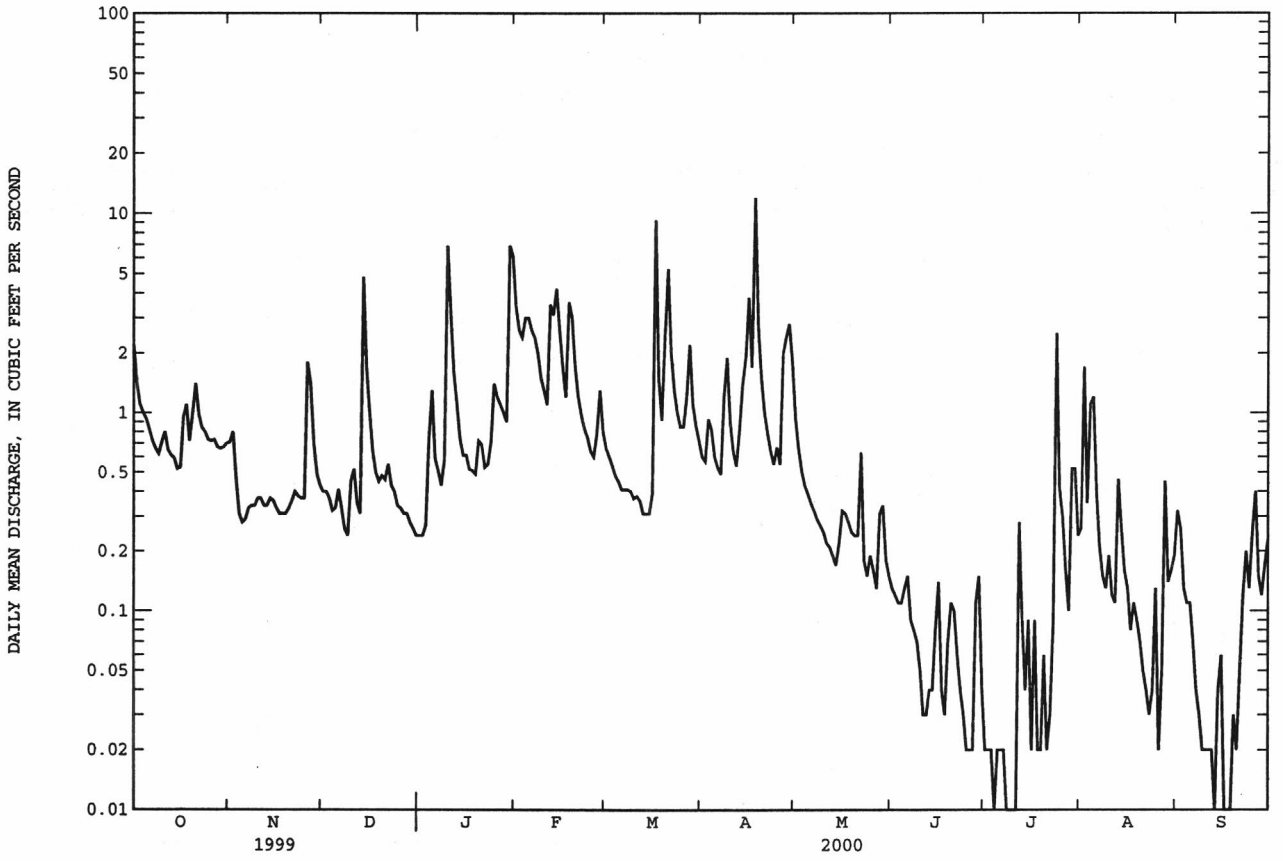
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000@, BY WATER YEAR (WY)

MEAN	.43	.47	.87	2.12	2.53	2.54	1.47	.74	.59	.27	.12	1.76
MAX	1.46	1.27	3.26	3.17	5.41	8.30	2.46	2.20	4.07	1.26	.50	8.60
(WY)	1990	1996	1990	1998	1998	1998	1997	1989	1995	1989	1989	1996
MIN	.009	.079	.014	.47	.56	.45	.064	.20	.052	.003	.001	.000
(WY)	1999	1995	1989	1989	1999	1988	1995	1995	1988	1988	1988	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000@	
ANNUAL TOTAL	463.74		275.96			
ANNUAL MEAN	1.27		.75		1.21	
HIGHEST ANNUAL MEAN					1.58	1996
LOWEST ANNUAL MEAN					.75	2000
HIGHEST DAILY MEAN	85	Sep 28	12	Apr 18	225	Sep 6 1996
LOWEST DAILY MEAN	.00	Jun 10	.00	Jul 10	.00	Jun 22 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 20	.01	Jul 5	.00	Jul 2 1988
INSTANTANEOUS PEAK FLOW			37*	Mar 17	1410*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			3.60	Apr 18	7.77*	Sep 6 1996
INSTANTANEOUS LOW FLOW			.00	Jul 4	.00	Jun 15 1988
ANNUAL RUNOFF (CFSM)	1.11		.66		1.06	
ANNUAL RUNOFF (INCHES)	15.13		9.01		14.37	
10 PERCENT EXCEEDS	1.4		1.7		2.1	
50 PERCENT EXCEEDS	.33		.39		.26	
90 PERCENT EXCEEDS	.00		.04		.00	

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

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued



0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988-91, 1994 to current year

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic chemical data and trace metal data were analyzed by the city of Durham's Brown Water Treatment Plant Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	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, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
NOV												
02...	1045	.66	748	74	7.1	6.3	71	16.0	.18	.24	<.020	--
30...	1500	.45	766	93	11.0	6.9	68	7.9	--	.11	.002	--
JAN												
04...	1130	.27	752	92	9.6	7.0	70	12.7	E.10	.13	<.020	--
FEB												
15...	1100	2.6	759	100	12.0	6.3	47	7.3	<.10	.12	<.020	--
MAR												
21...	1250	4.5	762	96	10.5	6.1	45	11.2	.15	.23	<.020	--
APR												
18...	0745	13	751	93	9.6	5.4	39	13.6	.31	.51	<.020	--
MAY												
15...	1150	.22	762	87	8.5	6.3	72	16.5	.10	.11	<.020	--
JUN												
14...	1055	.04	757	80	7.0	6.7	89	21.7	.13	.17	.036	.10
JUL												
12...	0950	.14	754	80	6.9	6.5	59	22.4	.17	.53	<.020	--
AUG												
14...	1120	.27	757	86	7.9	6.6	68	19.5	.16	.24	.021	.14
SEP												
11...	1150	.03	758	83	7.5	6.8	67	20.4	.13	.19	<.020	--

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	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)	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)
NOV												
02...	--	--	<.050	<.010	--	E.035	.015	<.050	--	--	--	--
30...	.12	--	.006	<.001	.11	--	<.001	<.050	--	--	--	--
JAN												
04...	--	--	<.050	<.010	--	<.050	<.010	<.050	--	--	--	--
FEB												
15...	--	--	<.050	<.010	--	<.050	<.010	<.050	--	--	--	--
MAR												
21...	--	--	<.050	<.010	--	<.050	<.010	<.050	--	--	--	--
APR												
18...	--	--	<.050	<.010	--	E.030	.012	.053	571	<3	<.1	E1
MAY												
15...	.20	.19	.088	<.010	--	<.050	<.010	<.050	67	<3	<.1	<1
JUN												
14...	.35	.31	.180	<.010	.14	<.050	<.010	<.050	--	--	--	--
JUL												
12...	.73	.37	.203	<.010	--	<.050	<.010	.165	--	--	--	--
AUG												
14...	.32	.23	.076	<.010	.22	<.050	<.010	<.050	--	--	--	--
SEP												
11...	.32	.26	.133	<.010	--	<.050	<.010	<.050	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, 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)	2,4,5-T DIS-SOLVED (UG/L) (39742)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<2	2	750	E1	49	<.3	<1	E1	<3	<1	E17	<.04
MAY												
15...	<2	<1	340	<1	30	<.3	<1	<2	<3	<1	<31	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC DIS-SOLVED (UG/L) (34253)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.11	<.10	<.003	<.11	<.002	<.09	.010	<.10	<.02	<.21	<.013	<.002
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	.006	<.002	<.04	<.06	<.04	<.002	<.07	<.003	<.29	<.003	<.1	<.48
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
11...	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

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

DATE	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CLOPYRALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOBENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLORPROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DIELDRIN DISSOLVED (UG/L) (39381)	DIELDRIN TOTAL (UG/L) (39380)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.006	<.23	<.004	<.04	<.002	E.005	<.002	<.04	<.07	<.03	<.001	<.009
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	ENDOSULFAN I TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FENURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUOMETURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	<.06	<.017	<.06	<.42	<.015	<.014	<.002	<.004	<.003	<.07	<.06	<.003
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR, TOTAL (UG/L) (39410)	LINDANE DISSOLVED (UG/L) (39341)	LINDANE TOTAL (UG/L) (39340)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIOCARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METHOMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.009	<.011	<.004	<.012	<.09	<.002	<.005	<.17	<.13	<.03	<.02
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

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

DATE	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	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)	MIREX, TOTAL (UG/L) (39755)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.01	<.001	<.006	.007	<.004	<.01	<.004	<.003	<.07	<.04	<.31
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

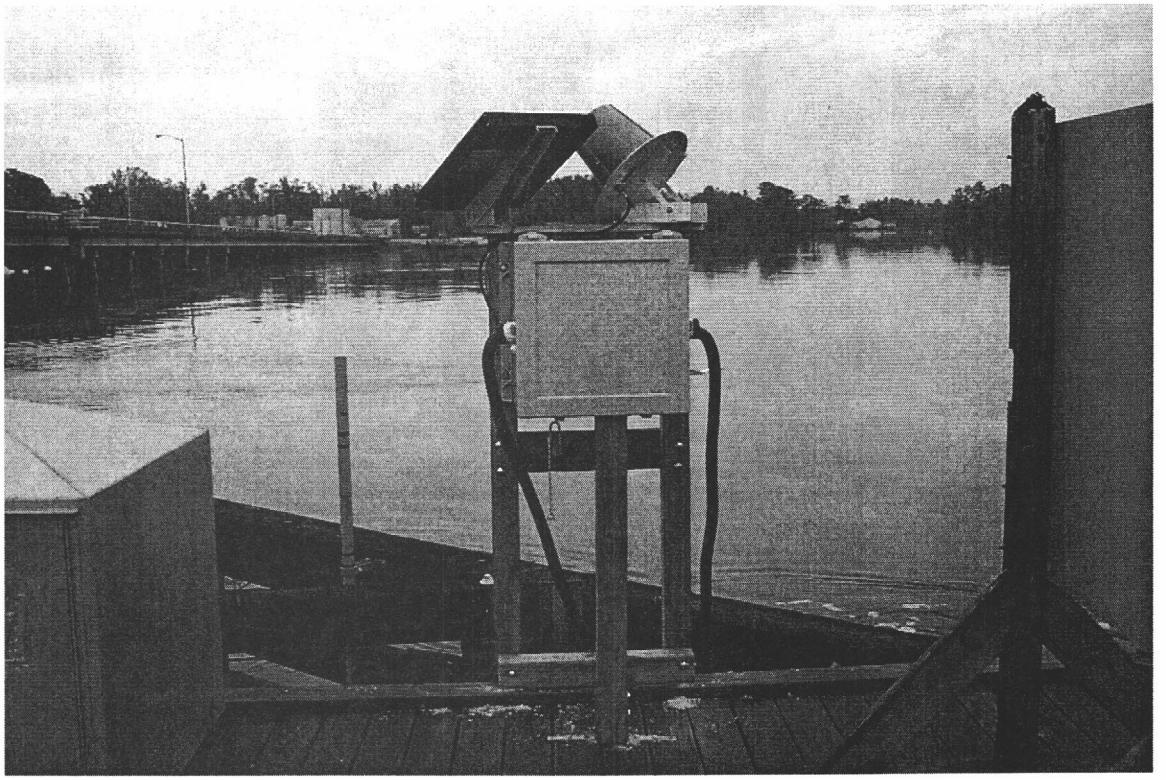
DATE	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	P,P'-DDE, TOTAL (UG/L) (39365)	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PCB, TOTAL (UG/L) (39516)	PCNS UNFILT RECOVER (UG/L) (39250)	PEB-ULATE 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)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.02	<.006	<.014	<.016	<.017	<.004	<.1	<.1	<.004	<.004	<.005
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	PER-THANE TOTAL (UG/L) (39034)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS-SOLVED (UG/L) (39762)
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	<.1	<.002	<.05	<.018	<.003	<.007	<.004	<.013	<.04	<.08	<.06
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

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

DATE	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)	TOX-APHENE, TOTAL (UG/L) (39400)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV											
02...	--	--	--	--	--	--	--	--	--	8	.01
30...	--	--	--	--	--	--	--	--	--	2	.00
JAN											
04...	--	--	--	--	--	--	--	--	--	5	.00
FEB											
15...	--	--	--	--	--	--	--	--	--	6	.04
MAR											
21...	--	--	--	--	--	--	--	--	--	9	.11
APR											
18...	<.008	<.010	<.008	<.013	<.002	<1	<.001	<.25	<.002	46	1.6
MAY											
15...	--	--	--	--	--	--	--	--	--	6	.00
JUN											
14...	--	--	--	--	--	--	--	--	--	3	.00
JUL											
12...	--	--	--	--	--	--	--	--	--	242	.09
AUG											
14...	--	--	--	--	--	--	--	--	--	12	.01
SEP											
11...	--	--	--	--	--	--	--	--	--	3	.00



USGS water-quality monitor at Pamlico River at Washington.

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC

LOCATION.--Lat 35°56'27", long 78°34'57", Wake County, Hydrologic Unit 03020201, on intake tower 50 ft upstream from Falls Lake dam, and 0.3 mi northwest of Falls and 235 mi upstream from mouth.

DRAINAGE AREA.--771 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--February 1979 to current year.

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

REMARKS.--Lake used for flood control, water supply, low-flow agumentation, and recreation. Temporary filling began May 1981 for water supply for city of Raleigh during drought conditions. Gates were closed on Jan. 13, 1983 and normal pool elevation of 250.1 ft was recorded Dec. 7, 1983. Total capacity of reservoir is 4,998,074,000 ft^3 at elevation of 250.1 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 264.34 ft, Oct. 1, 2, 1999; minimum, 242.78 ft, Nov. 26, 1993.

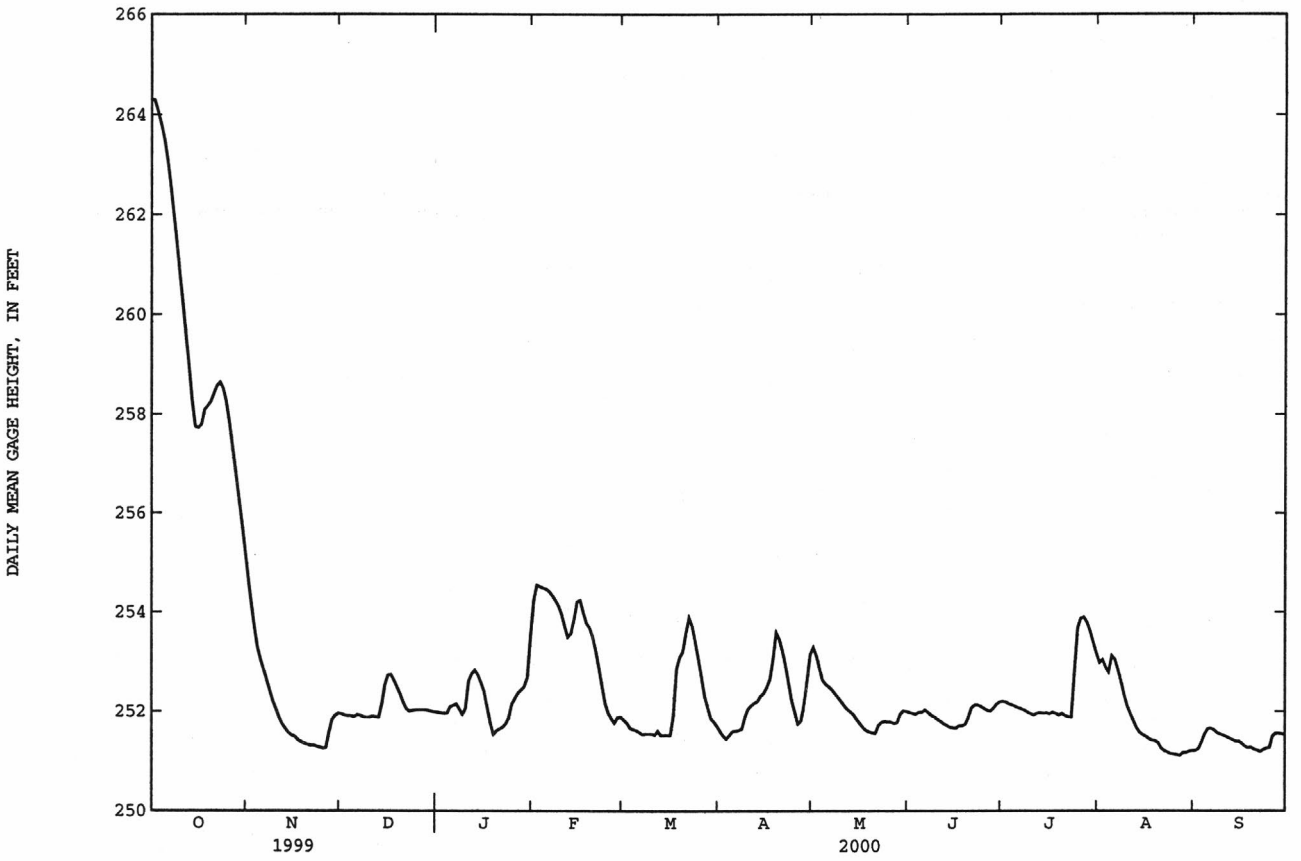
EXTREMES FOR CURRENT YEAR.--Maximum, 264.34 ft, Oct. 1, 2; minimum, 251.08 ft, Aug. 27.

COOPERATION.--Extremes for period of record provided 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	264.31	254.72	251.95	251.98	254.24	251.83	251.60	253.29	251.98	252.20	252.98	251.21
2	264.29	254.19	251.92	251.97	254.55	251.77	251.51	253.12	251.96	252.19	253.04	251.25
3	264.07	253.71	251.91	251.96	254.52	251.67	251.45	252.87	251.94	252.15	252.89	251.38
4	263.83	253.30	251.91	251.96	254.49	251.64	251.52	252.63	251.98	252.13	252.79	251.54
5	263.54	253.04	251.89	252.09	254.47	251.62	251.60	252.55	251.98	252.10	253.12	251.65
6	263.15	252.84	251.93	252.12	254.42	251.58	251.61	252.50	252.03	252.07	253.05	251.66
7	262.65	252.63	251.92	252.15	254.34	251.54	251.62	252.44	251.98	252.05	252.84	251.63
8	262.07	252.41	251.89	252.05	254.24	251.55	251.65	252.36	251.92	252.02	252.60	251.57
9	261.47	252.20	251.88	251.94	254.13	251.55	251.89	252.28	251.89	251.98	252.33	251.54
10	260.84	252.04	251.88	252.06	253.96	251.55	252.05	252.20	251.84	251.95	252.11	251.52
11	260.24	251.87	251.90	252.61	253.72	251.53	252.12	252.11	251.80	251.92	251.95	251.49
12	259.60	251.74	251.89	252.76	253.50	251.61	252.17	252.04	251.75	251.96	251.81	251.46
13	258.97	251.65	251.88	252.83	253.57	251.52	252.20	251.99	251.72	251.97	251.67	251.43
14	258.28	251.57	252.14	252.74	253.85	251.52	252.31	251.93	251.68	251.96	251.58	251.40
15	257.75	251.52	252.53	252.58	254.21	251.52	252.37	251.84	251.67	251.97	251.53	251.40
16	257.72	251.50	252.73	252.40	254.24	251.52	252.49	251.76	251.66	251.95	251.50	251.36
17	257.79	251.43	252.74	252.08	253.99	251.92	252.65	251.68	251.71	251.98	251.45	251.30
18	258.09	251.39	252.62	251.77	253.78	252.85	253.05	251.62	251.71	251.96	251.42	251.27
19	258.16	251.36	252.48	251.54	253.69	253.09	253.59	251.59	251.74	251.92	251.41	251.28
20	258.24	251.34	252.34	251.61	253.50	253.21	253.46	251.57	251.88	251.96	251.37	251.24
21	258.41	251.32	252.17	251.65	253.22	253.57	253.22	251.56	252.07	251.91	251.26	251.22
22	258.57	251.32	252.05	251.68	252.88	253.89	252.93	251.72	252.13	251.89	251.21	251.19
23	258.64	251.30	252.00	251.75	252.53	253.72	252.57	251.78	252.13	251.88	251.18	251.23
24	258.52	251.28	252.02	251.87	252.17	253.41	252.22	251.80	252.10	252.80	251.15	251.26
25	258.24	251.26	252.03	252.15	251.97	253.06	251.98	251.79	252.06	253.68	251.14	251.27
26	257.83	251.27	252.03	252.26	251.86	252.70	251.75	251.79	252.02	253.87	251.13	251.50
27	257.34	251.59	252.03	252.37	251.77	252.31	251.81	251.76	252.00	253.90	251.11	251.56
28	256.84	251.84	252.03	252.43	251.88	252.08	252.15	251.77	252.06	253.79	251.17	251.56
29	256.33	251.92	252.02	252.50	251.89	251.86	252.62	251.94	252.14	253.61	251.17	251.55
30	255.81	251.96	252.00	252.68	---	251.79	253.14	252.01	252.19	253.39	251.20	251.53
31	255.28	---	251.99	253.51	---	251.71	---	252.00	---	253.17	251.21	---
MEAN	259.58	252.05	252.09	252.20	253.50	252.15	252.24	252.07	251.92	252.40	251.82	251.42
MAX	264.31	254.72	252.74	253.51	254.55	253.89	253.59	253.29	252.19	253.90	253.12	251.66
MIN	255.28	251.26	251.88	251.54	251.77	251.52	251.45	251.56	251.66	251.88	251.11	251.19

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC--Continued



02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC--Continued

PRECIPITATION RECORDS

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

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

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

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 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	1.35	.00
2	.00	.34	.00	.00	.00	.00	.00	.00	.00	.00	.09	1.12
3	.06	.00	.00	.00	.00	.00	.02	.00	1.14	.00	.12	.79
4	.00	.00	.00	.17	.00	.00	.01	.00	.02	.00	.79	1.06
5	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.41	.00
6	.00	.00	.47	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.05	.00	.00	.00	.00	.00	.28	.00	.00
8	.00	.00	.00	.01	.00	.00	.35	.00	.00	.00	.00	.00
9	.00	.00	.00	.41	.00	.00	.01	.00	.00	.00	.00	.00
10	.15	.00	.20	.86	.00	.00	.00	.00	.00	.00	.17	.00
11	.15	.00	.00	.00	.00	.29	.00	.00	.00	.00	.24	.00
12	.00	.00	.00	.00	.71	.00	.00	.00	.00	.91	.00	.00
13	.02	.00	.03	.00	.00	.00	.36	.00	.00	.07	.11	.00
14	.00	.00	1.38	.00	.17	.00	.13	.00	.28	.00	.00	.01
15	.00	.00	.00	.00	.00	.00	.20	.00	.00	.83	.00	.00
16	.00	.00	.00	.00	.00	.46	.00	.00	.01	.00	.00	.00
17	1.52	.00	.00	.00	.00	.02	.68	.02	.00	.68	.00	.00
18	.00	.00	.00	.00	.41	.00	.23	.00	.00	.00	.00	.20
19	.00	.00	.14	.11	.01	.00	.00	.00	.21	.00	.00	.13
20	.01	.00	.03	.33	.00	.60	.00	.17	.00	.01	.00	.00
21	.00	.00	.13	.00	.00	.00	.00	.39	.00	.04	.00	.01
22	.00	.02	.02	.00	.00	.00	.00	.60	.00	.00	.00	.11
23	.00	.00	.00	.31	.00	.00	.00	.00	.00	.69	.00	.58
24	.00	.00	.00	.17	.00	.00	.14	.00	.00	1.31	.00	.00
25	.00	.01	.00	.00	.00	.02	.14	.02	.00	.25	.00	1.42
26	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
27	.00	.00	.00	.00	.27	.38	.30	.03	.00	.00	.32	.00
28	.00	.00	.00	.00	.02	.00	.49	.36	.82	.00	.07	.00
29	.00	.00	.00	.02	.00	.00	.28	.01	.17	.91	.00	.00
30	.00	.00	.00	.01	---	.03	.00	.00	.00	.02	.35	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.18	.02	---
TOTAL	1.91	0.87	2.40	2.45	1.60	1.80	3.34	1.60	2.71	6.18	4.04	5.44



USGS hydrographer making a wading discharge measurement.

02087183 NEUSE RIVER NEAR FALLS, NC

LOCATION.--Lat 35°56'25", long 78°34'56", Wake County, Hydrologic Unit 03020201, on right bank 300 ft downstream of Falls Lake Dam, and 0.3 mi northwest of Falls.

DRAINAGE AREA.--771 mi^2.

PERIOD OF RECORD.--July 1970 to current year.

REVISED RECORDS.--WDR NC-91-1: Drainage area. WRD NC 96-1: 1991-95 (M).

GAGE.--Water-stage recorder. Datum of gage is 194.69 ft above sea level. Prior to Oct. 1, 1990, water-stage recorder at site 0.4 mi downstream at 182.62 ft. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Falls Lake (station 02087182). June 5, 1980, to May 6, 1981, flows affected by incidental storage in Falls Lake, under construction; May 6, 1981, to Jan. 13, 1983, gates closed and Falls Lake partially filled to provide storage for City of Raleigh water supply; Jan. 13, 1983, gates closed and normal pool elevation, 250.1 ft, reached Dec. 7, 1983. The City of Raleigh diverted an average of 85.6 ft^3/s, 1.2 mi upstream from station for municipal water supply, most of which was returned downstream as treated effluent. Prior to regulation, maximum discharge: 13,600 ft^3/s, July 17, 1975; gage height: 25.21 ft; minimum discharge: 4.6 ft^3/s, Sept. 24, 1980; gage height: 2.13 ft, at site then in use. Maximum gage-height and discharge for period of record may have been higher during period of estimated record, Aug. 27-Sept. 30, 1996. Minimum discharge for period of record not determined due to intermittent gate closure at dam. Minimum discharge for current water also occurred on Aug. 20, due to gate closure.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1945 reached a stage of 216.1 ft; discharge, 23,300 ft^3/s at bridge 0.4 mi upstream, from information provided by the U.S. Army Corps of Engineers.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	3740	184	211	178	944	820	1210	165	129	1880	143
2	2330	3750	183	211	1100	964	814	2030	166	130	1890	144
3	3300	3230	183	209	2010	635	426	2000	165	128	1870	144
4	3290	2330	185	209	2010	477	170	1320	164	127	1800	127
5	3740	1460	185	206	1990	476	169	543	164	128	1600	131
6	4360	1310	185	191	1990	474	168	551	165	129	1610	133
7	5450	1300	184	641	2060	312	178	561	164	131	1610	357
8	6130	1300	185	911	2040	223	185	544	165	131	1590	291
9	6200	1140	186	911	2040	225	183	526	166	131	1610	145
10	6230	975	187	914	2200	225	183	529	164	130	1390	147
11	6220	962	186	920	2490	226	185	505	165	129	835	148
12	6200	688	186	921	2480	227	185	409	165	129	839	148
13	6210	521	186	920	1840	201	185	363	149	130	839	149
14	6270	518	188	922	502	159	579	359	127	130	509	139
15	e3800	304	187	1160	500	159	1010	357	129	130	183	137
16	e900	182	187	1770	1960	159	1010	334	127	130	162	137
17	e190	181	740	1960	2630	161	1030	287	131	131	162	137
18	e210	180	1180	1900	2690	161	1030	214	132	129	163	138
19	e206	181	1180	1060	2750	162	1760	153	133	129	95	139
20	209	182	1160	172	2740	163	2540	153	133	130	389	139
21	210	180	1180	171	2740	163	2500	153	131	129	336	139
22	211	179	854	172	2730	1120	2510	155	131	130	128	140
23	651	180	507	172	2710	2550	2480	154	130	127	128	141
24	1660	183	214	172	2300	2740	2080	155	130	117	129	142
25	2570	184	214	175	1190	2700	1940	156	131	122	130	141
26	3380	183	212	173	962	2660	1560	156	131	127	130	141
27	3680	186	212	173	959	2520	969	153	129	350	130	139
28	3680	185	212	173	951	2280	609	152	128	1200	131	137
29	3680	185	212	174	949	1290	331	153	128	1800	135	137
30	3690	185	213	176	---	829	328	159	129	1800	138	141
31	3720	---	211	177	---	824	---	163	---	1830	141	---
TOTAL	99737	26264	11468	18227	53691	26409	28117	14657	4337	10323	22682	4571
MEAN	3217	875	370	588	1851	852	937	473	145	333	732	152
MAX	6270	3750	1180	1960	2750	2740	2540	2030	166	1830	1890	357
MIN	190	179	183	171	178	159	168	152	127	117	95	127
†	-2460	-699	6	434	-490	-34	348	-278	48	191	-397	69

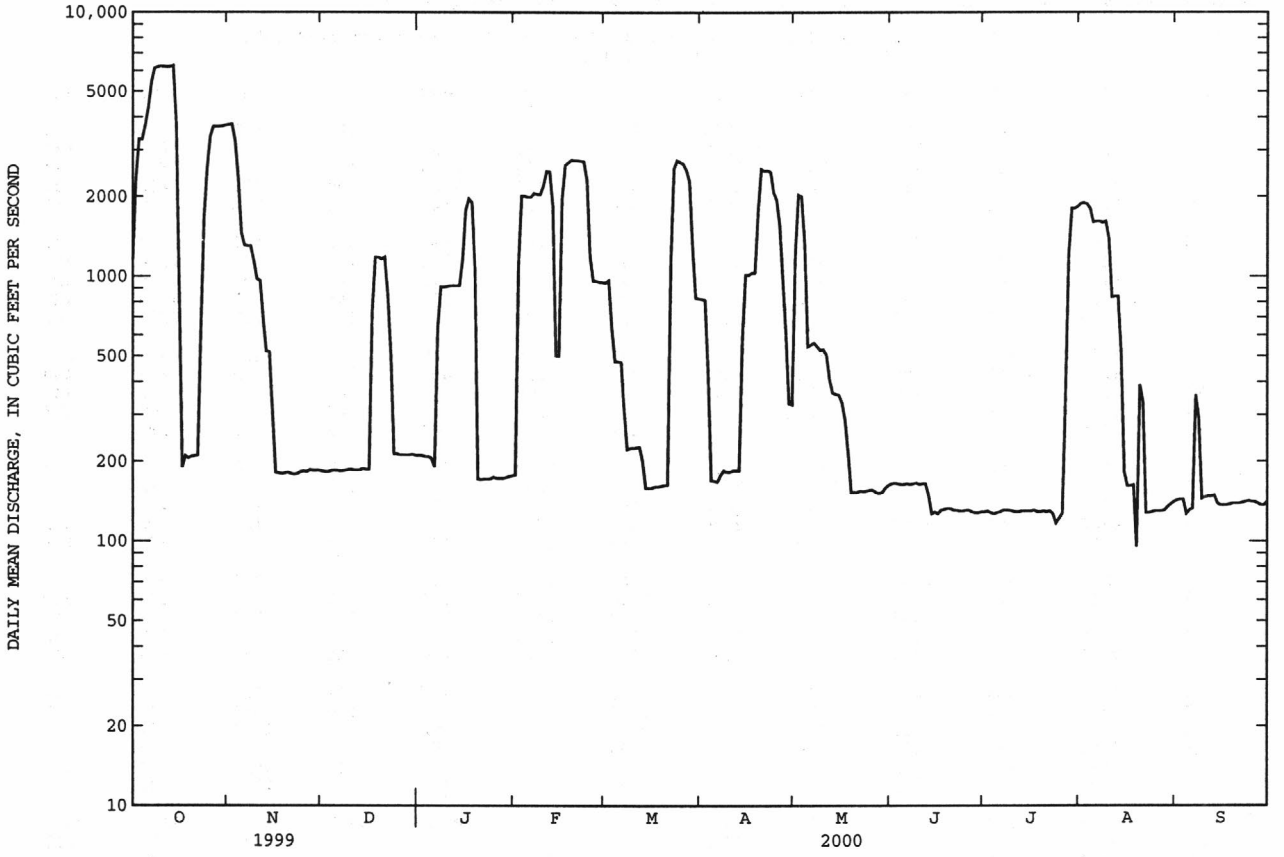
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000*, BY WATER YEAR (WY)

MEAN	456	365	516	897	1329	1721	1150	549	296	320	291	444
MAX	3217	1535	1818	2014	3462	3992	2586	1821	735	1501	1099	3953
(WY)	2000	1996	1986	1984	1998	1989	1984	1989	1984	1995	1989	1996
MIN	72.6	65.2	63.3	102	287	233	118	110	126	61.7	61.0	67.8
(WY)	1984	1984	1992	1994	1991	1988	1995	1995	1987	1983	1983	1985

02087183 NEUSE RIVER NEAR FALLS, NC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000*	
ANNUAL TOTAL	290057		320483			
ANNUAL MEAN	795		876	‡587	691	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1161	1984
LOWEST ANNUAL MEAN					205	1988
HIGHEST DAILY MEAN	6270	Oct 14	6270	Oct 14	7420	Sep 16 1996
LOWEST DAILY MEAN	66	Jan 1	95	Aug 19	55	Jan 10 1995
ANNUAL SEVEN-DAY MINIMUM	69	Jan 1	126	Jul 20	56	Jan 10 1995
INSTANTANEOUS PEAK FLOW			6370	Oct 14	7650*	Sep 16 1996
INSTANTANEOUS PEAK STAGE			5.98	Oct 14	8.05*	Sep 16 1996
INSTANTANEOUS LOW FLOW			4.5*	Aug 19	NOT DETERMINED	
10 PERCENT EXCEEDS	2820		2510		2350	
50 PERCENT EXCEEDS	204		210		181	
90 PERCENT EXCEEDS	145		130		87	

e Estimated.
† Change in contents, equivalent in cubic feet per second, in Falls Reservoir provided by U.S. Army Corps of Engineers.
* Regulated period only (1983-2000). See REMARKS.
‡ Adjusted for change in contents.



0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC

LOCATION.--Lat 35°50'43", long 78°43'29", Wake County, Hydrologic Unit 03020201, on downstream side of bridge on Secondary Road 1649, 0.1 mi upstream from Sycamore Creek, and 6.6 mi northwest of Raleigh.

DRAINAGE AREA.--76 mi^2.

PERIOD OF RECORD.--December 1987 to September 1992, May 1997 to current year. December 1987 to September 1992, published as "Crabtree Creek at Secondary Road 1649 near Raleigh, NC".

GAGE.--Water-stage recorder. Datum of gage is 225.00 ft above sea level, from levels. Satellite telemetry at station.

REMARKS.--Records good except for the period Apr. 15 to May 30, which are fair, and for estimated daily discharges, which are poor. Flow regulated by flood-control dams upstream. Minimum discharge for current water year and period of record 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	797	19	31	18	570	90	41	147	10	11	280	139
2	476	46	26	17	403	71	35	100	10	10	1120	85
3	326	50	21	17	296	57	33	72	15	9.7	442	173
4	212	32	18	23	289	50	31	55	45	8.7	477	170
5	126	26	17	49	287	45	27	44	42	11	551	273
6	82	23	27	38	234	41	24	36	32	10	281	149
7	58	20	33	35	184	37	22	31	23	9.3	146	92
8	45	19	23	32	142	34	31	26	18	8.7	88	63
9	36	16	20	38	115	31	76	23	15	8.9	60	47
10	32	16	20	618	97	28	54	23	12	9.6	51	36
11	41	16	25	575	83	27	44	22	10	8.9	44	30
12	38	14	22	312	172	34	37	18	9.7	8.6	35	24
13	32	14	20	187	323	26	37	15	8.9	12	28	20
14	30	14	581	143	304	24	50	13	9.1	8.6	24	41
15	25	16	372	100	260	23	88	11	12	75	20	35
16	22	14	205	76	176	29	113	10	11	49	18	26
17	131	12	125	59	122	52	105	10	9.5	35	15	20
18	376	10	87	51	175	37	447	10	8.5	26	14	20
19	217	10	68	46	206	31	186	11	14	21	14	27
20	165	11	63	60	163	46	119	10	32	16	13	26
21	215	11	58	85	124	112	84	13	23	14	12	22
22	140	14	57	77	93	77	60	45	18	13	11	17
23	98	14	51	80	74	61	47	25	17	11	11	59
24	69	14	44	109	61	52	39	18	13	366	11	60
25	52	13	36	172	54	44	45	16	10	168	11	e175
26	42	47	31	184	47	41	52	13	10	125	9.8	e445
27	35	90	28	165	45	49	80	11	9.5	82	37	e200
28	29	63	25	e140	115	115	117	11	12	56	40	e120
29	25	50	23	115	114	80	242	17	25	559	37	e82
30	23	40	21	260	---	59	248	13	15	242	56	e58
31	21	---	20	710	---	49	---	11	---	132	99	---
TOTAL	4016	754	2198	4591	5328	1552	2614	880	499.2	2125.0	4055.8	2734
MEAN	130	25.1	70.9	148	184	50.1	87.1	28.4	16.6	68.5	131	91.1
MAX	797	90	581	710	570	115	447	147	45	559	1120	445
MIN	21	10	17	17	45	23	22	10	8.5	8.6	9.8	17
CFSM	1.70	.33	.93	1.95	2.42	.66	1.15	.37	.22	.90	1.72	1.20
IN.	1.97	.37	1.08	2.25	2.61	.76	1.28	.43	.24	1.04	1.99	1.34

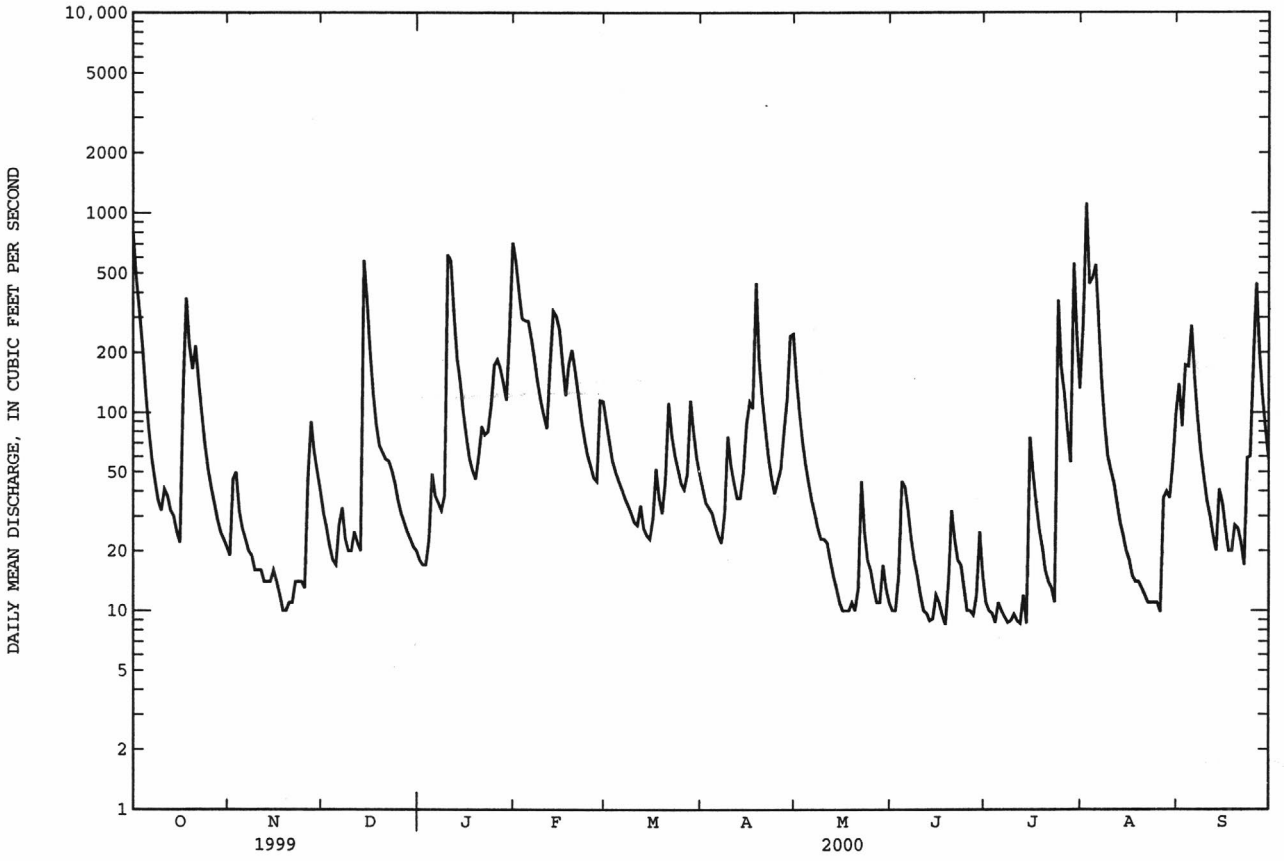
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	61.9	53.3	54.3	145	141	161	77.9	56.4	41.1	51.6	52.6	107
MAX	130	104	143	370	364	393	143	144	104	113	131	743
(WY)	2000	1990	1990	1998	1998	1998	1989	1989	1992	1997	2000	1999
MIN	13.6	23.8	14.4	43.1	16.2	25.0	32.5	15.7	9.34	9.15	6.74	5.35
(WY)	1992	1992	1991	1989	1991	1988	1992	1992	1999	1988	1990	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	46283.7		31347.0			
ANNUAL MEAN	127		85.6		90.1	
HIGHEST ANNUAL MEAN					129	1998
LOWEST ANNUAL MEAN					46.6	1992
HIGHEST DAILY MEAN	3250	Sep 16	1120	Aug 2	3250	Sep 16 1999
LOWEST DAILY MEAN	6.4	Aug 1	8.5	Jun 18	2.1	Dec 18 1990
ANNUAL SEVEN-DAY MINIMUM	6.8	Jul 30	9.1	Jul 6	2.6	Dec 12 1990
INSTANTANEOUS PEAK FLOW			1990	Aug 2	4720	Sep 16 1999
INSTANTANEOUS PEAK STAGE			12.44	Aug 2	19.78	Sep 16 1999
INSTANTANEOUS LOW FLOW			5.4	Jun 18	1.5	Oct 12 1997
ANNUAL RUNOFF (CFSM)	1.67		1.13		1.19	
ANNUAL RUNOFF (INCHES)	22.65		15.34		16.11	
10 PERCENT EXCEEDS	271		213		182	
50 PERCENT EXCEEDS	31		37		31	
90 PERCENT EXCEEDS	8.9		11		8.2	

e Estimated.

0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC--Continued



02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC

LOCATION.--Lat 35°50'15", long 78°40'26", Wake County, Hydrologic Unit 030200201, on left bank at upstream side of bridge on U.S. Highway 70, 0.6 mi upstream from Mine Creek, 4.4 mi northwest of Raleigh.

DRAINAGE AREA.--97.6 mi^2.

PERIOD OF RECORD.--June 1997 to current year. Unpublished records of gage height for water years 1988 to 1997 are available in the files of U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 203.72 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 27.69 ft, discharge, about 11,700 ft^3/s.

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

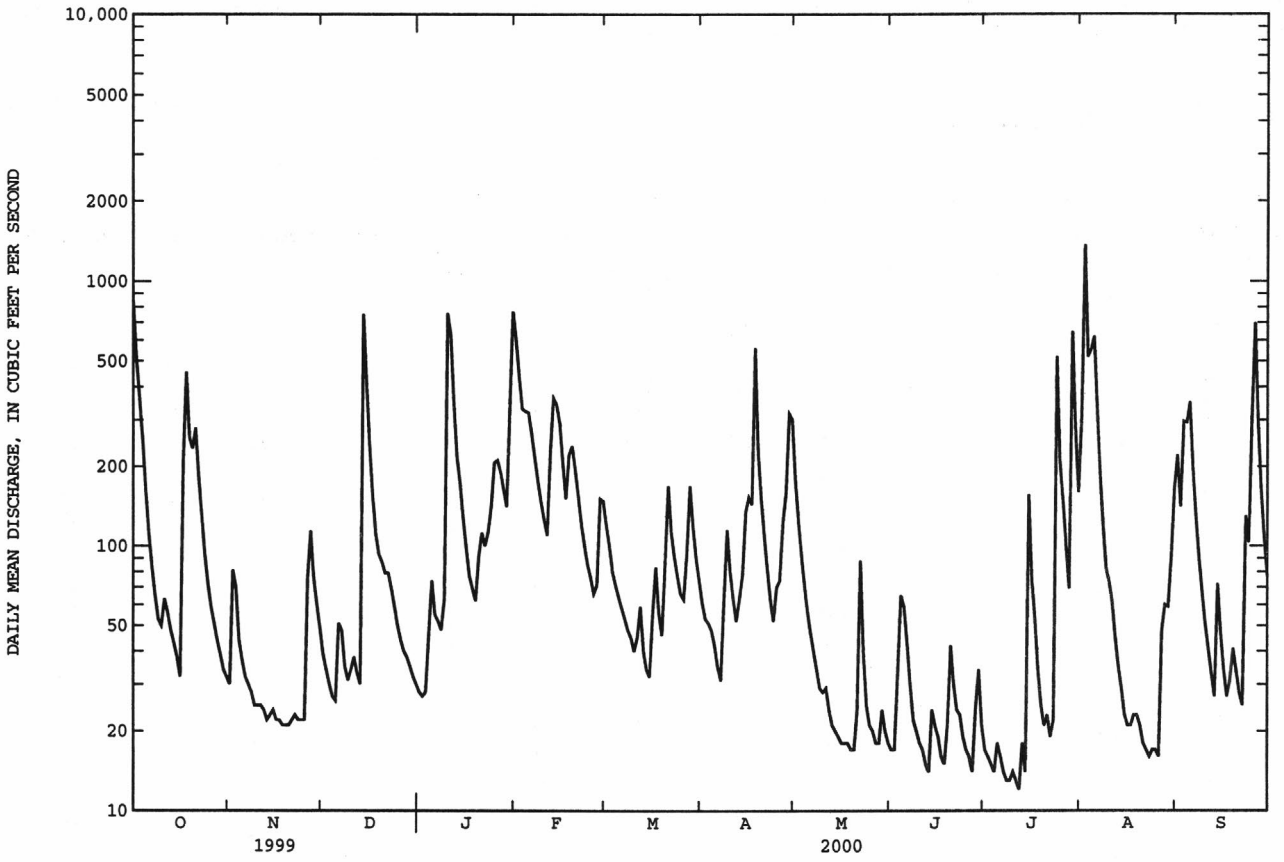
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	849	30	39	28	602	120	61	177	17	17	312	221
2	516	81	34	27	435	100	53	125	17	16	1370	141
3	364	70	30	28	331	80	51	94	33	15	520	297
4	252	44	27	46	324	71	48	72	65	14	555	294
5	161	37	26	74	320	64	42	57	59	18	621	351
6	111	32	51	55	265	58	35	47	43	16	327	195
7	83	30	48	52	216	53	31	40	30	14	187	128
8	65	28	35	48	176	48	62	34	22	13	120	90
9	53	25	31	63	147	45	115	29	20	13	82	67
10	50	25	34	759	126	40	80	28	18	14	73	51
11	63	25	38	630	110	45	63	29	17	13	61	41
12	56	24	33	349	229	59	52	24	15	12	45	33
13	48	22	30	218	363	40	63	21	14	18	35	27
14	43	23	752	173	344	34	78	20	24	14	29	72
15	38	24	419	127	292	32	135	19	21	156	23	47
16	32	22	238	98	206	54	153	18	19	75	21	34
17	211	22	154	77	151	83	144	18	16	53	21	27
18	455	21	111	69	222	56	561	18	15	34	23	31
19	257	21	93	62	239	46	229	17	21	25	23	41
20	234	21	87	91	194	86	151	17	42	21	21	34
21	279	22	79	112	153	169	110	24	30	23	18	28
22	180	23	79	100	120	113	82	88	24	19	17	25
23	129	22	69	113	100	91	63	40	23	22	16	130
24	93	22	59	142	85	77	52	25	19	520	17	103
25	72	22	50	207	76	66	70	21	17	210	17	310
26	59	75	44	211	66	63	74	20	16	150	16	697
27	51	114	40	191	71	94	123	18	14	101	48	290
28	44	76	38	164	151	169	159	18	24	69	60	163
29	39	60	35	141	148	118	317	24	34	647	59	107
30	34	49	32	334	---	90	301	20	21	278	91	77
31	32	---	30	769	---	74	---	18	---	160	166	---
TOTAL	4953	1112	2865	5558	6262	2338	3558	1220	750	2770	4994	4152
MEAN	160	37.1	92.4	179	216	75.4	119	39.4	25.0	89.4	161	138
MAX	849	114	752	769	602	169	561	177	65	647	1370	697
MIN	32	21	26	27	66	32	31	17	14	12	16	25
CFSM	1.64	.38	.95	1.84	2.21	.77	1.22	.40	.26	.92	1.65	1.42
IN.	1.89	.42	1.09	2.12	2.39	.89	1.36	.47	.29	1.06	1.90	1.58

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

MEAN	83.2	52.3	83.7	287	238	219	96.2	50.6	37.5	83.4	76.2	288
MAX	160	80.8	92.4	422	412	429	119	73.1	59.6	166	161	939
(WY)	2000	1998	2000	1998	1998	1998	2000	1998	1997	1997	2000	1999
MIN	44.1	37.1	78.1	179	87.8	75.4	74.4	39.3	13.1	26.0	23.7	23.3
(WY)	1998	2000	1999	2000	1999	2000	1999	1999	1999	1999	1997	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	58212.0		40532			
ANNUAL MEAN	159		111		138	
HIGHEST ANNUAL MEAN					155	1998
LOWEST ANNUAL MEAN					111	2000
HIGHEST DAILY MEAN	5030	Sep 16	1370	Aug 2	5030	Sep 16 1999
LOWEST DAILY MEAN	7.4	Aug 7	12	Jul 12	7.4	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	9.1	Aug 2	14	Jul 6	8.2	Oct 8 1997
INSTANTANEOUS PEAK FLOW			2450	Aug 2	7080	Sep 16 1999
INSTANTANEOUS PEAK STAGE			13.35	Aug 2	21.50	Sep 16 1999
INSTANTANEOUS LOW FLOW			8.3	Jul 12	3.8	Aug 9 1999
ANNUAL RUNOFF (CFSM)	1.63		1.13		1.42	
ANNUAL RUNOFF (INCHES)	22.19		15.45		19.23	
10 PERCENT EXCEEDS	309		282		259	
50 PERCENT EXCEEDS	48		56		50	
90 PERCENT EXCEEDS	12		18		14	

02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC--Continued



0208731190 CRABTREE CREEK AT ANDERSON DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°49'16", long 78°37'34", Wake County, Hydrologic Unit 03020201, on the downstream side of Anderson Drive bridge and 2.3 mi north of Raleigh.

DRAINAGE AREA.--111 mi^2.

PERIOD OF RECORD.--May 1990 to May 1991, October 1991 to April 1993, June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 187.29 ft above sea level. Satellite and telephone telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1996 reached a stage of 23.1 ft from flood marks.

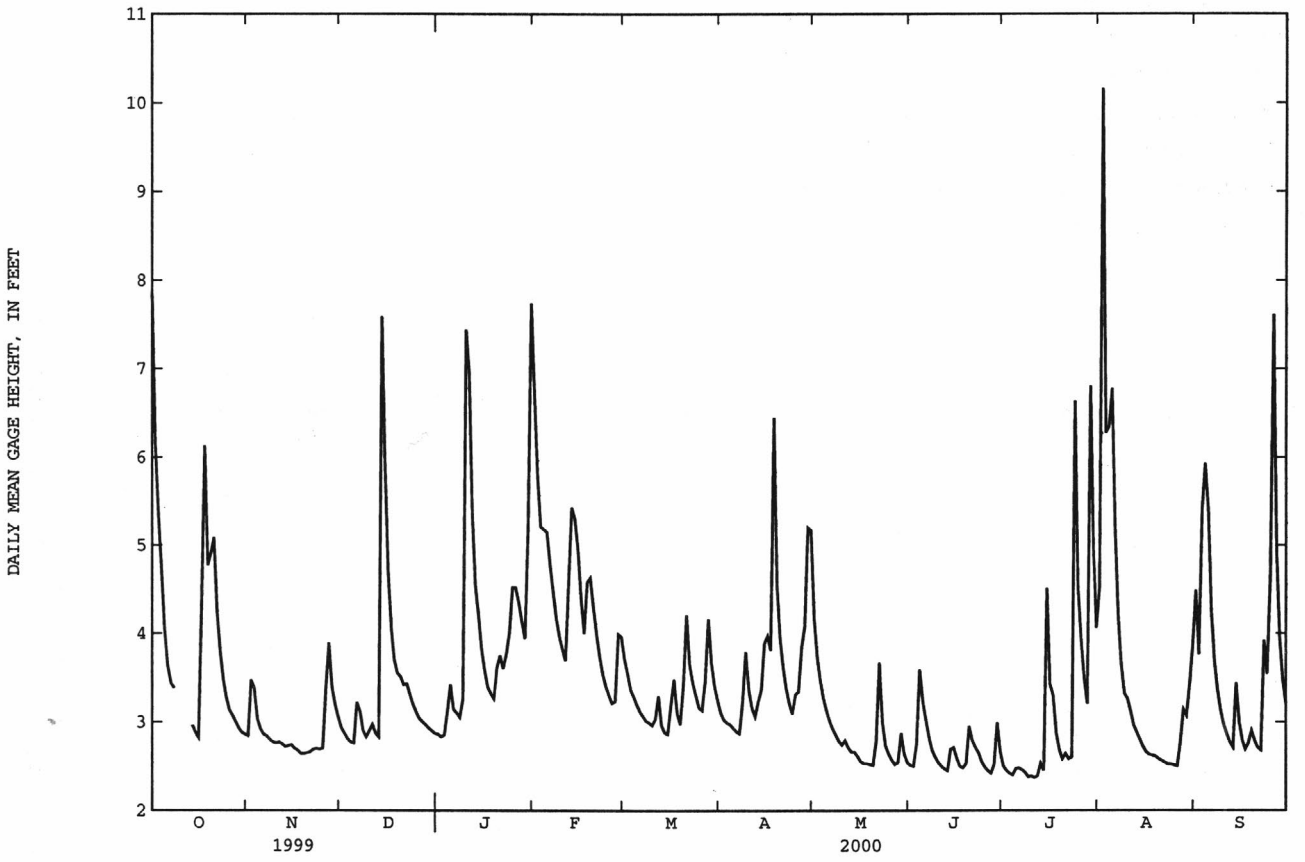
EXTREMES FOR PERIOD OF RECORD.--Maximum, 21.04 ft, Sep. 16, 1999; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum, 13.04 ft, Aug. 2; minimum, 2.32 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	7.85	2.84	2.93	2.86	6.75	3.71	3.10	4.18	2.51	2.50	4.52	4.49
2	6.17	3.47	2.87	2.83	5.80	3.54	3.02	3.74	2.50	2.45	10.16	3.76
3	5.34	3.38	2.81	2.85	5.21	3.36	2.99	3.47	2.75	2.42	6.28	5.41
4	4.69	3.03	2.77	3.11	5.18	3.28	2.97	3.27	3.59	2.40	6.35	5.93
5	4.05	2.92	2.76	3.42	5.15	3.19	2.93	3.13	3.24	2.47	6.78	5.41
6	3.63	2.86	3.22	3.14	4.80	3.11	2.89	3.01	3.02	2.48	5.17	4.26
7	3.44	2.84	3.12	3.10	4.48	3.06	2.87	2.92	2.83	2.46	4.21	3.70
8	3.38	2.80	2.90	3.05	4.18	3.01	3.23	2.85	2.68	2.43	3.65	3.36
9	---	2.77	2.83	3.26	3.97	2.99	3.79	2.78	2.60	2.38	3.32	3.13
10	---	2.76	2.90	7.44	3.82	2.96	3.36	2.74	2.54	2.39	3.26	2.97
11	---	2.77	2.97	6.97	3.69	3.03	3.16	2.79	2.50	2.37	3.12	2.86
12	---	2.75	2.87	5.35	4.58	3.29	3.06	2.71	2.47	2.39	2.96	2.77
13	---	2.72	2.83	4.54	5.43	2.96	3.23	2.66	2.45	2.53	2.88	2.71
14	2.96	2.73	7.59	4.20	5.30	2.88	3.36	2.66	2.69	2.45	2.80	3.44
15	2.88	2.74	5.93	3.82	4.95	2.86	3.89	2.61	2.71	4.51	2.72	2.99
16	2.82	2.70	4.71	3.58	4.40	3.18	3.97	2.55	2.59	3.42	2.66	2.79
17	4.35	2.68	4.07	3.39	4.00	3.48	3.81	2.53	2.50	3.30	2.63	2.69
18	6.13	2.64	3.70	3.32	4.58	3.10	6.45	2.53	2.48	2.88	2.62	2.76
19	4.77	2.64	3.55	3.26	4.63	2.97	4.55	2.52	2.53	2.69	2.61	2.90
20	4.91	2.65	3.51	3.61	4.29	3.41	3.95	2.51	2.95	2.58	2.58	2.79
21	5.09	2.66	3.42	3.75	3.99	4.21	3.62	2.78	2.79	2.64	2.56	2.71
22	4.24	2.69	3.43	3.60	3.74	3.65	3.38	3.67	2.71	2.58	2.54	2.68
23	3.80	2.70	3.31	3.76	3.54	3.44	3.21	3.00	2.65	2.60	2.52	3.92
24	3.48	2.69	3.20	4.00	3.40	3.30	3.09	2.73	2.55	6.64	2.52	3.54
25	3.27	2.70	3.11	4.52	3.30	3.16	3.31	2.64	2.49	4.54	2.51	4.64
26	3.13	3.36	3.04	4.52	3.21	3.13	3.34	2.57	2.45	3.95	2.50	7.61
27	3.07	3.89	3.00	4.35	3.23	3.46	3.84	2.52	2.42	3.50	2.77	4.95
28	3.00	3.39	2.97	4.13	3.99	4.16	4.08	2.54	2.52	3.20	3.14	3.95
29	2.93	3.19	2.93	3.94	3.96	3.66	5.20	2.87	2.99	6.81	3.07	3.48
30	2.88	3.05	2.90	5.24	---	3.40	5.17	2.64	2.66	4.96	3.43	3.21
31	2.86	---	2.87	7.74	---	3.24	---	2.54	---	4.06	3.86	---
MEAN	---	2.90	3.39	4.09	4.40	3.30	3.63	2.86	2.68	3.19	3.64	3.73
MAX	---	3.89	7.59	7.74	6.75	4.21	6.45	4.18	3.59	6.81	10.16	7.61
MIN	---	2.64	2.76	2.83	3.21	2.86	2.87	2.51	2.42	2.37	2.50	2.68

0208731190 CRABTREE CREEK AT ANDERSON DRIVE AT RALEIGH, NC--Continued



02087322 CRABTREE CREEK AT OLD WAKE FOREST ROAD AT RALEIGH, NC

LOCATION.--Lat 35°48'57", long 78°37'33", Wake County, Hydrologic Unit 030200201, on right bank on upstream side of bridge at Old Wake Forest Road, 2.8 mi northeast of Raleigh.

DRAINAGE AREA.--119 mi^2.

PERIOD OF RECORD.--February 1988 to September 1989, discharge records, October 1989 to October 1991, discharge measurements and unpublished, fragmentary gage-height and discharge records, June 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 186.51 ft above sea level. Satellite and telephone telemetry at site.

EXTREMES FOR PERIOD OF RECORD.-- Maximum, 19.93 ft, Sept. 16, 1999; minimum, 1.25 ft, Aug. 2-5, 1999.

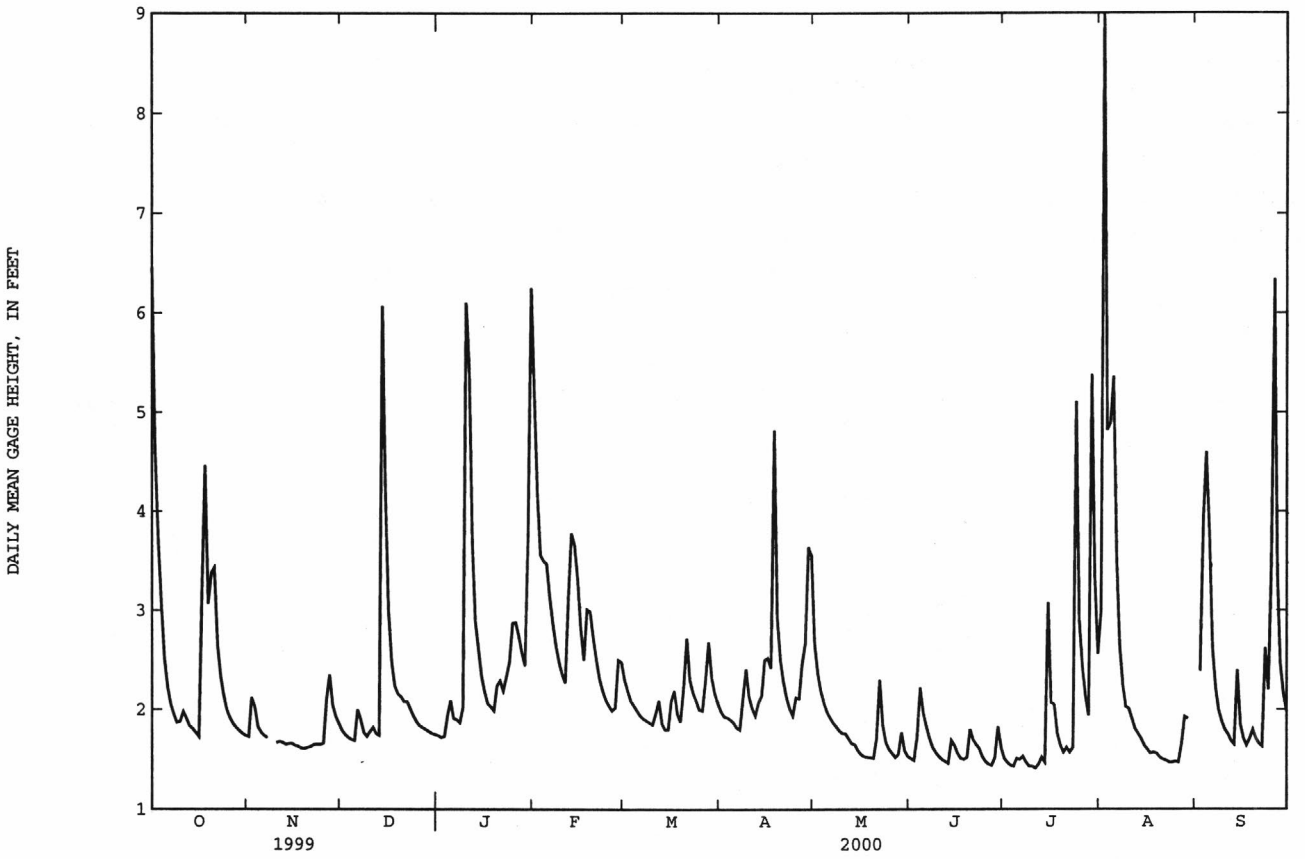
EXTREME OUTSIDE PERIOD OF RECORD.--Flood of Sept. 1996 reached a stage of 21.6 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum, 11.85 ft, Aug. 2; minimum, 1.37 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	6.46	1.73	1.79	1.74	5.21	2.30	1.98	2.66	1.51	1.51	2.98	---
2	4.61	2.12	1.75	1.72	4.19	2.19	1.93	2.37	1.49	1.47	9.00	2.39
3	3.69	2.03	1.72	1.73	3.56	2.09	1.92	2.19	1.72	1.44	4.82	3.94
4	3.04	1.83	1.70	1.94	3.50	2.04	1.90	2.07	2.22	1.43	4.89	4.60
5	2.51	1.77	1.69	2.09	3.47	1.99	1.87	1.98	1.97	1.51	5.36	3.78
6	2.22	1.74	2.00	1.91	3.14	1.94	1.82	1.92	1.83	1.50	3.54	2.62
7	2.05	1.72	1.90	1.90	2.87	1.91	1.80	1.87	1.71	1.53	2.64	2.21
8	1.95	---	1.77	1.87	2.64	1.89	2.11	1.83	1.62	1.47	2.25	2.00
9	1.87	---	1.73	2.02	2.48	1.87	2.41	1.79	1.57	1.43	2.03	1.88
10	1.88	1.67	1.78	6.10	2.36	1.85	2.13	1.76	1.53	1.43	2.01	1.80
11	1.98	1.68	1.82	5.46	2.27	1.96	2.01	1.76	1.50	1.41	1.91	1.75
12	1.91	1.67	1.76	3.70	3.13	2.09	1.94	1.71	1.48	1.45	1.81	1.69
13	1.84	1.65	1.74	2.89	3.78	1.86	2.07	1.66	1.46	1.52	1.76	1.65
14	1.81	1.66	6.07	2.61	3.66	1.80	2.14	1.65	1.69	1.47	1.71	2.40
15	1.77	1.66	4.19	2.34	3.31	1.80	2.50	1.59	1.64	3.08	1.64	1.85
16	1.73	1.64	3.00	2.18	2.81	2.09	2.52	1.55	1.56	2.07	1.60	1.71
17	3.15	1.63	2.49	2.06	2.50	2.19	2.42	1.53	1.51	2.05	1.56	1.64
18	4.46	1.61	2.24	2.03	3.01	1.96	4.82	1.52	1.50	1.76	1.57	1.71
19	3.07	1.61	2.16	1.99	2.99	1.88	2.93	1.52	1.52	1.64	1.56	1.80
20	3.38	1.62	2.13	2.24	2.72	2.22	2.50	1.51	1.80	1.57	1.52	1.71
21	3.43	1.63	2.08	2.29	2.50	2.72	2.28	1.71	1.70	1.62	1.50	1.66
22	2.65	1.65	2.08	2.19	2.31	2.30	2.12	2.30	1.65	1.57	1.49	1.63
23	2.33	1.65	2.01	2.33	2.19	2.17	2.01	1.84	1.61	1.62	1.47	2.62
24	2.13	1.65	1.94	2.48	2.10	2.09	1.94	1.67	1.53	5.11	1.47	2.20
25	2.00	1.66	1.88	2.87	2.04	2.00	2.12	1.60	1.48	2.90	1.48	3.48
26	1.92	2.10	1.84	2.88	1.99	1.99	2.11	1.56	1.45	2.44	1.47	6.34
27	1.86	2.35	1.82	2.74	2.02	2.29	2.47	1.52	1.44	2.14	1.65	3.37
28	1.82	2.04	1.80	2.57	2.50	2.68	2.67	1.55	1.52	1.94	1.93	2.47
29	1.79	1.93	1.78	2.44	2.48	2.32	3.64	1.77	1.83	5.38	1.91	2.16
30	1.76	1.86	1.76	3.79	---	2.16	3.55	1.59	1.62	3.33	---	1.98
31	1.74	---	1.75	6.25	---	2.06	---	1.53	---	2.56	---	---
MEAN	2.54	---	2.13	2.69	2.89	2.09	2.35	1.78	1.62	2.04	---	---
MAX	6.46	---	6.07	6.25	5.21	2.72	4.82	2.66	2.22	5.38	---	---
MIN	1.73	---	1.69	1.72	1.99	1.80	1.80	1.51	1.44	1.41	---	---

02087322 CRABTREE CREEK AT OLD WAKE FOREST ROAD AT RALEIGH, NC--Continued



02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC

LOCATION.--Lat 35°48'40", long 78°36'43", Wake County, Hydrologic Unit 03020201, on downstream side of bridge on U.S. Highway 1, 2.7 mi northeast of Raleigh, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--121 mi^2.

PERIOD OF RECORD.--July 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 183.27 ft above sea level. Satellite and telephone 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 well. Minimum discharge for period of record also occurred Oct. 8, 9, 1994.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 17.98 ft, discharge, about 13,500 ft^3/s.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	47	56	47	767	135	79	202	29	30	255	221
2	706	120	51	46	599	115	71	142	28	26	1540	153
3	515	94	47	47	488	97	70	109	53	25	564	441
4	365	60	44	85	476	90	67	87	137	23	576	635
5	220	51	43	104	471	81	63	74	86	32	669	414
6	139	48	98	72	400	74	56	65	67	30	345	210
7	95	46	72	69	335	70	52	58	52	34	191	137
8	74	44	53	63	282	66	118	53	40	26	122	99
9	61	41	48	89	244	63	160	47	35	23	88	77
10	66	41	54	945	217	60	103	43	31	23	87	63
11	82	40	59	755	195	84	83	46	29	22	70	55
12	71	39	51	411	376	109	72	40	27	25	58	48
13	62	38	47	252	528	64	97	36	26	32	51	43
14	59	38	940	203	505	56	106	37	71	28	46	198
15	54	39	516	150	425	54	178	33	46	326	39	70
16	50	38	280	120	303	124	180	30	35	110	35	51
17	337	36	177	100	224	e122	156	30	31	106	32	43
18	596	34	127	94	310	80	630	30	30	58	34	51
19	299	34	113	88	293	68	262	29	29	44	32	62
20	383	35	108	135	231	133	169	29	60	36	28	50
21	379	36	98	140	181	236	125	51	48	43	27	43
22	213	37	100	122	141	140	98	151	42	37	26	41
23	147	38	87	152	115	115	81	69	38	43	25	212
24	107	38	76	178	100	99	71	44	31	681	25	124
25	85	38	68	257	91	84	100	37	27	260	25	397
26	71	122	62	261	83	84	95	33	25	169	24	930
27	63	162	58	232	88	143	164	30	24	115	41	339
28	57	95	56	197	178	219	206	34	33	84	74	178
29	53	78	53	169	171	141	400	59	73	734	73	118
30	49	65	50	434	---	109	388	37	40	330	112	89
31	48	---	48	951	---	92	---	31	---	198	140	---
TOTAL	6626	1672	3740	6968	8817	3207	4500	1796	1323	3753	5454	5592
MEAN	214	55.7	121	225	304	103	150	57.9	44.1	121	176	186
MAX	1120	162	940	951	767	236	630	202	137	734	1540	930
MIN	48	34	43	46	83	54	52	29	24	22	24	41
CFSM	1.77	.46	1.00	1.86	2.51	.85	1.24	.48	.36	1.00	1.45	1.54
IN.	2.04	.51	1.15	2.14	2.71	.99	1.38	.55	.41	1.15	1.68	1.72

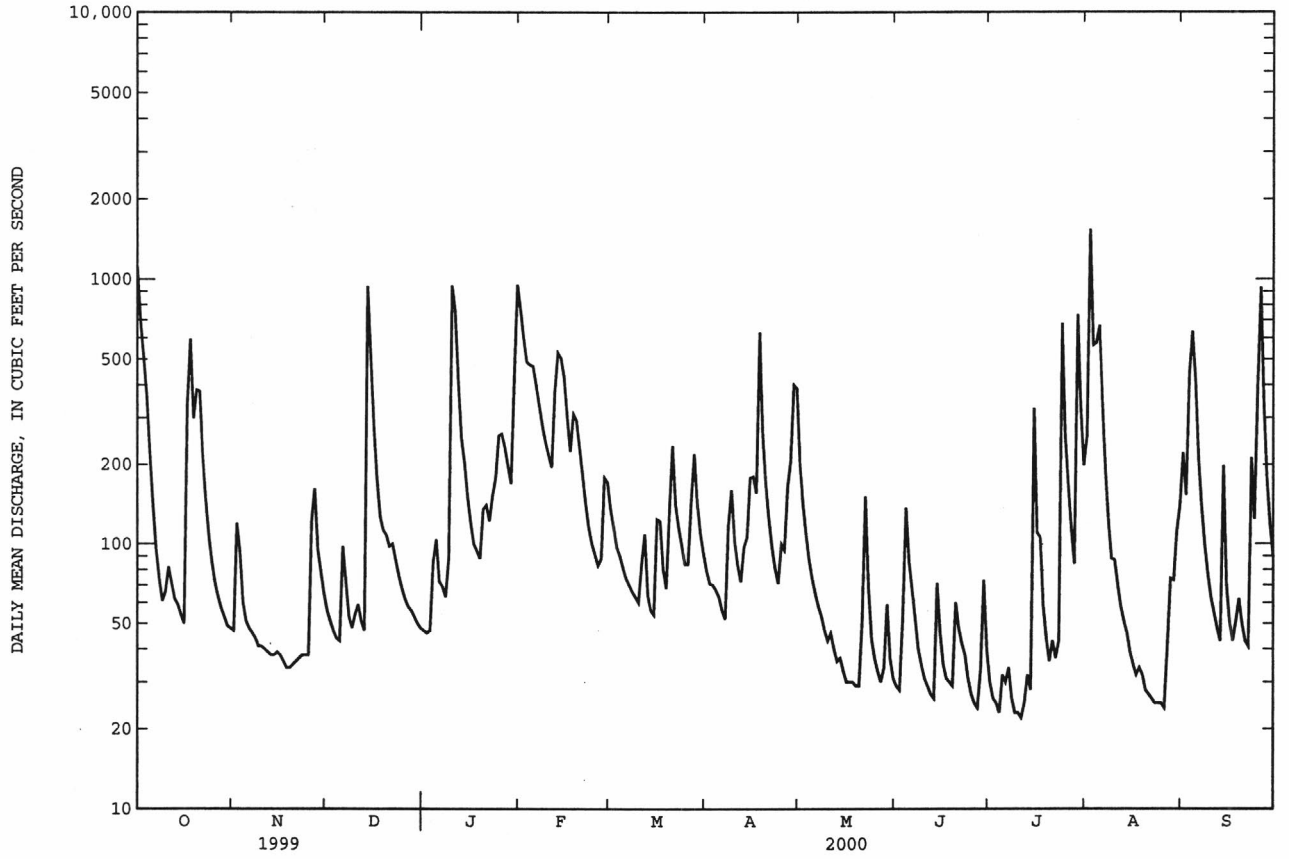
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY)

MEAN	129	101	105	261	209	234	134	79.3	106	89.5	83.1	245
MAX	370	255	176	495	483	494	355	122	257	198	176	1162
(WY)	1996	1993	1997	1998	1998	1998	1993	1996	1990	1997	2000	1999
MIN	30.8	23.2	45.2	173	59.5	103	57.4	45.6	21.3	30.7	31.7	14.2
(WY)	1992	1992	1995	1994	1991	2000	1995	1995	1999	1993	1993	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000	
ANNUAL TOTAL	70893.6		53448			
ANNUAL MEAN	194		146		149	
HIGHEST ANNUAL MEAN					242	1996
LOWEST ANNUAL MEAN					97.7	1991
HIGHEST DAILY MEAN	6060	Sep 16	1540	Aug 2	7730	Sep 6 1996
LOWEST DAILY MEAN	9.0	Aug 7	22	Jul 11	1.9	Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	10	Aug 2	26	Jul 8	2.3	Oct 2 1994
INSTANTANEOUS PEAK FLOW			2390	Sep 4	12700	Sep 6 1996
INSTANTANEOUS PEAK STAGE			11.15	Sep 4	18.23*	Sep 6 1996
INSTANTANEOUS LOW FLOW			19	Jul 12	1.9*	Oct 7 1994
ANNUAL RUNOFF (CFSM)	1.61		1.21		1.23	
ANNUAL RUNOFF (INCHES)	21.80		16.43		16.72	
10 PERCENT EXCEEDS	375		377		303	
50 PERCENT EXCEEDS	62		74		70	
90 PERCENT EXCEEDS	19		31		19	

e Estimated.
* See REMARKS.

02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC--Continued



0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC

LOCATION.--Lat 35°47'14", long 78°39'17", Wake County, Hydrologic Unit 03020201, on right bank, downstream of Cameron Village in Wells Park, on the upstream side of Forest Drive.

DRAINAGE AREA.--0.27 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year. Fragmentary records, July 1987 to September 1996, are available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 320 ft above sea level from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except for estimated daily discharges and those above 20 ft^3/s, which are poor. Minimum discharge for current water year also occurred Sept. 26-30.

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	.21	.17	e.15	e.13	.70	.16	.12	.13	.08	.10	3.3	.20
2	.16	1.1	e.13	.15	.46	.16	.13	.13	.07	.11	.64	2.1
3	.17	.13	e.14	.14	.53	.13	.21	.12	.24	.09	.47	3.0
4	.14	e.12	.14	1.6	.54	.32	.13	.12	.44	.15	1.6	3.3
5	.14	.11	.14	e.20	.33	.09	.12	.12	.24	.13	.36	.29
6	.13	.12	1.3	e.14	.26	.10	.12	.13	.14	.11	.13	.15
7	.13	.11	e.14	.27	.25	.13	.12	.11	.08	.09	.13	.17
8	.12	.12	e.11	.12	.20	.18	2.1	.11	.08	.08	.13	.14
9	.12	.12	e.10	.86	.20	.18	.31	.11	.07	.16	.12	.12
10	.52	.12	.34	4.8	.19	.18	.18	.11	.07	.09	.62	.12
11	.26	.13	.13	.21	.21	2.4	.11	.12	.07	.09	.11	.11
12	.13	.12	e.11	.15	2.2	.36	.12	.12	.06	.08	.11	.11
13	.15	.12	.16	.15	.24	.18	.88	.11	.07	.49	.10	.12
14	.13	.12	3.9	.12	.78	.17	.41	.10	3.9	.09	.11	2.5
15	.11	.10	.18	.12	.19	.18	.95	.09	.26	8.0	.09	.14
16	.11	.11	.16	.12	.17	2.5	.13	.10	.15	.43	.09	.11
17	3.8	e.11	e.15	.12	.16	.29	.14	.09	.46	.09	.09	.10
18	.29	e.09	e.13	.29	1.1	.14	.87	.08	.27	.08	.47	.45
19	.40	.10	.56	.24	.19	.14	.13	.09	.26	.08	.11	e.43
20	4.9	.13	.45	.84	.17	1.7	.12	.09	.15	.07	.09	e.10
21	.61	.12	.34	.12	.16	.44	.13	.37	.15	.38	.09	e.18
22	.19	.18	e.27	.12	.16	.15	.12	1.3	.30	.08	.08	.39
23	.16	.13	e.15	.81	.15	.15	.12	.10	.13	.53	.08	2.8
24	.15	.14	e.14	.64	.16	.15	.23	.10	.13	2.8	.08	.11
25	.13	.20	e.13	.49	.17	.16	.71	.11	.12	.78	.33	6.2
26	.14	1.5	e.14	.59	.17	.29	.12	.08	.11	.15	.10	.39
27	.13	.13	e.14	.43	1.1	1.3	.51	.10	.09	.09	.48	.06
28	.13	e.13	e.15	.28	.31	.27	1.5	.37	.88	.09	.50	.04
29	.12	e.14	e.13	.31	.17	.14	1.2	.25	1.1	2.4	.22	.04
30	.22	e.16	e.15	3.2	---	.19	.21	.09	.11	.14	1.4	.04
31	.12	---	e.14	1.2	---	.13	---	.12	---	.79	2.1	---
TOTAL	14.22	6.18	10.50	18.96	11.62	13.06	12.25	5.17	10.28	18.84	14.33	24.01
MEAN	.46	.21	.34	.61	.40	.42	.41	.17	.34	.61	.46	.80
MAX	4.9	1.5	3.9	4.8	2.2	2.5	2.1	1.3	3.9	8.0	3.3	6.2
MIN	.11	.09	.10	.12	.15	.09	.11	.08	.06	.07	.08	.04
CFSM	1.70	.76	1.25	2.27	1.48	1.56	1.51	.62	1.27	2.25	1.71	2.96
IN.	1.96	.85	1.45	2.61	1.60	1.80	1.69	.71	1.42	2.60	1.97	3.31

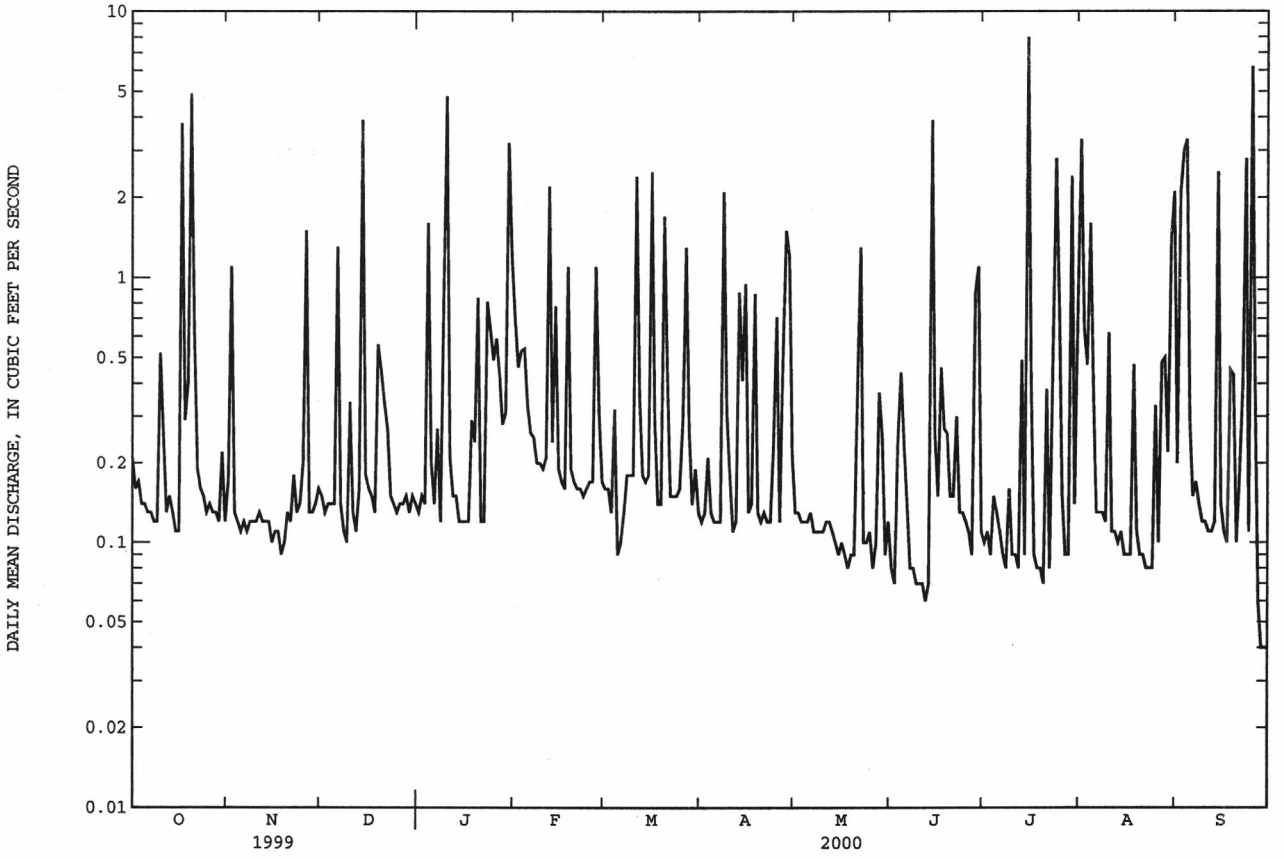
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.35	.37	.40	.87	.60	.72	.43	.34	.37	.57	.57	1.05
MAX	.46	.46	.51	1.32	1.02	1.31	.63	.60	.50	.90	.71	2.78
(WY)	2000	1998	1998	1998	1998	1998	1997	1997	1998	1998	1999	1999
MIN	.15	.21	.33	.37	.40	.42	.26	.14	.18	.21	.46	.23
(WY)	1997	2000	1997	1997	2000	2000	1999	1999	1999	1999	2000	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	225.05		159.42			
ANNUAL MEAN	.62		.44		.55	
HIGHEST ANNUAL MEAN					.69	1998
LOWEST ANNUAL MEAN					.44	2000
HIGHEST DAILY MEAN	15	Sep 5	8.0	Jul 15	15	Aug 31 1997
LOWEST DAILY MEAN	.03	Jul 28	.04	Sep 28	.03	Jul 28 1999
ANNUAL SEVEN-DAY MINIMUM	.03	Aug 1	.07	Jun 7	.03	Aug 1 1999
INSTANTANEOUS PEAK FLOW			470	Jul 15	622	Aug 21 1999
INSTANTANEOUS PEAK STAGE			7.16	Jul 15	8.23	Aug 21 1999
INSTANTANEOUS LOW FLOW			.03*	Sep 26	NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	2.28		1.61		2.05	
ANNUAL RUNOFF (INCHES)	31.01		21.96		27.86	
10 PERCENT EXCEEDS	1.1		1.0		1.2	
50 PERCENT EXCEEDS	.14		.14		.13	
90 PERCENT EXCEEDS	.06		.09		.07	

e Estimated.
* See REMARKS.

0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC--Continued



02087325534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC--Continued

PRECIPITATION RECORDS

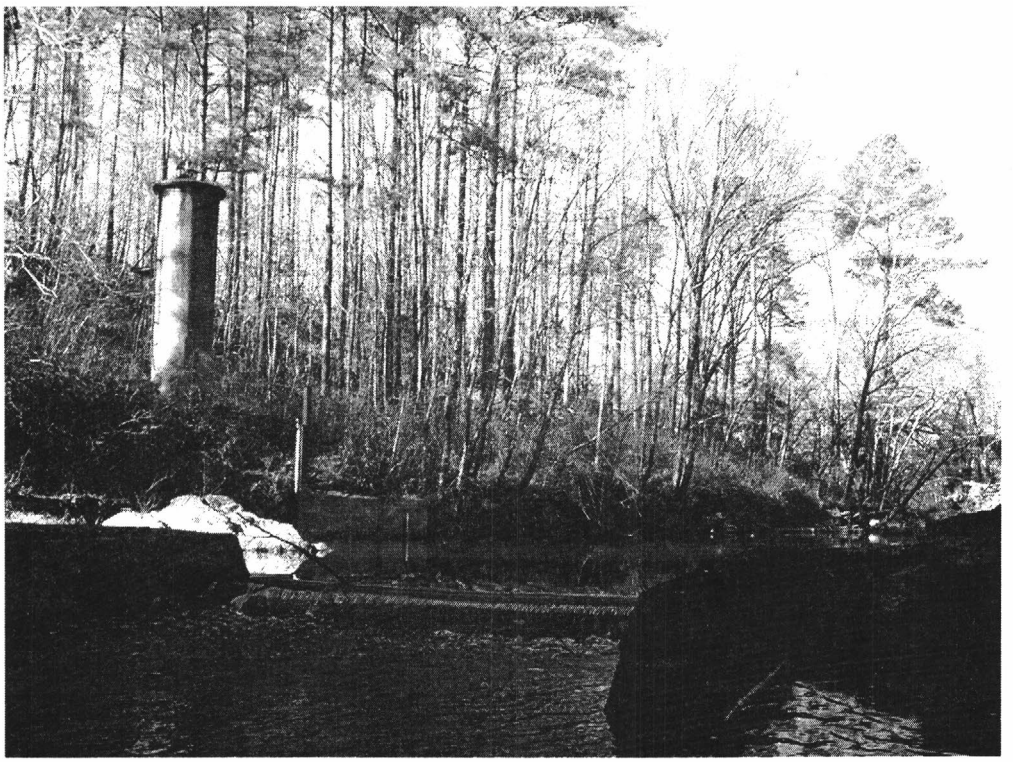
PERIOD OF RECORD.--July 1987 to current year. Records from July 1987 to January 2000 are unpublished and available in the USGS District Office in Raleigh, NC.

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	.31	.00	.00	.00	.00	.02	1.13	.00
2	---	---	---	---	.07	.00	.00	.00	.00	.00	.14	.82
3	---	---	---	---	.07	.00	.04	.00	.09	.00	.15	.99
4	---	---	---	---	.00	.15	.00	.00	.17	.06	.54	1.15
5	---	---	---	---	.00	.00	.00	.00	.08	.01	.06	.00
6	---	---	---	---	.00	.00	.00	.00	.00	.01	.00	.00
7	---	---	---	---	.00	.00	.00	.00	.00	.00	.00	.00
8	---	---	---	---	.00	.00	.84	.00	.00	.00	.00	.00
9	---	---	---	---	.00	.00	.00	.00	.00	.04	.00	.00
10	---	---	---	---	.00	.00	.00	.00	.00	.00	.27	.00
11	---	---	---	---	.00	.88	.00	.00	.00	.00	.00	.00
12	---	---	---	---	.77	.01	.00	.00	.00	.00	.00	.00
13	---	---	---	---	.01	.00	.41	.00	.00	.29	.02	.00
14	---	---	---	---	.22	.00	.19	.00	1.26	.00	.00	.86
15	---	---	---	---	.00	.00	.29	.00	.01	2.27	.00	.00
16	---	---	---	---	.00	.83	.00	.00	.03	.17	.00	.00
17	---	---	---	---	.00	.01	.19	.01	.11	.01	.00	.00
18	---	---	---	---	.44	.00	.17	.00	.08	.00	.23	.24
19	---	---	---	---	.01	.00	.00	.00	.07	.00	.00	.08
20	---	---	---	---	.00	.77	.00	.00	.00	.00	.00	.00
21	---	---	---	---	.00	.00	.00	.25	.00	.11	.00	.08
22	---	---	---	---	.00	.00	.00	.52	.06	.00	.00	.23
23	---	---	---	---	.00	.00	.00	.00	.00	.47	.00	1.11
24	---	---	---	---	.00	.00	.11	.00	.00	.72	.00	.00
25	---	---	---	---	.00	.02	.23	.00	.00	.30	.22	2.03
26	---	---	---	---	.00	.03	.00	.00	.00	.02	.00	.02
27	---	---	---	---	.50	.55	.20	.00	.01	.00	.13	.00
28	---	---	---	---	.02	.00	.49	.15	.44	.00	.13	.00
29	---	---	---	---	.00	.00	.43	.04	.45	.75	.11	.00
30	---	---	---	---	---	.03	.01	.00	.00	.03	.59	.00
31	---	---	---	---	---	.00	---	.00	---	.44	.72	---
TOTAL	---	---	---	---	2.42	3.28	3.60	0.97	2.86	5.72	4.44	7.61



USGS gaging station at Tar River.

0208732885 MARSH CREEK NEAR NEW HOPE, NC

LOCATION.--Lat 35°48'59", long 78°35'37", Wake County, Hydrologic Unit 03020201, at right upstream wingwall, on bridge at Stoneybrook Road, 0.2 mi downstream of U.S. Highway 401, and 2.9 mi southwest of New Hope.

DRAINAGE AREA.--6.84 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1984 to current year.

REVISED RECORDS.--WDR NC-95-1: 1995(M).

GAGE.--Water-stage recorder. Datum of gage is 196.63 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.-- Records good to fair. Maximum discharge for period of record from rating curve extension above 1,300 ft^3/s, on basis of indirect measurement of peak flow. Minimum discharge for period of record also occurred Aug. 5, 1990.

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	2.9	2.4	2.6	20	7.1	3.2	5.1	2.3	1.4	42	3.3
2	6.0	19	2.4	2.4	14	3.6	3.0	3.7	1.8	1.2	48	20
3	4.6	5.7	2.4	2.4	14	3.1	3.2	3.2	17	1.0	7.2	79
4	3.9	3.7	2.6	17	14	3.8	3.1	2.8	22	.87	21	178
5	3.5	3.0	2.6	11	9.9	3.4	2.8	2.5	5.0	5.3	14	20
6	3.1	2.6	19	4.5	6.8	3.1	2.7	2.3	4.1	1.3	4.2	4.7
7	2.9	2.5	6.3	4.8	5.9	3.2	2.6	2.1	2.2	22	2.8	3.3
8	2.6	2.5	3.8	3.4	5.2	3.3	34	2.0	1.8	3.7	2.3	2.6
9	2.6	2.7	3.1	11	4.9	3.1	16	1.8	1.5	2.9	2.0	2.1
10	6.2	3.2	6.0	114	4.9	3.1	4.0	1.7	1.3	2.3	4.7	1.7
11	6.4	4.0	5.1	11	4.7	17	3.2	e1.8	1.2	2.6	2.1	1.5
12	3.8	3.9	3.5	5.1	41	20	2.9	1.5	1.2	13	1.8	1.4
13	3.2	3.0	3.1	4.0	12	4.6	15	1.4	1.1	5.0	1.6	1.3
14	2.7	2.9	80	3.2	18	5.0	8.2	1.3	41	2.7	1.6	41
15	2.3	2.8	7.8	2.9	7.1	5.6	24	1.2	12	86	1.5	7.1
16	2.3	2.9	4.6	2.9	5.5	54	5.7	1.2	3.0	6.9	1.3	2.9
17	97	2.9	3.5	2.6	4.5	16	4.5	1.2	4.7	25	1.3	2.0
18	21	2.9	3.1	4.3	26	3.4	27	1.2	5.6	3.9	1.9	6.2
19	5.5	2.6	6.6	4.0	8.0	3.7	5.3	1.2	3.6	2.9	1.4	12
20	69	2.6	6.1	18	5.4	35	3.9	1.1	2.5	2.4	1.3	3.6
21	36	2.7	5.6	6.3	4.5	31	3.6	8.9	2.0	5.4	1.2	2.8
22	7.2	3.0	5.8	3.9	4.1	7.2	2.9	32	1.9	2.8	1.2	3.2
23	4.5	2.7	3.8	14	3.8	5.7	2.6	3.4	1.6	11	1.2	58
24	3.4	2.8	3.3	11	3.8	4.8	3.0	2.3	1.2	84	1.2	7.4
25	3.2	3.1	2.8	e9.3	3.6	4.1	17	1.7	1.0	15	1.3	89
26	2.9	17	2.8	e2.9	3.6	6.1	5.5	1.3	.84	7.1	1.3	58
27	2.8	7.0	2.7	e2.9	8.2	32	35	1.0	.80	3.8	1.9	5.9
28	2.8	3.8	2.8	e2.9	10	17	41	12	6.1	2.3	2.2	3.8
29	2.9	3.0	2.5	e2.9	4.7	4.7	45	21	8.0	87	7.5	3.0
30	2.8	2.5	2.6	71	---	4.4	22	3.4	1.8	25	18	2.5
31	2.9	---	2.6	46	---	3.5	---	3.2	---	25	8.8	---
MEAN	10.7	4.20	6.82	13.0	9.59	10.4	11.7	4.21	5.34	14.9	6.77	20.9
MAX	97	19	80	114	41	54	45	32	41	87	48	178
MIN	2.3	2.5	2.4	2.4	3.6	3.1	2.6	1.0	.80	.87	1.2	1.3
IN.	1.80	.68	1.15	2.20	1.51	1.75	1.91	.71	.87	2.51	1.14	3.41

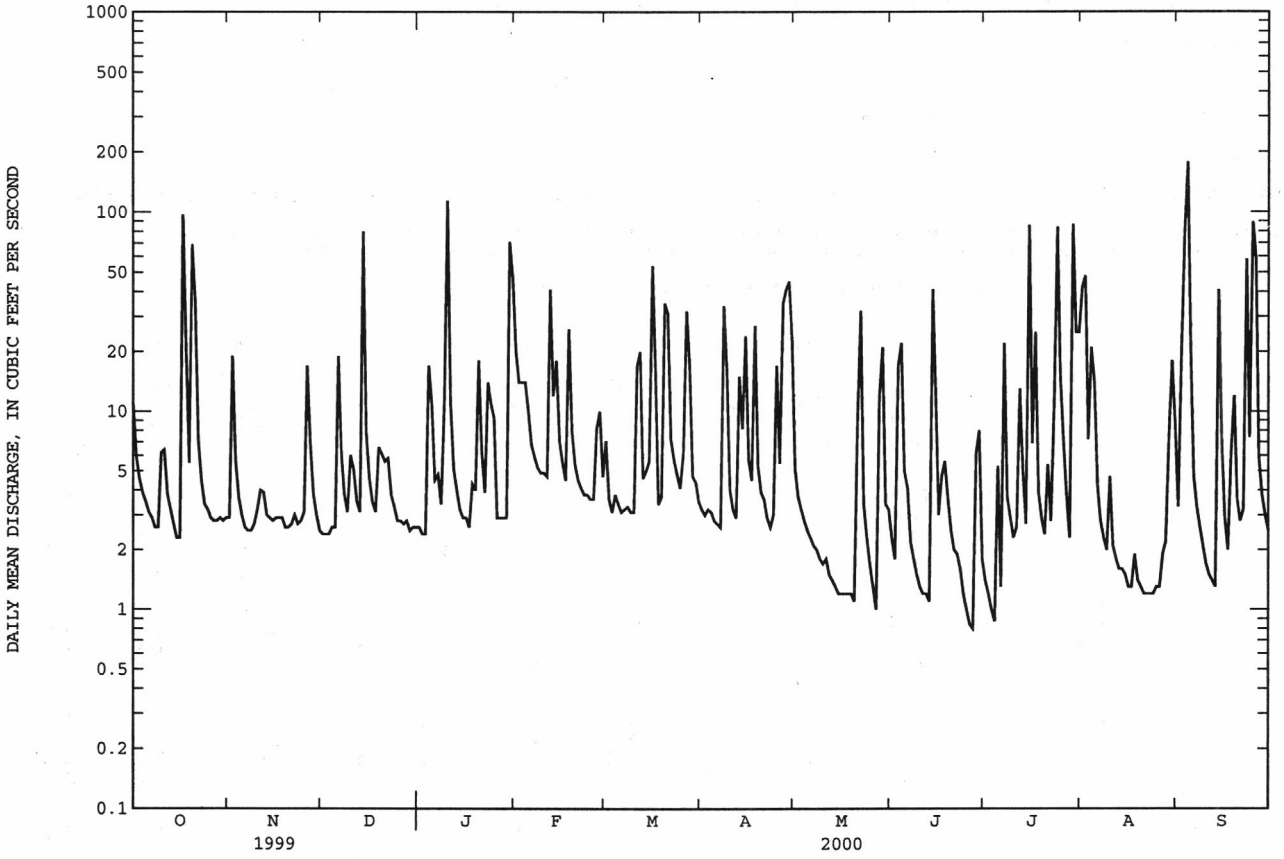
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

MEAN	7.41	7.70	6.83	12.6	11.5	14.0	9.56	8.52	8.26	8.78	8.97	13.4
MAX	23.3	15.7	10.3	30.3	22.0	31.9	19.2	25.9	20.3	25.0	38.0	67.4
(WY)	1996	1996	1990	1998	1998	1998	1989	1984	1989	1997	1986	1999
MIN	1.95	1.72	2.02	3.77	2.77	4.54	2.08	2.71	1.29	2.44	2.07	1.86
(WY)	1987	1992	1995	1986	1991	1986	1985	1999	1993	1987	1993	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1984 - 2000	
ANNUAL MEAN	12.2		9.87		9.82	
HIGHEST ANNUAL MEAN					14.9	1996
LOWEST ANNUAL MEAN					5.87	1988
HIGHEST DAILY MEAN	643	Sep 16	178	Sep 4	890	Sep 6 1996
LOWEST DAILY MEAN	.00	Aug 3	.80	Jun 27	.00	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	.05	Aug 1	1.2	May 14	.05	Aug 1 1999
INSTANTANEOUS PEAK FLOW			906	Sep 4	3900	Sep 6 1996
INSTANTANEOUS PEAK STAGE			9.20	Sep 4	13.33	Sep 6 1996
INSTANTANEOUS LOW FLOW			.54	Jun 27	.00*	Aug 3 1999
ANNUAL RUNOFF (INCHES)	24.29		19.65		19.50	
10 PERCENT EXCEEDS	19		22		18	
50 PERCENT EXCEEDS	3.1		3.6		3.4	
90 PERCENT EXCEEDS	.86		1.5		1.3	

e Estimated.
* See REMARKS.

0208732885 MARSH CREEK NEAR NEW HOPE, NC--Continued



0208732885 MARSH CREEK NEAR NEW HOPE, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--September 1985 to current year. Records from September 1985 to September 1999 are unpublished and available in the USGS District Office in Raleigh, NC.

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

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	---	---	---	---	.00	.07	.56	.00
2	.00	.68	.00	.00	---	---	---	---	.00	.00	.05	.59
3	.00	.00	.00	.00	---	---	---	---	.12	.00	.16	.97
4	.00	.00	.01	.42	---	---	---	---	.09	.00	.72	1.02
5	.00	.00	.00	.00	---	---	---	---	.08	.25	.10	.00
6	.00	.00	.64	.00	---	---	---	---	.03	.00	.00	.00
7	.00	.00	.00	.08	---	---	---	---	.00	.37	.00	.00
8	.00	.00	.00	.03	---	---	---	---	.00	.00	.00	.00
9	.00	.00	.00	.37	---	---	---	---	.00	.00	.00	.00
10	.33	.00	.13	2.31	---	---	---	---	.00	.00	.19	.00
11	.09	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
12	.00	.00	.00	.00	---	---	---	.00	.00	.05	.00	.00
13	.03	.01	.17	.00	---	---	---	.00	.00	.12	.00	.00
14	.00	.00	1.54	.00	---	---	---	.00	1.23	.00	.00	1.92
15	.00	.00	.01	.00	---	---	---	.00	.01	1.77	.00	.00
16	.00	.00	.00	.00	---	---	---	.00	.04	.08	.00	.00
17	2.64	.00	.00	.00	---	---	---	.01	.42	.13	.00	.00
18	.00	.00	.00	.00	---	---	---	.00	.21	.00	.21	.31
19	.00	.00	.25	.13	---	---	---	.00	.07	.00	.00	.29
20	2.14	.00	.06	.51	---	---	---	.00	.01	.00	.00	.00
21	.07	.00	.11	.00	---	---	---	.33	.00	.20	.00	.01
22	.00	.03	.06	.00	---	---	---	.81	.06	.00	.00	.24
23	.00	.02	.00	.42	---	---	---	.00	.01	.19	.00	1.07
24	.00	.00	.01	.32	---	---	---	.00	.00	.84	.00	.01
25	.00	.00	.00	.00	---	---	---	.00	.00	.31	.00	1.61
26	.00	.53	.00	.01	---	---	---	.00	.00	.05	.00	.03
27	.00	.00	.00	.00	---	---	---	.00	.00	.00	.05	.00
28	.00	.00	.00	.02	---	---	---	.25	.53	.00	.03	.00
29	.00	.00	.00	.01	---	---	---	.04	.48	1.58	.40	.00
30	.00	.00	.00	.17	---	---	---	.00	.00	.03	.46	.00
31	.00	---	.02	.25	---	---	---	.00	---	.59	.07	---
TOTAL	5.30	1.27	3.01	5.05	---	---	---	---	3.39	6.63	3.00	8.07



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

0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°46'48", long 78°39'59", Wake County, Hydrologic Unit 03020201, on right bank, 0.1 mi below Pullen Drive at Pullen Park and 1.5 mi north of Raleigh.

DRAINAGE AREA.--1.17 mi^2.

PERIOD OF RECORD.--October 1996 to current year. Fragmentary records, June 1992 to September 1996, are unpublished and available in the files of the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Elevation of gage is 315 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 300 ft^3/s, which are poor. Minimum discharge for period of record and current water year due to diversion by City of Raleigh.

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	1.4	.58	.91	.32	3.3	.62	.51	e.01	.47	.58	23	1.8
2	1.2	6.7	.80	.32	2.2	.65	.49	e.01	.32	.34	5.3	8.3
3	1.1	1.1	.83	.37	2.9	.65	.66	e.01	1.3	.35	1.9	22
4	1.1	1.1	.80	6.4	2.6	1.6	.70	e.01	.87	.46	4.7	34
5	1.1	1.1	.96	.64	1.5	.65	.74	e.01	.64	.35	1.1	1.1
6	1.1	1.1	4.9	.24	1.2	.55	.76	.03	.44	.45	.34	.31
7	1.1	1.1	.48	.74	1.0	.53	.84	.07	.33	.46	.50	.23
8	1.1	1.1	.34	.23	.84	.52	7.3	.10	.32	.43	.50	.23
9	1.1	1.3	.32	3.2	.88	.54	.84	.09	e.23	1.0	.50	.23
10	2.8	1.3	1.1	26	.86	.54	.66	.21	e.07	.45	1.5	.23
11	1.5	1.4	.62	1.1	.85	8.0	.71	.39	.22	.33	.35	.23
12	.86	1.5	.33	.96	10	1.1	.71	.46	.24	e.21	.23	.25
13	.94	1.4	.31	.95	1.3	.60	3.6	.48	.27	e1.0	.24	.30
14	.89	1.4	19	1.3	3.7	.55	1.8	.49	10	.11	.23	7.9
15	.95	1.4	.48	1.3	.97	.67	4.0	.45	.49	39	.23	.45
16	1.1	1.3	.50	1.3	.80	7.0	.71	.50	.39	1.5	.23	.32
17	25	1.4	.46	1.2	.75	1.1	.69	.42	.67	.32	.23	.34
18	1.6	.92	.32	1.6	5.1	.52	3.7	.48	.85	.32	2.1	1.6
19	.87	.33	1.6	1.0	.94	.49	.52	.46	.54	.34	.27	1.4
20	22	.45	.96	3.8	.74	7.5	.80	.49	.34	.33	.55	.30
21	5.6	.77	.97	.59	.74	1.6	.81	.91	.32	1.1	e.18	.58
22	1.3	.91	.63	.49	.75	.67	.74	4.3	1.1	.32	e.04	1.4
23	1.1	1.0	.32	3.6	.66	.54	.80	.49	.36	1.9	e.10	13
24	1.1	.76	.30	2.6	.67	.58	.82	.50	.32	18	.23	.58
25	.90	.84	.28	2.0	.53	.65	1.2	.48	.39	2.5	.34	32
26	.86	7.0	.32	2.1	.53	.82	e.01	.42	.41	.52	.23	4.3
27	.86	.54	.32	1.5	3.4	5.0	e.61	.37	.42	.35	.78	1.1
28	.86	.65	.34	1.0	1.2	1.2	e4.7	1.1	3.2	.33	1.3	.87
29	.85	.81	.27	1.0	.60	.59	1.3	.82	3.7	12	.58	.74
30	.67	.95	.35	16	---	.68	e.02	.42	.35	.68	5.4	.74
31	.54	---	.32	5.9	---	.54	---	.36	---	2.4	26	---
TOTAL	83.45	42.21	40.44	89.75	51.51	47.25	41.75	15.34	29.57	88.43	79.18	136.83
MEAN	2.69	1.41	1.30	2.90	1.78	1.52	1.39	.49	.99	2.85	2.55	4.56
MAX	25	7.0	19	26	10	8.0	7.3	4.3	10	39	26	34
MIN	.54	.33	.27	.23	.53	.49	.01	.01	.07	.11	.04	.23
CFSM	2.30	1.20	1.11	2.47	1.52	1.30	1.19	.42	.84	2.44	2.18	3.90
IN.	2.65	1.34	1.29	2.85	1.64	1.50	1.33	.49	.94	2.81	2.52	4.35

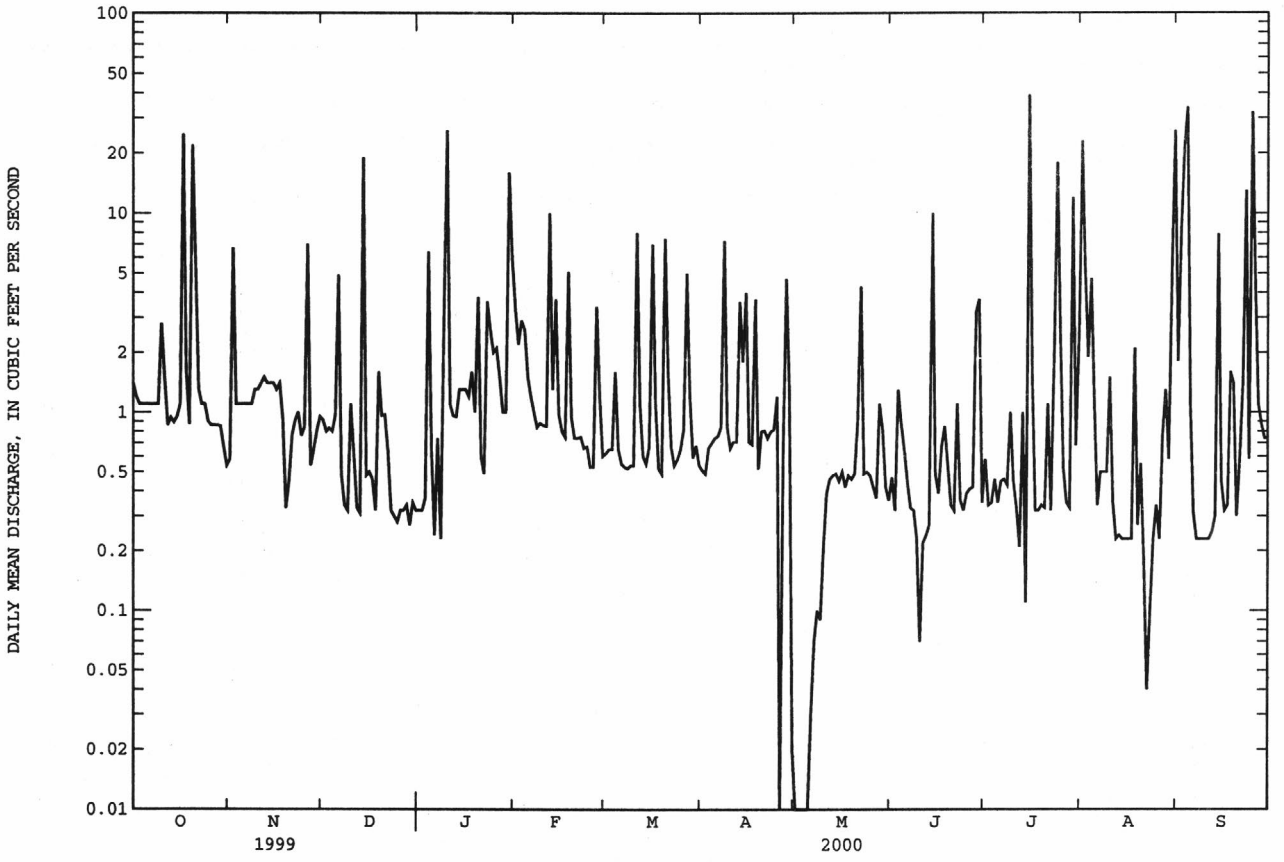
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	2.06	1.51	1.60	3.76	2.64	3.05	2.01	1.22	1.33	2.92	2.38	6.23
MAX	2.69	2.00	1.85	6.08	5.45	6.58	2.65	1.71	2.09	5.22	3.35	17.8
(WY)	2000	1998	1998	1998	1998	1998	1997	1997	1998	1997	1999	1999
MIN	1.32	1.13	1.30	1.71	1.17	1.52	1.39	.49	.71	1.16	.71	.91
(WY)	1997	1999	2000	1997	1999	2000	2000	2000	1999	1999	1997	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	1186.08		745.71			
ANNUAL MEAN	3.25		2.04		2.56	
HIGHEST ANNUAL MEAN					3.19	1999
LOWEST ANNUAL MEAN					1.89	1997
HIGHEST DAILY MEAN	109	Sep 5	39	Jul 15	119	Jul 24 1997
LOWEST DAILY MEAN	.00	May 6	.01	Apr 26	.00	Oct 6 1998
ANNUAL SEVEN-DAY MINIMUM	.30	Jul 17	.01	Apr 30	.01	Apr 30 2000
INSTANTANEOUS PEAK FLOW			1380	Jul 15	2590	Jul 24 1997
INSTANTANEOUS PEAK STAGE			7.84	Jul 15	9.23	Jul 24 1997
INSTANTANEOUS LOW FLOW					.00	Jun 8 1997
ANNUAL RUNOFF (CFSM)	2.78		1.74		2.19	
ANNUAL RUNOFF (INCHES)	37.71		23.71		29.69	
10 PERCENT EXCEEDS	4.9		4.1		4.7	
50 PERCENT EXCEEDS	.72		.74		.64	
90 PERCENT EXCEEDS	.33		.25		.32	

e Estimated.

0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC--Continued



02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°45'30", long 78°34'58", Wake County, Hydrologic Unit 03020201, at bridge on Secondary Road 2544, 0.9 mi upstream from Big Branch, and 3.5 mi southeast of Raleigh.

DRAINAGE AREA.--29.0 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 190.8 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from computation of peak flow through culvert; maximum gage height, 17.03 ft, from high-water mark in gage shelter. Minimum discharge for period of record also occurred on Aug. 5, 6, 7, 8, 1999. 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	55	13	12	13	65	27	18	18	8.2	12	46	104
2	31	40	11	13	50	20	18	16	7.9	12	137	29
3	24	27	11	13	48	18	18	14	13	10	81	222
4	21	17	12	29	46	21	18	13	34	8.7	94	164
5	19	15	12	45	41	23	17	13	17	11	101	212
6	18	14	35	21	37	18	16	12	14	10	42	99
7	16	13	27	19	30	17	15	13	11	8.9	18	83
8	15	12	19	17	26	19	41	12	8.8	7.6	13	51
9	15	12	15	29	25	16	51	11	8.1	10	11	16
10	17	12	16	277	31	17	28	11	7.4	8.9	24	12
11	25	12	17	108	30	18	19	11	6.8	7.3	14	11
12	18	11	14	64	99	61	17	10	6.6	6.8	11	10
13	16	11	14	57	49	26	28	9.9	6.5	11	9.8	10
14	e15	12	181	42	58	21	29	9.6	42	8.9	9.2	67
15	13	12	76	25	37	18	56	8.8	38	143	8.2	34
16	13	11	26	25	33	88	33	8.5	15	85	7.9	15
17	99	12	20	23	31	71	24	8.8	18	26	7.1	11
18	231	11	17	27	58	29	49	8.6	30	15	14	15
19	34	11	22	28	36	25	27	9.6	23	11	24	25
20	179	11	24	43	29	50	22	8.6	23	9.0	11	14
21	161	11	20	38	23	72	19	8.6	16	8.6	8.9	12
22	38	13	23	30	22	33	17	43	12	8.8	7.6	18
23	25	12	18	40	21	30	16	15	13	7.5	6.6	175
24	20	12	16	43	20	27	15	13	9.5	101	5.9	62
25	17	13	15	56	20	24	24	11	7.9	72	18	86
26	16	37	15	47	19	20	20	9.8	7.2	40	11	402
27	15	31	15	43	22	29	24	8.7	6.7	17	7.3	80
28	15	18	15	38	37	41	48	8.8	21	13	9.8	63
29	14	15	14	34	29	27	45	15	87	65	10	35
30	14	13	13	95	---	27	31	9.7	20	28	39	16
31	14	---	13	170	---	21	---	8.5	---	86	45	---
TOTAL	1223	464	758	1552	1072	954	803	377.5	538.6	869.0	852.3	2153
MEAN	39.5	15.5	24.5	50.1	37.0	30.8	26.8	12.2	18.0	28.0	27.5	71.8
MAX	231	40	181	277	99	88	56	43	87	143	137	402
MIN	13	11	11	13	19	16	15	8.5	6.5	6.8	5.9	10

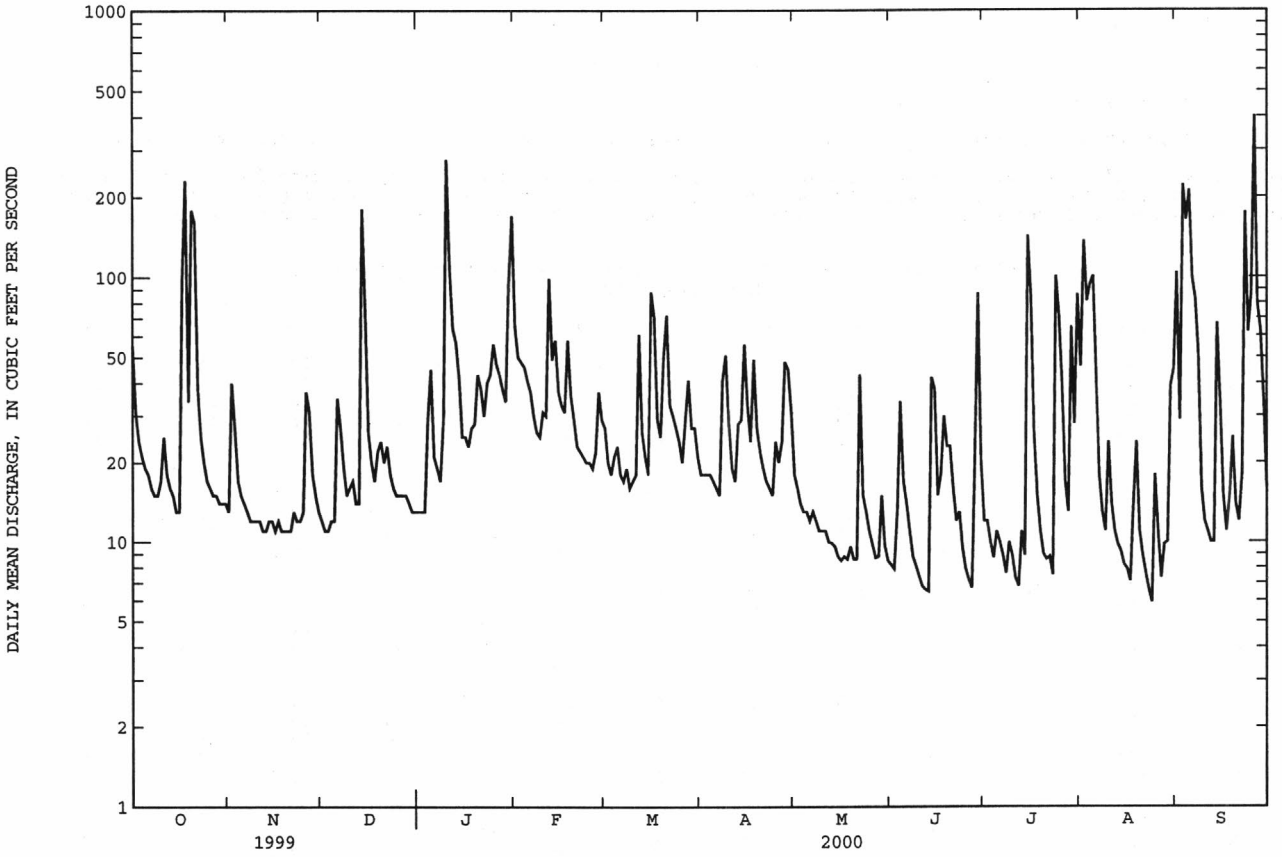
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	30.8	21.6	29.7	65.8	50.7	58.0	36.8	19.6	24.7	30.9	23.5	113
MAX	45.5	26.9	34.1	106	98.0	123	65.2	27.7	45.2	48.6	40.1	263
(WY)	1997	1997	1999	1998	1998	1998	1997	1998	1997	1997	1998	1999
MIN	17.2	15.5	24.5	32.3	21.9	30.8	20.9	12.0	12.9	11.3	8.00	11.0
(WY)	1998	2000	2000	1997	1999	2000	1999	1999	1999	1999	1997	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	16864.5		11616.4			
ANNUAL MEAN	46.2		31.7		40.0	
HIGHEST ANNUAL MEAN					47.7	1998
LOWEST ANNUAL MEAN					31.7	2000
HIGHEST DAILY MEAN	2450	Sep 16	402	Sep 26	3600	Sep 6 1996
LOWEST DAILY MEAN	2.1	Aug 5	5.9	Aug 24	2.1	Aug 5 1999
ANNUAL SEVEN-DAY MINIMUM	2.3	Aug 2	7.9	Jun 7	2.3	Aug 2 1999
INSTANTANEOUS PEAK FLOW			774	Sep 26	6760*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			8.57	Sep 26	17.03*	Sep 6 1996
INSTANTANEOUS LOW FLOW			5.8*	Aug 24	2.0*	Aug 4 1999
10 PERCENT EXCEEDS	63		65		68	
50 PERCENT EXCEEDS	15		18		17	
90 PERCENT EXCEEDS	6.6		8.9		7.4	

e Estimated.
* See REMARKS.

02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC--Continued



02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--July 1996 to current year. Records from July 1996 to September 1998 are unpublished and available in the USGS District Office, Raleigh, NC.

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, 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	.22	.00	.00	.00	.00	.10	.68	.01
2	.00	.59	.00	.00	.04	.00	.00	.00	.00	.00	.19	2.34
3	.00	.00	.00	.00	.01	.00	.03	.00	.50	.01	.23	.40
4	.00	.00	.00	.48	.00	.16	.00	.00	.01	.07	.68	.39
5	.00	.00	.00	.00	.00	.00	.00	.00	.06	.17	.01	.00
6	.00	.00	.41	.00	.00	.00	.00	.00	.01	.01	.00	.00
7	.00	.00	.00	.07	.00	.00	.00	.00	.00	.14	.00	.00
8	.00	.00	.00	.04	.00	.00	.79	.00	.00	.00	.00	.00
9	.00	.00	.00	.31	.00	.00	.00	.00	.00	.08	.00	.00
10	.20	.00	.11	1.02	.00	.00	.00	.01	.00	.00	.32	.00
11	.07	.02	.00	.00	.00	.38	.00	.00	.00	.01	.18	.00
12	.00	.00	.00	.00	.86	.00	.00	.00	.00	.01	.00	.00
13	.09	.01	.14	.00	.01	.00	.46	.00	.00	.24	.45	.02
14	e.00	.00	.95	.00	.35	.00	.21	.00	2.08	.00	.00	1.20
15	.00	.00	.00	.00	.00	.00	.28	.00	.01	1.15	.00	.00
16	.00	.00	.00	.00	.00	1.06	.00	.00	.02	.53	.00	.00
17	1.75	.00	.00	.00	.00	.07	.03	.03	.19	.00	.00	.00
18	.00	.00	.00	.00	.42	.00	.26	.00	.17	.00	.20	.33
19	.00	.00	.20	.22	.00	.00	.03	.00	.03	.00	.04	.27
20	1.15	.00	.06	.34	.00	.87	.00	.00	.01	.00	.00	.00
21	.07	.10	.08	.00	.00	.01	.00	.30	.00	.02	.00	.01
22	.00	.01	.05	.00	.00	.02	.00	.26	.05	.00	.00	.70
23	.00	.00	.00	.19	.00	.00	.00	.00	.01	.00	.00	1.06
24	.00	.00	.00	.39	.00	.00	.16	.00	.00	.93	.00	.00
25	.00	.00	.00	.01	.00	.00	.24	.00	.00	.41	.07	1.74
26	.00	.26	.00	.00	.00	.01	.00	.00	.04	.01	.00	.02
27	.00	.00	.00	.00	.21	.40	.15	.00	.00	.00	.08	.00
28	.00	.00	.00	.00	.02	.01	.51	.36	.59	.00	.03	.00
29	.00	.00	.00	.09	.00	.00	.57	.05	.84	.28	.48	.00
30	.00	.00	.00	1.00	---	.09	.01	.00	.01	.02	.69	.00
31	.00	---	.00	.27	---	.00	---	.00	---	1.02	.22	---
TOTAL	3.33	0.99	2.00	4.43	2.14	3.08	3.73	1.01	4.63	5.21	4.55	8.49

e Estimated.



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

02087500 NEUSE RIVER NEAR CLAYTON, NC

LOCATION.--Lat 35°38'50", long 78°24'22", Johnston County, Hydrologic Unit 03020201, on left bank at downstream side of bridge on State Highway 42, 2.3 mi upstream from Mill Creek, and 3 mi east of Clayton.

DRAINAGE AREA.--1,150 mi^2.

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 1032: 1930, 1935(M). WSP 1333: 1935. WSP 1503: 1949. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 128.41 ft above sea level. Prior to Mar. 18, 1942, at site 1,100 ft upstream at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges which are fair. Flow regulated by Falls Lake (station 02087182), since Dec. 7, 1983. The City of Raleigh diverted an average of 85.6 ft^3/s upstream from station, most of which was returned upstream from station as treated effluent. Prior to regulation, maximum discharge: 22,900 ft^3/s, Sept. 19, 1945; gage height: 22.12 ft; minimum discharge: 44 ft^3/s, Sept. 15, 1932; gage height: 0.28 ft, at site then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1919, reached a stage of 21.15 ft, from floodmark at former site; discharge 21,200 ft^3/s.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3230	4540	456	483	2270	1530	1290	1030	386	381	2980	739
2	2270	4670	452	464	1710	1480	1260	2280	366	389	4130	556
3	3100	4890	452	474	2920	1440	1230	2580	356	329	4060	1440
4	3560	4330	448	523	3360	963	693	2490	912	309	3280	1430
5	3480	2960	445	789	3340	910	537	1340	616	381	3500	2610
6	3740	1910	493	617	3160	869	512	901	493	436	2780	1070
7	4220	1800	669	541	3060	843	503	895	428	344	2320	715
8	5050	1770	514	1150	2970	612	517	879	402	380	2110	863
9	5700	1750	474	1340	2880	583	1050	843	373	302	2030	585
10	5930	1460	466	2660	2850	571	720	824	357	327	2040	441
11	6320	1370	511	3770	3090	558	591	819	349	308	1580	414
12	6350	1340	483	2210	3490	832	574	769	339	339	1180	393
13	6360	912	468	1830	4310	646	562	661	332	377	1190	381
14	6310	832	1480	1650	2810	542	740	614	407	350	1160	390
15	6540	822	1910	1540	1540	488	1470	604	849	935	640	863
16	4360	545	1000	1890	1750	531	1770	589	460	956	434	429
17	1190	466	745	2480	3100	1280	1620	540	381	614	383	371
18	3530	453	1500	2510	3710	723	2160	524	395	523	387	374
19	1470	451	1700	2460	3950	582	1950	436	467	374	414	506
20	1550	452	1750	e1180	3790	623	2810	363	406	344	337	458
21	2520	458	1690	807	3640	1350	3150	380	407	331	649	403
22	1410	464	1690	644	3550	938	3060	652	373	354	473	382
23	963	462	1170	635	3480	2310	3000	608	359	326	318	1030
24	1510	458	783	850	3440	3240	2940	447	333	1360	300	1210
25	2470	460	541	1100	2740	3340	2520	407	314	1390	302	769
26	3280	462	514	1060	1590	3310	2500	377	313	862	336	4040
27	4010	739	518	891	1480	3280	1890	378	306	612	308	1750
28	4440	577	510	834	1660	3540	1550	348	309	812	389	917
29	4530	516	503	758	1610	2960	1480	548	664	2400	389	682
30	4540	482	492	902	---	1590	1610	525	579	3130	452	546
31	4540	---	489	3040	---	1360	---	413	---	2690	679	---
TOTAL	118473	42801	25316	42082	83250	43824	46259	25064	13031	22965	41530	26757
MEAN	3822	1427	817	1357	2871	1414	1542	809	434	741	1340	892
MAX	6540	4890	1910	3770	4310	3540	3150	2580	912	3130	4130	4040
MIN	963	451	445	464	1480	488	503	348	306	302	300	371

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

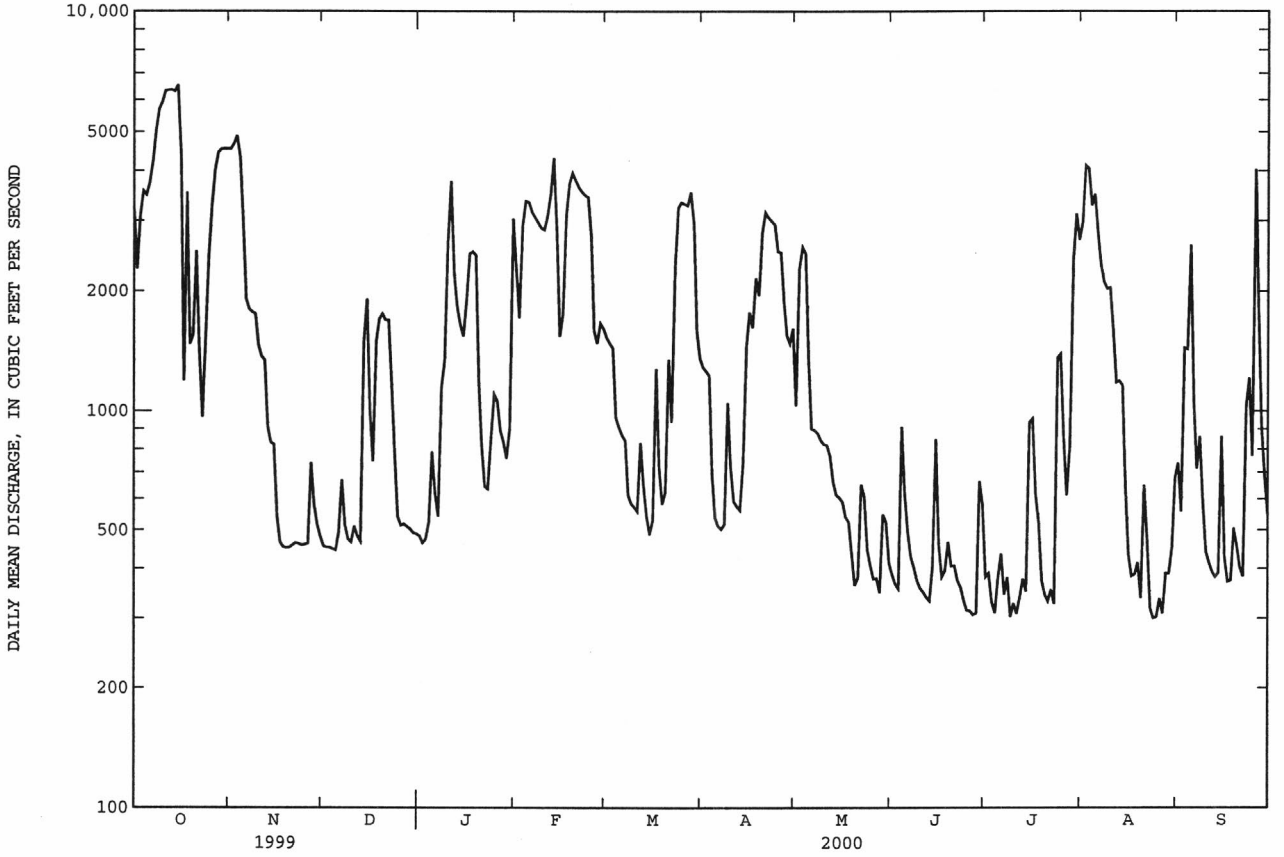
MEAN	751	668	866	1505	1978	2435	1690	938	605	610	605	947
MAX	3822	2201	2013	2821	4961	5688	3426	2864	1211	1841	1539	6620
(WY)	2000	1996	1986	1984	1998	1998	1998	1989	1995	1995	1989	1996
MIN	212	215	237	419	520	483	290	309	267	234	204	136
(WY)	1984	1992	1995	1986	1991	1988	1986	1995	1999	1983	1983	1985

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000*	
ANNUAL TOTAL	513093		531352			
ANNUAL MEAN	1406		1452		1129	
HIGHEST ANNUAL MEAN					1760	1996
LOWEST ANNUAL MEAN					458	1988
HIGHEST DAILY MEAN	19700	Sep 17	6540	Oct 15	19700	Sep 17 1999
LOWEST DAILY MEAN	199	Aug 13	300	Aug 24	105	Sep 16 1985
ANNUAL SEVEN-DAY MINIMUM	237	Jul 4	330	Jun 22	117	Sep 12 1985
INSTANTANEOUS PEAK FLOW			6770	Oct 15	20500	Sep 17 1999
INSTANTANEOUS PEAK STAGE			10.59	Oct 15	20.67	Sep 17 1999
INSTANTANEOUS LOW FLOW			232	Aug 20	78	Sep 18 1985
10 PERCENT EXCEEDS	3560		3480		3270	
50 PERCENT EXCEEDS	552		843		471	
90 PERCENT EXCEEDS	259		374		255	

e Estimated.

* Regulated period only (1983-2000). See REMARKS.

02087500 NEUSE RIVER NEAR CLAYTON, NC--Continued



02087570 NEUSE RIVER AT SMITHFIELD, NC

LOCATION.--Lat 35°30'46", long 78°21'00", Johnston County, Hydrologic Unit 03020201, on left bank 10 ft downstream from bridge on U.S. Highway 70, at Smithfield, 2.1 mi upstream from Swift Creek, and 178 mi upstream from mouth.

DRAINAGE AREA.--1,206 mi^2.

PERIOD OF RECORD.--October 1959 to September 1990, October 1998 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 99.26 ft above sea level. Prior to Dec. 21, 1971, nonrecording gage on upstream side of bridge near center of span at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good.

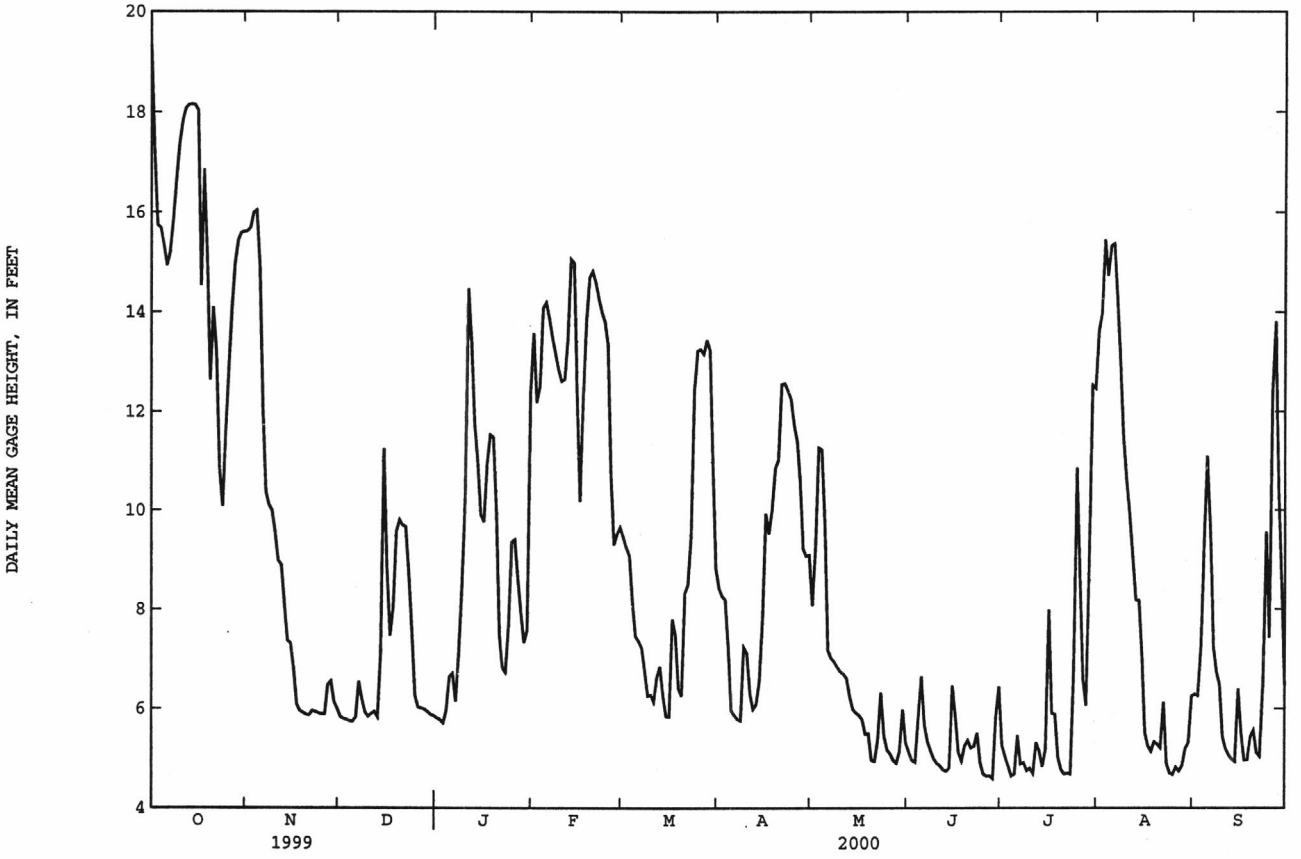
EXTREMES FOR PERIOD OF RECORD.--Maximum, 26.72 ft, Sept. 18, 1999; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum, 20.17 ft, Oct. 1; minimum, 4.50 ft, June 28.

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	19.34	15.62	5.84	5.81	13.57	9.46	8.43	8.08	5.12	5.26	13.63	6.29
2	17.21	15.69	5.80	5.78	12.18	9.25	8.27	9.24	4.96	5.04	13.98	6.26
3	15.74	15.99	5.78	5.71	12.50	9.09	8.20	11.27	4.92	4.85	15.45	7.26
4	15.69	16.04	5.75	5.97	14.08	8.14	7.22	11.23	5.82	4.64	14.73	9.42
5	15.34	14.92	5.74	6.64	14.19	7.46	5.96	9.68	6.65	4.68	15.33	11.10
6	14.93	12.08	5.83	6.71	13.88	7.36	5.87	7.18	5.66	5.46	15.37	9.53
7	15.21	10.37	6.55	6.14	13.48	7.23	5.79	7.02	5.33	4.88	14.23	7.24
8	15.86	10.11	6.20	7.16	13.16	6.76	5.76	6.95	5.15	4.91	12.96	6.74
9	16.66	10.00	5.93	8.52	12.84	6.26	7.24	6.84	4.99	4.75	11.47	6.49
10	17.40	9.55	5.84	10.22	12.61	6.28	7.12	6.75	4.90	4.80	10.60	5.43
11	17.84	8.99	5.90	14.47	12.65	6.14	6.31	6.70	4.85	4.69	9.89	5.19
12	18.08	8.90	5.94	13.38	13.46	6.63	5.99	6.61	4.77	5.32	9.05	5.07
13	18.15	8.11	5.83	11.75	15.06	6.85	6.09	6.25	4.74	5.15	8.19	4.98
14	18.16	7.37	7.11	10.99	14.99	6.26	6.55	5.99	4.81	4.83	8.18	4.93
15	18.15	7.32	11.25	9.91	12.37	5.85	7.80	5.92	6.46	5.18	7.07	6.40
16	18.04	6.81	8.83	9.77	10.18	5.84	9.94	5.87	5.84	7.99	5.52	5.52
17	14.53	6.08	7.47	10.93	12.27	7.80	9.53	5.78	5.12	5.91	5.25	4.96
18	16.86	5.96	8.05	11.53	13.82	7.49	10.02	5.49	4.95	5.89	5.14	4.97
19	15.13	5.92	9.57	11.48	14.70	6.41	10.85	5.50	5.25	5.02	5.33	5.43
20	12.63	5.88	9.81	9.94	14.82	6.26	11.02	4.96	5.36	4.77	5.29	5.56
21	14.10	5.87	9.70	7.48	14.60	8.33	12.55	4.94	5.21	4.68	5.21	5.12
22	13.20	5.96	9.67	6.83	14.27	8.50	12.57	5.38	5.24	4.70	6.13	5.04
23	10.87	5.94	8.74	6.73	14.00	9.48	12.42	6.32	5.51	4.68	4.89	6.46
24	10.08	5.91	7.56	7.65	13.81	12.44	12.25	5.45	4.90	6.77	4.70	9.56
25	11.59	5.89	6.27	9.36	13.34	13.22	11.73	5.17	4.68	10.86	4.67	7.43
26	12.85	5.89	6.03	9.41	10.68	13.25	11.40	5.09	4.64	8.65	4.82	12.39
27	14.07	6.48	6.01	8.60	9.31	13.16	10.55	4.96	4.65	6.59	4.74	13.81
28	14.98	6.55	5.99	7.92	9.52	13.44	9.23	4.90	4.59	6.06	4.85	10.38
29	15.44	6.14	5.94	7.33	9.66	13.23	9.08	5.14	5.82	9.13	5.19	8.42
30	15.59	6.00	5.88	7.58	---	10.91	9.10	5.98	6.44	12.53	5.32	6.48
31	15.61	---	5.86	12.38	---	8.82	---	5.31	---	12.47	6.25	---
TOTAL	479.33	262.34	216.67	274.08	376.00	267.60	264.84	201.95	157.33	191.14	263.43	213.86
MEAN	15.46	8.74	6.99	8.84	12.97	8.63	8.83	6.51	5.24	6.17	8.50	7.13
MAX	19.34	16.04	11.25	14.47	15.06	13.44	12.57	11.27	6.65	12.53	15.45	13.81
MIN	10.08	5.87	5.74	5.71	9.31	5.84	5.76	4.90	4.59	4.64	4.67	4.93

02087570 NEUSE RIVER AT SMITHFIELD, NC--Continued



0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC

LOCATION.--Lat 35°41'33", long 78°41'34", Wake County, Hydrologic Unit 03020201, 0.1 mi downstream of Secondary Road 1375, 0.1 mi downstream of Lake Wheeler, and 2.0 mi north of McCullars Crossroads.

DRAINAGE AREA.--35.8 mi^2.

PERIOD OF RECORD.--December 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 251.46 ft above sea level. Satellite telemetry at station.

REMARKS.--Records fair. Some regulation by Lake Wheeler (station 02087588). Maximum gage height for period of record from floodmarks. Minimum discharge for period of record, no flow, also occurred June 28, 29, 1993.

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

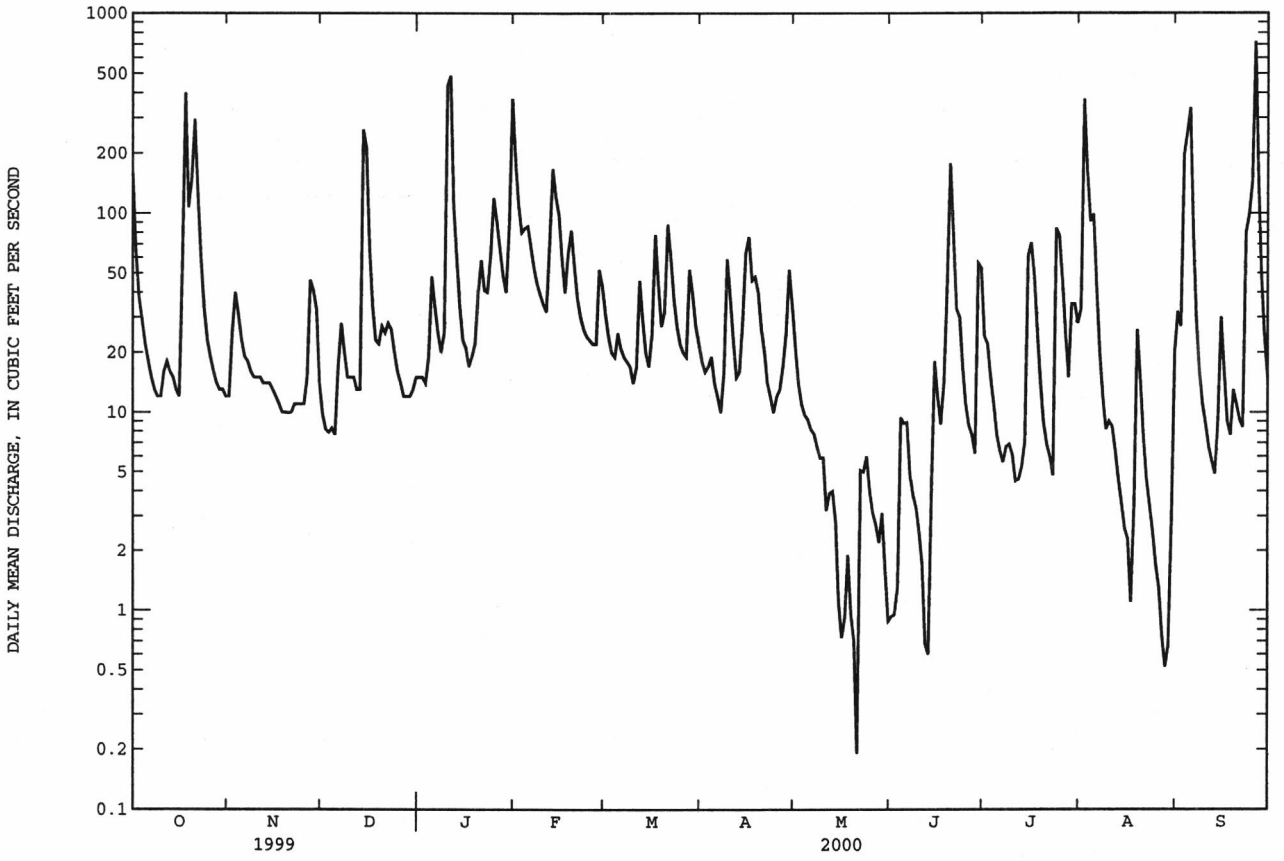
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	12	9.8	15	186	31	18	21	.93	24	33	32
2	65	25	8.2	15	110	24	16	14	.95	22	373	27
3	38	40	7.9	14	80	20	17	11	1.3	15	163	197
4	29	31	8.3	19	84	19	19	9.7	9.4	11	91	255
5	22	23	7.7	48	86	25	14	9.2	8.8	7.7	99	337
6	18	19	17	34	67	21	12	8.2	8.9	6.4	42	77
7	15	18	28	25	53	19	10	7.8	4.8	5.6	20	29
8	13	16	20	20	44	18	16	6.7	3.8	6.7	12	16
9	12	15	15	25	39	17	59	5.9	3.3	6.9	8.2	11
10	12	15	15	437	35	14	38	5.9	2.5	6.1	9.0	8.7
11	16	15	15	488	32	17	23	3.2	1.7	4.5	8.5	6.7
12	18	14	13	109	72	46	15	3.9	.68	4.6	6.4	5.7
13	16	14	13	59	167	29	16	4.0	.60	5.3	4.6	4.9
14	15	14	262	34	121	20	29	2.8	4.3	7.1	3.5	9.1
15	13	13	212	23	98	17	64	1.1	18	61	2.6	30
16	12	12	68	21	59	25	76	.73	12	71	2.3	16
17	57	11	34	17	40	78	46	.91	8.7	49	1.1	9.0
18	400	10	23	19	63	44	48	1.9	14	25	3.3	7.7
19	107	10	22	22	82	27	40	.96	43	14	26	13
20	148	9.9	27	40	54	32	26	.70	177	8.9	15	11
21	295	10	25	58	37	88	20	.19	79	6.9	7.5	9.2
22	123	11	28	41	30	60	14	5.1	33	6.0	4.6	8.4
23	58	11	26	40	26	37	12	5.0	30	4.8	3.4	80
24	33	11	20	62	24	27	10	6.0	17	84	2.5	98
25	23	11	16	119	23	22	12	4.0	11	77	1.7	141
26	19	15	14	91	22	20	13	3.1	8.6	46	1.3	723
27	16	46	12	66	22	19	17	2.7	7.7	25	.75	150
28	14	41	12	49	52	52	25	2.2	6.2	15	.52	49
29	13	33	12	40	43	39	52	3.1	56	35	.66	24
30	13	14	13	87	---	27	34	1.6	53	35	2.8	15
31	12	---	15	374	---	22	---	.88	---	28	20	---
TOTAL	1802	539.9	1018.9	2511	1851	956	811	153.47	626.16	724.5	969.23	2400.4
MEAN	58.1	18.0	32.9	81.0	63.8	30.8	27.0	4.95	20.9	23.4	31.3	80.0
MAX	400	46	262	488	186	88	76	21	177	84	373	723
MIN	12	9.9	7.7	14	22	14	10	.19	.60	4.5	.52	4.9
CFSM	1.62	.50	.92	2.26	1.78	.86	.76	.14	.58	.65	.87	2.24
IN.	1.87	.56	1.06	2.61	1.92	.99	.84	.16	.65	.75	1.01	2.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	27.0	27.3	24.1	67.4	59.6	70.9	36.9	24.2	25.7	16.3	18.1	52.2
MAX	106	69.4	50.9	183	159	183	90.5	75.7	65.8	51.5	81.4	323
(WY)	1996	1996	1990	1998	1998	1998	1993	1989	1992	1989	1989	1999
MIN	4.38	3.16	7.81	19.7	14.4	15.1	10.7	4.95	.19	1.16	.61	.11
(WY)	1992	1992	1989	1989	1991	1988	1995	2000	1999	1988	1997	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	19489.27		14363.56			
ANNUAL MEAN	53.4		39.2		38.7	
HIGHEST ANNUAL MEAN					61.9	1998
LOWEST ANNUAL MEAN					18.4	1992
HIGHEST DAILY MEAN	2500	Sep 16	723	Sep 26	2700	Sep 6 1996
LOWEST DAILY MEAN	.02	Aug 4	.19	May 21	.01	Jun 28 1993
ANNUAL SEVEN-DAY MINIMUM	.03	Aug 3	.93	May 15	.03	Aug 3 1999
INSTANTANEOUS PEAK FLOW			978	Jan 10	6790	Sep 6 1996
INSTANTANEOUS PEAK STAGE			9.77	Jan 10	14.15	Sep 6 1996
INSTANTANEOUS LOW FLOW			.13	May 21	.00	Jun 27 1993
ANNUAL RUNOFF (CFSM)	1.49		1.10		1.08	
ANNUAL RUNOFF (INCHES)	20.25		14.93		14.67	
10 PERCENT EXCEEDS	72		83		77	
50 PERCENT EXCEEDS	13		18		14	
90 PERCENT EXCEEDS	.12		3.7		.41	

0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC--Continued



02088000 MIDDLE CREEK NEAR CLAYTON, NC

LOCATION.--Lat 35°34'10", long 78°35'30", Johnston County, Hydrologic Unit 03020201, on left bank 800 ft downstream of bridge on State Highway 50, 0.5 mi upstream from Buffalo Branch, 3.7 mi downstream of Wake-Johnston County line, and 9.5 mi southwest of Clayton.

DRAINAGE AREA.--83.5 mi^2.

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

REVISED RECORDS.--WSP 952: 1940(M), 1941. WSP 1233: 1943(M), 1945, 1949. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 184.53 ft above sea level. Nov. 1-20, 1939, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 10,000 ft^3/s, by logarithmic plotting; maximum gage height for period of record, 14.88 ft, from high-water mark in gage well. Minimum discharge for period of record, no flow, also occurred Oct. 12-13, 1954, and July 13-28, 1986. Maximum discharge, 1,190 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 28, 1999. Maximum peak discharge, 1,110 ft^3/s, Aug. 3, gage height, 7.96 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	988	63	46	50	699	105	78	67	19	68	358	66
2	584	77	46	48	510	93	74	56	18	41	284	67
3	198	135	45	49	306	85	73	49	19	32	548	186
4	140	89	45	52	262	78	70	46	94	23	722	343
5	122	67	45	118	253	81	70	42	68	19	893	467
6	108	63	53	105	205	79	62	39	42	21	537	488
7	95	62	91	71	167	72	59	36	32	27	128	109
8	84	58	72	68	146	67	61	33	22	24	79	69
9	81	57	57	76	131	67	171	30	19	23	63	56
10	77	55	52	292	123	66	127	26	16	19	53	47
11	88	55	57	679	116	65	78	29	14	17	53	42
12	96	54	54	797	165	130	66	23	14	44	47	37
13	90	54	52	223	378	125	65	23	13	63	43	34
14	96	54	145	123	444	78	88	23	12	47	59	32
15	87	55	335	93	358	68	127	22	29	39	48	30
16	76	51	233	87	213	112	172	19	26	38	37	29
17	180	46	92	82	152	331	110	18	18	39	32	25
18	662	44	72	79	199	234	129	20	15	61	28	24
19	693	44	69	84	314	113	133	20	59	34	43	36
20	346	45	82	110	211	113	89	18	164	23	48	40
21	442	47	83	192	148	281	74	19	190	19	34	33
22	592	49	75	130	123	207	66	32	84	17	28	30
23	324	58	73	113	112	128	59	55	58	17	25	180
24	138	58	66	200	106	103	54	35	38	57	22	341
25	104	56	61	344	99	94	57	26	27	100	20	153
26	96	57	56	386	95	87	67	21	21	73	18	416
27	88	76	55	241	92	84	68	18	35	59	18	644
28	78	79	54	165	149	157	79	18	30	41	24	256
29	70	60	52	139	161	135	114	25	53	71	25	92
30	67	51	50	183	---	93	89	25	155	72	27	72
31	64	---	50	508	---	86	---	21	---	118	54	---
TOTAL	6954	1819	2418	5887	6437	3617	2629	934	1404	1346	4398	4444
MEAN	224	60.6	78.0	190	222	117	87.6	30.1	46.8	43.4	142	148
MAX	988	135	335	797	699	331	172	67	190	118	893	644
MIN	64	44	45	48	92	65	54	18	12	17	18	24
CFSM	2.69	.73	.93	2.27	2.66	1.40	1.05	.36	.56	.52	1.70	1.77
IN.	3.10	.81	1.08	2.62	2.87	1.61	1.17	.42	.63	.60	1.96	1.98

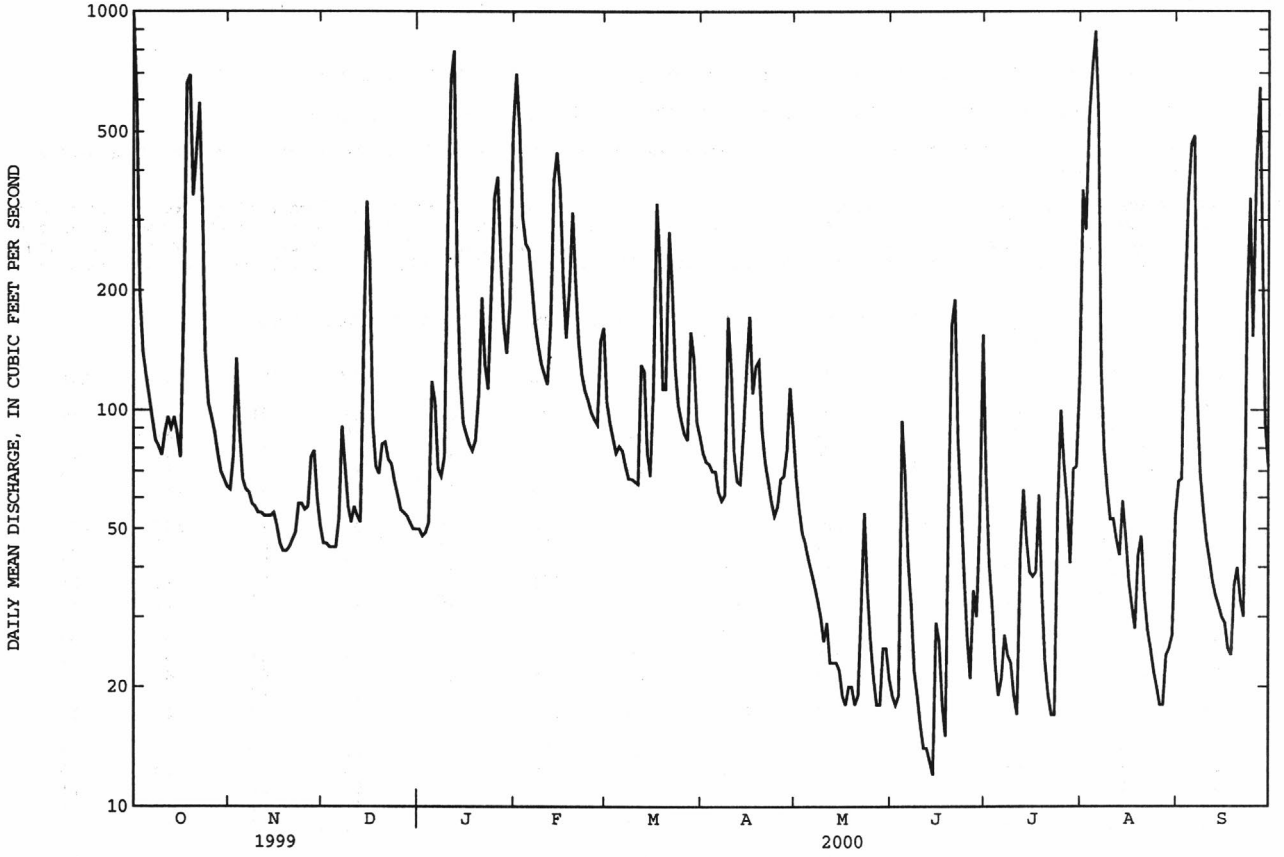
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	53.0	64.8	85.1	140	167	169	115	71.8	52.6	54.0	56.9	63.1
MAX	275	230	254	378	450	439	319	330	203	472	340	601
(WY)	1960	1996	1973	1998	1973	1998	1959	1958	1992	1965	1949	1999
MIN	.77	4.67	19.7	31.6	46.2	45.1	16.1	11.4	2.15	.23	1.75	.50
(WY)	1987	1974	1952	1942	1941	1981	1986	1981	1986	1986	1983	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	44247.4		42287			
ANNUAL MEAN	121		116		90.7	
HIGHEST ANNUAL MEAN					161	1965
LOWEST ANNUAL MEAN					30.0	1981
HIGHEST DAILY MEAN	3490	Sep 16	988	Oct 1	6260	Sep 6 1996
LOWEST DAILY MEAN	4.2	Aug 8	12	Jun 14	.00	Oct 11 1954
ANNUAL SEVEN-DAY MINIMUM	4.8	Aug 3	16	Jun 8	.00	Jul 13 1986
INSTANTANEOUS PEAK FLOW			1110*	Aug 3	11900*	Sep 6 1996
INSTANTANEOUS PEAK STAGE			7.96*	Aug 3	14.88*	Sep 6 1996
INSTANTANEOUS LOW FLOW			10	Jun 14	.00*	Oct 11 1954
ANNUAL RUNOFF (CFSM)	1.45		1.38		1.09	
ANNUAL RUNOFF (INCHES)	19.71		18.84		14.76	
10 PERCENT EXCEEDS	182		268		200	
50 PERCENT EXCEEDS	54		68		46	
90 PERCENT EXCEEDS	9.1		23		7.6	

* See REMARKS.

02088000 MIDDLE CREEK NEAR CLAYTON, NC--Continued



02088500 LITTLE RIVER NEAR PRINCETON, NC

LOCATION.--Lat 35°30'40", long 78°09'38", Johnston County, Hydrologic Unit 03020201, on left bank 600 ft downstream of bridge on Secondary Road 2320, 0.8 mi upstream from Little Creek, and 3 mi north of Princeton.

DRAINAGE AREA.--232 mi^2.

PERIOD OF RECORD.--February 1930 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORD.--WSP 1233: 1935(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 107.75 ft above sea level. Prior to Nov. 17, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Slight fluctuation and occasional regulation for short periods is caused by mills upstream from station. Minimum discharge for period of record occurred frequently in June 1986 due to regulation from unknown source. Maximum discharge for period of record, from rating curve extended above 9,000 ft^3/s, by logarithmic plotting. Maximum discharge, 3,420 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 17, 1999; maximum peak discharge 3,080 ft^3/s, Oct. 19, gage height, 12.24 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	3420	181	142	133	1540	321	283	363	61	89	923	289
2	2960	294	128	127	1480	299	254	345	58	86	1220	169
3	2220	533	117	129	1340	277	222	324	59	75	890	161
4	1530	524	112	140	1200	258	210	258	53	58	639	456
5	927	443	108	166	998	245	194	142	45	48	805	656
6	554	379	115	230	800	241	172	110	43	92	850	670
7	360	333	158	257	684	234	159	97	43	100	708	665
8	259	276	186	242	606	218	152	86	58	83	552	567
9	204	233	169	244	531	206	250	74	48	56	416	509
10	169	205	151	400	470	199	338	66	38	41	305	320
11	153	179	150	792	430	189	290	58	31	34	194	163
12	150	163	144	964	492	201	253	51	25	53	169	131
13	147	155	140	879	827	202	229	46	22	47	202	110
14	164	154	198	750	1020	188	277	40	21	36	204	97
15	145	154	448	533	996	185	370	36	24	30	139	87
16	130	146	555	358	883	191	478	31	20	50	108	78
17	435	135	514	293	737	215	422	29	72	152	139	72
18	2460	124	426	265	627	235	390	27	125	134	112	76
19	3000	117	321	259	653	293	465	26	124	98	130	115
20	2480	116	279	289	650	299	383	24	106	76	107	124
21	1950	117	269	387	569	411	292	22	89	62	84	109
22	1750	246	260	395	493	510	235	21	82	54	71	98
23	1690	313	255	374	427	481	198	22	92	50	64	338
24	1450	264	236	529	377	428	168	32	56	209	62	804
25	1070	223	211	1090	344	357	159	33	44	560	64	748
26	705	210	186	1320	324	294	214	37	38	697	73	1210
27	484	201	170	1120	309	267	246	39	32	600	65	1530
28	355	194	162	801	328	326	234	37	27	517	88	1300
29	277	184	154	e620	342	354	337	37	39	435	80	940
30	232	159	146	606	---	356	398	41	61	358	165	719
31	202	---	138	1140	---	325	---	84	---	562	377	---
TOTAL	32032	6955	6748	15832	20477	8805	8272	2638	1636	5542	10005	13311
MEAN	1033	232	218	511	706	284	276	85.1	54.5	179	323	444
MAX	3420	533	555	1320	1540	510	478	363	125	697	1220	1530
MIN	130	116	108	127	309	185	152	21	20	30	62	72
CFSM	4.45	1.00	.94	2.20	3.04	1.22	1.19	.37	.24	.77	1.39	1.91
IN.	5.14	1.12	1.08	2.54	3.28	1.41	1.33	.42	.26	.89	1.60	2.13

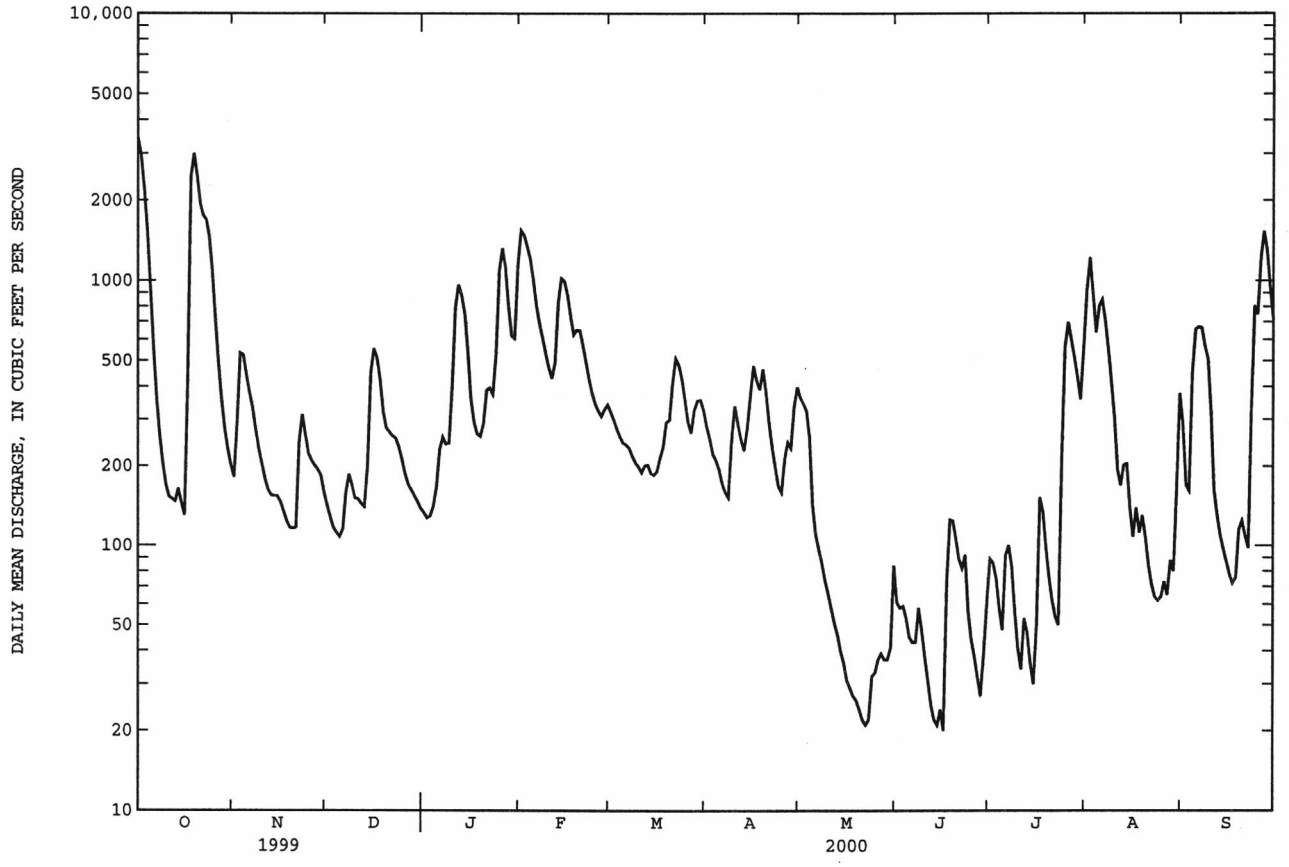
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

MEAN	148	147	230	396	478	479	323	187	149	177	180	184
MAX	1202	645	717	999	1285	1204	969	835	698	826	783	2861
(WY)	1965	1948	1937	1954	1948	1989	1959	1989	1995	1959	1931	1999
MIN	6.00	13.0	16.0	24.1	49.6	120	53.3	17.3	10.9	12.4	4.10	2.84
(WY)	1934	1934	1934	1934	1934	1981	1986	1986	1999	1999	1993	1980

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000	
ANNUAL TOTAL	169406.08		132253			
ANNUAL MEAN	464		361		257	
HIGHEST ANNUAL MEAN					511	1960
LOWEST ANNUAL MEAN					91.8	1951
HIGHEST DAILY MEAN	17600	Sep 17	3420	Oct 1	17600	Sep 17 1999
LOWEST DAILY MEAN	.23	Aug 8	20	Jun 16	.08	Jun 16 1986
ANNUAL SEVEN-DAY MINIMUM	2.1	Aug 7	24	May 17	.36	Aug 29 1993
INSTANTANEOUS PEAK FLOW			3080*	Oct 19	20700	Sep 17 1999
INSTANTANEOUS PEAK STAGE			12.24*	Oct 19	16.58	Sep 17 1999
INSTANTANEOUS LOW FLOW			18	Jun 16	.08*	Jun 1 1986
ANNUAL RUNOFF (CFSM)	2.00		1.56		1.11	
ANNUAL RUNOFF (INCHES)	27.16		21.21		15.07	
10 PERCENT EXCEEDS	863		812		633	
50 PERCENT EXCEEDS	145		210		118	
90 PERCENT EXCEEDS	8.0		46		20	

e Estimated.
* See REMARKS.

02088500 LITTLE RIVER NEAR PRINCETON, NC--Continued



02089000 NEUSE RIVER NEAR GOLDSBORO, NC

LOCATION.--Lat 35°20'14", long 77°59'51", Wayne County, Hydrologic Unit 03020202, on left bank at downstream side of bridge on Secondary Road 1915, 0.2 mi upstream from Stony Creek, 1.5 mi downstream of Seaboard Coast Line Railroad bridge, 3.2 mi south of Wayne County courthouse in Goldsboro, 4.3 mi downstream of Little River, and 135 mi upstream from mouth.

DRAINAGE AREA.--2,399 mi^2.

PERIOD OF RECORD.--February 1930 to current year.

REVISED RECORDS.--WSP 1333: 1931, 1935. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 42.95 ft above sea level. Prior to July 24, 1931, nonrecording gage at railroad bridge 1.5 mi upstream at 44.95 ft. July 24, 1931, to Aug. 31, 1948, water-stage recorder at site 2.3 mi upstream at 44.66 ft. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 30,700 ft^3/s, Sept. 27, 1945; gage height: 26.72 ft at site and datum then in use; minimum discharge: 76 ft^3/s, Sept. 26, 1968. Minimum discharge during regulation also occurred Oct. 3, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1866 and July 1919, reached stages of about 29 and 28 ft, respectively, at site 2.3 mi upstream at present datum, from flood profiles of U.S. Army Corps of Engineers. Flood of Oct. 5, 1929, reached a stage of 27.3 ft at railroad bridge at present datum; discharge, 38,600 ft^3/s.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15800	5680	1690	1440	5880	3670	4270	2890	837	e1400	4450	1410
2	17800	5940	1610	1410	6410	3430	3060	2750	753	e1360	4860	1640
3	19500	6620	1500	1400	6950	3220	2540	2450	703	1170	5210	1830
4	19700	6850	1440	1580	7340	3010	2290	2930	826	1000	5670	2250
5	18300	6960	1400	1700	7450	2740	2060	3140	855	875	6240	3340
6	16300	6950	1380	1720	7350	2330	1590	3000	1280	e820	6470	3900
7	14400	6840	1370	1920	7150	2150	1390	1950	1160	e800	6640	4320
8	12600	6640	1480	1860	6920	2060	1320	1490	970	815	6960	4010
9	10800	6220	1620	1850	6680	1930	1360	1350	858	703	7290	3200
10	9160	4960	1550	2410	6400	1720	1600	1280	777	686	7360	2530
11	8060	3970	1480	3070	6070	1620	2050	1210	690	627	7090	1860
12	7360	3400	1440	3920	5810	1740	1900	1160	627	746	6480	1380
13	6980	2980	1430	4580	5940	1710	1660	1110	584	829	4840	1160
14	6960	2740	1440	5020	6190	1860	1590	1040	568	e774	3280	1010
15	7170	2360	1610	5280	6690	1770	1800	946	617	e914	2490	924
16	7460	2160	2880	5310	7170	1670	2200	890	690	865	2030	974
17	8710	2040	3350	4860	7570	1920	2990	881	929	e1300	1500	1140
18	10800	1790	3150	4100	7630	2070	3440	872	754	e1250	1170	1110
19	12500	1640	2790	3800	7230	2570	3450	809	725	1080	1160	1180
20	14200	1580	2930	3830	6680	2430	3650	779	846	940	1120	1180
21	15500	1550	3050	3850	6310	2470	3720	715	1050	776	1060	1250
22	15700	1630	3110	3340	6220	2830	3750	662	1120	701	928	1240
23	14800	1700	3070	2850	6230	3510	3830	650	1290	653	1020	1800
24	13600	1760	2960	2930	6180	3650	3830	818	1390	687	896	2710
25	12300	1730	2540	4600	6060	3960	3890	859	1190	1100	757	4170
26	11000	1700	2040	5420	5880	4180	4010	747	909	2900	728	5000
27	9540	1690	1720	6180	5630	4250	3900	687	753	3460	713	5410
28	8200	1710	1620	6640	5180	4330	3750	674	675	3210	769	6030
29	7120	1830	1550	6500	4060	4450	3360	791	e860	2520	780	6650
30	6260	1760	1520	5890	---	4520	2980	698	e1100	2420	931	7020
31	5810	---	1480	5660	---	4540	---	785	---	3530	1170	---
TOTAL	364390	105380	62200	114920	187260	88310	83230	41013	26386	40911	102062	81628
MEAN	11750	3513	2006	3707	6457	2849	2774	1323	880	1320	3292	2721
MAX	19700	6960	3350	6640	7630	4540	4270	3140	1390	3530	7360	7020
MIN	5810	1550	1370	1400	4060	1620	1320	650	568	627	713	924

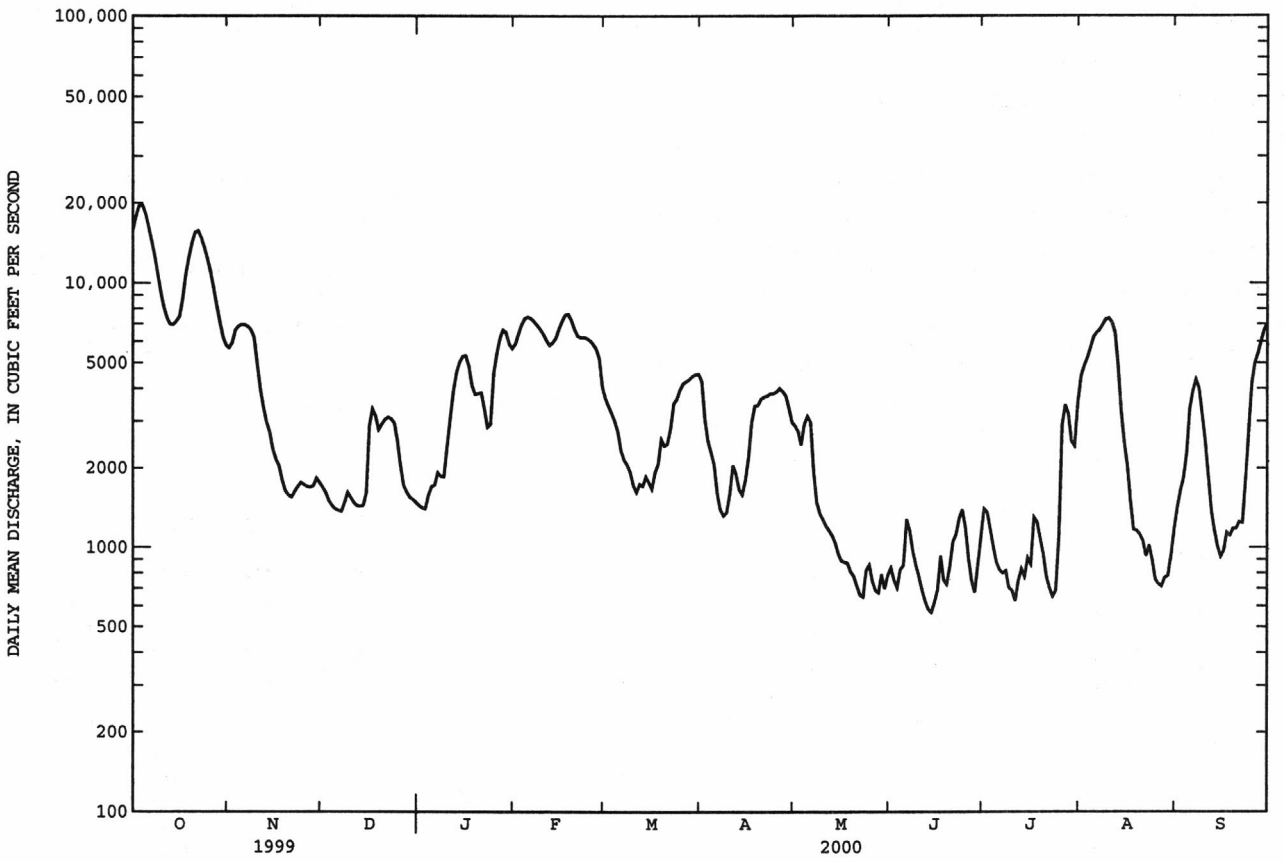
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000*, BY WATER YEAR (WY)

MEAN	2039	1495	2043	3571	4469	5326	3881	2060	1468	1395	1449	2421
MAX	11750	5287	4546	6644	12080	11400	7850	7276	5530	4668	3601	14650
(WY)	2000	1996	1997	1993	1998	1998	1989	1989	1995	1989	1989	1999
MIN	310	326	622	884	1518	1575	631	433	342	394	264	246
(WY)	1984	1988	1988	1986	1986	1988	1986	1986	1986	1987	1983	1985

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000*	
ANNUAL TOTAL	1421199		1297690			
ANNUAL MEAN	3894		3546		2745	
HIGHEST ANNUAL MEAN					3869	1996
LOWEST ANNUAL MEAN					1042	1988
HIGHEST DAILY MEAN	38200	Sep 20	19700	Oct 4	38200	Sep 20 1999
LOWEST DAILY MEAN	295	Jun 9	568	Jun 14	162	Sep 10 1983
ANNUAL SEVEN-DAY MINIMUM	327	Jun 4	650	Jun 10	172	Sep 15 1985
INSTANTANEOUS PEAK FLOW			19900	Oct 4	38500	Sep 20 1999
INSTANTANEOUS PEAK STAGE			23.47	Oct 4	28.85	Sep 20 1999
INSTANTANEOUS LOW FLOW			543	Jun 14	157*	Sep 19 1985
10 PERCENT EXCEEDS	9040		7130		6950	
50 PERCENT EXCEEDS	1700		2310		1340	
90 PERCENT EXCEEDS	419		789		401	

e Estimated.
* Regulated period only (1983-2000). See REMARKS.

02089000 NEUSE RIVER NEAR GOLDSBORO, NC--Continued



0208925200 BEAR CREEK AT MAYS STORE, NC

LOCATION.--Lat 35°16'28", long 77°47'40", Lenoir County, Hydrologic Unit 03020202, at downstream side of bridge on Secondary Road 1326, 0.7 mi west of Mays Store, and 1.0 mi downstream of Secondary Road 1002.

DRAINAGE AREA.--57.7 mi^2.

ERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map. Satellite telemetry at site.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating extension above 3,000 ft^3/s on basis of slope conveyance of peak flow. Maximum gage height for period of record from floodmark. Minimum discharge for current water year also occurred Aug. 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	e807	142	59	37	284	82	68	80	30	30	47	76
2	447	202	57	38	213	81	66	72	27	25	36	60
3	342	277	55	37	179	78	62	65	25	22	28	55
4	309	189	54	37	155	77	58	57	27	20	28	83
5	278	158	53	47	140	76	54	51	39	20	43	177
6	253	139	54	44	130	75	50	47	64	26	36	124
7	236	131	54	43	118	73	46	40	50	24	31	88
8	225	121	50	42	110	72	43	42	36	22	29	67
9	216	115	48	43	108	72	55	36	31	20	28	55
10	208	112	48	75	103	71	48	30	28	20	28	48
11	204	98	47	105	97	70	43	28	25	19	28	43
12	189	93	44	80	126	103	40	26	24	38	30	39
13	178	91	44	68	224	97	39	25	24	31	29	37
14	185	89	52	58	220	87	40	24	24	26	31	35
15	160	87	52	51	222	81	81	24	51	25	30	35
16	143	85	47	49	174	84	98	23	45	23	29	33
17	294	81	44	47	146	187	80	22	32	21	36	32
18	974	79	42	45	130	142	135	22	28	19	37	45
19	1000	77	47	47	126	117	114	21	27	19	41	74
20	535	77	54	55	116	111	88	21	32	19	24	61
21	407	76	51	62	106	186	75	23	30	20	22	51
22	337	75	50	55	101	164	67	23	35	23	18	49
23	288	74	48	70	96	135	58	25	99	21	17	182
24	252	72	46	137	94	117	52	25	61	21	18	313
25	234	71	43	357	91	103	76	24	39	25	21	169
26	217	71	41	314	89	95	150	22	28	44	22	296
27	200	74	41	227	87	90	107	21	25	34	22	187
28	188	70	40	181	88	95	101	34	23	27	31	120
29	172	66	39	151	85	84	105	48	41	26	47	97
30	157	63	38	172	---	77	92	37	36	26	76	83
31	147	---	38	403	---	74	---	32	---	39	99	---
TOTAL	9782	3155	1480	3177	3958	3056	2191	1070	1086	775	1042	2814
MEAN	316	105	47.7	102	136	98.6	73.0	34.5	36.2	25.0	33.6	93.8
MAX	1000	277	59	403	284	187	150	80	99	44	99	313
MIN	143	63	38	37	85	70	39	21	23	19	17	32
CFSM	5.47	1.82	.83	1.78	2.37	1.71	1.27	.60	.63	.43	.58	1.63
IN.	6.31	2.03	.95	2.05	2.55	1.97	1.41	.69	.70	.50	.67	1.81

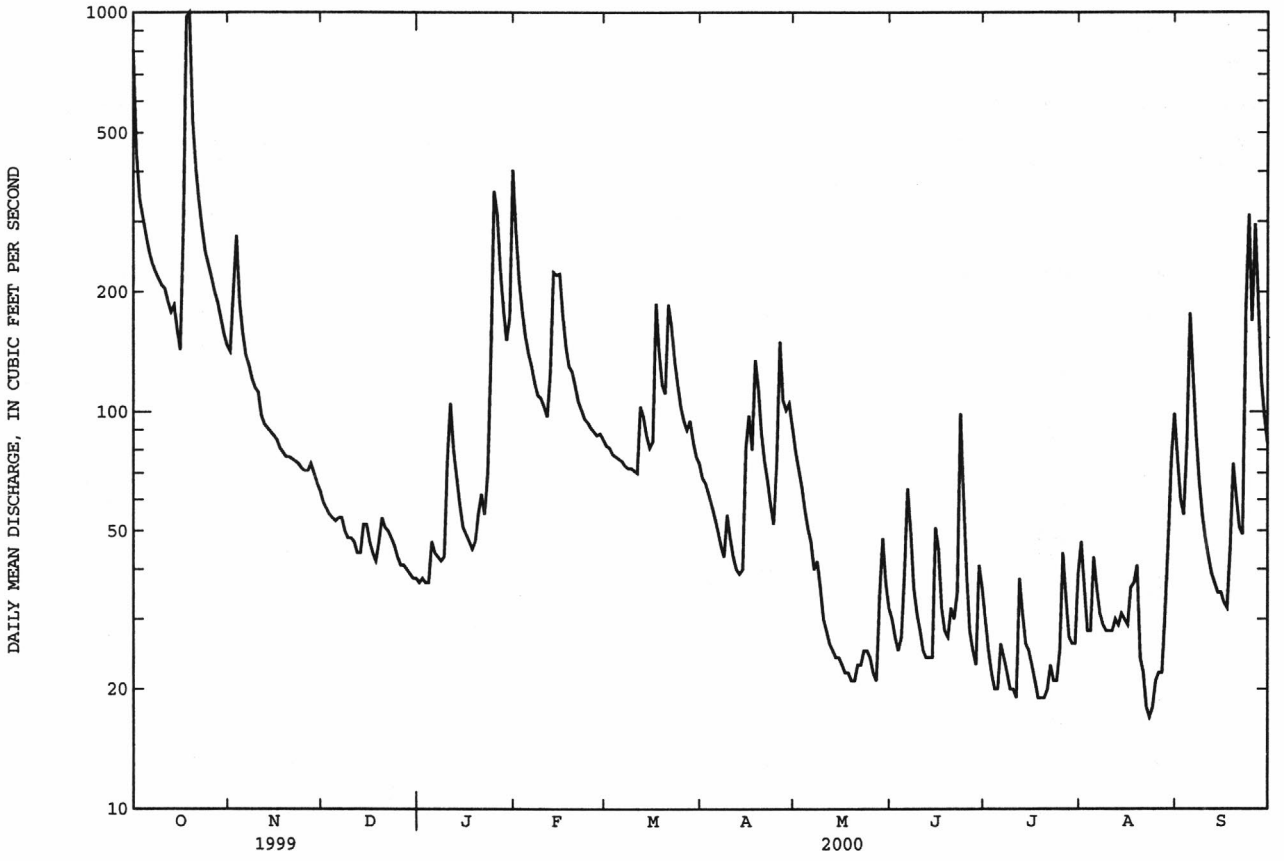
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)

MEAN	70.1	50.3	57.8	108	93.2	105	74.4	60.2	55.6	44.1	58.9	162
MAX	316	119	133	266	306	230	204	216	201	98.5	231	1401
(WY)	2000	1993	1993	1993	1998	1998	1998	1989	1995	1989	1992	1999
MIN	17.2	15.8	21.5	29.0	45.0	35.3	26.5	19.8	13.2	12.5	12.8	17.6
(WY)	1995	1995	1995	1995	1988	1988	1995	1994	1994	1993	1993	1994

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000	
ANNUAL TOTAL	72678		33586			
ANNUAL MEAN	199		91.8		78.1	
HIGHEST ANNUAL MEAN					169	1999
LOWEST ANNUAL MEAN					31.7	1988
HIGHEST DAILY MEAN	8000	Sep 16	1000	Oct 19	8000	Sep 16 1999
LOWEST DAILY MEAN	15	Jun 10	17	Aug 23	8.4	Aug 18 1997
ANNUAL SEVEN-DAY MINIMUM	15	Jun 8	20	Aug 21	9.2	Aug 12 1997
INSTANTANEOUS PEAK FLOW			1110	Oct 19	11000*	Sep 16 1999
INSTANTANEOUS PEAK STAGE			9.41	Oct 19	16.04*	Sep 16 1999
INSTANTANEOUS LOW FLOW			17*	Aug 22	7.7	Aug 18 1997
ANNUAL RUNOFF (CFSM)	3.45		1.59		1.35	
ANNUAL RUNOFF (INCHES)	46.86		21.65		18.39	
10 PERCENT EXCEEDS	277		189		151	
50 PERCENT EXCEEDS	58		56		41	
90 PERCENT EXCEEDS	23		24		17	

e Estimated.
* See REMARKS.

0208925200 BEAR CREEK AT MAYS STORE, NC--Continued



02089500 NEUSE RIVER AT KINSTON, NC

LOCATION.--Lat 35°15'29", long 77°35'09", Lenoir County, Hydrologic Unit 03020202, on left bank at Kinston, 600 ft downstream of bridge on State Highway 11, and 90 mi upstream from mouth.

DRAINAGE AREA.--2,692 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.90 ft above sea level. Prior to Nov. 25, 1934, nonrecording gage at highway bridge 1 mi downstream at 10.10 ft. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 26,000 ft^3/s, Oct. 13, 1964; gage height: 22.86 ft, at site and datum then in use; minimum discharge: 124 ft^3/s, Sept. 26, 1932, at site then in use. Maximum discharge for current water year 25,100 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 22, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1919 reached a stage of 25.0 ft, at present site and datum; discharge, about 39,000 ft^3/s, from information provided by North Carolina State Highway Commission. Flood in October 1924 reached a stage of 24.7 ft, at present site and datum; discharge, 36,000 ft^3/s, from information provided by North Carolina State Highway Commission. Flood of Sept. 25-26, 1928, reached a stage of 24.2 ft, at present site and datum; discharge, 34,000 ft^3/s.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23800	8300	2200	1770	7170	5840	4830	4120	915	1150	3040	1970
2	21100	7570	2100	1710	7050	5260	4830	3720	979	1370	3570	1860
3	19000	7220	2010	1670	6860	4610	4590	3440	918	1440	3990	1990
4	18100	7150	1940	1650	6830	4120	3660	3110	867	1310	4380	2260
5	18100	7240	1860	1770	6990	3750	3140	3080	984	1150	4780	3440
6	18500	7350	1800	1930	7250	3440	2660	3260	1080	1050	5180	3970
7	18600	7440	1780	1980	7460	3050	2200	3330	1290	982	5560	4350
8	18100	7470	1740	2130	7520	2710	1850	2730	1360	924	5900	4540
9	17100	7440	1780	2190	7440	2530	1780	2020	1190	917	6180	4630
10	15600	7330	1920	2220	7290	2380	1770	1730	1060	842	6430	4440
11	13800	7080	1910	2630	7090	2190	1850	1570	955	788	6680	3650
12	12300	6590	1830	3130	e6800	2060	2190	1460	864	811	6880	2720
13	10600	5770	1770	3560	e6900	2150	2260	1380	788	901	6960	1970
14	9580	4870	1780	3980	e6980	2120	2100	1320	737	940	6810	1600
15	8760	4150	1830	4380	7020	2160	2120	1230	712	1100	6260	1370
16	8210	3530	1920	4780	7050	2170	2490	1130	816	1140	4800	1220
17	8450	3030	2630	5100	7150	3490	2740	1050	783	1030	e3900	1160
18	10500	2750	3080	5280	7320	3780	3210	1020	956	1160	e2500	1390
19	11600	2500	3400	5180	7580	3430	3800	996	980	1320	1740	1680
20	12500	2280	3390	4810	7740	3320	4080	942	933	1180	1460	1770
21	13100	2160	3300	4460	7650	3500	4130	890	978	1080	1320	1600
22	13900	2100	3330	4280	7340	3640	4170	890	1080	951	e1250	1570
23	15000	2150	3380	4200	6990	3650	4160	840	1270	848	e1200	2060
24	15900	2210	3390	4030	6750	3830	4150	799	1400	802	1120	3230
25	16000	2240	3340	4220	6610	4030	4190	871	1490	e1000	1110	3650
26	15400	2240	3110	4620	6520	4180	4330	959	1380	e1200	969	4140
27	14300	2250	2690	5290	6440	4340	4560	876	1130	2470	914	4690
28	13200	2220	2250	5860	6330	4540	4660	828	938	2970	956	5330
29	11900	2180	2010	6300	6160	4650	4640	948	874	3240	990	5760
30	10400	2230	1890	6700	---	4720	4480	1060	987	3080	1170	6100
31	9310	---	1830	7070	---	4790	---	952	---	2770	1710	---
TOTAL	442710	139040	73190	118880	204280	110430	101620	52551	30694	41916	109709	90110
MEAN	14280	4635	2361	3835	7044	3562	3387	1695	1023	1352	3539	3004
MAX	23800	8300	3400	7070	7740	5840	4830	4120	1490	3240	6960	6100
MIN	8210	2100	1740	1650	6160	2060	1770	799	712	788	914	1160

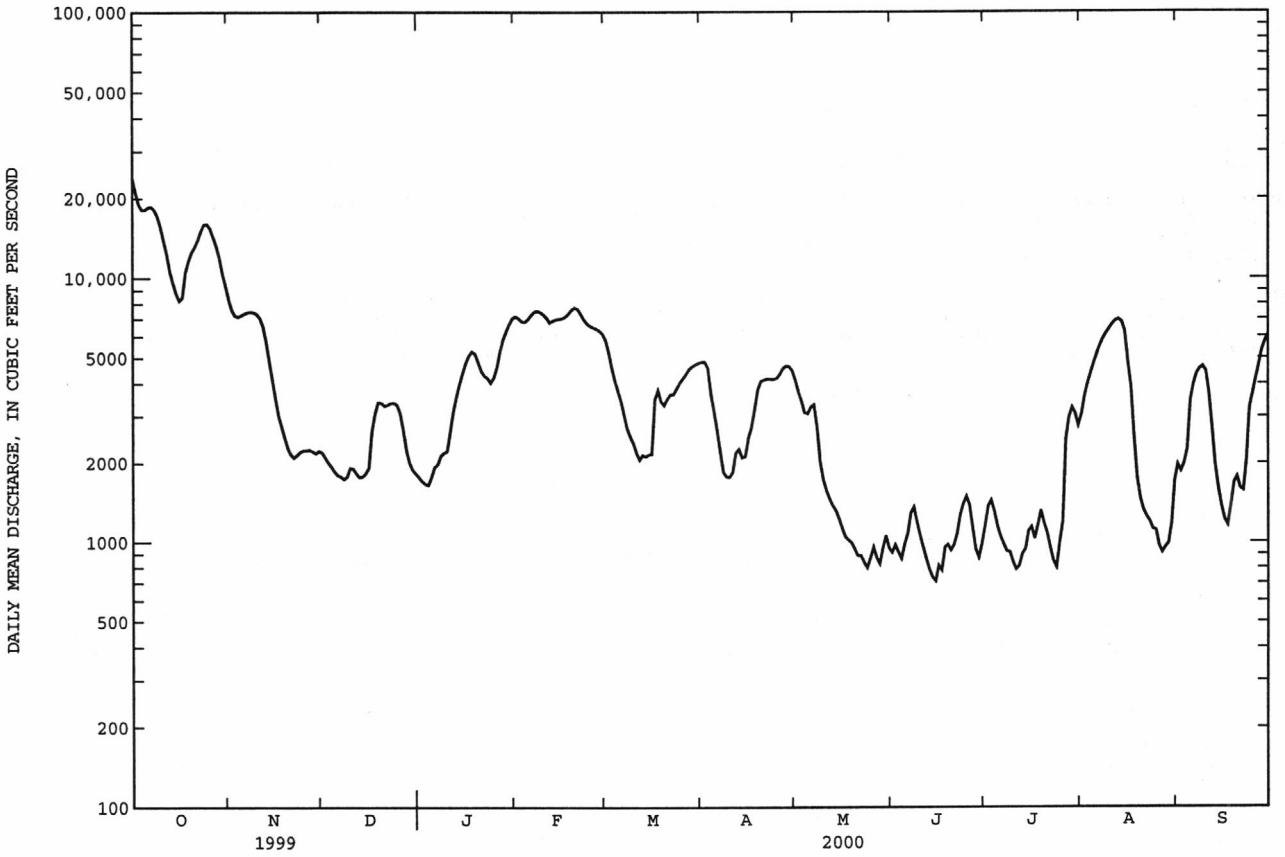
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000*, BY WATER YEAR (WY)

MEAN	2112	1695	2351	3816	4885	5887	4529	2336	1743	1582	1721	2745
MAX	14280	5643	5097	7560	12600	11410	9582	8773	6062	5223	4068	16430
(WY)	2000	1996	1990	1993	1998	1998	1989	1989	1995	1989	1989	1999
MIN	366	430	760	1181	1768	1673	878	563	460	468	314	357
(WY)	1984	1988	1988	1986	1986	1988	1986	1986	1986	1987	1983	1985

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000*	
ANNUAL TOTAL	1677766		1515130			
ANNUAL MEAN	4597		4140		2882	
HIGHEST ANNUAL MEAN					4216	1989
LOWEST ANNUAL MEAN					1204	1988
HIGHEST DAILY MEAN	35800	Sep 23	23800	Oct 1	35800	Sep 23 1999
LOWEST DAILY MEAN	408	Jun 10	712	Jun 15	200	Sep 20 1985
ANNUAL SEVEN-DAY MINIMUM	444	Jun 5	808	Jun 11	214	Sep 16 1985
INSTANTANEOUS PEAK FLOW			16100*	Oct 25	36300	Sep 22 1999
INSTANTANEOUS PEAK STAGE			19.83*	Oct 25	27.71	Sep 22 1999
INSTANTANEOUS LOW FLOW			700	Jun 15	196	Sep 20 1985
10 PERCENT EXCEEDS	12100		7540		7560	
50 PERCENT EXCEEDS	2150		3060		1640	
90 PERCENT EXCEEDS	548		958		501	

e Estimated.
* Regulated period only (1983-2000). See REMARKS.

02089500 NEUSE RIVER AT KINSTON, NC--Continued



02089500 NEUSE RIVER AT KINSTON, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950, 1955-56, 1959-67, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1973 to September 1986.

WATER TEMPERATURE: October 1949 to September 1950, January 1955 to September 1956, July 1973 to September 1986.

INSTRUMENTATION.--Water-quality monitor from October 1981 to September 1986.

REMARKS.--Station operated as part of NAWQA Program from March 1993 to present. Station also operated as part of NASQAN network from October 1974 to September 1994. Daily records of specific conductance for January 1955 to September 1956 are available in the files of the District Office in Raleigh, NC. Samples for October 1999 collected during flooding from Hurricane Floyd.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 242 microsiemens, Sept. 21, 1983; minimum daily, 43 microsiemens, Mar. 28, 1975.

WATER TEMPERATURE: Maximum recorded, 36.0°C, July 13, 14, 19, 20, 1986; minimum daily, 0.0°C, Feb. 7, 1978, Jan. 13, 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT											
29...	1115	11900	754	58	6.0	6.6	68	13.6	18	4.27	1.72
NOV											
30...	1030	2230	772	80	8.5	6.6	112	13.2	26	6.04	2.55
DEC											
13...	1030	1770	762	90	10.1	6.8	108	10.1	25	5.99	2.36
JAN											
11...	1030	2600	760	91	10.2	7.3	96	10.4	21	5.20	2.05
FEB											
15...	1045	7010	767	89	10.5	6.7	88	8.5	21	5.00	1.98
MAR											
28...	1100	4530	--	--	8.1	7.3	85	11.1	22	5.20	2.07
APR											
12...	1100	2200	767	--	7.5	7.2	115	--	24	5.50	2.41
MAY											
11...	1100	1570	762	75	6.3	7.4	112	24.1	23	5.09	2.61
JUN											
14...	1030	739	766	--	--	7.4	140	29.3	28	6.64	2.85
JUL											
12...	1400	810	760	72	5.5	7.6	129	28.9	24	5.49	2.56
AUG											
17...	1030	4000	762	49	4.0	6.1	104	26.5	26	5.99	2.63
SEP											
25...	1045	3640	754	87	6.9	6.4	91	26.2	22	5.25	2.06

DATE	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)	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)
OCT											
29...	3.2	.5	4.5	31	14	17	6.4	<.1	6.7	5.5	.44
NOV											
30...	4.6	.8	9.7	40	20	24	12.2	.1	8.3	9.1	.51
DEC											
13...	4.2	.8	9.0	39	19	23	11.4	.1	8.5	9.2	.42
JAN											
11...	3.3	.8	8.2	41	18	22	10.6	<.1	7.7	7.3	.46
FEB											
15...	2.7	.7	7.4	40	12	15	9.2	<.1	6.1	8.6	.33
MAR											
28...	2.2	.8	8.1	42	15	18	10.1	<.1	6.8	6.9	.41
APR											
12...	3.2	.9	10.5	45	19	23	12.3	.1	7.8	8.9	.39
MAY											
11...	3.1	.9	10.1	45	19	23	11.2	<.1	8.4	9.6	.38
JUN											
14...	3.8	1	12.9	46	22	27	12.8	.2	9.1	12.6	.34
JUL											
12...	3.3	1	11.3	46	29	24	10.7	.2	8.6	9.7	.34
AUG											
17...	2.8	.7	7.8	37	25	31	8.0	.1	8.4	6.0	.62
SEP											
25...	4.1	.6	6.5	35	14	17	8.6	.1	7.6	8.9	.67

02089500 NEUSE RIVER AT KINSTON, NC--Continued

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

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
OCT											
29...	.59	.033	--	.40	.91	.76	.326	--	<.010	.56	.175
NOV											
30...	.56	.071	--	.44	1.4	1.3	.799	--	<.010	.49	.132
DEC											
13...	.57	.070	.816	.35	1.4	1.2	.826	.033	.010	.50	.169
JAN											
11...	.50	.051	--	.41	1.2	1.2	.713	--	<.010	.45	.126
FEB											
15...	.56	.047	--	.29	1.3	1.1	.742	--	<.010	.51	--
MAR											
28...	.60	<.020	--	--	1.0	.84	.434	--	<.010	--	.034
APR											
12...	.53	.047	--	.34	1.4	1.2	.857	--	<.010	.49	.104
MAY											
11...	.51	.044	--	.33	1.2	1.1	.680	--	<.010	.46	.086
JUN											
14...	.46	<.020	--	--	1.4	1.3	.949	--	<.010	--	.117
JUL											
12...	.52	<.020	--	--	1.2	.98	.637	--	<.010	--	.144
AUG											
17...	.75	.074	--	.54	1.0	.87	.255	--	<.010	.67	.120
SEP											
25...	.78	.136	--	.54	1.5	1.4	.679	--	<.010	.65	.227

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
OCT											
29...	.062	.057	.100	--	--	15	1930	60	43	960	57
NOV											
30...	.061	.043	.120	8.6	.4	--	506	84	69	830	65
DEC											
13...	.062	.055	.112	7.1	.2	--	358	75	67	910	45
JAN											
11...	.043	.041	.106	6.4	.4	--	526	75	59	510	24
FEB											
15...	.021	<.010	.067	6.3	.3	--	1310	69	52	290	15
MAR											
28...	.021	.011	.094	6.8	.9	--	783	64	52	230	17
APR											
12...	.048	.034	.126	6.8	.5	--	451	76	67	430	26
MAY											
11...	.046	.028	.083	5.8	.5	--	326	77	65	440	62
JUN											
14...	.051	.038	.117	5.4	<.2	--	182	91	78	--	37
JUL											
12...	.063	.047	.133	6.6	.5	--	182	83	67	160	40
AUG											
17...	.055	.039	.132	10	--	--	918	85	59	870	128
SEP											
25...	.095	.074	.181	11	.5	--	786	80	55	440	41

02089500 NEUSE RIVER AT KINSTON, NC--Continued

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

DATE	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)
OCT											
29...	<.003	<.002	.006	<.002	.006	<.002	<.002	E.004	<.003	<.004	<.004
NOV											
30...	<.003	<.002	<.002	<.002	.007	<.002	<.002	<.003	<.003	<.004	<.004
DEC											
13...	<.003	<.002	<.002	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004
JAN											
11...	<.003	<.002	<.002	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004
FEB											
15...	<.003	<.002	<.002	<.002	.015	<.002	<.002	<.003	<.003	<.004	<.004
MAR											
28...	<.003	<.002	<.002	<.002	.013	<.002	<.002	<.003	<.003	<.004	<.004
APR											
12...	<.003	<.002	.013	<.002	.029	<.002	<.002	E.005	<.003	<.004	<.004
MAY											
11...	<.003	<.002	.007	<.002	.025	<.002	<.002	<.006	<.003	<.004	<.004
JUN											
14...	<.003	<.002	.007	<.002	.014	<.002	<.002	<.006	<.003	<.004	<.004
JUL											
12...	<.003	<.002	<.002	<.002	.014	<.002	<.002	E.029	<.003	<.004	<.010
AUG											
17...	<.003	<.002	<.002	<.002	.015	<.002	<.002	E.030	<.003	<.004	<.004
SEP											
25...	<.003	<.002	<.002	<.002	.013	<.002	<.002	E.088	<.003	<.004	<.004

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
OCT											
29...	<.002	<.002	.005	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
NOV											
30...	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
DEC											
13...	<.002	<.002	E.004	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
JAN											
11...	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
FEB											
15...	<.002	E.004	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
MAR											
28...	<.002	E.004	E.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
APR											
12...	<.002	E.005	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
MAY											
11...	<.002	E.006	.004	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
JUN											
14...	<.002	E.005	.005	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
JUL											
12...	<.002	<.002	<.010	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
AUG											
17...	<.002	E.002	.007	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
SEP											
25...	<.002	E.004	.017	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002

02089500 NEUSE RIVER AT KINSTON, NC--Continued

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

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT											
29...	E.004	<.001	<.006	.015	<.004	<.004	<.003	<.006	<.004	<.004	<.004
NOV											
30...	<.005	<.001	<.006	.007	<.004	<.004	<.003	<.006	<.004	<.004	<.004
DEC											
13...	<.005	<.001	<.006	.020	<.004	<.004	<.003	<.006	<.004	<.004	<.004
JAN											
11...	<.005	<.001	<.006	.020	<.004	<.004	<.003	<.006	<.004	<.004	<.004
FEB											
15...	<.005	<.001	<.006	.013	<.013	<.004	<.003	<.006	<.004	<.004	<.004
MAR											
28...	<.005	<.001	<.006	.011	<.004	<.004	<.003	<.006	<.004	<.004	<.004
APR											
12...	<.005	<.001	<.006	.023	<.004	<.004	<.003	<.006	<.004	<.004	<.004
MAY											
11...	<.005	<.010	<.020	.018	<.004	<.004	<.003	<.006	<.004	<.004	<.006
JUN											
14...	<.005	<.010	<.006	.031	<.004	<.004	<.003	<.006	<.004	<.004	<.005
JUL											
12...	<.005	<.001	<.006	.024	<.004	<.004	<.003	<.006	<.004	<.004	<.004
AUG											
17...	.021	E.019	<.006	.027	<.004	<.004	<.003	<.006	<.004	<.004	<.004
SEP											
25...	.005	<.010	<.006	.040	<.004	<.004	<.003	<.006	<.004	<.004	<.004

DATE	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)	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)
OCT										
29...	<.005	<.002	E.010	<.003	<.007	<.004	<.013	.005	E.004	<.007
NOV										
30...	<.005	<.002	<.018	<.003	<.007	<.004	<.013	.008	E.042	<.007
DEC										
13...	<.005	<.002	E.009	<.003	<.007	<.004	<.013	.018	<.010	<.007
JAN										
11...	<.005	<.002	E.009	<.003	<.007	<.004	<.013	.078	<.010	<.007
FEB										
15...	<.005	<.002	E.010	<.003	<.007	<.004	<.013	.109	<.010	<.007
MAR										
28...	<.005	<.002	E.011	<.003	<.007	<.004	<.013	.115	E.004	<.007
APR										
12...	<.005	<.002	E.017	.017	<.007	<.004	<.013	.043	<.015	<.007
MAY										
11...	<.005	<.002	E.017	<.003	<.007	<.004	<.013	.027	.019	<.007
JUN										
14...	<.005	<.002	.022	<.003	<.007	<.004	<.013	.018	.013	<.007
JUL										
12...	<.005	<.002	E.032	<.003	<.007	<.004	<.013	.015	.027	<.007
AUG										
17...	<.005	<.002	.026	<.003	<.007	<.004	<.013	.018	<.010	<.007
SEP										
25...	<.005	<.002	.019	<.003	<.007	<.004	<.013	.009	E.004	<.007

02089500 NEUSE RIVER AT KINSTON, NC--Continued

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

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
29...	<.013	--	<.002	<.001	<.002	--	--	5	161	77
NOV										
30...	<.013	--	<.002	<.001	<.002	22.1	1.6	11	66	86
DEC										
13...	<.013	--	<.002	<.001	<.002	18.9	1.6	12	57	88
JAN										
11...	<.013	--	<.002	<.001	<.002	22.7	1.6	19	133	69
FEB										
15...	<.013	--	<.002	<.001	<.002	22.4	1.6	9	170	86
MAR										
28...	<.013	--	<.002	<.001	<.002	--	--	21	257	89
APR										
12...	<.013	E.005	<.002	<.001	<.002	26.2	1.9	23	137	92
MAY										
11...	<.013	--	<.002	<.001	<.002	--	--	19	81	95
JUN										
14...	<.013	--	<.002	<.001	<.002	26.9	1.9	13	26	91
JUL										
12...	<.013	--	<.002	<.001	<.002	28.5	1.9	14	31	93
AUG										
17...	<.013	--	<.002	<.001	<.002	--	--	25	270	83
SEP										
25...	<.013	--	<.002	<.001	<.002	--	--	25	246	88



USGS gaging station at Swift Creek at Hillardston.

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC

LOCATION.--Lat 35°41'29", long 78°06'38", Wilson County, Hydrologic Unit 03020203, on right bank 250 ft upstream from bridge on State Highway 581, 1.0 mi downstream of Buckhorn Reservoir, 1.0 mi upstream from Buckhorn Branch, and 6.5 mi northwest of Lucama.

DRAINAGE AREA.--161 mi^2.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 117.43 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Since September 1976, some regulation at low flow by Buckhorn Reservoir (station 02090370) 1 mi upstream. Minimum discharge for period of record also occurred Sept. 10-14, 1976, due to regulation. 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	1620	155	87	86	1020	192	155	230	22	69	1200	221
2	939	244	61	86	1020	193	143	175	22	60	1220	204
3	541	359	65	85	790	148	142	127	22	46	796	191
4	355	320	69	104	628	144	180	100	21	40	560	235
5	255	276	68	147	554	155	159	86	22	34	631	320
6	187	226	105	172	481	137	106	70	62	44	542	448
7	151	186	120	206	425	129	95	62	32	36	452	535
8	127	156	98	174	362	128	133	57	22	32	e325	351
9	112	143	99	183	319	125	224	45	22	32	225	195
10	109	143	104	340	282	113	177	42	21	36	172	120
11	108	129	99	674	258	111	197	22	21	32	147	78
12	96	119	90	740	303	185	165	26	20	24	161	57
13	100	110	88	649	489	77	155	22	20	24	281	44
14	110	105	185	398	612	82	155	18	23	23	283	33
15	84	107	346	234	613	88	210	27	21	37	227	47
16	81	137	485	217	515	98	277	20	23	65	179	24
17	295	60	402	162	402	160	285	25	24	72	141	12
18	2270	59	276	149	378	134	321	26	25	55	126	15
19	2190	63	209	153	421	166	267	26	24	44	137	50
20	1490	68	189	236	402	171	213	26	22	42	171	50
21	1330	72	172	189	348	251	188	23	22	26	152	54
22	1360	103	173	170	285	286	169	28	24	26	123	45
23	1100	134	161	208	246	255	125	21	22	25	107	157
24	656	146	149	287	219	208	87	31	21	168	93	401
25	423	136	133	700	202	172	100	27	21	631	92	584
26	318	124	122	677	186	157	105	21	22	864	96	1140
27	254	133	118	622	181	143	119	22	25	708	87	1560
28	213	108	100	480	222	218	141	20	24	442	93	1180
29	190	101	105	368	195	250	200	27	31	264	86	629
30	173	105	90	394	---	225	252	30	56	230	119	326
31	164	---	89	766	---	184	---	22	---	488	183	---
TOTAL	17401	4327	4657	10056	12358	5085	5245	1504	759	4719	9207	9306
MEAN	561	144	150	324	426	164	175	48.5	25.3	152	297	310
MAX	2270	359	485	766	1020	286	321	230	62	864	1220	1560
MIN	81	59	61	85	181	77	87	18	20	23	86	12
CFSM	3.49	.90	.93	2.01	2.65	1.02	1.09	.30	.16	.95	1.84	1.93
IN.	4.02	1.00	1.08	2.32	2.86	1.17	1.21	.35	.18	1.09	2.13	2.15

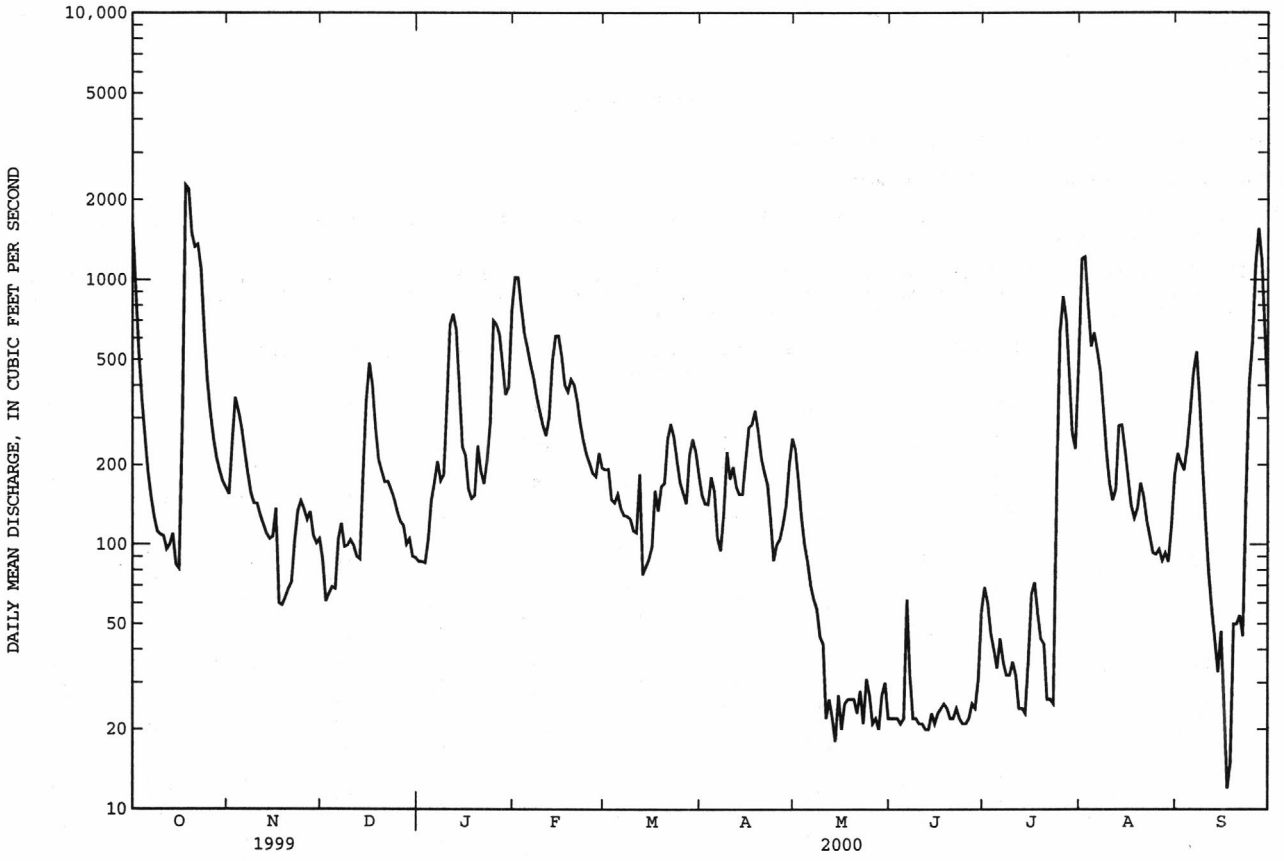
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	84.9	88.4	136	270	312	335	197	121	90.9	88.3	101	101
MAX	644	304	404	690	633	803	701	537	359	624	512	1326
(WY)	1965	1996	1973	1987	1998	1989	1987	1989	1965	1984	1986	1999
MIN	2.05	2.76	21.2	39.4	87.5	67.7	24.7	8.08	10.4	3.96	3.18	2.52
(WY)	1981	1974	1966	1981	1986	1981	1986	1981	1970	1981	1980	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	91187.71		84624			
ANNUAL MEAN	250		231		159	
HIGHEST ANNUAL MEAN					278	1984
LOWEST ANNUAL MEAN					35.5	1981
HIGHEST DAILY MEAN	13000	Sep 17	2270	Oct 18	13000	Sep 17 1999
LOWEST DAILY MEAN	.51	Jun 19	12	Sep 17	.04	Sep 9 1976
ANNUAL SEVEN-DAY MINIMUM	5.8	Jun 18	21	Jun 9	.04	Sep 8 1976
INSTANTANEOUS PEAK FLOW			2610	Oct 18	24000	Sep 17 1999
INSTANTANEOUS PEAK STAGE			12.65	Oct 18	24.82	Sep 17 1999
INSTANTANEOUS LOW FLOW			8.8	May 14	.04	Sep 9 1976
ANNUAL RUNOFF (CFSM)	1.55		1.44		.99	
ANNUAL RUNOFF (INCHES)	21.07		19.55		13.39	
10 PERCENT EXCEEDS	410		546		390	
50 PERCENT EXCEEDS	87		143		70	
90 PERCENT EXCEEDS	14		24		11	

e Estimated.

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC--Continued



02090380 CONTENTNEA CREEK NEAR LUCAMA, NC--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, FOR PERIOD DECEMBER 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)
DEC										
02...	1445	61	772	93	10.2	6.6	45	11.7	12	3.00
JAN										
05...	1100	185	770	101	11.4	6.3	52	10.3	14	3.30
MAR										
23...	1430	249	772	101	10.7	7.2	56	13.4	14	3.10
APR										
17...	1500	278	757	102	9.2	7.4	61	20.1	15	3.40
JUN										
02...	1100	22	765	87	7.6	6.7	70	22.7	17	4.10
27...	1600	31	766	85	6.5	6.8	74	29.6	19	4.30
JUL										
28...	1330	423	--	--	8.1	7.1	75	27.8	20	4.70
AUG										
23...	1345	110	768	86	6.8	6.8	58	27.4	17	4.20
SEP										
28...	0730	1290	768	121	10.7	6.8	57	21.8	17	4.10

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)	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)
DEC										
02...	1.20	2.6	.3	2.7	27	3.9	<.1	4.5	2.5	.73
JAN										
05...	1.40	3.0	.4	3.5	30	4.8	<.1	3.5	2.3	.50
MAR										
23...	1.40	2.0	.5	4.6	38	6.8	<.1	4.2	3.0	.40
APR										
17...	1.50	2.1	.6	5.0	39	6.5	<.1	3.0	2.9	.49
JUN										
02...	1.70	2.2	.6	5.4	37	6.4	<.1	2.5	2.3	.55
27...	1.90	2.5	.6	6.1	38	6.5	<.1	2.4	2.3	.46
JUL										
28...	2.10	2.4	.6	5.8	35	6.4	<.1	2.8	1.5	.42
AUG										
23...	1.70	2.2	.4	4.2	31	4.5	<.1	5.5	2.0	.60
SEP										
28...	1.60	2.1	.4	3.9	30	4.2	<.1	7.0	2.0	.60

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
DEC									
02...	.81	.170	.150	.56	.97	.89	.160	.010	.64
JAN									
05...	.54	.050	--	.45	.74	.70	.200	<.010	.49
MAR									
23...	.41	.040	--	.36	.57	.56	.160	<.010	.37
APR									
17...	.61	.100	.170	.39	.79	.67	.180	.010	.51
JUN									
02...	.59	.130	--	.42	.69	.65	.100	<.010	.46
27...	.74	.110	--	.35	.78	.50	.040	<.010	.63
JUL									
28...	.57	.070	--	.35	--	--	<.020	<.010	.50
AUG									
23...	.68	.060	--	.54	.71	.63	.030	<.010	.62
SEP									
28...	.80	.120	--	.48	.84	.64	.040	<.010	.68

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC--Continued

WATER-QUALITY DATA, FOR PERIOD DECEMBER 1999 TO SEPTEMBER 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)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
DEC									
02...	.040	.020	.050	13	50	2000	85	17.0	1.2
JAN									
05...	.060	.030	.070	12	54	2500	36	--	--
MAR									
23...	.040	<.010	.040	6.5	45	1000	44	--	--
APR									
17...	<.020	<.010	.030	7.6	46	1700	52	--	--
JUN									
02...	.030	<.010	.050	9.3	40	1900	47	--	--
27...	.020	.010	.030	8.7	54	1300	75	--	--
JUL									
28...	<.020	<.010	.030	8.9	58	540	38	--	--
AUG									
23...	<.020	<.010	<.020	11	56	950	170	--	--
SEP									
28...	<.020	<.010	.030	11	56	1100	9	--	--

02090519 CONTENTNEA CREEK NEAR EVANSDALE, NC

LOCATION.--Lat 35°38'34", long 77°53'25", Wilson County, Hydrologic Unit 03020203, at Secondary Road 1622, 0.3 mi downstream from Hominy Swamp, and 2.8 mi southwest of Evansdale.

DRAINAGE AREA.--265 mi^2

PERIOD OF RECORD.--June to September 2000.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, FOR PERIOD JUNE 2000 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN												
02...	1215	27	765	63	5.5	6.6	191	21.9	25	6.10	2.40	4.6
JUL												
27...	1115	648	--	--	6.0	6.2	79	24.5	19	4.30	1.90	2.7
SEP												
28...	0900	1670	771	56	5.2	6.0	59	19.6	16	3.80	1.50	2.8

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 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, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
JUN												
02...	2	23.0	62	21.0	.3	4.9	16.0	.73	.94	.150	1.38	.58
JUL												
27...	.7	6.8	40	7.6	.1	4.1	4.5	.52	.79	.070	--	.45
SEP												
28...	.5	4.3	33	5.7	<.1	6.1	3.5	.62	.81	.030	--	.59

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)
JUN												
02...	2.3	2.1	1.40	.020	.79	.090	.060	.130	9.6	124	920	86
JUL												
27...	.93	.66	.140	<.010	.72	.040	.030	.090	9.9	74	660	56
SEP												
28...	.91	.72	.100	<.010	.78	.030	.020	.070	12	62	890	33

02090960 NAHUNTA SWAMP NEAR PIKEVILLE, NC

LOCATION.--Lat 35°30'49", long 77°58'56", Wayne County, Hydrologic Unit 03020203, at bridge on U.S. Highway 117, 0.2 mi downstream from Seaboard Coast Railroad, and 1 mi north of Pikeville.

DRAINAGE AREA.--18.6 mi^2.

PERIOD OF RECORD.--June to September 2000.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN												
02...	1400	2.6	765	74	6.1	6.4	103	25.3	29	7.80	2.30	2.5
JUL												
27...	1330	6.9	--	--	4.9	6.0	90	24.4	28	7.30	2.30	2.7
SEP												
28...	1130	49	770	53	5.1	5.6	86	17.6	24	6.10	2.20	4.2

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 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, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
JUN												
02...	.5	5.9	29	12.0	<.1	4.1	2.1	.49	.68	.080	--	.41
JUL												
27...	.4	4.7	25	9.5	<.1	8.1	5.0	.71	.74	.080	--	.63
SEP												
28...	.4	4.1	23	9.9	<.1	9.1	7.4	.86	.90	.070	.560	.79

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)
JUN												
02...	1.2	1.0	.530	<.010	.60	.040	.020	.080	8.4	68	830	45
JUL												
27...	1.0	1.0	.290	<.010	.66	.040	.030	.070	10	83	980	49
SEP												
28...	1.5	1.4	.570	.010	.83	.040	.030	.060	18	95	740	43

0209096970 MOCCASIN RUN NEAR PATETOWN, NC

LOCATION.--Lat 35°28'46", long 77°54'37", Wayne County, Hydrologic Unit 03020203, at Secondary Road 1523, 1.5 mi northeast of Patetown.

DRAINAGE AREA.--1.89 mi^2

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

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, FOR PERIOD DECEMBER 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)
DEC										
02...	1600	--	772	57	7.3	6.0	56	5.9	13	3.00
JAN										
05...	1300	--	770	68	7.4	6.1	59	11.8	12	2.80
MAR										
23...	1100	5.0	773	90	9.7	6.9	56	12.8	13	2.90
APR										
17...	1145	.56	760	56	5.0	6.2	59	20.6	14	3.20
JUN										
01...	1500	.65	766	74	6.1	6.0	65	24.9	18	4.20
27...	1315	.59	766	19	1.5	5.9	78	27.7	21	5.20
JUL										
27...	1430	1.2	--	--	3.8	5.8	69	26.2	19	4.70
AUG										
23...	1515	--	768	12	1.0	5.8	66	23.4	19	4.80
SEP										
28...	1300	E3.7	770	27	2.5	5.6	62	18.5	16	3.80

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)	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)
DEC										
02...	1.40	2.9	.5	4.2	35	10.0	<.1	1.6	1.0	.68
JAN										
05...	1.30	2.6	.5	4.4	38	11.0	<.1	1.6	1.1	.28
MAR										
23...	1.40	2.2	.5	4.3	37	9.3	<.1	1.7	1.4	.46
APR										
17...	1.50	1.9	.5	4.3	36	8.9	<.1	2.0	1.0	.64
JUN										
01...	1.80	1.2	.5	4.8	35	8.9	<.1	1.9	.4	.56
27...	2.00	1.5	.5	5.3	33	10.0	<.1	2.3	.4	.64
JUL										
27...	1.70	1.5	.5	4.9	34	10.0	<.1	2.5	.4	.51
AUG										
23...	1.80	1.5	.5	5.0	34	9.2	<.1	2.6	.4	.72
SEP										
28...	1.50	4.2	.4	3.2	25	7.8	<.1	4.5	3.0	.59

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
DEC									
02...	.81	.110	--	.57	.97	.84	.160	<.010	.70
JAN									
05...	.59	.040	--	.24	.76	.45	.170	<.010	.55
MAR									
23...	.47	.060	--	.40	.66	.65	.190	<.010	.41
APR									
17...	.72	.200	.090	.44	.82	.74	.100	.010	.52
JUN									
01...	.80	.130	--	.43	.84	.60	.040	<.010	.67
27...	.83	.270	--	.37	--	--	<.020	<.010	.56
JUL									
27...	.70	.080	--	.43	--	--	<.020	<.010	.62
AUG									
23...	1.0	.150	--	.57	--	--	<.020	<.010	.85
SEP									
28...	.83	.060	--	.53	.89	.65	.060	<.010	.77

0209096970 MOCCASIN RUN NEAR PATETOWN, NC--Continued

WATER-QUALITY DATA, FOR PERIOD DECEMBER 1999 TO SEPTEMBER 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)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
DEC									
02...	.100	.090	.140	8.0	43	2300	30	26.2	1.9
JAN									
05...	.050	.030	.080	7.6	40	1200	34	--	--
MAR									
23...	.070	.040	.070	7.4	46	1300	17	--	--
APR									
17...	.050	.030	.090	8.3	40	1600	49	--	--
JUN									
01...	.030	.020	.090	9.8	46	930	41	--	--
27...	.050	.040	.140	9.6	60	1500	120	--	--
JUL									
27...	<.020	.010	.060	8.0	62	620	51	--	--
AUG									
23...	.020	.030	.070	12	58	1600	94	--	--
SEP									
28...	.040	.020	.070	13	62	880	52	--	--

02091000 NAHUNTA SWAMP NEAR SHINE, NC

LOCATION.--Lat 35°29'20", long 77°48'22", Greene County, Hydrologic Unit 03020203, on right bank 10 ft downstream of bridge on Secondary Road 1058, 2 mi upstream from Appletree Swamp, 3.5 mi north of Shine, and 8 mi northwest of Snow Hill.

DRAINAGE AREA.--80.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1954 to current year. Monthly discharges only for some periods, published in WSP 1723.

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

GAGE.--Water-stage recorder. Datum of gage is 50.74 ft above sea level. Prior to Apr. 1, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated discharges which are poor. Maximum discharge for period of record, on basis of slope conveyances measurement of peak flow; gage height from floodmarks. Minimum discharge for period of record also occurred Oct. 8, 1954. Minimum discharge for current water year also occurred June 13, 14, July 11.

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	898	104	57	42	507	83	65	66	16	20	94	43
2	625	217	56	42	303	80	62	50	14	16	59	32
3	279	398	59	41	211	76	57	43	12	14	53	39
4	177	297	55	43	180	72	55	37	14	13	78	113
5	153	177	55	65	157	72	52	34	23	12	161	190
6	e130	143	58	56	141	67	48	31	32	14	139	104
7	110	130	59	52	131	63	44	29	23	15	65	65
8	98	116	54	50	123	63	43	25	17	13	41	47
9	90	108	50	58	117	62	84	22	14	12	31	37
10	85	104	50	136	114	59	68	21	12	12	25	31
11	84	101	52	177	109	56	52	19	11	11	21	27
12	81	96	50	111	171	116	45	18	11	62	19	25
13	75	92	47	82	372	93	44	17	10	58	19	23
14	97	91	57	66	326	69	54	16	11	e30	17	27
15	79	88	67	57	315	62	118	15	15	e24	18	30
16	70	81	57	56	219	72	126	14	16	e20	17	24
17	349	76	50	54	172	192	87	14	13	e15	32	20
18	1870	73	49	52	162	121	108	14	11	14	25	30
19	1510	71	55	57	175	89	103	13	11	12	33	89
20	926	71	69	83	154	91	76	13	22	12	30	55
21	687	72	61	100	135	184	61	12	17	13	24	35
22	512	76	65	76	121	147	52	15	15	16	20	29
23	294	85	62	100	113	117	47	15	32	23	16	153
24	207	81	55	203	109	97	42	14	21	24	15	386
25	168	76	51	518	104	85	65	13	16	46	14	230
26	146	77	47	e540	99	78	112	12	14	67	15	404
27	135	85	48	375	97	76	66	11	13	36	16	346
28	126	70	46	213	100	122	66	11	12	25	18	199
29	116	64	46	170	91	108	114	22	26	20	74	112
30	110	60	44	226	---	86	96	19	30	20	61	83
31	106	---	43	561	---	72	---	17	---	34	68	---
TOTAL	10393	3380	1674	4462	5128	2830	2112	672	504	723	1318	3028
MEAN	335	113	54.0	144	177	91.3	70.4	21.7	16.8	23.3	42.5	101
MAX	1870	398	69	561	507	192	126	66	32	67	161	404
MIN	70	60	43	41	91	56	42	11	10	11	14	20
CFSM	4.17	1.40	.67	1.79	2.20	1.14	.88	.27	.21	.29	.53	1.26
IN.	4.81	1.56	.77	2.06	2.37	1.31	.98	.31	.23	.33	.61	1.40

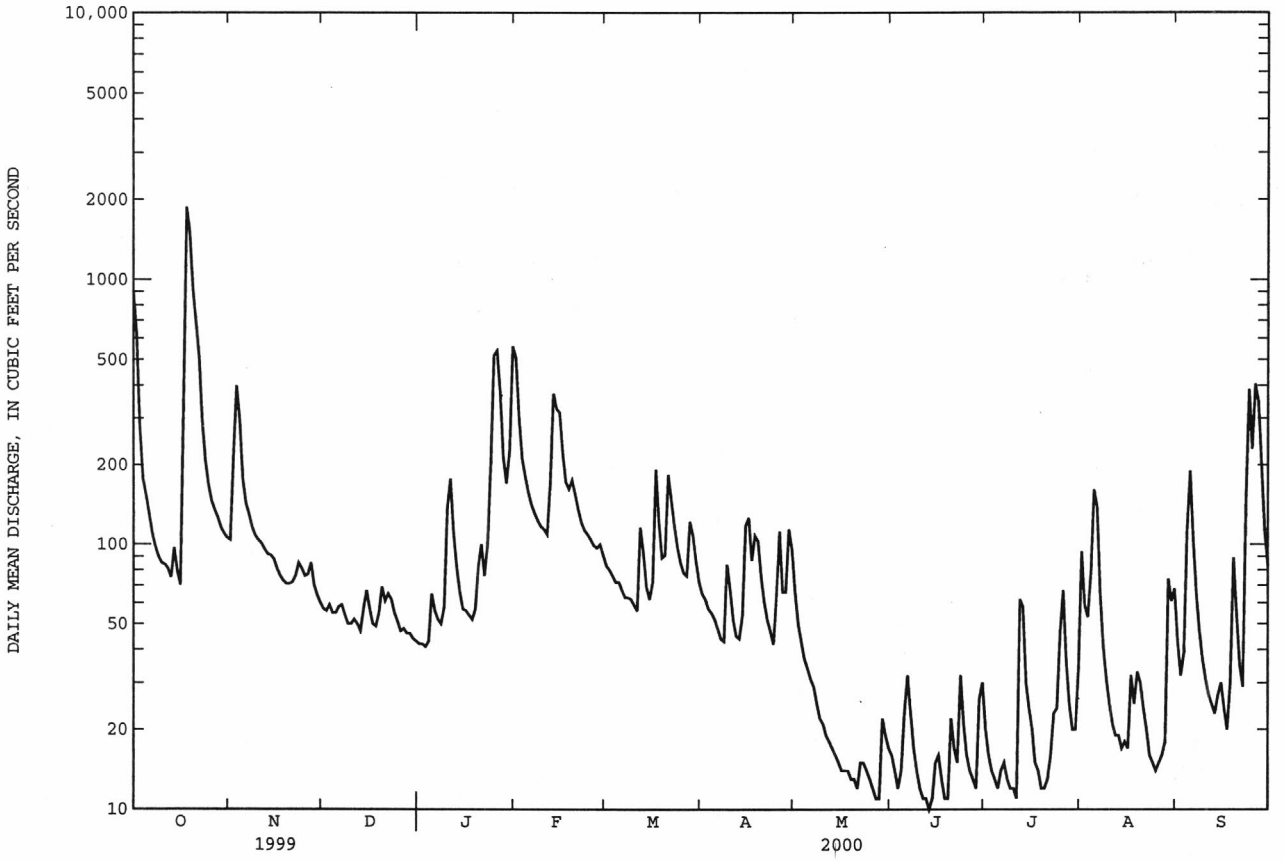
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	55.5	56.2	70.2	122	144	145	102	59.4	52.4	59.0	68.8	83.9
MAX	473	253	184	261	327	311	252	277	243	395	360	1083
(WY)	1965	1978	1958	1993	1998	1983	1974	1989	1995	1965	1974	1999
MIN	2.26	11.2	19.7	31.1	34.6	33.7	19.1	10.8	5.35	3.10	4.71	2.58
(WY)	1955	1987	1995	1955	1988	1986	1986	1986	1986	1987	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	64245.5		36224			
ANNUAL MEAN	176		99.0		85.7	
HIGHEST ANNUAL MEAN					150	1965
LOWEST ANNUAL MEAN					22.9	1986
HIGHEST DAILY MEAN	7000	Sep 17	1870	Oct 18	7000	Sep 17 1999
LOWEST DAILY MEAN	4.4	Jun 13	10	Jun 13	1.0	Oct 7 1954
ANNUAL SEVEN-DAY MINIMUM	4.8	Jun 8	12	Jun 9	1.3	Oct 4 1954
INSTANTANEOUS PEAK FLOW			2160	Oct 18	23000*	Sep 17 1999
INSTANTANEOUS PEAK STAGE			11.61	Oct 18	21.00*	Sep 17 1999
INSTANTANEOUS LOW FLOW			10*	Jun 12	1.0*	Oct 7 1954
ANNUAL RUNOFF (CFSM)	2.19		1.23		1.07	
ANNUAL RUNOFF (INCHES)	29.73		16.76		14.49	
10 PERCENT EXCEEDS	286		181		176	
50 PERCENT EXCEEDS	56		60		44	
90 PERCENT EXCEEDS	12		14		10	

e Estimated.
* See REMARKS.

02091000 NAHUNTA SWAMP NEAR SHINE, NC--Continued



02091000 NAHUNTA SWAMP NEAR SHINE, NC--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, FOR PERIOD DECEMBER 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)
DEC										
02...	1330	56	773	90	11.2	6.3	84	6.4	22	5.60
JAN										
05...	1215	68	770	83	9.0	6.3	84	12.2	20	5.00
MAR										
23...	1315	116	772	89	9.8	7.0	82	11.8	22	5.30
APR										
17...	1300	86	762	87	8.4	7.1	80	17.4	20	4.80
JUN										
01...	1545	15	766	110	9.5	6.5	87	22.9	22	5.20
27...	1415	13	766	122	9.6	6.6	89	28.3	24	5.90
JUL										
27...	1515	34	--	--	7.1	6.3	82	25.1	23	5.60
AUG										
23...	1600	16	768	119	9.9	6.8	85	25.0	24	6.00
SEP										
27...	1530	322	769	62	5.8	5.7	81	19.1	21	5.30

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)	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)
DEC										
02...	2.00	3.1	.5	4.9	29	12.0	<.1	7.9	4.3	.51
JAN										
05...	1.90	3.3	--	E5.3	--	12.0	<.1	6.7	4.3	.33
MAR										
23...	2.10	2.8	.5	5.1	30	11.0	<.1	7.0	5.3	.58
APR										
17...	2.00	2.8	.5	4.9	31	10.0	<.1	6.7	4.3	.64
JUN										
01...	2.10	2.7	.5	5.6	33	10.0	.1	6.0	3.3	.48
27...	2.30	2.7	.5	5.9	32	10.0	.1	6.2	3.4	.42
JUL										
27...	2.10	2.5	.5	5.2	30	9.8	.1	7.4	4.0	.61
AUG										
23...	2.20	2.8	.5	5.4	30	11.0	.1	6.9	3.5	.58
SEP										
27...	1.90	5.0	.4	3.8	23	8.4	<.1	8.3	7.2	.78

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
DEC									
02...	.57	.140	1.29	.37	1.9	1.8	1.30	.010	.43
JAN									
05...	.47	.080	--	.25	1.7	1.5	1.20	<.010	.39
MAR									
23...	.56	.100	.990	.48	1.6	1.6	1.00	.010	.46
APR									
17...	.70	.100	.780	.54	1.5	1.4	.800	.020	.60
JUN									
01...	.45	.020	--	.46	1.3	1.3	.850	<.010	.43
27...	.49	.080	--	.34	.97	.90	.480	<.010	.41
JUL									
27...	.72	.080	--	.53	1.2	1.1	.510	<.010	.64
AUG									
23...	.73	.020	--	.56	1.2	1.1	.510	<.010	.71
SEP									
27...	1.0	.070	--	.71	1.6	1.4	.630	<.010	.93

02091000 NAHUNTA SWAMP NEAR SHINE, NC--Continued

WATER-QUALITY DATA, FOR PERIOD DECEMBER 1999 TO SEPTEMBER 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)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
DEC									
02...	.060	.050	.080	6.5	61	1200	27	25.6	1.9
JAN									
05...	.060	.030	.080	5.9	60	730	22	--	--
MAR									
23...	.090	.050	.090	7.1	63	840	27	--	--
APR									
17...	.060	.050	.120	8.1	72	1000	22	--	--
JUN									
01...	.060	.040	.120	7.1	59	980	10	--	--
27...	.100	.090	.170	9.5	71	1400	20	--	--
JUL									
27...	.060	.050	.120	8.7	72	720	26	--	--
AUG									
23...	.070	.080	.080	9.4	72	1300	18	--	--
SEP									
27...	.080	.080	.120	15	81	540	42	--	--

02091500 CONTENTNEA CREEK AT HOOKERTON, NC

LOCATION.--Lat 35°25'44", long 77°34'59", Greene County, Hydrologic Unit 03020203, on left bank at bridge on State Highway 123 at Hookerton, and 2.2 mi upstream from Wheat Swamp Creek.

DRAINAGE AREA.--733 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1333: 1903-35. WSP 1383: Drainage area. WSP 1503: 1951. WSP 1723: 1932. WDR NC-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.85 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Nov. 26, 1934, nonrecording gage at site 1,400 ft upstream and Nov. 27, 1934, to Sept. 30, 1987, water-stage recorder at site 0.3 mi upstream at present datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Buckhorn Reservoir (station 02090370) since September 1976. Maximum gage height for period of record from high-water mark inside gage house. Minimum discharge for current water year also occurred June 29.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 23.3 ft, from floodmark; high water of autumn 1924 was about 0.1 ft lower, from information by local resident.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11400	2280	725	e560	e3500	1100	913	913	245	175	932	331
2	11100	1990	689	e540	e3480	1020	909	914	236	182	989	364
3	10100	1850	659	e530	e3450	964	885	915	215	184	1010	415
4	8210	1690	637	e540	e3410	920	780	914	205	196	1040	484
5	6770	1650	615	e550	3420	906	708	892	235	219	1140	682
6	5520	1710	596	577	3400	845	641	758	295	219	1280	784
7	4760	1830	586	606	3310	773	588	645	297	202	1500	827
8	3950	1980	581	634	3140	735	553	550	274	217	1750	888
9	3370	2050	585	663	2920	708	550	479	241	239	1910	896
10	2900	1980	597	763	2660	680	548	424	215	254	1930	885
11	2430	1800	614	968	2360	650	558	380	203	229	1840	802
12	1970	1600	620	1090	2110	e660	572	345	194	206	1740	751
13	1610	1400	615	1150	2030	e680	596	e320	178	197	1470	656
14	1350	1220	628	1190	1980	e750	602	e290	161	226	1070	474
15	1150	1070	645	1270	2070	e740	667	e274	154	211	806	344
16	1010	966	646	1370	2160	e710	865	e250	178	179	639	279
17	1690	909	e660	1460	2290	998	925	e230	188	169	524	227
18	4240	862	e700	1510	2420	1050	1030	e220	191	213	469	201
19	4530	789	771	1480	2530	1020	1110	214	171	229	423	237
20	5080	761	905	1370	2550	988	1130	201	153	231	363	262
21	6870	737	e910	1200	2470	1050	1130	193	145	225	310	260
22	7450	712	e950	1060	2330	1120	1100	194	149	217	260	220
23	7270	689	e900	1000	2150	1140	1040	195	204	204	227	302
24	6410	683	e890	1110	1980	1160	942	202	221	190	218	675
25	5530	694	e820	1600	1830	1180	871	196	198	189	211	828
26	4790	709	e760	1820	1680	1170	910	185	174	248	189	1020
27	4230	753	e740	2040	1510	1130	901	175	155	384	166	1120
28	3800	778	e700	2350	1360	1070	816	178	141	488	169	1170
29	3440	777	e650	e2650	1220	1000	899	203	150	583	175	1270
30	3100	757	e620	e3000	---	966	910	216	167	695	251	1400
31	2710	---	e600	e3450	---	934	---	229	---	849	311	---
TOTAL	148740	37676	21614	40101	71720	28817	24649	12294	5933	8449	25312	19054
MEAN	4798	1256	697	1294	2473	930	822	397	198	273	817	635
MAX	11400	2280	950	3450	3500	1180	1130	915	297	849	1930	1400
MIN	1010	683	581	530	1220	650	548	175	141	169	166	201
CFSM	6.55	1.71	.95	1.76	3.37	1.27	1.12	.54	.27	.37	1.11	.87
IN.	7.55	1.91	1.10	2.04	3.64	1.46	1.25	.62	.30	.43	1.28	.97

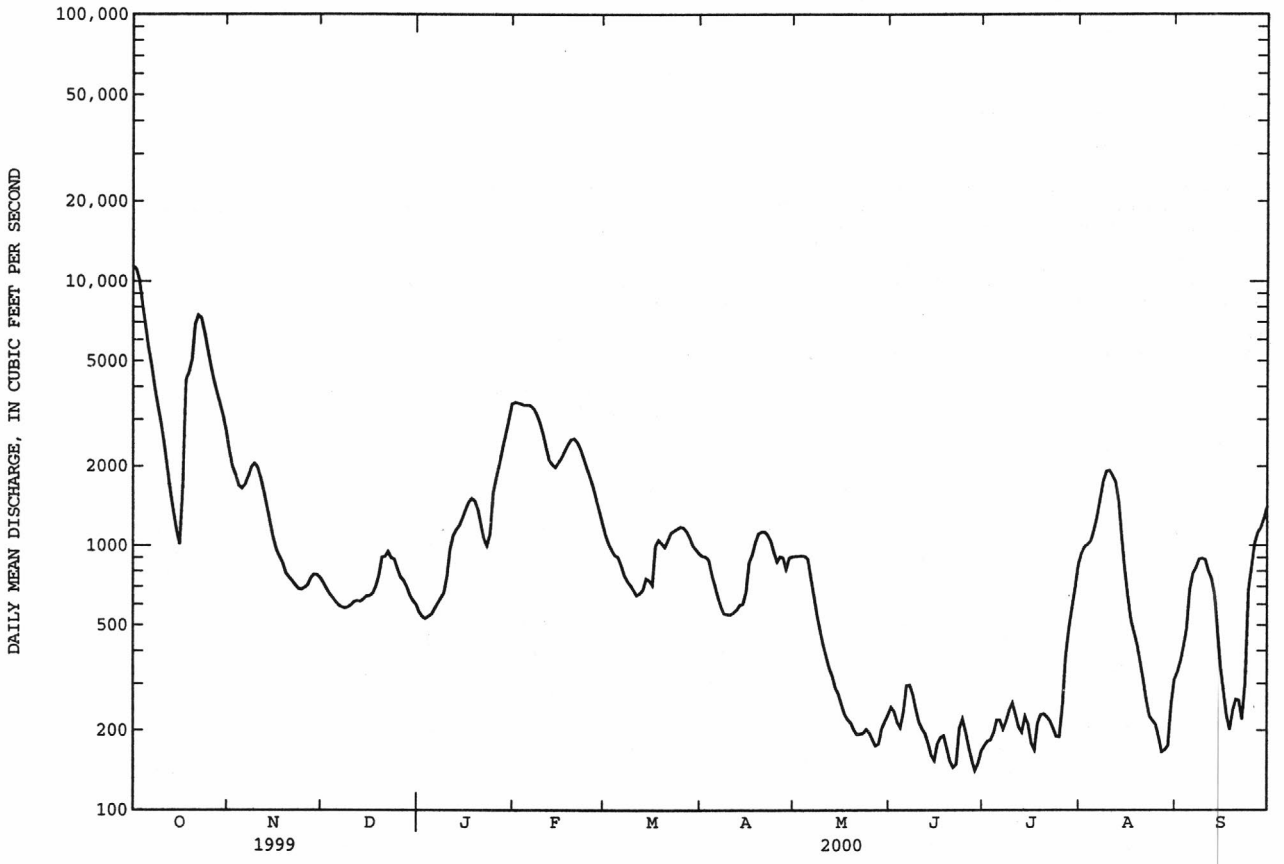
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	512	465	680	1136	1402	1450	1024	584	456	550	627	639
MAX	4798	2150	2349	2626	4316	3491	2752	3363	1770	2203	2422	8825
(WY)	2000	1948	1949	1993	1948	1989	1989	1989	1995	1929	1960	1999
MIN	20.3	41.1	64.7	92.5	239	382	202	82.9	38.5	63.3	37.2	24.9
(WY)	1955	1955	1934	1934	1934	1981	1986	1986	1986	1952	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	640589		444359			
ANNUAL MEAN	1755		1214		781	
HIGHEST ANNUAL MEAN					1422	1960
LOWEST ANNUAL MEAN					242	1951
HIGHEST DAILY MEAN	31500	Sep 19	11400	Oct 1	31500	Sep 19 1999
LOWEST DAILY MEAN	50	Jun 13	141	Jun 28	15	Oct 28 1933
ANNUAL SEVEN-DAY MINIMUM	56	Jun 8	163	Jun 26	16	Oct 8 1954
INSTANTANEOUS PEAK FLOW			11600	Oct 1	31900	Sep 18 1999
INSTANTANEOUS PEAK STAGE			18.95	Oct 1	28.28*	Sep 18 1999
INSTANTANEOUS LOW FLOW			138*	Jun 28	15	Oct 28 1933
ANNUAL RUNOFF (CFSM)	2.39		1.66		1.07	
ANNUAL RUNOFF (INCHES)	32.51		22.55		14.48	
10 PERCENT EXCEEDS	4090		2650		1930	
50 PERCENT EXCEEDS	646		767		448	
90 PERCENT EXCEEDS	82		198		87	

e Estimated.
* See REMARKS.

02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued



02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950, 1969-72, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1979 to September 1984.

WATER TEMPERATURE: October 1949 to September 1950, March 1979 to September 1984.

INSTRUMENTATION.--Water-quality monitor from October 1981 to September 1984.

REMARKS.--Station operated as part of NAWQA Program from March 1993 to present. Station also operated as part of NASQAN network from March 1979 to September 1993. Miscellaneous chemical data published for water years 1945, 1947-49, 1955-67. Samples for October 1999 were collected during flooding from Hurricane Floyd.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 218 microsiemens, Nov. 1, 10, 1983; minimum daily, 41 microsiemens, June 11, 1979.

WATER TEMPERATURE: Maximum, 29.5°C, Aug. 23, 1983; minimum daily, 1.0°C, Jan. 13, 14, 1981, Jan. 18, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT											
29...	1400	3420	754	65	6.7	6.2	60	13.3	16	3.67	1.59
NOV											
30...	1400	757	774	73	7.9	6.1	90	12.3	23	5.18	2.50
DEC											
13...	1400	614	762	81	9.2	6.2	89	9.5	21	4.78	2.14
JAN											
11...	1245	975	757	84	9.4	6.5	86	10.0	20	4.69	2.02
FEB											
15...	1330	2070	767	86	10.1	6.3	78	8.8	19	4.35	1.94
MAR											
28...	1430	1060	746	75	7.2	6.9	77	16.1	20	4.60	2.03
APR											
12...	1345	574	765	75	7.2	6.9	91	17.9	21	4.91	2.22
25...	1100	811	752	62	6.1	6.7	83	15.3	21	4.74	2.12
MAY											
11...	1400	378	763	58	4.9	7.2	102	23.4	24	5.59	2.36
23...	1100	195	759	67	5.6	7.1	117	23.9	26	6.27	2.61
JUN											
14...	1400	161	765	73	5.7	7.4	139	28.6	27	6.33	2.60
28...	1100	141	765	116	9.1	7.2	123	28.1	26	6.10	2.55
JUL											
12...	1045	208	761	58	4.6	7.0	106	27.3	22	5.05	2.34
24...	1625	217	759	70	5.6	6.6	114	26.3	22	5.10	2.22
AUG											
10...	1230	1950	758	64	5.0	6.7	83	27.8	21	5.15	2.09
17...	1445	513	760	36	2.9	6.0	95	26.0	24	5.76	2.38
SEP											
20...	1100	262	--	--	7.4	6.8	97	21.8	23	5.35	2.30
25...	1400	814	753	52	4.4	6.4	91	23.3	20	4.57	1.97

02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued

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

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	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 DIS. (MG/L AS N) (00623)
OCT											
29...	3.5	.3	3.2	25	9	10	6.5	<.1	6.2	4.0	.52
NOV											
30...	4.6	.5	6.0	31	14	17	11.7	.1	6.1	5.3	.56
DEC											
13...	4.2	.6	6.4	35	12	15	11.9	<.1	5.5	5.7	.50
JAN											
11...	3.7	.6	6.1	35	10	12	11.5	<.1	4.6	5.4	.61
FEB											
15...	3.2	.5	5.2	33	10	12	9.7	<.1	4.3	6.7	.41
MAR											
28...	2.8	.6	6.3	37	9	11	10.9	<.1	3.9	4.9	.56
APR											
12...	3.0	.6	6.9	37	12	15	10.6	.1	4.3	5.2	.54
25...	3.1	.6	6.4	36	11	13	9.8	.1	4.4	5.1	.62
MAY											
11...	3.0	.6	7.2	36	16	19	11.1	<.1	5.2	6.4	.73
23...	3.3	.7	8.7	38	18	22	13.0	.1	5.8	9.2	.46
JUN											
14...	4.0	1	13.4	48	21	26	14.7	.2	4.1	11.1	.51
28...	3.4	1	11.1	45	--	--	12.6	.1	5.5	8.6	.47
JUL											
12...	3.2	.9	9.5	44	20	24	9.9	.1	4.6	7.7	.51
24...	3.9	1	10.2	45	18	22	10.5	.2	5.2	9.8	.51
AUG											
10...	3.2	.7	7.8	40	19	23	6.6	<.1	5.5	3.7	.78
17...	3.7	.6	6.9	34	18	22	8.1	.1	7.0	5.3	.82
SEP											
20...	3.6	.7	7.6	38	14	18	9.6	.1	8.1	7.4	.55
25...	4.4	.7	7.0	38	11	14	9.9	.1	7.0	8.1	.60

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
OCT											
29...	.64	.030	--	.49	.98	.86	.339	--	<.010	.61	.178
NOV											
30...	.68	.066	--	.50	1.4	1.3	.709	--	<.010	.62	.212
DEC											
13...	.49	.053	.816	.44	1.3	1.3	.826	.033	.010	.44	.156
JAN											
11...	.70	.108	.806	.51	1.5	1.4	.820	.046	.014	.60	.184
FEB											
15...	.57	.069	1.00	.34	1.6	1.4	1.01	.036	.011	.50	.067
MAR											
28...	.62	.057	--	.51	1.2	1.1	.578	--	<.010	.56	.101
APR											
12...	.59	.072	.709	.47	1.3	1.3	.719	.033	.010	.52	.199
25...	.68	.061	.556	.56	1.2	1.2	.566	.033	.010	.62	.199
MAY											
11...	.77	.262	.807	.47	1.6	1.6	.828	.069	.021	.51	.190
23...	.52	.061	--	.40	1.4	1.3	.885	--	<.010	.46	.184
JUN											
14...	.61	.046	--	.47	1.5	1.4	.859	--	<.010	.56	.110
28...	.60	.049	--	.42	1.3	1.2	.727	--	<.010	.55	.276
JUL											
12...	.62	.053	--	.46	1.2	1.1	.601	--	<.010	.57	.221
24...	.57	.053	--	.46	1.2	1.1	.638	--	<.010	.52	.227
AUG											
10...	.88	.052	--	.73	.96	.87	.086	--	<.010	.83	.202
17...	.90	.129	.355	.69	1.3	1.2	.368	.043	.013	.77	.297
SEP											
20...	.64	.067	--	.48	1.3	1.2	.623	--	<.010	.58	.245
25...	.85	.052	--	.55	1.5	1.2	.642	--	<.010	.80	.245

02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 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)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT											
29...	.080	.058	.019	--	--	17	554	60	37	1240	24
NOV											
30...	.090	.069	.142	12	.4	--	164	80	55	1720	40
DEC											
13...	.060	.051	.109	9.4	.2	--	114	69	53	1470	23
JAN											
11...	.070	.060	.131	8.9	.8	--	192	73	49	1110	23
FEB											
15...	.036	.022	.084	7.5	.3	--	386	69	46	490	15
MAR											
28...	.048	.033	.099	9.4	.3	--	172	60	44	710	26
APR											
12...	.075	.065	.139	9.8	.4	--	89.9	58	49	1230	37
25...	.083	.065	.127	11	.3	--	155	71	46	1350	35
MAY											
11...	.091	.062	.109	8.8	.4	--	76.5	75	56	1040	72
23...	.074	.060	.142	7.6	.3	--	43.2	82	65	790	77
JUN											
14...	.052	.036	.163	7.6	<.2	--	38.7	89	74	360	81
28...	.119	.090	.199	8.1	.3	--	32.4	85	69	910	101
JUL											
12...	.097	.072	.163	9.5	.4	--	43.2	77	58	560	59
24...	.104	.074	.165	8.3	.2	--	46.3	79	62	640	62
AUG											
10...	.096	.066	.134	16	.4	--	421	80	47	730	37
17...	.131	.097	.219	14	--	--	121	87	54	1990	92
SEP											
20...	.103	.080	.168	11	.4	--	61.5	87	57	1420	82
25...	.103	.080	.207	12	1.4	--	178	81	54	880	42

DATE	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	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)
OCT											
29...	<.003	<.002	.006	<.002	.007	<.002	<.002	<.003	<.003	<.004	<.004
NOV											
30...	<.003	<.002	<.002	<.002	.006	<.002	<.002	<.003	<.003	<.004	<.004
DEC											
13...	<.003	<.002	E.005	<.002	E.003	<.002	<.002	<.003	<.003	<.004	<.004
JAN											
11...	<.003	<.002	.006	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004
FEB											
15...	<.003	<.002	.005	<.002	.005	<.002	<.002	E.008	<.003	<.004	<.004
MAR											
28...	<.003	<.002	.005	<.002	.063	<.002	<.002	<.003	<.003	<.004	<.004
APR											
12...	<.003	<.002	.014	<.002	.057	<.002	<.002	E.004	<.003	<.004	<.004
25...	<.003	<.002	.014	<.002	.106	<.002	<.002	E.009	<.040	<.004	<.004
MAY											
11...	<.003	<.002	.011	<.002	.047	<.002	<.002	<.006	<.003	<.004	<.004
23...	<.003	<.002	.009	<.002	.019	<.002	<.002	E.007	<.003	<.004	<.004
JUN											
14...	<.003	<.002	.007	<.002	.039	<.002	<.002	<.006	<.003	<.004	<.004
28...	<.003	<.002	.006	<.002	.026	<.002	<.002	E.005	<.003	<.004	<.007
JUL											
12...	<.003	<.002	<.010	<.002	.019	<.002	<.002	E.027	<.003	<.004	.020
24...	<.003	<.002	<.002	<.002	.021	<.002	<.002	E.052	<.003	<.004	.015
AUG											
10...	<.003	<.002	<.002	<.002	.014	<.002	<.002	<.003	<.003	<.004	.012
17...	<.003	<.002	<.002	<.002	.010	<.002	<.002	E.012	<.030	E.003	.007
SEP											
20...	<.003	<.002	<.002	<.002	.008	<.002	<.002	E.004	<.003	E.002	.007
25...	<.003	<.002	<.002	<.002	.006	<.002	<.002	E.006	<.003	<.004	<.004

02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued

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

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
OCT											
29...	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
NOV											
30...	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
DEC											
13...	<.002	<.002	E.003	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
JAN											
11...	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
FEB											
15...	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
MAR											
28...	<.002	E.004	E.001	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
APR											
12...	<.002	E.005	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
25...	<.002	E.009	E.003	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
MAY											
11...	<.002	E.005	.004	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
23...	<.002	E.005	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
JUN											
14...	<.002	E.005	.006	<.001	<.017	E.002	<.004	<.003	<.003	<.004	<.002
28...	<.002	E.003	.006	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
JUL											
12...	<.002	<.002	E.004	<.001	<.017	E.003	<.004	<.003	<.003	<.004	<.002
24...	<.002	E.005	.014	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
AUG											
10...	<.002	E.004	<.002	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
17...	<.002	E.001	.009	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
SEP											
20...	E.002	E.003	.007	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002
25...	<.002	E.003	.008	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002

DATE	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARATHION, DISSOLVED (UG/L) (39542)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT											
29...	.008	<.001	<.006	.013	<.004	<.004	<.003	<.006	<.004	<.004	<.004
NOV											
30...	<.005	<.001	<.006	.013	<.004	<.004	<.003	<.006	<.004	<.004	<.004
DEC											
13...	.006	<.001	<.006	.013	<.004	<.004	<.003	<.006	<.004	<.004	<.004
JAN											
11...	.006	<.001	<.006	.018	<.004	<.004	<.003	<.006	<.004	<.004	<.004
FEB											
15...	<.005	<.001	<.006	.017	<.004	<.004	<.003	<.006	<.004	<.004	<.004
MAR											
28...	<.005	<.001	<.006	.013	<.004	<.004	<.003	<.006	<.004	<.004	<.004
APR											
12...	<.005	<.001	<.006	.044	<.004	<.004	<.003	<.006	<.004	<.004	<.004
25...	<.005	<.001	<.006	.077	<.004	<.004	.005	<.006	<.004	<.004	<.004
MAY											
11...	<.005	<.010	<.006	.078	<.004	<.004	<.003	<.006	<.004	<.004	<.004
23...	<.005	<.001	<.006	.018	<.004	<.004	<.003	<.006	<.004	<.004	<.004
JUN											
14...	<.005	<.010	<.006	.026	<.004	<.004	<.003	<.006	<.004	<.004	<.004
28...	<.005	<.001	<.006	.020	<.004	<.004	<.003	<.006	<.004	<.004	<.004
JUL											
12...	<.005	<.001	<.006	.106	<.004	<.004	<.003	<.006	<.004	<.004	<.004
24...	<.005	<.001	<.006	.068	<.004	<.004	<.003	<.006	<.004	<.004	<.004
AUG											
10...	<.005	<.001	<.006	.024	<.010	<.004	<.003	<.006	<.004	<.004	<.004
17...	.007	<.020	<.006	.030	<.010	<.004	<.003	<.006	<.004	<.004	<.004
SEP											
20...	<.005	<.001	<.006	.010	<.004	<.004	<.003	<.006	<.004	<.004	<.004
25...	<.005	<.001	<.006	.015	<.004	<.004	<.003	<.006	<.004	<.004	<.004

02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued

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

DATE	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)	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)
OCT										
29...	<.005	<.002	E.010	<.003	<.007	<.004	<.013	E.004	<.010	<.007
NOV										
30...	<.005	<.002	E.008	<.003	<.007	<.004	<.013	<.005	<.010	<.007
DEC										
13...	<.005	<.002	E.005	<.003	<.007	<.004	<.013	E.003	<.010	<.007
JAN										
11...	<.005	<.002	E.011	<.003	<.007	<.004	<.013	E.003	E.006	<.007
FEB										
15...	<.005	<.002	E.008	<.003	<.007	<.004	<.013	.007	<.010	<.007
MAR										
28...	<.005	<.002	E.011	<.003	<.007	<.004	<.013	.032	E.025	<.007
APR										
12...	<.005	<.002	E.015	<.003	<.007	<.004	<.013	.030	E.033	<.007
25...	<.005	<.002	E.013	<.003	<.007	<.004	<.013	.042	.089	<.007
MAY										
11...	<.005	<.002	E.017	<.003	<.007	<.004	<.013	.019	.022	<.007
23...	<.005	<.002	.042	<.003	<.007	<.004	<.013	.015	.031	<.007
JUN										
14...	<.005	<.002	.054	<.003	<.007	<.004	<.013	.015	.050	<.006
28...	<.005	<.002	.118	<.003	<.007	<.004	<.013	.006	.055	<.007
JUL										
12...	<.005	<.002	E.069	<.003	<.007	<.004	<.013	.020	.093	<.007
24...	<.005	<.002	.104	<.003	<.007	<.004	<.013	.012	E.153	<.007
AUG										
10...	<.005	<.002	.035	<.003	<.007	<.004	<.013	.017	.012	<.007
17...	<.005	<.002	.214	<.003	<.007	<.004	<.013	.027	E.031	<.007
SEP										
20...	<.005	<.002	.025	<.003	<.007	<.004	<.013	<.005	.018	<.007
25...	<.005	<.002	.028	<.003	<.007	<.004	<.013	<.005	.021	<.007

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
29...	<.013	--	<.002	<.001	<.002	--	--	4	37	77
NOV										
30...	<.013	--	<.002	<.001	<.002	19.8	1.6	9	18	95
DEC										
13...	<.013	E.006	<.002	<.001	<.002	21.8	1.6	4	6.6	89
JAN										
11...	<.013	E.014	<.002	<.001	<.002	21.1	1.6	7	18	92
FEB										
15...	<.013	--	<.002	<.001	<.002	24.3	1.9	8	45	87
MAR										
28...	<.013	--	<.002	<.001	<.002	--	--	7	20	88
APR										
12...	<.013	--	<.002	<.001	<.002	22.1	1.6	6	9.3	90
25...	<.013	--	<.002	<.001	<.002	29.1	2.6	6	13	91
MAY										
11...	<.013	--	<.002	<.001	<.002	--	--	6	6.1	88
23...	<.013	--	<.002	<.001	<.002	--	--	8	4.2	81
JUN										
14...	<.013	--	<.002	<.001	<.002	26.9	1.9	11	4.8	72
28...	<.013	E.002	<.002	<.001	<.002	33.9	2.6	11	4.2	60
JUL										
12...	<.013	--	<.002	<.001	<.002	28.5	1.9	9	5.1	72
24...	<.013	--	<.002	<.001	<.002	--	--	11	6.4	52
AUG										
10...	<.013	--	<.002	<.001	<.002	--	--	7	37	73
17...	<.013	--	<.002	<.001	<.002	--	--	13	18	80
SEP										
20...	<.013	--	<.002	<.001	E.004	--	--	9	6.4	88
25...	<.013	--	<.002	<.001	<.002	--	--	16	35	86

02091700 LITTLE CONTENTNEA CREEK NEAR FARMVILLE, NC

LOCATION.--Lat 35°32'40", long 77°30'41", Pitt County, Hydrologic Unit 03020203, at bridge on U.S. Highway 264, 1.5 mi above Middle Swamp and 5.5 mi southeast of Farmville.

DRAINAGE AREA.--93.3 mi^2

PERIOD OF RECORD.--June to September 2000.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, FOR PERIOD JUNE 2000 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN												
01...	0930	12	769	63	5.8	6.5	174	19.2	24	6.70	1.80	3.1
JUL												
25...	1615	3.3	767	37	3.2	6.8	156	22.8	33	9.60	2.30	2.7
SEP												
27...	0830	E440	771	38	3.5	5.9	79	19.4	21	5.90	1.50	4.7

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 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, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
JUN												
01...	2	24.0	65	15.0	.2	3.1	12.0	.52	.56	.030	.49	.65
JUL												
25...	1	18.0	52	13.0	.2	4.5	2.3	.63	.90	.060	.57	1.1
SEP												
27...	.4	4.2	25	7.9	.1	5.2	7.1	.68	.78	.040	.64	.88

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)
JUN											
01...	.61	.090	<.010	.53	.140	.130	.240	12	112	890	14
JUL											
25...	.80	.170	<.010	.84	.220	.210	.260	11	105	1400	61
SEP											
27...	.78	.100	<.010	.74	.100	.100	.120	14	75	800	36

0209172000 SANDY RUN AT SECONDARY ROAD 1301 NEAR CASTORIA, NC

LOCATION.--Lat 35°31'54", long 77°39'10", Greene County, Hydrologic Unit 03020203, at Secondary Road 1301 and 1.4 mi east, southeast of Castoria.

DRAINAGE AREA.--8.8 mi^2

PERIOD OF RECORD.--June to September 2000.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, FOR PERIOD JUNE 2000 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN												
01...	1300	--	766	3	.3	6.0	103	18.4	33	9.00	2.60	2.0
JUL												
27...	0945	--	--	--	.2	6.2	160	22.1	42	12.0	2.80	2.2
SEP												
27...	1415	3.3	769	27	2.5	5.7	109	18.9	28	7.30	2.40	8.1

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 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, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
JUN												
01...	.4	5.6	25	9.9	.1	5.5	1.5	.71	.87	.240	.47	--
JUL												
27...	.4	5.2	20	7.2	.1	5.4	.9	.91	1.5	.140	.77	--
SEP												
27...	.4	4.8	21	14.0	.1	6.6	9.0	.82	.87	.090	.73	1.3

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)
JUN											
01...	--	<.020	<.010	.63	.090	.080	.330	11	66	1400	68
JUL											
27...	--	<.020	<.010	1.4	.180	.160	.490	14	105	3000	160
SEP											
27...	1.3	.450	<.010	.78	.080	.080	.090	14	96	580	19

0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC

LOCATION.--Lat 35°31'03", long 77°33'52", Greene County, Hydrologic Unit 03020203, at Secondary Road 1335, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.--0.34 mi^2

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 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										
18...	1350	7.2	761	--	5.0	4.1	--	19.5	10	2.60
NOV										
30...	1145	--	777	77	9.0	5.4	148	9.2	49	14.0
FEB										
24...	1315	.23	774	89	9.5	4.8	126	13.2	35	10.0
MAR										
14...	1345	.19	770	77	8.1	5.0	105	13.8	--	--
30...	1015	.09	761	80	8.5	5.3	117	12.8	34	9.50
APR										
18...	1345	.53	760	53	5.2	4.7	82	16.0	26	7.00
MAY										
30...	1445	.00	768	43	4.3	6.0	232	16.6	82	28.0
JUN										
26...	1600	.00	766	68	5.3	6.0	227	28.2	88	30.0
JUL										
25...	1145	.00	766	14	1.2	6.0	284	20.9	90	32.0
AUG										
24...	0945	.00	769	11	1.0	6.1	290	22.9	110	38.0
SEP										
26...	1530	1.4	765	61	5.6	4.3	117	20.0	33	9.10

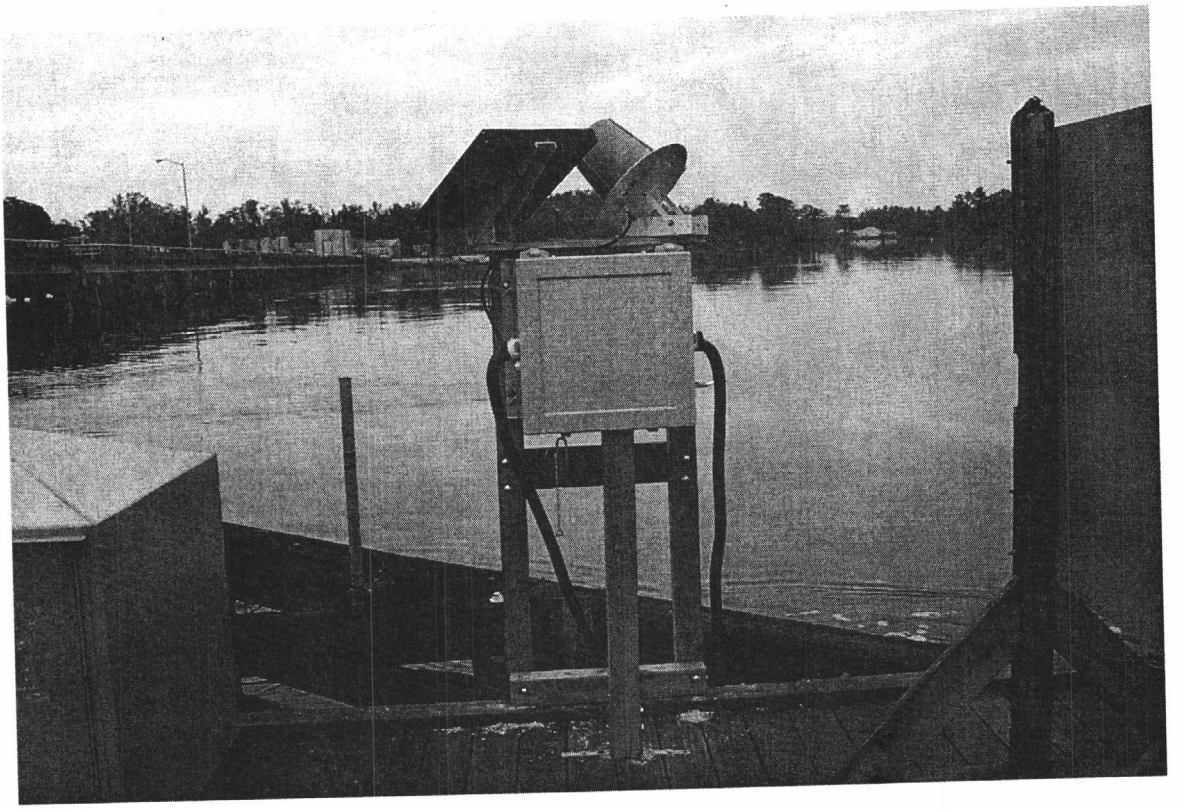
DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT										
18...	.80	2.0	.2	1.7	23	5.9	<.1	4.0	2.8	.84
NOV										
30...	3.30	4.0	.4	7.0	22	26.0	.2	9.0	13.0	.44
FEB										
24...	2.40	2.2	.4	5.4	24	18.0	.1	6.2	12.0	.39
MAR										
14...	--	--	--	--	--	--	--	--	--	--
30...	2.40	2.5	.4	5.7	25	19.0	.1	6.1	10.0	.32
APR										
18...	2.00	4.0	.5	5.7	29	15.0	<.1	6.4	6.1	.73
MAY										
30...	3.00	2.5	.3	6.0	13	23.0	.2	14.0	33.0	<.20
JUN										
26...	3.20	2.6	.3	6.4	13	25.0	.3	14.0	34.0	.43
JUL										
25...	2.40	2.4	.3	6.2	13	25.0	.2	16.0	48.0	.44
AUG										
24...	2.80	2.6	.2	5.7	10	29.0	.2	16.0	50.0	.48
SEP										
26...	2.50	7.8	.4	5.2	21	15.0	.1	7.9	9.8	1.3

0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC--Continued

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

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	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 DISSOLVED (MG/L AS P) (00666)
OCT										
18...	.92	.020	--	.82	1.5	1.5	.630	<.010	.90	.050
NOV										
30...	.52	.130	--	.31	4.9	4.8	4.40	<.010	.39	<.020
FEB										
24...	.53	.080	--	.31	4.2	4.1	3.70	<.010	.45	<.020
MAR										
14...	--	--	--	--	--	--	--	--	--	--
30...	.43	.100	--	.22	3.1	3.0	2.70	<.010	.33	<.020
APR										
18...	1.1	.020	--	.71	4.0	3.6	2.90	<.010	1.1	.020
MAY										
30...	.82	.180	2.48	--	3.3	--	2.50	.020	.64	.100
JUN										
26...	.87	.330	.300	.10	1.2	.75	.320	.020	.54	.050
JUL										
25...	3.1	.350	--	.10	3.1	.47	.030	<.010	2.8	.270
AUG										
24...	3.4	.260	--	.22	--	--	<.020	<.010	3.1	.140
SEP										
26...	1.4	.020	--	1.3	5.2	5.1	3.80	<.010	1.4	.060

DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
OCT										
18...	.050	.060	28	74	830	20	-48.80	-7.52	7.4	1.0
NOV										
30...	<.010	.030	6.6	129	380	38	--	--	21.1	1.6
FEB										
24...	<.010	<.020	5.4	88	210	25	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
30...	.010	.040	8.4	81	330	26	--	--	--	--
APR										
18...	.020	.080	20	94	1100	27	--	--	--	--
MAY										
30...	.100	.550	1.6	162	1100	180	--	--	--	--
JUN										
26...	.060	.290	4.2	182	4800	160	--	--	--	--
JUL										
25...	.240	1.70	3.1	208	4100	300	--	--	--	--
AUG										
24...	.120	1.30	1.9	216	5900	380	--	--	--	--
SEP										
26...	.060	.050	29	148	1100	37	--	--	--	--



USGS water-quality monitor at Pamlico River at Washington.

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'37", long 77°33'46", Greene County, Hydrologic Unit 03020203, Everet Murphy's farm, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.-- Aproximately 0.57 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 48.50 ft above sea level. Satellite telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 10 ft^3/s by logarithmic plotting. No flow occurs on many days during each year.

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	1.9	.32	.19	e.08	e.30	e.15	.10	.56	.02	.02	.05	.00
2	1.1	1.0	.16	e.09	e.20	e.15	.10	.42	.02	.01	.03	.00
3	.78	1.2	.16	e.09	e.18	e.15	.08	.28	.02	.01	.02	.00
4	.61	.75	.15	.19	e.16	e.15	.08	.22	.02	.01	.06	.59
5	.52	.61	.12	.28	.12	e.15	.06	.18	.05	.00	.07	1.2
6	.42	.66	.13	.15	.09	e.10	.05	.11	.10	.01	.03	.28
7	.33	.59	.14	.18	e.09	e.10	.03	.05	.03	.01	.01	.12
8	.29	.52	.13	.19	e.08	e.10	.04	.07	.02	.01	.01	.07
9	.29	.44	.14	.24	e.09	e.10	e.05	.08	.02	.00	.01	.03
10	.27	e.40	.27	.63	.07	.09	e.04	.06	.02	.00	.01	.02
11	.27	e.40	.22	.47	.11	.10	.04	.04	.02	.00	.01	.02
12	.22	e.40	.17	e.20	1.1	.27	.06	.04	.01	.00	.02	.01
13	.51	e.40	.14	e.10	2.0	.13	.06	.03	.01	.01	.01	.01
14	.88	e.40	.25	.07	3.2	.10	.12	.02	.01	.01	.01	.01
15	.67	e.30	.17	e.06	2.6	.06	.39	.02	.00	.01	.01	.01
16	.62	e.30	.10	e.06	e1.0	.12	.89	.02	.00	.01	.00	.01
17	27	e.25	.07	e.05	e.60	.75	.61	.03	.00	.00	.00	.01
18	11	.24	.05	.05	e.60	.48	.72	.02	.00	.00	.00	.04
19	4.1	.22	.11	.07	e.50	.34	.38	.02	.00	.00	.00	.03
20	2.9	.22	.15	.15	e.40	.37	.31	.02	.00	.00	.00	.02
21	2.6	.20	.15	.11	e.30	1.5	.21	.03	.00	.00	.00	.02
22	1.6	.18	.17	.10	e.30	1.1	.25	.03	.00	.00	.00	.02
23	1.1	e.16	.18	.26	e.30	.67	.26	.04	.03	.00	.00	4.1
24	.76	.39	.16	.65	e.25	.49	.27	.02	.01	.00	.00	2.4
25	.63	.39	.13	1.3	e.25	.39	1.4	.04	.01	.00	.00	1.9
26	.54	.38	e.08	.54	e.25	.31	1.0	.04	.01	.03	.00	3.5
27	.48	.45	e.08	.35	e.25	.26	.43	.03	.00	.02	.00	1.2
28	.42	.53	e.08	.19	e.25	.26	.93	.03	.00	.02	.00	.80
29	.35	.34	e.08	.09	e.15	.18	1.4	.07	.05	.02	.00	.61
30	.32	e.25	e.08	1.1	---	.14	.84	.09	.06	.03	.00	.47
31	.32	---	e.08	.54	---	.13	---	.02	---	.05	.00	---
TOTAL	63.80	12.89	4.29	8.63	15.79	9.39	11.20	2.73	0.54	0.29	0.36	17.50
MEAN	2.06	.43	.14	.28	.54	.30	.37	.088	.018	.009	.012	.58
MAX	27	1.2	.27	1.3	3.2	1.5	1.4	.56	.10	.05	.07	4.1
MIN	.22	.16	.05	.05	.07	.06	.03	.02	.00	.00	.00	.00
CFSM	3.61	.75	.24	.49	.96	.53	.65	.15	.03	.02	.02	1.02
IN.	4.16	.84	.28	.56	1.03	.61	.73	.18	.04	.02	.02	1.14

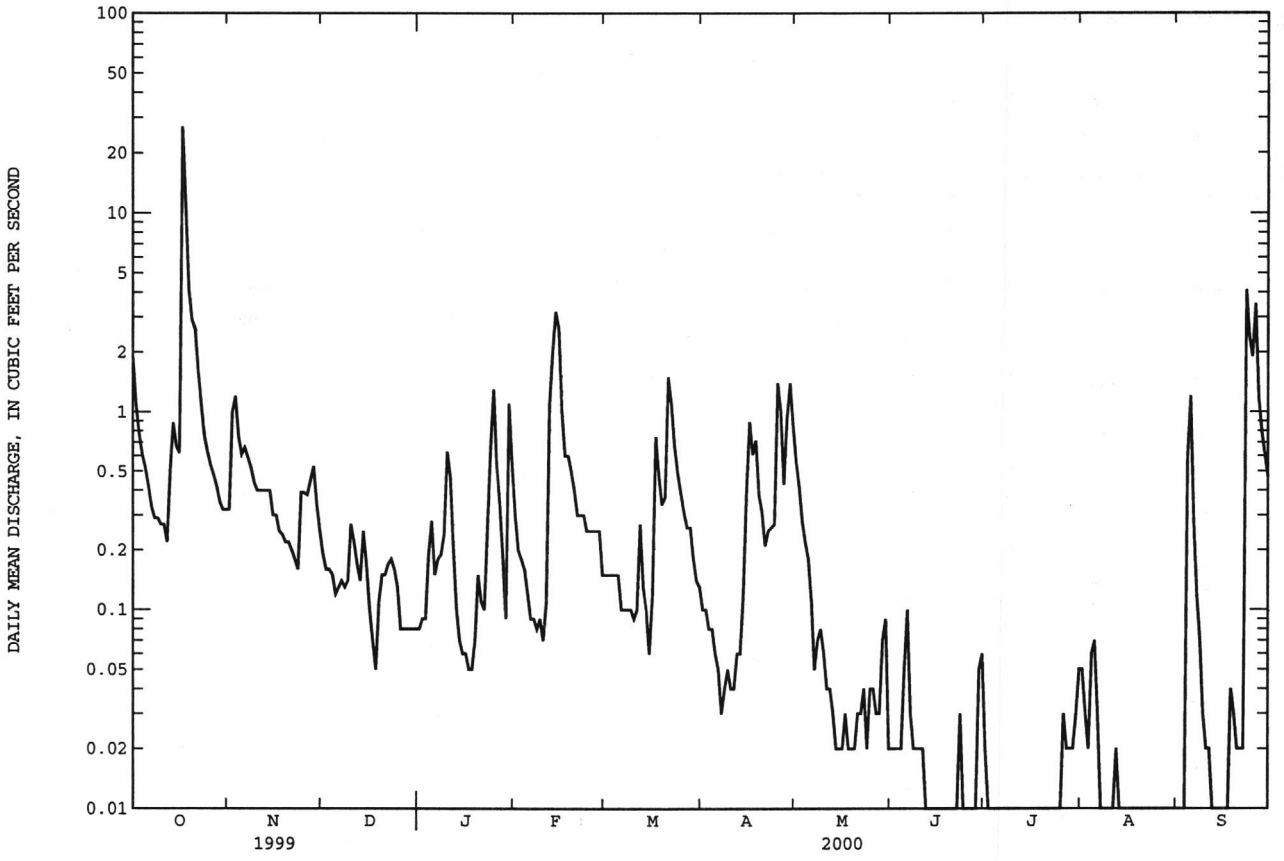
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	2.06	.43	.14	.28	.54	.30	.27	.15	.054	.023	.007	8.00
MAX	2.06	.43	.14	.28	.54	.30	.37	.21	.091	.036	.012	15.4
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	2000	1999
MIN	2.06	.43	.14	.28	.54	.30	.18	.088	.018	.009	.002	.58
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			147.41			
ANNUAL MEAN			.40		.40	
HIGHEST ANNUAL MEAN					.40	2000
LOWEST ANNUAL MEAN					.40	2000
HIGHEST DAILY MEAN	283	Sep 16	27	Oct 17	283	Sep 16 1999
LOWEST DAILY MEAN	.00	Jun 10	.00	Jun 15	.00	Jun 10 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 30	.00	Jun 15	.00	Jul 30 1999
INSTANTANEOUS PEAK FLOW			153	Oct 17	500	Sep 16 1999
INSTANTANEOUS PEAK STAGE			3.53	Oct 17	5.18	Sep 16 1999
INSTANTANEOUS LOW FLOW			.00*	Jun 15	.00*	Jun 10 1999
ANNUAL RUNOFF (CFSM)			.71		.71	
ANNUAL RUNOFF (INCHES)			9.62		9.60	
10 PERCENT EXCEEDS	1.6		.75		.93	
50 PERCENT EXCEEDS	.14		.11		.10	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.
* See REMARKS.

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued



0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

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

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (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											
18...	1200	--	8.9	761	--	6.1	4.6	--	19.2	27	6.20
NOV											
30...	1015	E.25	--	777	62	7.2	5.8	180	9.6	54	16.0
FEB											
18...	1315	E.60	--	772	64	7.7	5.8	184	7.5	42	12.0
MAR											
14...	1200	--	.07	770	77	8.9	5.6	175	9.4	--	--
29...	1215	--	.21	761	70	7.4	5.7	149	12.6	40	12.0
APR											
18...	1230	--	.80	760	69	6.9	5.6	137	15.6	35	10.0
MAY											
30...	1400	--	.05	768	20	2.0	6.3	248	16.4	53	16.0
JUN											
01...	1030	--	.03	768	29	2.8	6.0	232	17.5	--	--
26...	1515	--	.01	766	14	1.2	6.3	237	25.2	48	14.0
JUL											
25...	1015	--	.00	767	31	2.7	6.6	251	21.4	48	14.0
AUG											
24...	0915	--	.00	768	24	2.1	6.7	253	21.5	48	14.0
SEP											
26...	1400	--	2.6	764	71	6.4	5.2	145	20.0	36	10.0

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)	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)
OCT											
18...	2.70	10.0	.2	2.8	13	13.0	.1	4.9	5.6	.80	1.0
NOV											
30...	3.50	4.8	.5	8.8	24	26.0	.2	8.2	11.0	.92	1.1
FEB											
18...	2.90	5.1	.5	8.0	26	21.0	.1	6.3	10.0	2.3	2.2
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
29...	2.50	3.2	.5	6.9	25	20.0	.1	6.1	9.6	.92	1.1
APR											
18...	2.40	4.2	.5	6.6	26	19.0	.1	6.7	8.7	.95	1.3
MAY											
30...	3.10	8.5	.7	12.0	29	29.0	.2	6.1	6.1	5.6	5.9
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
26...	3.10	9.1	.9	14.0	34	30.0	.2	5.1	5.0	5.0	4.9
JUL											
25...	3.20	8.7	1	16.0	37	38.0	.2	3.7	5.8	4.8	5.7
AUG											
24...	3.20	9.8	1	16.0	36	39.0	.2	3.8	7.5	5.9	6.3
SEP											
26...	2.60	8.5	.5	6.2	22	17.0	.1	7.5	10.0	1.6	1.7

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

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

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	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 DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT											
18...	.090	--	.71	3.7	3.5	2.70	<.010	.91	.110	.110	.150
NOV											
30...	.760	5.95	.16	7.1	6.9	6.00	.050	.34	.020	.010	.050
FEB											
18...	1.80	5.58	.50	7.8	7.9	5.60	.020	.40	.070	.040	.070
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
29...	.970	3.47	--	4.6	4.4	3.50	.030	.13	<.020	.010	.060
APR											
18...	.540	2.67	.41	4.0	3.7	2.70	.030	.76	.030	.020	.090
MAY											
30...	6.00	2.20	--	8.2	7.9	2.30	.100	--	.080	.060	.220
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
26...	4.40	.200	.60	5.2	5.2	.250	.050	.50	.080	.080	.190
JUL											
25...	5.00	.060	--	5.8	4.9	.070	.010	.70	.080	.060	.250
AUG											
24...	5.60	.130	.30	6.5	6.1	.160	.030	.70	.020	.020	.130
SEP											
26...	.330	--	1.3	5.5	5.4	3.80	<.010	1.4	.090	.080	.130

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)
OCT											
18...	10	86	440	38	--	--	--	--	--	--	--
NOV											
30...	4.0	137	360	52	--	--	--	--	--	--	--
FEB											
18...	6.2	123	570	34	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	<.003	<.002	<.002	<.002	.009	<.002	<.002
29...	6.6	111	250	34	<.003	<.002	<.002	<.002	.007	<.002	<.002
APR											
18...	13	106	640	40	--	--	--	--	--	--	--
MAY											
30...	10	140	2100	47	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	<.003	<.002	<.002	<.002	.013	<.002	<.002
26...	10	133	1700	80	<.003	<.002	<.002	<.002	<.010	<.002	<.002
JUL											
25...	10	153	1400	69	<.003	<.002	<.002	<.002	<.004	<.002	<.002
AUG											
24...	8.7	141	380	49	<.003	<.002	<.002	<.002	<.001	<.002	<.002
SEP											
26...	24	156	980	41	<.003	<.002	<.002	<.002	.015	<.002	<.002

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

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

DATE	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
OCT											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	<.003	<.003	E.003	<.004	<.002	E.005	<.002	<.001	<.017	<.002	<.004
29...	<.003	<.003	<.004	<.004	<.002	E.005	<.002	<.001	<.017	<.002	<.004
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	<.003	E.14	<.004	<.004	<.002	E.008	<.002	<.001	<.017	<.002	<.004
26...	<.006	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004
JUL											
25...	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004
AUG											
24...	<.010	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004
SEP											
26...	<.003	E.016	<.004	<.004	<.002	E.008	<.002	<.001	<.017	<.002	<.004

DATE	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)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
OCT											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.009	<.004	<.004	<.003
29...	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.124	<.004	<.004	<.003
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.023	<.004	<.004	<.003
26...	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.022	<.004	<.004	<.003
JUL											
25...	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.009	<.004	<.004	<.003
AUG											
24...	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.010	<.004	<.004	<.003
SEP											
26...	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.039	<.004	<.004	<.003

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

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

DATE	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)	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)
OCT											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013
29...	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	<.006	<.004	<.004	<.004	<.005	<.002	E.005	<.003	<.007	<.004	<.013
26...	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013
JUL											
25...	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013
AUG											
24...	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013
SEP											
26...	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013

DATE	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)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
OCT											
18...	--	--	--	--	--	--	--	-45.90	-7.22	13.8	1.3
NOV											
30...	--	--	--	--	--	--	--	--	--	21.4	1.6
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	E.004	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--	--
29...	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--	--
26...	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--	--
JUL											
25...	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--	--
AUG											
24...	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--	--
SEP											
26...	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--	--	--	--

0209173192 DRAINAGE DITCH TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'37", long 77°33'46", Greene County, Hydrologic Unit 03020203, Everet Murphy's farm, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.-- Approximately 0.02 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum instantaneous discharge not determined. Minimum instantaneous discharge occurred on many days during the period.

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	.13	.03	.02	.01	.16	.02	.01	e.01	.00	.00	.01	.00
2	.09	.19	.01	.01	.11	.02	.00	e.00	.00	.00	.00	.00
3	.08	.11	.01	.01	.09	.02	.00	e.00	.00	.00	.00	.00
4	.07	.06	.01	.01	.08	.02	.01	e.00	.00	.00	.00	.00
5	.06	.05	.01	.01	.06	.01	.00	e.00	.00	.00	.01	.00
6	.05	.05	.02	.01	.06	.01	.00	e.02	.00	.00	.00	.00
7	.04	.04	.01	.01	.05	.01	.00	e.00	.00	.00	.00	.00
8	.04	.04	.01	.01	.04	.01	.00	e.00	.00	.00	.00	.00
9	.03	.03	.01	.01	.05	.01	.01	e.00	.00	.00	.00	.00
10	.03	.03	.01	.23	.04	.01	.01	.00	.00	.00	.00	.00
11	.03	.03	.00	.11	.04	.01	.01	.00	.00	.00	.00	.00
12	.03	.03	.00	.05	.12	.04	.00	.00	.00	.00	.00	.00
13	.03	.03	.01	.04	.13	.01	.00	.00	.00	.00	.00	.00
14	.03	.03	.02	.03	.27	.01	.00	.00	.00	.00	.00	.00
15	.02	.02	.01	.03	.14	.01	.02	.00	.00	.00	.00	.00
16	.02	.02	.01	.03	.09	.02	.02	.00	.00	.00	.00	.00
17	14	.01	.01	.02	.06	.08	.01	.00	.00	.00	.00	.00
18	.58	.01	.01	.02	.07	.03	.06	.00	.00	.00	.00	.00
19	.15	.01	.02	.02	.06	.02	.03	.00	.00	.00	.00	.00
20	.18	.01	.02	.04	.05	.03	.01	.00	.00	.00	.00	.00
21	.18	.01	.02	.03	.04	.13	.01	.00	.00	.00	.00	.00
22	.12	.01	.02	.02	.04	.05	.01	.00	.00	.00	.00	.00
23	.09	.01	.01	.08	.04	.04	.01	.00	.00	.00	.00	.27
24	.07	.04	.01	.16	.03	e.04	.01	.00	.00	.00	.00	.11
25	.06	.05	.01	.60	.03	e.03	.21	.00	.00	.00	.00	.19
26	.05	.04	.01	.22	.03	e.03	.06	.00	.00	.00	.00	.36
27	.05	.04	.01	.13	.03	e.02	.03	.00	.00	.00	.00	.06
28	.04	.03	.01	.09	.03	e.01	.09	.00	.00	.00	.00	.04
29	.04	.02	.01	.08	.02	e.03	.04	.00	.00	.00	.00	.02
30	.03	.02	.01	.56	---	e.01	.01	.00	.00	.00	.00	.02
31	.03	---	.01	.44	---	.01	---	.00	---	.01	.00	---
TOTAL	16.45	1.10	0.36	3.12	2.06	0.80	0.68	0.03	0.00	0.01	0.02	1.07
MEAN	.53	.037	.012	.10	.071	.026	.023	.001	.000	.000	.001	.036
MAX	14	.19	.02	.60	.27	.13	.21	.02	.00	.01	.01	.36
MIN	.02	.01	.00	.01	.02	.01	.00	.00	.00	.00	.00	.00
CFSM	26.5	1.83	.58	5.03	3.55	1.29	1.13	.05	.00	.02	.03	1.78
IN.	30.60	2.05	.67	5.80	3.83	1.49	1.26	.06	.00	.02	.04	1.99

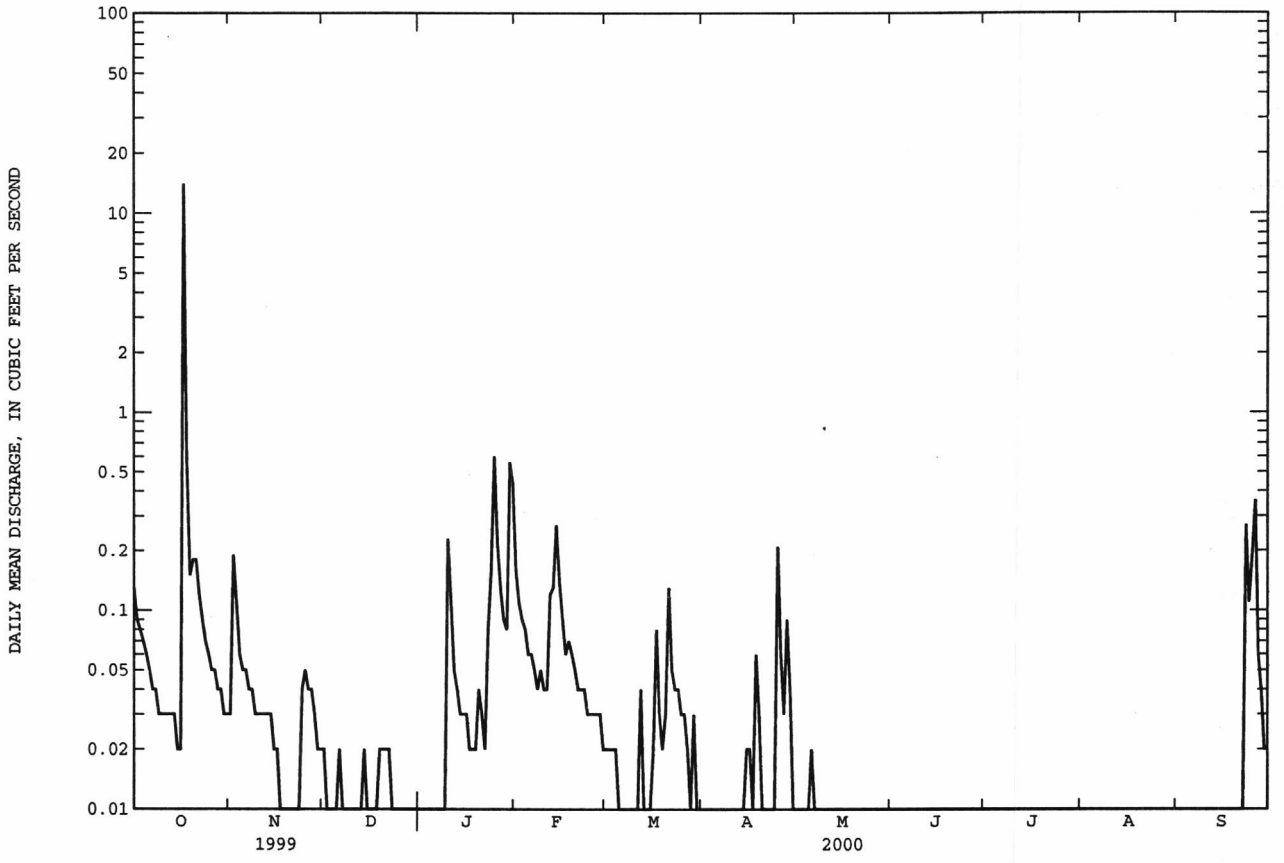
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	.53	.037	.012	.10	.071	.026	.013	.003	.001	.000	.000	.42
MAX	.53	.037	.012	.10	.071	.026	.023	.005	.001	.000	.001	.81
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	2000	2000	1999
MIN	.53	.037	.012	.10	.071	.026	.004	.001	.000	.000	.000	.036
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	1999	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			25.70			
ANNUAL MEAN			.070		.070	
HIGHEST ANNUAL MEAN					.070	2000
LOWEST ANNUAL MEAN					.070	2000
HIGHEST DAILY MEAN	14	Oct 17	14	Oct 17	14	Oct 17 1999
LOWEST DAILY MEAN	.00	Mar 19	.00	Dec 11	.00	Mar 19 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 29	.00	May 7	.00	Mar 29 1999
INSTANTANEOUS PEAK FLOW			118	Oct 17	NOT DETERMINED*	
INSTANTANEOUS PEAK STAGE			2.79	Oct 17	4.43	Sep 16 1999
INSTANTANEOUS LOW FLOW			.00*	Dec 11	.00*	Apr 1 1999
ANNUAL RUNOFF (CFSM)			3.51		3.51	
ANNUAL RUNOFF (INCHES)			47.80		47.70	
10 PERCENT EXCEEDS	.10		.08		.09	
50 PERCENT EXCEEDS	.00		.01		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.
* See REMARKS.

0209173192 DRAINAGE DITCH TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued



0209173192 DRAINAGE DITCH TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 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										
18...	1230	.39	761	--	6.4	5.6	--	19.2	14	3.80
NOV										
30...	1100	.02	777	82	9.6	6.0	119	9.2	36	8.60
FEB										
18...	1215	.07	772	90	10.9	5.9	163	7.9	46	11.0
MAR										
14...	1230	.01	770	76	8.2	5.3	118	12.4	--	--
APR										
18...	1200	.09	760	64	6.3	6.4	145	15.4	37	8.60
SEP										
26...	1430	.18	764	71	6.5	5.8	176	20.0	34	8.00

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)	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)
OCT										
18...	1.00	3.1	.3	2.6	24	6.1	<.1	4.3	3.4	1.2
NOV										
30...	3.50	6.2	.3	4.7	19	24.0	.1	7.5	6.8	.30
FEB										
18...	4.50	7.0	.3	4.4	15	21.0	.1	5.8	9.2	<.20
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
18...	3.80	8.5	.4	5.2	19	25.0	.1	5.2	7.5	.80
SEP										
26...	3.40	22.0	.3	4.3	13	25.0	.2	6.8	10.0	1.5

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT										
18...	1.1	.350	1.09	.85	2.2	2.3	1.10	.010	.75	.090
NOV										
30...	.36	.080	--	.22	1.7	1.6	1.30	<.010	.28	<.020
FEB										
18...	.29	.050	--	--	5.4	--	5.10	<.010	.24	<.020
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
18...	1.1	.030	--	.77	2.0	1.7	.910	<.010	1.1	.050
SEP										
26...	<.20	.050	--	1.5	--	3.8	2.30	<.010	--	.200

0209173192 DRAINAGE DITCH TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

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

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
OCT										
18...	.110	.120	26	86	760	24	-47.20	-7.41	8.3	1.0
NOV										
30...	<.010	.020	3.0	83	180	64	--	--	22.4	1.6
FEB										
18...	.020	<.020	2.4	111	100	33	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
18...	.020	.130	11	111	320	31	--	--	--	--
SEP										
26...	.160	.190	19	151	350	45	--	--	--	--

0209173196 WEATHER STATION NEAR LIZZIE, NC

LOCATION.--Lat 35°31'30", long 77°33'42", Greene County, Hydrologic Unit 03020203, Everet Murphy's farm, approximately 6.0 mi south of Farmville.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

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

DATE	TIME	ENDING TIME	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
MAR 29-APR 18	1400	1255	7.4	10	.6	.16	.05	.15	.3	.5	55
MAY 25-30	1225	1245	7.6	36	.3	.08	.02	.05	--	E.1	--
JUN 13-26	1305	1415	5.2	14	.3	.08	.02	.06	.1	.1	43
JUN 26-29	1430	1429	4.7	13	.2	.05	.01	.05	.1	.1	49
JUN 29-JUL 25	1500	0930	5.6	30	.3	.09	.02	.05	--	E.1	--
AUG 24-SEP 05	0820	1400	6.6	23	.2	.04	.02	.05	.2	.1	59
SEP 05-26	1403	1445	6.6	5	--	.03	E.01	.03	--	.1	--
SEP 26-NOV 28	1450	0845	3.8	16	0	.08	.03	.30	.1	.2	36

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PRECIP-ITATION TOTAL INCHES (00045)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)
MAR 29-APR 18	.8	<.1	1.1	.269	.202	.205	.003	.003	2.03	<.01
MAY 25-30	.2	<.1	1.5	.153	.247	.253	.006	<.001	.77	<.01
JUN 13-26	.2	<.1	2.1	.720	.304	.341	.037	<.001	1.36	<.01
JUN 26-29	.2	<.1	1.0	.970	.196	.229	.033	<.001	1.15	<.01
JUN 29-JUL 25	.2	<.1	2.7	10.0	.540	.543	.003	.001	1.60	<.01
AUG 24-SEP 05	.2	<.1	.7	.489	.156	.159	.003	.002	3.33	<.01
SEP 05-26	.1	<.1	.6	.206	.106	.108	.002	<.001	4.39	<.01
SEP 26-NOV 28	--	<.1	1.5	.596	.336	.338	.002	<.007	1.65	<.01

0209173196 WEATHER STATION NEAR LIZZIE, NC--Continued

PRECIPITATION RECORDS

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

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

REMARKS.--Precipition gage is operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR 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	.00
2	.00	.99	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
3	.00	.00	.00	.00	.00	.00	.00	.00	.21	.00	.21	.25
4	.01	.00	.00	.42	.00	.00	.03	.00	.29	.00	.20	1.86
5	.00	.00	.00	.01	.00	.00	.00	.00	.42	.13	.11	.13
6	.00	.00	.02	.00	.00	.00	.00	.00	.01	.31	.00	.00
7	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.46	.00	.00	.00	.00	.00
9	.00	.00	.00	.22	.00	.00	.01	.00	.00	.02	.26	.00
10	.00	.00	.00	1.02	.00	.00	.00	.00	.00	.00	.02	.00
11	.01	.00	.01	.00	.00	.11	.00	.00	.00	.00	.29	.00
12	.00	.00	.00	.00	.75	.54	.00	.00	.00	.51	.00	.00
13	.20	.00	.00	.00	.00	.00	.10	.00	.00	.01	.09	.00
14	.00	.00	.02	.00	.39	.00	.10	.00	.01	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.89	.00	.00	.03	.00	.00
16	.08	.00	.00	.00	.00	.52	.00	.00	.00	.00	.00	.00
17	5.99	.00	.00	.00	.00	.23	.01	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.42	.00	.21	.00	.18	.89
19	.00	.00	.00	.18	.00	.00	.00	.00	.05	.01	.00	.00
20	.39	.00	.01	.27	.00	.42	.00	.00	.02	.01	.00	.00
21	.05	.00	.00	.00	.00	.29	.00	.00	.00	.24	.00	.10
22	.00	.00	.01	.00	.00	.00	.00	.04	1.07	.11	.00	.28
23	.00	---	.00	.68	.00	.00	.00	.00	.00	.00	.00	2.10
24	.00	---	.00	.73	.00	.00	.08	.00	.00	.16	.00	.00
25	.00	---	.00	.32	.00	.00	1.16	.00	.00	.42	.02	1.01
26	.00	---	.00	.09	.00	.00	.00	.00	.00	.52	.00	.01
27	.00	---	.00	.02	.03	.20	.09	.17	.01	.00	.08	.00
28	.00	---	.00	.02	.03	.01	.46	.58	.11	.34	.11	.00
29	.00	---	.00	.00	.00	.00	.01	.02	1.04	.00	.11	.00
30	.00	---	.00	.66	---	.01	.00	.00	.00	.50	.68	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.27	.08	---
TOTAL	6.73	---	---	4.73	1.20	2.33	3.82	0.81	3.45	3.59	2.44	6.64

0209173200 SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'53", long 77°33'32", Greene County, Hydrologic Unit 03020203, at bridge on Secondary Road 1345, 0.2 mi above mouth and 4.0 mi northeast of Lizzie.

DRAINAGE AREA.--Approximately 29.0 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 43 ft above sea level, from topographic map.

REMARKS.--Records fair above 50 ft^3/s except those for estimated daily discharges, which are poor. Maximum gage height for period probably occurred on Sept. 17, 1999. Maximum gage height for period from floodmarks. Minimum instantaneous flow for period is not determined.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	14	e11	1.4	3.6	e.40	e.12
2	---	---	---	---	---	---	16	e9.5	e1.0	3.2	e.40	e.10
3	---	---	---	---	---	---	16	e8.0	e.80	2.4	.39	e.09
4	---	---	---	---	---	---	14	e7.0	e.80	1.9	e.15	2.4
5	---	---	---	---	---	---	13	e5.5	e.60	e.60	e.10	311
6	---	---	---	---	---	---	12	e4.5	e.50	e.40	e.10	394
7	---	---	---	---	---	---	10	2.3	e.50	e.20	.12	167
8	---	---	---	---	---	---	9.9	e2.0	e.30	e.20	.06	118
9	---	---	---	---	---	---	7.1	e2.0	e.20	e.15	e.08	93
10	---	---	---	---	---	---	7.5	1.9	e.20	e.10	e.08	64
11	---	---	---	---	---	---	15	1.4	e.20	e.10	e.06	52
12	---	---	---	---	---	---	55	1.4	e.20	e.15	e.07	64
13	---	---	---	---	---	---	48	1.3	e.10	e.50	e.06	50
14	---	---	---	---	---	---	26	63	e.10	5.2	e.08	43
15	---	---	---	---	---	---	18	171	1.9	6.2	e.09	160
16	---	---	---	---	---	---	15	124	59	9.3	e.08	e1300
17	---	---	---	---	---	---	11	90	61	14	e.07	e1760
18	---	---	---	---	---	---	e11	58	46	7.5	e.07	e650
19	---	---	---	---	---	---	e10	31	23	5.0	e.06	e260
20	---	---	---	---	---	---	e9.0	19	16	3.3	e.07	e110
21	---	---	---	---	---	---	e7.0	15	20	1.2	e.08	e180
22	---	---	---	---	---	---	e5.5	11	17	e.90	e.08	e120
23	---	---	---	---	---	---	e4.5	6.9	14	e.90	e.08	e100
24	---	---	---	---	---	---	e4.0	6.5	12	e1.0	e.06	e70
25	---	---	---	---	---	---	e3.5	e6.5	9.8	e1.5	e.05	e50
26	---	---	---	---	---	---	e3.0	6.4	6.8	e2.0	e.05	e40
27	---	---	---	---	---	---	e2.5	e6.0	e6.0	1.5	e.05	e45
28	---	---	---	---	---	---	e3.0	4.5	5.7	e1.3	.03	e860
29	---	---	---	---	---	---	e6.5	3.5	5.5	1.2	e.05	e740
30	---	---	---	---	---	---	e8.0	2.8	e3.0	.57	e.09	e410
31	---	---	---	---	---	---	---	1.9	---	.53	e.13	---
TOTAL	---	---	---	---	---	---	385.0	684.8	313.60	76.60	3.34	8213.71
MEAN	---	---	---	---	---	---	12.8	22.1	10.5	2.47	.11	274
MAX	---	---	---	---	---	---	55	171	61	14	.40	1760
MIN	---	---	---	---	---	---	2.5	1.3	.10	.10	.03	.09
CFSM	---	---	---	---	---	---	.45	.77	.37	.09	.00	9.57
IN.	---	---	---	---	---	---	.50	.89	.41	.10	.00	10.68

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD APRIL TO SEPTEMBER 1999

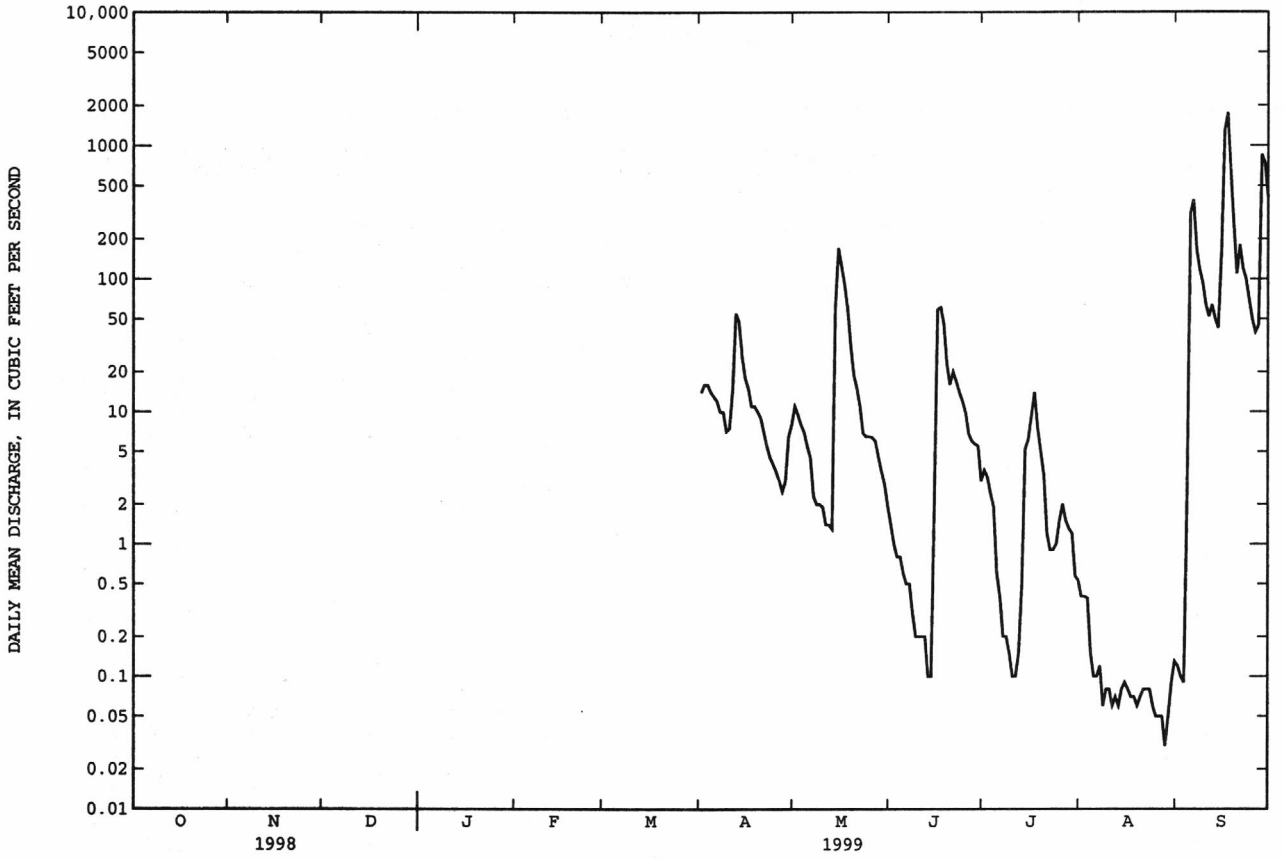
MEAN	---	---	---	---	---	---	12.8	22.1	10.5	2.47	.11	274
MAX	---	---	---	---	---	---	12.8	22.1	10.5	2.47	.11	274
(WY)	---	---	---	---	---	---	1999	1999	1999	1999	1999	1999
MIN	---	---	---	---	---	---	12.8	22.1	10.5	2.47	.11	274
(WY)	---	---	---	---	---	---	1999	1999	1999	1999	1999	1999

SUMMARY STATISTICS — FOR PERIOD APRIL TO SEPTEMBER

HIGHEST DAILY MEAN	1760	Sep 17
LOWEST DAILY MEAN	.03	Aug 28
ANNUAL SEVEN-DAY MINIMUM	.05	Aug 23
INSTANTANEOUS PEAK FLOW	e3960	Sep 17*
INSTANTANEOUS PEAK STAGE	16.32*	Sep 17
INSTANTANEOUS LOW FLOW	NOT DETERMINED	
10 PERCENT EXCEEDS	97	
50 PERCENT EXCEEDS	4.5	
90 PERCENT EXCEEDS	.08	

e Estimated.
* See REMARKS.

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued



0209173200 SANDY RUN NEAR LIZZIE, 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	e190	e10	e10	e4.0	e160	e10	13	e50	e2.6	e.60	e9.0	2.2
2	e85	e25	e9.0	e4.0	e120	e10	e9.0	e40	e1.8	e.30	e4.0	2.6
3	e50	e95	e8.0	e4.0	e100	e9.0	e6.0	e30	e1.2	e.20	2.2	3.3
4	e40	e100	e6.0	e4.0	e90	e6.0	e5.0	e20	e1.0	e.20	2.5	9.2
5	e30	e70	e6.0	e12	e70	e5.0	e4.5	e18	e2.0	e.20	2.3	58
6	e25	e50	e6.0	e16	e60	e4.5	e4.0	e15	e3.5	1.6	1.9	76
7	e20	e35	e7.0	e15	e45	e4.0	e3.5	e10	e3.0	e3.0	2.7	49
8	e17	e30	e7.0	e10	e40	e4.0	e3.0	e9.0	e2.0	.99	4.4	23
9	e14	e20	e7.0	e12	e30	e3.5	e4.0	e7.0	e1.5	e.60	4.8	19
10	e12	e20	e8.0	e50	e28	e3.0	e4.5	e6.0	e1.0	e.50	3.1	11
11	e11	e16	e8.0	e120	e26	e3.0	e4.0	e5.0	e.70	e.30	3.2	11
12	e11	e14	e5.0	e90	e35	e10	e3.0	e4.0	e.50	e.60	3.3	12
13	e10	e13	e5.0	e62	e100	e16	e2.5	e3.0	e.40	e.50	9.9	10
14	e11	e10	e10	e40	e110	e10	e2.5	e2.0	e.30	e.50	12	10
15	e10	e10	e16	e30	e115	e8.0	e10	e1.5	e.25	e.30	8.9	9.0
16	e9.0	e8.0	e10	e22	e105	e7.0	e45	e1.0	e.15	e.30	5.2	5.6
17	e120	e6.0	e9.0	e18	e80	33	e65	e1.0	e.10	e.20	3.1	4.0
18	e830	e6.0	e6.0	e15	e60	76	e53	e.80	e.10	e.15	3.7	4.3
19	e580	e5.0	e8.0	e15	e55	33	e50	e.60	e.10	e.10	2.4	3.8
20	e330	e5.0	e14	e23	e50	21	e45	e.60	e.10	e.10	2.3	7.9
21	e160	e5.0	e15	e32	e40	55	e32	e.60	e.10	e.10	1.9	7.8
22	e120	e4.0	e16	e30	e30	95	e20	e.60	e.10	e.13	1.6	7.2
23	e100	e4.0	e21	e38	e26	70	e14	e.60	e1.0	e.14	1.6	45
24	e75	e7.0	e17	e85	e22	e50	e10	e.60	e2.0	e.14	e.80	262
25	e50	e30	e10	e160	e20	e30	e17	e.50	e.90	e.18	.72	226
26	e40	e32	e9.0	e170	e20	e25	e60	e.45	e.40	1.2	e.50	169
27	e30	e32	e8.0	e130	e15	e20	e50	e.40	e.30	e.60	.63	138
28	e20	e25	e6.0	e110	e15	e20	e40	e.50	e.20	e.60	.69	104
29	e15	e20	e5.0	e94	e13	e25	e75	e1.6	e2.0	e.90	.69	71
30	e13	e15	e5.0	e90	---	e22	e80	e2.7	e1.5	e3.5	.91	31
31	e11	---	e5.0	e180	---	e17	---	e3.0	---	e15	1.6	---
TOTAL	3039.0	722.0	282.0	1685.0	1680	705.0	734.5	236.05	30.80	33.73	102.54	1391.9
MEAN	98.0	24.1	9.10	54.4	57.9	22.7	24.5	7.61	1.03	1.09	3.31	46.4
MAX	830	100	21	180	160	95	80	50	3.5	15	12	262
MIN	9.0	4.0	5.0	4.0	13	3.0	2.5	.40	.10	.10	.50	2.2
CFSM	3.43	.84	.32	1.90	2.03	.80	.86	.27	.04	.04	.12	1.62
IN.	3.95	.94	.37	2.19	2.19	.92	.96	.31	.04	.04	.13	1.81

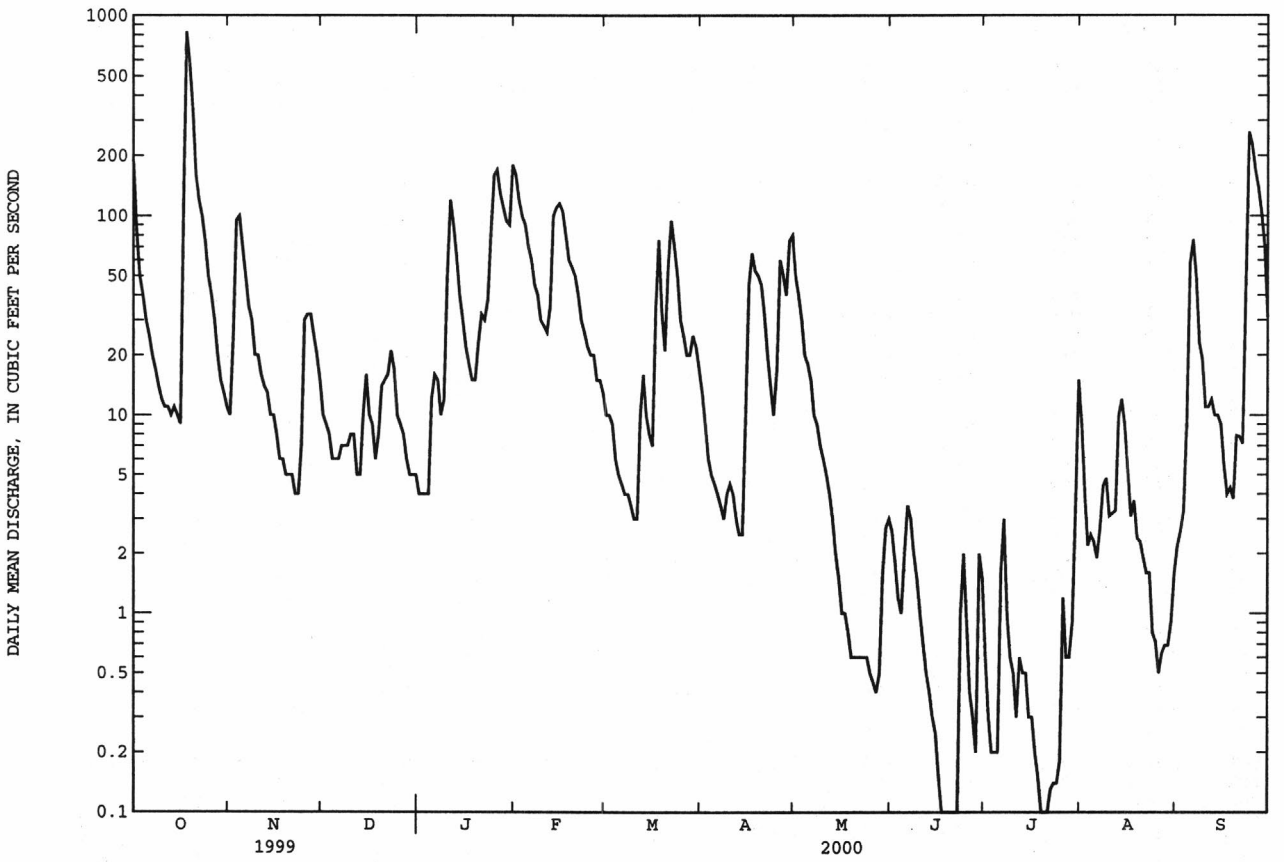
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	98.0	24.1	9.10	54.4	57.9	22.7	18.7	14.9	5.74	1.78	1.71	160
MAX	98.0	24.1	9.10	54.4	57.9	22.7	24.5	22.1	10.5	2.47	3.31	274
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	2000	1999
MIN	98.0	24.1	9.10	54.4	57.9	22.7	12.8	7.61	1.03	1.09	.11	46.4
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			10642.52			
ANNUAL MEAN			29.1		29.1	
HIGHEST ANNUAL MEAN					29.1	2000
LOWEST ANNUAL MEAN					29.1	2000
HIGHEST DAILY MEAN	1760	Sep 17	830	Oct 18	1760	Sep 17 1999
LOWEST DAILY MEAN	.03	Aug 28	.10	Jun 17	.03	Aug 28 1999
ANNUAL SEVEN-DAY MINIMUM	.05	Aug 23	.11	Jun 16	.05	Aug 23 1999
INSTANTANEOUS PEAK FLOW			2300	Oct 18	e3960	Sep 17 1999*
INSTANTANEOUS PEAK STAGE			11.93	Oct 18	16.32*	Sep 17 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		NOT DETERMINED	
ANNUAL RUNOFF (CFSM)			1.02		1.02	
ANNUAL RUNOFF (INCHES)			13.84		13.81	
10 PERCENT EXCEEDS	97		80		81	
50 PERCENT EXCEEDS	8.0		9.1		7.8	
90 PERCENT EXCEEDS	.10		.50		.20	

e Estimated.
* See REMARKS.

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued



0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to September 2000.

WATER TEMPERATURE: April 1999 to September 2000.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from April 1999 to September 2000.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). The water-quality monitor was inundated by floodwaters from Hurricane Floyd on September 16, 1999. The monitor was reinstalled on November 23, 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	180, August 6, 2000	29, September 15, 1999
WATER TEMPERATURE, °C	28.3, July 10, 11, 1999	0.1, January 28, 29, 2000

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	180, August 6	79, February 1, 2
WATER TEMPERATURE, °C	27.9, June 18, 19	0.1, January 28, 29

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, FOR PERIOD APRIL 1999 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (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)
APR											
20...	1200	E9.0	--	763	51	5.1	6.3	116	15.5	32	8.70
MAY											
17...	1120	--	92	770	73	7.1	6.2	98	17.3	25	6.70
JUN											
30...	1250	E3.0	--	763	14	1.1	6.2	128	26.1	39	11.0
JUL											
15...	1630	--	5.4	--	--	2.2	6.6	124	--	38	11.0
AUG											
10...	1345	E.08	--	760	--	--	6.3	139	24.4	45	13.0
SEP											
06...	1110	--	447	762	43	3.7	5.6	82	22.8	18	5.00
15...	1030	160	--	--	--	--	--	--	--	--	--
15...	1130	160	--	--	--	--	--	--	--	--	--

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)	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)
APR											
20...	2.40	5.1	.4	5.6	24	14.0	.2	3.0	3.6	E.94	1.2
MAY											
17...	1.90	4.6	.3	3.8	21	11.0	.1	4.3	7.0	E.71	1.1
JUN											
30...	2.70	3.9	.4	6.0	23	15.0	.2	2.5	4.8	.68	1.0
JUL											
15...	2.60	4.0	.4	6.2	24	12.0	.2	4.6	7.0	.84	1.1
AUG											
10...	3.00	2.9	.4	6.7	23	12.0	.2	.7	1.2	.73	1.0
SEP											
06...	1.40	6.1	.3	3.2	21	7.6	.1	3.6	7.8	.84	1.0
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
APR										
20...	.100	..350	--	1.6	--	.370	.020	1.1	E.220	.270
MAY										
17...	.100	.980	--	2.1	--	1.00	.020	1.0	E.140	.130
JUN										
30...	.040	--	.64	1.1	.77	.090	<.010	.96	E.200	.200
JUL										
15...	.100	.190	.74	1.3	1.0	.200	.010	1.0	.210	.220
AUG										
10...	.080	--	.65	--	--	<.020	<.010	.92	.170	.140
SEP										
06...	.040	.430	.80	1.4	1.3	.440	.010	.96	.230	.220
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, FOR PERIOD APRIL 1999 TO SEPTEMBER 1999

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
APR										
20...	.350	--	--	--	17	105	2200	53	--	--
MAY										
17...	.190	--	--	--	16	92	720	11	-31.30	-5.35
JUN										
30...	.310	--	--	--	14	108	940	54	-24.40	-4.17
JUL										
15...	.420	--	--	--	15	104	1600	42	-19.70	-3.69
AUG										
10...	.480	--	--	--	16	105	1000	190	-11.40	-2.36
SEP										
06...	.270	--	--	--	14	56	640	26	-44.20	-6.77
15...	--	<.2	3.6	3.6	--	--	--	--	--	--
15...	--	<.2	4.4	4.4	--	--	--	--	--	--

DATE	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)	BED MAT. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)
APR										
20...	33.0	2.6	--	--	--	--	--	--	--	--
MAY										
17...	23.0	1.9	--	--	--	--	--	--	--	--
JUN										
30...	27.5	1.9	--	--	--	--	--	--	--	--
JUL										
15...	28.8	1.9	--	--	--	--	--	--	--	--
AUG										
10...	27.8	1.9	--	--	--	--	--	--	--	--
SEP										
06...	13.4	1.3	--	--	--	--	--	--	--	--
15...	--	--	2	3	5	50	93	100	1.5	1.0
15...	--	--	2	4	6	69	98	100	3.5	3.0

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

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

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (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											
19...	0830	E580	--	771	--	5.3	5.5	--	17.7	11	3.00
NOV											
23...	1500	E4.0	--	771	46	4.6	6.5	123	16.3	33	8.90
FEB											
18...	1115	E60	--	772	82	9.9	5.8	98	7.8	25	6.60
MAR											
15...	1100	E8.0	--	771	55	6.0	6.1	117	11.7	--	--
30...	1130	E22	--	761	71	7.2	6.5	97	15.0	26	7.20
APR											
18...	1030	E53	--	760	69	6.5	6.5	96	18.4	25	6.90
MAY											
30...	1530	E2.7	--	768	32	3.0	6.4	132	18.8	42	12.0
JUN											
26...	1645	E.40	--	765	24	1.9	6.5	142	28.3	41	12.0
JUL											
25...	1245	E.18	--	767	3	.2	6.5	149	24.0	47	14.0
AUG											
24...	1040	E.80	--	769	54	4.7	6.2	131	22.6	44	13.0
SEP											
26...	1615	--	161	765	34	3.0	5.7	97	21.3	25	6.90

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)	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)
OCT										
19...	.90	5.5	.2	1.5	15	3.5	<.1	2.7	2.2	.79
NOV										
23...	2.60	8.8	.5	6.3	24	19.0	.2	1.9	3.6	.81
FEB										
18...	2.00	4.5	.5	5.2	27	13.0	.1	1.7	7.8	.77
MAR										
15...	--	--	--	--	--	--	--	--	--	--
30...	2.00	4.7	.5	5.5	27	14.0	.1	1.9	3.6	.82
APR										
18...	1.90	4.8	.5	5.5	28	12.0	.1	3.2	3.7	.82
MAY										
30...	2.80	5.2	.4	6.3	22	14.0	.2	2.7	3.2	.71
JUN										
26...	2.70	4.3	.4	6.2	22	11.0	.2	3.4	9.1	.57
JUL										
25...	2.90	3.8	.4	6.3	21	9.6	.2	2.3	1.8	.84
AUG										
24...	2.90	2.2	.5	6.9	24	10.0	.2	3.9	2.2	1.3
SEP										
26...	1.90	7.9	.4	4.1	20	10.0	.1	4.8	7.7	1.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT										
19...	.98	.140	.430	.65	1.4	1.2	.450	.020	.84	.300
NOV										
23...	1.1	.110	.360	.70	1.5	1.2	.370	.010	.99	.330
FEB										
18...	.68	.030	--	.74	1.7	1.8	1.00	<.010	.65	.060
MAR										
15...	--	--	--	--	--	--	--	--	--	--
30...	.99	.140	.310	.68	1.3	1.1	.330	.020	.85	.300
APR										
18...	1.0	.110	.370	.71	1.4	1.2	.390	.020	.89	.240
MAY										
30...	.95	.130	--	.58	.99	.75	.040	<.010	.82	.200
JUN										
26...	1.3	.030	--	.54	--	--	<.020	<.010	1.3	.120
JUL										
25...	1.3	.270	--	.57	--	--	<.020	<.010	1.0	.220
AUG										
24...	1.8	.020	--	1.3	1.8	1.3	.020	<.010	1.8	.230
SEP										
26...	1.1	.050	--	1.0	1.4	1.4	.260	<.010	1.0	.250

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

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

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
OCT										
19...	.290	.300	21	70	740	20	-58.70	-8.96	7.4	1.0
NOV										
23...	.330	.460	15	90	2100	83	-26.70	-4.57	19.5	1.6
FEB										
18...	.050	.110	11	78	460	20	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	15.0	1.3
30...	.260	.480	18	86	1900	39	--	--	--	--
APR										
18...	.210	.420	16	71	1300	22	--	--	17.6	1.3
MAY										
30...	.180	.410	14	86	1200	68	--	--	25.3	1.9
JUN										
26...	.090	.660	12	90	1200	130	--	--	34.6	2.6
JUL										
25...	.210	.670	12	90	1800	720	--	--	29.1	1.9
AUG										
24...	.200	.500	23	116	1800	160	--	--	28.8	1.9
SEP										
26...	.230	.230	21	97	750	15	--	--	--	--

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), FOR PERIOD APRIL 1999 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	114	111	113
2	---	---	---	---	---	---	---	---	---	112	110	111
3	---	---	---	---	---	---	---	---	---	113	111	112
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	119	115	118
6	---	---	---	---	---	---	---	---	---	125	105	120
7	---	---	---	---	---	---	---	---	---	130	124	127
8	---	---	---	---	---	---	98	95	97	132	126	130
9	---	---	---	---	---	---	102	98	100	134	128	130
10	---	---	---	---	---	---	104	101	103	130	125	128
11	---	---	---	---	---	---	104	94	100	131	120	128
12	---	---	---	---	---	---	97	91	95	131	126	129
13	---	---	---	---	---	---	93	88	89	133	128	130
14	---	---	---	---	---	---	91	89	90	137	94	113
15	---	---	---	---	---	---	93	90	91	94	83	85
16	---	---	---	---	---	---	95	93	94	92	86	89
17	---	---	---	---	---	---	---	---	---	96	92	93
18	---	---	---	---	---	---	---	---	---	97	93	95
19	---	---	---	---	---	---	---	---	---	98	94	97
20	---	---	---	---	---	---	---	---	---	102	96	99
21	---	---	---	---	---	---	---	---	---	104	99	101
22	---	---	---	---	---	---	107	103	105	110	104	106
23	---	---	---	---	---	---	108	106	107	114	106	109
24	---	---	---	---	---	---	111	108	109	117	108	110
25	---	---	---	---	---	---	113	110	112	118	110	112
26	---	---	---	---	---	---	115	112	113	120	111	114
27	---	---	---	---	---	---	115	113	114	118	112	114
28	---	---	---	---	---	---	117	113	115	118	113	115
29	---	---	---	---	---	---	114	112	113	117	115	116
30	---	---	---	---	---	---	114	95	112	121	117	119
31	---	---	---	---	---	---	---	---	---	124	117	120
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), FOR PERIOD APRIL 1999 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	128	118	122	125	124	125	145	144	144	134	127	131
2	125	119	122	126	124	125	146	144	145	136	128	134
3	127	122	124	126	125	126	145	130	139	137	132	134
4	128	123	125	127	126	126	143	135	140	137	103	129
5	129	123	125	128	126	128	143	137	141	103	68	78
6	130	125	126	132	128	130	144	141	142	---	---	---
7	131	127	129	136	132	134	144	142	143	87	74	80
8	132	129	131	140	133	137	145	143	144	96	87	92
9	133	131	132	140	133	137	144	132	139	---	---	---
10	135	131	133	141	134	137	---	---	---	103	98	100
11	144	131	134	141	133	136	135	129	133	109	103	107
12	134	130	131	136	132	134	136	133	135	109	107	108
13	136	131	132	137	132	135	138	136	137	109	107	108
14	136	128	133	136	124	127	139	138	138	112	109	110
15	138	131	135	126	124	125	138	126	131	113	29	96
16	139	99	117	126	124	124	137	135	136	---	---	---
17	101	97	99	125	114	120	138	135	137	---	---	---
18	108	100	105	119	115	116	138	136	137	---	---	---
19	---	---	---	119	116	118	138	137	138	---	---	---
20	---	---	---	122	119	120	139	124	135	---	---	---
21	115	112	114	129	122	126	139	124	133	---	---	---
22	118	114	116	134	129	132	139	128	134	---	---	---
23	122	118	120	138	134	136	138	129	134	---	---	---
24	127	121	123	139	137	138	139	130	135	---	---	---
25	129	124	125	141	138	139	141	138	139	---	---	---
26	133	125	127	142	139	140	140	139	139	---	---	---
27	135	125	128	143	141	142	140	139	140	---	---	---
28	133	126	129	143	142	143	140	138	139	---	---	---
29	131	127	129	145	143	144	140	139	139	---	---	---
30	133	123	127	145	143	144	140	122	129	---	---	---
31	---	---	---	145	142	144	133	126	129	---	---	---
MONTH	---	---	---	145	114	132	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), FOR PERIOD APRIL 1999 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	13.4	10.9	12.0
2	---	---	---	---	---	---	---	---	---	12.8	11.6	12.3
3	---	---	---	---	---	---	---	---	---	14.1	11.9	12.6
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	17.7	16.6	17.1
6	---	---	---	---	---	---	---	---	---	19.0	17.7	18.5
7	---	---	---	---	---	---	---	---	---	20.2	19.0	19.7
8	---	---	---	---	---	---	23.3	19.8	21.4	21.4	20.2	20.8
9	---	---	---	---	---	---	23.4	21.1	22.2	21.5	20.7	21.1
10	---	---	---	---	---	---	23.0	20.5	21.7	21.2	20.6	20.9
11	---	---	---	---	---	---	21.1	16.8	18.8	21.0	20.8	20.9
12	---	---	---	---	---	---	20.1	16.5	18.2	21.0	20.4	20.6
13	---	---	---	---	---	---	18.7	13.0	15.8	20.7	20.5	20.6
14	---	---	---	---	---	---	18.9	13.0	15.9	21.3	17.3	19.5
15	---	---	---	---	---	---	18.3	15.2	16.9	17.3	15.5	16.1
16	---	---	---	---	---	---	21.4	16.8	18.8	17.2	15.0	16.1
17	---	---	---	---	---	---	19.2	15.9	17.2	18.9	16.5	17.5
18	---	---	---	---	---	---	16.9	13.7	15.3	21.6	17.0	19.1
19	---	---	---	---	---	---	---	---	---	21.8	18.8	20.5
20	---	---	---	---	---	---	---	---	---	23.1	18.8	21.0
21	---	---	---	---	---	---	---	---	---	23.3	18.4	20.9
22	---	---	---	---	---	---	18.1	16.6	17.4	24.0	20.2	21.8
23	---	---	---	---	---	---	19.5	18.1	18.9	24.8	21.4	22.6
24	---	---	---	---	---	---	19.9	19.5	19.7	24.6	22.5	23.2
25	---	---	---	---	---	---	19.6	16.9	17.7	24.0	20.9	22.1
26	---	---	---	---	---	---	17.5	16.8	17.1	23.5	21.6	22.1
27	---	---	---	---	---	---	18.4	17.2	17.8	21.7	20.1	20.8
28	---	---	---	---	---	---	18.5	15.7	17.4	21.9	19.9	20.7
29	---	---	---	---	---	---	15.7	12.8	13.8	21.5	20.6	21.0
30	---	---	---	---	---	---	12.8	11.4	12.1	22.3	21.5	21.9
31	---	---	---	---	---	---	---	---	---	22.7	22.3	22.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

TEMPERATURE, WATER (DEG. C), FOR PERIOD APRIL 1999 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.8	22.3	22.5	25.9	25.0	25.3	27.2	26.8	27.0	21.8	21.3	21.5
2	23.0	22.6	22.8	25.5	25.0	25.3	27.3	27.2	27.2	21.5	21.2	21.3
3	23.4	23.0	23.3	26.0	25.4	25.6	27.3	26.3	26.6	21.7	21.5	21.5
4	23.9	23.4	23.6	26.6	26.0	26.3	26.5	25.9	26.1	22.1	21.7	21.9
5	23.9	23.0	23.3	27.2	26.6	26.9	25.9	24.9	25.2	23.5	22.1	22.7
6	23.5	22.9	23.2	27.9	27.2	27.6	25.4	25.1	25.2	---	---	---
7	23.6	23.1	23.4	28.1	27.8	27.9	25.6	25.4	25.5	24.7	23.4	24.0
8	24.2	23.6	23.9	28.1	27.6	27.8	26.0	25.6	25.8	25.6	24.1	24.8
9	25.0	24.2	24.6	27.9	27.4	27.7	26.1	25.5	25.9	---	---	---
10	25.5	25.0	25.2	28.3	27.8	28.0	---	---	---	24.9	24.0	24.5
11	25.6	24.7	25.1	28.3	26.3	27.6	24.6	24.3	24.4	24.3	22.3	23.3
12	25.1	23.4	23.8	26.3	24.0	25.0	24.9	24.5	24.7	22.8	21.0	22.0
13	23.6	23.1	23.3	24.0	22.0	23.0	25.4	24.9	25.1	22.5	20.5	21.7
14	24.0	23.3	23.6	22.0	21.2	21.5	25.8	25.4	25.6	23.1	22.3	22.6
15	24.3	24.0	24.2	22.5	21.9	22.1	25.7	25.1	25.2	22.9	21.6	22.6
16	24.1	21.3	22.4	24.4	22.5	22.9	25.2	25.1	25.1	---	---	---
17	21.3	20.4	20.6	26.1	24.2	24.9	25.3	25.2	25.2	---	---	---
18	22.1	19.6	20.7	26.1	24.9	25.3	25.5	25.3	25.4	---	---	---
19	---	---	---	25.9	25.4	25.6	25.8	25.5	25.7	---	---	---
20	---	---	---	26.2	25.7	26.0	25.8	25.4	25.6	---	---	---
21	21.1	19.8	20.5	26.6	26.2	26.4	25.4	24.9	25.0	---	---	---
22	21.6	20.1	20.8	26.7	26.6	26.6	25.0	24.6	24.7	---	---	---
23	22.8	19.6	21.1	27.0	26.7	26.9	24.7	24.2	24.4	---	---	---
24	24.4	20.7	22.3	27.2	27.0	27.1	24.3	23.8	23.9	---	---	---
25	25.1	22.7	23.7	27.2	26.6	26.8	24.1	23.9	24.0	---	---	---
26	25.5	23.7	24.3	26.7	26.7	26.7	24.2	24.1	24.1	---	---	---
27	26.0	24.6	25.1	26.8	26.5	26.6	24.3	24.2	24.2	---	---	---
28	26.3	25.4	25.8	26.6	26.4	26.5	24.4	24.3	24.3	---	---	---
29	26.5	25.8	26.1	26.6	26.5	26.6	24.6	24.4	24.5	---	---	---
30	26.4	25.8	26.0	26.7	26.5	26.6	24.7	22.7	23.9	---	---	---
31	---	---	---	26.8	26.6	26.7	22.7	21.8	22.1	---	---	---
MONTH	---	---	---	28.3	21.2	26.0	---	---	---	---	---	---

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	---	---	---	---	---	---	129	128	129	122	108	120
2	---	---	---	---	---	---	129	127	128	121	120	121
3	---	---	---	---	---	---	128	127	127	122	120	121
4	---	---	---	---	---	---	128	127	128	123	120	122
5	---	---	---	---	---	---	128	127	128	121	119	120
6	---	---	---	---	---	---	129	127	128	121	116	118
7	---	---	---	---	---	---	128	127	127	117	115	116
8	---	---	---	---	---	---	128	126	127	116	115	116
9	---	---	---	---	---	---	126	126	126	116	115	115
10	---	---	---	---	---	---	127	126	126	116	103	111
11	---	---	---	---	---	---	127	125	126	110	104	106
12	---	---	---	---	---	---	126	124	125	109	104	107
13	---	---	---	---	---	---	126	125	125	108	107	108
14	---	---	---	---	---	---	126	121	124	109	107	108
15	---	---	---	---	---	---	123	121	122	110	108	108
16	---	---	---	---	---	---	122	120	121	111	109	110
17	---	---	---	---	---	---	121	120	120	111	110	110
18	---	---	---	---	---	---	121	120	120	171	110	121
19	---	---	---	---	---	---	121	117	120	113	110	111
20	---	---	---	---	---	---	120	118	119	158	110	123
21	---	---	---	---	---	---	120	119	119	112	108	110
22	---	---	---	---	---	---	120	119	120	122	110	114
23	---	---	---	---	---	---	121	119	120	118	109	116
24	---	---	---	131	127	130	121	119	120	111	106	110
25	---	---	---	134	126	130	120	119	119	106	82	92
26	---	---	---	133	131	132	120	118	119	90	82	84
27	---	---	---	134	130	132	120	119	119	88	85	86
28	---	---	---	133	130	132	120	119	119	89	86	88
29	---	---	---	131	129	130	120	119	120	93	88	92
30	---	---	---	130	129	129	120	119	120	117	85	96
31	---	---	---	---	---	---	121	120	120	92	82	85
MONTH	---	---	---	---	---	---	129	117	123	171	82	109

0209173200 SANDY RUN NEAR LIZZIE, 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
		FEBRUARY			MARCH			APRIL			MAY	
1	82	79	80	112	111	112	101	99	100	93	91	92
2	81	79	80	115	112	114	103	98	101	94	92	93
3	84	80	82	116	114	115	106	103	105	97	94	96
4	87	84	85	116	114	115	109	106	108	100	96	99
5	88	86	87	117	115	116	111	104	110	103	100	102
6	90	87	88	118	116	117	112	110	111	107	103	105
7	93	88	91	120	118	119	113	111	112	111	106	108
8	95	92	94	123	120	122	114	112	113	114	110	112
9	97	94	95	125	123	124	113	112	112	115	113	113
10	98	96	97	128	125	126	112	110	111	116	113	115
11	100	98	99	132	126	129	111	105	111	117	115	116
12	117	96	102	134	124	127	112	111	111	118	115	117
13	104	96	98	127	121	123	113	112	112	119	116	118
14	97	92	95	121	119	120	115	112	114	122	118	121
15	96	93	94	120	118	119	---	---	---	122	120	122
16	94	92	93	123	117	119	---	---	---	125	121	123
17	94	93	94	117	114	116	---	---	---	---	---	---
18	96	94	95	114	105	108	---	---	---	---	---	---
19	97	96	96	106	101	103	---	---	---	---	---	---
20	99	96	97	102	99	101	95	93	94	---	---	---
21	99	97	98	100	95	98	95	94	95	---	---	---
22	99	98	98	95	92	93	97	95	96	---	---	---
23	101	99	100	92	91	92	99	96	98	---	---	---
24	102	100	101	93	91	92	101	98	100	---	---	---
25	103	101	103	95	93	94	103	81	96	---	---	---
26	106	103	105	97	94	96	90	82	88	---	---	---
27	108	105	107	100	97	99	91	88	89	---	---	---
28	110	108	109	102	99	101	91	87	89	---	---	---
29	111	110	110	101	98	100	89	88	88	---	---	---
30	---	---	---	99	98	98	92	88	91	---	---	---
31	---	---	---	100	98	99	---	---	---	---	---	---
MONTH	117	79	96	134	91	110	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	142	122	131	163	156	160	153	150	152
2	---	---	---	133	120	126	164	156	161	158	152	155
3	---	---	---	130	119	124	165	160	163	160	157	158
4	---	---	---	128	120	123	170	162	166	163	102	157
5	---	---	---	129	125	127	178	158	167	102	87	96
6	---	---	---	134	126	130	180	157	169	103	96	99
7	---	---	---	134	126	130	173	164	169	104	102	103
8	---	---	---	137	125	132	176	153	167	105	102	104
9	---	---	---	138	125	131	165	150	160	109	105	107
10	---	---	---	138	132	135	161	136	152	114	109	111
11	---	---	---	140	134	138	152	138	146	116	113	115
12	---	---	---	143	133	139	148	125	133	123	116	119
13	---	---	---	149	130	141	126	95	111	132	121	125
14	---	---	---	143	130	137	112	95	103	143	131	136
15	---	---	---	145	130	137	119	99	111	153	142	147
16	137	124	130	142	131	136	124	104	114	154	148	151
17	136	124	131	147	135	142	132	123	127	155	136	140
18	131	125	127	143	134	138	139	130	134	142	127	136
19	128	126	128	143	136	140	142	137	139	127	120	122
20	133	128	129	150	142	146	144	135	142	128	122	125
21	136	128	132	148	139	144	146	135	139	133	127	130
22	139	126	132	154	142	149	139	129	132	136	132	134
23	138	127	133	160	153	156	135	130	133	142	86	115
24	143	135	138	158	141	149	136	132	134	102	85	90
25	144	132	139	155	140	148	139	134	137	93	88	91
26	147	137	143	157	135	145	142	138	140	99	88	93
27	145	135	141	153	146	149	145	140	142	99	95	97
28	147	138	143	157	149	154	145	142	144	103	99	101
29	147	131	138	161	155	159	146	141	144	109	103	106
30	143	125	136	165	154	162	145	138	142	113	108	111
31	---	---	---	170	143	158	152	144	148	---	---	---
MONTH	---	---	---	170	119	141	180	95	143	163	85	121

0209173200 SANDY RUN NEAR LIZZIE, 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	---	---	---	---	---	---	7.4	4.7	5.7	8.7	5.9	7.2
2	---	---	---	---	---	---	5.7	3.2	4.4	10.7	7.5	8.7
3	---	---	---	---	---	---	6.9	4.0	5.3	13.0	10.2	11.2
4	---	---	---	---	---	---	9.5	5.9	7.4	16.2	13.0	14.3
5	---	---	---	---	---	---	11.2	8.1	9.4	15.7	9.9	12.8
6	---	---	---	---	---	---	13.4	11.2	12.2	9.9	7.0	8.3
7	---	---	---	---	---	---	13.0	9.8	11.0	10.1	8.4	8.9
8	---	---	---	---	---	---	9.8	7.2	8.5	8.7	6.1	7.5
9	---	---	---	---	---	---	8.9	6.4	7.7	9.8	7.9	8.6
10	---	---	---	---	---	---	11.1	8.0	9.2	13.1	9.8	11.4
11	---	---	---	---	---	---	11.0	9.5	10.3	12.5	10.1	11.3
12	---	---	---	---	---	---	9.5	6.9	8.0	11.0	8.6	9.9
13	---	---	---	---	---	---	12.2	8.5	9.7	11.8	8.5	9.9
14	---	---	---	---	---	---	15.7	12.2	13.9	9.5	5.1	6.8
15	---	---	---	---	---	---	14.2	11.2	12.4	5.4	2.7	4.1
16	---	---	---	---	---	---	11.8	9.4	10.6	7.1	3.5	5.1
17	---	---	---	---	---	---	9.4	6.8	8.1	7.0	4.8	5.9
18	---	---	---	---	---	---	8.5	7.2	7.9	4.8	2.1	2.9
19	---	---	---	---	---	---	9.8	8.3	8.8	4.3	1.7	2.8
20	---	---	---	---	---	---	11.5	9.8	10.7	5.3	2.2	3.6
21	---	---	---	---	---	---	11.5	11.0	11.2	3.5	.9	2.3
22	---	---	---	---	---	---	11.2	9.0	10.6	2.1	.4	1.3
23	---	---	---	---	---	---	9.0	6.8	7.9	2.1	1.2	1.6
24	---	---	---	17.8	16.2	16.8	7.5	5.4	6.3	2.6	2.1	2.4
25	---	---	---	18.4	16.1	17.3	6.1	3.0	4.1	2.6	.6	1.4
26	---	---	---	18.7	16.3	17.6	4.0	1.5	2.7	2.3	.2	1.2
27	---	---	---	18.2	15.1	17.0	4.9	2.4	3.5	2.6	.2	1.4
28	---	---	---	15.1	12.5	13.8	5.0	2.9	4.0	1.7	.1	.7
29	---	---	---	13.4	11.3	12.1	5.7	3.5	4.6	1.8	.1	.8
30	---	---	---	11.3	7.4	9.2	6.5	3.6	4.9	2.9	1.3	2.0
31	---	---	---	---	---	---	7.8	5.3	6.4	4.4	2.3	3.3
MONTH	---	---	---	---	---	---	15.7	1.5	8.0	16.2	.1	5.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.8	2.4	3.6	15.4	10.4	13.1	19.0	12.7	15.9	21.8	15.8	18.7
2	5.1	2.2	3.6	16.7	12.9	14.8	17.1	14.1	15.7	21.4	17.7	19.6
3	6.0	2.1	4.0	14.6	11.0	12.9	21.5	16.2	18.3	23.4	18.1	20.7
4	7.4	3.7	5.5	13.3	10.7	11.6	20.7	17.5	19.1	23.5	17.5	20.7
5	7.8	4.2	5.9	13.5	8.5	10.9	17.5	13.1	15.4	24.1	18.4	21.4
6	8.0	4.1	5.9	14.8	10.4	12.6	18.0	12.9	15.1	25.0	20.0	22.5
7	8.9	4.9	6.7	15.6	11.3	13.4	20.3	15.8	17.7	25.3	21.7	23.4
8	8.5	5.3	7.0	18.1	13.4	15.5	20.4	17.1	18.7	25.3	22.3	23.8
9	8.1	5.7	6.9	18.5	15.5	17.0	18.7	13.1	15.5	25.0	22.4	23.7
10	11.0	6.7	8.8	19.9	16.3	18.1	17.7	12.8	14.9	24.9	22.9	24.0
11	12.4	8.5	10.3	20.3	17.8	19.0	19.1	15.5	16.9	24.9	22.0	23.3
12	11.6	6.3	9.1	19.5	14.3	17.6	20.0	17.5	18.5	24.1	21.8	22.8
13	6.8	5.3	6.1	15.1	10.2	12.8	19.5	13.4	16.1	25.7	23.6	24.4
14	11.0	6.8	9.0	15.4	9.6	12.6	14.2	12.0	12.9	25.8	24.7	25.3
15	12.2	9.1	10.6	16.2	11.1	13.6	---	---	---	25.5	22.7	23.6
16	12.3	8.4	10.4	17.4	13.2	15.3	---	---	---	23.0	20.5	21.3
17	11.6	9.0	10.2	19.5	14.8	17.4	---	---	---	---	---	---
18	9.0	7.5	8.1	14.8	10.7	12.7	---	---	---	---	---	---
19	14.3	8.0	11.1	14.4	9.5	11.9	---	---	---	---	---	---
20	12.9	9.4	11.2	13.0	11.9	12.5	20.5	13.8	16.9	---	---	---
21	11.5	7.5	9.5	14.3	12.0	12.9	21.4	16.9	19.0	---	---	---
22	11.1	6.7	8.9	12.3	10.1	10.8	20.4	16.7	18.0	---	---	---
23	12.8	7.3	10.0	15.6	9.6	12.1	20.2	14.9	17.5	---	---	---
24	13.9	9.8	11.9	17.9	10.5	14.0	19.5	16.0	17.9	---	---	---
25	16.5	10.9	13.6	19.8	13.1	16.3	18.7	13.6	16.3	---	---	---
26	17.9	12.8	15.4	21.0	16.0	18.2	16.3	12.5	14.2	---	---	---
27	17.1	14.0	15.8	18.1	14.8	16.7	15.6	12.9	14.1	---	---	---
28	17.6	14.7	16.1	18.9	14.9	17.0	14.6	13.3	13.6	---	---	---
29	15.4	11.3	13.6	18.1	12.9	15.7	17.5	12.6	14.9	---	---	---
30	---	---	---	15.9	14.3	14.9	20.4	14.0	17.0	---	---	---
31	---	---	---	18.6	12.4	15.3	---	---	---	---	---	---
MONTH	17.9	2.1	9.3	21.0	8.5	14.5	---	---	---	---	---	---

0209173200 SANDY RUN NEAR LIZZIE, 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	---	---	---	25.3	24.7	24.9	24.6	24.3	24.5	23.1	23.0	23.0
2	---	---	---	25.1	24.4	24.7	25.0	24.6	24.8	23.4	23.1	23.2
3	---	---	---	24.9	24.3	24.6	25.1	24.9	25.0	23.6	23.3	23.5
4	---	---	---	24.9	24.5	24.7	25.2	25.0	25.1	24.9	23.6	23.8
5	---	---	---	25.7	24.9	25.3	25.2	24.7	24.9	24.7	22.0	23.2
6	---	---	---	25.9	25.7	25.8	24.9	24.4	24.6	22.0	20.7	21.2
7	---	---	---	26.0	25.3	25.6	25.0	24.5	24.7	21.8	19.9	20.8
8	---	---	---	25.6	24.7	25.0	26.0	25.0	25.5	22.5	19.9	21.2
9	---	---	---	25.2	24.8	24.9	26.5	25.8	26.2	22.8	20.8	21.8
10	---	---	---	25.4	24.8	25.0	26.6	26.3	26.5	23.2	20.8	21.8
11	---	---	---	26.4	25.4	25.9	26.5	26.1	26.3	22.9	21.6	22.0
12	---	---	---	26.6	26.1	26.3	26.2	25.2	25.5	23.0	22.3	22.5
13	---	---	---	26.2	25.2	25.5	25.8	23.3	24.4	23.1	22.5	22.8
14	---	---	---	25.4	24.9	25.1	24.8	22.0	23.2	23.3	22.9	23.2
15	---	---	---	25.4	24.9	25.2	24.3	22.8	23.4	23.6	23.3	23.5
16	27.2	26.3	26.6	25.4	24.8	25.1	24.5	23.6	23.9	23.6	21.6	22.2
17	27.5	26.4	26.9	25.7	25.0	25.3	24.5	24.0	24.3	21.6	19.5	20.1
18	27.9	26.8	27.3	26.1	25.4	25.7	24.7	24.5	24.5	19.6	19.1	19.4
19	27.9	27.0	27.5	26.7	25.9	26.2	24.6	24.4	24.4	19.3	19.0	19.1
20	27.7	26.6	26.9	26.9	26.3	26.6	24.7	23.8	24.1	19.7	19.3	19.5
21	27.2	25.6	26.2	26.6	25.6	25.8	23.8	22.7	23.1	20.2	19.7	19.9
22	27.4	26.4	26.8	25.7	24.7	25.0	22.8	21.7	22.1	20.5	20.1	20.3
23	26.8	25.3	25.8	25.5	25.1	25.3	22.1	21.8	22.0	22.3	20.5	21.5
24	26.4	25.9	26.1	25.6	25.0	25.4	22.4	22.1	22.2	23.6	22.0	22.7
25	26.5	26.0	26.2	25.0	24.0	24.2	22.8	22.4	22.6	24.1	23.1	23.5
26	26.9	26.3	26.5	24.0	23.3	23.6	23.0	22.7	22.9	23.5	20.1	21.8
27	27.0	26.3	26.7	23.8	23.5	23.6	23.0	23.0	23.0	20.1	18.7	19.3
28	27.1	26.5	26.8	24.1	23.8	23.9	23.1	23.0	23.0	19.0	17.3	18.2
29	27.2	26.4	26.7	24.4	24.1	24.2	23.0	23.0	23.0	19.1	17.3	18.2
30	26.5	24.7	25.2	24.5	24.4	24.4	23.1	23.0	23.0	19.4	17.5	18.5
31	---	---	---	24.5	24.2	24.3	23.1	23.0	23.0	---	---	---
MONTH	---	---	---	26.9	23.3	25.1	26.6	21.7	24.1	24.9	17.3	21.4

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC

LOCATION.--Lat 35°32'00", long 77°32'40", Pitt County, Hydrologic Unit 03020203, at bridge on Secondary Road 1139, 1.2 mi above mouth and 5 mi southeast of Farmville.

DRAINAGE AREA.-- 51.0 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period probably occurred on Sept. 17, 1999, discharge not determined. Maximum gage height from floodmarks. Minimum instantaneous discharge for current water year also occurred on July 21. Minimum instantaneous discharge for period of record also occurred on June 10.

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	328	16	19	7.3	266	19	20	90	4.4	1.0	15	2.9
2	145	43	15	6.7	204	17	15	63	3.0	.56	6.5	5.0
3	88	160	13	6.3	174	15	10	49	2.0	.39	3.5	8.2
4	64	168	11	6.6	149	10	9.1	38	1.7	.30	4.4	14
5	51	119	10	21	121	8.9	8.1	31	3.6	.30	4.6	58
6	43	79	11	28	96	7.8	6.8	25	6.0	2.4	4.1	91
7	35	58	12	25	77	6.8	6.1	19	4.6	5.2	5.4	60
8	29	45	12	20	65	6.3	5.1	15	3.7	2.0	7.6	44
9	24	38	12	21	55	5.8	6.8	12	2.7	1.1	6.5	32
10	21	34	14	83	49	5.4	7.6	10	1.9	.83	6.5	24
11	19	28	14	178	45	5.0	6.7	8.3	1.2	.54	4.9	20
12	19	24	9.6	155	58	17	5.1	6.8	.90	1.1	5.4	18
13	18	22	8.7	106	170	27	4.1	5.3	.68	.88	19	17
14	19	20	18	70	192	18	4.1	3.8	.58	.88	19	15
15	17	17	28	47	195	13	17	2.7	.44	.56	13	14
16	16	14	21	37	e179	11	75	2.0	.27	.45	9.0	10
17	200	11	15	30	135	64	111	1.7	.23	.35	7.4	7.0
18	1410	10	10	25	103	115	90	1.4	.20	.25	6.5	7.5
19	978	9.3	13	26	95	78	86	1.1	.21	.18	5.6	12
20	555	8.6	23	40	81	49	77	1.0	.19	.17	4.0	11
21	280	8.3	26	54	68	104	54	1.0	.17	.18	3.2	12
22	198	7.4	28	50	55	159	35	1.2	.21	.22	2.4	14
23	171	7.5	36	65	45	118	24	1.1	1.9	.23	1.9	51
24	128	12	29	144	38	81	17	1.0	2.9	.24	1.4	265
25	87	46	20	266	33	57	29	.90	1.5	.30	1.1	271
26	63	54	15	290	30	40	101	.77	.73	1.8	.89	241
27	48	55	13	217	26	30	84	.66	.49	1.0	.86	215
28	36	43	11	182	25	33	73	.83	.37	1.0	1.0	160
29	27	34	9.5	160	22	42	125	2.7	3.8	1.5	1.0	102
30	22	25	8.5	154	---	37	131	4.6	2.7	6.1	1.4	67
31	19	---	8.2	303	---	29	---	5.2	---	23	2.6	---
TOTAL	5158	1216.1	493.5	2823.9	2851	1229.0	1243.6	406.06	53.27	55.01	175.65	1868.6
MEAN	166	40.5	15.9	91.1	98.3	39.6	41.5	13.1	1.78	1.77	5.67	62.3
MAX	1410	168	36	303	266	159	131	90	6.0	23	19	271
MIN	16	7.4	8.2	6.3	22	5.0	4.1	.66	.17	.17	.86	2.9
CFSM	3.26	.79	.31	1.79	1.93	.78	.81	.26	.03	.03	.11	1.22
IN.	3.76	.89	.36	2.06	2.08	.90	.91	.30	.04	.04	.13	1.36

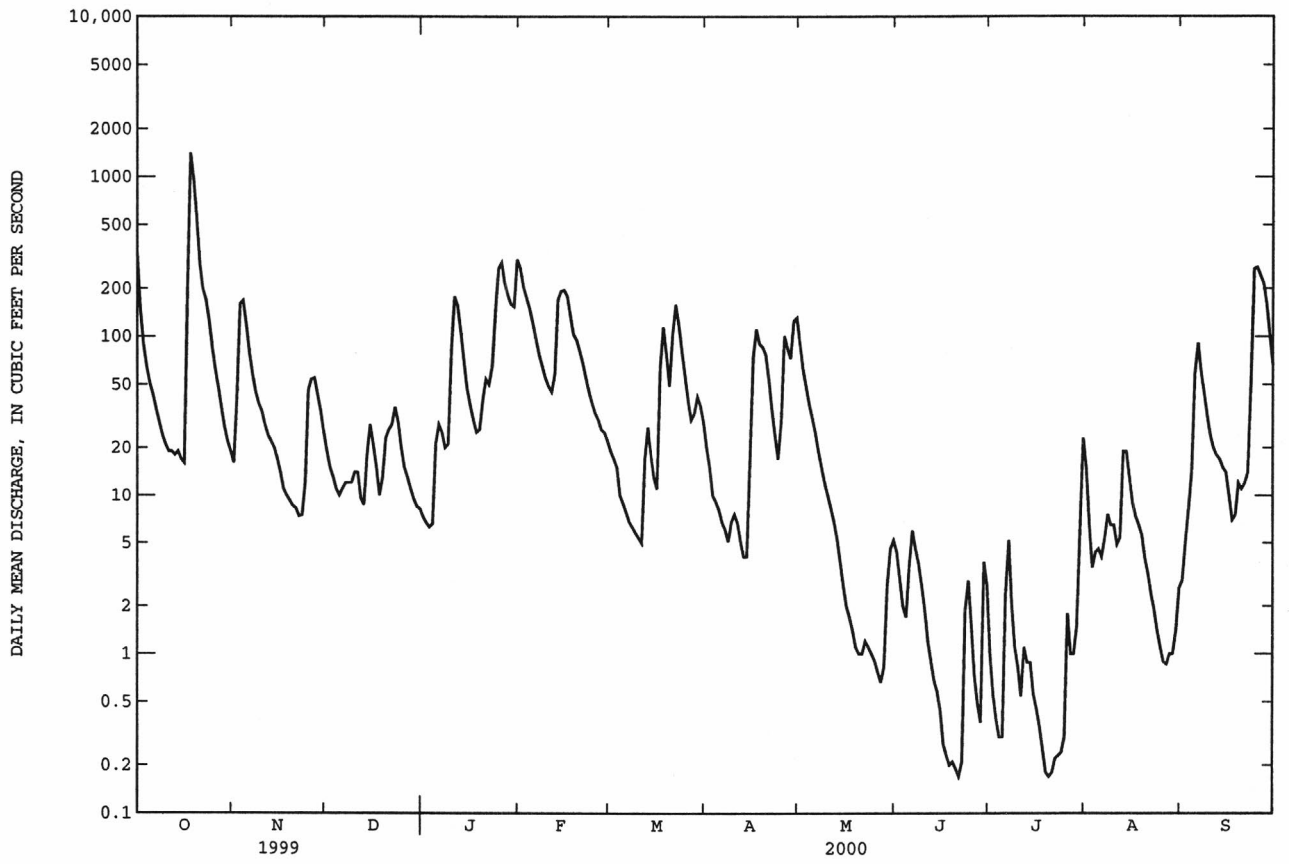
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	166	40.5	15.9	91.1	98.3	40.1	30.8	20.0	7.95	2.47	2.91	262
MAX	166	40.5	15.9	91.1	98.3	40.7	41.5	26.8	14.1	3.16	5.67	462
(WY)	2000	2000	2000	2000	2000	1999	2000	1999	1999	1999	2000	1999
MIN	166	40.5	15.9	91.1	98.3	39.6	20.1	13.1	1.78	1.77	.16	62.3
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	23542.89		17573.69			
ANNUAL MEAN	79.5		48.0		60.1	
HIGHEST ANNUAL MEAN					81.7	1999
LOWEST ANNUAL MEAN					48.0	2000
HIGHEST DAILY MEAN	3000	Sep 17	1410	Oct 18	3000	Sep 17 1999
LOWEST DAILY MEAN	.08	Aug 25	.17	Jun 21	.08	Aug 25 1999
ANNUAL SEVEN-DAY MINIMUM	.09	Aug 23	.21	Jul 18	.09	Aug 23 1999
INSTANTANEOUS PEAK FLOW			1730	Oct 18	NOT DETERMINED*	
INSTANTANEOUS PEAK STAGE			13.59	Oct 18	19.03	Sep 17 1999
INSTANTANEOUS LOW FLOW			.15*	Jul 20	0.0*	Jun 9 1999
ANNUAL RUNOFF (CFSM)	1.56		.94		1.18	
ANNUAL RUNOFF (INCHES)	17.17		12.82		16.01	
10 PERCENT EXCEEDS	146		132		128	
50 PERCENT EXCEEDS	15		15		14	
90 PERCENT EXCEEDS	.19		.89		.34	

e Estimated.
* See REMARKS.

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC--Continued



02091736 MIDDLE SWAMP NEAR FARMVILLE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 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										
19...	1200	956	771	--	4.3	5.6	--	18.2	11	3.00
NOV										
23...	1145	7.2	771	42	4.2	6.8	115	16.2	30	8.20
FEB										
24...	1220	38	774	99	10.7	5.9	96	12.8	26	7.00
MAR										
15...	1430	12	771	92	9.4	6.4	111	14.8	--	--
29...	1445	44	761	98	9.4	6.8	94	17.6	25	7.00
APR										
19...	1615	83	765	102	10.0	6.3	89	16.3	24	6.70
MAY										
31...	1200	5.2	770	70	6.7	6.7	120	18.4	38	11.0
JUN										
27...	0930	.47	767	16	1.3	6.4	125	26.8	42	12.0
JUL										
25...	1345	.29	767	13	1.1	6.5	103	23.6	37	11.0
AUG										
24...	1230	1.4	768	8	.7	6.2	102	23.9	40	12.0
SEP										
27...	1015	220	773	36	3.4	5.8	92	19.0	25	6.90

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)	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)
OCT										
19...	.90	4.7	.2	1.4	15	3.2	<.1	2.8	2.2	.76
NOV										
23...	2.40	7.8	.5	5.9	24	17.0	.1	1.5	3.6	.72
FEB										
24...	2.00	3.9	.5	5.3	27	13.0	.1	.8	6.8	.54
MAR										
15...	--	--	--	--	--	--	--	--	--	--
29...	1.90	4.1	.5	5.5	28	13.0	.2	2.1	4.2	.53
APR										
19...	1.80	4.1	.5	5.1	27	11.0	.1	3.6	4.3	.84
MAY										
31...	2.60	4.2	.5	6.4	24	13.0	.2	2.3	4.7	.64
JUN										
27...	2.80	3.4	.4	6.2	23	9.1	.2	2.5	3.5	1.1
JUL										
25...	2.40	2.3	.4	5.0	21	5.7	.2	3.5	1.6	.96
AUG										
24...	2.50	1.3	.4	5.9	23	6.9	.2	4.2	2.0	1.1
SEP										
27...	1.80	6.8	.4	4.0	21	9.8	.1	5.1	7.8	.91

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC--Continued

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

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT										
19...	.83	.080	--	.68	1.1	1.0	.240	<.010	.75	.230
NOV										
23...	.88	.090	.220	.63	1.1	.95	.230	.010	.79	.280
FEB										
24...	.62	.020	--	.52	1.2	1.1	.610	<.010	.60	.070
MAR										
15...	--	--	--	--	--	--	--	--	--	--
29...	.84	.110	.330	.42	1.2	.88	.350	.020	.73	.260
APR										
19...	.96	.140	.360	.70	1.3	1.2	.380	.020	.82	.220
MAY										
31...	.78	.050	--	.59	.82	.68	.040	<.010	.73	.150
JUN										
27...	1.3	.320	--	.78	--	--	<.020	<.010	.98	.290
JUL										
25...	1.2	.300	--	.66	1.2	.99	.030	<.010	.90	.240
AUG										
24...	1.5	.070	--	1.0	--	--	<.020	<.010	1.4	.210
SEP										
27...	1.0	.040	--	.87	1.2	1.1	.180	<.010	.96	.200

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
OCT										
19...	.220	.240	20	69	760	22	-59.50	-8.95	6.7	1.0
NOV										
23...	.280	.370	15	84	2100	65	-26.00	-4.59	20.2	1.6
FEB										
24...	.080	.110	9.3	67	650	18	--	--	21.1	1.6
MAR										
15...	--	--	--	--	--	--	--	--	20.8	1.6
29...	.220	.420	16	84	1700	27	--	--	21.1	1.6
APR										
19...	.190	.350	16	70	1300	11	--	--	18.6	1.6
MAY										
31...	.140	.330	13	79	1100	45	--	--	26.6	1.9
JUN										
27...	.270	.600	15	97	2100	550	--	--	33.9	2.6
JUL										
25...	.220	.410	14	112	1700	330	--	--	33.6	2.6
AUG										
24...	.210	.440	20	100	2000	560	--	--	29.4	1.9
SEP										
27...	.180	.170	19	87	610	<1	--	--	--	--

02091737 LITTLE CONTENTNEA CREEK NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'30", long 77°31'15", Greene County, Hydrologic Unit 03020203, at bridge on Secondary Road 1343, 0.3 mi downstream from Middle Swamp, and 0.7 mi northeast of Willow Green.

DRAINAGE AREA.--145 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and period June 1 to Aug. 29, 2000, which are poor. Maximum gage height for period probably occurred on Sept. 17, 1999. Maximum gage height from floodmarks. Minimum instantaneous discharge for the current year was not determined.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2290	73	73	38	1010	67	81	252	20	16	56	64
2	1640	85	60	36	799	62	65	178	17	15	44	76
3	1210	203	53	35	689	56	53	117	15	15	36	72
4	884	325	49	34	570	51	46	79	19	14	35	67
5	607	324	47	47	421	47	42	58	21	15	40	136
6	404	272	46	63	300	43	39	44	25	39	41	257
7	288	201	47	66	228	39	35	34	22	36	44	239
8	215	145	47	62	186	37	31	27	19	26	41	174
9	164	113	47	61	157	36	35	23	17	20	36	118
10	128	97	46	107	138	35	35	20	15	17	34	80
11	105	85	47	303	125	33	35	18	14	16	30	61
12	93	75	43	363	127	48	31	16	13	18	32	52
13	84	69	41	294	279	73	28	14	12	19	55	46
14	82	65	47	209	468	84	27	13	10	18	51	43
15	74	61	60	141	563	86	48	12	e5.0	18	40	42
16	69	56	59	105	529	75	135	11	e5.0	e9.0	34	40
17	361	53	52	86	434	148	255	11	e4.5	e9.0	31	37
18	2950	50	47	73	330	266	282	12	e4.0	e8.0	31	37
19	3160	48	46	70	256	253	276	12	e4.0	e8.0	e18	43
20	2490	46	55	80	224	186	234	11	e5.0	e8.0	e18	42
21	1610	45	63	104	205	195	188	11	e6.0	e8.0	e18	43
22	1000	44	66	119	176	308	133	13	e6.0	e8.0	e17	45
23	685	43	70	131	146	297	92	14	42	e9.0	e16	70
24	515	48	71	214	122	232	66	14	68	e10	e14	345
25	377	60	61	587	105	171	65	14	35	e11	e14	596
26	259	85	54	1050	94	127	190	14	21	28	e14	507
27	188	96	50	838	85	103	229	13	16	31	e16	574
28	143	105	47	691	78	97	173	14	14	31	e16	499
29	112	107	44	575	72	102	203	18	16	28	e17	351
30	94	91	42	464	---	113	286	20	20	26	33	221
31	81	---	40	834	---	103	---	22	---	51	44	---
TOTAL	22362	3170	1620	7880	8916	3573	3438	1129	510.5	585.0	966	4977
MEAN	721	106	52.3	254	307	115	115	36.4	17.0	18.9	31.2	166
MAX	3160	325	73	1050	1010	308	286	252	68	51	56	596
MIN	69	43	40	34	72	33	27	11	4.0	8.0	14	37
CFSM	4.97	.73	.36	1.75	2.12	.79	.79	.25	.12	.13	.21	1.14
IN.	5.74	.81	.42	2.02	2.29	.92	.88	.29	.13	.15	.25	1.28

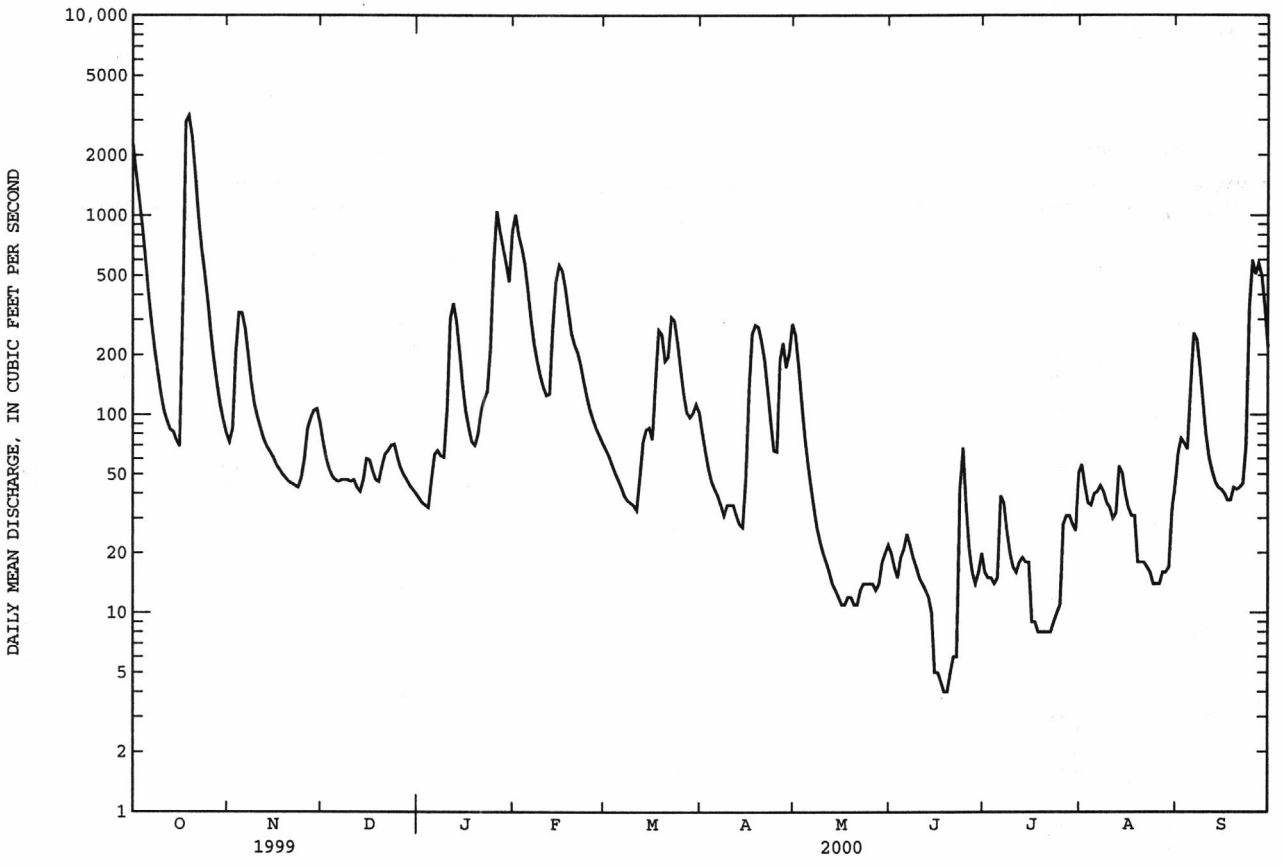
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	721	106	52.3	254	307	115	101	51.7	35.7	19.6	30.7	830
MAX	721	106	52.3	254	307	115	115	67.0	54.5	20.3	31.2	1493
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999	2000	1999
MIN	721	106	52.3	254	307	115	88.4	36.4	17.0	18.9	30.3	166
(WY)	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL			59126.5			
ANNUAL MEAN			162		162	
HIGHEST ANNUAL MEAN					162	2000
LOWEST ANNUAL MEAN					162	2000
HIGHEST DAILY MEAN	6300	Sep 17	3160	Oct 19	6300	Sep 17 1999
LOWEST DAILY MEAN	9.2	Jul 11	e4.0	Jun 18	4.0	Jun 18 2000
ANNUAL SEVEN-DAY MINIMUM	11	Jul 6	4.8	Jun 15	4.8	Jun 15 2000
INSTANTANEOUS PEAK FLOW			3400	Oct 18	6650*	Sep 17 1999
INSTANTANEOUS PEAK STAGE			16.91	Oct 18	22.78*	Sep 17 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		9.0*	Jul 11 1999
ANNUAL RUNOFF (CFSM)			1.11		1.11	
ANNUAL RUNOFF (INCHES)			15.17		15.14	
10 PERCENT EXCEEDS	654		354		380	
50 PERCENT EXCEEDS	50		55		48	
90 PERCENT EXCEEDS	15		14		14	

e Estimated.
* See REMARKS.

02091737 LITTLE CONTENTNEA CREEK NEAR WILLOW GREEN, NC--Continued



02091737 LITTLE CONTENTNEA CREEK NEAR WILLOW GREEN, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

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

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (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											
19...	1235	--	3170	770	--	3.4	5.6	--	19.4	10	2.80
DEC											
02...	1030	--	60	776	77	10.2	5.5	99	4.1	26	7.10
FEB											
24...	1445	--	119	774	90	9.8	6.3	92	12.3	23	6.20
MAR											
15...	1300	--	88	771	80	8.6	6.0	102	12.7	--	--
29...	1045	--	101	761	71	7.2	6.4	92	14.6	24	6.50
APR											
19...	1445	--	282	765	72	7.3	6.0	84	15.0	22	6.10
MAY											
31...	1315	--	22	770	69	6.7	6.6	140	17.8	32	9.00
JUN											
27...	1145	--	15	767	52	4.2	6.6	140	26.9	27	7.60
JUL											
25...	1430	E11	--	767	28	2.3	6.6	142	24.4	47	15.0
AUG											
24...	1130	E14	--	769	49	4.2	6.5	129	23.2	28	8.10
SEP											
27...	0930	--	584	772	46	4.2	5.9	85	19.6	23	6.40

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)	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)
OCT										
19...	.80	4.8	.2	1.7	18	3.8	<.1	2.8	2.8	.68
DEC										
02...	2.00	5.6	.6	7.3	32	16.0	.1	4.7	4.7	.84
FEB										
24...	1.80	3.2	.5	6.0	33	12.0	.1	.6	7.7	.51
MAR										
15...	--	--	--	--	--	--	--	--	--	--
29...	1.80	3.3	.6	6.5	34	12.0	.1	2.3	5.0	.61
APR										
19...	1.70	3.2	.5	5.5	31	10.0	.1	4.3	4.7	.80
MAY										
31...	2.20	3.6	1	14.0	46	14.0	.2	2.9	4.4	.59
JUN										
27...	1.90	3.6	1	16.0	53	12.0	.2	4.3	10.0	.62
JUL										
25...	2.30	3.0	.9	14.0	38	11.0	.2	4.0	6.0	.62
AUG										
24...	2.00	2.1	1	16.0	53	14.0	.1	5.7	5.4	.78
SEP										
27...	1.70	5.4	.4	4.4	24	8.8	.1	5.2	7.3	.76

02091737 LITTLE CONTENTNEA CREEK NEAR WILLOW GREEN, NC--Continued

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

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	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 DISSOLVED (MG/L AS P) (00666)
OCT										
19...	1.2	.070	--	.61	1.4	.87	.190	<.010	1.1	.150
DEC										
02...	.83	.080	.320	.76	1.2	1.2	.330	.010	.75	.270
FEB										
24...	.58	.020	--	.49	.93	.86	.350	<.010	.56	.050
MAR										
15...	--	--	--	--	--	--	--	--	--	--
29...	.69	.070	.320	.54	1.0	.94	.330	.010	.62	.160
APR										
19...	.96	.140	.280	.66	1.3	1.1	.300	.020	.82	.170
MAY										
31...	.68	.050	--	.54	.90	.81	.220	<.010	.63	.180
JUN										
27...	.84	.090	--	.53	.98	.76	.140	<.010	.75	.230
JUL										
25...	.88	.060	--	.56	--	--	<.020	<.010	.82	.200
AUG										
24...	.85	.050	--	.73	.91	.84	.060	<.010	.80	.240
SEP										
27...	.88	.030	--	.73	1.0	.91	.150	<.010	.85	.140

DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)
OCT										
19...	.150	.180	14	55	590	22	-53.60	-8.29	7.4	1.0
DEC										
02...	.260	.330	14	84	2500	26	--	--	19.2	1.5
FEB										
24...	.060	.090	9.1	68	600	19	--	--	18.9	1.6
MAR										
15...	--	--	--	--	--	--	--	--	21.8	1.6
29...	.150	.290	14	76	1400	33	--	--	18.6	1.6
APR										
19...	.140	.270	15	63	1300	19	--	--	20.2	1.6
MAY										
31...	.160	.270	13	88	1300	28	--	--	23.4	1.9
JUN										
27...	.210	.340	12	101	1300	61	--	--	42.9	2.6
JUL										
25...	.180	.350	11	130	1000	300	--	--	31.0	1.9
AUG										
24...	.210	.240	14	100	1200	56	--	--	30.1	1.9
SEP										
27...	.130	.150	16	79	720	21	--	--	--	--

02091740 LITTLE CONTENTNEA CREEK AT SCUFFLETON, NC

LOCATION.--Lat 35°27'20", long 77°29'10", Greene County, Hydrologic Unit 03020203, at bridge on State Highway 102, at Scuffleton.

DRAINAGE AREA.--172 mi^2

PERIOD OF RECORD.--June to September 2000.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, FOR PERIOD JUNE 2000 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN												
01...	1130	25	769	67	6.1	6.6	148	20.7	44	14.0	2.20	3.5
JUL												
26...	1700	58	766	60	5.1	6.5	137	23.7	41	13.0	2.00	3.7
SEP												
27...	1215	746	773	47	4.3	5.9	87	20.4	23	6.60	1.70	5.6

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 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, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
JUN												
01...	.6	9.6	30	12.0	.2	4.5	5.4	.54	.53	.040	.330	.50
JUL												
26...	.6	8.7	29	9.3	.2	5.9	9.5	.54	.82	.090	--	.45
SEP												
27...	.4	4.7	25	8.8	.1	5.3	7.8	.90	.88	.040	--	.86

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)
JUN												
01...	.87	.88	.340	.010	.49	.160	.150	.240	10	87	730	26
JUL												
26...	1.1	.82	.280	<.010	.73	.180	.180	.390	7.3	88	750	97
SEP												
27...	1.1	1.1	.220	<.010	.84	.200	.190	.180	16	84	780	19



USGS gaging station at Broadneck Transect (site #1).

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC

LOCATION.--Lat 35°18'40", long 77°18'20", Craven County, Hydrologic Unit 03020202, on left bank 0.2 mi upstream from bridge on Secondary Road 1470, 1.5 mi upstream from Core Creek and 2.0 mi east of Fort Barnwell.

DRAINAGE AREA.--3,900 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional measurements water years 1955-1995, October 1996 to current year.

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

REMARKS.--Records good, except those for period May 12 to June 20, which are fair. Maximum gage height for period of record, from floodmarks. Maximum discharge, 40,700 ft^3/s, Oct. 1, stage falling, peak occurred Sept. 20, 1999; maximum peak discharge, 24,300 ft^3/s, Oct. 23, gage height, 14.34 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	40300	13600	2810	2250	10600	7950	5960	5970	1150	1290	4200	3090
2	39800	12100	2750	2150	11000	7300	5970	5770	1100	1610	4360	3430
3	38000	11100	2660	2070	11200	6640	5920	5420	1100	1930	4710	3410
4	35300	10300	2550	2010	11100	6170	5710	4610	1140	1960	5030	3590
5	32600	9800	2450	1970	10800	5600	5170	4160	1070	1720	5160	4590
6	30300	9550	2360	2090	10500	5170	4180	3890	1100	1480	5480	5380
7	28000	9450	2270	2190	10400	4630	3580	3660	1220	1320	5800	5770
8	26100	9450	2240	2290	10400	3680	3080	3530	1560	1240	6130	5990
9	24400	9450	2200	2420	10100	3420	2740	3440	1450	1250	6370	6160
10	22700	9450	2220	2540	9930	3410	2490	2800	1140	1220	6460	6150
11	20900	9400	2280	2750	9650	3200	2370	2160	1050	1080	6460	6030
12	18900	9230	2300	3140	9410	2920	2480	1860	995	953	7420	5620
13	16900	8830	2250	3690	9570	2750	2600	1710	925	1060	7960	4890
14	15100	8140	2210	4210	9550	2780	2690	1600	884	1180	8330	4010
15	13200	7380	2210	4640	9550	2800	2740	1560	822	1340	8450	3280
16	11700	6460	2250	5020	9650	2930	3170	1500	784	1650	7970	2520
17	11300	5450	2360	5380	9640	3920	3610	1300	782	1550	6710	1980
18	14500	4610	2670	5740	9590	5700	3990	1150	819	1430	5720	1900
19	18200	3920	3100	6070	9490	6370	4480	1110	989	1820	4480	2740
20	21100	3400	3580	6290	9470	6190	5130	1090	1040	1830	3300	2930
21	22800	3060	3780	6350	9510	5860	5530	1020	1100	1630	2500	2900
22	23400	2870	3860	6470	9500	5710	5580	1040	1220	1440	2010	2670
23	23800	2710	3910	6420	9290	5750	5590	1060	1500	1250	1870	2860
24	23800	2640	3950	6430	8930	5710	5540	994	1770	1170	1700	4090
25	23700	2630	3960	6470	8670	5810	5460	960	2060	995	1670	4740
26	23100	2660	3880	6570	8590	5800	5410	1050	2150	1830	1470	5370
27	22000	2760	3700	7060	8760	5850	5480	1050	1870	2930	1320	5990
28	20600	2830	3270	7960	8720	5910	5750	1020	1390	3810	1250	6400
29	19000	2850	2840	8610	8470	5900	6000	1110	1150	4320	1270	6340
30	17200	2830	2560	9060	---	6000	5990	1300	995	4440	1230	6480
31	15400	---	2380	9840	---	5980	---	1430	---	4300	2140	---
TOTAL	714100	198910	87810	150150	282040	157810	134390	70324	36325	57028	138930	131300
MEAN	23040	6630	2833	4844	9726	5091	4480	2269	1211	1840	4482	4377
MAX	40300	13600	3960	9840	11200	7950	6000	5970	2150	4440	8450	6480
MIN	11300	2630	2200	1970	8470	2750	2370	960	782	953	1230	1900
CFSM	5.91	1.70	.73	1.24	2.49	1.31	1.15	.58	.31	.47	1.15	1.12
IN.	6.81	1.90	.84	1.43	2.69	1.51	1.28	.67	.35	.54	1.33	1.25

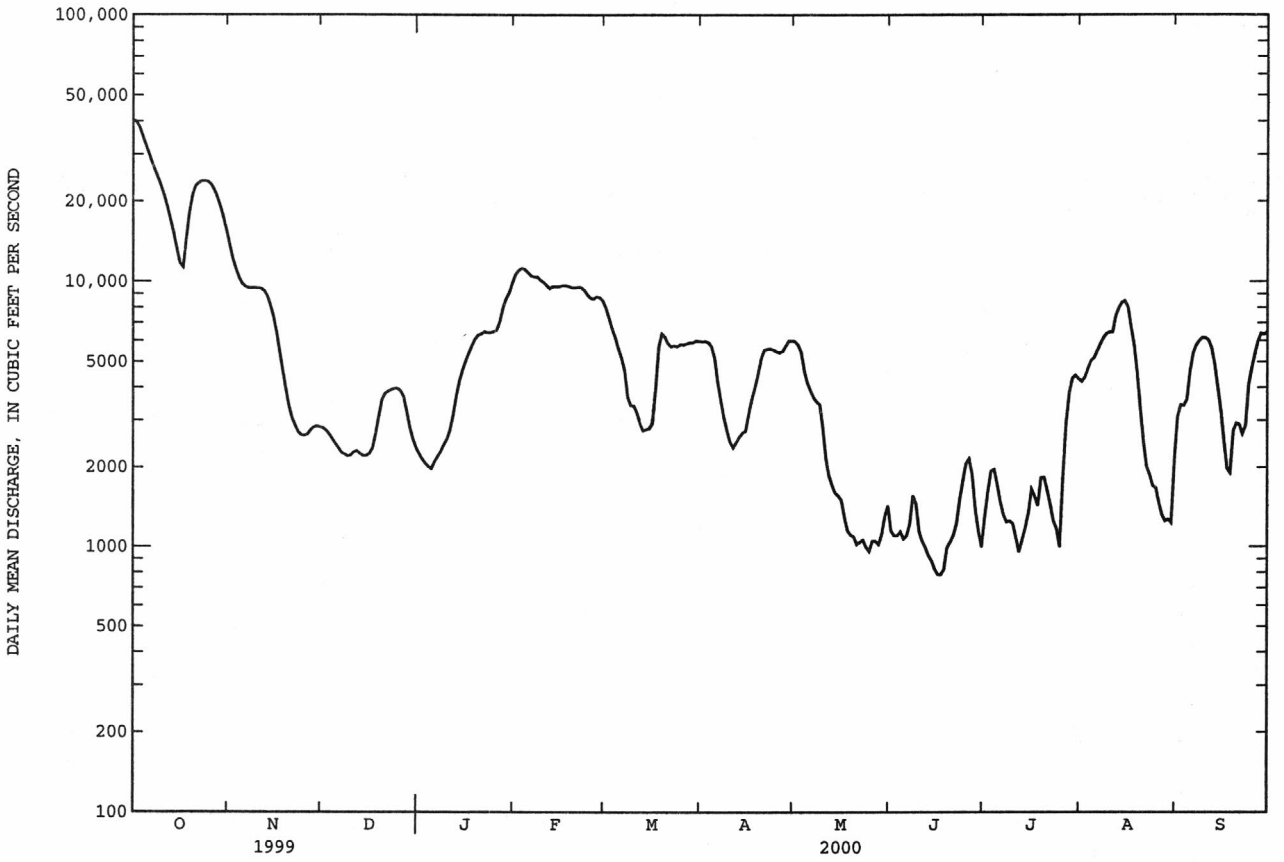
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	8735	3372	3599	6872	10430	7341	5475	3293	1507	1367	2063	8674
MAX	23040	6630	6969	8707	19110	15340	11760	5023	1937	1840	4482	26590
(WY)	2000	2000	1997	1998	1998	1998	1998	1997	1998	2000	2000	1999
MIN	1060	968	1764	4844	6366	3191	2739	1874	988	1126	840	1041
(WY)	1999	1999	1999	2000	1997	1999	1999	1999	1999	1999	1999	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	2537017		2159117			
ANNUAL MEAN	6951		5899		5193	
HIGHEST ANNUAL MEAN					5902	1998
LOWEST ANNUAL MEAN					4442	1997
HIGHEST DAILY MEAN	57000	Sep 20	40300	Oct 1	57000	Sep 20 1999
LOWEST DAILY MEAN	382	Jun 11	782	Jun 17	382	Jun 11 1999
ANNUAL SEVEN-DAY MINIMUM	534	Jun 9	858	Jun 13	534	Jun 9 1999
INSTANTANEOUS PEAK FLOW			24300*	Oct 23	e57200	Sep 20 1999
INSTANTANEOUS PEAK STAGE			14.34*	Oct 23	22.75*	Sep 20 1999
INSTANTANEOUS LOW FLOW			714	Jun 18	41	Jul 11 1999
ANNUAL RUNOFF (CFSM)	1.78		1.51		1.33	
ANNUAL RUNOFF (INCHES)	24.20		20.59		18.09	
10 PERCENT EXCEEDS	18900		11000		11900	
50 PERCENT EXCEEDS	2900		3920		2950	
90 PERCENT EXCEEDS	796		1160		926	

e Estimated.
* See REMARKS.

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued



02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 - 60, 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1954 to September 1960.

WATER TEMPERATURE: September 1954 to September 1960.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). Daily records of specific conductance for September 1954 to September 1960 are available in the files of the District Office in Raleigh, NC. Sample in September 1999 collected during flooding from Hurricane Floyd.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 673 microsiemens, Aug. 21, 1955; minimum daily, 39 microsiemens, Nov. 2, 1959.

WATER TEMPERATURE: Maximum daily, 35.0°C, June 28, 29, 1959; minimum daily, 0.0°C Jan. 13, 1955, Dec. 11, 1958.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
APR												
19...	1130	4570	765	79	7.7	6.2	105	16.7	24	5.90	2.20	3.1
MAY												
31...	1645	1370	770	82	7.2	6.6	134	22.0	28	7.00	2.50	3.8
JUN												
28...	0945	1310	765	89	6.9	6.9	128	29.1	25	6.20	2.30	3.7
JUL												
28...	1045	3550	--	--	6.4	6.7	134	26.2	27	6.80	2.40	3.5
AUG												
24...	1415	1780	765	77	6.2	6.6	121	26.9	28	6.80	2.70	3.3
SEP												
28...	1445	6450	770	56	5.0	6.1	87	21.2	23	5.90	1.90	3.8

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 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, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
APR												
19...	.8	8.8	41	12.0	.1	6.4	7.6	.42	.59	.120	.710	.30
MAY												
31...	1	12.0	44	12.0	.2	7.3	12.0	.41	.55	.110	.990	.30
JUN												
28...	1	12.0	47	12.0	.2	7.7	11.0	.27	.41	.060	--	.21
JUL												
28...	1	13.0	47	13.0	.2	8.0	12.0	.47	.50	.080	--	.39
AUG												
24...	1	12.0	45	12.0	.1	9.2	8.6	.45	.58	.050	--	.40
SEP												
28...	.5	5.7	31	8.7	.1	7.3	7.6	.61	.76	.040	--	.57

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	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)
APR												
19...	1.3	1.1	.720	.010	.47	.060	.040	.140	7.4	70	790	24
MAY												
31...	1.5	1.4	1.00	.010	.44	.060	.040	.110	6.0	81	320	44
JUN												
28...	.95	.81	.540	<.010	.35	.060	.070	.140	7.1	79	420	25
JUL												
28...	1.2	1.2	.740	<.010	.42	.070	.050	.120	6.7	87	220	22
AUG												
24...	1.2	1.0	.580	<.010	.53	.060	.060	.110	8.2	85	880	78
SEP												
28...	1.1	.97	.360	<.010	.72	.060	.060	.110	11	75	480	32



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

0209205053 SWIFT CREEK AT NC HIGHWAY 43 NEAR STREETS FERRY, NC

LOCATION.--Lat 35°13'56", long 77°06'52", Craven County, Hydrologic Unit 03020202, at downstream side of bridge on NC Highway 43, 0.5 mi upstream from mouth, 2 mi upstrean from Little Fisher Creek, and 1.3 mi north-northeast of Streets Ferry.

DRAINAGE AREA.--269 mi^2.

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

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is sea level. Prior to Oct. 1999 datum reported as 10 ft below sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from flood mark. This site is strongly affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. The published 24.0 hour mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2740	459	126	70	1240	208	391	1100	549	129	424	1020
2	2720	450	143	76	1430	93	e310	808	114	200	298	1260
3	2460	767	118	81	1250	193	e230	383	-217	160	282	1280
4	2010	620	84	128	917	91	181	731	585	120	190	1000
5	1550	767	78	73	585	316	101	359	113	86	296	696
6	1170	493	89	154	413	122	224	215	247	18	291	2320
7	e805	323	23	77	418	140	77	183	91	114	256	2660
8	773	269	88	93	234	78	156	159	178	215	175	2740
9	931	324	82	113	330	138	63	168	120	259	138	2000
10	637	220	118	178	269	48	123	131	94	56	129	1200
11	521	114	62	230	261	173	144	74	91	3.5	125	716
12	105	163	107	381	263	160	19	144	69	144	e110	591
13	804	258	75	372	611	127	14	97	110	173	e190	402
14	606	206	96	248	942	125	393	30	67	122	e100	233
15	112	142	62	220	930	165	397	-75	36	113	157	272
16	742	161	82	148	1380	124	507	332	74	143	116	216
17	556	94	86	96	836	109	776	151	101	111	25	174
18	2480	177	51	e150	1190	981	741	93	107	115	186	-4.9
19	4400	117	36	e94	719	1230	623	91	50	125	-42	1340
20	5030	106	183	177	471	1520	627	68	34	.25	94	999
21	4700	79	67	113	471	1520	643	-7.1	166	83	63	825
22	3960	57	148	e115	509	890	235	277	155	271	261	408
23	3180	97	226	227	432	588	422	173	57	359	117	975
24	1970	87	76	75	264	858	223	98	154	459	58	786
25	1680	150	260	1060	271	665	329	31	147	442	-1.9	866
26	1410	139	135	1120	255	365	244	169	112	2470	173	991
27	888	161	106	1690	229	329	437	161	116	2060	104	1020
28	648	95	58	e1650	220	378	339	197	91	1400	320	1470
29	621	243	64	e1210	201	207	705	285	-34	1040	425	751
30	634	247	92	983	---	168	1010	-226	31	664	205	1310
31	539	---	66	955	---	228	---	555	---	585	1120	---
TOTAL	51382	7585	3087	12357	17541	12337	10684	6954.9	3608	12239.75	6384.1	30516.1
MEAN	1657	253	99.6	399	605	398	356	224	120	395	206	1017
MAX	5030	767	260	1690	1430	1520	1010	1100	585	2470	1120	2740
MIN	105	57	23	70	201	48	14	-226	-217	.25	-42	-4.9
CFSM	6.16	.94	.37	1.48	2.25	1.48	1.32	.83	.45	1.47	.77	3.78
IN.	7.11	1.05	.43	1.71	2.43	1.71	1.48	.96	.50	1.69	.88	4.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

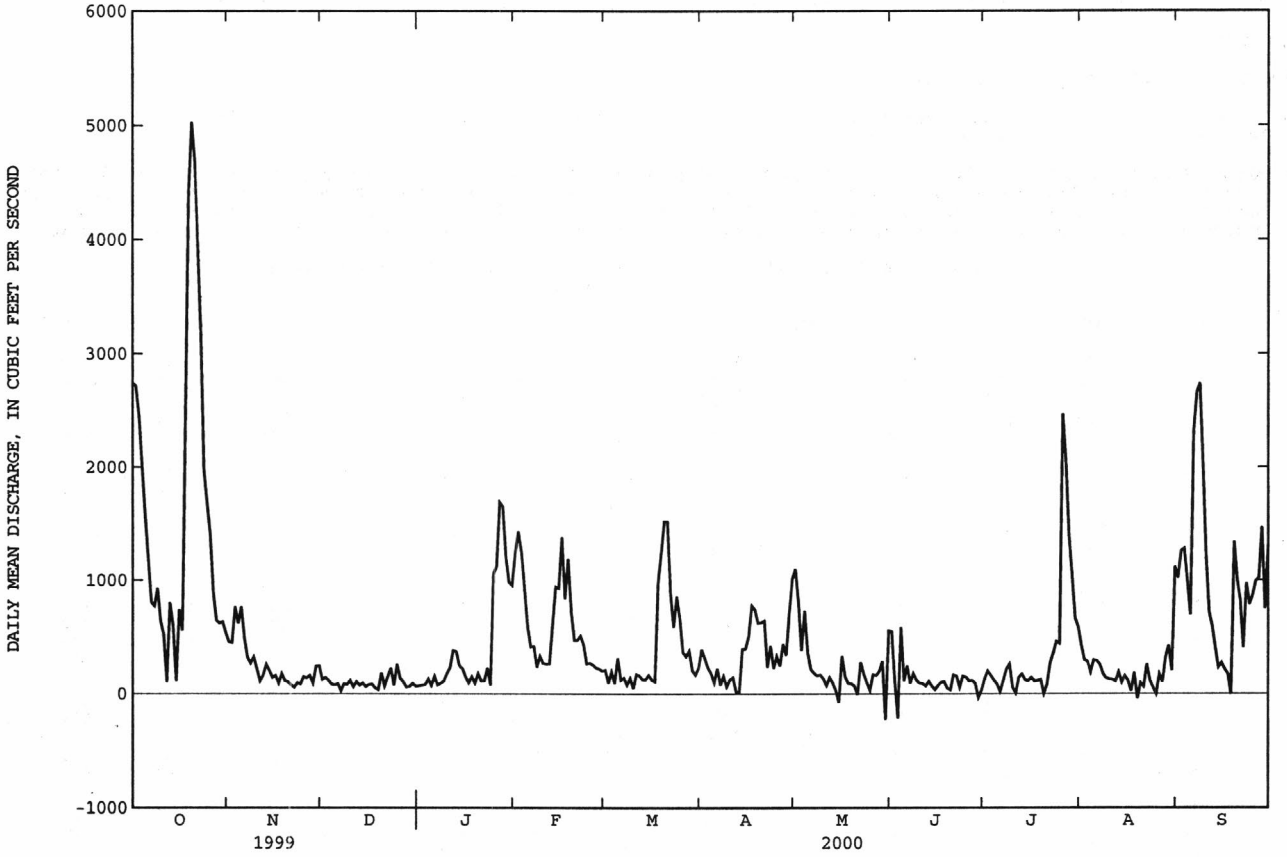
MEAN	588	124	210	529	738	377	252	238	114	253	154	1368
MAX	1657	253	276	912	1715	558	394	450	265	594	303	3943
(WY)	2000	2000	1998	1998	1998	1998	1998	1998	1998	1996	1998	1999
MIN	-61.1	-2.99	99.6	194	271	259	90.8	104	30.1	62.9	-19.2	109
(WY)	1999	1999	2000	1997	1997	1999	1997	1997	1997	1997	1999	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	230743.6		174675.85			
ANNUAL MEAN	632		477		399	
HIGHEST ANNUAL MEAN					477	2000
LOWEST ANNUAL MEAN					202	1997
HIGHEST DAILY MEAN	e10600	Sep 21	5030	Oct 20	e10600	Sep 21 1999
LOWEST DAILY MEAN	-1970	Aug 30	-226	May 30	-1970	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	-321	Aug 29	67	Jun 14	-321	Aug 29 1999
INSTANTANEOUS PEAK FLOW			NOT DETERMINED		10900	Sep 21 1999
INSTANTANEOUS PEAK STAGE			6.95	Oct 2	12.28*	Sep 21 1999
INSTANTANEOUS LOW FLOW			-1170	Aug 30	-5140	Aug 30 1999
10 PERCENT EXCEEDS	1600		1200		1020	
50 PERCENT EXCEEDS	182		208		159	
90 PERCENT EXCEEDS	-21		67		-11	

e Estimated.
* See REMARKS.

Note.--Negative values indicate reverse flow.

0209205053 SWIFT CREEK AT NC HIGHWAY 43 NEAR STREETS FERRY, NC--Continued



02092162 NEUSE RIVER AT NEW BERN, NC

LOCATION.--Lat 35°06'33", long 77°01'59", Craven County, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Marker 38.

DRAINAGE AREA.--4,470 mi^2.

PERIOD OF RECORD.-- Water years 1957-67, 1996 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): June 1996 to current year.

pH (TOP AND BOTTOM): June 1996 to current year.

WATER TEMPERATURE (TOP AND BOTTOM): June 1996 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): June 1996 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION, (TOP AND BOTTOM): June 1996 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from June 1996 to current year.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was relocated from the U.S. Highway 17 bridge at New Bern to channel marker 38 on August 5, 1999. Channel marker 38 is approximately 500 yards upstream of the bridge. Top constituents were monitored at 8 feet above the streambed, and bottom constituents, 2 feet above the streambed. Salinity and dissolved oxygen, percent saturation are computed. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%. Daily records of salinity and water temperature for October 1956 to September 1967 are available in the files of the District Office in Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	14.1, August 5, 1999	<0.1, on many days during the period
SALINITY (BOTOM), ppt	19.2, August 15, 2000	<0.1, on many days during the period
pH (TOP), standard units	9.9, June 6, 7, 1999	5.7, September 29, 30, 1999, October 9, 14, 15, 1999
pH (BOTTOM), standard units	9.7, July 10, 11, 1997	4.9, October 13, 15-17, 1999
WATER TEMPERATURE (TOP), °C	33.4, August 1, 1999	1.0, January 29, 2000
WATER TEMPERATURE (BOTTOM), °C	31.0, July 23, 1998	1.1, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	17.4, December 19, 1997	<1.0, on several days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	16.1, January 8, 1998	<1.0, on several days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	11.8, August 21	<0.1, on many days during the year
SALINITY (BOTTOM), ppt	19.2, August 15	<0.1, on many days during the year
pH (TOP), standard units	9.1, June 12	5.7, October 9, 14, 15
pH (BOTTOM), standard units	8.9, June 11, 14	4.9, October 13, 15-17
WATER TEMPERATURE (TOP), °C	32.1, June 23	1.0, January 29
WATER TEMPERATURE (BOTTOM), °C	29.8, June 25-27	1.1, January 29
DISSOLVED OXYGEN (TOP), mg/L	13.3, June 10	<1.0, July 21, August 21, 22
DISSOLVED OXYGEN (BOTTOM), mg/L	12.2, January 29	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	170, June 10	<10, August 21, 22
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	144, June 11	<10, on several days during the year

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	.04	.03	.03	.04	.03	.03	.12	.06	.10	.09	.06	.07
2	.04	.03	.04	.04	.03	.03	.12	.08	.10	.08	.06	.07
3	.04	.03	.04	.05	.03	.04	.08	.06	.07	.10	.07	.08
4	.04	.03	.04	.05	.03	.04	.08	.06	.07	---	---	---
5	.04	.04	.04	.05	.03	.04	.08	.06	.07	.25	.06	.15
6	.06	.04	.04	.05	.04	.04	.08	.06	.07	.23	.07	.13
7	.04	.03	.03	.05	.04	.04	.15	.06	.10	.11	.07	.08
8	.04	.03	.03	.05	.04	.04	.13	.07	.10	.10	.07	.08
9	.03	.03	.03	.06	.03	.04	---	---	---	.10	.07	.08
10	.03	.03	.03	.06	.04	.05	.08	.06	.07	.09	.06	.07
11	.03	.03	.03	.07	.04	.04	.09	.06	.07	.08	.06	.07
12	.03	.03	.03	.07	.04	.04	.08	.07	.08	.08	.06	.07
13	.03	.02	.03	.05	.04	.04	.09	.07	.08	.09	.06	.07
14	.03	.02	.03	.06	.04	.05	.09	.07	.08	.27	.06	.14
15	.03	.02	.03	.06	.04	.05	.08	.07	.08	.11	.06	.07
16	.03	.02	.02	.07	.04	.05	.09	.06	.08	.08	.04	.05
17	.03	.02	.03	.06	.05	.06	.09	.07	.08	.08	.04	.05
18	.04	.03	.03	.05	.04	.05	.09	.07	.08	.06	.05	.05
19	.04	.03	.03	.06	.05	.05	.22	.08	.14	.10	.05	.06
20	.04	.03	.03	.06	.05	.06	.18	.09	.13	---	---	---
21	.04	.03	.03	.06	.05	.06	.18	.13	.16	.06	.04	.05
22	.05	.04	.04	.07	.06	.06	---	---	---	.07	.04	.06
23	.05	.04	.04	.09	.06	.06	---	---	---	.05	.04	.05
24	.05	.04	.04	.09	.06	.07	.52	.34	.44	.19	.04	.07
25	.06	.04	.04	.07	.06	.06	1.0	.38	.60	.19	.04	.05
26	.06	.04	.04	.07	.06	.07	1.3	.60	.85	.08	.05	.07
27	.05	.04	.04	.10	.06	.07	.87	.12	.37	.07	.04	.05
28	.05	.02	.03	.09	.06	.08	.16	.06	.11	.06	.04	.05
29	.03	.02	.03	.08	.06	.07	.46	.08	.21	.05	.04	.04
30	.03	.03	.03	.13	.06	.09	---	---	---	.05	.04	.04
31	.03	.03	.03	---	---	---	---	---	---	.05	.04	.04
MONTH	.06	.02	.03	.13	.03	.05	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.04	.04	.04	.04	.04	.04	.05	.04	.05	.06	.04	.05
2	.04	.04	.04	.05	.04	.04	.05	.04	.05	.04	.04	.04
3	.04	.04	.04	.05	.04	.04	.05	.04	.05	.05	.04	.04
4	.04	.04	.04	.11	.04	.06	.05	.04	.05	.04	.04	.04
5	.04	.04	.04	.06	.04	.05	.06	.05	.06	.04	.04	.04
6	.05	.04	.04	.11	.05	.08	---	---	---	.04	.04	.04
7	.04	.04	.04	.19	.09	.13	---	---	---	.04	.04	.04
8	---	---	---	.13	.06	.08	.06	.05	.05	.04	.04	.04
9	.04	.04	.04	.09	.05	.06	---	---	---	.05	.04	.04
10	.04	.04	.04	.07	.05	.06	.06	.06	.06	.05	.04	.04
11	---	---	---	.06	.05	.05	.06	.06	.06	.05	.04	.05
12	---	---	---	.32	.05	.09	.06	.06	.06	.05	.04	.05
13	---	---	---	.31	.12	.20	.07	.06	.06	.05	.04	.05
14	---	---	---	.20	.06	.07	.07	.06	.07	.30	.04	.07
15	---	---	---	.06	.06	.06	.07	.06	.06	.92	.05	.35
16	---	---	---	.06	.05	.06	.08	.06	.07	.33	.07	.17
17	---	---	---	.21	.05	.10	.09	.07	.08	.08	.05	.07
18	---	---	---	.19	.05	.07	.07	.06	.07	.08	.06	.07
19	---	---	---	.07	.06	.06	.08	.05	.06	.27	.06	.13
20	---	---	---	.06	.04	.05	.07	.05	.06	.31	.14	.23
21	---	---	---	.05	.04	.05	.05	.05	.05	.26	.09	.20
22	---	---	---	.12	.05	.07	.05	.05	.05	.19	.07	.11
23	.04	.04	.04	.12	.04	.06	.06	.05	.05	.09	.07	.08
24	.04	.04	.04	.05	.04	.04	.06	.05	.05	.08	.07	.07
25	.04	.04	.04	.05	.05	.05	.06	.04	.05	.43	.07	.10
26	.04	.04	.04	.05	.05	.05	.05	.04	.05	.43	.07	.13
27	.04	.04	.04	.05	.04	.05	.05	.05	.05	.23	.06	.11
28	.05	.04	.04	---	---	---	.05	.04	.05	.73	.06	.31
29	.04	.04	.04	---	---	---	.06	.04	.05	1.2	.16	.57
30	---	---	---	.06	.04	.05	.06	.05	.05	3.7	.67	2.5
31	---	---	---	.05	.04	.05	---	---	---	1.7	.35	.81
MONTH	---	---	---	---	---	---	---	---	---	3.7	.04	.21

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	1.0	.18	.41	5.4	.41	1.1	.07	.04	.05	1.2	.24	.56
2	1.0	.16	.33	5.1	1.0	2.2	.09	.05	.05	.25	.07	.16
3	3.6	.16	1.1	3.2	1.4	2.2	.06	.05	.05	.10	.06	.08
4	2.1	.49	.96	2.2	1.6	1.9	.05	.05	.05	.07	.06	.06
5	.67	.37	.51	2.6	1.2	1.6	.15	.05	.06	4.6	.06	.94
6	2.5	.44	1.3	---	---	---	1.7	.06	.35	3.1	.61	1.4
7	3.2	1.7	2.5	4.6	1.2	1.8	.44	.22	.33	1.1	.28	.66
8	2.5	1.4	1.9	6.5	2.0	2.9	.41	.15	.29	.41	.06	.18
9	1.6	.99	1.3	5.2	2.1	3.2	.30	.06	.18	.09	.05	.07
10	1.3	.66	1.0	3.9	2.4	2.9	.45	.06	.15	.10	.05	.06
11	1.1	.48	.74	2.9	2.3	2.7	---	---	---	.08	.05	.06
12	1.0	.43	.66	4.1	2.2	2.9	---	---	---	.11	.05	.06
13	.86	.29	.43	5.1	2.8	3.4	---	---	---	.09	.04	.06
14	.65	.25	.40	5.5	1.5	3.3	---	---	---	.08	.04	.06
15	1.2	.28	.52	3.9	2.6	3.1	---	---	---	.23	.06	.10
16	.41	.23	.31	4.3	1.5	2.5	4.5	1.8	2.7	1.1	.17	.36
17	.66	.22	.38	6.9	1.6	3.0	---	---	---	.67	.17	.35
18	.52	.16	.29	7.3	2.0	4.4	1.6	.53	.82	2.2	.27	.65
19	.59	.15	.30	5.0	2.8	3.8	2.9	.53	.78	1.7	.20	.78
20	1.2	.39	.75	3.7	2.0	2.8	6.9	.35	1.1	.22	.08	.13
21	.95	.22	.37	6.3	2.1	3.4	11.8	.69	4.5	.10	.06	.07
22	.50	.26	.32	6.4	1.5	2.9	10.9	2.7	7.4	.22	.06	.10
23	1.3	.28	.61	7.5	1.4	2.8	5.2	1.9	3.5	.13	.06	.07
24	1.4	.29	.49	4.8	1.4	2.2	3.4	1.8	2.5	.09	.05	.07
25	1.4	.35	.57	4.1	.99	1.6	5.8	1.2	2.3	.06	.05	.06
26	.48	.16	.32	3.9	.25	1.3	8.5	2.1	4.2	.06	.05	.05
27	.67	.11	.29	1.2	.10	.33	5.8	2.3	3.4	.09	.05	.06
28	.31	.12	.19	1.2	.13	.34	3.5	1.4	2.3	.16	.07	.09
29	1.3	.12	.27	.41	.14	.22	5.4	1.0	2.2	2.2	.12	.50
30	1.3	.42	.72	.22	.11	.15	5.5	2.3	3.4	2.0	.54	1.1
31	---	---	---	.15	.04	.07	3.5	.72	1.8	---	---	---
MONTH	3.6	.11	.67	---	---	---	---	---	---	4.6	.04	.30

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	.05	.03	.03	.04	.03	.03	.11	.06	.09	2.0	.07	1.5
2	.04	.03	.04	.04	.03	.03	.10	.07	.09	2.3	.09	1.2
3	.04	.03	.04	.05	.03	.04	.07	.06	.06	.41	.07	.16
4	.04	.03	.04	.06	.04	.05	.07	.06	.07	---	---	---
5	.05	.04	.04	.05	.04	.04	.08	.06	.07	.26	.06	.15
6	.06	.04	.04	.05	.04	.04	.07	.06	.06	.21	.07	.12
7	.04	.03	.03	.05	.04	.04	.14	.06	.09	.26	.07	.11
8	.04	.03	.03	.05	.04	.04	.12	.06	.08	.16	.07	.10
9	.03	.03	.03	.05	.04	.04	---	---	---	.12	.07	.08
10	.03	.03	.03	.05	.04	.04	.08	.06	.07	.08	.06	.06
11	.03	.03	.03	.06	.04	.04	.07	.06	.07	.08	.06	.07
12	.03	.03	.03	.06	.03	.04	.08	.06	.07	.08	.05	.07
13	.04	.02	.03	.06	.04	.04	.08	.06	.07	.08	.05	.06
14	.03	.02	.02	.06	.04	.04	.07	.06	.07	.24	.06	.13
15	.03	.02	.02	.06	.04	.04	.07	.06	.07	.12	.06	.07
16	.04	.02	.02	.06	.04	.05	.08	.06	.07	.07	.04	.05
17	.03	.02	.03	.06	.04	.05	.08	.06	.07	.07	.04	.05
18	.04	.03	.03	.05	.04	.05	.09	.07	.08	.06	.04	.05
19	.04	.03	.03	.06	.04	.05	3.9	.07	.52	.11	.05	.07
20	.04	.03	.03	.06	.04	.05	4.1	.19	2.5	.06	.04	.04
21	.04	.03	.03	.06	.05	.06	4.7	.78	2.5	.07	.04	.05
22	.05	.03	.04	.06	.05	.05	---	---	---	.07	.04	.06
23	.06	.04	.05	.07	.05	.06	---	---	---	.05	.04	.04
24	.05	.04	.04	.08	.05	.06	4.5	2.4	4.0	.20	.04	.07
25	.05	.04	.04	.06	.06	.06	3.4	.44	.91	.17	.04	.05
26	.05	.04	.04	.06	.06	.06	1.6	.62	1.1	.07	.05	.06
27	.05	.04	.04	.10	.05	.07	1.3	.22	.72	.07	.04	.05
28	.05	.02	.03	.09	.06	.07	1.2	.12	.59	.05	.04	.04
29	.03	.02	.03	.07	.06	.07	1.6	.16	.75	.05	.04	.04
30	.04	.03	.03	.12	.06	.08	---	---	---	.05	.04	.04
31	.03	.03	.03	---	---	---	---	---	---	.05	.04	.04
MONTH	.06	.02	.03	.12	.03	.05	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	.04	.04	.04	.04	.04	.04	.04	.04	.04	.06	.04	.05
2	.04	.03	.04	.05	.04	.04	.04	.04	.04	.04	.04	.04
3	.04	.03	.03	.05	.04	.04	.04	.04	.04	.05	.04	.04
4	.04	.03	.04	.15	.04	.06	.04	.04	.04	.04	.04	.04
5	.04	.04	.04	.55	.04	.08	.06	.04	.05	.04	.04	.04
6	.05	.04	.04	5.2	.11	3.4	.05	.04	.05	.04	.04	.04
7	.04	.04	.04	5.2	.09	2.8	.05	.05	.05	.04	.04	.04
8	---	---	---	.54	.06	.15	.05	.05	.05	.04	.04	.04
9	.04	.04	.04	.26	.05	.11	.07	.05	.06	.05	.04	.04
10	.04	.04	.04	.14	.05	.06	.07	.05	.06	.05	.04	.05
11	---	---	---	.05	.05	.05	.06	.06	.06	.05	.04	.05
12	---	---	---	.64	.05	.13	.06	.05	.06	.05	.04	.05
13	---	---	---	.31	.15	.22	.07	.06	.06	.06	.04	.05
14	---	---	---	.20	.06	.08	.07	.06	.06	.66	.05	.13
15	---	---	---	.09	.06	.06	.07	.06	.06	1.5	.05	.52
16	---	---	---	.07	.05	.06	.07	.06	.07	.48	.07	.23
17	---	---	---	.23	.05	.10	.09	.07	.08	.31	.05	.11
18	---	---	---	.19	.05	.07	.07	.06	.06	.14	.06	.08
19	---	---	---	.07	.06	.06	.07	.05	.06	.41	.07	.18
20	---	---	---	.07	.04	.05	.07	.05	.05	.31	.16	.24
21	---	---	---	.05	.04	.05	.05	.05	.05	.26	.18	.22
22	---	---	---	.12	.05	.07	.05	.05	.05	.26	.08	.12
23	.04	.04	.04	.11	.04	.06	.05	.05	.05	.09	.07	.08
24	.04	.04	.04	.05	.04	.05	.06	.05	.05	.09	.07	.08
25	.04	.04	.04	.05	.04	.05	.05	.04	.05	.43	.08	.11
26	.04	.04	.04	.05	.05	.05	.05	.04	.05	2.4	.08	.73
27	.04	.04	.04	.05	.04	.05	.05	.05	.05	2.4	.09	1.3
28	.05	.04	.04	.05	.04	.04	.05	.05	.05	1.1	.09	.51
29	.05	.04	.04	.06	.04	.05	.06	.05	.05	1.6	.23	.80
30	---	---	---	.05	.04	.05	.06	.05	.05	3.9	.81	2.7
31	---	---	---	.05	.04	.04	---	---	---	3.5	1.2	2.2
MONTH	---	---	---	5.2	.04	.27	.09	.04	.05	3.9	.04	.35

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3.2	2.1	2.7	11.8	9.7	11.0	.19	.04	.06	3.3	.33	2.0
2	4.9	1.3	3.7	11.8	7.5	10.8	.13	.05	.06	1.1	.09	.30
3	5.2	2.6	4.0	10.9	2.7	7.7	.08	.05	.05	.15	.06	.10
4	4.2	2.6	3.6	4.2	2.0	2.9	.05	.05	.05	.07	.06	.06
5	5.1	3.7	4.3	10.0	1.7	5.1	---	---	---	7.9	.07	3.3
6	5.5	3.2	4.7	---	---	---	---	---	---	9.7	4.7	8.4
7	5.9	3.0	4.8	12.0	10.7	11.4	---	---	---	9.7	7.3	8.8
8	5.2	2.4	4.4	12.4	9.9	11.4	---	---	---	8.2	.54	3.9
9	3.6	1.9	3.0	11.1	3.4	8.1	---	---	---	1.5	.16	.36
10	2.5	1.0	2.0	6.1	2.9	3.7	---	---	---	2.2	.06	.26
11	1.8	.62	1.4	8.8	3.0	5.1	---	---	---	.96	.07	.31
12	1.2	.63	.97	10.2	8.1	9.2	---	---	---	1.3	.07	.34
13	2.3	.42	1.0	9.5	7.7	8.7	---	---	---	1.3	.05	.45
14	2.1	.30	.87	9.3	4.7	7.8	---	---	---	1.7	.06	.43
15	1.9	.33	1.1	6.5	3.1	5.4	---	---	---	3.0	.05	.41
16	1.1	.25	.60	9.4	5.2	7.2	19.0	15.7	18.1	7.1	.69	4.4
17	.92	.39	.72	9.7	7.1	8.8	---	---	---	7.0	5.2	6.5
18	.69	.21	.50	10.0	5.9	9.2	13.5	.87	9.7	8.3	3.6	6.8
19	.63	.21	.41	9.1	3.0	6.8	14.7	.87	11.1	6.8	.37	2.3
20	4.9	.40	2.4	8.3	3.0	5.4	14.5	12.6	13.5	.47	.07	.18
21	6.7	1.6	4.8	9.0	6.9	8.2	14.3	13.5	14.0	.18	.05	.07
22	1.7	.28	.71	9.1	7.4	8.5	13.9	10.7	13.0	.31	.04	.11
23	6.6	.61	3.6	9.7	5.2	8.2	12.7	5.0	9.8	.13	.04	.06
24	8.1	2.0	6.0	7.8	3.5	5.9	8.5	4.6	6.2	.13	.03	.06
25	5.3	.35	2.8	9.7	5.4	7.9	10.9	5.5	8.3	.12	.03	.05
26	1.1	.11	.55	8.9	2.4	5.3	11.3	9.0	10.4	.04	.03	.03
27	.86	.07	.58	9.0	4.4	7.1	9.8	4.3	7.6	5.0	.03	.67
28	.71	.07	.38	9.5	3.9	8.3	7.6	5.1	6.5	10.2	4.3	7.6
29	2.9	.13	.79	8.5	.40	5.1	8.1	5.0	6.7	11.3	10.2	10.8
30	10.3	2.7	6.5	1.0	.13	.38	8.6	3.8	5.9	11.0	8.0	10.2
31	---	---	---	.16	.04	.08	5.7	2.4	4.5	---	---	---
MONTH	10.3	.07	2.5	---	---	---	---	---	---	11.3	.03	2.6

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	6.2	5.9	5.9	6.4	6.0	6.3	7.1	6.6	6.9	6.3	6.1	6.2
2	6.2	5.8	5.9	6.3	6.1	6.2	7.0	6.6	6.9	6.3	6.1	6.2
3	6.0	5.9	5.9	6.4	6.1	6.2	6.6	6.3	6.4	6.3	6.1	6.2
4	6.1	5.9	6.0	6.5	6.1	6.3	6.5	6.2	6.4	---	---	---
5	6.3	5.9	6.1	6.6	6.3	6.4	6.4	6.2	6.3	6.9	6.4	6.7
6	6.4	6.0	6.2	6.9	6.5	6.6	6.4	6.3	6.3	6.8	6.4	6.7
7	6.1	5.9	6.0	6.8	6.4	6.6	7.0	6.3	6.7	6.5	6.3	6.4
8	6.2	5.8	6.0	6.7	6.5	6.6	6.9	6.4	6.6	6.5	6.3	6.3
9	5.9	5.7	5.8	6.7	6.2	6.5	---	---	---	6.4	6.2	6.3
10	5.9	5.8	5.8	6.5	6.3	6.4	6.4	6.3	6.4	6.4	6.1	6.3
11	5.9	5.8	5.8	6.6	6.3	6.4	6.6	6.3	6.4	6.5	6.3	6.4
12	5.9	5.8	5.9	6.6	6.3	6.4	6.5	6.3	6.4	6.5	6.3	6.4
13	6.0	5.8	5.9	6.4	6.3	6.3	6.4	6.3	6.3	6.5	6.3	6.4
14	6.1	5.7	5.9	6.5	6.3	6.3	6.4	6.3	6.4	7.1	6.5	6.9
15	5.9	5.7	5.8	6.6	6.3	6.4	6.4	6.3	6.4	6.8	6.3	6.5
16	5.9	5.8	5.8	6.7	6.4	6.5	6.5	6.3	6.4	6.4	6.2	6.2
17	6.0	5.9	5.9	6.7	6.4	6.5	6.4	6.2	6.4	6.6	6.2	6.3
18	6.0	5.9	5.9	6.4	6.3	6.3	6.4	6.2	6.3	6.4	6.2	6.3
19	6.1	5.9	6.0	6.4	6.3	6.4	6.6	6.2	6.4	6.8	6.2	6.5
20	6.2	5.8	6.1	6.4	6.3	6.3	6.5	6.2	6.3	---	---	---
21	6.2	5.9	6.0	6.4	6.3	6.4	6.5	6.3	6.3	6.6	6.2	6.4
22	6.2	5.9	6.0	6.5	6.3	6.4	---	---	---	6.7	6.2	6.4
23	6.3	5.9	6.1	6.6	6.4	6.4	---	---	---	6.3	6.1	6.2
24	6.5	6.2	6.3	6.6	6.3	6.4	6.5	6.2	6.3	6.7	6.2	6.4
25	6.7	6.4	6.5	6.5	6.3	6.4	6.7	6.4	6.5	6.7	6.4	6.6
26	6.6	6.2	6.4	6.5	6.4	6.5	6.7	6.5	6.6	6.8	6.6	6.7
27	6.5	6.3	6.4	6.7	6.4	6.6	6.7	6.3	6.5	6.7	6.4	6.5
28	6.5	6.0	6.2	6.7	6.5	6.6	6.4	6.2	6.3	6.4	6.2	6.3
29	6.1	6.0	6.0	6.6	6.4	6.5	6.7	6.2	6.4	6.4	6.2	6.3
30	6.2	6.0	6.0	7.0	6.4	6.7	---	---	---	6.3	6.2	6.3
31	6.3	6.1	6.2	---	---	---	---	---	---	6.4	6.2	6.3
MONTH	6.7	5.7	6.0	7.0	6.0	6.4	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.4	6.2	6.3	6.7	6.5	6.6	7.2	6.8	7.0	6.8	6.6	6.6
2	6.4	6.1	6.3	6.7	6.5	6.6	7.2	6.9	7.0	6.8	6.6	6.6
3	6.3	6.1	6.2	6.8	6.5	6.6	7.3	6.9	7.1	6.8	6.2	6.6
4	6.3	6.1	6.2	6.7	6.5	6.6	7.2	7.0	7.1	6.9	6.5	6.6
5	6.4	6.2	6.3	6.7	6.4	6.6	7.7	7.0	7.3	7.0	6.5	6.7
6	6.4	6.2	6.3	6.8	6.6	6.7	---	---	---	6.9	6.6	6.7
7	6.3	6.2	6.3	6.9	6.6	6.7	7.2	6.9	7.0	7.7	6.7	6.9
8	---	---	---	6.9	6.7	6.8	7.2	6.8	7.0	7.1	6.9	7.0
9	6.3	6.3	6.3	7.0	6.7	6.8	---	---	---	7.2	6.6	6.9
10	---	---	---	7.0	6.9	6.9	8.3	7.3	7.6	7.8	6.7	6.9
11	---	---	---	7.0	6.8	6.9	7.6	7.0	7.3	8.2	6.9	7.4
12	---	---	---	7.7	7.0	7.3	8.0	7.0	7.3	7.7	6.8	7.1
13	---	---	---	7.8	7.5	7.6	7.8	7.2	7.5	8.4	6.8	7.3
14	---	---	---	7.6	7.2	7.3	7.2	6.9	7.0	8.8	6.8	7.6
15	---	---	---	---	---	---	7.1	6.8	6.9	8.5	7.0	7.6
16	---	---	---	---	---	---	6.8	6.8	6.8	8.6	7.1	7.8
17	---	---	---	---	---	---	6.9	6.7	6.8	7.5	6.8	6.9
18	---	---	---	---	---	---	6.9	6.7	6.8	7.0	6.7	6.9
19	---	---	---	---	---	---	7.1	6.8	7.0	8.2	6.9	7.3
20	---	---	---	---	---	---	7.1	6.6	6.8	8.6	7.1	7.8
21	---	---	---	---	---	---	6.7	6.6	6.6	8.6	7.4	7.9
22	---	---	---	---	---	---	6.8	6.6	6.7	8.0	7.0	7.3
23	6.5	6.2	6.3	---	---	---	6.8	6.7	6.7	8.0	6.4	7.0
24	6.5	6.4	6.5	---	---	---	6.7	6.6	6.7	6.6	6.3	6.4
25	6.8	6.5	6.6	---	---	---	7.2	6.6	6.7	7.2	6.4	6.6
26	6.9	6.7	6.8	---	---	---	7.1	6.7	6.7	8.1	6.5	7.1
27	6.8	6.5	6.7	---	---	---	6.7	6.6	6.7	7.0	6.7	6.8
28	6.9	6.5	6.7	---	---	---	6.8	6.6	6.7	8.1	6.6	7.1
29	6.6	6.4	6.5	---	---	---	6.8	6.6	6.7	7.6	6.8	7.2
30	---	---	---	6.8	6.7	6.7	6.7	6.6	6.6	8.0	7.5	7.8
31	---	---	---	7.0	6.7	6.8	---	---	---	7.9	6.8	7.3
MONTH	---	---	---	---	---	---	---	---	---	8.8	6.2	7.1

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	7.0	6.5	6.7	8.6	7.0	7.5	6.8	6.1	6.5	7.1	6.7	6.8
2	6.9	6.5	6.7	8.4	6.9	7.6	6.9	6.6	6.8	6.7	6.4	6.6
3	8.4	6.8	7.3	8.6	7.2	8.0	7.0	6.7	6.9	6.5	6.4	6.5
4	7.9	7.0	7.2	8.6	7.3	8.1	6.9	6.6	6.8	6.5	6.3	6.4
5	7.2	7.0	7.0	8.6	7.1	7.6	6.9	6.6	6.7	7.1	6.4	6.7
6	7.3	6.9	7.1	---	---	---	6.9	6.5	6.7	7.1	6.7	7.0
7	7.9	7.1	7.3	8.2	6.7	7.3	7.0	6.7	6.9	6.8	6.4	6.6
8	7.7	7.1	7.3	8.3	7.0	7.6	7.0	6.6	6.8	6.6	6.2	6.4
9	8.8	6.9	7.7	8.3	7.1	7.7	6.9	6.5	6.8	6.4	6.2	6.3
10	9.0	7.2	8.1	8.5	7.3	7.7	7.0	6.5	6.7	6.5	6.3	6.4
11	9.0	7.1	8.2	8.9	7.6	8.2	---	---	---	6.5	6.4	6.5
12	9.1	7.4	8.3	9.0	7.4	8.3	---	---	---	6.8	6.3	6.4
13	8.8	7.4	8.1	8.8	7.1	8.1	---	---	---	6.6	6.5	6.5
14	8.8	7.0	7.9	8.6	7.1	8.0	---	---	---	6.6	6.5	6.5
15	8.3	6.6	7.4	8.7	7.6	8.1	---	---	---	6.6	6.4	6.5
16	6.9	6.2	6.7	8.7	7.5	8.2	6.8	6.6	6.7	6.8	6.5	6.7
17	7.5	6.2	6.7	8.4	6.9	7.6	---	---	---	6.8	6.6	6.7
18	7.4	6.3	6.7	8.3	7.2	7.5	6.8	6.6	6.7	7.0	6.6	6.8
19	7.0	6.3	6.5	8.7	7.2	8.0	6.9	6.6	6.8	6.9	6.6	6.8
20	7.7	6.3	6.8	8.8	7.5	8.3	6.8	6.6	6.7	6.6	6.4	6.5
21	7.8	6.2	6.8	8.6	6.9	8.1	6.9	6.6	6.6	6.5	6.3	6.4
22	7.7	6.9	7.2	8.6	6.8	7.4	6.8	6.5	6.6	6.5	6.3	6.4
23	7.9	6.8	7.2	8.3	7.0	7.6	6.9	6.6	6.7	6.5	6.4	6.5
24	8.3	7.0	7.4	8.1	7.2	7.5	7.3	6.7	6.9	6.6	6.3	6.4
25	8.3	6.8	7.4	7.9	7.3	7.5	7.2	6.9	7.0	6.5	6.3	6.4
26	7.0	6.3	6.6	7.7	7.2	7.3	7.1	6.8	6.9	6.5	6.3	6.4
27	7.3	6.2	6.6	7.3	6.6	6.9	7.2	6.8	7.1	6.6	6.3	6.5
28	7.9	6.2	7.0	6.6	6.4	6.5	7.2	6.9	7.1	6.4	6.2	6.3
29	7.4	6.9	7.1	6.6	6.3	6.4	7.3	6.8	7.0	6.8	6.3	6.5
30	8.5	6.9	7.3	6.5	6.4	6.4	8.5	7.2	7.5	6.7	6.4	6.6
31	---	---	---	6.5	6.3	6.4	7.2	6.9	7.0	---	---	---
MONTH	9.1	6.2	7.2	---	---	---	---	---	---	7.1	6.2	6.5

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	5.8	5.7	5.7	---	---	---	7.1	6.6	7.0	7.1	6.6	6.9
2	6.0	5.7	5.8	---	---	---	7.1	6.7	7.0	7.0	6.5	6.9
3	6.0	5.7	5.8	---	---	---	6.7	6.4	6.5	6.7	6.5	6.6
4	5.9	5.6	5.7	---	---	---	6.6	6.4	6.5	---	---	---
5	6.2	5.9	6.0	---	---	---	6.5	6.4	6.5	7.1	6.7	6.9
6	6.5	6.1	6.3	---	---	---	6.5	6.4	6.4	7.1	6.7	6.9
7	6.1	5.9	6.0	---	---	---	7.2	6.5	6.8	7.0	6.6	6.7
8	6.0	5.8	5.9	---	---	---	7.1	6.6	6.8	6.8	6.6	6.7
9	5.9	5.6	5.7	---	---	---	---	---	---	6.7	6.5	6.6
10	5.6	5.4	5.5	6.6	6.4	6.5	6.6	6.4	6.5	6.6	6.4	6.5
11	5.6	5.3	5.4	6.7	6.4	6.4	6.7	6.5	6.6	6.7	6.5	6.6
12	5.3	5.1	5.2	6.7	6.3	6.4	6.6	6.4	6.5	6.8	6.6	6.7
13	5.3	4.9	5.1	6.6	6.3	6.4	6.5	6.4	6.4	6.7	6.5	6.6
14	5.3	5.0	5.1	6.6	6.3	6.4	6.6	6.4	6.5	7.3	6.7	7.1
15	5.3	4.9	5.1	6.7	6.4	6.5	6.6	6.5	6.6	7.1	6.6	6.8
16	5.3	4.9	5.1	6.7	6.4	6.5	6.7	6.6	6.6	6.7	6.4	6.5
17	5.2	4.9	5.0	6.7	6.3	6.5	6.7	6.6	6.6	6.8	6.4	6.6
18	5.4	5.1	5.3	6.4	6.2	6.3	6.7	6.5	6.6	6.7	6.4	6.5
19	5.7	5.4	5.5	6.4	6.2	6.3	7.0	6.5	6.8	7.1	6.5	6.7
20	---	---	---	6.4	6.2	6.3	7.0	6.8	6.9	6.7	6.3	6.4
21	---	---	---	6.4	6.3	6.4	6.9	6.8	6.8	6.9	6.4	6.6
22	---	---	---	6.5	6.3	6.4	---	---	---	7.0	6.5	6.8
23	---	---	---	6.6	6.3	6.4	---	---	---	6.5	6.4	6.5
24	---	---	---	6.6	6.3	6.4	7.0	6.9	6.9	6.9	6.3	6.6
25	---	---	---	6.4	6.3	6.4	7.1	6.8	6.9	6.9	6.6	6.7
26	---	---	---	6.5	6.4	6.5	7.0	6.8	6.9	6.9	6.7	6.8
27	---	---	---	6.8	6.4	6.6	7.1	6.7	6.9	6.8	6.5	6.7
28	---	---	---	6.8	6.5	6.6	7.2	6.5	6.9	6.5	6.3	6.4
29	---	---	---	6.6	6.4	6.5	7.1	6.7	7.0	6.4	6.3	6.4
30	---	---	---	7.0	6.5	6.7	---	---	---	6.4	6.3	6.3
31	---	---	---	---	---	---	---	---	---	6.3	6.2	6.3
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	6.3	6.2	6.3	6.7	6.5	6.6	7.3	6.9	7.1	6.8	6.5	6.6
2	6.2	6.2	6.2	6.9	6.6	6.7	7.3	6.9	7.1	6.7	6.6	6.6
3	6.2	6.1	6.1	6.9	6.7	6.8	7.4	7.0	7.2	6.7	5.8	6.6
4	6.2	6.1	6.1	6.9	6.6	6.7	7.3	7.1	7.2	6.5	6.1	6.3
5	6.2	6.1	6.2	7.1	6.6	6.8	7.9	7.3	7.5	6.3	6.1	6.2
6	6.3	6.1	6.2	7.2	6.8	7.2	7.7	7.0	7.3	6.5	6.2	6.4
7	6.2	6.1	6.2	7.2	6.8	7.1	7.4	7.1	7.2	6.6	6.3	6.5
8	---	---	---	7.3	6.8	7.0	7.4	7.0	7.2	6.8	6.4	6.5
9	6.2	6.1	6.2	7.0	6.8	6.9	---	---	---	7.1	6.7	6.9
10	---	---	---	7.1	6.9	6.9	7.8	7.3	7.5	7.8	6.8	7.1
11	---	---	---	7.1	6.9	7.0	7.8	7.2	7.4	8.0	7.1	7.2
12	---	---	---	7.8	7.1	7.3	7.9	7.2	7.4	7.3	6.8	6.9
13	---	---	---	7.9	7.5	7.7	7.9	7.3	7.5	7.3	6.8	7.0
14	---	---	---	7.8	7.2	7.4	7.3	6.9	7.1	8.4	6.9	7.4
15	---	---	---	7.2	7.1	7.1	7.1	6.8	6.9	8.4	6.6	7.4
16	---	---	---	7.3	7.1	7.2	6.9	6.8	6.8	8.5	7.0	7.5
17	---	---	---	7.9	7.2	7.5	7.0	6.8	6.9	7.5	6.8	7.0
18	---	---	---	7.8	7.5	7.6	7.0	6.9	6.9	7.0	6.8	6.9
19	---	---	---	---	---	---	7.2	6.9	7.1	7.9	6.9	7.3
20	---	---	---	---	---	---	7.2	6.7	6.9	8.2	7.0	7.4
21	---	---	---	---	---	---	6.8	6.7	6.7	8.2	6.8	7.6
22	---	---	---	---	---	---	6.9	6.7	6.8	8.1	6.9	7.1
23	6.3	6.2	6.2	---	---	---	6.9	6.8	6.8	7.9	6.3	6.9
24	6.3	6.3	6.3	---	---	---	6.8	6.6	6.7	6.6	6.2	6.4
25	6.4	6.3	6.4	---	---	---	7.1	6.6	6.7	7.1	6.2	6.4
26	6.5	6.3	6.4	---	---	---	7.1	6.7	6.8	7.1	6.3	6.7
27	6.6	6.5	6.5	---	---	---	6.7	6.6	6.7	6.7	6.2	6.5
28	6.7	6.5	6.6	---	---	---	6.8	6.6	6.7	7.5	6.4	6.9
29	6.7	6.5	6.6	---	---	---	6.8	6.7	6.7	7.1	6.6	6.9
30	---	---	---	7.1	6.9	7.0	6.8	6.5	6.6	7.4	7.0	7.1
31	---	---	---	7.2	6.9	7.0	---	---	---	7.2	6.7	7.0
MONTH	---	---	---	---	---	---	---	---	---	8.5	5.8	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.8	6.4	6.6	6.8	6.8	6.8	6.5	6.2	6.3	7.1	6.6	6.8
2	6.7	6.3	6.6	6.9	6.7	6.8	6.5	6.2	6.4	6.8	6.6	6.7
3	7.8	6.5	6.8	8.3	6.7	7.0	6.6	6.3	6.4	6.7	6.5	6.6
4	7.6	6.8	7.0	8.1	6.7	7.3	6.6	6.4	6.5	6.6	6.5	6.5
5	6.9	6.7	6.8	7.8	6.7	6.9	---	---	---	6.8	6.5	6.6
6	6.9	6.7	6.7	---	---	---	---	---	---	6.7	6.6	6.7
7	7.7	6.7	7.0	7.1	7.0	7.0	---	---	---	6.7	6.5	6.7
8	7.2	6.8	7.0	7.1	6.9	7.0	---	---	---	6.7	6.3	6.5
9	7.6	6.8	7.0	7.6	6.9	7.0	---	---	---	6.7	6.2	6.4
10	7.4	6.9	7.1	8.0	7.0	7.4	---	---	---	6.4	5.9	6.3
11	8.9	6.7	7.2	8.3	6.9	7.5	---	---	---	6.4	6.1	6.3
12	7.7	6.7	7.1	7.1	6.8	6.9	---	---	---	6.6	6.2	6.3
13	8.0	6.6	7.0	7.0	6.8	6.9	---	---	---	6.6	6.0	6.3
14	8.9	6.8	7.3	7.1	6.8	6.9	---	---	---	6.5	6.1	6.3
15	8.7	6.9	7.5	7.8	6.8	7.0	---	---	---	6.7	6.1	6.3
16	8.1	6.8	7.4	7.3	6.9	7.0	7.6	7.1	7.4	6.8	6.7	6.7
17	7.7	7.0	7.4	7.1	6.9	7.0	---	---	---	6.8	6.7	6.8
18	7.9	7.0	7.3	7.1	6.9	7.1	6.8	6.5	6.6	6.9	6.8	6.8
19	7.8	6.9	7.3	8.5	6.9	7.3	7.1	6.6	6.8	6.8	6.6	6.7
20	7.5	7.2	7.4	8.3	7.0	7.4	7.1	6.8	6.9	6.6	6.4	6.5
21	7.2	6.9	7.1	7.1	6.9	7.0	7.1	6.9	7.0	6.4	6.3	6.3
22	7.2	6.7	6.9	7.2	6.9	7.0	7.0	6.7	6.9	6.5	6.3	6.4
23	7.3	6.9	7.1	7.3	7.0	7.1	6.7	6.5	6.6	6.6	6.4	6.5
24	7.2	6.8	7.1	7.2	6.9	7.1	6.9	6.4	6.6	6.6	6.3	6.4
25	7.6	7.0	7.1	7.2	7.0	7.1	6.9	6.7	6.8	6.4	6.3	6.4
26	7.3	6.4	6.9	7.1	6.9	7.0	7.0	6.8	6.9	6.5	6.3	6.4
27	7.6	6.4	7.0	7.1	6.8	7.0	6.9	6.6	6.8	6.7	6.3	6.5
28	7.8	6.5	7.1	7.1	6.7	7.0	6.8	6.6	6.7	6.8	6.6	6.7
29	7.4	6.8	7.1	7.0	6.5	6.7	6.8	6.6	6.7	6.8	6.8	6.8
30	7.2	6.8	6.9	6.6	6.3	6.5	8.1	6.7	7.0	6.8	6.7	6.8
31	---	---	---	6.4	6.2	6.3	7.1	6.7	6.8	---	---	---
MONTH	8.9	6.3	7.1	---	---	---	---	---	---	7.1	5.9	6.5

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	20.6	20.1	20.3	16.7	15.3	15.8	12.1	10.5	11.4	8.1	7.0	7.5
2	20.6	19.9	20.2	16.9	16.1	16.4	10.5	9.3	9.9	8.4	7.3	7.8
3	20.3	19.4	19.8	16.5	15.2	15.9	10.2	9.3	9.7	9.7	8.1	8.8
4	20.0	19.2	19.6	15.6	14.6	15.0	10.7	9.6	10.2	---	---	---
5	20.5	19.8	20.1	16.2	14.1	14.7	11.1	10.2	10.7	12.2	11.4	11.9
6	20.8	20.1	20.4	15.1	13.7	14.4	12.2	10.9	11.7	11.5	9.9	10.6
7	20.4	19.5	19.8	15.0	13.8	14.3	11.9	11.2	11.7	10.5	10.1	10.3
8	19.6	19.2	19.4	16.9	13.8	14.5	12.3	10.7	11.3	10.7	9.8	10.2
9	19.4	18.2	18.7	15.1	13.6	14.2	---	---	---	10.9	10.1	10.3
10	18.2	17.5	17.9	15.4	13.8	14.7	12.0	10.8	11.4	11.8	10.5	11.0
11	17.8	16.8	17.4	17.9	14.5	15.4	11.9	11.1	11.6	11.5	10.8	11.2
12	16.9	16.0	16.3	16.0	15.0	15.5	11.6	10.5	10.9	11.6	10.6	11.0
13	16.0	15.2	15.6	16.2	15.0	15.6	11.0	10.3	10.7	11.6	10.4	11.1
14	15.8	14.9	15.3	16.1	14.8	15.5	12.4	11.0	11.8	11.1	8.3	9.6
15	15.6	14.7	15.1	15.7	14.5	15.0	12.6	11.7	12.1	9.3	7.8	8.2
16	15.3	14.5	15.0	14.5	13.3	13.8	12.1	11.0	11.6	8.4	7.6	8.0
17	15.7	14.4	14.8	13.3	12.2	12.7	11.3	10.4	10.7	8.2	6.5	7.5
18	15.9	14.6	15.0	15.1	12.1	13.0	11.0	10.4	10.6	6.8	5.5	6.1
19	16.0	15.0	15.4	13.1	11.8	12.4	11.1	10.6	10.8	5.9	5.0	5.4
20	16.7	15.3	15.8	13.6	12.5	12.9	12.1	11.0	11.4	---	---	---
21	16.9	16.1	16.4	14.6	13.2	13.9	12.0	11.5	11.7	4.9	3.7	4.3
22	16.5	15.2	15.9	15.4	13.9	14.5	---	---	---	4.0	3.4	3.8
23	15.6	14.6	15.1	16.7	14.9	15.6	---	---	---	3.7	3.6	3.6
24	16.2	14.1	14.8	17.2	15.7	16.1	10.0	9.0	9.5	3.8	3.6	3.7
25	15.1	13.7	14.3	17.8	16.5	17.1	9.0	6.9	7.8	3.8	2.8	3.3
26	15.0	13.8	14.3	17.6	17.0	17.3	7.7	6.4	7.2	2.8	2.2	2.6
27	16.9	13.8	14.5	17.6	16.7	17.3	7.4	6.0	6.8	2.7	1.9	2.3
28	15.3	13.6	14.4	16.8	15.8	16.4	6.9	6.0	6.4	2.2	1.5	1.8
29	15.7	14.4	14.8	16.1	15.3	15.7	7.1	6.0	6.5	2.0	1.0	1.5
30	15.9	14.6	15.0	15.3	11.9	13.9	---	---	---	2.5	1.4	1.8
31	16.0	15.0	15.4	---	---	---	---	---	---	3.4	2.1	2.7
MONTH	20.8	13.6	16.7	17.9	11.8	15.0	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.9	2.5	3.1	15.1	13.3	14.2	17.4	16.1	16.8	18.5	16.4	17.2
2	4.0	2.9	3.3	14.6	13.6	14.3	17.2	16.4	16.9	19.1	17.0	18.0
3	4.3	3.0	3.5	15.0	13.7	14.4	18.6	16.8	17.7	21.1	18.5	19.7
4	4.9	3.6	4.1	14.6	13.3	13.9	18.7	17.8	18.2	21.5	19.5	20.4
5	5.4	4.2	4.6	13.8	12.7	13.3	17.9	16.5	16.9	24.5	20.1	21.3
6	5.7	4.4	4.9	14.0	12.8	13.5	17.8	14.6	16.4	24.9	20.9	22.2
7	6.1	4.8	5.4	15.1	13.2	13.8	18.5	15.4	17.6	25.6	21.0	22.4
8	---	---	---	17.8	13.6	15.0	19.1	17.1	18.1	23.9	21.3	22.6
9	6.2	5.8	6.0	16.4	14.3	15.4	---	---	---	24.6	22.5	23.5
10	7.6	6.0	6.7	19.6	15.8	16.9	18.7	15.0	15.9	24.9	23.1	24.1
11	---	---	---	18.2	16.6	17.4	18.4	15.9	17.1	26.5	23.6	24.7
12	---	---	---	17.9	16.7	17.5	19.6	17.8	18.5	25.4	23.6	24.6
13	---	---	---	16.8	15.3	16.1	18.3	16.3	16.9	27.1	24.6	25.6
14	---	---	---	16.7	14.3	15.3	16.9	15.9	16.3	27.0	24.9	25.9
15	---	---	---	17.6	15.5	16.2	17.5	16.8	17.1	26.0	24.7	25.2
16	---	---	---	17.5	16.2	16.9	18.6	16.9	17.6	25.2	23.7	24.4
17	---	---	---	17.9	17.1	17.5	19.0	17.6	18.2	24.1	23.4	23.8
18	---	---	---	17.2	14.9	15.5	18.7	17.7	18.3	24.6	23.0	23.9
19	---	---	---	15.1	14.4	14.7	17.9	16.4	17.0	25.1	23.3	24.3
20	---	---	---	15.1	13.8	14.3	18.9	16.2	17.4	26.4	24.4	25.4
21	---	---	---	14.4	13.6	14.0	19.0	17.5	18.3	28.4	25.2	26.2
22	---	---	---	14.3	12.8	13.5	18.8	17.9	18.3	26.5	25.3	26.0
23	12.5	9.8	10.8	13.5	12.4	13.0	18.7	17.4	18.1	26.3	24.9	25.4
24	13.4	10.6	11.6	15.5	12.3	13.8	19.5	18.0	18.6	26.7	24.8	25.7
25	13.3	11.1	12.1	14.9	13.8	14.3	18.7	17.3	18.1	27.2	25.6	26.2
26	15.4	11.9	13.1	16.0	14.4	15.2	18.1	16.5	17.2	29.4	25.8	27.1
27	14.7	13.1	13.9	16.6	15.7	16.1	17.5	16.3	17.0	27.6	26.4	26.9
28	15.3	14.0	14.5	---	---	---	16.8	15.4	16.0	27.4	26.3	26.6
29	14.9	13.6	14.3	---	---	---	16.8	15.0	15.9	26.5	23.0	25.0
30	---	---	---	16.5	16.0	16.2	17.6	15.7	16.7	23.3	21.3	22.1
31	---	---	---	17.4	15.8	16.5	---	---	---	23.6	20.4	21.6
MONTH	---	---	---	---	---	---	---	---	---	29.4	16.4	23.8

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	27.1	21.6	23.7	29.2	27.1	28.1	28.0	26.5	27.1	26.4	25.5	26.0
2	24.8	22.4	23.7	30.5	26.9	28.3	28.5	26.8	27.7	26.4	25.5	25.9
3	28.8	23.8	25.3	29.1	28.2	28.6	28.1	26.9	27.5	26.7	25.9	26.3
4	25.7	24.9	25.2	28.7	27.3	28.0	27.7	26.9	27.2	26.5	26.1	26.3
5	25.0	24.1	24.5	31.0	27.4	28.5	29.2	26.4	27.2	26.3	25.3	25.9
6	25.4	23.9	24.5	---	---	---	28.8	26.9	27.5	25.4	23.8	24.5
7	24.6	23.0	23.8	29.4	27.3	28.2	28.6	27.2	27.8	23.8	22.8	23.4
8	24.8	23.0	23.9	30.4	26.8	28.2	29.0	27.4	28.0	24.5	22.5	23.2
9	25.9	24.0	24.9	28.3	27.2	27.7	29.1	27.9	28.3	24.1	22.8	23.3
10	26.8	24.4	25.6	28.8	26.5	27.5	29.6	27.6	28.5	25.0	22.7	23.8
11	27.5	25.2	26.3	29.5	27.6	28.5	---	---	---	25.6	23.4	24.6
12	28.5	26.1	27.0	29.0	27.7	28.3	---	---	---	26.6	24.0	25.0
13	28.7	26.8	27.6	27.9	26.9	27.4	---	---	---	28.1	24.4	25.1
14	29.3	27.5	28.2	28.2	26.9	27.5	---	---	---	26.2	24.7	25.5
15	29.1	27.3	28.3	28.8	27.7	28.2	---	---	---	26.4	25.5	25.9
16	29.6	28.1	28.8	29.6	27.6	28.4	28.3	25.3	26.6	25.5	24.1	24.7
17	29.6	28.2	28.9	30.8	27.8	28.9	---	---	---	24.2	22.9	23.4
18	30.1	28.5	29.1	29.6	28.5	29.0	27.6	26.3	26.8	23.5	22.7	22.9
19	30.4	28.6	29.1	30.2	28.9	29.4	27.8	25.8	26.7	23.8	22.5	23.1
20	28.9	28.1	28.5	30.1	28.2	29.2	27.2	25.2	26.4	23.8	22.6	23.1
21	30.2	27.6	28.4	29.5	27.3	28.2	27.4	24.8	26.0	24.0	22.7	23.4
22	29.7	28.1	28.9	28.8	27.0	27.6	27.1	24.6	26.3	24.2	23.6	23.9
23	32.1	28.0	29.2	28.8	27.6	28.1	27.2	25.5	26.2	23.8	23.5	23.6
24	29.4	28.0	28.7	28.0	27.0	27.5	28.2	26.3	27.2	24.9	23.4	23.7
25	29.8	28.3	29.0	27.0	25.8	26.2	27.9	26.6	27.1	25.3	23.9	24.6
26	29.5	28.3	28.9	26.9	25.6	26.1	27.2	25.5	26.4	24.9	22.7	23.8
27	29.8	28.2	28.9	26.9	24.5	25.3	27.2	26.2	26.8	22.8	21.5	22.1
28	30.0	28.1	29.1	27.0	24.7	25.5	27.3	26.3	26.8	22.5	21.6	22.1
29	29.6	28.2	28.8	26.9	25.6	26.3	27.3	26.0	26.6	22.2	20.4	21.1
30	29.3	27.7	28.4	27.7	26.3	26.9	27.6	26.0	26.6	21.7	20.0	20.6
31	---	---	---	27.4	26.5	26.8	26.7	26.2	26.5	---	---	---
MONTH	32.1	21.6	27.2	---	---	---	---	---	---	28.1	20.0	24.0

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	20.6	20.1	20.3	16.4	15.3	15.7	12.1	10.5	11.4	8.0	7.3	7.6
2	20.6	19.8	20.2	16.7	16.0	16.3	10.6	9.2	9.9	8.3	7.2	7.7
3	20.2	19.2	19.7	16.5	15.1	15.9	10.1	9.3	9.6	9.7	8.1	8.7
4	19.9	19.1	19.5	15.3	14.5	14.9	10.6	9.6	10.2	---	---	---
5	20.5	19.8	20.0	14.9	14.0	14.3	10.9	10.3	10.4	12.2	11.4	11.9
6	20.8	20.1	20.4	14.7	13.7	14.1	12.2	10.9	11.5	11.5	9.9	10.5
7	20.4	19.4	19.8	14.9	13.8	14.3	11.9	11.3	11.7	10.8	10.1	10.4
8	19.6	19.2	19.4	14.7	13.8	14.2	11.6	10.3	10.8	10.5	9.8	10.1
9	19.4	18.2	18.7	14.6	13.6	14.0	---	---	---	10.5	10.1	10.2
10	18.2	17.5	17.9	15.4	13.9	14.6	12.0	10.5	11.3	11.7	10.4	11.0
11	17.8	16.9	17.4	16.2	14.5	15.0	11.9	11.2	11.6	11.5	10.8	11.2
12	16.9	16.0	16.3	16.0	15.0	15.4	11.7	10.2	10.7	11.3	10.5	11.0
13	16.0	15.1	15.5	16.0	15.0	15.4	11.0	10.3	10.6	11.7	10.3	11.0
14	15.8	14.9	15.3	16.0	14.8	15.4	12.4	11.0	11.7	11.2	8.5	9.7
15	15.5	14.7	15.1	15.7	14.6	15.0	12.4	11.7	12.0	8.7	7.6	8.1
16	15.3	14.5	14.9	14.6	13.2	13.8	12.1	11.0	11.6	8.4	7.6	8.1
17	15.2	14.4	14.8	13.3	12.1	12.6	11.0	10.4	10.7	8.3	6.6	7.5
18	15.4	14.6	15.0	12.5	12.0	12.2	10.7	10.4	10.6	6.8	5.5	6.1
19	15.7	14.9	15.3	12.5	11.8	12.0	11.8	10.6	10.9	5.9	5.1	5.6
20	16.3	15.3	15.7	12.9	12.1	12.5	11.9	11.1	11.5	5.7	5.0	5.2
21	16.7	16.0	16.3	14.5	12.8	13.5	12.1	11.5	11.7	5.0	3.8	4.4
22	16.5	15.2	15.9	15.2	13.8	14.4	---	---	---	4.2	3.5	3.8
23	15.3	14.5	14.9	16.3	14.9	15.5	---	---	---	3.8	3.6	3.7
24	14.9	14.0	14.4	16.2	15.4	15.7	12.1	10.2	11.6	3.8	3.7	3.8
25	14.7	13.7	14.1	17.3	15.7	16.5	10.5	7.3	8.3	3.8	3.0	3.4
26	14.9	13.8	14.3	17.6	16.8	17.2	8.5	6.7	7.9	3.0	2.3	2.7
27	14.7	13.8	14.2	17.6	16.7	17.3	7.8	6.2	7.1	2.6	2.0	2.4
28	15.3	13.6	14.3	16.7	15.9	16.3	7.7	6.1	7.0	2.3	1.6	1.9
29	15.2	14.4	14.8	16.2	15.3	15.7	7.6	6.6	7.1	2.2	1.1	1.7
30	15.4	14.6	15.0	15.3	11.9	13.9	---	---	---	2.5	1.5	1.9
31	15.7	14.9	15.3	---	---	---	---	---	---	3.5	2.2	2.7
MONTH	20.8	13.6	16.6	17.6	11.8	14.8	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	3.9	2.7	3.2	15.1	13.3	14.1	17.4	16.0	16.7	18.6	16.3	17.0
2	4.1	2.9	3.4	14.6	13.7	14.3	17.2	16.2	16.8	18.8	17.0	17.6
3	4.3	3.1	3.6	14.8	13.7	14.3	18.7	16.8	17.6	21.1	17.8	19.3
4	4.7	3.7	4.1	14.6	13.3	13.9	18.7	17.8	18.2	20.9	19.3	19.8
5	5.4	4.2	4.7	13.6	12.6	13.2	17.9	16.4	16.8	20.6	19.9	20.2
6	5.6	4.5	4.9	13.6	12.5	12.9	17.8	15.7	16.6	21.3	20.5	20.9
7	6.1	4.8	5.4	14.2	12.6	13.2	18.5	16.7	17.3	22.0	20.8	21.2
8	---	---	---	14.6	13.6	14.1	19.1	17.1	18.0	23.6	21.3	22.1
9	6.2	5.8	6.1	16.4	14.1	15.2	18.2	15.3	16.7	24.5	22.5	23.4
10	7.6	6.0	6.6	16.2	15.5	15.8	16.4	14.6	15.4	24.7	22.9	23.9
11	---	---	---	18.2	16.2	17.2	18.4	15.8	17.0	25.6	23.5	24.1
12	---	---	---	17.9	16.7	17.5	18.7	17.7	18.2	25.2	23.4	23.9
13	---	---	---	16.8	15.3	16.0	18.3	16.3	16.9	25.6	24.6	24.9
14	---	---	---	16.1	14.2	15.0	16.8	16.0	16.3	26.6	24.8	25.6
15	---	---	---	16.3	15.5	15.7	17.5	16.8	17.0	26.0	24.4	25.0
16	---	---	---	17.5	15.8	16.7	18.1	16.8	17.2	24.9	23.8	24.2
17	---	---	---	17.9	17.1	17.5	18.8	17.3	17.9	24.0	23.2	23.6
18	---	---	---	17.3	14.9	15.5	18.7	17.8	18.3	24.4	23.0	23.6
19	---	---	---	15.1	14.1	14.7	17.9	16.4	17.0	25.0	23.3	24.0
20	---	---	---	15.0	13.8	14.3	18.3	16.2	16.8	26.0	24.1	24.8
21	---	---	---	14.4	13.6	14.0	18.9	17.4	18.2	26.2	25.1	25.6
22	---	---	---	14.3	12.8	13.5	18.7	17.9	18.3	26.3	25.3	25.8
23	11.3	9.9	10.4	13.5	12.4	13.0	18.5	17.2	17.7	25.8	24.8	25.2
24	11.8	10.6	11.2	15.1	12.3	13.5	18.8	18.0	18.4	26.2	24.6	25.2
25	12.8	11.1	11.9	14.9	13.2	14.0	18.7	17.3	18.2	26.7	25.4	25.9
26	13.5	11.9	12.6	16.0	14.4	15.1	17.9	16.3	17.0	26.2	25.3	25.8
27	14.7	13.1	13.8	16.5	15.5	16.1	17.5	16.3	16.8	27.2	25.2	25.9
28	15.2	13.9	14.4	17.2	16.0	16.4	16.6	15.5	16.0	27.0	26.1	26.5
29	14.9	13.6	14.2	16.6	15.5	16.1	16.7	15.0	15.7	26.3	23.1	25.1
30	---	---	---	16.5	16.0	16.2	17.5	15.6	16.3	23.5	21.3	22.2
31	---	---	---	17.2	15.7	16.4	---	---	---	21.3	20.5	21.0
MONTH	---	---	---	18.2	12.3	15.0	19.1	14.6	17.2	27.2	16.3	23.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	21.1	21.3	27.8	27.4	27.5	27.6	26.3	26.8	26.6	25.6	26.2
2	22.3	21.3	21.5	28.2	27.3	27.6	27.8	26.8	27.2	26.1	25.4	25.7
3	25.0	21.5	22.4	28.9	27.5	28.1	28.1	26.9	27.4	26.6	25.8	26.1
4	24.8	23.4	24.1	28.7	27.2	27.9	27.7	27.0	27.2	26.5	26.0	26.2
5	24.1	23.5	23.7	28.3	27.4	27.8	---	---	---	26.7	25.9	26.3
6	24.3	23.6	23.9	---	---	---	---	---	---	26.7	25.4	26.3
7	24.0	23.3	23.5	27.3	27.1	27.1	---	---	---	26.2	24.6	25.6
8	24.3	23.3	23.5	27.5	27.0	27.2	---	---	---	25.5	22.9	24.1
9	25.0	23.8	24.1	28.1	27.3	27.6	---	---	---	23.3	22.8	23.0
10	25.6	24.3	24.7	28.0	26.6	27.2	---	---	---	24.3	22.7	23.4
11	27.3	24.9	25.6	28.3	27.3	27.8	---	---	---	24.5	23.4	24.0
12	26.7	25.8	26.3	27.5	27.0	27.3	---	---	---	24.8	23.4	24.0
13	27.8	24.9	26.2	27.5	27.2	27.3	---	---	---	24.8	24.1	24.4
14	28.6	25.8	27.1	28.0	27.1	27.4	---	---	---	25.7	24.1	24.6
15	29.1	26.9	27.9	28.2	27.5	27.8	---	---	---	26.1	25.4	25.7
16	29.5	28.2	28.7	28.2	27.2	27.6	27.0	26.8	26.9	25.7	24.5	25.0
17	29.2	28.2	28.7	27.8	27.2	27.5	---	---	---	25.0	24.8	24.9
18	29.6	28.3	28.9	28.6	27.4	27.5	27.1	26.4	26.8	25.0	23.5	24.6
19	29.2	28.5	28.8	29.7	27.6	28.4	28.0	26.5	27.1	24.5	22.6	23.4
20	28.6	27.7	28.2	29.5	28.5	28.9	27.1	26.9	27.0	23.3	22.4	22.8
21	28.7	27.5	27.8	28.7	28.3	28.4	27.0	26.9	27.0	23.5	22.7	23.0
22	29.5	28.2	28.6	28.4	28.1	28.3	27.2	27.0	27.0	24.1	23.0	23.7
23	29.0	27.4	28.1	28.3	28.0	28.1	27.1	26.3	26.9	23.8	23.5	23.6
24	28.8	27.0	27.6	28.2	27.7	28.0	27.0	26.6	26.9	23.9	23.3	23.5
25	29.8	28.0	28.7	27.8	27.3	27.6	27.1	26.7	26.9	25.1	23.6	24.1
26	29.8	28.7	29.1	27.5	26.1	26.9	26.9	26.6	26.7	24.9	22.7	23.8
27	29.8	28.4	29.0	27.0	26.7	26.9	26.9	26.7	26.8	23.2	21.4	22.2
28	29.7	28.5	29.1	27.0	25.9	26.7	27.0	26.7	26.8	23.7	23.0	23.4
29	29.2	28.4	28.7	26.7	25.7	26.3	26.9	26.6	26.7	23.7	23.3	23.5
30	28.5	27.7	28.1	27.0	26.2	26.5	26.9	26.1	26.5	23.5	22.1	23.0
31	---	---	---	27.2	26.4	26.7	26.9	26.2	26.6	---	---	---
MONTH	29.8	21.1	26.5	---	---	---	---	---	---	26.7	21.4	24.3

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	3.2	2.9	3.0	---	---	---	8.9	8.1	8.5	9.5	9.1	9.3
2	3.8	3.1	3.5	---	---	---	9.2	8.3	8.8	9.6	9.2	9.3
3	4.5	3.5	4.0	---	---	---	8.3	7.6	7.9	9.4	9.1	9.3
4	4.3	3.9	4.0	---	---	---	7.9	7.5	7.6	---	---	---
5	6.3	3.9	5.0	---	---	---	7.9	7.4	7.6	9.5	8.9	9.2
6	7.0	4.7	5.9	---	---	---	8.3	7.6	7.8	9.4	8.9	9.1
7	4.7	4.0	4.2	---	---	---	8.6	8.1	8.3	9.1	8.7	8.9
8	5.1	4.1	4.4	---	---	---	8.6	8.0	8.3	8.8	8.4	8.6
9	5.4	4.8	5.1	---	---	---	---	---	---	8.6	8.2	8.4
10	5.1	4.9	5.0	5.9	5.5	5.7	8.3	7.7	8.0	9.1	8.4	8.7
11	6.0	5.1	5.5	6.1	5.2	5.6	8.6	8.0	8.3	9.1	8.7	8.9
12	6.6	5.6	6.1	6.5	5.6	6.1	8.2	7.9	8.1	9.4	8.7	9.0
13	6.4	6.1	6.3	5.7	5.0	5.2	8.2	7.6	7.9	9.7	8.6	8.9
14	6.8	6.4	6.6	5.5	5.0	5.2	8.4	7.9	8.2	10.3	9.4	9.9
15	6.9	6.8	6.8	6.6	5.3	5.9	8.3	8.0	8.2	10.1	9.2	9.7
16	7.2	6.9	7.1	6.7	5.5	6.2	8.8	8.0	8.4	10.1	9.2	9.7
17	7.4	7.1	7.2	6.8	5.8	6.4	8.7	8.0	8.4	10.5	9.9	10.2
18	7.4	7.0	7.2	5.9	5.4	5.7	8.3	7.8	8.1	10.5	10.0	10.2
19	7.3	7.1	7.2	5.9	5.4	5.6	8.5	7.8	8.1	10.7	10.2	10.4
20	7.2	6.9	7.1	6.3	5.7	5.9	8.7	8.2	8.5	---	---	---
21	8.4	6.9	7.5	6.5	6.0	6.3	8.5	8.2	8.3	11.9	11.4	11.7
22	7.6	7.1	7.3	6.7	6.2	6.4	---	---	---	11.7	11.1	11.3
23	7.2	6.8	6.9	6.7	6.2	6.4	---	---	---	11.6	11.1	11.3
24	7.1	6.7	6.9	6.6	5.9	6.2	8.5	7.6	8.0	12.1	11.3	11.6
25	7.5	7.0	7.3	6.4	6.0	6.2	9.6	8.4	9.0	12.3	11.6	12.0
26	8.0	7.2	7.7	6.5	5.6	6.2	9.2	8.5	8.9	12.2	11.6	11.9
27	---	---	---	7.0	6.3	6.6	9.6	8.8	9.2	12.1	11.8	12.0
28	---	---	---	6.8	6.2	6.6	9.5	9.1	9.3	12.2	11.9	12.1
29	---	---	---	6.6	6.1	6.3	9.8	9.1	9.4	---	---	---
30	---	---	---	8.2	6.4	7.3	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	8.8	7.7	8.1	10.2	8.8	9.5	8.6	7.8	8.1
2	---	---	---	8.5	7.8	8.1	10.4	9.1	9.7	8.8	7.9	8.3
3	---	---	---	8.5	7.9	8.2	10.2	8.9	9.6	9.6	8.1	8.7
4	---	---	---	8.1	7.5	7.8	9.6	8.7	9.2	9.6	8.0	8.7
5	---	---	---	8.0	7.4	7.8	10.2	8.6	9.4	10.1	7.6	8.5
6	---	---	---	8.2	7.4	7.8	11.5	8.7	9.6	9.3	7.2	8.1
7	---	---	---	8.1	7.5	7.9	10.3	9.1	9.5	10.2	7.1	7.8
8	---	---	---	8.6	7.8	8.1	9.7	8.6	9.2	7.7	6.7	7.1
9	---	---	---	8.2	7.8	8.0	---	---	---	9.0	6.6	7.7
10	---	---	---	8.4	7.7	8.0	11.1	9.2	10.0	9.4	7.7	8.3
11	---	---	---	8.0	7.6	7.8	10.3	8.8	9.6	10.4	8.1	9.2
12	---	---	---	8.2	7.6	8.0	10.1	8.4	9.1	9.7	8.1	8.8
13	---	---	---	8.6	7.9	8.3	9.9	9.0	9.4	10.1	7.9	8.9
14	---	---	---	8.5	7.9	8.2	9.1	8.0	8.5	10.9	7.9	9.2
15	---	---	---	8.2	7.3	7.7	8.3	7.8	8.1	10.4	8.1	9.1
16	---	---	---	8.1	7.2	7.8	7.9	7.4	7.6	10.5	8.5	9.5
17	---	---	---	8.3	7.8	8.1	7.6	6.8	7.1	9.6	6.8	7.8
18	---	---	---	8.7	7.9	8.3	7.9	6.7	7.2	8.4	6.9	7.6
19	---	---	---	8.4	7.7	8.1	8.4	7.1	8.0	9.6	7.3	8.1
20	---	---	---	8.2	7.4	7.7	8.4	7.4	8.0	9.6	7.9	8.8
21	---	---	---	8.2	7.3	7.6	7.7	7.2	7.5	9.9	8.0	8.9
22	---	---	---	8.6	7.6	8.1	8.0	7.3	7.7	8.8	7.0	7.8
23	8.7	8.1	8.4	9.1	8.2	8.6	8.0	7.5	7.8	8.3	6.5	7.3
24	8.7	8.2	8.5	8.4	7.8	8.0	7.8	7.2	7.5	7.9	6.3	7.0
25	8.9	8.2	8.5	8.2	7.7	7.9	8.1	7.5	7.7	7.9	6.2	6.9
26	9.1	8.2	8.5	8.2	7.9	8.0	8.3	7.6	8.0	10.1	6.3	8.0
27	8.9	8.1	8.4	8.4	7.9	8.1	8.1	7.5	7.8	8.6	6.8	7.6
28	8.7	8.0	8.3	---	---	---	8.1	7.4	7.7	8.6	5.9	6.7
29	8.5	7.7	8.1	---	---	---	8.4	7.7	8.0	6.4	5.7	6.1
30	---	---	---	8.4	7.9	8.1	8.2	7.6	7.9	8.0	5.7	6.7
31	---	---	---	9.3	7.9	8.6	---	---	---	8.7	6.8	7.7
MONTH	---	---	---	---	---	---	---	---	---	10.9	5.7	8.0

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	8.7	6.6	7.4	10.6	5.8	8.2	6.0	4.9	5.4	6.0	4.1	4.9
2	7.8	5.6	6.9	10.8	6.3	8.4	6.4	5.2	5.6	4.6	3.4	4.0
3	11.7	6.9	8.4	11.1	7.5	9.4	6.1	5.2	5.5	4.4	3.5	4.0
4	11.0	7.7	8.8	10.2	7.4	8.8	6.0	5.3	5.7	4.2	3.5	3.7
5	8.2	6.7	7.4	10.9	6.7	7.9	6.2	5.0	5.4	4.8	2.4	3.8
6	8.9	6.0	7.0	---	---	---	5.8	3.8	5.0	5.3	4.2	4.9
7	10.2	6.1	7.6	9.7	5.5	8.0	6.0	4.6	5.3	4.4	3.3	3.8
8	9.6	7.7	8.5	11.1	4.7	8.6	5.7	4.6	5.1	4.2	3.1	3.4
9	13.0	6.4	9.6	10.6	7.0	8.8	5.5	4.3	4.9	3.8	3.1	3.4
10	13.3	8.6	10.9	10.1	7.3	8.6	5.3	4.1	4.8	4.7	3.4	3.9
11	12.6	8.1	10.4	11.8	8.2	9.7	---	---	---	5.0	4.2	4.7
12	11.7	8.9	10.2	12.0	7.3	9.2	---	---	---	5.2	4.1	4.7
13	11.1	8.6	9.6	12.8	4.7	8.9	---	---	---	4.8	3.9	4.3
14	10.8	8.2	9.2	11.2	4.8	8.9	---	---	---	5.3	3.9	4.6
15	10.0	7.5	8.5	10.9	7.0	8.8	---	---	---	5.6	4.8	5.2
16	8.2	6.0	7.5	10.6	6.7	8.8	6.0	3.4	4.5	6.0	4.8	5.6
17	8.7	6.0	6.9	9.3	1.7	6.9	---	---	---	6.4	5.0	5.8
18	8.9	6.7	7.4	7.5	3.1	5.5	5.2	4.0	4.7	6.6	5.0	6.1
19	8.0	6.4	7.0	9.0	3.4	6.9	6.4	4.2	5.2	6.2	4.6	5.4
20	8.9	6.6	7.6	10.7	5.4	8.2	6.2	1.0	4.8	5.7	4.7	5.1
21	9.6	7.0	8.1	9.5	.9	7.3	6.6	.1	3.0	5.4	4.6	5.0
22	9.4	7.1	8.1	8.9	1.9	6.0	4.6	.1	1.9	5.8	5.1	5.4
23	11.2	6.3	8.5	9.5	1.0	6.5	6.5	4.4	5.5	5.9	5.1	5.5
24	11.3	8.1	9.6	9.2	3.3	6.5	7.4	5.6	6.6	5.5	4.8	5.2
25	11.8	8.4	10.1	8.7	4.8	6.9	7.8	3.8	6.0	5.0	4.0	4.6
26	10.4	8.0	9.2	8.4	3.0	5.7	6.2	1.0	4.1	5.8	4.5	5.1
27	---	---	---	6.6	3.2	4.9	6.9	2.5	5.7	5.8	4.8	5.4
28	---	---	---	5.1	3.5	4.1	6.8	4.3	5.9	5.1	4.7	4.9
29	7.6	6.4	6.9	4.7	3.7	4.3	6.4	3.0	5.4	6.4	4.7	5.3
30	10.0	6.3	7.5	5.5	4.1	4.9	9.6	4.8	6.5	6.4	4.9	5.3
31	---	---	---	5.5	4.6	5.0	6.0	3.9	5.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	6.6	2.4	4.8

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	2.5	1.9	2.2	---	---	---	8.8	7.9	8.3	9.8	7.3	8.1
2	2.6	1.1	2.1	---	---	---	9.0	8.2	8.7	9.9	7.1	8.4
3	3.6	1.4	2.4	---	---	---	8.2	7.4	7.8	10.1	9.4	9.8
4	3.6	2.8	3.1	---	---	---	7.6	7.3	7.4	---	---	---
5	5.1	2.8	3.8	---	---	---	7.5	7.1	7.3	9.9	9.5	9.7
6	7.0	4.7	5.8	---	---	---	7.9	7.2	7.5	9.9	9.4	9.7
7	4.7	3.9	4.2	---	---	---	8.2	7.6	7.9	9.7	9.2	9.5
8	5.1	4.0	4.4	---	---	---	8.2	7.8	8.0	9.4	8.7	9.1
9	5.4	4.7	5.0	---	---	---	---	---	---	8.9	8.6	8.7
10	4.8	4.6	4.7	6.5	6.1	6.3	8.0	7.1	7.6	9.4	8.8	9.1
11	5.7	4.7	5.2	6.6	5.8	6.2	8.2	7.7	8.0	9.5	9.0	9.3
12	6.2	5.2	5.6	7.0	6.1	6.7	8.1	7.5	7.9	9.8	8.9	9.3
13	5.9	5.5	5.7	6.2	5.3	5.6	7.9	7.5	7.7	9.6	8.7	9.0
14	6.2	5.8	6.0	5.8	5.4	5.5	8.2	7.7	7.9	10.2	9.4	9.8
15	6.3	6.0	6.2	6.9	5.6	6.3	8.1	7.6	7.9	10.2	9.3	9.8
16	6.5	6.2	6.3	7.1	5.9	6.6	8.5	7.8	8.1	10.2	9.3	9.8
17	6.5	6.3	6.4	7.2	6.2	6.8	8.4	7.6	8.1	10.6	10.0	10.4
18	6.5	6.1	6.3	6.2	5.7	5.9	7.8	7.2	7.5	10.6	10.1	10.3
19	6.5	6.1	6.3	6.1	5.7	5.9	8.1	4.4	7.1	10.5	10.1	10.4
20	6.2	5.8	6.0	6.2	5.8	6.0	8.2	3.6	5.4	11.5	10.2	10.7
21	7.1	5.8	6.3	6.9	5.8	6.3	7.2	2.7	4.9	11.8	11.3	11.7
22	6.5	5.6	6.0	6.8	6.4	6.6	---	---	---	11.8	11.0	11.4
23	5.9	5.3	5.5	6.8	6.2	6.5	---	---	---	11.3	10.9	11.1
24	5.8	5.2	5.4	6.5	5.9	6.2	7.1	3.8	4.6	11.8	11.2	11.4
25	6.1	5.5	5.8	6.3	5.5	5.9	9.5	6.2	8.7	12.1	11.6	11.9
26	6.7	5.5	6.1	6.5	5.7	6.1	9.3	8.1	8.8	11.8	11.6	11.7
27	6.3	5.7	6.0	6.9	6.0	6.4	9.5	8.7	9.1	11.8	11.6	11.7
28	---	---	---	6.7	6.2	6.4	9.6	8.5	9.1	12.0	11.7	11.8
29	---	---	---	6.3	5.9	6.1	9.6	8.5	9.1	---	---	---
30	---	---	---	7.9	6.1	7.0	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	---	---	---	8.6	7.5	8.0	9.8	8.1	9.0	8.0	6.9	7.3
2	---	---	---	8.2	7.6	7.9	10.1	8.5	9.2	7.7	7.1	7.3
3	---	---	---	8.2	7.6	7.9	10.1	8.7	9.4	9.0	7.2	7.9
4	---	---	---	7.9	7.3	7.7	9.3	8.6	8.9	8.6	7.2	7.6
5	---	---	---	7.8	6.7	7.5	9.9	8.5	9.1	7.6	6.7	7.2
6	---	---	---	7.6	3.3	4.6	9.7	8.2	9.0	7.3	6.5	6.9
7	---	---	---	7.9	3.0	5.0	9.5	8.3	8.8	7.0	6.0	6.5
8	---	---	---	7.8	7.5	7.7	9.2	7.9	8.5	7.2	6.1	6.5
9	---	---	---	8.0	7.2	7.6	9.2	8.0	8.7	7.5	6.2	6.8
10	---	---	---	7.8	7.2	7.6	9.4	8.5	8.8	8.1	6.2	7.0
11	---	---	---	7.7	7.0	7.4	9.3	8.1	8.8	8.7	6.9	7.5
12	---	---	---	8.0	7.5	7.8	9.4	7.8	8.4	7.8	6.2	6.9
13	---	---	---	8.4	7.8	8.1	9.5	8.4	8.8	7.9	6.4	7.1
14	---	---	---	8.4	7.8	8.0	8.5	6.9	7.7	9.2	6.7	7.7
15	---	---	---	7.8	6.7	7.2	7.4	6.8	7.1	9.2	5.6	7.5
16	---	---	---	7.8	6.5	7.3	7.3	6.8	7.0	9.3	6.7	7.9
17	---	---	---	8.2	7.5	7.9	7.0	6.2	6.6	8.6	5.9	7.0
18	---	---	---	8.4	7.8	8.1	7.4	6.3	6.7	7.8	6.3	7.0
19	---	---	---	8.2	7.6	7.9	8.0	6.7	7.6	8.6	6.7	7.5
20	---	---	---	8.0	7.2	7.5	8.0	6.6	7.3	8.2	6.7	7.3
21	---	---	---	7.9	7.0	7.4	7.2	6.7	7.0	9.0	6.4	7.8
22	---	---	---	8.4	7.4	7.8	7.5	6.9	7.2	7.7	6.2	6.9
23	8.4	8.0	8.1	8.9	8.0	8.5	7.5	7.0	7.2	7.6	5.9	6.6
24	8.4	8.1	8.3	8.2	7.6	7.8	7.2	6.7	6.9	7.4	6.0	6.4
25	8.6	8.0	8.3	8.0	7.4	7.7	7.6	7.0	7.3	7.6	5.7	6.5
26	8.6	8.0	8.2	7.9	7.7	7.8	7.7	7.1	7.4	7.2	3.8	5.8
27	8.6	7.8	8.2	8.2	7.7	7.9	7.6	6.8	7.1	7.6	1.1	4.4
28	8.6	7.8	8.0	8.2	7.4	7.8	7.5	6.8	7.0	8.0	5.5	6.5
29	8.2	7.5	7.8	8.2	7.6	8.0	7.7	7.0	7.2	6.3	5.4	5.9
30	---	---	---	8.0	7.3	7.7	7.4	6.6	7.0	7.6	5.1	6.4
31	---	---	---	8.9	7.4	8.2	---	---	---	7.5	6.1	6.8
MONTH	---	---	---	8.9	3.0	7.6	10.1	6.2	7.9	9.3	1.1	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.4	4.3	5.4	.4	.2	.3	5.3	4.1	4.8	5.7	1.8	3.4
2	5.6	2.3	4.0	2.7	.3	.5	4.7	3.8	4.3	4.9	3.5	4.0
3	8.3	2.3	4.3	9.7	.3	2.7	5.3	3.7	4.5	4.6	3.7	4.1
4	8.0	4.2	5.5	8.4	2.6	5.9	5.1	3.1	4.4	4.6	3.8	4.2
5	4.8	1.8	3.0	6.7	.6	3.4	---	---	---	4.5	.8	2.8
6	3.7	1.1	2.2	---	---	---	---	---	---	3.3	.8	1.1
7	6.3	1.6	3.7	.1	.0	.1	---	---	---	1.5	.8	.8
8	5.5	1.6	3.5	.2	.0	.1	---	---	---	3.7	.8	2.2
9	8.6	2.0	4.3	7.4	.1	1.9	---	---	---	3.9	2.8	3.5
10	8.3	4.8	6.4	8.1	2.5	6.0	---	---	---	4.2	2.9	3.8
11	11.3	4.3	6.5	8.3	.9	5.3	---	---	---	4.6	3.3	4.2
12	8.5	3.9	6.1	2.0	.1	.5	---	---	---	4.8	3.3	4.0
13	9.1	2.3	5.8	.4	.0	.1	---	---	---	4.4	2.8	3.7
14	10.1	3.6	6.8	3.2	.0	.5	---	---	---	4.5	2.4	3.6
15	9.9	4.5	7.2	7.8	.0	2.0	---	---	---	5.2	2.6	4.5
16	8.6	5.8	6.9	5.7	.0	1.1	.1	.0	.1	5.4	.2	1.9
17	7.8	5.8	6.7	1.4	.0	.1	---	---	---	1.2	.2	.3
18	8.4	6.0	6.8	3.0	.0	.1	4.7	.1	.7	3.6	.2	.7
19	---	---	---	8.8	.0	2.3	5.5	.1	1.2	5.6	.4	4.0
20	---	---	---	7.1	1.3	4.1	.1	.1	.1	5.7	4.4	4.9
21	---	---	---	1.4	.1	.3	.1	.1	.1	5.2	4.1	4.8
22	7.6	4.1	5.9	.3	.0	.1	.1	.1	.1	5.8	3.9	5.3
23	7.1	1.7	4.1	1.2	.0	.2	3.7	.1	1.0	6.2	5.3	5.8
24	5.1	.9	1.9	3.7	.1	1.2	4.8	.6	2.3	5.8	4.8	5.4
25	8.3	2.0	4.9	2.2	.1	.4	3.7	.3	1.5	5.1	3.9	4.4
26	8.1	6.2	7.0	2.8	.1	.9	.4	.3	.3	6.1	4.7	5.3
27	7.9	6.2	6.9	1.4	.0	.2	4.5	.3	1.1	6.0	1.4	5.1
28	8.5	5.4	6.8	1.3	.0	.1	3.9	.4	1.5	1.9	.5	.9
29	7.5	3.1	6.2	3.8	.0	1.2	3.4	.4	1.6	1.1	.6	.8
30	4.2	.3	2.0	5.3	3.6	4.2	8.6	.4	3.8	1.4	.7	1.0
31	---	---	---	5.6	4.7	5.1	5.4	2.2	3.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	6.2	.2	3.3

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	36	32	34	---	---	---	82	75	78	81	77	79
2	42	34	39	---	---	---	82	72	78	81	78	80
3	49	39	43	---	---	---	72	68	70	83	79	81
4	47	42	44	---	---	---	71	67	68	---	---	---
5	69	42	55	---	---	---	71	67	69	88	84	86
6	78	51	65	---	---	---	78	69	73	86	82	84
7	51	44	46	---	---	---	80	75	77	83	80	81
8	55	44	48	---	---	---	80	74	76	80	76	79
9	58	51	54	---	---	---	---	---	---	78	75	77
10	54	51	52	59	54	56	77	70	73	84	76	80
11	62	53	57	61	54	56	79	74	76	84	80	82
12	67	58	62	65	56	61	75	71	73	86	80	83
13	65	62	63	57	50	53	75	69	72	90	78	83
14	68	65	66	55	49	52	80	73	77	90	87	89
15	70	67	68	65	53	58	79	76	78	88	81	85
16	72	69	71	64	54	60	81	76	78	87	80	84
17	74	70	72	64	54	60	80	73	76	89	86	88
18	73	71	72	58	50	54	75	71	73	87	82	84
19	73	72	73	56	50	53	78	70	74	86	82	84
20	73	71	72	61	54	56	79	76	78	---	---	---
21	85	71	77	65	58	61	80	76	78	95	90	93
22	78	71	74	66	60	63	---	---	---	92	87	89
23	71	67	69	68	62	64	---	---	---	91	87	89
24	70	66	68	67	60	63	75	68	71	94	89	91
25	74	69	72	67	62	64	80	73	77	96	89	93
26	79	71	76	68	58	64	77	72	75	92	89	90
27	---	---	---	72	66	68	79	74	77	92	88	90
28	---	---	---	71	64	67	79	74	76	92	88	90
29	---	---	---	67	62	64	82	76	79	---	---	---
30	---	---	---	76	63	71	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	88	74	80	110	92	101	93	82	86
2	---	---	---	84	76	80	112	96	103	96	83	88
3	---	---	---	85	78	81	113	95	104	109	88	96
4	---	---	---	80	74	77	105	95	100	110	88	97
5	---	---	---	78	71	75	108	92	99	122	85	98
6	---	---	---	80	71	76	120	89	101	112	81	94
7	---	---	---	80	74	77	112	97	103	121	80	91
8	---	---	---	90	77	81	108	92	100	91	76	83
9	---	---	---	85	77	81	---	---	---	106	76	91
10	---	---	---	90	79	83	118	94	104	114	90	99
11	---	---	---	86	79	82	108	96	102	129	96	111
12	---	---	---	86	81	84	113	92	100	119	96	107
13	---	---	---	90	82	86	108	95	100	126	96	110
14	---	---	---	87	81	83	96	85	89	138	96	114
15	---	---	---	86	75	80	88	82	86	128	99	112
16	---	---	---	86	75	81	84	78	81	130	101	115
17	---	---	---	88	82	86	82	73	78	116	82	93
18	---	---	---	88	82	85	85	74	79	101	82	91
19	---	---	---	85	78	82	89	77	85	117	87	98
20	---	---	---	84	75	78	89	80	85	120	96	108
21	---	---	---	82	73	76	84	77	81	130	99	112
22	---	---	---	85	77	80	86	79	84	111	87	98
23	80	72	75	89	81	85	88	80	84	105	79	90
24	83	74	78	83	78	80	86	78	82	99	76	86
25	85	75	79	83	78	80	85	81	83	99	78	87
26	88	76	81	85	80	82	89	81	84	134	78	102
27	87	78	82	88	82	85	86	78	82	109	86	96
28	88	78	81	---	---	---	84	78	80	109	73	84
29	84	75	80	---	---	---	87	78	83	77	69	73
30	---	---	---	88	83	85	86	78	83	93	67	78
31	---	---	---	100	83	91	---	---	---	102	74	88
MONTH	---	---	---	---	---	---	---	---	---	138	67	96

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	110	76	88	140	77	107	77	63	69	75	50	61
2	94	66	82	145	84	111	84	65	72	57	41	50
3	152	83	105	148	98	124	79	66	71	55	44	49
4	136	94	108	134	96	115	77	68	72	53	43	46
5	100	81	90	145	87	104	82	63	69	61	32	47
6	107	72	85	---	---	---	75	49	64	65	50	59
7	126	73	93	128	71	106	79	58	68	52	40	46
8	118	93	103	150	63	114	74	58	65	49	37	40
9	163	79	120	140	94	116	71	56	63	46	37	41
10	170	106	136	134	94	113	69	53	62	57	39	47
11	162	100	132	158	107	128	---	---	---	62	50	57
12	154	112	131	161	96	122	---	---	---	64	50	57
13	142	109	122	169	63	117	---	---	---	60	48	53
14	141	105	119	147	64	117	---	---	---	66	47	56
15	131	98	110	145	93	117	---	---	---	70	60	64
16	106	78	97	142	90	117	79	44	57	73	58	68
17	114	76	90	128	24	92	---	---	---	75	61	70
18	116	86	95	102	43	74	67	51	60	78	61	72
19	103	81	90	124	46	94	83	54	66	74	55	64
20	114	84	97	147	72	111	78	13	61	66	56	60
21	128	90	104	127	12	96	82	2	37	65	54	59
22	124	92	107	118	25	79	60	1	25	69	60	64
23	154	83	113	124	12	84	84	57	70	71	61	65
24	148	105	127	118	44	83	96	72	85	66	58	62
25	158	108	133	108	61	87	101	50	77	60	48	56
26	138	104	121	105	37	71	78	14	52	68	55	60
27	---	---	---	82	40	61	89	34	73	67	56	63
28	---	---	---	65	43	52	87	54	75	60	54	57
29	101	84	91	60	47	55	82	38	68	74	54	62
30	132	82	98	71	52	62	125	62	84	74	56	60
31	---	---	---	71	58	64	77	49	66	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	78	32	57

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	28	21	24	---	---	---	80	72	76	81	62	69
2	28	12	23	---	---	---	80	72	77	84	60	72
3	39	16	26	---	---	---	72	66	68	89	80	84
4	40	30	34	---	---	---	68	66	67	---	---	---
5	56	30	42	---	---	---	68	64	66	91	88	91
6	78	52	64	---	---	---	74	66	70	90	86	88
7	52	42	45	---	---	---	76	71	74	88	85	86
8	56	43	48	---	---	---	74	70	73	85	78	82
9	58	50	53	---	---	---	---	---	---	81	78	79
10	51	48	50	65	59	62	74	64	69	87	80	84
11	59	49	54	65	58	61	76	71	74	87	83	86
12	62	53	57	70	61	67	74	67	71	89	82	85
13	59	56	58	62	53	56	72	67	69	88	80	83
14	62	58	60	59	53	55	76	70	73	90	86	88
15	63	60	61	68	56	62	75	71	74	88	80	85
16	64	61	63	68	58	63	78	71	74	87	80	83
17	64	62	63	68	59	65	76	68	73	89	85	87
18	65	61	63	59	54	56	70	65	67	86	81	83
19	65	61	63	57	54	55	74	42	65	85	81	83
20	63	59	61	58	54	56	75	35	51	90	82	85
21	72	59	64	67	54	60	68	27	47	92	89	91
22	66	57	61	67	62	65	---	---	---	91	85	88
23	59	53	55	69	62	65	---	---	---	88	85	86
24	58	51	54	66	59	62	66	38	44	91	87	88
25	60	54	57	65	56	60	81	58	76	94	88	91
26	65	54	60	68	59	63	78	72	76	89	87	88
27	61	56	59	71	63	67	79	75	77	89	86	88
28	---	---	---	68	63	66	78	73	76	89	86	88
29	---	---	---	64	59	61	80	72	76	---	---	---
30	---	---	---	74	61	68	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	---	---	---	86	72	78	105	85	95	86	70	76
2	---	---	---	81	74	78	107	88	97	83	73	76
3	---	---	---	82	74	78	110	91	100	102	77	87
4	---	---	---	79	72	75	101	93	97	97	80	85
5	---	---	---	76	66	73	105	90	97	85	74	79
6	---	---	---	74	34	45	106	85	96	82	74	78
7	---	---	---	78	31	51	105	88	94	81	68	73
8	---	---	---	77	74	76	102	85	92	85	70	76
9	---	---	---	83	72	78	97	85	91	88	73	80
10	---	---	---	80	74	77	98	86	90	99	73	84
11	---	---	---	83	74	79	99	87	93	107	82	90
12	---	---	---	85	79	82	103	84	91	94	75	83
13	---	---	---	87	81	84	102	88	93	97	78	86
14	---	---	---	86	79	81	88	73	80	116	82	96
15	---	---	---	80	70	74	79	71	75	113	69	93
16	---	---	---	83	68	77	77	71	74	112	81	96
17	---	---	---	87	79	84	74	65	70	103	70	84
18	---	---	---	87	81	84	79	68	73	95	75	84
19	---	---	---	83	77	80	83	71	80	106	80	90
20	---	---	---	82	73	76	83	70	77	102	83	90
21	---	---	---	78	70	74	78	71	75	112	79	97
22	---	---	---	84	75	78	80	75	78	97	78	87
23	76	70	73	86	80	83	80	74	77	94	72	81
24	77	73	75	81	76	79	77	71	74	93	72	79
25	80	73	77	82	75	77	80	75	77	95	71	82
26	82	74	77	83	79	80	80	74	77	91	47	72
27	85	75	80	86	81	83	79	70	74	97	14	54
28	85	76	79	87	78	82	75	68	71	101	69	81
29	82	73	77	87	81	85	78	70	73	78	64	71
30	---	---	---	84	78	81	77	68	72	87	60	74
31	---	---	---	95	77	86	---	---	---	85	71	77
MONTH	---	---	---	95	31	77	110	65	83	116	14	82

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	74	50	62	5	3	4	68	51	61	73	24	42
2	66	27	47	37	3	7	61	48	55	60	43	49
3	103	27	52	129	5	36	68	47	57	57	46	51
4	99	51	67	109	36	78	65	40	56	57	47	51
5	59	22	36	89	8	44	---	---	---	55	9	35
6	46	14	27	---	---	---	---	---	---	42	10	13
7	78	20	45	2	0	1	---	---	---	18	9	10
8	67	20	43	2	0	1	---	---	---	45	10	27
9	106	23	53	97	1	25	---	---	---	47	33	42
10	102	58	79	107	33	79	---	---	---	51	35	46
11	144	51	81	111	12	70	---	---	---	55	39	50
12	105	47	76	27	1	6	---	---	---	58	40	49
13	118	28	73	6	0	1	---	---	---	54	34	45
14	132	46	88	42	0	7	---	---	---	55	29	43
15	129	59	94	103	0	26	---	---	---	65	33	56
16	111	76	90	77	0	15	2	0	1	66	3	24
17	104	77	88	18	0	2	---	---	---	15	2	4
18	110	80	89	41	0	1	59	1	9	43	2	9
19	---	---	---	120	0	31	75	1	16	66	6	48
20	---	---	---	96	18	56	1	1	1	67	51	57
21	---	---	---	20	1	4	1	1	1	62	48	56
22	101	54	78	4	0	1	1	1	1	70	47	64
23	93	23	54	16	0	2	48	1	13	74	62	68
24	66	12	25	49	1	15	63	8	30	69	57	64
25	109	27	65	29	1	5	49	4	20	61	47	53
26	108	80	93	37	1	12	5	3	4	71	57	63
27	105	82	91	18	0	3	58	3	14	69	17	60
28	113	70	90	17	0	2	50	5	19	23	6	10
29	100	42	81	47	0	15	45	5	22	14	6	9
30	57	3	27	67	45	53	111	5	49	17	8	12
31	---	---	---	72	59	64	70	29	42	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	74	2	40

02092500 TRENT RIVER NEAR TRENTON, NC

LOCATION.--Lat 35°03'54", long 77°27'24", Jones County, Hydrologic Unit 03020204, on left bank 50 ft downstream of Free Bridge on Secondary Road 1129, 800 ft downstream of Little Chinquapin Branch, 1.5 mi southwest of Phillips Crossroads, and 6 mi west of Trenton.

DRAINAGE AREA.--168 mi^2.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above sea level. Prior to Mar. 21, 1951, nonrecording gage on bridge 50 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 4,000 ft^3/s on basis of one section slope-conveyance measurement of peak flow; maximum gage height, 22.33 ft, from high-water mark in gage house. Minimum discharge for period of record also occurred Oct. 24, 25, 26, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 17.3 ft; discharge, 7,600 ft^3/s, from information provided by North Carolina State Highway Commission.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1190	195	119	57	900	106	169	347	22	20	722	214
2	1180	187	110	54	1040	96	151	359	20	17	545	313
3	958	245	103	50	1030	88	135	329	18	13	414	374
4	728	292	95	48	877	81	122	263	25	9.6	334	438
5	580	319	88	50	702	75	109	193	74	7.7	300	566
6	468	332	83	54	559	72	96	146	132	6.7	272	692
7	378	340	80	55	450	68	85	114	149	6.5	227	891
8	317	332	77	57	368	63	75	91	104	5.9	175	930
9	277	301	73	58	307	58	69	74	71	6.1	127	763
10	247	252	70	70	257	55	67	61	53	6.0	98	584
11	217	205	66	140	220	52	66	50	40	5.0	85	427
12	189	169	63	187	197	54	63	42	31	6.1	68	294
13	167	145	61	212	201	63	71	35	24	4.9	53	175
14	155	130	60	216	253	71	91	30	19	4.2	48	120
15	149	117	60	204	362	73	157	26	14	3.8	48	89
16	149	111	59	174	447	72	337	23	12	3.5	41	70
17	301	101	57	140	523	151	394	20	11	3.2	40	54
18	1140	93	56	115	527	259	481	17	10	2.8	65	89
19	2140	88	55	101	472	358	611	15	13	2.5	69	400
20	2710	86	57	99	397	490	671	14	21	3.0	52	464
21	2690	82	62	109	329	593	649	13	23	7.6	40	466
22	2250	79	69	119	271	627	565	20	21	44	32	415
23	1730	76	77	134	221	671	458	21	23	135	26	380
24	1150	74	83	258	188	711	352	23	32	339	21	506
25	845	74	87	547	175	669	269	22	38	418	25	617
26	643	75	86	945	158	565	248	20	37	703	71	755
27	507	104	81	1320	137	446	225	19	38	921	81	775
28	402	131	76	1390	127	342	209	21	35	1150	60	684
29	325	135	70	1190	119	260	264	23	27	1150	45	574
30	267	129	65	912	---	209	315	24	23	1010	58	453
31	227	---	61	841	---	188	---	23	---	950	150	---
TOTAL	24676	4999	2309	9906	11814	7686	7574	2478	1160	6965.1	4392	13572
MEAN	796	167	74.5	320	407	248	252	79.9	38.7	225	142	452
MAX	2710	340	119	1390	1040	711	671	359	149	1150	722	930
MIN	149	74	55	48	119	52	63	13	10	2.5	21	54
CFSM	4.74	.99	.44	1.90	2.42	1.48	1.50	.48	.23	1.34	.84	2.69
IN.	5.46	1.11	.51	2.19	2.62	1.70	1.68	.55	.26	1.54	.97	3.01

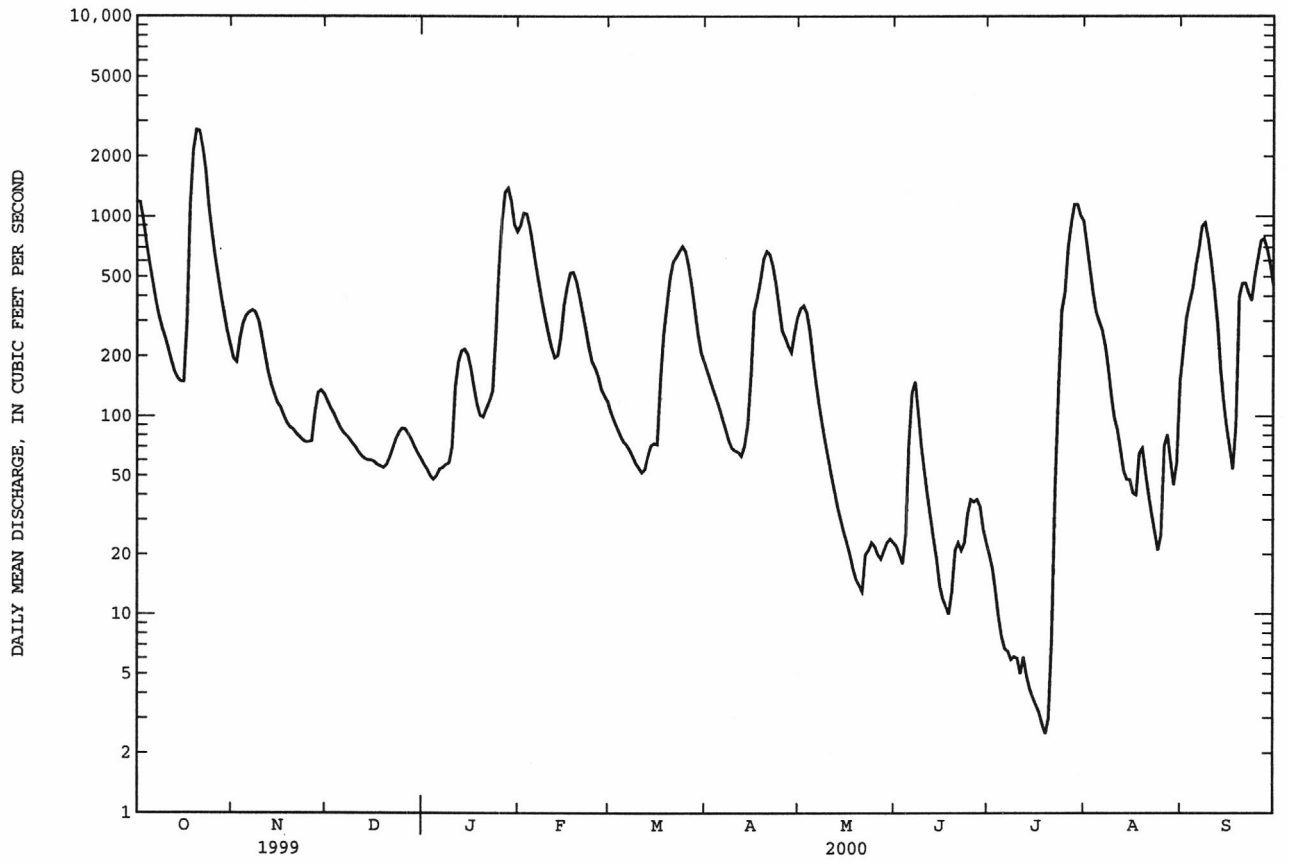
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	111	89.2	166	306	336	342	214	117	123	150	172	179
MAX	864	295	551	703	1024	963	684	435	768	1381	1587	2121
(WY)	1972	1963	1958	1978	1998	1983	1973	1978	1961	1962	1955	1999
MIN	1.58	1.80	6.65	17.2	31.8	36.5	23.1	10.2	2.77	4.78	1.81	2.55
(WY)	1955	1955	1955	1955	1955	1955	1955	1985	1985	1993	1993	1995

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	127384.6		97531.1			
ANNUAL MEAN	349		266		193	
HIGHEST ANNUAL MEAN					316	1960
LOWEST ANNUAL MEAN					79.8	1985
HIGHEST DAILY MEAN	12000	Sep 17	2710	Oct 20	12000	Sep 17 1999
LOWEST DAILY MEAN	3.7	Aug 10	2.5	Jul 19	.33	Oct 7 1993
ANNUAL SEVEN-DAY MINIMUM	4.2	Aug 9	3.3	Jul 14	.39	Oct 22 1973
INSTANTANEOUS PEAK FLOW			2810	Oct 20	15000*	Sep 17 1999
INSTANTANEOUS PEAK STAGE			15.93	Oct 20	22.33*	Sep 17 1999
INSTANTANEOUS LOW FLOW			2.4	Jul 19	.30*	Oct 23 1974
ANNUAL RUNOFF (CFSM)	2.08		1.59		1.15	
ANNUAL RUNOFF (INCHES)	28.21		21.60		15.64	
10 PERCENT EXCEEDS	719		695		476	
50 PERCENT EXCEEDS	123		118		81	
90 PERCENT EXCEEDS	14		20		8.2	

* See REMARKS.

02092500 TRENT RIVER NEAR TRENTON, NC--Continued



02092554 TRENT RIVER AT POLLOCKSVILLE, NC

LOCATION.--Lat 35°00'38", long 77°13'10", Jones County, Hydrologic Unit 03020204, at downstream side of bridge on U.S. Highway 17, 0.5 mi downstream from Goshen Branch, and 0.2 mi northeast of Pollocksville.

DRAINAGE AREA.--370 mi^2.

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

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is sea level. Prior to Oct. 1999 datum reported as 10 ft below sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from flood mark. This site is strongly affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. The published 24.0 hour mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e950	668	319	204	1600	406	511	920	348	157	1460	1020
2	e850	722	295	203	1580	251	430	748	207	214	1390	1050
3	e890	787	291	189	1540	275	350	599	-139	261	1330	1080
4	e1100	696	255	228	1390	174	300	696	479	205	1130	1050
5	e1450	733	258	99	1300	385	e250	620	445	77	989	784
6	1400	689	258	175	1180	210	e360	530	552	-3.8	884	1690
7	1180	589	196	182	1150	237	144	452	376	122	772	1930
8	1200	539	225	164	928	227	247	383	450	213	633	2060
9	1110	586	221	181	889	255	149	378	402	358	511	1840
10	880	531	237	258	745	115	204	311	400	132	392	1570
11	667	393	129	321	673	218	229	138	346	70	386	1360
12	404	429	233	296	475	165	46	319	234	30	229	1250
13	694	447	204	429	538	66	-17	180	205	242	349	1030
14	472	434	235	314	633	193	411	56	164	184	219	802
15	393	288	177	368	643	308	613	92	143	119	318	571
16	538	333	188	376	863	233	1080	324	221	168	289	406
17	645	310	196	271	658	351	948	358	188	31	69	401
18	1390	356	160	e325	926	598	881	212	185	205	369	373
19	1780	294	130	e260	857	479	855	149	131	258	143	1720
20	2230	280	297	382	726	682	882	142	-31	9.7	320	1420
21	2480	218	119	244	721	750	1040	-18	301	109	289	1290
22	2860	220	195	e220	745	670	823	371	272	279	361	1020
23	3030	227	289	308	682	732	856	194	13	362	337	1320
24	2970	227	118	288	557	893	e700	227	209	684	207	1530
25	2730	250	322	1100	495	e910	e750	175	248	639	74	1480
26	2460	212	e290	e1150	419	e850	e700	181	231	1260	351	1440
27	1970	258	221	e1170	436	837	755	315	226	1400	341	1250
28	1530	257	183	e1220	332	841	683	76	171	1470	487	1260
29	1220	303	229	1230	352	599	911	175	32	1440	649	991
30	1010	268	268	1360	---	512	926	-71	25	1350	427	1280
31	838	---	180	1550	---	456	---	328	---	1490	1140	---
TOTAL	43321	12544	6918	15065	24033	13878	17017	9560	7034	13534.9	16845	36268
MEAN	1397	418	223	486	829	448	567	308	234	437	543	1209
MAX	3030	787	322	1550	1600	910	1080	920	552	1490	1460	2060
MIN	393	212	118	99	332	66	-17	-71	-139	-3.8	69	373
CFSM	3.78	1.13	.60	1.31	2.24	1.21	1.53	.83	.63	1.18	1.47	3.27
IN.	4.36	1.26	.70	1.51	2.42	1.40	1.71	.96	.71	1.36	1.69	3.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

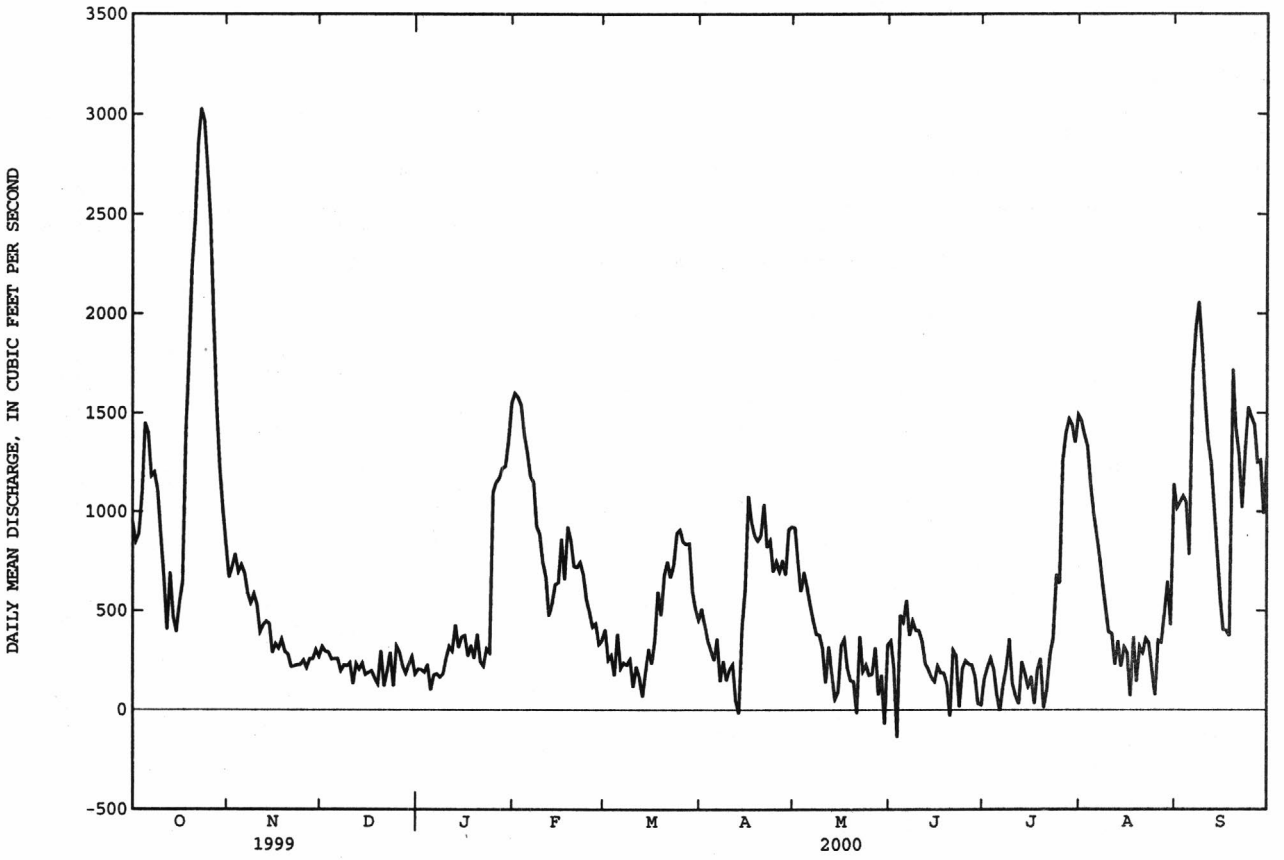
MEAN	659	244	337	673	1062	557	390	252	121	270	252	1635
MAX	1397	418	672	888	2187	847	615	308	234	642	543	4511
(WY)	2000	2000	1997	1998	1998	1998	1998	2000	2000	1996	2000	1999
MIN	38.0	40.8	125	486	442	310	165	191	35.1	69.9	-1.28	48.3
(WY)	1999	1999	1999	2000	1999	1999	1999	1997	1999	1998	1999	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	255776.66		216017.9			
ANNUAL MEAN	701		590		521	
HIGHEST ANNUAL MEAN					590	2000
LOWEST ANNUAL MEAN					417	1997
HIGHEST DAILY MEAN	17500	Sep 19	3030	Oct 23	17500	Sep 19 1999
LOWEST DAILY MEAN	-1060	Aug 30	-139	Jun 3	-1060	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	-136	Aug 24	121	Jul 11	-136	Aug 24 1999
INSTANTANEOUS PEAK FLOW			3300	Oct 23	18600	Sep 19 1999
INSTANTANEOUS PEAK STAGE			4.43	Sep 6	16.29*	Sep 19 1999
INSTANTANEOUS LOW FLOW			-1320	Jun 3	-3560	Sep 6 1996
10 PERCENT EXCEEDS	1410		1350		1330	
50 PERCENT EXCEEDS	267		377		281	
90 PERCENT EXCEEDS	-2.1		144		11	

e Estimated.
* See REMARKS.

Note.--Negative values indicate reverse flow.

02092554 TRENT RIVER AT POLLOCKSVILLE, NC--Continued



0209262905 NEUSE RIVER AT CHANNEL LIGHT 11

LOCATION.--Lat. 34°59'56", long. 76°56'36", Craven County, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Light 11.

PERIOD OF RECORD.--Water years 1989 to 1993, 1996 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.

pH (TOP AND BOTTOM): June 1996 to current year.

WATER TEMPERATURE (TOP): May to December 1989, January 1991 to July 1993, June 1996 to current year.

WATER TEMPERATURE (BOTTOM): June 1996 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.

DISSOLVED OXYGEN (MID): May to December 1989, January 1991 to July 1993.

DISSOLVED OXYGEN, PERCENT SATURATION, (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION, (MID): May to December 1989, January 1991 to July 1993.

INSTRUMENTATION.-- Water-quality monitor from May to December 1989, January 1991 to July 1993. Constituents monitored were: specific conductance, top and bottom, water temperature top, dissolved oxygen, top, mid-depth and bottom. Water-quality monitor with satellite telemetry from June 1996 to current year. Constituents monitored were the same as previous water years except, mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed on August 29, 1999 to prevent possible destruction of the equipment during Hurricanes Dennis and Floyd. It was reinstalled October 6, 1999. Prior to June 1996, top constituents were monitored at 10 feet above streambed, mid constituents at 6 feet above streambed, and bottom constituents 2 feet above streambed. Beginning in June 1996 top constituents were monitored at 8 feet above streambed, and bottom constituents 2 feet above streambed. Salinity and dissolved oxygen, percent saturation are computed. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	16.6, August 12, 2000	<0.1, on many days during the period
SALINITY (BOTOM), ppt	21.4, August 12, 2000	<0.1, on many days during the period
pH (TOP), standard units	9.9, March 17, 1999	5.7, February 16, 1998
pH (BOTTOM), standard units	9.3, September 23, 1998	5.4, October 10, 1999
WATER TEMPERATURE (TOP), °C	33.3, August 1, 1999	1.6, January 29, 2000
WATER TEMPERATURE (BOTTOM), °C	30.5, June 28, 1998	1.7, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	20.0, February 18, 1992	<1.0, on several days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	21.2, February 20, 1991	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	16.6, August 12	<0.1, on several days during the year
SALINITY (BOTTOM), ppt	21.4, August 12	<0.1, on several days during the year
pH (TOP), standard units	9.3, May 7	6.0, February 10
pH (BOTTOM), standard units	9.1, May 3, 4	5.4, October 10
WATER TEMPERATURE (TOP), °C	31.2, June 23	1.6, January 29
WATER TEMPERATURE (BOTTOM), °C	29.2, July 20	1.7, January 29
DISSOLVED OXYGEN (TOP), mg/L	16.5, January 29	<1.0, August 11
DISSOLVED OXYGEN (BOTTOM), mg/L	13.4, February 2	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	185, August 15	<10, August 11
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	131, May 4	<10, on many days during the year

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	---	---	---	---	---	---	1.3	.1	.7	---	---	---
2	---	---	---	---	---	---	1.4	.4	.9	---	---	---
3	---	---	---	---	---	---	.7	.4	.6	---	---	---
4	---	---	---	---	---	---	.8	.4	.5	---	---	---
5	---	---	---	---	---	---	.6	.4	.5	4.5	3.0	3.8
6	---	---	---	---	---	---	.8	.5	.7	4.1	2.6	3.6
7	.0	.0	.0	---	---	---	1.4	.5	.9	3.4	2.4	3.0
8	.0	.0	.0	---	---	---	.7	.5	.6	3.1	2.4	2.8
9	.0	.0	.0	---	---	---	.8	.3	.7	2.8	1.6	2.1
10	.0	.0	.0	.1	.0	.1	1.5	.8	1.0	3.7	1.9	2.7
11	.0	.0	.0	.1	.1	.1	2.0	.9	1.3	4.2	3.3	3.7
12	.1	.0	.0	.2	.1	.1	1.1	.6	.8	4.2	1.8	2.7
13	.1	.0	.0	.1	.1	.1	1.0	.8	.9	2.8	1.6	2.0
14	.0	.0	.0	.1	.1	.1	1.0	.6	.8	3.1	2.2	2.6
15	.0	.0	.0	.7	.1	.5	1.2	.6	.8	2.9	2.0	2.5
16	.1	.0	.0	1.0	.4	.7	4.5	.8	1.7	4.5	1.8	3.3
17	---	---	---	.7	.0	.3	4.2	.5	2.6	4.7	2.5	3.8
18	---	---	---	.2	.1	.2	3.3	1.8	2.5	3.3	2.7	3.0
19	---	---	---	.3	.2	.2	3.9	1.5	2.9	3.4	2.1	2.9
20	---	---	---	.3	.1	.2	3.0	1.0	2.0	3.0	1.4	2.4
21	---	---	---	.2	.1	.1	2.5	1.2	2.1	4.0	2.0	3.4
22	---	---	---	.1	.1	.1	---	---	---	2.5	1.2	1.8
23	---	---	---	.3	.1	.1	---	---	---	1.9	1.7	1.8
24	---	---	---	.2	.1	.1	---	---	---	2.4	1.7	2.0
25	---	---	---	.2	.1	.2	---	---	---	2.9	1.2	1.8
26	---	---	---	.2	.1	.1	---	---	---	2.8	1.5	2.0
27	---	---	---	.3	.1	.2	---	---	---	2.6	1.6	2.0
28	---	---	---	.3	.2	.2	---	---	---	1.9	.7	1.2
29	---	---	---	.2	.1	.2	---	---	---	.8	.5	.7
30	---	---	---	.5	.1	.3	---	---	---	.7	.5	.6
31	---	---	---	---	---	---	---	---	---	.8	.4	.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.7	.5	.6	1.1	.2	.4	1.8	.8	1.1	---	---	---
2	1.1	.6	.9	2.2	1.1	1.6	1.0	.3	.8	---	---	---
3	.9	.5	.6	1.6	1.3	1.5	---	---	---	---	---	---
4	.5	.1	.3	1.9	1.5	1.7	.5	.0	.2	1.3	.2	.7
5	.9	.3	.6	1.8	1.4	1.6	---	---	---	.3	.1	.2
6	.9	.3	.7	1.6	1.4	1.5	---	---	---	.3	.1	.2
7	.5	.1	.3	1.9	1.5	1.7	---	---	---	.8	.3	.5
8	.7	.1	.3	2.7	1.6	2.1	---	---	---	2.4	.4	1.1
9	.4	.2	.3	4.5	1.7	2.3	---	---	---	2.4	.9	1.4
10	.2	.1	.2	4.2	1.8	2.6	---	---	---	1.9	.6	1.2
11	.2	.1	.2	2.9	1.6	2.4	---	---	---	3.2	.7	2.1
12	.3	.1	.2	4.9	2.0	3.1	---	---	---	4.5	1.1	1.9
13	.3	.2	.3	5.1	2.8	3.9	---	---	---	3.9	1.7	2.4
14	.5	.3	.4	3.8	2.6	3.1	---	---	---	3.5	1.3	2.9
15	.6	.3	.6	3.2	2.2	2.6	---	---	---	4.0	3.0	3.5
16	.6	.1	.4	2.9	1.9	2.4	---	---	---	3.6	2.5	3.1
17	1.0	.2	.4	3.5	.9	2.4	---	---	---	3.2	2.2	2.8
18	.8	.1	.4	3.5	2.9	3.2	---	---	---	---	---	---
19	.3	.1	.2	3.3	2.7	3.0	---	---	---	3.7	2.3	3.0
20	.4	.2	.3	3.3	2.2	2.5	---	---	---	4.2	2.5	3.5
21	.3	.2	.2	2.6	1.0	1.6	---	---	---	4.5	3.1	3.9
22	.2	.1	.1	2.2	1.0	1.6	---	---	---	4.1	2.8	3.4
23	.1	.1	.1	2.8	1.5	2.1	---	---	---	4.6	2.8	4.1
24	.1	.0	.1	2.1	.7	1.1	---	---	---	3.5	2.4	3.0
25	.1	.0	.0	1.4	.3	.8	---	---	---	4.1	3.1	3.5
26	.1	.0	.1	2.0	.7	1.3	---	---	---	4.1	2.7	3.3
27	.1	.1	.1	2.9	.7	1.6	---	---	---	4.6	2.4	3.1
28	.3	.1	.2	---	---	---	---	---	---	4.9	3.2	4.1
29	.2	.1	.2	---	---	---	---	---	---	---	---	---
30	---	---	---	2.4	1.6	2.1	---	---	---	---	---	---
31	---	---	---	2.4	1.6	1.8	---	---	---	---	---	---
MONTH	1.1	.0	.3	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	7.2	3.9	5.8	11.1	8.3	9.5	10.4	4.1	6.7	---	---	---
2	6.5	4.4	5.4	11.3	7.3	8.9	8.2	4.5	6.1	---	---	---
3	7.7	5.4	6.7	12.2	7.3	9.8	6.1	2.1	4.0	---	---	---
4	7.3	5.3	6.6	12.6	10.2	11.6	9.3	2.5	4.0	---	---	---
5	6.0	5.1	5.6	13.1	10.1	11.8	6.5	1.8	4.0	---	---	---
6	6.9	5.1	5.9	11.1	9.2	10.1	8.7	1.3	3.8	---	---	---
7	7.0	5.6	6.1	12.0	9.0	10.1	13.1	4.3	8.3	---	---	---
8	6.4	6.1	6.2	12.2	8.2	10.4	14.2	3.6	9.3	---	---	---
9	6.2	3.5	5.7	12.4	9.0	10.3	10.7	4.8	7.3	3.1	1.4	2.4
10	6.0	2.8	5.1	13.3	10.6	12.1	11.9	3.7	5.5	2.5	1.2	1.9
11	6.8	2.3	5.8	13.1	10.9	12.0	16.2	4.1	8.5	2.6	1.4	2.1
12	8.8	1.8	6.4	11.2	10.7	11.0	16.6	9.5	11.5	2.4	1.0	1.7
13	10.3	3.8	7.8	11.8	11.1	11.4	13.9	10.0	12.0	2.0	.5	1.3
14	9.9	2.7	8.3	11.9	9.0	10.6	---	---	---	1.8	1.1	1.4
15	9.4	4.4	7.9	---	---	---	---	---	---	---	---	---
16	9.9	2.2	7.9	10.6	8.2	9.6	---	---	---	---	---	---
17	---	---	---	10.7	8.4	9.3	15.3	12.1	13.6	---	---	---
18	11.8	7.5	9.3	11.3	7.0	9.1	13.4	10.9	12.3	---	---	---
19	10.1	6.8	9.0	12.7	9.2	11.1	12.3	8.3	10.4	---	---	---
20	12.1	7.8	9.8	13.0	10.7	11.8	10.6	9.5	10.0	---	---	---
21	8.6	3.5	7.3	12.4	10.6	11.8	10.6	8.3	9.3	---	---	---
22	11.8	7.2	9.4	11.9	9.5	11.1	9.2	6.8	7.6	---	---	---
23	10.8	6.8	8.7	11.9	8.9	10.4	9.3	7.1	8.4	---	---	---
24	9.0	7.4	8.0	10.7	9.2	9.9	10.6	8.9	9.3	---	---	---
25	9.8	7.2	8.9	11.3	7.7	10.2	10.1	9.0	9.5	---	---	---
26	10.0	8.5	9.0	10.8	6.8	8.9	---	---	---	---	---	---
27	9.5	7.8	8.7	8.3	4.7	6.0	---	---	---	---	---	---
28	12.4	8.0	9.6	10.6	3.4	6.9	---	---	---	---	---	---
29	11.7	9.3	10.6	10.2	5.4	7.1	---	---	---	5.8	1.7	3.5
30	11.7	8.3	9.9	10.9	5.1	6.6	---	---	---	6.2	3.1	4.8
31	---	---	---	9.1	4.7	6.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	---	---	---	---	---	---	1.3	.1	.7	---	---	---
2	---	---	---	---	---	---	1.4	.9	1.1	---	---	---
3	---	---	---	---	---	---	1.2	.8	1.1	---	---	---
4	---	---	---	---	---	---	1.1	.5	.9	---	---	---
5	---	---	---	---	---	---	1.1	.7	.8	4.5	3.1	4.0
6	---	---	---	---	---	---	.9	.7	.8	4.2	3.2	3.7
7	.0	.0	.0	---	---	---	1.5	.6	1.0	3.9	3.1	3.5
8	.0	.0	.0	---	---	---	2.4	.8	1.2	6.1	2.9	3.7
9	.0	.0	.0	---	---	---	4.0	1.4	3.2	5.9	2.9	3.8
10	.0	.0	.0	.1	.1	.1	4.0	1.1	2.7	6.2	2.9	4.3
11	.0	.0	.0	.1	.1	.1	4.3	1.4	2.2	4.9	3.6	4.0
12	.1	.0	.0	.2	.1	.1	5.2	2.0	3.5	---	---	---
13	.0	.0	.0	.1	.1	.1	3.7	1.2	2.6	4.4	1.6	2.6
14	.0	.0	.0	2.3	.1	.3	5.2	.9	2.1	3.2	2.3	2.7
15	.0	.0	.0	.8	.1	.6	6.5	3.6	5.9	5.7	2.6	3.5
16	.1	.0	.0	1.0	.4	.7	7.4	3.7	6.8	5.9	3.3	4.9
17	---	---	---	.7	.0	.3	7.7	3.7	6.9	4.7	3.4	4.0
18	---	---	---	.5	.2	.3	7.6	3.6	6.3	---	---	---
19	---	---	---	.8	.3	.5	6.8	2.9	3.2	4.6	3.0	3.4
20	---	---	---	.5	.1	.3	5.7	2.9	3.8	3.8	1.4	2.6
21	---	---	---	.6	.1	.2	6.9	2.3	4.3	4.0	3.0	3.6
22	---	---	---	.4	.1	.1	---	---	---	3.3	2.3	2.9
23	---	---	---	.5	.2	.3	---	---	---	2.6	1.8	2.1
24	---	---	---	.5	.1	.3	---	---	---	2.4	1.8	2.0
25	---	---	---	.4	.2	.3	---	---	---	2.9	1.2	1.9
26	---	---	---	.2	.1	.1	---	---	---	3.4	1.9	2.4
27	---	---	---	.3	.1	.2	---	---	---	2.7	1.7	2.2
28	---	---	---	.3	.2	.2	---	---	---	2.6	1.3	1.8
29	---	---	---	.3	.2	.2	---	---	---	1.8	.6	.9
30	---	---	---	.5	.1	.3	---	---	---	1.8	.5	.7
31	---	---	---	---	---	---	---	---	---	.9	.5	.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	1.2	.7	.8	6.0	5.2	5.7	---	---	---	---	---	---
2	1.1	.7	1.0	7.0	3.2	6.1	1.1	.3	.8	---	---	---
3	1.1	.5	.9	8.3	1.4	6.7	---	---	---	---	---	---
4	1.4	.2	.7	8.2	1.8	5.8	.5	.1	.2	1.7	.3	.9
5	1.4	.4	.8	8.1	1.6	5.5	1.8	.4	1.3	1.4	.3	.6
6	6.9	.8	3.0	8.0	2.7	7.2	1.7	.2	1.1	2.5	.5	1.5
7	4.9	.4	1.2	8.0	1.7	6.1	1.6	.5	1.2	3.1	1.8	2.8
8	5.6	.3	1.7	7.7	3.8	6.5	1.8	.1	.7	5.0	1.4	3.7
9	.6	.2	.3	7.6	3.3	6.5	2.8	.1	1.2	6.2	1.0	4.1
10	5.9	.2	1.6	7.2	3.4	5.2	5.1	2.4	2.9	7.7	1.1	5.7
11	6.0	.2	4.6	6.4	2.6	4.3	5.6	1.4	2.7	6.5	1.1	3.9
12	2.4	.1	.3	6.5	2.3	4.1	6.1	2.1	3.9	7.3	4.6	6.3
13	.6	.2	.4	5.2	3.5	4.1	4.2	3.4	3.7	7.3	5.6	6.5
14	1.0	.3	.4	3.9	2.9	3.4	3.6	2.6	3.2	7.1	3.1	4.9
15	.8	.4	.6	3.9	3.0	3.3	4.4	2.4	3.2	4.4	3.1	3.7
16	.7	.2	.4	4.0	2.1	3.2	---	---	---	4.4	3.2	3.6
17	.9	.2	.5	3.5	1.0	2.5	---	---	---	6.3	2.8	3.9
18	.8	.3	.5	3.6	2.6	3.2	---	---	---	---	---	---
19	.4	.1	.2	3.4	2.9	3.1	---	---	---	4.5	2.5	3.3
20	---	---	---	3.3	2.3	2.6	---	---	---	4.6	3.3	4.1
21	---	---	---	2.6	1.1	1.8	---	---	---	6.0	4.1	5.1
22	.2	.1	.1	2.2	1.0	1.6	---	---	---	7.3	3.5	5.4
23	.1	.1	.1	3.3	1.7	2.3	---	---	---	6.4	4.2	4.7
24	.1	.0	.1	4.3	1.1	2.8	---	---	---	9.8	4.4	7.4
25	.1	.0	.1	5.0	3.8	4.7	---	---	---	12.5	9.6	10.6
26	.1	.0	.1	5.0	2.5	4.1	---	---	---	12.5	8.3	11.1
27	.1	.1	.1	5.2	2.5	3.9	---	---	---	12.0	7.0	10.3
28	---	---	---	---	---	---	---	---	---	12.0	5.5	9.5
29	5.3	.2	3.3	---	---	---	---	---	---	---	---	---
30	---	---	---	2.7	2.0	2.4	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.3	7.7	8.8	14.1	10.0	11.7	15.8	13.9	15.0	---	---	---
2	9.3	8.3	9.0	13.4	9.2	11.8	16.6	13.3	15.5	---	---	---
3	9.2	6.9	8.2	14.2	11.9	13.1	17.0	13.5	15.7	---	---	---
4	7.3	6.7	7.1	15.3	11.9	13.9	18.1	16.6	17.4	---	---	---
5	7.9	4.7	6.9	15.5	12.8	14.4	18.9	18.1	18.5	---	---	---
6	9.1	6.0	7.5	15.4	13.9	14.9	19.2	16.6	18.4	---	---	---
7	7.3	4.4	6.3	14.9	10.6	11.7	19.8	16.5	18.1	---	---	---
8	9.2	6.2	7.7	13.5	10.4	12.1	20.4	18.8	19.7	---	---	---
9	9.7	8.3	8.9	13.5	11.8	12.9	20.8	18.6	19.7	11.5	4.6	8.4
10	9.7	8.6	9.1	13.4	11.4	12.6	21.2	19.4	20.8	9.9	3.7	6.6
11	10.0	8.9	9.6	15.2	12.8	13.4	21.3	20.9	21.3	7.4	2.2	3.8
12	11.2	9.9	10.7	15.4	10.9	11.9	21.4	21.1	21.3	4.3	2.2	3.1
13	12.2	9.5	11.2	11.7	11.1	11.5	21.2	15.3	20.2	7.0	2.2	4.4
14	12.5	10.0	11.5	12.1	10.8	11.8	---	---	---	7.7	4.4	5.7
15	12.9	9.3	11.9	---	---	---	---	---	---	---	---	---
16	12.8	10.7	12.0	13.0	11.8	12.3	---	---	---	---	---	---
17	---	---	---	13.1	12.0	12.6	18.8	14.1	15.1	---	---	---
18	13.8	10.2	12.9	15.1	12.6	13.9	15.4	13.1	14.6	---	---	---
19	14.4	10.3	13.4	14.8	12.1	13.9	14.8	10.9	13.2	---	---	---
20	15.2	9.8	12.2	15.3	10.9	13.3	13.0	9.8	11.0	---	---	---
21	12.4	11.0	11.8	15.8	12.1	14.2	13.0	9.8	11.6	---	---	---
22	13.7	10.6	11.7	13.2	12.0	12.6	14.3	12.9	13.8	---	---	---
23	14.1	10.4	12.4	13.6	12.0	13.0	13.5	12.8	13.2	---	---	---
24	14.1	12.6	13.5	12.9	10.4	12.3	14.6	12.9	13.6	---	---	---
25	13.1	9.8	11.7	11.6	10.3	10.9	15.4	10.9	14.7	---	---	---
26	11.8	8.5	10.2	12.4	11.1	11.6	---	---	---	---	---	---
27	13.9	8.8	11.2	13.0	11.7	12.5	---	---	---	---	---	---
28	14.2	10.2	12.8	13.3	12.2	12.9	---	---	---	---	---	---
29	15.1	11.5	13.6	12.9	12.0	12.5	---	---	---	7.6	2.7	5.0
30	16.8	10.2	13.7	13.8	11.7	12.8	---	---	---	6.4	3.2	5.4
31	---	---	---	14.4	12.0	13.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	7.5	7.7	---	---	---
2	---	---	---	---	---	---	8.1	7.8	7.9	---	---	---
3	---	---	---	---	---	---	8.2	7.8	8.0	---	---	---
4	---	---	---	---	---	---	8.0	7.9	8.0	---	---	---
5	---	---	---	---	---	---	8.3	7.9	8.0	7.5	7.3	7.4
6	---	---	---	---	---	---	8.0	7.7	7.9	7.7	7.4	7.5
7	6.4	6.2	6.3	---	---	---	8.0	7.6	7.8	7.8	7.5	7.6
8	6.5	6.3	6.4	---	---	---	8.8	7.8	8.1	8.6	7.6	8.0
9	6.4	6.3	6.4	---	---	---	8.9	7.9	8.3	8.4	7.8	8.1
10	6.5	6.3	6.4	6.6	6.4	6.5	8.8	7.9	8.4	8.3	7.3	7.8
11	6.5	6.4	6.4	6.8	6.6	6.7	8.4	7.8	8.0	7.8	7.3	7.6
12	6.6	6.4	6.5	6.9	6.7	6.8	8.9	7.9	8.3	8.4	7.4	7.8
13	6.6	6.4	6.5	6.9	6.6	6.7	8.4	8.0	8.2	8.1	7.4	7.5
14	6.6	6.4	6.5	6.9	6.7	6.8	8.2	7.8	8.0	7.6	7.4	7.5
15	6.8	6.6	6.7	7.1	6.7	7.0	8.5	7.8	8.1	8.3	7.5	7.8
16	6.8	6.7	6.8	7.1	7.0	7.1	8.1	7.8	7.9	8.1	7.5	7.8
17	---	---	---	7.1	6.7	6.9	8.8	7.9	8.2	7.9	7.6	7.8
18	---	---	---	7.1	6.9	7.0	8.7	8.0	8.3	7.8	7.6	7.6
19	---	---	---	7.4	7.0	7.2	8.5	8.1	8.3	7.9	7.6	7.7
20	---	---	---	8.5	6.9	7.3	8.4	8.0	8.2	7.9	7.2	7.7
21	---	---	---	7.2	6.7	7.0	8.4	8.0	8.1	7.7	7.5	7.6
22	---	---	---	6.8	6.6	6.7	---	---	---	7.6	7.4	7.5
23	---	---	---	8.4	6.6	7.0	---	---	---	7.7	7.5	7.6
24	---	---	---	7.1	6.6	6.9	---	---	---	7.6	7.5	7.6
25	---	---	---	8.3	7.0	7.3	---	---	---	7.5	7.3	7.4
26	---	---	---	7.3	7.0	7.2	---	---	---	7.5	7.4	7.4
27	---	---	---	7.4	7.1	7.3	---	---	---	7.6	7.4	7.5
28	---	---	---	8.0	7.2	7.4	---	---	---	7.5	7.2	7.4
29	---	---	---	7.8	7.2	7.4	---	---	---	7.2	7.1	7.1
30	---	---	---	7.9	7.3	7.7	---	---	---	7.2	7.0	7.1
31	---	---	---	---	---	---	---	---	---	7.2	6.9	7.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	6.9	7.1	7.9	7.1	7.5	8.1	7.3	7.7	---	---	---
2	7.3	6.9	7.3	7.8	7.2	7.5	8.0	7.1	7.5	---	---	---
3	7.2	6.9	7.0	7.8	7.3	7.6	---	---	---	---	---	---
4	6.9	6.2	6.5	7.8	7.3	7.7	7.3	6.8	7.0	8.8	7.6	8.4
5	6.9	6.6	6.8	8.4	7.7	7.9	7.8	7.0	7.4	8.8	7.4	8.0
6	7.0	6.5	6.9	8.7	7.7	8.1	8.1	7.1	7.5	8.9	7.4	8.2
7	6.7	6.2	6.5	8.9	8.0	8.5	8.4	7.4	7.9	9.3	8.3	8.7
8	6.8	6.1	6.4	8.7	7.2	7.8	7.9	7.2	7.6	8.9	7.4	8.0
9	6.6	6.4	6.4	8.3	7.2	7.8	7.5	6.8	7.2	8.2	7.2	7.7
10	6.5	6.0	6.4	9.0	7.2	8.1	8.5	7.2	7.7	8.2	7.2	7.6
11	6.6	6.2	6.4	8.1	7.6	7.8	8.3	7.4	7.8	8.7	7.6	8.1
12	6.6	6.2	6.5	7.6	7.3	7.4	8.2	7.5	7.9	8.8	7.5	8.4
13	6.7	6.6	6.6	8.2	7.5	7.7	8.1	7.1	7.4	8.9	7.3	8.0
14	6.8	6.6	6.7	8.6	7.5	7.8	7.9	7.2	7.4	8.4	7.6	7.8
15	7.0	6.7	6.9	9.0	7.6	8.2	7.8	7.2	7.4	7.8	7.3	7.5
16	7.0	6.8	6.9	8.7	7.7	8.4	---	---	---	7.9	7.3	7.6
17	7.3	6.8	7.0	8.6	7.3	7.9	---	---	---	7.9	7.5	7.6
18	7.3	6.9	7.1	8.8	7.7	8.3	---	---	---	---	---	---
19	7.4	7.0	7.2	9.0	8.3	8.7	---	---	---	7.9	7.4	7.6
20	7.5	7.1	7.4	8.9	8.3	8.6	---	---	---	8.0	7.5	7.7
21	7.6	7.4	7.5	8.4	7.9	8.2	---	---	---	8.2	7.5	7.8
22	7.6	6.9	7.3	8.2	7.9	8.0	---	---	---	7.9	7.5	7.7
23	7.1	6.8	6.9	8.2	7.8	8.1	---	---	---	8.2	7.4	7.7
24	7.7	6.7	7.0	8.2	7.8	8.0	---	---	---	8.0	7.3	7.6
25	7.5	6.5	6.8	8.9	7.6	8.1	---	---	---	8.0	7.6	7.7
26	8.1	6.5	6.9	8.6	7.5	8.1	---	---	---	8.0	7.4	7.7
27	6.9	6.7	6.8	8.9	7.5	8.1	---	---	---	8.3	7.7	7.9
28	7.0	6.5	6.8	---	---	---	---	---	---	8.2	7.5	7.6
29	7.4	6.8	7.0	---	---	---	---	---	---	---	---	---
30	---	---	---	7.7	7.2	7.4	---	---	---	---	---	---
31	---	---	---	8.3	7.3	7.8	---	---	---	---	---	---
MONTH	8.1	6.0	6.9	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	8.5	7.6	8.0	8.0	7.7	7.8	8.4	7.4	7.9	---	---	---
2	8.6	7.6	8.2	8.2	7.7	7.9	8.5	7.8	8.2	---	---	---
3	8.4	7.2	7.7	8.1	7.3	7.8	8.6	7.8	8.3	---	---	---
4	7.9	7.3	7.5	7.5	7.1	7.3	8.4	7.1	7.8	---	---	---
5	8.4	7.5	7.9	7.9	7.2	7.5	8.2	6.9	7.4	---	---	---
6	8.2	7.7	8.0	8.2	7.5	7.8	8.2	6.9	7.5	---	---	---
7	8.2	7.5	7.8	8.3	7.7	8.0	8.3	6.9	7.3	---	---	---
8	8.6	7.8	8.2	8.4	8.0	8.1	7.8	7.0	7.3	---	---	---
9	8.8	8.2	8.4	8.2	7.2	8.0	8.1	7.1	7.5	8.3	6.9	7.4
10	8.6	7.6	8.3	7.9	7.1	7.4	8.2	6.9	7.5	8.1	6.9	7.3
11	8.4	7.1	7.9	8.0	7.4	7.7	7.9	6.8	7.0	7.9	7.3	7.6
12	7.9	7.0	7.4	8.1	7.8	7.9	7.1	6.8	6.9	7.9	7.0	7.3
13	7.8	7.0	7.3	8.2	7.7	8.0	7.1	6.9	7.0	8.2	7.0	7.4
14	8.0	7.1	7.4	8.4	7.9	8.1	---	---	---	8.6	7.2	7.7
15	8.0	7.3	7.6	---	---	---	---	---	---	---	---	---
16	7.8	7.4	7.6	8.5	8.1	8.3	---	---	---	---	---	---
17	---	---	---	8.5	8.3	8.4	8.0	7.4	7.7	---	---	---
18	8.1	7.6	7.8	8.7	8.0	8.4	8.2	7.4	7.8	---	---	---
19	8.1	7.7	7.9	8.4	7.3	7.9	8.3	7.3	7.8	---	---	---
20	8.4	7.8	8.1	8.2	7.5	7.8	8.3	8.1	8.2	---	---	---
21	8.9	8.0	8.2	8.1	7.8	8.0	8.2	7.8	8.0	---	---	---
22	8.0	7.1	7.4	8.5	7.9	8.1	8.5	7.9	8.1	---	---	---
23	8.3	7.5	7.8	8.5	8.2	8.3	8.5	7.9	8.1	---	---	---
24	8.1	7.6	7.9	8.5	7.9	8.3	8.1	7.2	7.8	---	---	---
25	8.1	7.5	7.7	8.4	8.0	8.2	8.2	7.3	7.8	---	---	---
26	7.9	7.5	7.7	8.5	7.9	8.2	---	---	---	---	---	---
27	7.7	7.3	7.5	8.7	7.8	8.2	---	---	---	---	---	---
28	7.8	7.2	7.5	8.4	7.7	8.1	---	---	---	---	---	---
29	7.6	7.3	7.5	8.2	7.6	7.9	---	---	---	7.8	7.2	7.5
30	8.1	7.5	7.7	8.3	7.1	7.9	---	---	---	7.9	7.3	7.5
31	---	---	---	8.3	7.7	8.1	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	7.5	7.5	---	---	---
2	---	---	---	---	---	---	7.8	7.5	7.7	---	---	---
3	---	---	---	---	---	---	7.8	7.6	7.6	---	---	---
4	---	---	---	---	---	---	7.8	7.5	7.7	---	---	---
5	---	---	---	---	---	---	7.7	7.3	7.6	---	---	---
6	---	---	---	---	---	---	7.6	7.5	7.5	---	---	---
7	5.7	5.5	5.6	---	---	---	7.6	7.3	7.5	---	---	---
8	5.7	5.5	5.6	---	---	---	7.6	7.1	7.3	---	---	---
9	5.6	5.5	5.5	---	---	---	7.3	7.1	7.2	---	---	---
10	5.8	5.4	5.6	6.8	6.6	6.7	7.9	7.1	7.4	---	---	---
11	5.8	5.6	5.7	6.9	6.8	6.9	7.8	7.0	7.5	---	---	---
12	6.0	5.7	5.8	7.1	6.9	7.0	7.5	6.9	7.1	---	---	---
13	5.9	5.7	5.7	7.0	6.9	7.0	7.5	7.0	7.1	---	---	---
14	5.9	5.7	5.8	7.1	6.9	7.0	7.6	6.8	7.2	---	---	---
15	6.0	5.8	5.9	7.1	6.9	7.1	6.9	6.9	6.9	---	---	---
16	6.1	5.9	6.0	7.2	7.0	7.1	7.1	6.9	7.0	---	---	---
17	---	---	---	7.2	6.9	7.1	7.2	6.9	7.0	---	---	---
18	---	---	---	7.2	7.0	7.1	7.3	6.9	7.0	---	---	---
19	---	---	---	7.2	7.0	7.1	7.6	6.9	7.4	---	---	---
20	---	---	---	7.2	6.9	7.1	7.5	7.2	7.4	---	---	---
21	---	---	---	7.2	6.9	7.0	7.4	6.9	7.2	---	---	---
22	---	---	---	7.5	6.9	7.0	---	---	---	---	---	---
23	---	---	---	7.6	7.1	7.3	---	---	---	---	---	---
24	---	---	---	7.5	6.9	7.2	---	---	---	---	---	---
25	---	---	---	7.6	7.2	7.4	---	---	---	---	---	---
26	---	---	---	7.5	7.2	7.3	---	---	---	---	---	---
27	---	---	---	7.6	7.3	7.4	---	---	---	---	---	---
28	---	---	---	7.7	7.4	7.5	---	---	---	---	---	---
29	---	---	---	7.8	7.5	7.6	---	---	---	---	---	---
30	---	---	---	7.7	7.5	7.6	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	---	---	---	7.3	7.2	7.2	---	---	---	---	---	---
2	---	---	---	7.3	7.0	7.2	8.2	7.4	7.8	---	---	---
3	---	---	---	7.6	7.0	7.1	---	---	---	---	---	---
4	---	---	---	7.8	7.0	7.2	7.7	7.3	7.5	9.1	8.2	8.7
5	---	---	---	7.8	6.9	7.3	8.0	7.4	7.6	8.7	7.3	8.2
6	---	---	---	7.4	6.9	7.0	8.3	7.5	7.8	8.7	7.3	7.9
7	---	---	---	7.6	6.9	7.0	8.6	7.6	8.0	7.7	7.1	7.3
8	---	---	---	7.4	6.9	7.0	8.2	7.5	7.9	7.8	7.0	7.2
9	---	---	---	7.3	6.9	7.0	7.7	7.4	7.5	8.2	6.7	7.1
10	---	---	---	7.6	6.9	7.1	8.3	7.1	7.5	7.9	6.7	7.0
11	7.0	6.3	6.9	7.8	6.9	7.3	8.2	6.9	7.7	8.0	6.7	7.3
12	7.0	6.5	6.7	7.6	7.0	7.4	8.2	7.0	7.6	7.4	6.8	7.0
13	6.9	6.7	6.9	7.9	7.5	7.7	8.2	7.2	7.5	7.3	6.8	7.0
14	7.0	6.7	6.9	8.5	7.8	8.0	7.9	7.3	7.5	7.8	6.8	7.2
15	7.1	6.9	7.0	8.2	7.7	8.0	7.8	7.1	7.4	7.8	7.2	7.6
16	7.1	7.0	7.1	8.8	7.6	8.2	---	---	---	7.7	7.2	7.5
17	7.3	7.1	7.2	8.7	7.7	8.2	---	---	---	7.7	6.9	7.3
18	7.3	7.2	7.3	8.5	8.0	8.2	---	---	---	---	---	---
19	7.4	7.3	7.4	8.9	8.3	8.6	---	---	---	7.8	7.4	7.6
20	---	---	---	8.8	8.1	8.5	---	---	---	7.8	7.2	7.5
21	---	---	---	8.3	7.9	8.1	---	---	---	7.9	7.1	7.3
22	7.6	7.0	7.3	8.1	7.9	8.0	---	---	---	7.9	7.0	7.3
23	7.0	6.7	6.8	8.0	7.8	7.9	---	---	---	7.9	7.1	7.4
24	6.9	6.5	6.7	8.1	7.8	7.9	---	---	---	7.3	6.6	6.7
25	6.8	6.5	6.6	8.3	7.7	7.9	---	---	---	6.7	6.6	6.7
26	6.8	6.6	6.7	8.9	7.8	8.1	---	---	---	6.7	6.6	6.7
27	7.2	6.6	6.9	8.6	7.6	7.9	---	---	---	6.8	6.6	6.7
28	---	---	---	---	---	---	---	---	---	7.1	6.6	6.7
29	7.2	6.8	6.9	---	---	---	---	---	---	---	---	---
30	---	---	---	7.9	7.5	7.7	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	6.9	7.2	7.9	7.2	7.6	7.2	6.8	7.0	---	---	---
2	7.0	6.8	6.9	7.9	7.3	7.5	7.2	7.1	7.2	---	---	---
3	7.8	6.8	7.1	7.4	6.9	7.1	7.2	7.0	7.1	---	---	---
4	7.7	7.3	7.4	7.3	6.9	7.0	7.2	7.1	7.2	---	---	---
5	7.5	7.0	7.3	7.3	6.9	7.0	7.2	7.1	7.2	---	---	---
6	8.1	6.9	7.3	7.5	6.8	7.2	7.2	7.0	7.1	---	---	---
7	8.0	7.5	7.8	8.3	7.4	8.0	7.1	7.0	7.1	---	---	---
8	7.9	6.9	7.2	8.4	7.9	8.2	7.2	7.0	7.1	---	---	---
9	7.1	6.9	7.0	8.0	7.4	7.7	7.1	6.9	7.0	7.9	6.9	7.1
10	6.9	6.8	6.9	7.7	7.2	7.5	7.3	7.0	7.2	7.8	6.8	7.2
11	6.9	6.8	6.8	8.0	7.1	7.6	7.3	7.1	7.2	8.4	6.9	7.6
12	6.8	6.6	6.8	8.0	7.1	7.6	7.2	7.1	7.2	8.3	7.0	7.6
13	6.9	6.6	6.7	8.2	7.6	8.0	7.3	6.9	7.1	7.5	6.6	7.1
14	7.0	6.7	6.8	8.1	7.7	7.9	---	---	---	7.1	6.6	6.8
15	7.1	6.8	6.9	---	---	---	---	---	---	---	---	---
16	7.1	6.8	6.9	7.9	7.0	7.4	---	---	---	---	---	---
17	---	---	---	7.9	7.0	7.2	7.6	6.9	7.2	---	---	---
18	7.5	7.1	7.2	7.6	7.0	7.1	7.4	6.9	7.1	---	---	---
19	7.5	7.1	7.2	7.6	7.0	7.2	8.1	6.9	7.5	---	---	---
20	7.8	7.2	7.4	8.2	7.0	7.5	8.2	7.7	8.0	---	---	---
21	8.3	7.3	7.7	8.0	7.0	7.4	8.1	7.6	7.8	---	---	---
22	7.5	7.0	7.3	8.4	7.5	7.9	7.9	7.6	7.8	---	---	---
23	7.6	6.9	7.2	8.5	7.6	8.1	7.6	6.9	7.2	---	---	---
24	7.2	6.8	7.0	8.2	7.5	7.9	7.1	6.8	6.9	---	---	---
25	7.6	6.8	7.1	8.3	7.8	8.1	7.0	6.8	6.8	---	---	---
26	7.8	6.7	7.2	8.1	7.7	7.9	---	---	---	---	---	---
27	7.3	6.7	7.0	8.0	7.4	7.7	---	---	---	---	---	---
28	7.4	6.7	7.0	7.5	7.0	7.3	---	---	---	---	---	---
29	7.5	6.8	7.0	7.4	6.9	7.0	---	---	---	7.9	7.0	7.5
30	7.6	6.8	7.2	6.9	6.8	6.9	---	---	---	7.8	7.3	7.5
31	---	---	---	7.0	6.8	6.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	---	---	---	---	---	---	12.7	10.8	11.5	---	---	---
2	---	---	---	---	---	---	10.9	8.8	9.6	---	---	---
3	---	---	---	---	---	---	9.5	8.5	9.0	---	---	---
4	---	---	---	---	---	---	9.9	8.8	9.4	---	---	---
5	---	---	---	---	---	---	10.9	9.4	10.1	11.4	10.6	11.0
6	---	---	---	---	---	---	12.2	10.6	11.3	10.8	10.1	10.4
7	21.2	20.2	20.7	---	---	---	11.9	10.9	11.3	10.7	10.0	10.4
8	21.2	19.9	20.5	---	---	---	12.5	10.5	11.0	11.6	9.4	10.4
9	23.2	20.0	21.3	---	---	---	12.9	10.1	11.4	11.1	10.1	10.5
10	22.0	20.9	21.6	---	---	---	12.2	11.6	11.9	11.3	10.7	11.1
11	21.9	21.0	21.3	---	---	---	12.2	11.3	11.8	11.4	10.6	11.0
12	21.5	20.9	21.2	---	---	---	11.9	10.4	11.0	11.6	10.2	11.0
13	21.5	20.4	20.9	---	---	---	12.0	10.9	11.5	12.0	10.8	11.4
14	21.0	20.6	20.8	---	---	---	13.3	12.0	12.7	11.2	8.9	10.0
15	20.7	20.0	20.4	---	---	---	13.7	12.2	12.7	9.0	8.0	8.5
16	20.9	19.9	20.3	---	---	---	12.4	11.3	12.0	9.1	7.8	8.5
17	---	---	---	13.7	12.6	13.0	11.9	10.7	11.2	8.8	7.4	8.2
18	---	---	---	14.1	12.4	13.0	11.0	10.3	10.6	7.4	6.1	6.7
19	---	---	---	14.9	12.8	13.6	11.0	10.6	10.8	6.2	5.3	5.9
20	---	---	---	15.5	13.4	14.1	12.1	11.0	11.5	6.1	5.6	5.8
21	---	---	---	14.8	13.7	14.0	12.8	11.6	12.0	5.7	4.3	5.1
22	---	---	---	15.8	13.8	14.6	---	---	---	4.3	3.3	3.7
23	---	---	---	17.6	14.6	15.5	---	---	---	3.6	3.4	3.5
24	---	---	---	16.5	15.1	15.8	---	---	---	3.8	3.6	3.7
25	---	---	---	17.8	16.2	16.7	---	---	---	4.3	3.2	3.6
26	---	---	---	17.3	16.6	17.0	---	---	---	3.5	3.0	3.3
27	---	---	---	17.3	16.8	17.1	---	---	---	3.1	2.5	2.8
28	---	---	---	16.9	16.3	16.5	---	---	---	2.5	1.8	2.1
29	---	---	---	16.3	15.4	16.0	---	---	---	2.5	1.6	2.0
30	---	---	---	15.4	12.7	14.3	---	---	---	3.0	2.1	2.4
31	---	---	---	---	---	---	---	---	---	3.4	2.5	3.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.7	2.6	3.2	14.5	13.4	14.0	16.3	15.0	15.7	---	---	---
2	3.7	2.9	3.3	14.7	13.4	14.0	17.2	15.6	16.4	---	---	---
3	4.3	2.8	3.6	14.1	13.3	13.7	---	---	---	---	---	---
4	6.6	3.5	4.7	13.6	12.6	13.1	18.7	17.8	18.3	21.0	19.0	20.0
5	5.4	4.8	5.1	13.5	12.1	12.8	17.8	16.0	16.8	23.5	19.9	21.0
6	5.4	4.6	5.0	14.1	12.5	13.3	17.1	15.4	16.1	24.3	20.5	22.0
7	6.0	4.9	5.5	15.5	13.2	14.1	18.4	16.0	17.0	26.1	21.7	23.1
8	6.4	5.0	5.9	18.7	13.2	14.6	18.4	16.9	17.5	23.6	21.2	22.3
9	6.3	6.0	6.1	15.7	14.2	15.2	17.5	15.4	16.3	23.2	21.4	22.3
10	9.4	6.2	6.9	19.6	14.3	16.6	18.7	14.9	16.2	24.3	22.3	23.1
11	8.1	6.7	7.5	17.6	16.5	17.1	17.3	15.9	16.6	25.6	22.1	23.6
12	8.4	7.2	7.9	17.4	14.8	16.5	18.0	16.7	17.4	25.7	23.3	24.1
13	7.8	6.9	7.3	15.7	14.2	14.8	17.6	15.7	16.3	26.8	23.3	24.5
14	8.8	7.4	8.2	15.7	13.9	14.5	16.0	15.2	15.6	25.4	24.1	24.7
15	10.0	8.3	8.9	16.8	14.0	15.1	16.9	15.8	16.3	24.4	23.5	23.9
16	9.5	8.5	9.0	16.8	15.5	16.0	---	---	---	24.0	23.0	23.4
17	9.5	9.1	9.2	17.2	15.9	16.7	---	---	---	23.8	22.8	23.3
18	9.6	8.9	9.2	15.9	14.6	15.1	---	---	---	---	---	---
19	11.5	9.6	10.6	14.8	14.2	14.5	---	---	---	24.7	22.8	23.7
20	11.7	10.7	11.1	14.6	14.4	14.5	---	---	---	25.7	23.5	24.4
21	11.7	10.7	11.2	15.0	14.3	14.6	---	---	---	27.5	24.0	25.1
22	11.6	10.4	10.9	14.5	13.2	13.8	---	---	---	25.5	24.4	24.9
23	13.0	10.7	11.2	13.5	12.9	13.1	---	---	---	25.8	23.8	24.6
24	14.7	11.3	12.2	14.2	12.5	13.3	---	---	---	25.8	24.5	25.1
25	14.5	12.0	12.8	16.1	13.5	14.4	---	---	---	27.5	25.0	25.9
26	16.6	12.6	13.5	16.0	13.7	14.9	---	---	---	28.5	25.5	26.5
27	14.1	13.4	13.8	15.9	15.2	15.6	---	---	---	27.9	26.0	26.8
28	14.6	13.8	14.1	---	---	---	---	---	---	27.8	26.0	26.5
29	14.8	13.6	14.1	---	---	---	---	---	---	---	---	---
30	---	---	---	15.5	15.0	15.3	---	---	---	---	---	---
31	---	---	---	16.3	14.9	15.5	---	---	---	---	---	---
MONTH	16.6	2.6	8.7	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	26.7	21.4	22.8	27.6	26.4	26.9	29.7	27.5	28.3	---	---	---
2	28.7	22.4	24.4	29.0	26.2	27.1	29.8	27.9	28.8	---	---	---
3	26.5	21.9	23.6	28.2	25.5	27.0	29.6	28.3	28.9	---	---	---
4	24.5	23.6	24.1	28.0	26.0	27.0	28.6	26.9	27.6	---	---	---
5	25.0	23.9	24.3	30.4	26.4	27.5	28.6	26.2	27.2	---	---	---
6	24.7	23.6	24.3	28.0	26.9	27.5	29.9	27.1	28.0	---	---	---
7	24.0	22.9	23.4	28.3	26.7	27.5	29.8	27.1	27.8	---	---	---
8	27.0	23.3	24.3	30.0	26.4	27.5	29.9	27.3	27.9	---	---	---
9	27.1	24.0	24.7	27.6	26.7	27.1	30.4	27.8	28.6	25.4	23.6	24.5
10	26.7	23.8	24.6	28.2	25.9	26.9	30.0	27.5	28.6	25.7	23.9	24.8
11	26.6	23.7	24.7	28.5	26.6	27.6	29.5	27.5	28.3	26.5	24.7	25.4
12	26.8	23.1	24.4	28.2	27.5	27.9	28.3	26.7	27.5	27.2	25.1	26.0
13	27.1	23.7	24.6	27.7	27.2	27.4	27.8	26.5	27.1	28.7	25.9	26.8
14	29.1	23.8	25.4	28.8	26.5	27.4	---	---	---	28.8	26.6	27.6
15	28.1	24.8	26.3	---	---	---	---	---	---	---	---	---
16	27.9	25.9	26.9	29.5	26.9	27.9	---	---	---	---	---	---
17	---	---	---	29.8	27.5	28.4	28.1	26.4	27.3	---	---	---
18	28.4	25.9	26.8	30.4	28.3	29.2	28.4	26.9	27.5	---	---	---
19	28.1	26.4	27.1	29.7	28.1	28.8	28.0	26.8	27.3	---	---	---
20	27.4	26.1	26.8	29.6	27.7	28.5	27.0	26.1	26.6	---	---	---
21	29.8	26.2	27.6	28.8	27.5	27.9	26.6	25.4	26.0	---	---	---
22	28.2	26.0	27.2	28.8	26.9	27.5	26.9	24.8	25.6	---	---	---
23	31.2	26.5	27.7	28.3	27.2	27.7	26.5	25.1	25.9	---	---	---
24	30.2	27.1	28.4	27.6	26.9	27.1	27.7	25.3	26.4	---	---	---
25	29.3	27.7	28.3	26.9	25.8	26.2	27.6	26.3	26.7	---	---	---
26	29.2	27.6	28.3	26.7	25.5	26.1	---	---	---	---	---	---
27	29.1	27.5	28.3	28.2	25.8	26.8	---	---	---	---	---	---
28	29.2	27.4	28.1	28.4	26.4	27.1	---	---	---	---	---	---
29	28.3	27.2	27.6	28.9	26.9	27.8	---	---	---	21.8	21.0	21.5
30	28.0	26.6	27.3	29.0	27.2	28.1	---	---	---	21.8	21.0	21.5
31	---	---	---	28.8	27.8	28.2	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	---	---	---	---	---	---	12.7	10.9	11.6	---	---	---
2	---	---	---	---	---	---	10.9	9.4	9.8	---	---	---
3	---	---	---	---	---	---	10.0	9.4	9.8	---	---	---
4	---	---	---	---	---	---	10.1	9.0	9.8	---	---	---
5	---	---	---	---	---	---	10.6	9.7	10.0	11.5	10.7	11.1
6	---	---	---	---	---	---	12.1	10.4	11.3	10.8	10.1	10.4
7	21.1	20.3	20.7	---	---	---	12.0	11.0	11.4	10.6	10.1	10.4
8	20.8	19.9	20.3	---	---	---	11.5	10.9	11.2	11.1	9.9	10.4
9	20.6	20.0	20.2	---	---	---	11.5	11.3	11.3	11.1	9.9	10.4
10	21.5	20.2	20.6	15.8	14.9	15.3	12.2	11.2	11.6	11.3	10.1	10.9
11	21.5	20.9	21.1	16.0	15.4	15.6	12.2	11.5	11.9	11.4	10.8	11.1
12	21.6	21.0	21.2	16.1	15.6	15.9	12.0	11.7	11.9	---	---	---
13	21.2	20.5	20.7	15.9	15.4	15.6	12.1	11.6	11.9	12.1	11.0	11.5
14	21.1	20.6	20.8	16.5	15.7	16.2	12.9	12.1	12.3	11.3	9.0	10.1
15	20.8	20.0	20.4	16.3	15.1	15.8	12.2	12.0	12.1	9.6	8.3	8.8
16	20.6	20.0	20.3	15.2	13.7	14.4	12.1	12.0	12.0	9.3	8.6	9.1
17	---	---	---	13.8	12.7	13.0	12.1	11.5	12.0	8.8	7.5	8.3
18	---	---	---	13.1	12.4	12.7	12.0	11.3	11.7	---	---	---
19	---	---	---	13.4	12.7	13.1	11.7	10.7	10.9	6.5	5.9	6.1
20	---	---	---	13.3	12.8	13.0	11.8	11.0	11.3	6.5	5.8	6.1
21	---	---	---	14.1	12.8	13.4	12.1	11.5	11.8	5.8	4.6	5.2
22	---	---	---	15.2	13.8	14.1	---	---	---	5.0	3.7	4.3
23	---	---	---	15.4	14.7	15.1	---	---	---	4.1	3.5	3.7
24	---	---	---	15.9	14.6	15.4	---	---	---	3.9	3.7	3.8
25	---	---	---	17.0	15.6	16.4	---	---	---	4.4	3.3	3.7
26	---	---	---	17.3	16.6	17.0	---	---	---	4.1	3.2	3.5
27	---	---	---	17.3	16.8	17.2	---	---	---	3.3	2.6	2.9
28	---	---	---	16.8	16.3	16.5	---	---	---	2.8	1.9	2.3
29	---	---	---	16.3	15.5	16.0	---	---	---	2.6	1.7	2.2
30	---	---	---	15.5	12.7	14.3	---	---	---	3.0	2.1	2.4
31	---	---	---	---	---	---	---	---	---	3.5	2.6	3.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	3.8	2.9	3.4	11.3	10.6	10.8	---	---	---	---	---	---
2	3.8	3.0	3.4	13.3	10.6	11.0	17.3	15.7	16.4	---	---	---
3	4.3	3.3	3.8	13.7	10.9	11.5	---	---	---	---	---	---
4	5.2	4.1	4.4	13.0	11.0	11.9	18.8	17.9	18.4	21.0	19.2	19.9
5	5.3	4.8	5.0	12.7	11.2	11.7	17.9	16.3	16.8	20.7	19.6	20.3
6	5.4	4.5	4.9	12.6	11.3	11.6	17.2	15.5	16.2	20.8	19.6	20.2
7	6.0	5.1	5.4	13.7	11.4	12.3	18.1	16.1	16.8	20.2	19.4	19.7
8	6.4	5.3	6.0	13.6	11.8	12.3	18.5	16.9	17.6	22.4	19.4	20.1
9	6.3	6.1	6.2	15.4	11.8	12.6	17.6	15.8	16.4	23.0	19.7	20.9
10	6.5	5.7	6.2	14.8	12.4	13.7	17.2	15.0	15.9	23.9	19.8	21.1
11	7.3	5.7	6.3	17.6	13.1	15.2	17.3	16.0	16.6	23.5	20.7	22.0
12	8.4	7.2	7.8	17.1	13.9	15.8	17.8	16.8	17.1	22.6	20.7	21.6
13	7.4	7.1	7.2	15.3	14.2	14.7	17.7	15.8	16.4	22.6	20.8	21.6
14	8.8	7.3	8.1	15.1	13.8	14.3	16.0	15.2	15.7	24.4	20.9	22.9
15	9.0	8.3	8.6	14.5	14.0	14.2	16.6	15.9	16.1	24.2	23.5	23.9
16	9.5	8.6	9.1	16.7	14.3	15.4	---	---	---	23.8	22.9	23.3
17	9.5	9.1	9.3	17.1	15.9	16.6	---	---	---	23.6	22.4	23.1
18	9.6	8.9	9.1	15.9	14.7	15.1	---	---	---	---	---	---
19	11.5	9.2	10.6	14.8	14.2	14.5	---	---	---	24.6	22.8	23.4
20	---	---	---	14.6	14.4	14.5	---	---	---	24.5	23.3	23.6
21	---	---	---	14.8	14.3	14.5	---	---	---	25.4	23.0	23.7
22	11.4	10.4	10.9	14.4	13.2	13.7	---	---	---	25.1	23.2	24.0
23	11.2	10.6	10.8	13.4	12.9	13.1	---	---	---	25.3	23.5	24.2
24	11.7	10.9	11.0	13.6	12.6	13.1	---	---	---	24.9	23.3	23.7
25	12.3	10.9	11.4	14.4	13.3	13.7	---	---	---	23.8	23.5	23.6
26	13.1	10.9	12.1	15.1	13.6	14.0	---	---	---	24.7	23.5	23.8
27	14.1	11.5	13.2	15.8	13.8	14.6	---	---	---	25.9	23.7	24.2
28	---	---	---	---	---	---	---	---	---	26.2	23.5	24.2
29	14.1	10.6	11.9	---	---	---	---	---	---	---	---	---
30	---	---	---	15.5	15.4	15.5	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.4	21.2	22.0	28.5	26.6	27.3	26.9	26.5	26.6	---	---	---
2	22.2	21.5	21.9	27.2	25.9	26.6	27.2	26.6	26.7	---	---	---
3	24.1	21.6	22.6	27.2	26.6	26.9	27.2	26.5	26.7	---	---	---
4	24.2	23.3	23.7	27.5	26.5	27.0	26.7	26.5	26.6	---	---	---
5	24.1	23.4	23.7	27.4	26.4	26.9	27.0	26.7	26.9	---	---	---
6	24.6	23.2	23.7	27.5	26.8	27.0	27.0	26.7	26.9	---	---	---
7	23.8	22.9	23.4	28.0	27.1	27.4	27.0	26.7	26.8	---	---	---
8	23.5	23.0	23.1	27.7	26.5	27.0	27.1	26.8	26.9	---	---	---
9	23.4	23.0	23.2	27.4	26.8	27.0	27.0	26.7	26.8	25.0	24.1	24.3
10	23.4	23.0	23.2	27.6	26.0	26.6	27.0	26.8	26.8	24.9	24.1	24.5
11	23.3	23.1	23.1	27.9	26.9	27.2	27.2	26.8	26.9	25.9	24.5	25.0
12	23.3	22.9	23.2	28.1	26.9	27.7	27.1	26.8	27.0	26.4	24.9	25.4
13	23.8	23.0	23.3	27.7	27.1	27.4	27.6	27.1	27.2	26.4	25.2	25.8
14	23.8	23.0	23.3	27.2	26.6	26.9	---	---	---	25.9	25.3	25.6
15	25.4	23.0	23.5	---	---	---	---	---	---	---	---	---
16	25.3	23.1	23.7	27.3	26.7	27.1	---	---	---	---	---	---
17	---	---	---	27.5	26.8	27.0	27.7	26.5	27.0	---	---	---
18	26.4	24.0	24.6	27.6	26.8	27.0	27.7	26.9	27.3	---	---	---
19	26.4	24.2	24.7	28.3	26.8	27.5	28.1	26.7	27.4	---	---	---
20	27.1	24.3	25.8	29.2	26.9	27.8	28.1	26.2	26.9	---	---	---
21	27.1	26.1	26.9	28.0	26.9	27.4	26.8	25.8	26.2	---	---	---
22	27.5	26.0	26.7	28.1	26.8	27.3	26.5	25.6	26.0	---	---	---
23	27.3	26.1	26.8	28.1	27.2	27.7	26.4	25.8	26.1	---	---	---
24	27.3	26.6	26.9	28.1	26.8	27.7	26.5	26.0	26.2	---	---	---
25	28.4	26.8	27.6	27.2	26.1	26.4	26.6	26.1	26.3	---	---	---
26	29.1	27.3	27.9	26.4	26.2	26.3	---	---	---	---	---	---
27	28.8	26.9	27.9	26.6	26.3	26.5	---	---	---	---	---	---
28	28.1	26.4	27.3	26.6	26.5	26.6	---	---	---	---	---	---
29	27.9	26.9	27.3	26.6	26.5	26.5	---	---	---	22.7	21.0	21.6
30	28.6	26.6	27.3	26.8	26.5	26.5	---	---	---	22.2	21.2	21.5
31	---	---	---	26.7	26.5	26.6	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	---	---	---	---	---	---	11.1	10.6	10.9	---	---	---
2	---	---	---	---	---	---	12.5	11.0	11.6	---	---	---
3	---	---	---	---	---	---	12.4	11.5	12.0	---	---	---
4	---	---	---	---	---	---	12.3	11.8	12.1	---	---	---
5	---	---	---	---	---	---	12.8	11.8	12.3	12.2	11.2	11.5
6	---	---	---	---	---	---	12.3	11.5	11.9	12.4	11.3	12.0
7	4.2	2.9	3.5	---	---	---	12.1	9.8	11.4	13.0	12.2	12.5
8	4.8	3.7	4.3	---	---	---	13.2	11.2	12.0	15.5	12.7	13.8
9	4.1	3.2	3.7	---	---	---	13.5	11.8	12.5	14.6	13.2	13.8
10	4.1	3.4	3.8	8.3	7.4	7.8	13.2	10.1	12.5	14.1	11.2	12.8
11	4.2	3.2	3.6	9.0	7.9	8.4	12.2	11.2	11.7	12.3	11.3	11.7
12	6.2	3.8	4.9	9.0	8.5	8.8	13.8	11.4	12.3	13.7	11.6	12.4
13	5.6	4.3	4.9	9.5	8.9	9.1	12.6	11.9	12.3	12.8	11.5	11.9
14	6.0	4.3	5.4	9.3	8.7	9.0	14.2	8.7	11.9	12.3	11.7	12.0
15	6.7	5.8	6.3	9.0	8.4	8.7	12.6	11.1	11.6	14.4	12.3	13.1
16	6.7	5.9	6.4	9.3	8.5	8.9	13.0	8.9	11.1	13.4	12.8	13.1
17	---	---	---	9.7	9.2	9.5	13.6	8.9	11.5	13.3	12.6	13.0
18	---	---	---	9.9	9.5	9.6	12.5	10.9	11.7	14.0	13.1	13.5
19	---	---	---	10.7	9.8	10.2	12.3	11.5	11.8	14.8	13.5	14.1
20	---	---	---	12.5	9.8	10.5	12.2	11.3	11.7	14.8	13.9	14.3
21	---	---	---	10.7	8.8	9.7	12.3	11.3	11.7	14.6	13.9	14.2
22	---	---	---	9.5	8.4	8.9	---	---	---	15.5	14.6	15.1
23	---	---	---	12.8	8.8	10.0	---	---	---	15.7	15.2	15.5
24	---	---	---	10.4	8.9	9.7	---	---	---	15.6	15.0	15.4
25	---	---	---	12.1	9.8	10.6	---	---	---	15.1	14.4	14.9
26	---	---	---	12.0	9.9	10.3	---	---	---	15.4	14.8	15.1
27	---	---	---	10.3	9.5	10.0	---	---	---	16.1	15.4	15.8
28	---	---	---	10.9	9.6	10.2	---	---	---	16.4	16.1	16.3
29	---	---	---	11.1	9.4	10.4	---	---	---	16.5	15.9	16.2
30	---	---	---	11.1	10.2	10.5	---	---	---	16.2	15.6	16.0
31	---	---	---	---	---	---	---	---	---	16.1	15.4	15.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	15.8	15.4	15.6	11.0	10.1	10.5	13.9	12.0	13.0	---	---	---
2	16.0	15.3	15.8	10.3	8.7	9.8	13.8	10.9	12.5	---	---	---
3	15.7	15.0	15.3	10.2	9.6	10.0	---	---	---	---	---	---
4	15.0	13.7	14.3	10.8	9.6	10.2	13.3	11.3	12.1	10.4	8.5	9.5
5	14.2	13.7	14.0	11.4	10.2	10.7	14.1	9.6	12.1	11.2	8.7	9.5
6	14.4	13.8	14.2	11.7	10.4	11.0	15.8	10.8	12.7	12.0	8.7	9.9
7	13.9	13.2	13.5	12.0	10.9	11.4	15.1	11.2	13.3	11.9	8.8	9.9
8	13.6	13.2	13.4	11.3	8.9	10.1	14.7	11.6	12.6	10.5	7.4	8.6
9	13.5	13.1	13.3	10.9	8.0	10.1	13.1	10.4	11.8	9.6	7.3	8.5
10	13.5	12.5	13.0	11.8	8.1	10.2	15.4	8.0	12.9	9.6	7.5	8.5
11	12.7	12.2	12.5	10.5	9.2	9.9	14.5	11.9	13.2	10.7	8.1	9.2
12	12.9	12.1	12.4	9.6	8.8	9.1	15.3	11.9	12.8	10.8	8.1	9.5
13	12.9	12.4	12.6	10.4	9.1	9.8	13.3	10.5	11.6	10.7	7.5	8.9
14	13.4	11.6	12.2	11.6	9.8	10.4	13.4	8.3	12.0	9.3	7.5	8.1
15	12.7	11.6	11.8	12.6	10.0	11.3	13.4	10.4	11.8	8.0	7.0	7.6
16	11.8	11.4	11.7	12.2	10.6	11.3	---	---	---	8.1	6.9	7.5
17	12.9	10.1	11.5	---	---	---	---	---	---	8.4	7.2	7.6
18	11.9	10.2	11.2	---	---	---	---	---	---	---	---	---
19	12.6	9.2	11.0	---	---	---	---	---	---	8.4	7.2	7.6
20	11.5	10.6	10.7	---	---	---	---	---	---	8.2	7.0	7.6
21	10.9	10.6	10.7	---	---	---	---	---	---	9.1	7.1	7.8
22	12.6	10.1	10.7	---	---	---	---	---	---	8.4	7.3	7.8
23	10.6	10.1	10.3	---	---	---	---	---	---	---	---	---
24	11.6	10.4	10.9	---	---	---	---	---	---	8.8	7.3	8.0
25	11.6	10.4	10.8	---	---	---	---	---	---	8.7	7.7	8.1
26	12.1	10.2	10.9	---	---	---	---	---	---	8.7	7.1	7.9
27	11.1	10.3	10.8	---	---	---	---	---	---	8.9	7.4	8.0
28	10.5	9.9	10.1	---	---	---	---	---	---	8.2	6.1	6.8
29	10.7	10.0	10.3	---	---	---	---	---	---	---	---	---
30	---	---	---	12.8	10.6	11.9	---	---	---	---	---	---
31	---	---	---	14.5	11.9	13.0	---	---	---	---	---	---
MONTH	16.0	9.2	12.3	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	11.4	7.4	9.5	7.3	5.8	6.6	8.2	4.2	6.2	---	---	---
2	11.5	8.0	9.8	8.6	5.5	7.1	8.5	5.7	7.1	---	---	---
3	10.5	6.9	8.3	8.2	5.3	7.2	8.9	6.1	7.3	---	---	---
4	8.4	7.1	7.7	6.9	4.6	5.8	7.4	3.5	6.3	---	---	---
5	9.7	7.3	8.2	8.2	5.0	6.2	8.9	1.9	5.8	---	---	---
6	8.9	7.8	8.4	8.8	5.7	6.7	8.8	5.0	6.6	---	---	---
7	9.1	7.2	8.0	8.5	6.3	7.5	8.1	1.6	4.7	---	---	---
8	11.2	7.8	9.0	9.4	7.0	7.8	6.5	2.4	4.4	---	---	---
9	10.8	8.1	9.1	7.9	3.6	6.5	7.5	4.1	5.6	10.4	6.9	8.2
10	9.4	6.6	8.3	7.0	2.2	4.4	8.9	2.0	6.2	10.6	7.2	8.6
11	8.5	3.9	7.0	6.9	4.9	5.8	7.8	.2	3.8	9.7	8.3	8.9
12	6.8	3.8	5.4	7.5	6.2	6.7	5.1	1.2	3.6	10.9	7.3	8.8
13	7.1	3.1	5.1	8.5	5.2	6.7	5.0	3.6	4.3	11.9	8.5	9.5
14	7.9	3.7	5.7	9.6	6.8	7.8	---	---	---	12.2	8.6	9.9
15	7.7	4.2	6.4	---	---	---	---	---	---	---	---	---
16	7.0	4.4	6.0	8.9	6.8	8.0	---	---	---	---	---	---
17	---	---	---	9.4	7.2	8.1	7.6	4.5	6.1	---	---	---
18	7.4	5.1	6.0	9.2	5.6	7.9	8.4	4.9	6.4	---	---	---
19	8.0	5.5	6.4	7.1	2.9	5.3	8.8	4.7	6.8	---	---	---
20	---	---	---	8.2	4.2	6.0	9.3	7.6	8.4	---	---	---
21	---	---	---	7.3	6.3	6.8	8.7	7.4	8.1	---	---	---
22	7.2	3.7	5.4	9.3	5.9	6.9	9.8	7.4	8.3	---	---	---
23	10.4	5.9	7.5	8.5	7.2	7.8	10.1	7.0	8.1	---	---	---
24	8.7	6.7	7.6	7.9	5.7	6.8	9.6	5.5	7.3	---	---	---
25	8.4	6.1	7.1	6.9	6.1	6.4	9.3	5.8	7.3	---	---	---
26	7.4	6.2	6.7	7.9	5.9	6.7	---	---	---	---	---	---
27	6.8	5.7	6.3	8.6	7.0	7.8	---	---	---	---	---	---
28	7.1	4.4	5.9	10.0	5.7	7.7	---	---	---	---	---	---
29	6.4	4.9	5.7	8.6	5.4	6.9	---	---	---	8.7	7.3	7.9
30	8.1	5.4	6.3	8.1	3.0	6.2	---	---	---	8.5	7.4	8.0
31	---	---	---	7.5	5.3	6.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	---	---	---	---	---	---	10.8	10.3	10.6	---	---	---
2	---	---	---	---	---	---	11.7	10.7	11.2	---	---	---
3	---	---	---	---	---	---	11.6	10.9	11.2	---	---	---
4	---	---	---	---	---	---	11.9	10.6	11.3	---	---	---
5	---	---	---	---	---	---	12.0	10.0	11.4	10.3	9.2	9.9
6	---	---	---	---	---	---	11.4	10.8	11.2	10.3	8.9	9.9
7	4.2	3.2	3.6	---	---	---	11.2	10.4	10.9	10.6	8.9	10.0
8	4.6	3.7	4.2	---	---	---	11.2	9.2	10.3	12.5	6.3	10.0
9	3.9	2.8	3.3	---	---	---	10.3	8.8	9.7	12.4	5.9	9.7
10	3.8	2.6	3.1	7.7	6.9	7.3	11.8	8.5	10.3	11.2	5.8	8.9
11	3.9	3.1	3.4	8.1	7.6	7.8	11.6	8.2	10.6	10.8	8.6	10.0
12	5.8	3.5	4.7	8.5	8.0	8.3	10.8	7.4	8.4	---	---	---
13	5.3	4.1	4.6	8.6	8.3	8.4	---	---	---	10.8	9.2	10.2
14	5.5	4.3	4.9	8.7	5.7	8.3	---	---	---	10.8	10.0	10.6
15	6.0	5.4	5.7	8.6	7.8	8.3	---	---	---	11.1	9.3	10.3
16	5.9	5.3	5.7	8.9	8.3	8.6	---	---	---	11.9	10.4	11.1
17	---	---	---	9.4	8.9	9.2	---	---	---	11.7	10.8	11.2
18	---	---	---	9.3	8.9	9.1	---	---	---	---	---	---
19	---	---	---	9.0	8.3	8.7	---	---	---	11.9	9.9	11.3
20	---	---	---	9.1	8.1	8.6	---	---	---	12.5	9.7	11.6
21	---	---	---	9.6	8.0	8.6	---	---	---	12.4	11.6	11.8
22	---	---	---	10.5	8.1	8.6	---	---	---	12.3	10.9	11.8
23	---	---	---	10.5	8.7	9.9	---	---	---	13.0	11.1	12.2
24	---	---	---	10.3	8.1	9.4	---	---	---	12.8	12.1	12.6
25	---	---	---	10.4	9.3	10.1	---	---	---	12.6	11.9	12.4
26	---	---	---	10.2	9.4	9.8	---	---	---	12.6	11.8	12.3
27	---	---	---	9.9	9.4	9.6	---	---	---	13.0	12.2	12.6
28	---	---	---	10.1	9.3	9.7	---	---	---	13.2	12.0	12.6
29	---	---	---	10.4	9.7	9.9	---	---	---	13.3	11.5	12.5
30	---	---	---	10.5	9.7	10.2	---	---	---	13.2	11.6	12.7
31	---	---	---	---	---	---	---	---	---	13.1	12.0	12.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	13.2	11.4	12.5	6.5	5.9	6.2	---	---	---	---	---	---
2	13.4	12.2	13.0	6.4	4.7	5.6	11.1	9.9	10.6	---	---	---
3	13.2	11.4	12.6	8.2	4.1	4.8	---	---	---	---	---	---
4	12.6	10.4	11.8	8.7	3.8	5.5	9.9	9.4	9.6	11.5	9.7	10.5
5	12.4	11.2	11.8	8.8	1.3	5.5	10.3	9.0	9.7	10.4	6.7	9.4
6	12.6	9.3	11.0	7.3	3.5	4.0	10.9	9.6	10.1	9.3	5.8	7.7
7	12.5	9.2	11.3	9.1	3.2	4.4	11.1	9.7	10.3	7.1	3.3	4.6
8	12.3	7.3	10.6	7.4	2.8	4.1	10.4	9.3	10.0	7.7	2.2	3.8
9	12.0	10.3	11.3	7.7	3.0	4.0	10.1	9.5	9.8	8.9	1.7	4.2
10	12.3	8.6	10.6	8.5	2.8	5.2	11.2	7.6	9.6	8.2	1.7	4.8
11	11.6	8.5	9.2	8.8	3.3	6.1	10.9	7.0	9.9	8.4	2.0	6.1
12	11.5	9.1	11.1	8.4	2.0	7.4	10.9	7.0	9.2	6.8	2.9	4.5
13	11.4	10.9	11.3	---	---	---	10.9	8.7	9.4	6.3	2.2	3.9
14	11.4	10.1	10.9	---	---	---	10.4	9.1	9.7	7.8	1.6	4.9
15	10.8	10.1	10.6	---	---	---	10.3	8.4	9.3	8.3	5.6	7.4
16	10.8	10.4	10.6	---	---	---	---	---	---	8.1	5.7	7.2
17	10.9	10.3	10.6	---	---	---	---	---	---	7.9	2.7	5.9
18	10.7	10.3	10.5	---	---	---	---	---	---	---	---	---
19	10.4	10.1	10.3	---	---	---	---	---	---	7.6	5.7	7.2
20	---	---	---	---	---	---	---	---	---	7.6	4.6	6.6
21	---	---	---	---	---	---	---	---	---	7.6	3.3	5.0
22	10.2	7.8	9.1	---	---	---	---	---	---	7.5	2.7	4.5
23	8.0	7.6	7.8	---	---	---	---	---	---	8.2	2.8	6.2
24	8.2	7.1	7.7	---	---	---	---	---	---	6.9	.4	1.8
25	8.0	7.1	7.5	---	---	---	---	---	---	1.2	.2	.5
26	8.2	7.1	7.7	---	---	---	---	---	---	2.1	.0	.5
27	8.5	6.8	8.0	---	---	---	---	---	---	1.8	.1	.8
28	---	---	---	---	---	---	---	---	---	5.3	.0	.7
29	8.1	3.2	5.2	---	---	---	---	---	---	---	---	---
30	---	---	---	10.6	9.6	10.1	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.3	5.3	6.8	8.2	4.4	6.4	.8	.1	.1	---	---	---
2	5.4	3.8	4.4	8.1	4.2	5.5	.5	.0	.1	---	---	---
3	8.3	3.6	5.4	5.3	2.1	3.6	.2	.0	.0	---	---	---
4	7.9	6.6	7.1	5.9	1.9	3.0	.1	.0	.0	---	---	---
5	7.6	4.4	6.2	7.0	1.9	3.5	.0	.0	.0	---	---	---
6	8.7	3.5	5.8	3.9	.2	1.8	.4	.0	.0	---	---	---
7	8.2	7.4	7.8	8.0	.5	6.0	.0	.0	.0	---	---	---
8	7.8	1.9	4.5	8.1	4.6	6.7	.1	.0	.0	---	---	---
9	4.6	1.5	2.9	5.8	2.6	4.4	.0	.0	.0	8.5	1.8	3.7
10	2.7	.3	1.3	6.0	2.4	4.0	.4	.0	.1	7.2	.4	3.6
11	1.7	.2	.6	6.7	.7	4.5	.1	.1	.1	8.8	1.3	6.4
12	2.0	.1	.5	6.5	.6	4.8	.1	.1	.1	8.5	5.7	7.2
13	3.2	.3	.9	8.6	4.6	6.6	4.2	.1	.4	8.1	1.1	5.5
14	4.2	.5	1.4	7.7	5.4	6.7	---	---	---	5.3	.9	3.3
15	4.5	.5	1.2	---	---	---	---	---	---	---	---	---
16	3.6	.6	1.1	5.6	1.0	3.4	---	---	---	---	---	---
17	---	---	---	5.5	.5	2.2	5.6	.5	3.5	---	---	---
18	6.5	1.8	3.6	3.8	.5	1.2	5.2	.7	2.7	---	---	---
19	6.4	1.7	3.1	4.4	.6	2.0	8.1	1.6	5.2	---	---	---
20	7.0	1.4	3.8	7.2	.3	3.4	8.6	6.0	7.6	---	---	---
21	7.7	3.3	5.7	6.4	.3	2.9	7.6	5.6	6.5	---	---	---
22	5.3	1.0	3.9	8.6	3.6	5.7	6.7	5.5	6.3	---	---	---
23	6.0	1.3	3.6	8.4	3.6	6.2	5.5	2.0	3.6	---	---	---
24	3.4	1.1	2.1	7.2	3.7	5.1	2.8	.8	1.5	---	---	---
25	6.3	.7	2.6	6.8	4.3	6.1	4.3	.1	.8	---	---	---
26	6.0	1.1	3.7	6.0	4.2	5.0	---	---	---	---	---	---
27	5.3	.6	3.2	5.6	3.5	4.3	---	---	---	---	---	---
28	5.8	.8	3.0	3.5	1.2	2.7	---	---	---	---	---	---
29	6.4	1.3	3.2	3.0	.5	1.1	---	---	---	9.3	3.8	8.3
30	6.6	.9	3.7	.8	.1	.2	---	---	---	9.2	7.9	8.6
31	---	---	---	.2	.1	.1	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	---	---	---	---	---	---	102	99	101	---	---	---
2	---	---	---	---	---	---	109	100	103	---	---	---
3	---	---	---	---	---	---	110	101	106	---	---	---
4	---	---	---	---	---	---	109	104	107	---	---	---
5	---	---	---	---	---	---	117	105	110	115	105	108
6	---	---	---	---	---	---	112	107	109	114	105	110
7	47	33	40	---	---	---	112	99	106	120	112	115
8	55	41	49	---	---	---	124	102	110	145	114	126
9	48	35	42	---	---	---	129	106	115	134	120	126
10	48	38	44	83	74	78	123	95	116	130	104	117
11	49	36	41	92	81	85	115	105	109	115	104	110
12	70	44	56	91	86	88	128	105	113	128	106	115
13	63	49	56	100	89	93	117	109	114	120	106	110
14	68	49	60	95	87	91	134	83	113	110	107	109
15	75	66	71	92	85	88	120	104	110	127	107	114
16	76	66	71	90	85	88	125	84	105	120	110	115
17	---	---	---	92	88	90	126	82	107	116	110	114
18	---	---	---	95	89	92	116	101	108	116	111	112
19	---	---	---	105	92	98	115	107	109	120	111	115
20	---	---	---	125	95	103	114	105	110	120	112	116
21	---	---	---	105	86	94	117	106	110	115	112	113
22	---	---	---	94	82	88	---	---	---	118	112	115
23	---	---	---	131	86	100	---	---	---	119	116	117
24	---	---	---	106	88	98	---	---	---	119	116	118
25	---	---	---	124	100	108	---	---	---	116	113	114
26	---	---	---	125	102	105	---	---	---	116	113	115
27	---	---	---	106	99	103	---	---	---	121	116	118
28	---	---	---	112	97	104	---	---	---	120	117	119
29	---	---	---	111	94	105	---	---	---	119	117	118
30	---	---	---	109	98	103	---	---	---	119	116	117
31	---	---	---	---	---	---	---	---	---	119	115	117
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	117	113	116	108	100	103	147	125	136	---	---	---
2	119	114	118	104	86	97	147	114	133	---	---	---
3	116	112	115	102	94	98	---	---	---	---	---	---
4	114	107	110	105	94	100	146	123	133	118	94	106
5	110	107	109	112	98	104	153	103	129	133	97	109
6	113	108	111	116	101	108	169	113	135	141	98	115
7	109	105	107	123	108	114	163	118	143	148	102	116
8	110	105	107	118	90	103	161	125	137	124	85	100
9	109	106	107	113	82	104	137	110	125	114	86	99
10	111	104	107	128	83	108	171	85	138	117	88	101
11	106	102	105	111	98	106	158	126	141	132	97	111
12	108	102	105	100	94	96	168	128	139	133	99	116
13	107	103	105	110	94	102	147	112	125	137	90	109
14	113	100	104	121	100	107	141	87	126	117	94	101
15	110	100	102	133	101	117	142	110	126	99	86	93
16	103	100	102	127	110	118	---	---	---	99	84	92
17	113	89	101	---	---	---	---	---	---	102	88	93
18	105	90	98	---	---	---	---	---	---	---	---	---
19	115	84	99	---	---	---	---	---	---	104	88	94
20	105	97	98	---	---	---	---	---	---	105	87	95
21	102	96	99	---	---	---	---	---	---	117	89	99
22	114	91	97	---	---	---	---	---	---	106	90	98
23	98	91	94	---	---	---	---	---	---	---	---	---
24	111	95	101	---	---	---	---	---	---	113	92	102
25	113	98	102	---	---	---	---	---	---	117	98	105
26	123	96	105	---	---	---	---	---	---	116	93	104
27	107	100	104	---	---	---	---	---	---	122	100	108
28	104	97	99	---	---	---	---	---	---	114	85	92
29	106	97	101	---	---	---	---	---	---	---	---	---
30	---	---	---	134	111	125	---	---	---	---	---	---
31	---	---	---	155	123	136	---	---	---	---	---	---
MONTH	123	84	104	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	142	88	116	98	79	88	112	59	85	---	---	---
2	150	98	122	118	73	95	117	77	96	---	---	---
3	135	86	103	111	72	97	120	82	99	---	---	---
4	105	88	96	94	63	78	98	48	84	---	---	---
5	122	92	102	116	68	86	116	25	76	---	---	---
6	112	98	105	121	78	92	117	65	88	---	---	---
7	115	89	99	118	87	102	109	21	63	---	---	---
8	148	97	114	130	95	107	90	33	60	---	---	---
9	138	101	116	107	49	88	104	56	77	130	83	101
10	124	83	105	98	30	60	123	28	85	133	88	106
11	110	49	89	97	68	81	106	3	52	123	103	112
12	88	47	68	105	86	93	70	17	49	138	90	110
13	93	40	65	118	71	92	69	50	58	149	107	120
14	107	47	75	133	93	107	---	---	---	159	110	127
15	106	56	84	---	---	---	---	---	---	---	---	---
16	92	59	80	124	92	110	---	---	---	---	---	---
17	---	---	---	131	98	113	106	64	85	---	---	---
18	101	69	80	128	79	111	117	67	89	---	---	---
19	109	74	86	98	41	75	121	64	92	---	---	---
20	---	---	---	117	59	85	125	102	113	---	---	---
21	---	---	---	102	87	95	117	97	107	---	---	---
22	96	49	73	128	81	95	130	96	108	---	---	---
23	142	80	102	118	98	107	133	92	106	---	---	---
24	121	91	104	106	77	92	129	73	98	---	---	---
25	116	84	97	92	80	85	126	77	98	---	---	---
26	104	85	92	104	78	88	---	---	---	---	---	---
27	96	79	87	114	91	102	---	---	---	---	---	---
28	99	61	82	133	78	102	---	---	---	---	---	---
29	87	67	78	114	73	92	---	---	---	103	84	93
30	111	74	85	108	41	84	---	---	---	102	88	95
31	---	---	---	101	71	90	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	96	98	---	---	---
2	---	---	---	---	---	---	104	98	101	---	---	---
3	---	---	---	---	---	---	103	98	100	---	---	---
4	---	---	---	---	---	---	108	95	101	---	---	---
5	---	---	---	---	---	---	108	91	102	96	87	92
6	---	---	---	---	---	---	106	98	104	95	82	91
7	47	35	40	---	---	---	104	96	101	98	82	92
8	51	41	47	---	---	---	104	86	95	116	59	92
9	44	31	37	---	---	---	97	83	91	115	55	89
10	44	29	35	77	68	73	111	80	97	101	54	82
11	44	35	39	82	76	78	110	78	100	101	80	94
12	66	40	53	86	80	84	101	70	80	---	---	---
13	60	46	52	86	83	84	---	---	---	101	87	95
14	62	48	55	88	58	84	---	---	---	100	88	96
15	67	61	64	87	79	84	---	---	---	98	84	91
16	66	60	64	86	82	85	---	---	---	106	93	100
17	---	---	---	89	85	87	---	---	---	103	94	98
18	---	---	---	88	83	86	---	---	---	---	---	---
19	---	---	---	86	80	83	---	---	---	99	82	94
20	---	---	---	87	77	81	---	---	---	103	82	96
21	---	---	---	94	76	82	---	---	---	99	94	96
22	---	---	---	104	79	83	---	---	---	96	86	93
23	---	---	---	105	85	99	---	---	---	99	86	94
24	---	---	---	104	80	94	---	---	---	99	93	97
25	---	---	---	106	92	103	---	---	---	98	90	95
26	---	---	---	105	97	101	---	---	---	97	92	95
27	---	---	---	102	96	99	---	---	---	98	92	96
28	---	---	---	102	95	98	---	---	---	98	90	94
29	---	---	---	105	97	100	---	---	---	99	86	93
30	---	---	---	102	96	99	---	---	---	98	85	95
31	---	---	---	---	---	---	---	---	---	100	90	96
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	101	86	95	62	57	59	---	---	---	---	---	---
2	102	93	99	63	46	54	118	106	112	---	---	---
3	101	86	96	81	41	48	---	---	---	---	---	---
4	98	80	92	85	39	55	109	102	105	131	107	117
5	97	88	93	85	14	55	111	96	104	117	74	106
6	100	74	87	72	36	41	116	99	106	106	65	87
7	99	73	90	90	34	45	122	103	110	80	37	51
8	100	60	86	75	30	42	114	100	108	90	24	43
9	98	84	93	80	32	42	108	100	103	106	19	49
10	100	72	87	88	31	54	122	82	102	98	19	56
11	95	71	78	94	35	65	118	76	106	100	23	72
12	98	77	94	90	23	78	119	76	100	82	34	54
13	95	91	94	---	---	---	119	93	101	76	28	47
14	96	87	93	---	---	---	110	96	102	97	20	60
15	94	87	92	---	---	---	108	88	99	102	69	91
16	94	92	93	---	---	---	---	---	---	98	69	88
17	96	91	94	---	---	---	---	---	---	96	33	72
18	94	90	91	---	---	---	---	---	---	---	---	---
19	96	90	93	---	---	---	---	---	---	94	69	88
20	---	---	---	---	---	---	---	---	---	93	57	82
21	---	---	---	---	---	---	---	---	---	96	41	63
22	93	70	82	---	---	---	---	---	---	94	33	57
23	73	69	71	---	---	---	---	---	---	104	37	78
24	75	65	70	---	---	---	---	---	---	87	5	22
25	75	65	69	---	---	---	---	---	---	16	2	7
26	78	64	72	---	---	---	---	---	---	27	0	7
27	84	64	77	---	---	---	---	---	---	23	1	10
28	---	---	---	---	---	---	---	---	---	69	0	9
29	80	32	51	---	---	---	---	---	---	---	---	---
30	---	---	---	111	100	107	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	101	64	83	113	62	87	11	1	2	---	---	---
2	67	47	54	112	57	75	7	0	1	---	---	---
3	103	44	67	71	29	49	3	0	1	---	---	---
4	100	81	88	81	26	41	1	0	0	---	---	---
5	94	54	78	96	26	48	1	0	0	---	---	---
6	109	44	73	53	4	25	6	0	0	---	---	---
7	103	90	97	111	8	83	1	0	0	---	---	---
8	97	24	56	110	62	92	2	0	0	---	---	---
9	58	18	36	80	36	61	0	0	0	107	23	47
10	34	4	17	83	32	54	6	0	2	90	5	45
11	22	3	7	93	10	62	2	1	2	111	16	79
12	25	2	6	90	9	66	2	1	1	107	70	90
13	41	3	11	117	64	90	59	1	6	102	14	69
14	54	6	19	104	73	90	---	---	---	66	12	42
15	59	7	16	---	---	---	---	---	---	---	---	---
16	48	9	15	77	15	47	---	---	---	---	---	---
17	---	---	---	75	8	32	79	7	48	---	---	---
18	87	24	48	54	9	18	72	9	38	---	---	---
19	86	24	42	62	10	29	112	22	72	---	---	---
20	95	20	52	102	4	49	115	84	103	---	---	---
21	104	46	78	89	5	40	101	76	87	---	---	---
22	71	14	53	121	49	79	91	74	85	---	---	---
23	80	18	49	118	50	87	74	27	48	---	---	---
24	47	16	29	98	51	71	38	10	20	---	---	---
25	86	9	36	91	58	82	58	1	11	---	---	---
26	84	15	50	81	57	67	---	---	---	---	---	---
27	74	8	43	75	48	58	---	---	---	---	---	---
28	80	11	42	48	16	36	---	---	---	---	---	---
29	90	18	45	40	7	15	---	---	---	113	48	100
30	90	13	51	10	1	2	---	---	---	111	94	102
31	---	---	---	2	1	1	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9

LOCATION.--Lat. 34°56'54", long. 76°48'36", Craven County, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Light 9.

PERIOD OF RECORD.--May 1989 to July 1993, 1996 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): May 1989 to July 1993, June 1996 to current year

pH (TOP AND BOTTOM): June 1996 to current year.

WATER TEMPERATURE (TOP): May 1989 to July 1993, June 1996 to current year.

WATER TEMPERATURE (BOTTOM): June 1996 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): May 1989 to July 1993, June 1996 to current year.

DISSOLVED OXYGEN (MID): May 1989 to July 1993.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): May 1989 to July 1993, June 1996 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (MID): May 1989 to July 1993.

INSTRUMENTATION.-- Water-quality monitor from May 1989 to July 1993. Constituents monitored were: specific conductance top and bottom, water temperature top and bottom, dissolved oxygen top, mid-depth and bottom. Water-quality monitor with satellite telemetry from June 1996 to current water year. Constituents monitored were the same as previous water years except mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed August 29, 1999 to prevent possible destruction of the equipment during Hurricanes Dennis and Floyd. It was reinstalled on October 5, 1999. Prior to June 1996, top constituents were monitored at 8 ft above streambed, mid constituents at 6 ft above streambed and bottom constituents, 2 ft above streambed. Beginning in June 1996, top constituents were monitored at 8 ft above streambed and bottom constituents, 2 ft above streambed. Salinity and dissolved oxygen, percent saturation are computed. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY(TOP), ppt	20.0, August 17, 2000	<0.1, on several days during the period
SALINITY(BOTTOM), ppt	22.1, August 5, 2000	<0.1, on several days during the period
pH(TOP), standard units	10.4, April 19, 1999	4.3, June 13, 1997
pH(BOTTOM), standard units	9.3, March 12, 13, 14, 16-20, 1999	6.1, October 1, 1998
WATER TEMPERATURE (TOP), °C	32.3, August 6, 1989	0.3, March 14, 1993
WATER TEMPERATURE (BOTTOM), °C	31.4, July 29, 1999	1.8, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	20.7, April 10, 1991	< 1.0, on several days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	16.8, April 26, 1991	< 1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	20.0, August 17	<0.1, on several days during the year
SALINITY (BOTTOM), ppt	22.1, August 5	<0.1, on several days during the year
pH (TOP), standard units	9.4, March 27	6.2, October 5, November 1
pH (BOTTOM), standard units	8.7, April 29, July 20	6.3, October 31, November 1
WATER TEMPERATURE (TOP), °C	31.2, July 18	1.8, January 29
WATER TEMPERATURE (BOTTOM), °C	29.5, July 20	1.8, January 29
DISSOLVED OXYGEN (TOP), mg/L	13.0, December 9, February 20	<1.0, August 2-4, 17
DISSOLVED OXYGEN (BOTTOM), mg/L	13.9, February 10	< 1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	157, September 13	<10, August 2-4
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	126, April 4	< 10, on several days during the year

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	---	---	---	.1	.0	.1	.3	.1	.2	3.8	3.3	3.6
2	---	---	---	.1	.0	.1	.5	.1	.2	3.7	2.6	3.4
3	---	---	---	.1	.0	.1	.7	.3	.5	4.1	2.8	3.4
4	---	---	---	.0	.0	.0	.9	.5	.6	9.3	3.4	6.0
5	---	---	---	.1	.0	.1	1.1	.7	.8	7.8	3.8	5.0
6	.4	.1	.2	.2	.1	.1	2.5	.9	1.2	6.2	4.6	5.3
7	.5	.1	.2	.3	.1	.2	2.9	1.6	2.1	5.7	4.8	5.2
8	.6	.2	.4	.6	.2	.4	---	---	---	5.2	4.8	5.0
9	.4	.1	.2	.4	.2	.3	2.4	1.7	1.9	5.2	4.7	4.9
10	.2	.1	.2	.4	.2	.3	3.7	1.8	2.6	6.5	4.7	5.4
11	.2	.1	.1	.6	.3	.4	3.8	2.6	3.3	6.1	4.7	5.4
12	.7	.1	.3	.6	.4	.5	3.9	2.3	2.6	5.6	4.6	5.1
13	.4	.2	.3	.6	.3	.4	3.4	2.5	2.8	5.9	4.7	5.2
14	.5	.2	.2	.7	.3	.4	5.4	2.7	3.5	5.9	3.7	4.5
15	.9	.2	.6	1.5	.5	.9	3.9	2.9	3.3	3.8	3.2	3.5
16	.8	.3	.5	1.8	.6	1.3	5.2	2.7	3.3	4.9	3.3	4.1
17	.7	.3	.4	1.8	.4	.9	4.7	3.6	4.2	5.2	4.5	4.9
18	.4	.1	.2	1.1	.4	.8	4.4	3.6	4.1	4.9	3.9	4.3
19	.2	.0	.1	1.4	.7	.9	4.9	4.3	4.5	4.0	3.5	3.8
20	.2	.1	.1	1.2	.8	1.0	4.8	2.8	4.0	4.6	3.4	4.2
21	.2	.1	.1	1.5	1.0	1.2	4.1	2.9	3.4	4.5	4.0	4.1
22	.1	.1	.1	1.6	1.2	1.4	---	---	---	4.8	3.3	4.0
23	.1	.0	.1	1.5	1.2	1.4	3.6	2.8	3.2	3.9	3.0	3.5
24	.1	.0	.1	1.2	1.1	1.1	3.5	2.7	3.1	4.9	3.0	3.8
25	.1	.0	.0	1.2	1.1	1.2	3.2	2.5	2.8	3.4	1.7	2.5
26	.1	.0	.0	1.4	1.0	1.2	3.4	2.5	3.0	3.9	2.6	3.4
27	.0	.0	.0	1.3	.8	1.1	3.6	3.1	3.4	4.1	3.1	3.5
28	.1	.0	.0	1.3	.9	1.1	3.8	3.1	3.5	3.3	1.9	2.7
29	.1	.0	.1	1.3	.8	1.0	3.8	3.4	3.6	2.4	1.9	2.0
30	.1	.0	.0	1.2	.3	.7	4.0	3.4	3.6	2.6	2.1	2.3
31	.1	.0	.0	---	---	---	3.9	3.6	3.7	2.3	1.7	1.9
MONTH	---	---	---	1.8	.0	.7	---	---	---	9.3	1.7	4.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.9	1.5	1.7	2.1	.6	1.2	4.8	3.8	4.1	6.1	3.0	4.1
2	1.8	1.2	1.6	3.9	1.2	1.8	5.0	3.4	4.0	4.1	3.1	3.6
3	1.9	1.0	1.4	3.2	1.6	2.1	5.0	3.8	4.5	4.7	3.2	4.1
4	1.5	1.0	1.2	---	---	---	4.8	3.8	4.4	3.9	2.5	3.3
5	2.0	1.0	1.3	---	---	---	4.2	2.3	3.4	4.0	2.3	3.1
6	2.7	1.3	1.7	3.7	2.6	3.0	4.2	3.0	3.4	4.2	2.1	2.7
7	2.1	.9	1.3	3.8	2.7	3.1	6.0	3.5	4.3	4.5	1.8	2.6
8	1.6	.9	1.3	3.4	2.5	2.9	6.0	3.7	5.0	4.6	2.1	3.0
9	1.5	1.1	1.2	4.6	2.8	3.4	5.4	3.1	4.2	7.4	2.0	4.9
10	1.6	.8	1.1	5.8	3.2	3.9	6.4	3.0	4.0	7.2	4.3	5.5
11	1.4	.9	1.1	7.0	3.9	5.1	6.6	3.6	5.0	7.8	4.9	6.2
12	1.7	.8	1.3	7.0	4.6	5.5	6.2	5.0	5.8	6.9	6.1	6.6
13	1.4	.9	1.1	6.2	5.1	5.7	6.3	5.8	6.1	7.2	4.8	5.9
14	1.9	.8	1.4	6.0	5.6	5.8	7.2	5.2	5.9	7.4	4.9	6.1
15	1.7	1.2	1.5	5.9	5.6	5.7	7.7	5.0	5.8	7.9	6.6	7.2
16	1.7	1.3	1.4	5.9	4.8	5.5	5.2	3.9	4.5	8.4	7.3	7.8
17	---	---	---	5.7	5.0	5.3	6.9	3.3	4.3	7.7	6.7	7.2
18	---	---	---	5.8	4.9	5.4	8.6	4.4	5.7	7.6	6.8	7.1
19	---	---	---	7.1	5.1	5.9	5.8	2.1	3.4	8.3	6.9	7.3
20	---	---	---	---	---	---	4.8	2.2	3.2	8.0	7.1	7.6
21	2.4	1.4	1.8	5.7	4.0	4.6	6.8	3.2	5.2	9.2	6.2	7.8
22	2.3	1.6	1.8	4.5	3.2	3.9	5.2	4.5	5.0	9.6	6.3	7.4
23	1.6	.8	1.0	3.8	2.1	2.6	5.3	4.7	5.0	8.3	6.7	7.4
24	1.1	.6	.8	3.6	2.0	2.6	5.7	4.0	4.6	8.2	6.4	7.0
25	1.3	.3	.7	3.6	2.4	2.8	5.7	3.7	4.7	7.4	5.6	6.3
26	1.1	.5	.7	2.9	2.5	2.7	4.7	3.6	4.0	8.0	5.7	6.6
27	2.5	.4	1.1	3.5	2.5	2.8	---	---	---	8.1	6.2	6.8
28	3.0	.7	1.4	5.8	2.8	4.0	5.0	3.1	3.9	9.7	5.8	8.1
29	3.0	.9	1.4	5.7	4.3	4.7	4.0	2.9	3.2	9.2	7.1	8.2
30	---	---	---	4.8	4.2	4.4	3.9	2.8	3.1	9.0	5.2	7.0
31	---	---	---	4.8	4.1	4.5	---	---	---	7.2	5.1	6.0
MONTH	---	---	---	---	---	---	---	---	---	9.7	1.8	6.0

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), TOP, 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	8.4	6.3	7.6	15.2	14.1	14.9	15.8	10.5	13.0	13.8	12.2	13.1
2	9.1	7.7	8.0	15.2	13.7	14.5	17.3	12.2	14.3	14.0	11.4	12.1
3	10.2	7.1	8.2	14.5	12.6	13.7	18.1	11.8	14.9	14.2	11.3	13.0
4	10.1	8.0	9.4	13.3	11.6	12.3	18.8	8.9	14.3	14.8	10.2	12.4
5	9.6	7.5	8.7	13.4	11.7	12.5	17.1	7.8	11.2	13.5	10.0	11.6
6	9.4	6.5	8.4	14.2	12.4	13.2	15.1	7.2	11.9	13.1	10.2	11.6
7	8.9	7.3	8.1	14.1	13.1	13.5	17.2	7.4	12.8	13.3	8.1	10.3
8	8.3	6.3	7.6	14.3	13.0	13.7	16.7	10.7	13.3	9.9	8.4	8.9
9	8.9	6.8	7.5	14.5	12.5	13.4	19.5	13.6	16.2	9.0	7.4	8.1
10	8.2	7.0	7.6	15.1	12.4	13.3	17.9	9.8	13.1	9.0	6.9	7.6
11	8.5	5.3	7.6	14.0	12.5	13.3	17.7	7.6	12.1	---	---	---
12	11.6	5.6	8.4	14.2	12.8	13.5	14.7	7.6	10.3	---	---	---
13	13.1	8.6	9.8	14.8	13.3	14.1	14.5	8.4	10.3	5.6	4.7	5.1
14	13.7	7.8	11.0	14.7	13.1	13.8	13.0	10.2	11.4	5.6	4.2	4.8
15	---	---	---	---	---	---	14.0	12.2	13.0	4.8	3.5	4.3
16	---	---	---	15.7	12.4	13.7	14.8	13.1	14.0	6.2	3.4	4.0
17	---	---	---	15.3	12.6	13.5	20.0	13.8	15.2	4.2	3.0	3.4
18	---	---	---	14.4	10.2	12.5	15.6	15.1	15.4	6.8	3.7	5.4
19	---	---	---	15.0	10.0	12.4	16.1	14.7	15.4	6.2	5.0	5.5
20	---	---	---	16.7	12.0	13.9	15.8	15.3	15.6	5.9	4.7	5.1
21	---	---	---	14.5	13.6	13.9	15.7	12.8	14.9	5.8	4.9	5.1
22	13.5	12.8	13.1	14.7	13.8	14.3	14.9	11.4	12.8	6.5	4.6	5.6
23	13.7	12.5	13.1	14.9	14.0	14.4	14.8	13.4	14.2	6.9	5.7	6.3
24	12.9	11.5	12.0	14.6	13.9	14.2	14.2	11.9	13.1	6.1	4.2	5.2
25	13.5	11.8	12.5	14.8	13.8	14.2	15.0	12.0	13.2	6.4	3.9	4.6
26	13.9	11.7	12.6	14.9	12.6	13.6	13.2	12.2	12.5	7.0	4.6	6.1
27	14.3	12.4	13.5	14.7	10.2	12.4	15.1	12.2	13.3	6.9	5.4	5.9
28	15.3	12.1	13.5	14.0	9.5	11.8	15.6	12.1	13.6	5.5	4.9	5.0
29	15.1	13.4	14.3	15.3	10.1	13.6	13.7	11.7	12.9	7.6	5.2	6.4
30	15.3	12.8	14.1	17.0	12.2	14.5	14.8	13.5	14.3	6.1	4.9	5.5
31	---	---	---	16.6	11.3	13.6	14.1	13.2	13.7	---	---	---
MONTH	---	---	---	---	---	---	20.0	7.2	13.4	---	---	---

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	---	---	---	.1	.1	.1	.4	.2	.3	4.5	3.7	4.0
2	---	---	---	.1	.1	.1	1.0	.1	.3	6.3	3.6	4.4
3	---	---	---	.1	.1	.1	1.0	.5	.7	8.0	4.4	6.2
4	---	---	---	.1	.1	.1	1.6	.6	.8	9.0	6.8	7.8
5	---	---	---	.3	.1	.1	2.9	.8	1.4	8.1	4.7	6.1
6	.8	.1	.2	.3	.1	.2	4.6	1.5	2.4	7.0	4.6	5.9
7	.5	.1	.2	.5	.1	.2	3.7	1.7	2.6	6.4	5.0	5.6
8	.6	.2	.4	.7	.3	.5	---	---	---	6.8	4.9	5.6
9	.4	.1	.2	.5	.2	.3	3.6	2.0	2.4	6.0	4.9	5.2
10	.2	.1	.2	.6	.2	.3	7.7	2.3	3.6	6.8	4.9	5.7
11	.3	.1	.1	.8	.3	.5	4.3	2.7	3.6	6.1	5.2	5.5
12	2.7	.1	.4	.6	.4	.5	5.0	2.4	3.6	5.6	5.1	5.3
13	.4	.2	.3	.6	.4	.5	5.0	3.4	4.1	6.4	4.9	5.3
14	.5	.2	.2	1.1	.3	.5	6.3	3.4	4.2	5.8	3.7	4.5
15	.9	.2	.6	2.1	.5	1.0	6.6	3.4	4.3	5.0	3.5	4.0
16	.9	.4	.6	2.0	.7	1.3	6.5	2.9	4.5	6.3	3.9	4.5
17	.8	.3	.5	1.9	.5	1.1	5.9	4.1	4.7	5.3	4.7	5.0
18	.4	.1	.2	1.6	.8	1.2	5.3	4.0	4.6	5.0	4.2	4.6
19	.2	.1	.1	1.8	.8	1.3	4.9	4.3	4.5	4.7	4.0	4.2
20	.2	.1	.1	1.5	1.0	1.2	4.9	3.0	4.2	5.1	3.9	4.4
21	.2	.1	.1	2.4	1.1	1.3	4.7	3.1	4.0	4.4	4.1	4.2
22	.1	.1	.1	1.9	1.3	1.5	---	---	---	6.1	3.8	5.1
23	.1	.0	.1	1.5	1.3	1.4	5.7	2.8	3.5	5.9	3.3	4.2
24	.1	.0	.1	1.3	1.1	1.2	3.4	2.9	3.1	4.9	3.3	4.0
25	.1	.0	.0	1.3	1.1	1.2	3.2	2.4	2.8	4.4	2.1	2.8
26	.1	.0	.0	1.5	1.1	1.3	3.6	2.8	3.2	4.6	3.2	3.9
27	.1	.0	.1	1.4	1.0	1.2	3.9	3.1	3.4	4.5	3.3	3.8
28	.1	.1	.1	1.6	1.0	1.2	3.8	3.1	3.5	5.5	2.2	3.2
29	.1	.1	.1	1.5	.9	1.1	4.2	3.4	3.6	4.7	2.1	2.9
30	.1	.0	.1	1.2	.3	.8	4.4	3.5	3.8	3.6	2.4	2.6
31	.1	.0	.1	---	---	---	5.3	3.6	4.1	3.1	1.9	2.2
MONTH	---	---	---	2.4	.1	.8	---	---	---	9.0	1.9	4.6

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, 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	2.3	1.7	1.9	8.7	5.1	7.2	4.8	4.0	4.3	6.5	2.6	5.1
2	2.2	1.5	1.8	8.8	2.3	5.7	5.5	3.3	4.2	---	---	---
3	4.5	1.3	2.1	8.9	1.8	5.9	5.7	3.5	4.5	---	---	---
4	5.0	1.2	2.2	---	---	---	4.8	3.8	4.4	4.4	1.6	3.8
5	2.7	1.2	1.7	---	---	---	5.1	2.5	3.9	4.5	1.8	3.6
6	6.2	1.6	2.6	7.0	3.2	4.9	5.1	3.0	3.8	5.9	2.7	4.4
7	7.6	1.5	3.8	7.7	3.1	4.4	6.6	3.1	4.8	8.6	3.5	6.9
8	7.9	1.3	4.1	6.0	2.6	3.6	7.0	3.7	5.5	9.8	2.4	7.0
9	2.1	1.3	1.5	7.9	3.3	5.5	---	---	---	9.7	2.6	6.8
10	2.8	1.0	1.4	7.2	4.2	5.7	7.4	4.1	5.5	9.5	4.6	6.6
11	4.9	1.2	2.5	8.7	5.9	7.3	9.6	5.4	6.8	8.5	5.2	6.9
12	4.8	1.0	1.9	7.2	4.8	5.7	---	---	---	8.7	6.4	7.4
13	3.1	1.1	1.4	6.3	5.1	5.8	8.4	5.9	6.4	9.7	4.4	7.1
14	3.3	1.3	1.9	6.1	5.6	5.8	7.3	5.3	6.2	---	---	---
15	3.3	1.3	1.8	5.9	5.6	5.7	8.2	5.3	6.5	---	---	---
16	4.2	1.4	1.9	6.1	5.1	5.6	8.2	4.4	6.1	---	---	---
17	---	---	---	5.5	4.9	5.3	8.3	6.3	7.7	---	---	---
18	---	---	---	5.6	4.7	5.2	9.5	5.3	6.7	---	---	---
19	---	---	---	6.7	4.9	5.7	6.2	2.6	4.0	---	---	---
20	---	---	---	---	---	---	6.7	3.6	5.5	---	---	---
21	3.7	1.6	2.4	5.5	4.1	4.7	7.3	4.8	6.2	---	---	---
22	---	---	---	4.4	3.0	3.8	6.6	4.9	5.3	---	---	---
23	2.1	1.1	1.5	4.6	2.2	3.1	5.8	4.9	5.1	11.8	6.1	8.4
24	2.5	.9	1.3	4.9	2.1	3.8	7.1	3.8	5.3	11.7	5.1	7.7
25	3.3	.8	1.9	5.6	2.8	4.4	---	---	---	10.6	6.4	7.8
26	4.9	2.0	3.5	6.2	1.5	4.1	---	---	---	13.0	6.2	8.5
27	6.1	3.3	5.4	7.2	3.0	5.2	---	---	---	13.7	7.8	9.5
28	6.9	1.1	4.1	7.1	3.2	4.6	5.8	3.2	4.5	12.0	6.9	8.8
29	7.4	1.3	4.8	6.2	4.3	4.8	6.3	1.8	3.9	10.0	7.1	8.2
30	---	---	---	5.8	4.2	4.7	6.3	2.6	4.2	9.5	5.0	7.1
31	---	---	---	5.0	4.1	4.5	---	---	---	9.0	5.0	6.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.6	7.4	8.5	15.6	14.8	15.1	18.7	15.1	17.7	13.3	11.5	12.6
2	11.1	7.8	9.3	15.7	13.8	14.8	18.8	16.9	18.3	13.7	11.2	12.4
3	---	---	---	15.2	12.7	14.1	20.6	13.8	17.8	15.3	12.7	13.6
4	10.3	8.7	9.7	14.5	11.8	12.9	21.6	14.2	19.5	15.8	11.3	14.3
5	10.8	6.7	9.4	15.9	12.2	12.9	22.1	10.3	17.9	16.1	9.3	11.8
6	10.6	6.6	8.6	16.4	12.6	14.1	21.7	15.1	18.7	12.9	9.2	10.8
7	9.8	5.5	8.6	15.6	13.3	13.8	21.5	17.6	19.8	12.4	8.5	10.5
8	10.5	5.7	9.4	15.3	13.2	14.0	21.9	17.4	20.2	10.0	8.0	8.8
9	11.1	7.4	10.2	16.6	13.1	14.1	22.0	17.3	20.2	10.0	7.4	8.5
10	12.2	6.5	10.5	15.3	12.9	13.6	21.7	14.9	19.4	11.2	6.7	8.3
11	13.4	9.8	11.9	14.7	13.0	13.7	21.9	15.9	19.2	9.7	6.5	7.6
12	14.1	8.6	11.9	16.1	12.9	13.8	18.8	10.8	15.1	7.2	5.8	6.6
13	14.5	10.5	12.8	15.9	13.7	14.7	20.7	9.7	13.2	9.0	5.5	6.9
14	14.1	10.9	12.7	15.9	13.4	14.5	16.4	10.1	12.6	9.6	6.2	7.2
15	15.1	12.2	13.4	---	---	---	16.0	12.8	13.9	10.2	5.6	8.1
16	15.6	13.0	14.3	17.1	13.7	15.0	17.9	13.5	15.2	10.2	4.0	6.0
17	---	---	---	16.8	13.0	15.0	20.5	14.3	15.8	8.5	3.1	5.1
18	15.4	12.7	13.8	16.3	12.4	14.5	15.9	15.3	15.5	8.9	4.2	6.0
19	15.5	12.1	13.2	18.5	14.2	16.8	17.1	15.1	15.4	7.9	5.2	6.0
20	14.0	12.6	13.2	18.6	13.6	14.8	15.7	15.3	15.6	7.2	5.1	5.9
21	14.2	13.1	13.6	15.8	13.7	14.3	15.7	14.3	15.3	9.9	5.4	6.8
22	13.6	12.8	13.2	14.9	14.1	14.4	15.6	13.0	14.8	13.1	5.1	7.7
23	14.9	12.7	13.5	15.2	14.0	14.5	15.2	14.3	14.8	9.9	5.7	7.0
24	16.1	12.4	13.7	14.9	13.9	14.3	15.1	12.6	13.9	11.0	5.7	7.1
25	15.6	12.9	14.3	15.1	13.7	14.2	15.2	11.9	13.6	13.1	5.3	10.0
26	16.6	12.9	14.7	15.5	12.7	13.8	14.2	12.2	13.1	13.5	5.3	7.8
27	15.7	13.6	14.3	15.7	12.1	13.3	15.3	13.5	14.7	6.8	5.4	6.0
28	17.3	13.0	14.3	16.0	13.3	14.9	15.7	12.6	14.5	5.5	4.9	5.1
29	15.7	14.1	14.4	16.7	14.6	15.6	15.4	12.2	13.3	7.5	5.1	6.4
30	15.5	13.1	14.4	17.7	13.7	16.5	15.0	13.3	13.8	6.5	5.0	5.6
31	---	---	---	18.2	15.9	17.3	13.5	12.8	13.1	---	---	---
MONTH	---	---	---	---	---	---	22.1	9.7	16.0	16.1	3.1	8.2

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	---	---	---	6.7	6.2	6.5	7.4	7.2	7.3	8.3	7.5	7.8
2	---	---	---	7.2	6.4	6.7	7.4	7.2	7.3	8.2	7.6	7.9
3	---	---	---	6.9	6.7	6.8	7.8	7.3	7.5	8.0	7.7	7.9
4	---	---	---	6.8	6.7	6.7	7.7	7.4	7.5	7.9	7.2	7.6
5	---	---	---	7.0	6.8	6.9	8.2	7.5	7.7	7.7	7.4	7.6
6	6.8	6.4	6.5	7.2	6.9	7.0	7.9	7.5	7.7	7.7	7.5	7.6
7	6.9	6.3	6.5	7.1	6.9	7.0	7.7	7.4	7.5	7.7	7.4	7.6
8	7.0	6.5	6.8	7.3	7.1	7.2	---	---	---	8.0	7.4	7.7
9	6.8	6.3	6.4	7.2	6.9	7.0	8.6	7.5	8.0	8.3	7.6	7.9
10	6.6	6.4	6.5	7.1	6.9	7.0	8.3	7.6	7.9	7.9	7.5	7.7
11	6.5	6.3	6.4	7.2	6.9	7.0	8.3	7.6	7.7	8.4	7.6	7.8
12	7.0	6.4	6.7	7.2	7.0	7.1	8.0	7.6	7.8	8.3	7.6	7.9
13	7.0	6.5	6.7	7.4	7.1	7.2	8.2	7.7	7.8	8.4	7.7	8.0
14	7.1	6.6	6.8	7.3	7.1	7.1	7.7	7.3	7.6	7.9	7.6	7.7
15	7.2	6.8	7.0	7.2	7.0	7.1	8.1	7.4	7.6	7.8	7.5	7.6
16	7.1	6.9	7.0	7.4	7.1	7.2	7.7	7.3	7.5	8.2	7.7	7.8
17	7.3	6.9	7.0	7.4	7.2	7.3	7.9	7.4	7.5	8.0	7.7	7.8
18	7.2	6.9	7.1	7.6	7.2	7.3	8.3	7.5	7.8	7.9	7.6	7.8
19	7.3	6.8	7.1	7.9	7.2	7.4	7.8	7.6	7.6	7.9	7.7	7.8
20	7.6	6.9	7.1	8.1	7.3	7.7	8.1	7.5	7.7	7.9	7.7	7.8
21	7.2	6.9	7.0	8.1	7.3	7.7	8.1	7.5	7.7	7.8	7.6	7.7
22	7.1	6.9	7.0	7.9	7.3	7.6	---	---	---	8.1	7.6	7.8
23	7.1	6.7	6.9	7.9	7.5	7.7	8.0	7.5	7.7	8.0	7.7	7.8
24	7.1	6.7	6.9	8.2	7.5	7.6	7.9	7.4	7.7	7.9	7.7	7.8
25	7.0	6.5	6.7	8.2	7.4	7.6	8.0	7.5	7.7	7.7	7.5	7.6
26	6.8	6.5	6.6	7.7	7.1	7.5	8.3	7.4	7.6	7.7	7.6	7.6
27	6.7	6.6	6.6	7.4	7.2	7.3	7.8	7.4	7.5	7.7	7.6	7.6
28	6.8	6.6	6.7	7.4	7.2	7.3	7.7	7.4	7.6	7.7	7.4	7.6
29	6.9	6.6	6.8	7.4	7.2	7.3	7.7	7.4	7.6	7.7	7.4	7.6
30	6.8	6.3	6.5	7.6	7.2	7.4	7.7	7.4	7.6	7.7	7.6	7.7
31	6.5	6.3	6.4	---	---	---	7.9	7.5	7.7	7.6	7.5	7.6
MONTH	---	---	---	8.2	6.2	7.2	---	---	---	8.4	7.2	7.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.5	7.4	7.4	7.8	7.5	7.7	8.7	8.0	8.5	8.6	7.1	8.1
2	7.5	7.1	7.4	7.8	7.3	7.6	8.7	7.6	8.5	8.5	7.9	8.3
3	7.3	7.0	7.2	8.1	7.3	7.7	8.7	7.8	8.1	8.4	7.8	8.1
4	7.2	7.0	7.1	---	---	---	8.6	7.6	8.1	8.6	8.2	8.4
5	7.3	7.1	7.2	---	---	---	8.0	7.6	7.8	8.9	7.5	8.4
6	7.4	7.1	7.3	8.3	7.6	7.9	8.6	7.5	7.8	9.0	7.5	8.6
7	7.4	6.8	7.0	8.5	7.7	8.0	8.3	7.3	7.6	9.0	7.5	8.6
8	7.5	7.0	7.2	8.5	7.7	8.0	8.5	7.3	7.7	8.7	7.3	8.3
9	7.3	7.1	7.2	8.4	7.5	8.0	7.6	7.3	7.4	8.4	7.0	7.7
10	7.4	7.0	7.2	8.4	7.3	7.8	8.2	7.2	7.6	8.2	7.1	7.7
11	7.3	7.1	7.2	8.0	7.3	7.7	8.0	7.4	7.7	8.1	7.1	7.7
12	7.6	7.0	7.3	7.8	7.4	7.6	8.2	7.4	7.7	8.0	7.4	7.7
13	7.3	7.1	7.2	8.1	7.6	7.8	7.5	7.1	7.3	8.2	7.4	7.9
14	7.3	6.9	7.1	8.3	7.7	8.0	7.4	7.1	7.2	8.1	7.3	7.8
15	7.3	7.0	7.1	8.7	7.9	8.2	7.2	7.0	7.1	7.7	7.5	7.6
16	7.2	7.1	7.1	8.4	7.9	8.2	7.9	7.1	7.5	7.8	7.4	7.6
17	---	---	---	8.4	7.7	8.1	8.2	7.1	7.7	7.8	7.4	7.6
18	---	---	---	8.4	7.7	8.2	7.4	6.8	7.2	7.9	7.3	7.6
19	---	---	---	8.6	8.1	8.3	7.3	7.1	7.2	7.9	7.4	7.6
20	---	---	---	---	---	---	8.1	6.9	7.2	8.2	7.5	7.8
21	7.9	7.2	7.5	8.6	8.2	8.4	7.5	6.7	7.1	8.1	7.4	7.7
22	8.0	7.3	7.6	8.8	8.3	8.4	7.5	7.0	7.1	7.7	7.3	7.5
23	8.2	7.4	7.6	8.6	7.9	8.3	7.7	7.0	7.3	8.1	7.3	7.6
24	8.3	7.4	7.6	9.2	8.2	8.6	8.1	7.0	7.7	8.0	7.3	7.6
25	8.1	7.5	7.6	9.0	8.5	8.7	7.7	7.1	7.5	8.1	7.3	7.7
26	8.3	7.5	7.8	9.3	8.6	9.0	8.0	7.2	7.5	8.1	7.3	7.7
27	8.1	7.6	7.9	9.4	8.7	9.1	---	---	---	8.2	7.4	7.8
28	7.9	7.5	7.7	9.3	8.1	8.7	8.1	7.1	7.8	7.9	7.1	7.4
29	7.9	7.5	7.7	8.5	7.4	8.2	8.7	7.5	8.1	7.4	7.2	7.3
30	---	---	---	8.4	7.7	8.0	8.9	8.1	8.6	7.5	7.3	7.4
31	---	---	---	8.5	7.8	8.1	---	---	---	8.2	7.3	7.7
MONTH	---	---	---	---	---	---	---	---	---	9.0	7.0	7.8

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, 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	8.2	7.6	7.9	8.0	7.7	7.8	8.0	7.3	7.6	8.0	7.4	7.7
2	8.6	7.9	8.3	8.0	7.6	7.8	8.1	7.2	7.7	7.9	7.5	7.7
3	8.8	8.0	8.4	8.1	7.8	7.9	7.8	7.0	7.3	8.4	7.5	7.8
4	8.4	7.8	8.0	8.1	7.8	8.0	7.4	7.1	7.2	8.3	7.4	7.8
5	8.3	7.8	8.0	8.1	7.6	7.9	8.1	7.1	7.5	8.4	7.7	8.1
6	8.5	7.8	8.2	8.3	7.6	7.9	8.0	7.3	7.7	8.3	8.0	8.1
7	8.3	7.8	8.0	8.2	8.0	8.2	8.0	7.3	7.6	8.4	7.9	8.1
8	8.5	7.9	8.2	8.3	7.8	8.1	7.8	7.1	7.4	8.6	8.0	8.3
9	8.5	8.0	8.2	8.2	7.5	8.0	7.8	7.1	7.3	8.5	8.1	8.3
10	8.7	8.0	8.4	8.1	7.4	7.9	7.9	7.1	7.6	8.6	8.1	8.3
11	9.0	8.1	8.5	8.3	7.7	8.0	8.1	7.2	7.6	8.4	8.0	8.2
12	8.7	7.2	8.1	8.1	7.8	7.9	8.0	7.3	7.6	8.3	7.9	8.2
13	7.7	6.9	7.4	8.1	7.6	7.9	8.0	7.4	7.6	8.7	7.4	8.2
14	7.8	7.0	7.3	8.1	7.4	7.8	7.7	7.2	7.4	8.4	7.9	8.3
15	7.4	6.9	7.2	---	---	---	8.0	7.4	7.7	8.2	7.8	8.1
16	7.3	7.0	7.2	8.4	7.6	8.0	7.9	7.4	7.7	8.1	7.6	7.9
17	---	---	---	8.3	7.6	8.1	7.9	7.2	7.6	8.0	7.4	7.7
18	7.7	7.4	7.5	8.6	8.0	8.2	7.8	7.4	7.6	7.8	7.3	7.6
19	8.0	7.4	7.7	8.4	7.7	8.2	7.8	7.3	7.6	7.6	7.2	7.4
20	7.9	7.5	7.7	8.4	7.3	8.1	7.8	7.6	7.7	7.8	7.3	7.5
21	8.2	7.5	7.8	8.4	8.1	8.3	8.1	7.6	7.8	8.1	7.4	7.6
22	8.0	7.7	7.8	8.3	8.1	8.2	8.1	7.7	7.9	8.0	7.7	7.9
23	8.1	7.5	7.7	8.2	8.0	8.2	8.0	7.5	7.7	7.8	7.4	7.6
24	8.3	7.7	8.0	8.3	7.9	8.1	8.1	7.7	7.9	8.3	7.3	7.6
25	8.1	7.7	7.9	8.2	7.8	8.1	8.1	7.5	7.9	8.0	7.4	7.6
26	8.1	7.6	7.9	8.5	7.8	8.1	8.1	7.9	8.0	7.8	7.2	7.4
27	7.8	7.5	7.7	8.4	7.7	8.3	8.1	7.5	7.9	8.2	7.4	7.6
28	8.0	7.4	7.7	8.4	7.8	8.1	8.3	7.4	7.9	8.3	7.3	7.8
29	7.8	7.5	7.7	8.2	7.2	7.7	8.2	7.8	8.0	8.2	7.9	8.0
30	7.9	7.5	7.7	7.8	7.2	7.4	8.2	7.8	7.9	8.2	8.0	8.1
31	---	---	---	7.7	7.1	7.3	7.9	7.5	7.8	---	---	---
MONTH	---	---	---	---	---	---	8.3	7.0	7.7	8.7	7.2	7.9

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	---	---	---	6.7	6.3	6.5	7.4	7.2	7.3	8.0	7.7	7.8
2	---	---	---	7.1	6.4	6.6	7.5	7.2	7.3	7.9	7.4	7.7
3	---	---	---	6.8	6.6	6.7	7.8	7.4	7.5	7.7	7.2	7.5
4	---	---	---	6.7	6.6	6.6	7.7	7.4	7.5	7.5	7.2	7.3
5	---	---	---	7.0	6.7	6.8	7.8	7.3	7.5	7.6	7.4	7.5
6	6.8	6.4	6.5	7.1	6.8	6.9	7.7	7.2	7.4	7.6	7.4	7.5
7	7.0	6.4	6.6	7.1	6.9	7.0	7.7	7.3	7.5	7.7	7.4	7.6
8	7.1	6.7	6.9	7.2	7.1	7.1	---	---	---	7.8	7.3	7.6
9	7.0	6.4	6.6	7.2	6.9	7.0	8.2	7.4	7.7	7.9	7.6	7.8
10	6.7	6.4	6.6	7.0	6.9	6.9	7.9	7.2	7.6	7.7	7.3	7.6
11	6.7	6.4	6.5	7.1	6.9	7.0	8.2	7.4	7.7	8.1	7.6	7.7
12	7.0	6.4	6.8	7.1	7.0	7.0	7.9	7.4	7.6	7.9	7.6	7.7
13	6.9	6.6	6.7	7.2	7.0	7.0	7.7	7.3	7.6	8.2	7.6	7.9
14	7.0	6.6	6.7	7.2	7.0	7.1	7.5	7.1	7.4	7.8	7.6	7.7
15	7.1	6.8	7.0	7.2	7.0	7.1	7.6	7.0	7.4	7.7	7.6	7.6
16	7.1	6.9	7.0	7.3	7.1	7.2	7.6	7.2	7.4	8.0	7.6	7.8
17	7.3	6.9	7.0	7.4	7.2	7.3	7.6	7.3	7.4	8.0	7.7	7.9
18	7.1	6.9	7.0	7.4	7.1	7.2	7.9	7.4	7.6	8.1	7.8	7.9
19	7.3	6.8	7.1	7.4	7.1	7.2	7.7	7.6	7.6	8.1	7.8	7.9
20	7.4	6.8	7.1	7.7	7.1	7.4	7.9	7.5	7.7	8.1	7.7	7.9
21	7.2	6.8	7.0	8.0	7.0	7.5	8.1	7.5	7.7	7.9	7.7	7.7
22	7.1	6.8	7.0	7.7	7.1	7.5	---	---	---	8.1	7.7	7.9
23	7.1	6.8	6.9	7.8	7.5	7.6	7.9	7.5	7.7	8.1	7.8	7.9
24	7.1	6.7	6.9	7.7	7.3	7.5	8.1	7.6	7.8	8.0	7.8	7.9
25	6.9	6.6	6.7	7.8	7.3	7.5	8.0	7.6	7.8	7.9	7.6	7.7
26	6.8	6.6	6.7	7.7	6.9	7.4	7.8	7.6	7.6	7.8	7.6	7.7
27	6.7	6.5	6.6	7.4	7.1	7.3	7.8	7.5	7.6	7.8	7.7	7.7
28	6.9	6.6	6.8	7.4	7.2	7.3	7.7	7.6	7.7	7.9	7.6	7.8
29	6.9	6.5	6.8	7.4	7.1	7.3	7.8	7.6	7.7	7.9	7.6	7.8
30	6.8	6.4	6.6	7.7	7.2	7.4	7.8	7.6	7.7	7.8	7.7	7.8
31	6.6	6.3	6.5	---	---	---	7.9	7.7	7.8	7.7	7.6	7.7
MONTH	---	---	---	8.0	6.3	7.1	---	---	---	8.2	7.2	7.7

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, 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	7.7	7.6	7.6	6.8	6.6	6.7	8.4	7.7	8.2	7.9	6.9	7.3
2	7.6	7.4	7.6	7.1	6.6	6.7	8.5	6.8	8.0	8.3	7.0	7.7
3	7.6	7.3	7.5	7.2	6.5	6.8	8.2	6.7	7.8	8.2	6.9	7.7
4	7.5	7.2	7.4	---	---	---	8.5	7.5	7.9	8.3	7.2	7.9
5	7.5	7.2	7.4	---	---	---	7.7	7.3	7.5	8.4	6.8	7.5
6	7.6	7.3	7.4	7.4	6.7	7.0	8.1	7.3	7.6	8.2	6.8	7.1
7	7.6	7.2	7.4	8.3	6.6	7.3	7.6	7.1	7.3	7.1	6.8	6.9
8	7.6	7.2	7.4	7.8	6.8	7.4	8.0	7.0	7.5	8.4	6.9	7.0
9	7.4	7.3	7.3	7.7	6.6	6.9	---	---	---	7.7	6.7	7.1
10	7.3	6.9	7.2	7.5	6.6	6.9	7.6	7.0	7.3	7.8	6.7	7.2
11	7.3	7.1	7.2	7.1	6.6	6.8	7.7	7.0	7.3	7.7	6.9	7.3
12	7.6	7.1	7.3	7.3	6.9	7.1	---	---	---	7.6	6.8	7.2
13	7.3	7.1	7.2	7.7	7.1	7.4	7.4	7.0	7.2	7.8	6.9	7.3
14	7.3	7.1	7.2	8.0	7.3	7.6	7.4	6.9	7.2	7.8	6.9	7.2
15	7.3	7.1	7.2	8.2	7.6	7.9	7.3	6.8	7.0	7.7	7.1	7.4
16	7.2	6.8	7.1	7.9	7.1	7.6	7.8	6.8	7.1	7.8	7.3	7.5
17	---	---	---	7.8	7.3	7.6	7.2	6.7	6.9	7.7	6.9	7.3
18	---	---	---	7.6	7.5	7.6	7.4	6.8	7.1	7.8	7.0	7.4
19	---	---	---	7.7	7.4	7.6	7.4	6.9	7.2	7.9	7.3	7.5
20	---	---	---	---	---	---	7.1	6.8	7.0	8.3	7.2	7.5
21	7.6	7.0	7.2	7.8	7.3	7.5	7.4	6.7	7.0	7.9	7.1	7.4
22	---	---	---	7.7	7.4	7.6	7.7	6.9	7.3	7.8	7.1	7.5
23	8.0	7.0	7.3	7.8	7.2	7.4	7.9	6.9	7.4	7.7	6.9	7.4
24	7.2	6.8	7.0	7.6	7.2	7.4	8.2	6.9	7.4	7.9	6.8	7.3
25	7.5	6.7	7.0	8.2	6.9	7.2	7.7	7.1	7.5	7.7	6.8	7.3
26	7.3	6.6	6.9	8.3	6.8	7.4	8.2	6.7	7.5	7.6	6.9	7.2
27	7.3	6.6	7.0	8.4	6.8	7.2	---	---	---	7.5	6.8	7.1
28	7.4	6.9	7.1	8.2	6.9	7.6	8.1	6.9	7.5	7.9	6.8	7.3
29	7.3	6.7	6.9	8.1	7.3	7.6	8.7	6.9	7.8	7.4	7.0	7.3
30	---	---	---	8.1	7.2	7.6	8.6	6.9	7.7	7.5	7.3	7.4
31	---	---	---	8.3	7.5	7.9	---	---	---	7.5	7.1	7.3
MONTH	---	---	---	---	---	---	---	---	---	8.4	6.7	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.1	7.2	7.9	7.6	7.8	7.6	7.0	7.2	7.6	7.1	7.3
2	8.1	7.1	7.4	7.9	7.5	7.7	7.4	7.2	7.3	7.6	7.0	7.2
3	---	---	---	8.1	7.5	7.8	7.6	7.3	7.4	7.5	7.0	7.3
4	7.9	7.4	7.7	8.0	7.4	7.9	7.6	7.2	7.4	7.7	7.1	7.2
5	7.7	7.2	7.4	8.0	7.2	7.8	7.8	7.1	7.5	8.1	7.2	7.7
6	8.1	7.2	7.7	8.0	7.3	7.7	8.0	7.4	7.6	8.0	7.4	7.7
7	7.7	7.3	7.5	8.1	7.7	8.0	7.8	7.3	7.4	7.9	7.4	7.6
8	7.7	7.3	7.5	8.1	7.3	7.8	8.0	7.4	7.6	8.2	7.3	7.8
9	7.5	7.2	7.3	8.0	7.1	7.7	8.0	7.5	7.6	8.3	7.3	7.9
10	7.6	7.2	7.3	8.0	7.4	7.8	8.0	7.0	7.3	8.2	7.2	7.7
11	7.4	7.2	7.2	8.2	7.6	7.9	7.5	7.0	7.2	8.2	7.3	7.8
12	7.8	6.9	7.3	8.1	7.5	7.9	7.7	7.0	7.2	8.3	7.5	8.0
13	7.3	6.9	7.0	8.1	7.2	7.8	7.8	6.9	7.4	8.1	6.9	7.5
14	7.4	7.0	7.1	8.0	7.2	7.7	7.7	7.0	7.4	7.5	6.9	7.2
15	7.5	7.0	7.2	---	---	---	7.9	7.2	7.6	7.5	6.9	7.1
16	7.4	7.0	7.2	8.1	7.2	7.7	7.9	7.2	7.6	8.1	6.9	7.6
17	---	---	---	8.2	7.2	7.8	7.9	7.3	7.6	8.0	7.1	7.5
18	7.7	7.2	7.4	8.2	7.5	8.0	7.8	7.5	7.6	7.8	7.2	7.5
19	7.9	7.2	7.6	8.1	7.1	7.4	7.8	7.2	7.6	7.7	7.2	7.4
20	7.8	7.5	7.6	8.7	7.2	8.1	7.8	7.6	7.7	7.6	7.2	7.4
21	7.8	7.3	7.6	8.6	7.8	8.4	8.0	7.6	7.8	7.7	7.1	7.3
22	7.9	7.5	7.7	8.5	8.2	8.4	7.9	7.2	7.5	8.0	7.2	7.6
23	7.7	7.1	7.5	8.4	8.0	8.3	7.7	7.2	7.5	7.8	7.1	7.5
24	7.7	6.9	7.4	8.3	7.8	8.2	8.0	7.3	7.7	7.5	7.1	7.3
25	7.9	6.9	7.3	8.3	7.6	8.1	7.9	7.2	7.6	7.4	7.0	7.2
26	7.8	6.9	7.3	8.3	7.1	8.0	8.1	7.3	7.7	7.7	7.1	7.4
27	7.9	7.2	7.6	8.3	7.1	7.9	7.7	7.1	7.4	8.2	7.4	7.6
28	7.8	7.1	7.6	7.8	7.0	7.4	7.9	7.1	7.4	8.2	7.1	7.7
29	7.8	7.3	7.6	7.4	7.0	7.1	8.0	7.1	7.6	8.1	7.8	8.0
30	7.8	7.4	7.7	7.5	7.0	7.1	7.9	7.1	7.7	8.1	8.0	8.1
31	---	---	---	7.2	6.9	7.0	7.8	7.3	7.6	---	---	---
MONTH	---	---	---	---	---	---	8.1	6.9	7.5	8.3	6.9	7.5

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	16.9	17.9	12.9	10.1	11.3	9.0	7.5	8.0
2	---	---	---	19.1	17.6	18.1	10.4	7.5	9.2	11.0	7.4	8.7
3	---	---	---	18.1	15.9	17.0	10.6	8.6	9.6	10.2	8.7	9.5
4	---	---	---	16.1	15.4	15.7	10.5	9.3	9.9	11.7	8.6	10.4
5	---	---	---	16.5	15.0	15.4	12.5	10.1	10.8	11.6	10.3	11.0
6	21.9	21.0	21.4	17.0	14.7	15.4	12.5	11.1	11.8	10.6	10.0	10.3
7	21.5	20.7	21.0	16.2	15.3	15.6	12.1	11.0	11.5	10.5	10.1	10.3
8	20.9	20.0	20.6	15.8	14.9	15.2	---	---	---	10.5	9.7	10.1
9	22.8	20.3	21.2	15.8	14.7	15.2	12.6	10.4	11.1	11.1	9.9	10.4
10	22.0	21.0	21.4	16.7	15.0	15.6	12.1	10.8	11.5	11.5	10.3	10.7
11	22.3	21.3	21.7	18.3	15.6	16.4	12.2	11.4	11.8	12.0	10.5	11.0
12	22.2	21.4	21.8	17.4	16.1	16.6	11.6	10.7	11.3	11.4	10.6	10.9
13	21.7	21.1	21.3	17.9	16.2	16.7	12.5	11.2	11.8	12.4	10.7	11.3
14	21.9	21.2	21.5	17.5	16.2	16.6	13.3	11.9	12.7	11.2	8.7	10.1
15	21.4	20.0	20.8	16.4	15.3	16.0	13.8	12.4	13.0	8.8	7.9	8.3
16	21.1	20.5	20.8	15.5	13.6	14.7	12.5	11.5	12.2	9.2	8.0	8.5
17	21.7	20.9	21.1	14.3	12.8	13.6	11.6	10.9	11.2	8.9	7.6	8.4
18	21.7	21.2	21.4	13.6	12.4	13.0	11.1	10.4	10.7	7.6	6.3	6.9
19	21.2	20.0	20.7	14.4	12.6	13.5	11.3	10.8	11.0	6.4	5.7	6.0
20	21.3	20.1	20.5	14.9	13.7	14.1	12.3	11.2	11.7	6.6	5.5	6.1
21	20.6	19.1	19.7	15.1	14.2	14.7	12.4	11.7	12.0	6.1	4.8	5.3
22	19.1	18.2	18.7	15.7	14.7	15.2	---	---	---	5.0	4.2	4.5
23	18.4	17.4	18.0	16.3	15.3	15.7	11.4	10.4	11.1	4.2	3.8	4.0
24	17.4	15.7	16.7	17.3	15.5	16.0	10.6	9.8	10.4	4.3	4.0	4.1
25	16.7	15.6	16.0	17.4	15.9	16.5	9.9	7.1	8.8	4.1	3.2	3.7
26	17.0	15.4	16.2	17.2	16.1	16.6	8.2	7.2	7.8	3.8	3.0	3.4
27	16.7	15.8	16.2	16.8	16.2	16.6	8.3	7.1	7.6	3.2	2.7	3.0
28	17.1	15.7	16.2	16.5	15.5	16.0	7.9	6.5	7.3	2.8	2.0	2.4
29	17.1	16.0	16.5	15.9	15.2	15.6	7.6	6.7	7.2	2.5	1.8	2.1
30	17.2	16.1	16.7	15.3	12.0	14.0	8.0	7.0	7.4	3.7	2.2	2.6
31	17.9	16.7	17.2	---	---	---	8.4	7.3	7.8	3.8	2.8	3.2
MONTH	---	---	---	19.1	12.0	15.6	---	---	---	12.4	1.8	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.7	2.9	3.4	14.4	13.1	13.7	16.2	15.0	15.5	18.6	16.8	17.9
2	3.8	3.3	3.5	14.7	12.7	14.0	16.7	15.6	16.0	19.2	17.8	18.5
3	4.5	3.2	3.8	14.4	13.0	13.8	18.5	16.1	16.7	19.4	18.5	19.0
4	6.4	3.7	4.2	---	---	---	19.0	16.9	17.6	20.5	19.2	19.8
5	5.5	4.3	4.9	---	---	---	17.4	15.8	16.5	22.3	19.8	20.4
6	5.6	4.5	5.0	14.1	12.5	13.1	17.0	15.4	16.0	22.5	20.3	21.0
7	6.8	4.8	5.7	14.4	12.7	13.5	17.7	15.8	16.4	23.9	20.8	22.0
8	6.9	6.0	6.5	15.4	13.0	13.9	19.3	16.5	17.2	23.6	21.0	22.1
9	6.6	6.2	6.5	15.7	13.7	14.5	17.1	15.7	16.2	23.0	20.0	21.8
10	8.1	6.3	6.9	17.5	13.5	15.2	16.8	14.8	15.5	23.2	21.1	22.2
11	8.3	7.1	7.7	15.6	14.5	15.2	17.6	15.1	16.1	23.7	21.4	22.5
12	8.2	7.4	7.8	15.8	14.8	15.3	18.4	16.5	17.1	23.6	22.2	22.8
13	7.8	7.2	7.4	14.8	13.5	14.3	17.0	15.6	16.2	25.4	22.9	24.0
14	8.7	7.5	8.0	14.4	13.2	13.9	15.8	14.7	15.3	25.0	23.8	24.5
15	9.4	8.2	8.7	15.8	13.6	14.5	16.6	15.6	16.0	24.2	22.9	23.6
16	9.9	8.6	9.2	16.0	14.3	15.0	18.8	16.3	17.2	23.5	21.9	23.0
17	---	---	---	16.3	15.4	15.8	20.1	17.4	18.5	23.2	22.6	22.9
18	---	---	---	15.5	13.7	14.7	19.0	16.2	17.8	23.5	22.1	22.8
19	---	---	---	14.7	13.8	14.1	17.5	16.3	17.0	24.3	22.3	23.2
20	---	---	---	---	---	---	17.6	16.0	16.5	25.8	23.0	24.0
21	10.9	10.2	10.6	14.8	14.3	14.5	19.0	16.3	17.2	26.0	23.5	24.5
22	10.9	10.0	10.4	14.5	13.1	13.9	17.7	16.9	17.2	25.0	23.9	24.4
23	11.9	10.3	10.8	13.3	12.4	12.9	18.1	16.5	17.3	25.6	23.4	24.2
24	14.1	10.8	11.5	14.2	12.4	13.1	18.4	17.4	17.8	25.5	23.6	24.6
25	13.3	11.2	11.7	14.3	12.9	13.5	18.1	17.5	17.9	27.1	24.7	25.6
26	13.8	11.6	12.5	15.8	13.9	14.8	17.7	16.5	17.2	27.4	25.2	26.2
27	14.3	12.1	13.2	16.1	15.3	15.6	---	---	---	26.9	25.5	26.4
28	14.4	12.5	13.5	16.0	14.8	15.4	16.8	16.2	16.5	26.5	25.5	25.9
29	14.2	12.8	13.5	15.8	14.1	15.0	17.7	16.1	16.8	25.6	23.4	24.7
30	---	---	---	15.3	15.0	15.1	18.9	16.9	17.6	23.5	20.4	22.1
31	---	---	---	15.7	14.8	15.2	---	---	---	21.7	20.0	21.0
MONTH	---	---	---	---	---	---	---	---	---	27.4	16.8	22.8

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

TEMPERATURE, WATER (DEG. C), TOP, 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	22.7	21.3	21.8	27.7	27.0	27.3	28.7	27.2	27.8	27.3	26.4	26.7
2	25.0	22.1	23.3	28.7	26.9	27.5	29.3	27.2	28.2	27.6	26.8	27.2
3	27.1	23.3	24.3	27.9	26.8	27.3	28.7	27.1	27.9	28.0	26.8	27.2
4	24.3	23.1	23.4	27.8	26.6	27.2	28.0	26.6	27.2	27.6	26.7	27.2
5	23.8	23.2	23.4	29.1	26.6	27.5	27.8	26.0	26.7	27.3	25.8	26.7
6	24.5	23.3	23.8	28.0	27.2	27.5	27.7	26.9	27.4	25.8	23.8	24.9
7	23.8	22.9	23.3	27.8	27.0	27.3	29.2	27.1	27.8	24.6	23.1	24.0
8	24.7	22.6	23.3	28.5	26.5	27.2	29.3	27.3	28.0	24.8	23.5	24.1
9	25.2	22.9	23.8	27.4	26.4	26.8	29.3	27.5	28.2	25.0	24.2	24.6
10	26.4	23.9	24.7	27.8	25.7	26.6	29.8	27.9	28.8	25.6	24.5	25.0
11	27.1	24.5	25.5	28.5	26.6	27.5	29.4	28.3	28.9	25.9	25.0	25.4
12	27.0	24.6	25.5	28.2	27.3	27.7	29.0	27.9	28.4	26.5	25.0	25.8
13	26.8	24.4	25.5	27.3	26.5	27.0	28.6	27.3	27.9	28.2	25.3	26.6
14	26.6	24.3	25.4	28.1	26.5	27.0	27.7	26.1	26.9	27.8	26.6	27.1
15	26.5	24.1	25.4	---	---	---	28.3	26.1	27.1	27.4	26.3	26.9
16	26.0	24.7	25.4	28.6	26.8	27.3	28.1	26.6	27.4	26.5	24.7	25.6
17	---	---	---	29.0	27.0	27.8	28.2	26.6	27.4	24.9	23.5	24.0
18	27.9	26.2	27.0	31.2	28.2	29.0	28.6	26.9	27.6	23.8	23.2	23.6
19	28.7	26.9	27.5	29.8	28.1	29.1	27.9	27.2	27.5	24.5	23.1	23.6
20	27.6	26.8	27.2	29.6	27.0	28.5	27.4	26.5	26.9	24.7	23.3	24.0
21	29.8	26.5	27.5	28.7	27.4	28.2	26.5	25.0	25.9	25.3	24.1	24.6
22	29.0	26.8	27.6	28.4	27.2	27.7	26.3	24.6	25.3	25.0	24.5	24.8
23	30.6	26.6	27.8	28.1	27.3	27.6	26.6	25.3	26.0	24.8	24.4	24.6
24	29.4	27.7	28.2	27.4	26.9	27.2	27.2	25.6	26.3	26.3	24.2	25.1
25	28.6	27.5	28.0	27.0	26.3	26.6	27.2	26.0	26.5	26.2	24.9	25.5
26	28.9	27.5	28.2	26.9	25.8	26.4	27.0	25.9	26.2	25.3	23.4	24.4
27	29.4	27.5	28.3	28.1	26.3	26.9	26.9	25.9	26.3	23.5	22.5	22.8
28	28.9	27.7	28.2	27.9	26.9	27.3	26.8	25.8	26.3	22.5	21.8	22.1
29	28.8	27.3	27.9	28.2	26.8	27.3	26.7	26.1	26.3	22.2	21.4	21.8
30	27.9	27.0	27.4	28.0	26.8	27.2	26.8	25.6	26.1	21.6	21.1	21.4
31	---	---	---	27.7	27.0	27.3	27.2	26.0	26.5	---	---	---
MONTH	---	---	---	---	---	---	29.8	24.6	27.2	28.2	21.1	24.9

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	---	---	---	18.5	16.6	17.5	12.9	10.1	11.3	8.3	7.6	7.8
2	---	---	---	19.1	17.3	18.1	10.4	7.5	9.4	8.5	7.8	8.2
3	---	---	---	18.2	15.9	17.0	10.6	9.1	9.8	8.8	8.1	8.4
4	---	---	---	16.1	15.1	15.7	10.9	9.3	10.0	11.2	8.2	9.2
5	---	---	---	15.6	14.9	15.2	11.1	10.1	10.7	11.3	10.3	10.9
6	21.8	21.0	21.3	16.1	14.7	15.2	12.2	11.0	11.5	10.6	10.0	10.3
7	21.4	20.7	21.0	16.2	15.2	15.6	12.1	11.0	11.5	10.5	10.2	10.4
8	20.8	20.0	20.5	15.7	14.9	15.3	---	---	---	10.4	9.9	10.2
9	21.2	20.4	20.6	15.8	14.8	15.2	11.6	10.5	10.9	10.5	9.9	10.2
10	21.9	20.7	21.2	16.6	15.0	15.6	12.0	10.9	11.5	11.2	10.2	10.6
11	21.9	21.3	21.5	17.0	15.6	16.0	12.2	11.6	11.8	12.0	10.6	11.0
12	22.1	21.2	21.7	17.4	16.1	16.6	11.7	10.9	11.4	11.1	10.7	10.9
13	21.6	21.0	21.3	16.9	15.9	16.4	11.9	11.5	11.7	12.3	10.8	11.3
14	21.8	21.2	21.4	17.2	16.0	16.5	13.2	11.6	12.4	11.2	8.7	10.1
15	21.4	20.0	20.8	16.4	15.4	16.0	13.2	12.1	12.6	9.1	7.6	8.4
16	21.1	20.4	20.7	15.5	13.8	14.7	12.6	11.8	12.2	9.9	8.1	8.7
17	21.8	20.9	21.1	14.3	13.2	13.7	11.9	11.0	11.2	8.9	7.6	8.4
18	21.7	21.2	21.4	13.9	12.7	13.4	11.4	10.6	10.9	7.6	6.3	6.9
19	21.2	20.0	20.7	13.9	12.7	13.4	11.3	10.7	11.0	6.4	5.7	6.1
20	20.8	20.1	20.4	14.5	13.6	14.0	11.9	11.2	11.6	6.6	5.8	6.3
21	20.5	19.1	19.7	15.0	13.7	14.5	12.3	11.7	11.9	6.1	4.8	5.3
22	19.1	18.2	18.7	15.6	14.5	15.1	---	---	---	5.4	4.4	4.9
23	18.4	17.4	18.0	16.1	15.3	15.6	12.0	10.5	11.1	5.3	4.0	4.3
24	17.5	15.7	16.7	16.5	15.5	15.9	10.9	9.8	10.4	4.3	4.0	4.1
25	16.2	15.6	15.9	17.0	15.8	16.3	10.0	7.1	8.9	4.1	3.4	3.8
26	16.9	15.4	16.1	17.1	15.6	16.5	8.8	7.7	8.1	3.9	3.2	3.5
27	16.5	15.8	16.2	17.0	16.2	16.6	7.9	7.2	7.6	3.2	2.8	3.1
28	16.9	15.7	16.2	16.4	15.5	16.0	7.8	6.9	7.4	3.3	2.2	2.5
29	16.9	15.9	16.3	16.1	15.2	15.7	7.7	6.8	7.3	3.0	1.8	2.3
30	17.1	16.1	16.6	15.4	12.0	14.0	7.8	7.1	7.5	3.4	2.1	2.6
31	17.5	16.5	16.9	---	---	---	8.0	7.3	7.7	3.7	2.8	3.2
MONTH	---	---	---	19.1	12.0	15.6	---	---	---	12.3	1.8	7.2

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, 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	3.7	2.9	3.4	12.1	9.9	10.7	15.9	14.8	15.2	18.0	16.6	17.3
2	3.8	3.3	3.5	13.9	10.0	12.0	16.5	15.2	15.8	18.7	17.4	18.1
3	4.5	3.4	3.9	14.2	10.6	12.1	17.8	15.5	16.5	19.4	18.2	18.9
4	4.4	3.8	4.1	---	---	---	18.9	16.9	17.6	20.3	18.9	19.5
5	5.2	4.2	4.7	---	---	---	17.4	16.0	16.5	20.5	18.8	19.7
6	5.2	4.5	4.8	13.0	11.7	12.3	16.8	15.5	16.2	21.1	18.9	19.7
7	5.6	4.5	5.0	14.4	11.6	13.0	16.7	15.8	16.2	20.2	19.3	19.6
8	6.6	4.4	5.6	14.3	12.5	13.3	18.7	16.1	17.0	22.4	18.9	19.5
9	6.6	6.1	6.5	14.8	11.8	13.2	---	---	---	22.0	19.0	20.5
10	7.5	6.2	6.6	14.8	12.6	13.7	16.2	14.7	15.5	23.1	20.2	21.4
11	7.7	6.1	6.8	15.2	12.4	13.7	17.4	15.7	16.2	22.4	21.2	21.9
12	8.1	6.1	7.6	15.8	14.8	15.2	---	---	---	23.4	21.2	22.2
13	7.5	6.9	7.3	14.9	13.7	14.4	17.0	15.7	16.3	23.8	22.0	22.9
14	8.8	6.8	7.9	14.4	13.3	13.9	15.8	14.7	15.4	24.7	22.6	23.6
15	9.3	7.8	8.5	15.3	13.6	14.3	16.6	15.6	15.9	23.9	22.9	23.5
16	9.8	7.6	8.9	15.6	14.1	14.8	18.1	15.8	16.4	23.7	21.8	23.0
17	---	---	---	16.3	15.4	15.8	17.2	15.8	16.3	23.2	22.6	22.9
18	---	---	---	15.5	13.7	14.7	18.1	16.0	17.3	23.5	22.1	22.8
19	11.4	8.8	10.0	14.6	13.6	14.1	17.6	16.0	17.0	24.0	22.3	23.0
20	12.0	9.8	10.4	---	---	---	16.9	16.4	16.7	25.3	23.0	23.6
21	10.7	9.9	10.4	14.8	14.3	14.5	18.7	16.3	17.1	24.6	23.5	24.0
22	---	---	---	14.5	13.2	13.9	17.8	16.9	17.3	24.5	23.6	24.1
23	10.8	10.3	10.5	13.5	12.6	13.1	18.1	16.5	17.2	24.4	23.6	23.9
24	11.0	10.2	10.7	13.6	12.5	13.3	18.0	17.3	17.6	25.4	23.5	24.3
25	11.3	10.1	10.7	14.0	13.2	13.5	18.0	17.5	17.9	26.2	24.1	24.9
26	11.0	10.0	10.4	15.5	13.2	14.0	17.6	16.6	17.3	25.8	24.1	25.2
27	11.8	9.9	10.2	15.8	13.2	14.2	---	---	---	26.3	23.7	25.4
28	13.9	10.1	11.8	15.6	14.0	15.1	17.0	16.4	16.7	26.4	24.4	25.6
29	13.9	10.4	11.8	15.6	14.1	14.9	17.6	16.0	16.8	25.5	23.4	24.7
30	---	---	---	15.3	14.9	15.1	18.1	16.6	17.0	23.4	21.1	22.3
31	---	---	---	15.7	14.8	15.2	---	---	---	22.2	20.3	21.3
MONTH	---	---	---	---	---	---	---	---	---	26.4	16.6	22.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.3	21.5	21.9	27.7	27.0	27.4	28.1	26.6	27.0	27.2	26.2	26.5
2	23.0	21.4	22.1	27.6	26.9	27.2	27.6	26.7	27.0	27.3	26.2	26.7
3	---	---	---	27.7	26.9	27.2	28.3	26.9	27.3	27.1	26.2	26.7
4	24.0	23.1	23.4	27.6	26.7	27.1	27.2	26.7	27.0	27.2	26.2	26.6
5	23.5	22.7	23.2	28.1	26.6	27.3	27.1	26.2	26.8	27.2	25.8	26.6
6	24.5	22.8	23.7	27.9	27.2	27.5	27.2	26.7	26.9	26.1	23.8	24.9
7	23.7	22.9	23.1	27.7	27.0	27.3	27.4	26.9	27.0	24.7	23.1	24.0
8	23.6	22.9	23.2	27.5	26.6	27.0	27.6	26.8	27.1	24.7	23.5	24.2
9	23.7	22.8	23.2	27.5	26.4	26.9	29.0	26.9	27.6	25.0	24.4	24.6
10	24.3	23.0	23.3	27.7	25.8	26.5	29.1	27.0	27.8	25.4	24.5	24.9
11	23.9	22.7	23.1	28.3	26.6	27.4	28.7	27.2	27.9	25.5	25.0	25.2
12	24.9	22.7	23.6	28.1	27.2	27.7	29.0	27.9	28.3	26.5	25.0	25.7
13	24.9	23.0	23.8	27.3	26.5	26.9	28.5	27.6	27.9	26.2	25.6	25.9
14	26.2	23.6	24.4	27.2	26.2	26.7	28.1	26.1	27.0	26.5	25.7	26.1
15	26.5	23.5	24.8	---	---	---	27.8	26.2	27.2	27.0	25.7	26.2
16	25.9	23.8	25.0	27.8	26.6	27.1	28.1	26.9	27.5	26.6	25.1	25.7
17	---	---	---	28.7	26.8	27.4	28.0	26.8	27.4	25.7	23.7	24.5
18	27.8	25.6	26.6	28.8	27.5	28.2	28.5	27.0	27.7	24.5	23.5	23.9
19	28.2	26.4	27.2	28.6	27.0	27.6	27.9	27.3	27.5	24.4	23.3	23.9
20	27.6	26.8	27.3	29.5	27.0	28.3	27.5	26.6	26.9	24.3	23.6	24.0
21	27.4	26.7	27.1	28.8	27.6	28.2	26.6	25.8	26.1	25.0	24.2	24.4
22	29.0	26.8	27.6	28.4	27.1	27.7	26.2	25.2	25.8	25.0	24.2	24.7
23	28.2	26.5	27.4	28.1	27.3	27.7	26.5	25.8	26.1	24.9	24.5	24.7
24	28.3	27.1	27.8	27.5	27.0	27.2	26.9	25.8	26.2	25.2	24.3	24.5
25	28.5	27.4	27.8	27.2	26.4	26.7	26.7	25.8	26.3	25.3	24.3	24.6
26	28.3	27.3	27.9	26.8	26.0	26.4	26.4	25.9	26.1	25.3	23.5	24.4
27	28.8	27.6	28.1	27.6	26.4	26.7	26.3	25.8	26.0	23.7	22.5	22.9
28	28.7	27.7	28.2	26.8	26.5	26.6	26.8	25.9	26.2	22.5	21.8	22.2
29	28.6	27.3	27.9	27.0	26.5	26.7	26.6	26.0	26.2	22.2	21.4	21.8
30	27.8	27.0	27.4	27.7	26.5	26.8	26.7	25.6	26.1	21.9	21.1	21.4
31	---	---	---	27.1	26.7	26.9	27.1	26.0	26.4	---	---	---
MONTH	---	---	---	---	---	---	29.1	25.2	26.9	27.3	21.1	24.7

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	7.4	8.4	11.4	10.5	10.9	---	---	---
2	---	---	---	9.3	7.7	8.4	12.2	10.8	11.3	---	---	---
3	---	---	---	9.3	8.6	9.0	11.8	11.0	11.3	---	---	---
4	---	---	---	9.1	8.4	8.8	11.9	11.3	11.6	---	---	---
5	---	---	---	9.2	8.5	8.8	12.2	11.2	11.6	---	---	---
6	6.6	5.3	5.8	9.6	8.8	9.3	12.0	11.0	11.5	---	---	---
7	7.9	5.7	6.5	9.7	9.0	9.4	11.5	10.6	11.1	---	---	---
8	8.4	6.8	7.5	9.7	9.1	9.4	---	---	---	---	---	---
9	7.7	6.0	6.5	9.6	8.7	8.9	13.0	11.1	11.7	---	---	---
10	7.3	6.2	6.8	9.4	8.8	9.0	12.4	11.3	11.7	---	---	---
11	6.7	5.6	6.2	9.4	8.7	9.0	12.4	10.8	11.4	---	---	---
12	8.3	6.0	7.3	9.3	8.9	9.1	12.3	11.1	11.5	---	---	---
13	7.9	6.5	6.8	9.6	9.0	9.2	12.2	11.1	11.5	---	---	---
14	8.4	6.6	7.3	9.5	9.1	9.2	11.5	10.3	11.0	---	---	---
15	8.4	7.4	8.0	9.3	8.5	9.0	12.0	10.5	11.0	---	---	---
16	8.2	7.7	8.0	10.0	8.8	9.2	11.7	10.2	11.1	---	---	---
17	8.4	7.8	8.0	9.9	9.1	9.5	---	---	---	---	---	---
18	8.4	7.8	8.1	10.4	9.3	9.8	---	---	---	---	---	---
19	8.7	7.9	8.3	11.0	9.2	10.1	---	---	---	---	---	---
20	9.3	8.0	8.4	11.3	10.0	10.6	---	---	---	---	---	---
21	8.8	8.2	8.4	11.5	9.8	10.8	---	---	---	---	---	---
22	8.6	7.8	8.2	10.9	9.8	10.4	---	---	---	---	---	---
23	8.8	7.6	8.1	10.8	10.2	10.5	---	---	---	---	---	---
24	9.3	8.2	8.6	11.1	10.0	10.3	---	---	---	---	---	---
25	9.0	8.4	8.7	11.0	9.8	10.3	---	---	---	---	---	---
26	8.9	8.1	8.4	10.2	8.8	9.8	---	---	---	---	---	---
27	8.6	8.2	8.4	10.0	8.9	9.6	---	---	---	---	---	---
28	9.2	8.4	8.8	9.8	9.2	9.5	---	---	---	---	---	---
29	9.5	8.6	9.0	10.2	9.5	9.8	---	---	---	---	---	---
30	9.2	7.8	8.4	11.2	9.6	10.4	---	---	---	---	---	---
31	8.8	7.7	8.2	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	11.5	7.4	9.5	---	---	---	---	---	---

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

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (MG/L), TOP, 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	9.6	6.9	8.3	7.6	5.7	6.7	6.7	2.6	4.4	---	---	---
2	10.3	6.8	8.9	7.8	5.6	6.5	6.0	.5	4.1	---	---	---
3	10.6	7.2	8.8	7.8	6.3	6.9	6.0	.3	3.0	---	---	---
4	8.4	7.2	7.7	7.2	6.2	6.8	5.2	.3	3.1	---	---	---
5	8.9	6.8	7.7	7.6	5.2	6.5	7.7	1.7	5.0	---	---	---
6	8.8	6.5	8.0	7.4	3.8	6.3	7.7	4.1	5.9	---	---	---
7	8.6	6.4	7.3	7.7	5.8	6.9	7.3	2.5	4.9	---	---	---
8	8.8	7.1	7.9	8.3	4.8	6.6	6.5	1.5	4.0	---	---	---
9	8.7	6.8	7.9	7.0	3.7	5.9	6.1	1.1	3.5	---	---	---
10	9.5	7.1	8.0	7.9	3.5	5.9	7.0	1.6	5.3	---	---	---
11	9.2	7.2	8.1	8.5	5.5	7.1	7.7	2.2	5.8	---	---	---
12	9.0	3.9	7.1	7.5	6.1	6.9	8.1	3.2	6.0	---	---	---
13	7.3	2.4	5.6	8.0	5.2	6.7	8.8	4.8	6.4	11.7	6.5	9.1
14	7.7	2.1	5.2	8.4	3.8	6.4	7.1	5.6	6.5	9.4	7.0	8.8
15	6.7	1.6	4.7	---	---	---	7.3	4.8	6.1	8.7	7.2	7.8
16	6.3	2.2	4.6	9.6	5.0	7.1	6.7	3.7	5.8	8.0	6.1	7.2
17	---	---	---	9.0	4.4	7.5	6.6	.9	5.5	8.2	6.4	7.1
18	7.1	5.4	6.2	10.7	6.5	8.1	6.8	4.9	5.8	7.5	5.0	6.6
19	7.9	5.6	6.6	8.5	4.3	6.8	7.1	4.5	5.8	7.1	5.1	5.9
20	7.7	5.8	6.7	7.4	3.8	5.9	6.8	5.6	6.2	7.2	4.8	6.0
21	8.5	3.5	6.6	7.4	5.3	6.5	8.5	6.0	7.0	7.8	5.5	6.4
22	7.5	5.8	6.3	7.5	5.3	6.4	8.3	6.2	7.3	8.1	6.6	7.5
23	7.7	4.7	6.1	7.1	5.2	6.4	7.7	5.6	6.6	7.4	6.2	6.8
24	9.2	4.5	6.7	7.6	5.1	6.1	7.8	5.8	7.1	9.6	6.0	7.1
25	8.3	6.6	7.5	6.6	4.7	6.0	7.5	4.5	6.7	8.0	5.7	7.3
26	7.8	5.9	6.9	9.4	4.8	6.4	8.2	6.4	7.2	8.1	5.4	6.7
27	7.1	5.8	6.4	9.9	4.2	7.9	7.9	4.5	6.7	10.2	6.6	7.5
28	7.7	3.8	6.5	9.5	5.2	7.5	9.1	3.4	6.4	9.6	7.2	8.2
29	6.9	5.3	6.1	7.6	2.5	4.9	8.3	6.2	7.0	8.8	7.9	8.3
30	7.5	5.1	6.5	5.7	1.5	3.5	7.1	6.0	6.6	9.0	8.2	8.5
31	---	---	---	4.9	1.2	3.3	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	---	---	---	8.0	6.6	7.3	11.5	10.7	11.1	---	---	---
2	---	---	---	8.9	6.7	7.7	12.6	10.9	11.6	---	---	---
3	---	---	---	8.7	7.9	8.3	12.2	11.2	11.7	---	---	---
4	---	---	---	8.5	7.9	8.2	12.1	11.0	11.8	---	---	---
5	---	---	---	8.7	8.2	8.4	12.1	10.6	11.6	---	---	---
6	6.5	5.2	5.7	9.0	8.3	8.6	11.9	9.7	11.1	---	---	---
7	7.8	5.7	6.4	9.1	8.5	8.7	11.9	10.9	11.3	---	---	---
8	8.3	6.9	7.5	9.1	8.5	8.9	---	---	---	---	---	---
9	7.9	5.7	6.5	9.2	8.5	8.8	12.5	11.0	11.7	---	---	---
10	7.4	6.3	6.7	9.4	8.6	9.0	12.1	8.6	11.2	---	---	---
11	6.6	5.9	6.2	9.2	8.5	8.9	---	---	---	---	---	---
12	8.1	4.7	7.0	9.2	8.9	9.1	---	---	---	---	---	---
13	7.6	6.5	6.7	9.5	9.0	9.2	---	---	---	---	---	---
14	8.1	6.6	7.2	9.4	8.8	9.2	---	---	---	---	---	---
15	8.2	7.1	7.8	9.3	8.4	8.9	---	---	---	---	---	---
16	8.2	7.7	7.9	9.9	8.5	9.1	---	---	---	---	---	---
17	8.2	7.7	7.8	10.0	9.0	9.5	---	---	---	---	---	---
18	8.1	7.6	7.9	10.2	9.2	9.5	---	---	---	---	---	---
19	8.6	7.6	8.1	10.6	9.0	9.6	---	---	---	---	---	---
20	8.6	7.7	8.1	11.0	9.4	10.4	---	---	---	---	---	---
21	8.5	7.7	8.1	11.6	8.5	10.6	---	---	---	---	---	---
22	8.3	7.5	7.9	11.1	8.7	10.5	---	---	---	---	---	---
23	8.7	7.4	7.8	11.1	10.6	10.8	---	---	---	---	---	---
24	8.6	7.6	8.2	11.1	10.3	10.7	---	---	---	---	---	---
25	8.5	7.8	8.2	11.1	10.1	10.6	---	---	---	---	---	---
26	8.2	7.5	7.8	10.8	8.4	10.1	---	---	---	---	---	---
27	8.0	7.5	7.7	10.3	9.2	9.8	---	---	---	---	---	---
28	8.8	7.8	8.1	10.2	9.1	9.7	---	---	---	---	---	---
29	8.4	7.1	8.0	10.5	9.1	9.9	---	---	---	---	---	---
30	8.1	7.1	7.5	11.5	9.9	10.6	---	---	---	---	---	---
31	7.7	6.6	7.2	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	11.6	6.6	9.4	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, 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	---	---	---	7.6	4.0	5.6	11.6	9.6	10.5	8.9	4.5	7.0
2	---	---	---	9.3	3.8	6.5	11.7	5.4	9.9	9.3	5.7	7.9
3	---	---	---	9.9	3.8	6.5	10.0	3.9	8.8	9.9	5.5	7.9
4	---	---	---	---	---	---	11.0	8.6	9.5	8.5	5.7	7.4
5	---	---	---	---	---	---	9.5	8.3	8.9	8.2	2.8	6.0
6	---	---	---	10.1	4.8	7.8	10.3	7.8	9.0	7.7	1.7	4.3
7	---	---	---	11.9	3.9	9.3	9.5	6.9	8.2	4.7	2.4	3.4
8	---	---	---	11.0	6.0	9.6	9.6	6.1	8.1	9.1	2.3	3.6
9	---	---	---	10.6	2.7	6.9	---	---	---	7.5	1.1	4.6
10	---	---	---	9.7	4.0	6.7	8.7	5.8	7.6	7.7	1.6	5.0
11	12.1	10.6	11.7	8.1	2.8	5.8	9.2	5.6	7.3	7.2	3.0	5.5
12	12.0	10.8	11.6	9.2	7.0	8.4	---	---	---	7.2	2.0	4.7
13	11.5	10.4	11.3	10.2	8.5	9.3	8.9	5.5	7.4	7.2	2.3	5.1
14	11.3	10.1	10.9	10.9	8.8	9.8	8.0	5.0	7.0	7.7	2.3	4.7
15	11.0	10.0	10.7	11.7	9.8	10.5	8.1	4.8	6.4	7.6	3.8	5.8
16	10.7	9.0	10.5	10.6	7.9	9.6	9.4	4.9	6.8	7.5	5.1	6.3
17	---	---	---	10.0	8.9	9.4	7.9	4.4	5.9	7.3	2.6	5.6
18	---	---	---	9.8	8.8	9.1	8.7	5.1	7.4	8.2	3.3	6.1
19	---	---	---	9.6	8.3	8.6	9.5	7.0	8.5	7.6	5.2	6.6
20	---	---	---	---	---	---	8.2	5.6	7.2	9.2	4.9	6.6
21	11.9	10.8	11.3	8.5	7.2	7.9	9.1	5.2	7.3	8.0	3.8	6.0
22	---	---	---	7.7	6.8	7.3	10.1	7.1	8.7	7.6	3.7	6.0
23	11.7	10.2	11.0	8.8	6.0	7.0	10.6	7.6	9.2	8.0	2.5	5.9
24	11.0	9.1	10.6	7.8	6.0	6.9	11.2	6.7	8.9	8.8	1.7	6.0
25	11.2	7.2	10.0	9.4	5.5	6.9	10.0	7.4	9.1	8.0	3.4	6.1
26	10.8	6.5	8.6	9.5	5.0	7.1	10.9	4.4	8.6	7.7	2.8	5.7
27	9.7	5.1	7.8	9.0	4.3	5.9	---	---	---	7.0	.8	4.5
28	10.6	7.1	9.2	8.7	4.9	7.2	8.1	3.2	6.2	8.2	1.9	5.6
29	10.8	5.7	8.0	11.1	6.5	9.2	10.0	3.0	7.1	6.9	4.0	6.2
30	---	---	---	10.9	7.5	9.4	10.4	3.4	7.4	7.5	5.6	6.8
31	---	---	---	11.3	8.6	10.2	---	---	---	7.8	5.0	6.6
MONTH	---	---	---	---	---	---	---	---	---	9.9	.8	5.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	4.1	5.7	7.9	5.4	7.0	3.3	.1	.9	6.7	3.4	5.1
2	8.7	3.0	5.7	6.8	4.9	5.8	1.5	.0	.2	6.4	2.2	4.3
3	---	---	---	8.3	4.9	6.6	3.6	.1	.7	5.9	2.1	4.3
4	7.6	5.5	6.8	8.0	4.4	6.3	4.3	.1	.4	6.4	2.0	3.2
5	7.2	3.0	5.3	7.6	2.9	6.2	5.1	.1	1.5	8.3	2.8	6.6
6	7.6	3.0	6.0	6.7	3.2	5.4	4.9	.2	1.8	8.3	4.9	7.7
7	6.4	4.5	5.6	7.2	4.9	6.3	---	---	---	---	---	---
8	6.3	2.9	5.1	7.4	2.6	5.8	---	---	---	---	---	---
9	5.7	1.6	3.5	6.9	.9	5.0	---	---	---	---	---	---
10	5.6	1.0	2.7	7.5	3.8	6.1	---	---	---	---	---	---
11	3.7	.5	1.3	7.9	4.6	6.6	4.7	.2	1.5	---	---	---
12	5.5	.4	2.0	7.2	3.7	6.3	6.6	1.2	3.3	---	---	---
13	4.3	.1	1.4	7.4	2.5	5.4	7.8	.7	5.0	8.0	1.5	5.5
14	5.6	.7	2.7	6.7	2.2	4.8	6.8	2.3	5.5	5.7	1.8	4.3
15	5.8	.5	2.8	---	---	---	6.2	2.0	4.8	5.9	1.5	3.3
16	5.9	.3	2.9	6.9	1.3	4.7	6.5	.5	3.6	7.5	1.3	5.9
17	---	---	---	7.2	2.0	4.7	6.3	.5	4.5	7.4	3.1	5.5
18	6.5	2.4	4.6	7.2	3.2	5.9	6.6	4.2	5.2	7.2	3.5	6.0
19	6.7	2.3	5.2	6.3	.8	2.7	6.5	2.6	5.2	7.0	3.9	5.7
20	6.2	4.6	5.4	7.2	1.2	5.0	6.1	5.1	5.7	6.9	3.6	5.6
21	6.3	3.9	5.3	7.1	3.0	5.8	7.7	5.6	6.5	7.1	2.6	4.9
22	7.4	5.1	6.1	7.3	4.7	6.1	6.7	4.0	5.5	7.9	2.7	5.8
23	7.0	3.9	5.6	6.8	4.2	5.9	6.2	3.8	5.0	7.4	2.7	5.9
24	7.2	1.8	5.3	6.5	3.6	5.4	8.2	4.1	6.3	6.7	2.2	5.2
25	7.7	2.4	4.9	6.3	3.6	5.7	8.1	4.0	6.4	6.7	1.2	3.2
26	6.8	1.8	4.5	7.9	1.6	5.5	8.8	4.8	6.7	7.2	1.2	5.2
27	6.9	3.7	5.6	8.9	1.5	5.8	6.8	2.6	4.4	9.4	6.1	7.2
28	7.2	2.2	5.9	6.1	.9	2.9	7.8	2.2	4.8	10.0	7.1	8.2
29	6.9	4.6	6.1	3.7	1.1	2.1	8.4	2.7	6.1	9.3	7.8	8.5
30	7.5	4.8	6.4	4.4	.6	1.8	7.5	2.7	6.6	9.0	8.1	8.5
31	---	---	---	2.5	.6	1.2	7.2	4.5	6.3	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	77	89	103	98	100	---	---	---
2	---	---	---	100	81	89	103	95	100	---	---	---
3	---	---	---	96	91	94	107	96	101	---	---	---
4	---	---	---	93	85	90	107	101	104	---	---	---
5	---	---	---	93	85	89	114	101	105	---	---	---
6	76	60	66	98	88	94	112	102	107	---	---	---
7	90	64	74	99	91	95	107	99	103	---	---	---
8	94	76	85	98	92	95	---	---	---	---	---	---
9	87	68	74	96	86	89	122	102	108	---	---	---
10	85	70	78	96	88	91	115	106	109	---	---	---
11	76	64	71	99	88	92	118	101	107	---	---	---
12	96	68	84	96	91	93	114	102	107	---	---	---
13	90	74	77	100	92	94	115	103	107	---	---	---
14	97	75	84	99	92	94	109	99	105	---	---	---
15	95	83	91	94	86	91	115	101	106	---	---	---
16	93	87	90	97	87	90	111	97	105	---	---	---
17	96	88	91	96	89	92	---	---	---	---	---	---
18	95	89	92	99	89	93	---	---	---	---	---	---
19	98	88	93	107	89	98	---	---	---	---	---	---
20	105	89	93	111	97	103	---	---	---	---	---	---
21	97	90	92	113	97	106	---	---	---	---	---	---
22	93	84	89	108	96	104	---	---	---	---	---	---
23	93	81	86	110	102	105	---	---	---	---	---	---
24	96	86	89	114	100	104	---	---	---	---	---	---
25	94	86	89	114	99	104	---	---	---	---	---	---
26	93	83	86	105	89	100	---	---	---	---	---	---
27	88	84	86	102	89	98	---	---	---	---	---	---
28	95	85	91	99	92	95	---	---	---	---	---	---
29	99	88	93	102	94	97	---	---	---	---	---	---
30	96	81	87	105	96	100	---	---	---	---	---	---
31	94	81	86	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	114	77	96	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	99	91	96	135	102	119	122	69	108
2	---	---	---	97	79	92	126	87	117	119	101	111
3	---	---	---	101	84	94	122	91	104	118	86	100
4	---	---	---	---	---	---	129	94	107	108	93	101
5	---	---	---	---	---	---	110	98	102	118	78	103
6	---	---	---	106	88	97	115	96	103	130	83	109
7	---	---	---	114	95	102	116	91	99	129	87	109
8	---	---	---	114	96	102	126	86	102	118	78	103
9	---	---	---	110	84	100	105	95	99	110	61	94
10	---	---	---	115	67	95	120	84	101	112	71	98
11	103	99	101	98	72	88	111	92	100	114	65	100
12	105	97	101	93	73	87	118	90	101	115	91	102
13	100	96	97	102	85	93	99	86	92	123	91	109
14	101	96	98	108	91	100	100	86	90	119	86	110
15	100	96	98	119	95	107	92	76	84	113	95	105
16	99	96	97	113	93	104	108	83	95	117	95	108
17	---	---	---	109	94	101	119	84	101	116	98	105
18	---	---	---	103	97	100	95	64	86	120	93	107
19	---	---	---	107	97	101	89	83	86	120	100	108
20	---	---	---	---	---	---	110	78	86	138	102	113
21	103	96	100	110	97	103	96	65	83	134	84	109
22	103	91	96	105	99	102	99	84	88	106	82	98
23	103	88	93	108	95	101	107	83	94	122	61	98
24	108	89	96	121	98	106	118	84	104	115	86	99
25	105	93	97	115	102	107	106	89	99	121	87	103
26	108	95	100	122	101	110	115	90	99	120	80	103
27	104	90	99	117	98	109	---	---	---	120	87	103
28	100	86	95	115	90	102	112	77	102	107	70	87
29	102	86	95	121	78	102	130	94	111	86	71	81
30	---	---	---	116	98	106	140	107	124	92	80	85
31	---	---	---	121	100	109	---	---	---	111	76	94
MONTH	---	---	---	---	---	---	---	---	---	138	61	102

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, 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	117	85	100	106	80	94	96	37	61	---	---	---
2	132	86	111	111	77	91	85	8	57	---	---	---
3	140	89	112	110	87	96	85	4	42	---	---	---
4	106	90	97	100	85	94	70	4	42	---	---	---
5	112	85	97	108	71	90	103	24	67	---	---	---
6	112	81	100	105	53	88	108	57	81	---	---	---
7	108	80	91	107	80	96	102	36	68	---	---	---
8	112	88	98	117	68	93	93	21	57	---	---	---
9	112	86	98	97	52	82	87	16	50	---	---	---
10	124	88	102	112	51	83	99	23	76	---	---	---
11	121	92	104	121	79	101	108	34	82	---	---	---
12	118	51	91	107	88	98	112	46	84	---	---	---
13	97	32	74	112	76	94	122	67	88	157	83	118
14	103	29	69	118	53	89	97	77	88	124	92	115
15	90	22	63	---	---	---	102	66	83	113	93	102
16	86	29	61	136	71	98	94	51	80	102	77	90
17	---	---	---	127	63	106	93	13	77	100	79	88
18	97	75	85	156	92	115	95	66	81	91	62	81
19	111	76	91	120	62	97	98	62	81	88	63	73
20	106	79	91	106	53	85	94	78	86	90	60	74
21	122	48	91	104	75	92	114	81	94	97	68	80
22	106	79	88	107	74	90	109	84	97	100	83	94
23	111	66	85	100	73	90	105	74	89	92	79	85
24	128	62	93	105	72	85	107	78	97	122	75	90
25	117	92	104	90	65	82	103	62	92	102	71	92
26	109	82	96	129	66	88	112	87	99	102	67	83
27	101	81	90	136	57	109	111	65	94	124	80	91
28	109	53	91	132	70	103	128	48	90	116	86	99
29	96	74	85	103	35	67	117	88	99	106	95	101
30	106	70	90	79	22	48	101	88	95	106	97	101
31	---	---	---	68	16	46	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	---	---	---	85	67	76	102	99	100	---	---	---
2	---	---	---	95	70	81	104	96	100	---	---	---
3	---	---	---	91	80	85	108	99	103	---	---	---
4	---	---	---	86	80	83	107	99	104	---	---	---
5	---	---	---	87	81	84	109	96	104	---	---	---
6	74	60	65	91	83	86	110	88	101	---	---	---
7	88	64	73	92	85	88	109	100	103	---	---	---
8	93	77	84	91	86	88	---	---	---	---	---	---
9	89	64	72	93	84	87	114	101	106	---	---	---
10	84	71	76	96	87	90	110	79	102	---	---	---
11	76	68	71	94	87	90	---	---	---	---	---	---
12	92	54	81	96	90	93	---	---	---	---	---	---
13	86	72	76	97	90	93	---	---	---	---	---	---
14	93	75	82	96	90	94	---	---	---	---	---	---
15	92	80	88	94	85	90	---	---	---	---	---	---
16	92	85	88	95	86	90	---	---	---	---	---	---
17	94	86	89	94	88	91	---	---	---	---	---	---
18	92	86	89	97	88	91	---	---	---	---	---	---
19	96	85	89	100	86	92	---	---	---	---	---	---
20	96	86	91	108	91	101	---	---	---	---	---	---
21	95	84	88	114	83	103	---	---	---	---	---	---
22	88	79	84	110	85	104	---	---	---	---	---	---
23	92	79	83	112	104	108	---	---	---	---	---	---
24	87	80	84	112	102	107	---	---	---	---	---	---
25	86	79	82	114	100	107	---	---	---	---	---	---
26	85	77	80	109	83	102	---	---	---	---	---	---
27	81	77	79	104	92	99	---	---	---	---	---	---
28	89	79	83	101	92	97	---	---	---	---	---	---
29	88	72	82	103	91	98	---	---	---	---	---	---
30	82	72	76	106	97	101	---	---	---	---	---	---
31	78	67	73	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	114	67	93	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, 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	---	---	---	74	39	54	124	101	111	98	49	76
2	---	---	---	93	36	63	125	58	106	102	63	87
3	---	---	---	99	37	64	109	42	96	109	60	88
4	---	---	---	---	---	---	126	94	106	97	63	84
5	---	---	---	---	---	---	105	89	96	94	32	68
6	---	---	---	99	47	77	110	83	95	88	19	49
7	---	---	---	120	39	92	102	74	89	54	28	39
8	---	---	---	110	59	95	108	67	89	107	27	42
9	---	---	---	106	28	69	---	---	---	88	12	54
10	---	---	---	100	41	69	92	62	81	95	18	60
11	100	89	98	85	30	60	100	60	78	88	36	67
12	104	92	99	97	73	88	---	---	---	89	24	57
13	98	88	95	105	88	96	98	60	81	89	28	63
14	97	87	94	111	90	100	86	53	74	97	28	60
15	96	86	94	122	100	108	87	51	68	93	48	73
16	96	78	93	111	83	101	104	52	73	92	63	77
17	---	---	---	107	94	100	87	47	64	91	32	69
18	---	---	---	101	92	95	97	55	81	100	42	75
19	---	---	---	99	85	90	100	76	91	94	65	82
20	---	---	---	---	---	---	88	61	77	118	62	83
21	109	98	103	89	75	82	102	56	80	102	49	76
22	---	---	---	80	69	76	110	79	96	97	48	76
23	106	92	99	87	63	71	118	82	101	102	32	75
24	101	83	96	78	64	71	123	73	98	113	21	75
25	103	65	91	95	57	71	108	81	99	104	43	78
26	98	59	78	99	53	74	119	48	94	98	35	73
27	92	48	73	96	46	63	---	---	---	91	7	57
28	104	67	88	93	53	78	86	36	66	106	22	71
29	105	54	76	118	70	98	107	32	76	84	49	76
30	---	---	---	116	80	100	114	38	79	89	67	80
31	---	---	---	121	91	108	---	---	---	90	61	77
MONTH	---	---	---	---	---	---	---	---	---	118	7	70

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	92	49	69	111	75	98	47	1	12	91	46	68
2	105	35	69	94	69	81	21	0	3	88	30	58
3	---	---	---	115	69	92	51	1	9	80	28	58
4	95	70	85	110	62	88	60	1	5	86	27	43
5	87	36	65	105	41	87	69	2	21	110	38	88
6	94	35	73	95	46	76	70	2	25	108	64	100
7	78	54	68	100	69	88	---	---	---	---	---	---
8	78	35	63	104	36	80	---	---	---	---	---	---
9	70	18	43	95	13	70	---	---	---	---	---	---
10	68	9	32	105	54	84	---	---	---	---	---	---
11	44	3	14	112	63	92	69	3	21	---	---	---
12	68	4	25	100	52	89	93	17	46	---	---	---
13	56	2	19	102	35	75	107	8	69	104	19	71
14	74	9	35	93	31	66	92	33	75	76	22	56
15	78	7	38	---	---	---	84	28	66	78	20	44
16	78	4	38	95	18	66	91	7	50	96	16	75
17	---	---	---	101	28	67	88	6	63	91	39	68
18	89	32	62	103	46	84	93	60	73	89	45	75
19	93	32	72	90	12	39	91	37	73	88	50	71
20	85	63	74	103	16	72	86	70	78	86	45	70
21	88	53	72	99	43	82	105	76	88	90	34	62
22	106	71	85	104	66	86	91	54	73	100	34	74
23	98	55	78	96	60	83	84	51	67	94	35	75
24	100	25	73	89	50	74	112	55	86	85	28	65
25	108	33	69	86	49	78	109	54	87	84	14	40
26	94	26	63	109	23	75	117	64	89	91	14	65
27	97	51	78	122	20	80	91	34	60	116	75	88
28	101	32	83	83	12	40	105	30	65	121	84	99
29	97	65	85	51	15	30	114	36	82	113	95	103
30	106	68	90	62	10	25	101	36	89	106	97	101
31	---	---	---	34	9	17	98	61	84	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02093000 NEW RIVER NEAR GUM BRANCH, NC

LOCATION.--Lat 34°50'56", long 77°31'11", Onslow County, Hydrologic Unit 03030001, on right bank 5 ft downstream of Secondary Road 1314, 0.7 mi downstream of Jenkins Swamp, 1.8 mi southwest of Gum Branch, and 3.8 mi southeast of Richlands.

DRAINAGE AREA.--94 mi^2.

PERIOD OF RECORD.--August 1949 to September 1973. July 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Aug. 19, 1949, to Mar. 22, 1950, nonrecording gage and Mar. 23, 1950, to Mar. 25, 1969, water-stage recorder at site 0.2 mi upstream at 2.52 ft. Mar. 26, 1969, to Sept. 1973 water-stage recorder at present site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good except those below 20 ft^3/s, which are poor. Maximum discharge for period of record from rating curve extended above 3,000 ft^3/s by logarithmic plotting. Minimum discharge for period of record also occurred Oct. 3, 4, 1993. Minimum discharge for current water year also occurred July 21. Low flows affected by tide.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1908 reached a stage of about 18 ft at former site and datum, from information by local resident.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	132	94	59	495	68	99	184	45	25	125	122
2	240	206	91	58	361	65	94	144	39	25	100	100
3	208	333	89	57	270	65	92	109	36	24	111	99
4	197	254	85	59	225	62	87	79	45	22	137	101
5	250	208	83	64	191	62	75	68	63	22	256	205
6	223	175	82	62	166	60	71	59	64	27	147	240
7	198	154	87	60	150	57	65	50	58	32	101	174
8	174	141	83	62	138	55	60	46	46	25	83	130
9	157	131	77	64	128	54	58	41	42	22	66	96
10	144	125	76	94	124	52	52	38	34	19	58	76
11	135	116	73	146	119	49	47	34	30	17	50	67
12	172	108	71	115	111	76	44	32	27	17	47	58
13	161	105	70	97	132	72	66	30	25	18	44	52
14	146	102	74	85	211	62	83	27	23	17	41	50
15	130	96	71	76	257	55	201	26	22	18	40	50
16	119	91	68	72	208	56	378	26	22	17	36	44
17	391	89	65	69	170	637	302	25	19	16	48	40
18	1160	87	64	68	145	694	317	31	19	17	42	155
19	1320	85	68	73	135	362	307	24	35	17	51	507
20	976	84	77	87	124	241	234	21	58	15	44	377
21	845	83	74	93	110	427	184	21	33	15	37	242
22	711	88	77	87	101	454	151	159	33	20	35	165
23	496	87	80	128	95	320	118	216	39	30	33	330
24	350	85	75	310	89	237	88	146	30	130	29	530
25	276	84	69	563	87	189	119	90	25	140	30	456
26	233	86	67	687	82	158	196	68	22	358	36	461
27	204	164	66	538	78	137	153	56	20	349	36	311
28	180	132	65	348	77	132	183	50	19	186	34	234
29	162	115	62	260	72	120	257	60	19	115	39	186
30	149	104	60	254	---	109	230	50	28	88	112	156
31	140	---	60	492	---	105	---	46	---	141	166	---
TOTAL	10537	3850	2303	5287	4651	5292	4411	2056	1020	1984	2214	5814
MEAN	340	128	74.3	171	160	171	147	66.3	34.0	64.0	71.4	194
MAX	1320	333	94	687	495	694	378	216	64	358	256	530
MIN	119	83	60	57	72	49	44	21	19	15	29	40
CFSM	3.62	1.37	.79	1.81	1.71	1.82	1.56	.71	.36	.68	.76	2.06
IN.	4.17	1.52	.91	2.09	1.84	2.09	1.75	.81	.40	.79	.88	2.30

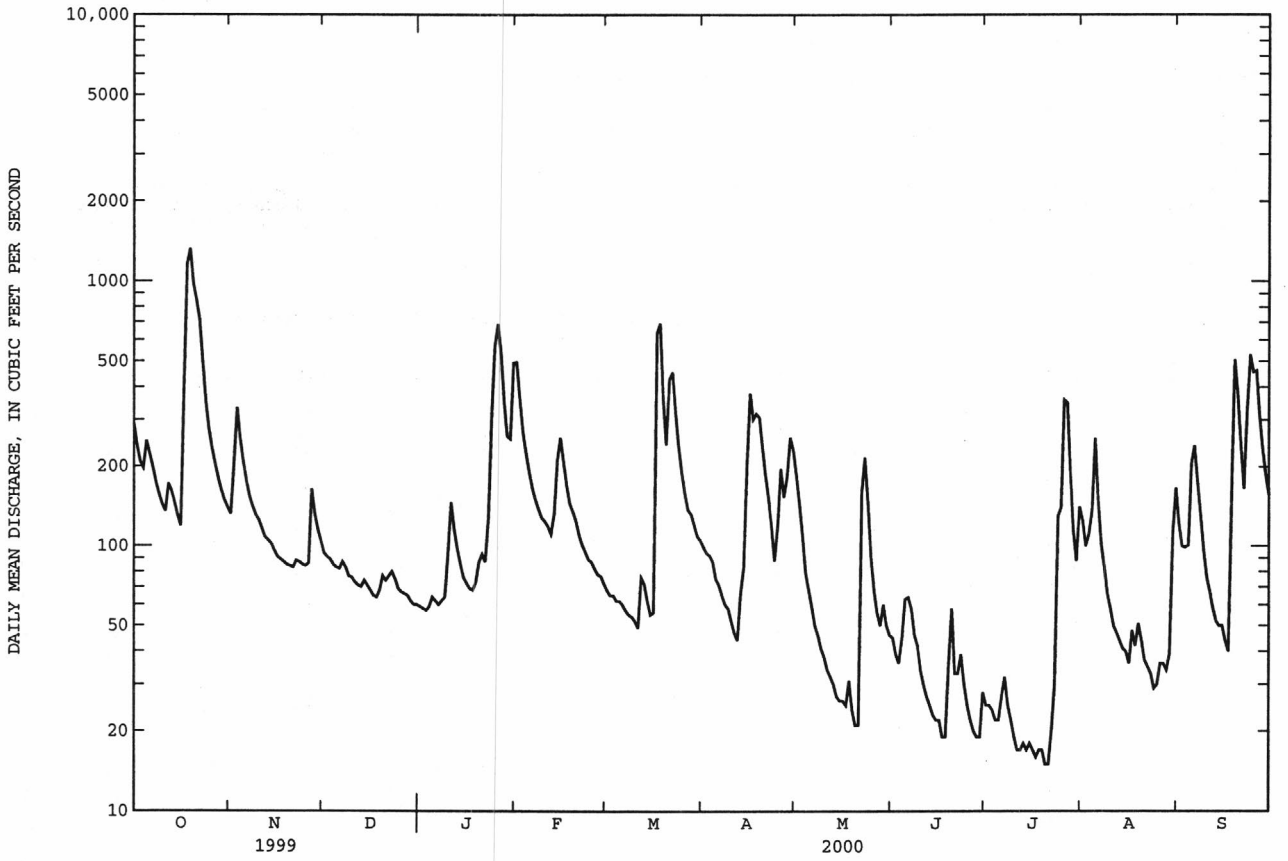
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000[@], BY WATER YEAR (WY)

MEAN	81.7	63.6	92.6	160	181	179	115	69.5	89.2	115	109	128
MAX	553	190	277	374	584	418	377	188	423	717	734	1110
(WY)	1972	1970	1958	1993	1998	1959	1973	1969	1961	1962	1955	1999
MIN	2.01	4.30	13.3	32.4	33.1	27.7	21.0	16.4	11.3	7.21	6.25	4.25
(WY)	1955	1955	1955	1955	1955	1955	1955	1957	1970	1993	1954	1954

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000[@]	
ANNUAL TOTAL	65482.4		49419			
ANNUAL MEAN	179		135		115	
HIGHEST ANNUAL MEAN					208	1972
LOWEST ANNUAL MEAN					59.9	1953
HIGHEST DAILY MEAN	10100	Sep 16	1320	Oct 19	10100	Sep 16 1999
LOWEST DAILY MEAN	7.4	Jun 11	15	Jul 20	1.9	Oct 6 1954
ANNUAL SEVEN-DAY MINIMUM	9.3	Jun 6	16	Jul 15	2.0	Oct 4 1954
INSTANTANEOUS PEAK FLOW			1390	Oct 19	15000*	Sep 16 1999
INSTANTANEOUS PEAK STAGE			14.60	Oct 19	25.12	Sep 16 1999
INSTANTANEOUS LOW FLOW			13*	Jul 20	1.8*	Oct 7 1954
ANNUAL RUNOFF (CFSM)	1.91		1.44		1.23	
ANNUAL RUNOFF (INCHES)	25.91		19.56		16.69	
10 PERCENT EXCEEDS	282		294		248	
50 PERCENT EXCEEDS	74		85		54	
90 PERCENT EXCEEDS	15		26		12	

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

02093000 NEW RIVER NEAR GUM BRANCH, NC--Continued



0209318667 NEW RIVER AT CHANNEL LIGHT 50

LOCATION.--Lat 34°41'51", long 77°24'15", Onslow County, Hydrologic Unit 03030001, at U.S. Coast Guard Channel Light 50.

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

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): November 1999 to September 2000.

pH (TOP AND BOTTOM): November 1999 to September 2000.

WATER TEMPERATURE (TOP AND BOTTOM): November 1999 to September 2000.

DISSOLVED OXYGEN (TOP AND BOTTOM): November 1999 to September 2000.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): November 1999 to September 2000.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 1999 to September 2000.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	23.7, January 25	2.0, September 26
SALINITY (BOTTOM), ppt	25.2, July 3	4.6, May 29, September 29
pH (TOP), standard units	8.8, November 21	6.7, September 25
pH (BOTTOM), standard units	8.3, April 21, May 1	6.6, September 28
WATER TEMPERATURE (TOP), °C	32.5, July 18	1.5, January 28, 29
WATER TEMPERATURE (BOTTOM), °C	30.4, August 11	2.0, January 28
DISSOLVED OXYGEN (TOP), mg/L	15.6, January 30	1.2, September 9
DISSOLVED OXYGEN (BOTTOM), mg/L	13.4, January 30	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	178, July 8	15, September 9
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	123, February 19	<10, on many days during the year

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

SALINITY (PARTS PER THOUSAND), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	14.0	13.4	13.8	17.3	15.8	16.9
2	---	---	---	---	---	---	14.1	12.0	13.5	17.1	15.5	16.7
3	---	---	---	---	---	---	13.8	12.2	13.3	17.4	16.6	16.8
4	---	---	---	---	---	---	13.7	12.9	13.3	17.7	16.8	17.3
5	---	---	---	---	---	---	13.5	11.8	13.1	17.6	16.6	17.2
6	---	---	---	---	---	---	13.8	13.1	13.3	17.8	17.1	17.4
7	---	---	---	---	---	---	14.0	12.9	13.5	17.4	16.2	16.9
8	---	---	---	---	---	---	14.3	10.8	13.4	17.9	15.7	16.7
9	---	---	---	---	---	---	---	---	---	17.5	16.1	17.0
10	---	---	---	---	---	---	14.6	10.5	13.5	17.8	15.3	16.8
11	---	---	---	---	---	---	14.8	13.2	14.1	17.5	16.0	16.9
12	---	---	---	---	---	---	14.4	12.7	13.8	17.0	15.2	16.4
13	---	---	---	---	---	---	14.5	13.3	14.0	17.3	16.0	16.6
14	---	---	---	---	---	---	14.5	13.8	14.3	17.8	16.3	17.2
15	---	---	---	---	---	---	14.5	12.6	13.8	17.5	15.4	16.9
16	---	---	---	---	---	---	14.9	13.8	14.3	17.3	15.3	16.9
17	---	---	---	---	---	---	14.4	12.8	13.9	16.9	16.1	16.6
18	---	---	---	---	---	---	14.6	12.9	14.2	---	---	---
19	---	---	---	9.5	7.9	8.9	14.7	14.0	14.4	---	---	---
20	---	---	---	9.4	8.1	8.9	15.3	13.3	14.6	19.1	14.7	17.4
21	---	---	---	9.9	8.5	9.0	15.0	13.3	14.1	18.5	17.3	17.9
22	---	---	---	9.9	8.7	9.3	16.9	14.1	15.3	18.9	15.6	17.4
23	---	---	---	10.3	9.1	9.8	16.6	14.8	15.5	19.1	15.7	17.7
24	---	---	---	12.3	8.6	10.0	18.2	14.8	15.8	21.9	16.6	19.5
25	---	---	---	10.9	8.5	9.6	19.7	15.8	17.1	23.7	14.1	18.7
26	---	---	---	13.0	9.9	11.1	17.2	14.8	16.7	18.5	13.7	17.0
27	---	---	---	13.2	10.0	11.9	17.3	16.3	17.1	16.6	10.3	15.0
28	---	---	---	13.1	11.0	12.3	17.4	13.6	17.0	15.7	10.3	13.3
29	---	---	---	12.9	12.0	12.7	17.4	16.8	17.2	13.4	10.9	12.6
30	---	---	---	15.1	12.8	13.9	17.3	16.2	17.0	12.8	7.9	11.2
31	---	---	---	---	---	---	17.2	16.6	17.0	13.0	7.6	11.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.0	8.4	11.0	13.0	9.1	11.3	---	---	---	10.7	4.8	9.6
2	12.2	10.4	11.2	13.1	9.1	12.2	---	---	---	10.7	9.1	10.0
3	11.4	8.0	10.6	13.3	9.3	12.8	---	---	---	---	---	---
4	10.8	7.1	9.8	13.3	12.6	13.0	---	---	---	---	---	---
5	10.8	9.2	10.0	13.4	12.6	12.9	---	---	---	---	---	---
6	10.4	8.3	9.4	13.5	12.2	12.9	---	---	---	---	---	---
7	10.2	8.9	9.5	13.9	10.2	13.2	---	---	---	---	---	---
8	10.1	6.9	9.2	14.0	10.2	13.4	---	---	---	---	---	---
9	10.3	8.7	9.6	13.9	13.3	13.7	---	---	---	---	---	---
10	10.3	8.9	9.8	14.5	11.8	13.9	---	---	---	---	---	---
11	10.2	8.9	9.3	14.7	14.0	14.4	---	---	---	11.1	10.3	10.6
12	---	---	---	15.7	14.1	14.8	---	---	---	11.2	10.1	10.5
13	10.7	9.0	10.1	15.2	14.0	14.6	---	---	---	11.1	10.4	10.8
14	11.6	8.9	10.7	14.9	13.5	14.2	---	---	---	11.3	10.6	10.9
15	11.9	10.1	11.3	14.3	9.3	13.1	14.1	11.4	12.3	11.8	10.6	11.2
16	11.8	10.0	10.9	14.7	10.9	13.7	13.7	8.6	11.6	12.1	10.5	11.0
17	11.4	10.2	10.9	14.9	13.9	14.4	11.9	8.9	10.9	12.4	10.4	11.3
18	11.3	10.0	10.7	15.3	11.0	14.2	12.2	7.4	10.3	12.0	11.0	11.6
19	11.6	9.9	10.8	14.6	13.0	14.2	12.2	10.4	11.4	12.4	11.5	11.9
20	12.2	10.5	11.2	15.2	12.1	13.9	12.2	8.5	10.2	12.4	11.1	12.0
21	11.8	9.9	11.1	14.3	11.8	13.4	11.5	9.2	10.3	12.6	11.6	12.1
22	11.6	10.4	11.0	15.5	12.4	13.8	10.9	9.3	9.9	12.9	12.6	12.7
23	11.2	9.4	10.4	15.1	12.6	14.3	10.5	8.9	9.7	13.0	11.2	12.2
24	11.1	8.4	10.0	14.6	12.2	13.4	10.0	7.0	9.5	13.0	11.7	12.5
25	10.7	8.7	9.7	13.6	9.6	12.8	10.6	8.4	9.7	12.9	10.6	11.8
26	10.9	9.5	10.3	13.1	11.0	12.2	11.3	8.8	10.0	12.4	11.3	11.8
27	11.6	8.7	10.8	13.8	12.2	12.9	11.3	9.2	10.1	12.8	11.7	12.4
28	11.9	10.4	11.0	---	---	---	10.9	8.3	9.6	13.9	11.7	13.0
29	12.3	9.9	11.1	---	---	---	10.6	8.1	9.5	14.3	13.3	13.9
30	---	---	---	---	---	---	10.9	4.8	9.7	15.3	13.6	14.6
31	---	---	---	---	---	---	---	---	---	15.5	12.9	14.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

SALINITY (PARTS PER THOUSAND), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.7	12.8	14.1	18.1	16.7	17.4	15.7	11.9	13.2	15.0	13.3	14.1
2	14.4	13.8	14.0	18.6	16.5	17.1	14.5	11.6	12.8	15.6	12.3	13.8
3	15.6	13.9	14.6	19.2	16.7	17.9	14.3	11.5	12.7	15.5	12.3	13.7
4	15.6	14.3	14.7	19.2	18.0	18.6	13.1	10.3	12.1	14.6	10.6	13.2
5	14.6	13.6	14.0	19.2	17.7	18.5	13.7	9.3	11.3	14.6	12.1	13.0
6	18.0	11.8	15.0	19.3	18.3	18.7	12.8	9.6	11.0	14.6	12.5	13.6
7	18.2	12.8	17.0	19.2	18.4	18.7	12.0	8.8	10.6	14.2	12.4	13.6
8	18.1	13.7	17.3	20.2	18.7	19.2	11.1	9.6	10.3	14.0	11.8	13.1
9	17.7	16.3	17.3	20.3	18.5	19.5	11.1	9.2	10.2	12.9	10.5	11.5
10	18.1	16.1	17.5	20.6	19.6	20.2	11.5	8.1	10.6	14.2	10.1	12.5
11	17.9	16.7	17.6	20.3	18.7	19.8	11.8	8.9	10.2	13.1	9.3	11.5
12	18.0	17.5	17.7	---	---	---	10.9	9.6	10.1	14.6	10.8	12.5
13	18.1	17.4	17.7	---	---	---	12.3	10.0	10.7	15.9	10.5	14.1
14	18.2	17.7	17.9	---	---	---	14.2	11.0	12.2	16.1	12.0	13.9
15	18.3	18.0	18.2	---	---	---	15.3	11.3	12.4	14.6	11.9	13.3
16	18.3	17.9	18.1	---	---	---	13.1	12.0	12.6	14.9	13.6	14.2
17	18.6	17.9	18.2	---	---	---	13.0	12.2	12.7	15.0	13.9	14.3
18	18.6	17.7	18.0	22.4	19.9	20.8	13.3	11.5	12.9	14.6	12.6	13.8
19	18.4	17.7	18.1	21.7	20.7	21.1	13.4	12.6	12.9	13.5	8.4	11.2
20	18.1	17.3	17.8	22.2	21.0	21.6	13.3	12.4	12.8	10.2	5.9	8.1
21	18.2	17.1	17.7	22.1	21.4	21.8	13.2	12.4	12.8	7.1	4.5	6.1
22	18.2	17.3	17.7	22.2	21.3	21.9	14.1	12.8	13.2	7.5	3.5	5.4
23	17.9	15.7	16.6	22.3	21.1	21.7	14.7	12.5	13.1	6.9	3.0	4.8
24	17.3	14.4	16.7	21.7	19.0	20.8	13.9	12.9	13.4	6.0	2.5	4.3
25	17.5	15.7	16.8	20.1	16.7	18.7	15.3	12.6	13.4	4.7	2.3	3.3
26	17.7	16.5	17.0	20.2	14.2	17.8	15.0	13.5	13.8	4.5	2.0	2.9
27	17.9	16.5	17.1	19.9	15.3	18.6	14.6	13.5	14.0	4.6	3.2	3.6
28	18.1	16.6	17.3	20.2	11.9	16.4	14.6	13.8	14.2	4.0	3.3	3.7
29	17.9	16.7	17.4	17.8	10.7	14.8	14.8	13.9	14.2	5.0	3.6	4.2
30	17.9	16.8	17.4	14.9	11.3	13.5	15.5	14.2	14.7	5.3	3.8	4.5
31	---	---	---	15.2	10.9	13.2	15.1	13.7	14.3	---	---	---
MONTH	18.6	11.8	16.9	---	---	---	15.7	8.1	12.4	16.1	2.0	10.1

SALINITY (PARTS PER THOUSAND), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	13.9	13.3	13.6	---	---	---
2	---	---	---	---	---	---	14.5	13.5	13.8	---	---	---
3	---	---	---	---	---	---	14.9	13.9	14.4	---	---	---
4	---	---	---	---	---	---	16.1	14.3	15.2	---	---	---
5	---	---	---	---	---	---	16.5	14.6	15.8	---	---	---
6	---	---	---	---	---	---	17.9	13.0	15.2	---	---	---
7	---	---	---	---	---	---	17.4	13.0	14.3	---	---	---
8	---	---	---	---	---	---	18.1	15.1	16.3	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	18.4	13.9	16.4	---	---	---
11	---	---	---	---	---	---	18.4	15.3	17.2	---	---	---
12	---	---	---	---	---	---	18.2	17.2	17.8	---	---	---
13	---	---	---	---	---	---	17.8	14.5	15.9	---	---	---
14	---	---	---	---	---	---	17.6	14.2	15.5	17.9	16.3	17.3
15	---	---	---	---	---	---	17.5	14.3	15.9	17.7	17.0	17.5
16	---	---	---	---	---	---	17.3	13.9	14.8	17.7	16.7	17.2
17	---	---	---	---	---	---	16.5	14.1	15.6	18.2	16.3	16.8
18	---	---	---	---	---	---	16.3	14.7	15.8	---	---	---
19	---	---	---	16.9	12.6	15.9	16.3	14.1	14.9	---	---	---
20	---	---	---	17.0	15.5	16.5	20.9	15.0	17.5	23.0	18.1	19.6
21	---	---	---	17.7	14.0	16.7	20.9	18.6	20.1	20.1	17.7	18.4
22	---	---	---	18.1	16.1	17.3	20.7	17.5	19.7	20.5	18.9	19.9
23	---	---	---	18.3	16.7	17.8	20.8	16.8	19.7	21.8	20.1	20.8
24	---	---	---	18.2	17.4	17.8	21.8	17.7	20.2	24.6	20.5	22.4
25	---	---	---	17.9	16.0	17.6	21.8	18.1	19.8	24.4	17.9	20.1
26	---	---	---	17.6	13.2	16.4	20.3	16.9	18.4	19.6	17.0	18.5
27	---	---	---	16.8	12.5	14.9	18.4	16.9	17.3	18.2	15.5	17.0
28	---	---	---	15.6	12.7	14.5	18.4	17.0	17.7	18.7	15.0	17.1
29	---	---	---	15.3	13.5	14.7	18.8	16.9	17.4	18.6	17.1	17.9
30	---	---	---	15.1	13.1	14.0	18.1	16.9	17.6	18.5	12.9	16.6
31	---	---	---	---	---	---	18.6	16.9	17.3	18.0	13.0	15.3
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	17.7	13.7	16.2	19.0	12.4	16.7	---	---	---	20.1	12.1	17.6
2	16.9	11.5	15.0	18.1	13.0	16.1	---	---	---	18.3	13.7	15.5
3	16.7	10.5	13.9	17.5	13.6	16.5	---	---	---	17.3	13.0	15.2
4	16.5	11.0	13.5	17.5	12.9	15.0	---	---	---	17.3	11.9	14.3
5	14.6	10.1	11.6	20.5	14.6	17.2	---	---	---	17.0	13.4	14.3
6	14.3	9.9	11.9	21.5	18.2	19.9	---	---	---	15.9	12.7	14.5
7	13.9	10.5	12.8	20.9	13.6	18.9	---	---	---	---	---	---
8	14.1	9.8	11.9	20.9	16.2	19.7	---	---	---	---	---	---
9	16.4	9.8	14.2	20.3	13.5	17.7	---	---	---	---	---	---
10	18.9	14.0	17.9	19.2	14.7	16.2	---	---	---	---	---	---
11	18.5	15.4	17.6	16.6	14.1	14.9	---	---	---	11.6	10.8	11.3
12	---	---	---	15.5	14.1	14.9	---	---	---	11.7	10.7	11.4
13	18.1	16.9	17.7	15.1	14.1	14.6	---	---	---	12.8	11.1	11.6
14	18.0	10.7	14.2	15.0	14.3	14.7	---	---	---	13.8	11.0	11.7
15	16.7	10.4	14.1	16.5	14.5	15.2	14.4	13.5	14.2	14.8	11.5	12.8
16	16.8	11.4	14.3	18.8	14.0	15.4	16.6	14.0	15.2	18.1	11.8	14.3
17	15.9	10.8	12.0	16.5	13.9	14.6	17.2	11.4	15.2	18.1	11.5	15.0
18	16.4	9.8	12.9	15.2	13.8	14.6	17.8	11.8	14.3	13.6	11.8	12.4
19	16.7	11.1	12.1	15.7	14.0	14.7	13.0	11.6	12.2	13.4	11.9	12.8
20	12.9	11.1	11.9	16.2	13.5	14.6	14.5	11.4	13.1	14.5	12.2	12.9
21	14.0	11.3	13.1	20.2	14.7	16.6	13.9	10.9	12.4	14.4	12.4	13.3
22	17.3	13.2	15.3	23.9	14.4	19.4	14.8	11.2	12.8	14.3	12.6	13.2
23	18.9	16.7	18.1	17.9	14.3	15.3	16.1	11.2	13.7	14.6	12.4	13.3
24	19.9	17.6	18.9	21.4	12.2	18.3	16.7	11.2	14.8	16.0	13.0	14.3
25	20.0	17.5	19.3	21.1	12.5	18.5	17.3	11.8	15.4	15.9	13.0	14.7
26	19.9	17.8	19.4	19.6	15.7	18.5	17.5	12.6	15.1	16.3	5.8	15.4
27	19.9	11.3	16.2	19.4	13.4	16.0	17.9	12.3	16.1	15.9	5.2	14.0
28	19.3	11.3	16.1	---	---	---	17.8	12.3	16.3	16.1	9.5	14.7
29	19.2	17.8	18.6	---	---	---	19.6	15.4	17.2	17.1	4.6	13.8
30	---	---	---	---	---	---	20.4	17.7	19.4	15.6	14.2	15.0
31	---	---	---	---	---	---	---	---	---	17.7	14.8	16.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	17.3	18.8	21.4	18.8	19.6	18.6	13.9	17.0	16.4	14.4	15.8
2	20.2	18.4	19.5	24.5	21.2	22.9	17.3	14.7	16.3	16.7	14.5	15.9
3	20.3	16.6	19.4	25.2	19.0	23.5	16.3	13.1	15.3	16.6	13.8	15.7
4	21.4	19.1	20.1	23.8	19.3	22.4	15.5	13.9	14.8	16.5	15.4	15.8
5	22.8	20.8	22.1	23.2	20.1	22.2	15.1	13.5	14.5	17.3	15.0	16.5
6	24.0	20.7	22.8	23.0	21.7	22.5	14.7	12.2	14.0	17.4	13.0	15.0
7	23.9	20.9	22.7	22.9	22.3	22.7	13.9	12.0	13.2	14.6	13.2	13.9
8	22.8	18.4	21.4	23.5	22.6	23.1	13.1	10.4	12.4	14.4	13.0	13.8
9	21.4	17.9	19.9	23.7	19.9	22.0	12.6	10.7	12.0	16.1	13.7	15.2
10	20.0	18.1	18.6	22.8	20.2	21.4	12.7	10.6	12.0	16.5	15.2	16.0
11	18.6	17.6	18.2	22.6	20.2	21.2	13.5	12.1	12.7	16.7	15.7	16.3
12	18.4	17.9	18.2	---	---	---	15.2	13.3	14.3	17.2	15.7	16.6
13	18.4	17.7	18.0	---	---	---	17.8	15.1	16.4	17.9	16.3	17.1
14	18.6	17.9	18.3	---	---	---	18.9	15.7	17.7	17.5	16.5	17.1
15	18.6	18.1	18.4	---	---	---	18.6	16.6	17.8	17.1	16.4	16.9
16	18.8	18.3	18.5	---	---	---	18.6	16.0	17.4	17.1	14.6	16.4
17	18.8	18.2	18.6	---	---	---	18.1	13.1	15.8	16.9	14.3	15.7
18	18.8	18.2	18.6	23.9	22.1	22.9	17.3	13.1	14.4	15.9	13.5	14.3
19	18.7	18.2	18.5	24.5	21.1	22.5	15.2	13.0	13.7	16.5	13.0	15.4
20	18.4	17.9	18.2	23.3	21.7	22.4	13.5	13.0	13.3	15.4	13.1	14.4
21	18.5	17.7	18.2	23.3	21.9	22.4	14.9	12.6	13.5	14.7	12.5	14.2
22	18.7	17.8	18.4	22.9	21.9	22.4	17.4	14.5	16.1	14.4	12.2	13.9
23	19.0	18.1	18.7	22.4	21.7	22.2	17.5	14.9	16.7	14.2	9.2	12.4
24	18.7	17.3	18.4	22.4	21.2	21.9	17.0	15.5	16.2	12.8	9.3	11.5
25	18.8	17.4	17.9	22.3	20.1	21.3	17.1	15.6	16.7	12.6	9.6	11.7
26	18.2	17.3	17.8	21.9	21.0	21.6	17.0	16.2	16.7	11.6	7.3	10.4
27	18.4	17.3	18.0	22.1	21.1	21.7	16.6	15.5	16.2	11.0	7.2	9.7
28	18.2	17.1	17.9	21.9	20.7	21.4	16.2	14.8	15.7	9.7	7.3	9.0
29	18.5	17.7	18.1	21.4	19.3	20.6	16.0	14.7	15.5	9.3	4.6	7.6
30	19.6	17.6	18.7	20.4	16.3	19.5	16.2	14.1	14.9	10.9	8.2	9.4
31	---	---	---	19.7	16.9	18.4	16.6	15.1	16.0	---	---	---
MONTH	24.0	16.6	19.0	---	---	---	18.9	10.4	15.1	17.9	4.6	14.1

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	8.1	7.8	7.9	8.1	8.0	8.0
2	---	---	---	---	---	---	8.1	7.9	8.0	8.2	8.0	8.1
3	---	---	---	---	---	---	8.1	8.0	8.0	8.2	8.1	8.1
4	---	---	---	---	---	---	8.1	8.0	8.0	8.1	8.0	8.1
5	---	---	---	---	---	---	8.2	7.9	8.1	8.1	8.0	8.1
6	---	---	---	---	---	---	8.1	8.0	8.1	8.1	8.0	8.1
7	---	---	---	---	---	---	8.1	7.9	8.0	8.1	8.0	8.1
8	---	---	---	---	---	---	8.2	8.0	8.1	8.3	8.0	8.1
9	---	---	---	---	---	---	---	---	---	8.2	8.0	8.1
10	---	---	---	---	---	---	8.2	8.0	8.1	8.2	8.0	8.1
11	---	---	---	---	---	---	8.1	7.8	8.0	8.2	8.0	8.1
12	---	---	---	---	---	---	8.1	7.9	8.0	8.3	8.0	8.1
13	---	---	---	---	---	---	8.0	7.9	8.0	8.2	7.9	8.1
14	---	---	---	---	---	---	8.0	7.8	7.9	8.0	7.9	8.0
15	---	---	---	---	---	---	7.9	7.7	7.8	8.1	7.9	8.0
16	---	---	---	---	---	---	7.9	7.8	7.8	8.0	7.9	8.0
17	---	---	---	---	---	---	8.1	7.8	7.9	8.0	7.9	8.0
18	---	---	---	---	---	---	8.0	7.8	7.9	---	---	---
19	---	---	---	8.6	8.3	8.4	7.9	7.7	7.8	---	---	---
20	---	---	---	8.6	8.2	8.5	7.9	7.7	7.8	8.0	7.9	7.9
21	---	---	---	8.8	8.2	8.5	7.9	7.8	7.8	7.9	7.9	7.9
22	---	---	---	8.6	8.2	8.5	7.9	7.8	7.8	8.0	7.9	7.9
23	---	---	---	8.5	8.1	8.4	8.0	7.8	7.8	7.9	7.9	7.9
24	---	---	---	8.5	7.8	8.3	8.0	7.8	7.9	7.9	7.9	7.9
25	---	---	---	8.7	8.1	8.5	8.1	7.8	7.9	7.9	7.7	7.8
26	---	---	---	8.6	8.2	8.4	8.0	7.9	8.0	7.8	7.7	7.7
27	---	---	---	8.3	8.0	8.2	8.0	7.9	7.9	7.7	7.5	7.7
28	---	---	---	8.3	7.8	8.1	8.1	7.9	8.0	7.7	7.5	7.6
29	---	---	---	8.3	8.0	8.1	8.0	7.9	8.0	7.6	7.4	7.6
30	---	---	---	8.1	7.5	7.8	8.1	7.9	8.0	7.6	7.2	7.5
31	---	---	---	---	---	---	8.1	7.9	8.0	7.6	7.3	7.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.5	7.3	7.5	8.0	7.8	7.9	7.9	7.6	7.8	8.3	7.6	8.0
2	7.5	7.4	7.5	7.9	7.6	7.7	7.9	7.6	7.7	8.0	7.5	7.7
3	7.5	7.3	7.5	7.8	7.6	7.7	7.8	7.6	7.6	7.9	7.5	7.7
4	7.5	7.3	7.4	7.7	7.5	7.6	7.6	7.4	7.5	7.9	7.5	7.8
5	7.5	7.4	7.4	7.7	7.4	7.6	7.6	7.4	7.5	8.0	7.5	7.8
6	7.5	7.4	7.4	7.7	7.5	7.6	7.6	7.4	7.5	8.1	7.6	7.8
7	7.5	7.4	7.5	7.9	7.6	7.7	7.7	7.4	7.5	8.0	7.7	7.8
8	7.6	7.4	7.5	7.8	7.6	7.7	7.8	7.5	7.7	7.9	7.6	7.8
9	7.6	7.5	7.5	7.8	7.7	7.7	7.7	7.6	7.6	7.8	7.6	7.7
10	7.7	7.5	7.6	7.9	7.7	7.8	7.8	7.5	7.6	7.7	7.4	7.6
11	7.6	7.5	7.6	7.8	7.6	7.7	7.8	7.3	7.6	7.8	7.5	7.6
12	---	---	---	7.7	7.4	7.6	7.8	7.5	7.6	7.8	7.5	7.7
13	7.9	7.6	7.7	7.7	7.5	7.6	7.7	7.5	7.6	7.8	7.6	7.7
14	7.7	7.6	7.6	7.8	7.4	7.6	7.9	7.5	7.7	7.9	7.5	7.7
15	7.8	7.5	7.6	8.0	7.4	7.7	8.0	7.7	7.9	7.8	7.4	7.6
16	7.8	7.6	7.7	7.9	7.6	7.8	8.3	7.7	8.0	7.9	7.5	7.7
17	7.7	7.6	7.7	7.8	7.7	7.7	8.4	7.9	8.2	7.8	7.4	7.6
18	7.7	7.5	7.6	8.0	7.6	7.8	8.3	7.6	7.9	7.7	7.4	7.6
19	7.8	7.6	7.7	7.9	7.7	7.8	7.9	7.5	7.7	7.7	7.4	7.5
20	7.8	7.5	7.7	7.9	7.6	7.8	8.1	7.6	7.9	7.7	7.4	7.6
21	7.9	7.7	7.8	7.8	7.5	7.7	8.1	7.9	8.0	7.7	7.5	7.6
22	7.9	7.7	7.8	7.8	7.5	7.7	8.0	7.8	7.9	7.6	7.4	7.5
23	8.0	7.7	7.9	7.9	7.6	7.8	7.9	7.7	7.8	7.7	7.4	7.5
24	8.1	7.8	7.9	8.0	7.7	7.9	8.0	7.5	7.8	7.6	7.3	7.5
25	8.1	7.8	8.0	8.1	7.7	7.9	7.7	7.5	7.6	7.9	7.4	7.7
26	8.2	7.9	8.1	8.0	7.6	7.8	7.8	7.4	7.5	8.0	7.8	7.9
27	8.1	7.9	8.0	7.9	7.6	7.7	7.8	7.5	7.7	8.1	7.9	8.0
28	8.0	7.8	7.9	7.8	7.5	7.7	7.8	7.4	7.6	8.0	7.7	7.9
29	8.0	7.7	7.9	7.8	7.5	7.7	7.7	7.4	7.5	7.8	7.6	7.7
30	---	---	---	7.8	7.5	7.7	7.7	7.4	7.6	8.0	7.7	7.9
31	---	---	---	7.8	7.6	7.7	---	---	---	8.1	7.8	7.9
MONTH	---	---	---	8.1	7.4	7.7	8.4	7.3	7.7	8.3	7.3	7.7

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.2	7.7	8.0	8.1	7.8	8.0	8.0	7.6	7.8	7.8	7.5	7.6
2	8.2	7.8	8.0	8.0	7.7	7.8	8.1	7.3	7.8	7.8	7.3	7.6
3	8.2	7.8	8.1	8.0	7.7	7.9	8.0	7.6	7.9	7.7	7.2	7.6
4	8.0	7.7	7.9	7.9	7.6	7.8	8.1	7.5	7.7	7.7	7.3	7.5
5	8.1	7.8	7.9	7.9	7.6	7.8	8.1	7.2	7.7	7.6	7.3	7.5
6	8.1	7.5	7.8	8.0	7.6	7.7	8.1	7.4	7.8	7.5	7.3	7.4
7	8.0	7.7	7.8	8.1	7.6	7.8	8.0	7.5	7.7	7.6	7.4	7.5
8	8.0	7.6	7.9	8.3	7.7	7.9	8.1	7.3	7.8	7.6	7.3	7.4
9	8.0	7.7	7.9	8.0	7.9	7.9	8.2	7.8	8.0	7.4	7.2	7.3
10	8.2	7.8	7.9	7.9	7.7	7.8	8.4	7.8	8.0	7.5	7.2	7.4
11	8.0	7.8	7.9	7.8	7.6	7.7	8.1	7.3	7.8	7.5	7.2	7.4
12	8.0	7.8	7.9	---	---	---	8.1	7.5	7.8	7.5	7.2	7.3
13	8.0	7.8	7.9	---	---	---	8.1	7.6	7.8	7.9	7.2	7.4
14	8.1	7.8	8.0	---	---	---	8.0	7.5	7.7	8.0	7.1	7.5
15	8.1	7.9	8.0	---	---	---	8.0	7.4	7.8	7.9	7.4	7.7
16	8.1	7.8	8.0	---	---	---	8.1	7.3	7.7	7.8	7.2	7.6
17	8.1	7.8	8.0	---	---	---	7.9	7.6	7.8	7.8	7.5	7.7
18	8.1	7.8	8.0	8.2	7.9	8.0	8.1	7.5	7.8	7.7	7.4	7.5
19	8.1	7.8	7.9	8.1	8.0	8.0	8.0	7.7	7.8	7.5	7.1	7.3
20	8.1	7.7	7.9	8.1	7.9	8.0	8.2	7.8	8.0	7.3	6.8	7.1
21	8.1	7.7	7.9	8.1	8.0	8.0	8.0	7.8	7.9	7.3	6.8	7.0
22	8.0	7.8	7.9	8.2	8.0	8.0	8.0	7.7	7.8	7.3	6.8	7.0
23	8.2	7.9	8.1	8.1	7.9	8.0	8.0	7.8	7.9	7.3	6.9	7.1
24	8.4	8.1	8.2	8.1	7.7	7.9	8.1	7.8	7.9	7.2	6.9	7.1
25	8.4	8.1	8.3	8.0	7.6	7.9	8.0	7.3	7.8	7.1	6.7	6.9
26	8.4	8.3	8.4	8.1	7.6	7.9	8.1	7.4	7.8	7.2	6.8	7.0
27	8.5	7.9	8.2	8.1	7.6	7.9	8.0	7.8	7.9	7.3	6.9	7.1
28	8.0	7.9	7.9	8.2	7.7	8.0	8.0	7.8	7.9	7.2	6.9	7.1
29	8.0	7.8	7.9	8.1	7.8	7.9	7.9	7.6	7.8	7.1	6.8	6.9
30	8.1	7.8	7.9	8.0	7.7	7.9	7.8	7.5	7.7	7.1	7.0	7.1
31	---	---	---	7.9	7.4	7.8	7.7	7.4	7.6	---	---	---
MONTH	8.5	7.5	8.0	---	---	---	8.4	7.2	7.8	8.0	6.7	7.3

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

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

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.3	7.4	8.0	7.4	7.8	7.9	7.1	7.3	7.8	7.3	7.6
2	7.6	7.3	7.4	8.0	7.5	7.7	7.5	7.0	7.2	7.6	7.3	7.5
3	7.5	7.2	7.3	8.1	7.4	7.6	7.7	6.9	7.2	7.8	7.2	7.3
4	7.5	7.1	7.2	8.0	7.5	7.7	7.4	7.0	7.2	7.7	7.2	7.5
5	7.5	7.1	7.2	7.8	7.4	7.5	7.5	6.9	7.1	7.4	7.1	7.2
6	7.5	7.1	7.3	7.8	7.4	7.6	7.5	6.8	6.9	7.5	7.2	7.3
7	7.6	7.2	7.4	7.6	7.3	7.5	7.6	6.9	7.2	7.5	7.2	7.3
8	7.7	7.2	7.3	7.6	7.2	7.4	8.0	6.8	7.3	7.4	7.1	7.2
9	7.8	7.0	7.3	7.9	7.2	7.6	7.7	7.0	7.3	7.1	6.9	7.0
10	7.8	7.1	7.6	7.9	7.3	7.6	7.9	7.0	7.3	7.1	6.9	7.0
11	7.8	7.5	7.7	7.8	7.3	7.6	7.7	7.1	7.3	7.0	7.0	7.0
12	7.8	7.6	7.7	---	---	---	7.4	7.1	7.3	7.1	7.0	7.0
13	7.9	7.6	7.8	---	---	---	7.4	7.2	7.3	7.5	7.0	7.2
14	8.1	7.7	7.9	---	---	---	7.5	7.1	7.3	7.3	7.2	7.2
15	8.0	7.9	8.0	---	---	---	7.2	7.1	7.1	7.3	7.2	7.2
16	8.2	7.8	7.9	---	---	---	7.3	7.1	7.1	7.7	7.3	7.4
17	8.0	7.8	7.9	---	---	---	7.8	7.1	7.2	8.0	7.3	7.5
18	8.0	7.8	7.9	7.8	7.5	7.6	7.8	7.0	7.4	7.9	7.5	7.8
19	7.9	7.8	7.8	8.0	7.4	7.7	7.9	7.1	7.5	7.7	7.1	7.4
20	7.9	7.6	7.8	8.0	7.7	7.9	8.0	7.6	7.8	7.3	7.0	7.1
21	8.0	7.7	7.9	8.0	7.7	7.9	7.9	7.6	7.7	7.2	7.0	7.1
22	8.0	7.7	7.9	8.0	7.7	7.9	7.8	7.3	7.6	7.1	7.0	7.0
23	8.0	7.8	7.9	8.0	7.8	7.9	7.6	7.2	7.3	7.1	6.9	6.9
24	8.0	7.4	7.8	7.9	7.7	7.8	7.9	7.2	7.5	7.0	6.9	6.9
25	8.1	7.5	7.9	7.9	7.6	7.7	7.8	7.2	7.4	6.9	6.8	6.9
26	8.2	7.9	8.0	7.9	7.2	7.5	7.5	7.2	7.3	6.9	6.8	6.9
27	8.0	7.6	7.9	7.6	7.2	7.3	7.7	7.1	7.2	7.0	6.8	6.9
28	8.0	7.7	7.8	7.4	7.1	7.2	7.7	7.1	7.2	6.8	6.6	6.8
29	8.0	7.8	7.9	7.3	7.1	7.1	7.9	7.1	7.4	7.2	6.7	6.9
30	8.0	7.5	7.7	7.5	7.0	7.1	7.9	7.6	7.8	7.1	6.9	6.9
31	---	---	---	7.6	7.0	7.1	7.8	7.5	7.7	---	---	---
MONTH	8.2	7.0	7.7	---	---	---	8.0	6.8	7.3	8.0	6.6	7.2

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

TEMPERATURE, WATER (DEG. C), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	13.4	10.3	11.5	11.9	8.0	9.0
2	---	---	---	---	---	---	10.5	8.8	9.6	12.0	8.7	9.7
3	---	---	---	---	---	---	10.4	8.6	9.6	11.2	9.8	10.6
4	---	---	---	---	---	---	11.3	9.2	10.0	13.8	10.8	11.9
5	---	---	---	---	---	---	11.6	9.5	10.8	13.8	11.7	12.8
6	---	---	---	---	---	---	12.8	11.6	12.2	12.1	11.3	11.6
7	---	---	---	---	---	---	12.6	11.5	12.0	11.6	10.9	11.4
8	---	---	---	---	---	---	12.4	8.8	11.2	12.4	9.8	10.9
9	---	---	---	---	---	---	---	---	---	12.3	10.4	11.1
10	---	---	---	---	---	---	12.9	10.8	12.2	12.3	11.5	11.9
11	---	---	---	---	---	---	13.1	11.1	12.4	12.2	11.5	11.9
12	---	---	---	---	---	---	12.8	9.4	11.7	13.1	10.6	11.9
13	---	---	---	---	---	---	13.2	11.7	12.6	12.8	11.6	12.1
14	---	---	---	---	---	---	14.2	13.0	13.6	12.1	9.3	10.6
15	---	---	---	---	---	---	14.3	13.2	13.6	9.5	8.0	8.7
16	---	---	---	---	---	---	13.6	12.4	13.1	8.6	7.8	8.4
17	---	---	---	---	---	---	12.6	10.4	12.0	8.6	7.6	8.2
18	---	---	---	---	---	---	12.1	10.6	11.8	7.6	5.6	6.5
19	---	---	---	14.9	12.2	13.5	12.2	11.5	11.9	6.3	5.2	5.7
20	---	---	---	15.8	14.3	15.1	12.7	12.1	12.3	6.3	5.0	5.9
21	---	---	---	16.8	15.2	16.0	13.1	12.4	12.6	5.9	4.4	5.2
22	---	---	---	17.7	16.2	16.9	12.7	11.8	12.4	5.1	3.3	4.3
23	---	---	---	18.4	16.9	17.6	11.8	10.5	11.1	4.9	4.1	4.5
24	---	---	---	19.3	17.3	18.1	11.0	9.4	10.5	5.0	4.5	4.7
25	---	---	---	20.3	17.9	19.0	10.9	7.5	8.9	4.9	3.3	4.0
26	---	---	---	19.5	18.8	19.1	7.7	6.1	7.1	4.0	2.8	3.4
27	---	---	---	19.5	17.8	18.6	8.2	6.8	7.3	3.6	2.2	2.8
28	---	---	---	17.8	16.2	17.2	7.8	4.2	7.2	3.5	1.5	2.3
29	---	---	---	17.2	16.1	16.6	7.6	6.7	7.2	3.3	1.5	2.4
30	---	---	---	16.7	13.3	14.8	8.2	6.4	7.5	3.7	2.3	3.1
31	---	---	---	---	---	---	9.6	7.5	8.4	4.6	3.4	3.9
MONTH	---	---	---	---	---	---	---	---	---	13.8	1.5	7.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.3	3.2	4.5	17.2	14.5	16.2	17.9	15.9	16.9	20.5	18.4	19.4
2	5.2	3.7	4.4	17.0	15.9	16.5	18.2	16.5	17.6	21.2	19.5	20.3
3	5.6	2.3	4.7	16.2	15.1	15.6	19.4	18.0	18.6	22.6	20.3	21.3
4	7.9	4.9	6.1	15.4	14.1	14.9	19.4	18.4	19.1	22.6	20.9	21.8
5	6.7	5.6	6.2	14.9	13.2	14.1	18.4	16.5	17.3	24.1	20.9	22.5
6	8.8	5.2	6.3	15.7	13.7	14.6	17.1	15.8	16.4	26.8	22.4	23.8
7	8.0	6.2	6.9	16.2	14.0	15.2	18.6	16.3	17.4	26.3	22.9	24.3
8	8.5	5.8	7.5	19.0	15.1	16.2	19.2	17.5	18.2	25.6	23.6	24.6
9	8.0	7.3	7.7	17.8	16.3	16.9	18.4	16.3	16.9	25.3	24.1	24.8
10	10.2	7.6	8.5	20.3	17.1	17.9	17.4	15.1	16.3	25.2	24.0	24.7
11	10.7	8.4	9.4	19.1	17.7	18.4	17.7	15.8	16.7	26.4	24.2	25.0
12	10.3	8.6	9.5	18.6	17.3	18.3	19.5	17.3	18.2	26.1	24.2	25.2
13	10.5	8.2	8.7	17.7	15.9	16.5	18.5	16.2	17.2	27.7	25.3	26.3
14	10.5	8.9	9.8	16.9	14.6	15.7	16.6	15.8	16.2	28.1	26.0	26.6
15	11.3	9.9	10.5	17.2	13.8	15.6	17.4	16.2	16.7	26.1	24.8	25.5
16	11.7	10.1	11.0	17.4	15.4	16.6	20.9	17.1	18.1	25.2	23.9	24.5
17	11.6	10.9	11.2	18.6	17.2	17.9	20.6	18.4	19.4	24.5	23.6	24.1
18	11.9	10.4	10.9	17.5	15.4	16.2	20.0	17.9	19.2	24.6	23.3	23.9
19	13.2	11.2	12.2	15.4	14.2	14.9	17.9	16.6	17.1	26.2	23.6	24.6
20	14.0	12.1	12.8	14.9	14.6	14.8	18.8	15.9	17.2	27.0	24.6	25.7
21	13.3	11.4	12.2	15.4	14.7	15.0	19.7	17.8	18.8	28.2	25.5	26.4
22	12.6	11.0	11.8	14.8	13.1	13.9	19.3	18.0	18.7	26.2	25.5	25.8
23	13.8	11.1	12.0	14.1	12.8	13.3	19.2	17.4	18.2	26.6	24.5	25.7
24	14.2	10.9	12.8	15.5	12.5	13.7	20.0	18.1	18.9	26.9	25.3	26.1
25	17.7	12.5	14.4	17.0	14.0	15.6	19.4	18.0	18.9	28.8	26.0	27.2
26	18.4	14.6	16.2	17.5	15.8	16.5	19.9	17.0	17.8	28.6	26.6	27.4
27	17.8	16.2	17.1	17.4	16.3	16.9	17.6	16.5	17.1	28.0	26.5	27.4
28	17.9	16.6	17.1	17.5	16.6	17.1	17.0	16.3	16.7	29.7	27.4	27.9
29	17.1	15.4	16.4	17.4	16.2	16.7	18.8	16.3	17.3	27.5	24.3	26.1
30	---	---	---	17.2	16.1	16.7	20.3	17.5	18.8	24.3	21.6	22.7
31	---	---	---	17.6	16.1	16.8	---	---	---	23.3	20.8	21.8
MONTH	18.4	2.3	10.3	20.3	12.5	16.0	20.9	15.1	17.7	29.7	18.4	24.6

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

TEMPERATURE, WATER (DEG. C), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.6	21.6	23.2	28.8	27.5	28.2	30.2	28.1	29.0	28.9	27.0	27.6
2	26.3	23.8	24.9	29.4	27.2	28.1	30.8	28.9	29.8	29.0	27.8	28.4
3	28.7	25.3	26.0	28.9	27.2	28.1	30.4	29.1	29.7	29.2	28.1	28.6
4	26.2	25.3	25.6	29.0	27.3	28.1	29.5	27.8	28.7	28.7	27.8	28.2
5	25.7	24.8	25.4	31.1	27.7	28.6	29.3	27.1	28.1	28.1	26.3	27.3
6	25.9	24.0	25.1	29.1	27.9	28.5	30.3	28.2	29.2	26.6	24.5	25.3
7	25.0	23.3	24.3	29.4	27.8	28.5	30.4	28.9	29.6	24.8	24.0	24.4
8	25.3	20.8	24.2	30.3	27.5	28.4	31.1	29.2	30.0	26.0	23.8	24.5
9	26.5	23.7	25.1	28.1	27.1	27.7	31.5	29.6	30.4	25.7	24.6	25.0
10	26.8	24.8	25.9	28.7	26.8	27.8	31.6	29.8	30.2	27.9	24.9	25.8
11	27.5	25.6	26.6	29.5	27.8	28.6	30.7	28.8	29.8	27.6	25.2	26.3
12	28.4	26.3	27.2	---	---	---	30.2	28.4	29.0	27.4	25.5	26.5
13	29.1	27.4	28.3	---	---	---	29.1	27.5	28.3	27.1	25.6	26.1
14	30.2	28.2	29.1	---	---	---	28.7	26.5	27.7	28.9	25.6	26.9
15	29.9	28.8	29.3	---	---	---	28.6	27.0	27.6	28.8	26.4	27.7
16	29.4	28.6	29.0	---	---	---	29.6	27.3	28.3	26.4	24.6	25.5
17	29.6	28.4	28.9	---	---	---	29.4	28.1	28.6	25.3	23.5	24.2
18	29.4	28.7	29.0	32.5	28.4	29.6	29.9	28.1	28.9	24.0	23.0	23.4
19	29.7	28.5	29.1	30.4	29.3	29.9	30.0	28.4	28.9	24.4	22.6	23.2
20	29.5	28.2	28.9	30.5	29.2	29.7	28.6	27.5	28.1	25.1	23.0	23.6
21	29.4	28.0	28.8	29.5	28.5	28.9	27.8	26.7	27.2	25.8	23.5	24.7
22	29.7	28.4	28.9	29.7	27.8	28.8	27.3	25.8	26.5	25.7	24.8	25.3
23	30.0	27.9	28.8	29.7	28.3	28.7	27.4	26.2	26.8	25.4	24.4	24.8
24	30.6	28.0	29.5	28.4	27.5	28.0	28.2	26.6	27.3	26.5	24.1	24.9
25	30.8	28.7	29.8	27.5	26.3	27.1	28.1	26.8	27.3	26.8	24.9	25.8
26	30.2	29.2	29.7	27.3	26.4	27.0	28.1	26.3	27.1	26.5	23.5	25.0
27	29.8	28.7	29.3	28.3	27.2	27.4	27.8	26.8	27.3	23.5	22.4	22.9
28	29.7	28.6	29.1	29.9	27.4	28.3	28.0	26.9	27.4	22.9	21.7	22.2
29	28.8	28.0	28.5	30.5	28.5	29.2	27.8	27.1	27.4	22.5	21.2	21.9
30	29.5	27.5	28.4	29.5	28.1	29.0	27.2	26.5	26.9	21.8	20.9	21.4
31	---	---	---	29.2	27.9	28.6	27.4	26.6	27.0	---	---	---
MONTH	30.8	20.8	27.5	---	---	---	31.6	25.8	28.3	29.2	20.9	25.2

TEMPERATURE, WATER (DEG. C), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	13.4	10.4	11.5	8.2	7.7	7.9
2	---	---	---	---	---	---	10.5	8.8	9.8	9.7	7.9	8.5
3	---	---	---	---	---	---	9.9	9.3	9.7	10.7	8.4	9.2
4	---	---	---	---	---	---	9.8	9.2	9.6	12.7	10.7	11.7
5	---	---	---	---	---	---	10.2	9.6	9.9	13.0	11.9	12.7
6	---	---	---	---	---	---	12.4	10.1	11.0	12.0	11.3	11.6
7	---	---	---	---	---	---	12.4	10.8	11.6	11.8	11.2	11.5
8	---	---	---	---	---	---	11.6	11.2	11.4	11.6	10.5	11.2
9	---	---	---	---	---	---	---	---	---	11.5	10.8	11.4
10	---	---	---	---	---	---	12.5	11.7	12.1	12.2	11.4	11.7
11	---	---	---	---	---	---	12.5	12.3	12.4	12.3	11.6	12.0
12	---	---	---	---	---	---	12.6	12.3	12.5	12.4	12.1	12.2
13	---	---	---	---	---	---	12.8	12.3	12.6	12.7	11.6	12.1
14	---	---	---	---	---	---	14.0	12.7	13.3	12.2	9.6	10.8
15	---	---	---	---	---	---	14.2	13.3	13.8	9.6	8.1	9.0
16	---	---	---	---	---	---	13.7	12.9	13.2	9.1	8.2	8.5
17	---	---	---	---	---	---	13.3	12.5	13.0	9.0	7.7	8.3
18	---	---	---	---	---	---	13.4	12.3	13.0	---	---	---
19	---	---	---	16.5	15.5	16.0	13.2	11.4	12.0	---	---	---
20	---	---	---	16.6	15.9	16.3	12.6	12.0	12.3	6.7	5.7	6.2
21	---	---	---	16.5	15.0	15.7	12.6	12.3	12.4	5.9	4.9	5.4
22	---	---	---	15.9	15.3	15.6	12.7	12.1	12.6	5.2	4.4	5.0
23	---	---	---	15.8	15.2	15.4	12.8	11.7	12.6	5.2	4.5	4.9
24	---	---	---	15.9	15.4	15.6	12.8	11.5	12.6	5.3	4.6	5.0
25	---	---	---	16.3	15.6	15.8	12.6	9.3	10.7	5.0	3.8	4.2
26	---	---	---	18.9	15.9	16.9	11.0	7.3	8.9	3.9	3.0	3.6
27	---	---	---	18.5	16.9	18.0	8.3	7.0	7.4	3.5	2.8	3.1
28	---	---	---	17.9	17.3	17.7	8.3	7.2	7.8	3.9	2.0	3.2
29	---	---	---	17.8	17.1	17.5	8.2	7.0	7.6	4.4	3.3	3.9
30	---	---	---	17.3	13.4	15.1	8.0	7.2	7.5	4.3	3.0	3.6
31	---	---	---	---	---	---	7.9	7.4	7.6	4.0	3.2	3.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.3	3.6	3.9	17.2	14.0	15.2	17.5	16.2	16.8	20.6	17.5	18.4
2	5.6	4.1	4.6	16.5	14.8	15.8	18.2	16.8	17.5	20.0	18.5	19.2
3	5.7	4.9	5.2	15.7	15.1	15.4	19.5	18.0	18.7	21.7	19.0	19.5
4	6.4	5.3	5.5	15.6	14.6	15.1	19.4	18.4	19.0	22.7	19.3	20.9
5	6.5	5.5	5.9	15.1	14.2	14.7	18.4	16.8	17.4	22.9	20.1	21.5
6	6.7	5.7	6.1	14.9	14.5	14.7	17.0	15.8	16.5	23.5	20.8	21.7
7	6.5	6.1	6.3	16.1	14.6	15.0	18.6	16.4	17.2	24.6	21.3	22.6
8	8.1	6.2	7.0	15.3	14.8	15.0	19.2	17.5	18.2	25.4	21.9	23.4
9	7.8	6.8	7.1	17.6	15.0	15.9	18.4	16.4	17.0	25.3	23.6	24.5
10	7.6	7.2	7.5	17.8	15.8	16.7	17.1	15.4	16.2	25.2	23.8	24.4
11	8.0	7.4	7.6	19.1	16.8	18.1	17.6	16.0	16.7	25.6	24.2	24.8
12	---	---	---	18.6	17.4	18.3	19.0	17.4	17.7	26.0	24.4	25.0
13	8.4	7.9	8.1	17.4	15.9	16.4	18.6	16.3	17.3	27.0	25.2	25.7
14	10.1	8.0	9.3	16.3	15.2	15.8	16.6	15.9	16.3	26.9	25.3	26.1
15	10.7	9.4	9.8	16.4	15.1	15.6	17.4	16.4	16.7	26.3	25.0	25.5
16	11.4	9.3	10.3	17.4	15.6	16.3	17.3	16.8	17.0	25.5	24.4	24.9
17	11.6	10.1	11.0	18.5	17.2	17.8	19.7	16.9	17.6	25.0	23.6	24.6
18	11.3	10.4	10.6	17.5	15.8	16.4	19.4	17.6	18.4	24.5	23.3	23.9
19	13.3	10.4	11.9	15.9	14.8	15.2	18.1	16.7	17.2	26.2	23.6	24.6
20	13.0	12.1	12.3	15.0	14.7	14.9	18.2	16.6	17.3	26.0	24.6	25.0
21	12.4	11.5	12.0	15.1	14.8	14.9	19.4	17.5	18.4	26.4	25.1	25.7
22	12.2	11.8	12.1	15.0	13.4	14.3	19.1	18.4	18.6	26.0	25.5	25.7
23	12.1	11.9	12.0	13.9	12.9	13.3	18.5	17.3	18.0	26.2	25.3	25.7
24	12.1	12.1	12.1	14.1	13.3	13.7	19.2	18.0	18.4	26.4	25.5	25.7
25	12.4	12.1	12.2	16.3	13.8	14.5	18.9	18.1	18.4	26.3	25.8	26.0
26	12.8	12.1	12.3	15.2	14.1	14.4	18.5	17.7	18.1	26.8	26.0	26.4
27	17.1	12.2	14.3	17.1	14.4	15.8	18.3	17.5	18.1	27.9	26.3	26.9
28	17.1	13.4	15.2	17.4	15.2	16.4	18.2	16.8	17.8	27.9	27.4	27.7
29	15.0	13.8	14.3	17.2	16.2	16.6	17.8	16.9	17.5	27.6	24.3	26.3
30	---	---	---	16.8	16.4	16.6	17.7	17.3	17.5	24.3	21.6	22.8
31	---	---	---	17.3	16.1	16.6	---	---	---	21.8	20.9	21.3
MONTH	---	---	---	19.1	12.9	15.7	19.7	15.4	17.6	27.9	17.5	24.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.8	21.2	21.6	28.6	27.9	28.3	29.6	28.2	28.6	27.4	26.9	27.1
2	22.2	21.7	21.9	28.4	28.1	28.3	29.8	28.3	28.9	28.1	27.1	27.4
3	25.1	22.0	22.6	28.7	28.2	28.4	29.7	28.8	29.2	28.7	27.5	27.8
4	24.6	22.6	23.1	28.6	28.0	28.2	29.5	28.6	29.2	28.6	27.9	28.4
5	24.5	23.4	23.9	28.5	28.1	28.3	28.8	28.3	28.6	28.3	27.6	28.1
6	25.2	23.9	24.5	28.4	28.3	28.3	29.5	28.5	28.7	27.8	24.5	26.1
7	25.1	24.1	24.9	28.5	28.2	28.3	29.4	28.6	28.9	25.4	24.1	24.6
8	25.1	24.7	24.9	28.6	28.3	28.4	30.3	28.9	29.4	24.7	23.9	24.4
9	25.4	24.6	25.0	28.5	27.4	28.2	30.2	29.4	29.6	24.6	24.1	24.4
10	26.3	24.9	25.6	28.4	27.0	27.7	30.2	29.4	29.6	24.7	24.5	24.6
11	27.2	25.8	26.3	28.9	27.8	28.1	30.4	29.5	29.8	24.8	24.6	24.7
12	27.7	26.2	26.8	---	---	---	29.8	29.2	29.6	25.0	24.7	24.9
13	29.1	27.2	28.0	---	---	---	29.6	29.2	29.4	25.5	24.9	25.1
14	30.1	28.1	28.9	---	---	---	29.2	28.1	28.6	25.6	25.1	25.4
15	29.9	28.5	29.1	---	---	---	28.6	28.3	28.5	26.2	25.4	25.7
16	29.4	28.5	28.9	---	---	---	28.6	28.0	28.3	26.6	24.9	26.0
17	29.5	28.5	28.9	---	---	---	29.0	28.0	28.3	26.4	23.9	25.0
18	29.4	28.7	29.0	29.4	28.7	29.0	29.4	28.0	28.6	24.2	23.0	23.5
19	29.7	28.6	29.0	30.3	28.9	29.5	29.1	28.4	28.7	24.5	23.1	24.0
20	29.0	28.4	28.7	30.0	29.4	29.6	28.6	27.8	28.1	24.0	23.5	23.7
21	29.3	28.1	28.6	29.6	28.5	29.1	28.0	26.8	27.2	23.8	23.5	23.7
22	29.5	28.5	28.8	29.5	28.2	28.6	27.5	26.5	27.1	23.9	23.7	23.8
23	29.1	28.4	28.6	28.9	28.4	28.6	27.4	27.1	27.2	24.5	23.8	24.0
24	29.8	28.4	28.9	28.7	27.9	28.1	27.3	26.7	26.9	24.5	24.1	24.2
25	30.2	28.7	29.4	27.9	26.8	27.3	27.4	26.9	27.1	24.5	24.1	24.3
26	30.1	29.2	29.6	27.6	27.1	27.4	27.2	27.1	27.1	25.0	24.3	24.5
27	29.7	28.6	29.1	27.6	27.3	27.5	27.4	27.1	27.2	24.7	24.4	24.5
28	29.5	28.6	29.0	27.7	27.4	27.5	27.5	27.2	27.3	24.4	23.5	24.0
29	29.0	28.3	28.6	28.1	27.6	27.8	27.6	27.2	27.3	24.2	22.1	23.2
30	28.8	28.0	28.5	28.4	27.8	28.0	27.4	26.4	26.9	22.7	21.9	22.4
31	---	---	---	28.5	28.0	28.3	27.4	26.8	27.0	---	---	---
MONTH	30.2	21.2	27.0	---	---	---	30.4	26.4	28.3	28.7	21.9	25.0

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (MG/L), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	9.6	8.0	9.0	11.1	9.8	10.4
2	---	---	---	---	---	---	10.1	9.1	9.5	11.6	10.4	10.9
3	---	---	---	---	---	---	10.1	9.2	9.7	10.9	9.9	10.5
4	---	---	---	---	---	---	10.3	9.3	9.7	10.4	9.1	9.9
5	---	---	---	---	---	---	10.6	9.4	10.1	9.7	9.1	9.4
6	---	---	---	---	---	---	10.3	9.3	9.9	9.9	9.1	9.5
7	---	---	---	---	---	---	9.8	8.6	9.3	10.0	9.1	9.6
8	---	---	---	---	---	---	10.6	9.2	9.6	12.0	8.8	10.2
9	---	---	---	---	---	---	---	---	---	11.0	9.4	10.4
10	---	---	---	---	---	---	10.7	9.0	9.9	11.0	9.7	10.5
11	---	---	---	---	---	---	9.5	8.4	9.0	10.9	9.7	10.3
12	---	---	---	---	---	---	9.6	8.5	9.1	11.5	9.6	10.4
13	---	---	---	---	---	---	9.5	8.6	9.0	11.1	9.7	10.5
14	---	---	---	---	---	---	9.2	7.9	8.5	11.7	10.0	10.7
15	---	---	---	---	---	---	9.1	7.7	8.3	12.2	10.3	11.1
16	---	---	---	---	---	---	8.8	8.2	8.5	12.7	11.0	11.7
17	---	---	---	---	---	---	10.1	8.3	8.8	13.1	11.1	11.9
18	---	---	---	---	---	---	9.6	8.5	9.0	---	---	---
19	---	---	---	11.7	10.1	10.9	9.2	7.8	8.5	---	---	---
20	---	---	---	12.0	9.7	11.0	9.0	7.9	8.4	13.4	11.9	12.6
21	---	---	---	13.4	8.9	11.2	9.2	8.4	8.7	13.8	12.2	12.7
22	---	---	---	11.5	9.0	10.2	8.9	8.2	8.5	13.9	12.5	12.9
23	---	---	---	11.0	8.6	9.8	9.5	7.9	8.7	14.3	12.4	12.9
24	---	---	---	10.8	7.1	9.2	10.0	8.2	9.1	13.4	12.1	12.7
25	---	---	---	12.2	7.9	10.4	10.3	7.9	9.4	14.2	11.8	12.9
26	---	---	---	10.7	8.2	9.4	10.1	9.1	9.7	14.0	12.7	13.3
27	---	---	---	8.7	7.4	7.9	10.3	9.4	9.8	14.5	13.1	13.7
28	---	---	---	9.2	7.2	8.0	10.5	9.5	10.1	15.4	12.9	13.9
29	---	---	---	9.5	7.8	8.4	10.2	9.5	9.9	14.9	13.3	14.1
30	---	---	---	8.9	5.9	7.6	10.6	9.7	10.1	15.6	13.6	14.2
31	---	---	---	---	---	---	10.6	9.6	10.2	15.0	13.1	13.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.3	13.1	13.5	10.3	9.3	9.7	---	---	---	---	---	---
2	14.2	12.8	13.4	9.4	7.8	8.6	---	---	---	---	---	---
3	14.8	12.8	13.5	8.8	7.8	8.3	---	---	---	---	---	---
4	13.8	12.4	13.1	8.6	8.2	8.4	---	---	---	---	---	---
5	14.4	12.3	12.9	9.2	7.7	8.6	---	---	---	---	---	---
6	14.2	12.2	12.8	9.6	8.7	9.2	---	---	---	---	---	---
7	13.2	12.1	12.6	10.0	9.1	9.6	---	---	---	---	---	---
8	13.2	11.8	12.7	10.3	8.9	9.5	---	---	---	---	---	---
9	12.9	12.2	12.5	10.0	9.4	9.6	---	---	---	---	---	---
10	12.6	11.7	12.2	10.2	9.1	9.6	---	---	---	---	---	---
11	12.5	11.7	12.1	9.7	9.0	9.4	---	---	---	7.6	6.3	6.9
12	---	---	---	9.2	8.3	8.9	---	---	---	7.6	6.2	6.9
13	12.3	11.4	11.9	9.8	9.0	9.3	---	---	---	7.5	6.2	6.7
14	12.4	10.8	11.6	9.8	8.3	9.3	---	---	---	7.5	5.8	6.4
15	11.7	10.8	11.2	---	---	---	10.0	7.5	8.9	6.7	5.2	6.0
16	12.1	10.8	11.4	---	---	---	11.2	8.2	9.5	6.8	5.4	6.2
17	12.1	11.2	11.5	---	---	---	11.6	8.9	10.5	7.9	5.4	6.9
18	11.4	10.7	11.1	---	---	---	10.6	7.8	8.9	7.8	6.6	7.4
19	12.0	10.9	11.4	---	---	---	9.4	7.1	8.4	8.2	7.0	7.5
20	12.0	10.5	11.1	---	---	---	10.7	6.4	8.8	8.1	6.6	7.4
21	11.8	10.7	11.3	---	---	---	9.8	7.8	8.7	7.8	6.7	7.1
22	12.1	11.0	11.5	---	---	---	9.4	8.0	8.8	7.2	6.2	6.5
23	12.8	10.9	11.7	---	---	---	9.5	7.7	8.9	8.5	5.7	7.1
24	13.3	11.4	12.2	---	---	---	10.0	7.5	8.6	8.1	6.8	7.5
25	13.2	11.4	12.2	---	---	---	8.2	6.9	7.7	8.5	6.7	7.6
26	13.2	11.2	12.1	---	---	---	8.3	6.0	7.2	8.7	7.1	7.9
27	11.8	10.2	11.2	---	---	---	9.3	6.7	7.7	8.2	7.0	7.7
28	10.5	9.5	10.0	---	---	---	9.3	6.0	7.5	7.4	5.9	6.7
29	10.5	9.3	9.9	---	---	---	---	---	---	6.7	5.5	6.1
30	---	---	---	---	---	---	---	---	---	7.5	6.0	6.7
31	---	---	---	---	---	---	---	---	---	8.5	6.8	7.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (MG/L), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	6.6	8.1	7.1	5.8	6.4	7.8	5.4	6.6	6.4	4.5	5.4
2	8.5	7.2	7.7	6.7	5.0	5.8	8.0	4.5	6.6	6.6	4.2	5.3
3	8.2	6.7	7.4	6.1	4.4	5.5	7.8	4.8	6.8	5.4	1.7	4.4
4	8.3	6.2	7.0	6.6	4.6	5.4	7.7	5.0	6.0	5.7	2.4	4.3
5	8.3	6.4	7.4	6.1	4.5	5.4	7.5	3.2	5.8	5.3	3.3	4.3
6	8.1	5.9	7.1	7.1	4.7	5.5	8.1	4.0	6.3	4.7	3.1	3.6
7	7.9	6.7	7.4	7.2	5.0	6.2	7.5	4.8	6.2	3.6	1.9	2.7
8	8.8	7.0	7.6	11.9	6.1	7.1	8.0	5.4	6.5	2.7	1.4	2.0
9	8.3	7.3	7.8	7.5	6.4	6.9	7.9	5.6	6.6	3.1	1.2	1.9
10	8.9	7.3	7.9	7.9	5.9	6.8	8.0	4.8	5.5	8.9	1.8	4.9
11	8.1	7.3	7.7	7.6	6.4	7.0	6.0	3.0	4.9	8.2	4.0	7.4
12	7.7	6.8	7.2	---	---	---	7.4	4.6	5.8	7.8	3.8	6.1
13	7.2	6.6	7.0	---	---	---	7.0	4.9	6.0	8.0	3.6	5.3
14	8.3	6.4	7.3	---	---	---	---	---	---	7.8	1.9	5.1
15	7.9	6.5	7.3	---	---	---	---	---	---	7.5	4.3	6.0
16	8.3	6.4	7.0	---	---	---	---	---	---	7.1	3.5	5.7
17	7.1	5.9	6.6	---	---	---	---	---	---	6.9	4.8	6.2
18	7.2	5.8	6.4	7.1	5.3	6.5	---	---	---	6.2	5.3	5.8
19	7.0	5.9	6.5	6.9	6.0	6.5	---	---	---	6.7	4.3	5.7
20	---	---	---	7.0	5.5	6.2	---	---	---	6.0	3.8	5.0
21	---	---	---	6.6	5.8	6.2	---	---	---	5.4	3.7	4.6
22	---	---	---	7.5	5.7	6.4	7.5	5.8	6.6	5.8	3.5	4.7
23	8.4	6.8	7.6	6.9	5.6	6.2	7.3	5.7	6.7	5.9	3.8	5.2
24	9.8	7.4	8.0	6.5	4.8	5.7	7.1	5.6	6.3	5.9	4.6	5.1
25	9.3	6.6	8.2	5.9	4.3	5.1	6.5	2.6	5.6	6.0	3.6	4.6
26	---	---	---	6.5	3.5	5.1	6.9	3.2	5.5	5.7	3.9	4.9
27	---	---	---	7.5	3.5	5.3	5.9	4.8	5.3	6.8	5.0	5.7
28	7.2	5.8	6.4	7.1	3.7	5.6	5.5	4.2	4.9	7.8	5.4	6.5
29	6.5	5.6	6.1	6.2	4.2	5.2	5.3	4.0	4.7	7.5	5.7	6.8
30	8.2	5.5	6.6	5.8	4.4	4.9	5.5	3.9	4.7	7.8	6.8	7.4
31	---	---	---	7.8	4.6	5.9	5.7	4.2	4.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.9	1.2	5.1

OXYGEN DISSOLVED (MG/L), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	10.3	8.6	9.7	---	---	---
2	---	---	---	---	---	---	10.6	9.2	10.2	---	---	---
3	---	---	---	---	---	---	10.6	9.2	10.0	---	---	---
4	---	---	---	---	---	---	10.5	9.1	9.8	---	---	---
5	---	---	---	---	---	---	9.8	8.4	9.2	---	---	---
6	---	---	---	---	---	---	11.0	7.4	8.8	---	---	---
7	---	---	---	---	---	---	10.7	7.4	9.8	---	---	---
8	---	---	---	---	---	---	10.4	6.2	8.5	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	9.8	9.1	9.4
15	---	---	---	---	---	---	---	---	---	10.2	9.5	9.7
16	---	---	---	---	---	---	---	---	---	11.4	9.4	10.2
17	---	---	---	---	---	---	---	---	---	10.8	9.3	10.4
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	2.6	.1	.9	---	---	---	---	---	---
20	---	---	---	.8	.2	.3	---	---	---	11.1	9.9	10.7
21	---	---	---	3.5	.3	1.0	---	---	---	11.7	11.0	11.3
22	---	---	---	1.5	.4	.8	---	---	---	11.8	11.0	11.4
23	---	---	---	3.8	.5	1.7	---	---	---	11.8	10.9	11.2
24	---	---	---	4.4	.6	2.6	---	---	---	11.6	10.4	11.0
25	---	---	---	3.2	.7	1.6	---	---	---	12.1	10.9	11.7
26	---	---	---	8.0	.8	3.1	---	---	---	12.5	11.7	12.0
27	---	---	---	8.6	.9	5.3	---	---	---	12.8	12.3	12.6
28	---	---	---	8.3	1.3	4.8	---	---	---	13.3	11.6	12.4
29	---	---	---	7.3	1.8	4.4	---	---	---	12.3	10.8	11.7
30	---	---	---	9.5	4.6	7.9	---	---	---	13.4	10.3	12.0
31	---	---	---	---	---	---	---	---	---	13.1	10.8	12.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.0	10.4	11.9	9.5	2.8	5.5	---	---	---	8.9	2.5	4.3
2	12.9	10.4	11.9	8.4	2.0	5.4	---	---	---	7.4	2.5	5.3
3	12.9	10.4	11.8	7.9	1.6	3.2	---	---	---	6.8	3.0	4.9
4	12.8	9.7	11.7	9.0	1.2	5.5	---	---	---	7.9	2.4	5.5
5	12.4	10.4	12.0	7.7	1.5	5.5	---	---	---	7.4	2.1	5.7
6	12.4	9.9	11.8	7.2	5.0	5.9	---	---	---	6.9	2.7	4.6
7	12.3	9.8	11.4	9.8	4.3	5.8	---	---	---	6.6	2.6	4.3
8	12.5	9.8	11.4	7.8	4.1	4.7	---	---	---	6.1	2.7	4.4
9	12.4	9.8	11.0	9.4	3.6	5.8	---	---	---	7.1	4.9	6.0
10	11.6	10.7	11.1	8.9	3.7	6.9	---	---	---	7.1	5.4	6.3
11	11.2	9.9	10.6	9.0	5.2	7.7	---	---	---	7.3	5.4	6.4
12	---	---	---	8.6	7.7	8.1	---	---	---	7.2	5.0	6.3
13	9.7	9.0	9.3	9.1	7.6	8.3	---	---	---	6.7	3.8	5.7
14	11.6	8.6	10.4	10.1	8.8	9.5	---	---	---	6.9	2.3	5.3
15	11.1	8.1	10.0	10.5	8.3	9.7	8.5	6.6	7.5	6.6	2.2	4.5
16	11.6	7.6	9.5	10.4	8.2	9.6	8.2	4.6	6.5	6.5	1.3	4.3
17	11.7	7.6	10.9	---	---	---	7.6	3.3	5.2	8.0	1.1	4.2
18	11.4	6.5	10.4	---	---	---	9.0	3.1	6.3	7.8	4.8	7.1
19	11.7	6.1	11.0	---	---	---	9.1	7.2	8.1	8.3	6.3	7.2
20	11.3	9.4	10.7	---	---	---	8.7	5.5	7.6	7.7	4.6	6.7
21	11.1	8.5	9.9	---	---	---	9.7	4.4	8.2	7.4	4.4	6.3
22	10.1	8.0	9.0	---	---	---	9.3	5.6	7.6	7.4	4.1	6.3
23	9.4	7.1	8.1	---	---	---	9.0	4.5	7.1	7.2	3.7	6.1
24	8.2	6.3	7.2	---	---	---	7.4	3.3	4.9	6.9	3.4	5.5
25	7.5	6.1	6.7	---	---	---	6.9	2.2	3.7	7.4	2.5	4.8
26	7.0	4.7	5.9	---	---	---	6.5	2.0	4.3	6.2	2.3	3.8
27	10.8	4.8	7.3	---	---	---	7.2	2.0	3.2	7.9	1.8	4.2
28	10.0	3.4	6.3	---	---	---	8.0	1.7	2.9	6.5	2.8	5.0
29	5.7	3.0	3.9	---	---	---	6.1	2.2	3.6	7.4	1.2	5.3
30	---	---	---	---	---	---	6.2	2.9	4.1	7.8	6.4	7.1
31	---	---	---	---	---	---	---	---	---	8.1	5.2	6.9
MONTH	---	---	---	---	---	---	---	---	---	8.9	1.1	5.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.4	5.1	5.9	7.0	2.4	5.0	6.8	.2	2.3	5.0	2.4	3.7
2	6.3	4.8	5.3	5.3	2.3	3.6	4.7	.5	2.3	4.3	2.3	3.1
3	6.3	3.5	4.4	6.2	1.9	2.9	5.5	.4	2.4	6.2	1.4	2.4
4	5.4	2.7	3.5	5.1	1.6	3.1	4.0	.8	2.4	5.1	1.8	3.9
5	4.6	2.3	3.0	4.0	1.1	2.3	4.2	1.4	2.3	4.2	1.9	2.4
6	5.2	2.2	3.4	3.0	1.1	1.8	5.0	.8	1.5	6.9	1.5	4.3
7	5.5	2.3	3.3	2.5	1.1	1.8	4.9	1.3	3.3	7.3	3.9	6.3
8	6.5	1.5	3.0	3.5	1.4	2.2	6.9	1.2	3.4	7.1	3.9	5.9
9	7.6	1.7	4.0	6.7	1.4	4.1	5.4	1.0	3.2	5.5	2.2	3.4
10	7.7	3.0	6.5	7.2	1.7	5.0	6.2	.6	2.8	4.7	2.1	3.0
11	7.4	5.3	6.8	6.9	3.1	5.3	5.0	1.0	2.5	3.8	2.2	3.0
12	6.8	5.8	6.4	---	---	---	3.1	1.1	2.1	4.3	2.0	2.6
13	7.1	5.6	6.6	---	---	---	2.7	.9	1.7	3.3	.2	1.4
14	8.1	5.9	6.7	---	---	---	3.6	1.0	2.2	1.3	.0	.4
15	7.9	6.6	7.3	---	---	---	1.7	1.1	1.3	.8	.0	.2
16	8.1	5.9	6.7	---	---	---	2.5	1.2	1.5	4.6	.0	1.3
17	6.8	5.6	6.2	---	---	---	6.2	1.4	2.4	6.4	.5	2.7
18	7.2	5.5	6.2	5.2	2.6	3.8	5.9	1.6	3.5	6.2	2.8	5.4
19	6.6	5.8	6.1	6.9	1.9	4.3	6.7	1.9	4.4	5.1	1.4	2.5
20	---	---	---	6.8	4.4	5.5	7.3	5.1	6.2	3.8	.7	1.7
21	---	---	---	6.9	3.8	5.8	7.2	4.5	6.1	3.2	.5	1.0
22	---	---	---	6.8	4.1	5.5	6.3	2.1	4.0	2.0	.2	.8
23	6.9	5.6	6.4	6.2	4.6	5.4	3.5	.4	1.6	3.0	.0	.7
24	7.3	3.6	5.6	5.9	4.4	5.1	6.1	.3	3.5	2.3	.0	.8
25	7.5	3.9	6.0	6.2	3.9	5.2	5.5	1.1	2.7	.7	.0	.0
26	7.5	5.8	6.7	6.4	2.4	3.9	3.0	.6	1.4	1.6	.0	.3
27	7.1	5.4	6.3	4.5	2.0	3.0	4.3	.5	1.3	2.1	.0	.3
28	7.0	5.1	6.0	3.5	1.6	2.2	4.1	.5	1.3	1.6	.0	.4
29	6.5	5.0	5.9	3.1	1.6	1.9	5.2	.7	2.2	7.1	.1	2.6
30	7.1	3.2	4.7	4.7	1.6	1.9	5.8	4.2	5.1	4.3	2.8	3.3
31	---	---	---	3.5	.1	1.6	5.0	2.8	4.2	---	---	---
MONTH	---	---	---	---	---	---	7.3	.2	2.8	7.3	.0	2.3

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	97	85	92	112	98	103
2	---	---	---	---	---	---	97	90	92	119	103	109
3	---	---	---	---	---	---	100	91	95	112	101	108
4	---	---	---	---	---	---	102	92	95	108	97	104
5	---	---	---	---	---	---	107	91	101	105	98	101
6	---	---	---	---	---	---	107	97	102	105	96	100
7	---	---	---	---	---	---	100	88	95	104	95	100
8	---	---	---	---	---	---	108	93	98	126	90	105
9	---	---	---	---	---	---	---	---	---	116	98	108
10	---	---	---	---	---	---	109	95	102	114	103	110
11	---	---	---	---	---	---	100	88	94	115	102	108
12	---	---	---	---	---	---	99	87	93	122	100	109
13	---	---	---	---	---	---	98	91	95	116	102	110
14	---	---	---	---	---	---	98	84	91	118	102	108
15	---	---	---	---	---	---	98	81	89	117	100	107
16	---	---	---	---	---	---	93	87	90	122	106	112
17	---	---	---	---	---	---	100	86	91	124	107	113
18	---	---	---	---	---	---	98	89	93	---	---	---
19	---	---	---	123	103	112	94	81	88	---	---	---
20	---	---	---	130	103	118	94	83	88	121	108	114
21	---	---	---	148	97	122	97	88	92	123	108	114
22	---	---	---	130	98	114	94	86	90	123	108	113
23	---	---	---	125	95	110	99	81	90	125	109	113
24	---	---	---	125	81	104	102	84	92	121	109	113
25	---	---	---	145	91	121	102	82	93	121	107	113
26	---	---	---	125	96	110	96	89	93	120	108	113
27	---	---	---	102	86	93	100	90	93	121	109	114
28	---	---	---	105	83	91	102	88	96	120	108	112
29	---	---	---	107	86	94	99	92	96	119	108	113
30	---	---	---	97	66	83	103	92	97	128	109	115
31	---	---	---	---	---	---	107	94	100	124	109	115
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	118	108	114	114	102	107	---	---	---	---	---	---
2	119	108	112	104	88	96	---	---	---	---	---	---
3	123	107	114	97	85	91	---	---	---	---	---	---
4	122	106	114	93	87	91	---	---	---	---	---	---
5	124	108	112	99	82	92	---	---	---	---	---	---
6	126	105	112	105	92	99	---	---	---	---	---	---
7	116	107	111	111	98	105	---	---	---	---	---	---
8	118	106	113	117	98	107	---	---	---	---	---	---
9	117	109	113	115	105	109	---	---	---	---	---	---
10	118	108	112	121	104	110	---	---	---	---	---	---
11	119	108	113	113	104	109	---	---	---	103	83	92
12	---	---	---	107	97	104	---	---	---	103	82	93
13	117	106	110	112	101	105	---	---	---	106	84	92
14	116	104	110	109	91	103	---	---	---	106	79	88
15	116	104	109	---	---	---	111	83	99	91	70	81
16	119	105	112	---	---	---	133	90	108	92	71	82
17	119	110	113	---	---	---	136	102	122	102	72	89
18	112	103	108	---	---	---	125	90	103	102	85	95
19	123	109	114	---	---	---	106	81	95	109	89	97
20	124	106	113	---	---	---	122	73	99	109	86	98
21	121	108	114	---	---	---	112	92	101	106	88	95
22	121	109	115	---	---	---	110	94	102	96	81	87
23	132	108	117	---	---	---	111	90	103	114	74	93
24	139	113	124	---	---	---	117	88	101	108	88	100
25	143	115	128	---	---	---	97	81	90	118	88	103
26	146	119	132	---	---	---	98	70	84	120	96	108
27	133	113	124	---	---	---	106	77	89	112	95	105
28	118	104	111	---	---	---	105	70	87	104	82	93
29	116	101	108	---	---	---	---	---	---	89	75	82
30	---	---	---	---	---	---	---	---	---	95	78	86
31	---	---	---	---	---	---	---	---	---	109	84	95
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	118	84	104	104	84	92	113	78	94	90	61	75
2	116	96	103	98	72	83	117	66	96	92	57	73
3	113	90	100	88	65	79	114	71	99	76	23	61
4	112	83	95	97	66	79	110	72	87	78	33	59
5	111	86	99	91	67	79	109	47	82	72	44	57
6	110	80	96	105	69	81	115	60	92	62	40	48
7	107	88	98	107	72	92	110	72	91	45	22	33
8	117	88	101	178	89	105	118	79	94	36	18	25
9	112	94	105	109	94	101	113	80	94	39	15	23
10	124	97	108	116	86	100	114	68	79	120	21	64
11	114	100	106	112	94	104	86	43	70	111	52	98
12	109	94	101	---	---	---	104	64	81	103	47	80
13	104	95	100	---	---	---	97	70	83	105	46	72
14	122	92	107	---	---	---	---	---	---	111	26	71
15	115	94	107	---	---	---	---	---	---	105	60	84
16	121	93	102	---	---	---	---	---	---	97	48	77
17	103	86	96	---	---	---	---	---	---	92	65	82
18	105	85	94	108	79	98	---	---	---	80	69	75
19	103	85	94	104	90	98	---	---	---	86	56	72
20	---	---	---	107	83	94	---	---	---	76	48	62
21	---	---	---	99	87	93	---	---	---	69	46	58
22	---	---	---	114	84	95	104	79	90	73	44	60
23	121	98	109	104	82	91	102	78	91	74	48	66
24	144	105	117	94	70	83	99	77	87	75	57	64
25	136	96	119	83	60	73	90	36	78	76	45	58
26	---	---	---	90	49	72	96	43	76	70	49	61
27	---	---	---	107	50	76	82	66	73	82	60	68
28	105	84	94	102	53	80	76	57	67	94	63	77
29	96	80	88	90	61	74	73	55	64	87	67	80
30	119	79	96	82	62	70	75	54	64	93	80	87
31	---	---	---	109	65	82	78	56	67	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	120	15	66

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	105	92	99	---	---	---
2	---	---	---	---	---	---	105	14	99	---	---	---
3	---	---	---	---	---	---	105	91	99	---	---	---
4	---	---	---	---	---	---	102	90	97	---	---	---
5	---	---	---	---	---	---	98	85	93	---	---	---
6	---	---	---	---	---	---	112	76	91	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	107	65	89	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	98	93	96
15	---	---	---	---	---	---	---	---	---	99	93	94
16	---	---	---	---	---	---	---	---	---	101	92	98
17	---	---	---	---	---	---	---	---	---	103	92	99
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	28	1	9	---	---	---	---	---	---
20	---	---	---	7	2	3	---	---	---	102	92	99
21	---	---	---	38	3	11	---	---	---	107	101	103
22	---	---	---	15	4	8	---	---	---	105	100	103
23	---	---	---	43	5	17	---	---	---	106	100	102
24	---	---	---	50	6	28	---	---	---	105	97	101
25	---	---	---	35	7	16	---	---	---	106	102	104
26	---	---	---	93	8	34	---	---	---	108	104	105
27	---	---	---	99	9	58	---	---	---	109	106	108
28	---	---	---	93	10	51	---	---	---	111	102	107
29	---	---	---	82	20	50	---	---	---	107	96	103
30	---	---	---	103	50	86	---	---	---	113	92	104
31	---	---	---	---	---	---	---	---	---	112	96	107
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, PERIOD NOVEMBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	112	93	104	107	33	62	---	---	---	107	31	52
2	113	93	105	94	22	61	---	---	---	88	31	64
3	113	94	105	87	18	36	---	---	---	83	37	59
4	113	89	105	97	14	60	---	---	---	98	30	68
5	111	95	108	85	18	61	---	---	---	91	27	71
6	112	91	106	81	55	66	---	---	---	88	34	57
7	112	91	104	110	49	65	---	---	---	85	33	55
8	116	91	105	87	47	53	---	---	---	78	35	56
9	114	92	104	108	40	65	---	---	---	90	63	77
10	111	103	107	103	42	79	---	---	---	91	68	81
11	108	97	103	104	59	89	---	---	---	95	70	82
12	---	---	---	100	89	95	---	---	---	94	64	81
13	95	88	91	102	85	94	---	---	---	88	50	75
14	112	85	102	113	97	105	---	---	---	92	30	70
15	110	82	99	117	92	108	96	74	85	87	30	60
16	118	76	95	118	93	108	94	52	74	84	17	56
17	119	77	110	---	---	---	90	38	60	102	14	55
18	115	67	104	---	---	---	106	37	74	102	62	91
19	123	63	113	---	---	---	103	82	91	111	81	95
20	117	99	111	---	---	---	97	64	86	101	61	89
21	113	88	103	---	---	---	113	51	95	100	58	84
22	106	84	95	---	---	---	109	66	89	98	54	84
23	99	77	86	---	---	---	104	53	82	96	49	81
24	88	68	78	---	---	---	86	39	57	92	45	73
25	81	65	73	---	---	---	81	27	44	100	33	65
26	77	52	64	---	---	---	76	25	51	83	31	52
27	122	52	81	---	---	---	83	25	39	109	24	58
28	113	38	71	---	---	---	91	22	35	90	39	70
29	65	35	45	---	---	---	71	28	43	93	16	72
30	---	---	---	---	---	---	73	36	49	100	82	91
31	---	---	---	---	---	---	---	---	---	102	66	87
MONTH	---	---	---	---	---	---	---	---	---	111	14	71

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	83	65	75	99	35	72	99	2	33	68	33	50
2	82	62	68	77	34	53	68	8	33	58	32	43
3	82	47	58	90	28	43	79	7	35	87	18	32
4	72	36	47	74	23	45	59	12	35	72	24	54
5	64	31	41	58	16	33	60	20	34	58	24	32
6	71	30	47	44	16	27	72	11	22	91	19	56
7	75	31	46	38	17	26	70	19	48	97	51	82
8	87	21	41	52	21	33	99	17	48	94	52	76
9	103	24	55	97	21	61	77	14	46	72	28	44
10	108	41	89	106	25	73	89	8	40	61	28	38
11	102	74	94	101	45	79	72	14	35	50	28	39
12	97	81	89	---	---	---	44	15	30	56	26	34
13	103	78	95	---	---	---	39	11	24	43	2	19
14	119	86	98	---	---	---	51	14	31	18	0	5
15	115	96	106	---	---	---	23	15	17	10	0	3
16	119	86	98	---	---	---	35	17	20	62	0	18
17	100	83	90	---	---	---	87	19	33	84	7	36
18	105	80	90	80	39	57	82	21	49	82	38	71
19	97	85	89	104	28	66	94	25	62	65	18	33
20	---	---	---	103	66	83	101	71	86	48	9	23
21	---	---	---	104	59	87	100	63	85	41	6	14
22	---	---	---	103	61	82	89	29	56	26	3	10
23	100	81	92	93	67	80	48	4	23	38	0	8
24	108	52	81	86	64	75	86	4	49	30	0	10
25	110	56	88	89	57	75	78	15	37	10	0	1
26	109	83	97	91	34	56	41	8	19	21	0	4
27	102	79	92	65	29	43	59	6	18	27	0	4
28	103	75	88	51	23	31	57	6	17	20	0	5
29	95	73	85	44	22	27	72	9	31	85	1	31
30	104	46	68	68	22	26	80	58	69	53	34	41
31	---	---	---	50	1	22	69	38	58	---	---	---
MONTH	---	---	---	---	---	---	101	2	39	97	0	31

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

02067800; 02067820 TALBOTT AND TOWNES RESERVOIRS

These two reservoirs on the Dan River are operated as a unit for storage of water for Pinnacles hydroelectric plant.

TALBOTT DAM

LOCATION.--Lat 36°40'36", long 80°23'51", Patrick County, Va, Hydrologic Unit 03010103, 4.5 mi northeast of Kibler.

DRAINAGE AREA.--20.2 mi^2.

TOWNES DAM

LOCATION.--Lat 36°41'11", long 80°25'49", Patrick County, Va, Hydrologic Unit 03010103, 4 mi north of Kibler.

DRAINAGE AREA.--32.9 mi^2.

PERIOD OF RECORD.--February 1939 to December 1945 and January 1948 to September 1960 (combined monthend contents only published in WSP 1723), October 1960 to current year.

REMARKS.--Total capacity of Talbott Reservoir is 350,000,000 ft^3 and Townes Reservoir is 60,000,000 ft^3. Filling was started in Talbott Reservoir Feb. 13, 1939, and in Townes Reservoir several months earlier. Records furnished by city of Danville, Virginia. (See station 02068500.)

02077280 HYCO LAKE

LOCATION.--Lat 36°30'28", long 79°02'48", Person County, Hydrologic Unit 03010104, at outlet control structure 0.4 mi northwest of dam on Hyco River, 1.1 mi southwest of McGehees Mill, and 8 mi northwest of Roxboro.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--October 1964 to current year. Prior to October 1970, published as "Roxboro Steam-Electric Generating Plant Lake."

GAGE.--Water-stage recorder and tape gage. Prior to Feb. 11, 1965, staff gage at upstream end of outlet control structure. Datum of gage is 399.79 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for cooling water at the Roxboro Steam-Electric Generating Plant of Carolina Power and Light Co., first began to fill Sept. 19, 1964, and first reached spillway elevation (9.97 ft gage height) Mar. 19, 1965. Total capacity at top of spillway is 3,288,000,000 ft^3. Lake cannot be drawn below -0.03 ft (bottom of gated flume).

02079964 LAKE GASTON

LOCATION.--Lat 36°30'04", long 77°48'43", Halifax County, Hydrologic Unit 03010106, at Gaston Dam on Roanoke River, 0.2 mi upstream from Black Gut Creek, and 2.7 mi northwest of Thelma.

DRAINAGE AREA.--8,339 mi^2.

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

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

REMARKS.--Lake, used mainly for hydroelectric power development, was first filled Oct.13-15, 1962, and has a total capacity of 22,434,000,000 ft^3. Usable capacity at top of spillway gates, 20,127,000,000 ft^3, is between elevations 165 and 203 ft. Capacity reserved for flood control, 2,788,000 ft^3, is between elevations 200 and 203 ft. Storage for power generation, 10,673,000,000 ft^3, is between elevations 185 and 200 ft.

COOPERATION.--Records furnished by Virginia Electric and Power Co. (See station 02080500.)

02080100 ROANOKE RAPIDS LAKE

LOCATION.--Lat 36°29'10", long 77°39'31", Halifax County, Hydrologic Unit 03010107, at Roanoke Rapids Dam on Roanoke River, 1.5 mi upstream from bridge on State Highway 48, and 2.2 mi north of Roanoke Rapids.

DRAINAGE AREA.--8,371 mi^2.

PERIOD OF RECORD.--June 1955 to September 1960 (monthend contents only published in WSP 1723), October 1960 to current year.

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

REMARKS.--Lake, used for hydroelectric power development, was put in operation June 25, 1955, and has a total capacity of 3,360,220,000 ft^3 at elevation 132.0 ft (normal high water). Usable capacity is 3,515,290,000 ft^3 at 132.75 ft (top of gates).

COOPERATION.--Records furnished by Virginia Electric and Power Co. (See station 02080500.)

02087182 FALLS LAKE

LOCATION.--Lat 35°56'00", long 78°35'00", Wake County, Hydrologic Unit 03020201, at Falls Dam on Neuse River at Falls, 10 mi north of Raleigh, and 235 mi upstream from mouth.

DRAINAGE AREA.--770 mi^2.

PERIOD OF RECORD.--February 1979 to current year.

GAGE.--Datum of gage is sea level.

REMARKS.--Lake is used for flood control, water supply, low-flow augmentation, and recreation. Temporary filling began May 1981 for water supply for city of Raleigh during drought conditions. Jan. 13, 1983, gates closed and normal pool elevation of 250.1 ft was reached Dec. 7, 1983. (See station 02087183.) Total capacity of reservoir is 4,998,074,400 ft^3 at elevation of 250.1 ft.

COOPERATION.--Records furnished by Corps of Engineers. (See station 02087183.)

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

OTHER RESERVOIRS

The following smaller reservoirs in the South Atlantic Slope basin are described below. Records of contents are not published herein.

02077229 LAKE ROXBORO

LOCATION.--Lat 79°08'26", long 36°20'55", Caswell County, Hydrologic Unit 03010104, on South Hyco Creek near Roseville.

DRAINAGE AREa.--23.2 mi^2.

REMARKS.--Lake is part of Roxboro's municipal water supply. Total capacity is 380,991,000 ft^3. Dam was completed and filled April 1978. (See station 02077250.)

02077302 ROXBORO STEAM-ELECTRIC GENERATING PLANT AFTERBAY RESERVOIR

LOCATION.--Lat 36°31'51", long 78°59'50", Person County, Hydrologic Unit 03010104, on Hyco River near McGehees Mill.

DRAINAGE AREA.--196 mi^2.

REMARKS.--Lake is used as a cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is approximately 522,720,000 ft^3 with a surface area of about 650 acres at a normal elevation of 385 ft above sea level. Dam completed May 30, 1974, and filling began Apr. 26, 1974. Water in reservoir first reached normal water-level elevation, 385 ft, on Aug. 22, 1974.

02077665 MAYO STEAM-ELECTRIC GENERATING PLANT LAKE.

LOCATION--Lat 36°32'15", long 78°52'30", Person County, Hydrologic Unit 03010104, on Mayo Creek near Bethel Hill.

DRAINAGE AREA.-- 52.2 mi^2.

REMARKS.--Lake is used as cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is 3,831,000,000 ft^3 with a surface area of 2,800 acres at a normal elevation of 434 ft above sea level. Dam was completed and filling began Aug. 1, 1980. Water in reservoir first reached normal water-level elevation of 434 ft on April 16, 1983. (See station 02077660.)

02086490 LAKE MICHIE

LOCATION.--Lat 36°09'02", long 79°49'49", Durham County, Hydrologic Unit 03020201, at Durham municipal dam on Flat River, 3 mi southeast of Bahama, and 5 mi upstream from confluence with Eno River.

DRAINAGE AREA.--170 mi^2, approximately.

PERIOD OF RECORD.--October 1962 to April 1975.

REMARKS.--Lake, used for municipal water supply, began filling in May 1926 and reached spillway elevation Dec. 26, 1926. Total capacity, 618,000,000 ft^3, is between 300.0 and 341.0 ft gage datum (crest of spillway). (See station 02087000.)

02087339 LAKE JOHNSON

LOCATION.--Lat 35°45'44", long 78°42'17", Wake County, Hydrologic Unit 03020201, on Walnut Creek near Raleigh.

DRAINAGE AREA.--7.05 mi^2.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 98,900,000 ft^3. Dam was completed in 1923 and spillway raised to its present elevation in 1951. (See station 02087500.)

02087344 LAKE RALEIGH

LOCATION.--Lat 35°45'56", long 78°40'38", Wake County, Hydrologic Unit 03020201, on Walnut Creek near Raleigh.

DRAINAGE AREA.--12.3 mi^2.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 13,400,000 ft^3. Dam was completed in 1914 and raised to its present elevation in 1919. (See station 02087500.)

02087588 LAKE WHEELER

LOCATION.--Lat 35°41'30", long 78°41'31", Wake County, Hydrologic Unit 03020201, on Swift Creek near Raleigh.

DRAINAGE AREA.-- 38 mi^2, approximately.

REMARKs.--Lake is part of Raleigh's municipal water supply. Total capacity is 267,400,000 ft^3. Dam was completed and filling began in 1956. (See station 02087500.)

02087701 LAKE BENSON

LOCATION.--Lat 35°39'44", long 78°36'42", Wake County, Hydrologic Unit 03020201, on Swift Creek near Garner.

DRAINAGE AREA.--67 mi^2, approximately.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 133,700,000 ft^3. Lake, formerly known as Rand's Mill, acquired by city of Raleigh in 1927 and spillway raised to its present elevation in 1954. (See station 02087500.)

02090370 BUCKHORN RESERVOIR

LOCATION.--Lat 35°41'22", long 78°07'33", Wilson County, Hydrologic Unit 03020203, on Contentnea Creek near Lucama.

DRAINAGE AREA.--155 mi^2.

REMARKS.--Lake is part of Wilson's municipal water supply. Total capacity is 133,680,000 ft^3. Dam was completed Nov. 12, 1976, and reservoir filled Dec. 1, 1976. (See station 02090380.)

LAKE AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02067800 & 02067820 Talbott & Townes Reservoir			02077280 Hyco Lake	
Sept. 30	--	326.00	--	10.93	3,437	--
Oct. 31	--	334.00	+3	10.51	3,372	-65
Nov. 30	--	348.00	+6	10.55	3,378	+6
Dec. 31	--	364.00	+6	10.51	3,372	-6
CAL YR 1999		--	+4		--	+162
Jan. 31	--	348.00	-6	11.00	3,448	+76
Feb. 29	--	342.00	-2	10.58	3,383	-65
Mar. 31	--	355.00	+5	10.58	3,383	0
Apr. 30	--	364.00	+3	10.96	3,442	+59
May 31	--	351.00	-5	10.53	3,375	-67
June 30	--	354.00	+1	10.81	3,419	+44
July 31	--	314.00	-15	10.56	3,380	-39
Aug. 31	--	274.00	-15	10.48	3,367	-13
Sept. 30	--	272.00	-1	10.45	3,363	-4
WTR YR 2000		--	-2		--	-74

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02079964 Lake Gaston			02080100 Roanoke Rapids Lake	
Sept. 30	199.12	18,835	--	129.70	2,916	--
Oct. 31	199.67	19,315	+480	129.90	2,953	+37
Nov. 30	199.44	19,114	-201	131.10	3,180	+227
Dec. 31	199.68	19,324	+210	129.70	2,916	-264
CAL YR 1999		--	-17		--	-128
Jan. 31	199.50	19,166	-158	129.70	2,916	0
Feb. 29	199.33	19,018	-148	131.00	3,162	+246
Mar. 31	199.11	18,827	-191	129.50	2,879	-283
Apr. 30	199.44	19,114	+287	129.90	2,953	+74
May 31	200.07	19,663	+549	130.50	3,062	+109
June 30	199.74	19,376	-287	131.60	3,274	+212
July 31	199.87	19,488	+112	130.40	3,044	-230
Aug. 31	199.65	19,298	-190	129.60	2,898	-146
Sept. 30	199.55	19,210	-88	129.90	2,953	+55
WTR YR 2000		--	+375		--	+37

LAKE 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)
		02087182 Falls Lake	
Sept. 30	264.25	14,613	--
Oct. 31	255.00	7,542	-7,071
Nov. 30	251.95	5,729	-1,813
Dec. 31	251.98	5,745	+16
CAL YR 1999		--	+2,160
Jan. 31	253.97	6,907	+1,161
Feb. 29	251.86	5,681	-1,226
Mar. 31	251.69	5,589	-92
Apr. 30	253.27	6,489	+901
May 31	251.98	5,745	-744
June 30	252.20	5,871	+125
July 31	253.09	6,382	+511
Aug. 31	251.19	5,318	-1,064
Sept. 30	251.52	5,497	+178
WTR YR 2000		--	-9,116

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. These measurements and others collected for some special reason are called measurements at miscellaneous sites.

PEAK DISCHARGE STATIONS

The following table contains annual maximum discharges for peak discharge stations. A peak discharge gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

ANNUAL MAXIMUM DISCHARGE AT PEAK DISCHARGE STATIONS DURING WATER YEAR 2000

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
02084540	Durham Creek at Edward	Lat 35°19'25", long 76°52'26" Beaufort County, Hydrologic Unit 03020104, on left bank 5 ft downstream of bridge on Secondary Road 1949 at Edward, and 6.8 mi upstream from mouth.	26	1950-54, 1956-65, 1966-92†, 1993-00	8-31-00	11.67	1,360
02086500	Flat River at Dam near Bahama	Lat 36°08'55", long 78°49'43", Durham County, Hydrologic Unit 03020201, on right bank 900 ft downstream of Durham municipal dam, 3 mi southeast of Bahama and 5 mi upstream from confluence with Eno River.	168	1927-59† 1961-66,† 1982-90† 1994† 1995, 1997, 1998	3-17-00	11.70	5,489

†Operated as a continuous-record gaging station.

MEASUREMENTS AT MISCELLANEOUS SITES

These measurements and others collected for special reasons are called measurements at miscellaneous sites. Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2000, IN ATLANTIC SLOPE BASINS						
ROANOKE RIVER BASIN						
02077348 Marlowe Creek	Dan River	Lat 36°29'03", long 78°58'47", Person County, Hydrologic Unit 03010104, at bridge on Secondary Road 1322, downstream of Fishing Branch, and 1.2 mi west of Woodsdale.	17.8	1970, 1974, 1976, 1978, 1980-99	1-21-00 4-25-00 8-18-00 8-30-00	17.1 73.8 5.84 8.28
02079264 Nutbush Creek	Roanoke River	Lat 36°22'10", long 78°24'31", Vance County, Hydrologic Unit 03010102, at bridge on Secondary Road 1317, 0.1 mi upstream from Buggs Island Reservoir, and 3 mi north of Henderson.	6.0	1970, 1974, 1976, 1978-99	10-21-99 1-13-00 4-25-00 7-7-00	12.5 8.24 9.01 2.40
02079717 Smith Creek	Roanoke River	Lat 36°32'27", long 78°11'43", Warren County, Hydrologic Unit 03010106, at bridge on U.S. Highway 1, 0.3 mi downstream of Blue Mud Creek, and 0.1 mi west of Paschall.	52.9	1954, 1961-63, 1966, 1976, 1979-99	10-21-99 1-13-00 4-25-00 7-7-00	109 44.1 45.8 18.9
PAMLICO RIVER BASIN						
02081547 Fishing Creek	Tar River	Lat 36°20'09", long 78°35'38", Granville County, Hydrologic Unit 03020101, at bridge on Secondary Road 1643, 2.9 mi upstream from mouth, and 6.3 mi south of Oxford.	44.1	1970-73, 1997-99	10-19-99 1-13-00 4-24-00 7-6-00	60.0 39.2 22.4 5.13
0208273350 Sandy Creek	Swift Creek	Lat 36°10'40", long 78°11'29", Franklin County, Hydrologic Unit 03020101, at bridge on Secondary Road 1436, 2 mi southeast of Gupton.	76.2	1997-99	1-12-00 2-28-00 6-1-00 8-23-00	118 83.2 44.7 27.7
NEUSE RIVER BASIN						
02087251 Crabtree Creek	Neuse River	Lat 35°50'15", long 78°46'52", Wake County, Hydrologic Unit 03020201, at bridge on Secondary Road 1795, 0.3 mi downstream from Hayleys Branch, and 3.5 mi north of Cary.	52.2	1983-91, 1997-99	10-25-99 2-25-00 6-2-00 8-22-00	38.9 45.0 2.41 1.49
0208732544 Pigeon House Creek	Crabtree Creek	Lat 35°47'37", long 78°38'35", Wake County, Hydrologic Unit 03020201, at Dortch Street, and 1.2 mi north of Raleigh.	.59	1984-92, 1997-99	2-25-00 6-1-00 8-22-00	0.88 0.67 0.36

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 1B.

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)
355011077042801 BACK SWAMP BRANCH TRIBUTARY AT WILLIAMSTON, NC (LAT 35 50 10N LONG 077 04 27W)											
MAR 2000											
10...	1000	.16	5.3	6.6	288	22.0	14.5	15.3	2.80	3.8	34.9
355151076431401 UNNAMED TRIB TO CONABY CREEK NEAR PLYMOUTH, NC (LAT 35 51 51N LONG 076 43 13W)											
MAR 2000											
08...	1030	.54	11.5	7.3	358	28.0	13.0	39.8	5.51	2.9	15.5
355229077085401 BEAVERDAM CREEK TRIBUTARY NEAR WILLIAMSTON, NC (LAT 35 52 28N LONG 077 08 54W)											
MAR 2000											
10...	1500	.21	8.9	6.6	164	27.0	20.0	17.8	3.27	2.5	7.2
355718077170201 UNNAMED TRIB TO CONOHO CREEK NEAR OAK CITY, NC (LAT 35 57 17N LONG 077 17 01W)											
MAR 2000											
10...	1730	.28	9.7	6.7	155	23.0	20.0	10.8	4.31	4.2	7.4
360519076595501 UNNAMED TRIBUTARY TO CASHIE RIVER NEAR WINDSOR, N(LAT 36 05 19N LONG 076 59 56W)											
MAR 2000											
28...	1300	.00	9.2	5.6	45	19.0	17.0	3.01	1.56	1.6	4.9
361918077255301 ROANOKE RIVER TRIBUTARY AT ODOM STATE PRISON, NC (LAT 36 19 18N LONG 077 25 52W)											
MAR 2000											
27...	0945	.11	8.7	7.2	63	21.0	14.0	4.33	2.25	6.0	3.7
362004077300901 OCCONEECHEE CREEK TRIBUTARY NEAR HALIFAX, NC (LAT 36 20 03N LONG 077 30 08W)											
APR 2000											
11...	1000	.00	9.7	7.1	127	--	14.5	12.6	5.51	7.1	2.6
361631076563701 WHITEOAK SWAMP TRIBUTARY NEAR AHOSKIE, NC (LAT 36 16 30N LONG 076 56 36W)											
MAR 2000											
29...	0930	.52	8.6	6.7	77	13.0	10.5	6.49	1.91	4.7	7.3
361804077111801 CUTANHISKIE CREEK TRIBUTARY NEAR MURFREESBORO, N(LAT 36 18 03N LONG 077 11 18W)											
MAR 2000											
27...	1345	.04	9.2	7.0	76	--	14.5	4.31	2.21	4.2	7.8
362112076595001 UNNAMED TRIB TO POTECASI CREEK NEAR AHOSKIE, NC (LAT 36 21 11N LONG 076 59 50W)											
MAR 2000											
11...	1130	.00	.6	5.6	239	28.0	13.5	3.01	1.22	2.3	2.8

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	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 DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
355011077042801 BACK SWAMP BRANCH TRIBUTARY AT WILLIAMSTON, NC (LAT 35 50 10N LONG 077 04 27W)											
MAR 2000 10...	70	86	25.5	.3	8.8	18.5	.45	.66	.129	.351	.017
355151076431401 UNNAMED TRIB TO CONABY CREEK NEAR PLYMOUTH, NC (LAT 35 51 51N LONG 076 43 13W)											
MAR 2000 08...	92	112	26.5	<.1	16.6	31.3	.18	.40	<.020	.179	<.010
355229077085401 BEAVERDAM CREEK TRIBUTARY NEAR WILLIAMSTON, NC (LAT 35 52 28N LONG 077 08 54W)											
MAR 2000 10...	36	44	14.4	.1	10.4	15.2	.32	.48	.068	.149	<.010
355718077170201 UNNAMED TRIB TO CONOHO CREEK NEAR OAK CITY, NC (LAT 35 57 17N LONG 077 17 01W)											
MAR 2000 10...	6	7	19.0	.2	15.7	21.7	.14	.24	.026	2.39	<.010
360519076595501 UNNAMED TRIBUTARY TO CASHIE RIVER NEAR WINDSOR, N(LAT 36 05 19N LONG 076 59 56W)											
MAR 2000 28...	4	5	10.7	<.1	9.9	5.7	.41	.56	.028	.151	<.010
361918077255301 ROANOKE RIVER TRIBUTARY AT ODOM STATE PRISON, NC (LAT 36 19 18N LONG 077 25 52W)											
MAR 2000 27...	17	21	5.1	.2	2.2	7.4	.74	2.0	.170	.800	.024
362004077300901 OCCONEECHEE CREEK TRIBUTARY NEAR HALIFAX, NC (LAT 36 20 03N LONG 077 30 08W)											
APR 2000 11...	60	73	7.3	.2	1.2	1.2	.70	.88	<.020	<.050	<.010
361631076563701 WHITEOAK SWAMP TRIBUTARY NEAR AHOSKIE, NC (LAT 36 16 30N LONG 076 56 36W)											
MAR 2000 29...	20	25	9.7	<.1	3.1	3.0	.89	1.2	.030	<.050	<.010
361804077111801 CUTANHISKIE CREEK TRIBUTARY NEAR MURFREESBORO, N(LAT 36 18 03N LONG 077 11 18W)											
MAR 2000 27...	17	21	11.0	<.1	4.4	6.9	1.2	1.5	.051	<.050	<.010
362112076595001 UNNAMED TRIB TO POTECASI CREEK NEAR AHOSKIE, NC (LAT 36 21 11N LONG 076 59 50W)											
MAR 2000 11...	7	9	5.3	<.1	5.4	2.2	.36	.71	<.020	<.050	<.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)
355011077042801 BACK SWAMP BRANCH TRIBUTARY AT WILLIAMSTON, NC (LAT 35 50 10N LONG 077 04 27W)											
MAR 2000											
10...	.067	.059	.160	181	1480	78	<.003	<.002	.005	<.002	<.001
355151076431401 UNNAMED TRIB TO CONABY CREEK NEAR PLYMOUTH, NC (LAT 35 51 51N LONG 076 43 13W)											
MAR 2000											
08...	.024	.013	.087	224	90	74	<.003	<.002	<.002	<.002	.006
355229077085401 BEAVERDAM CREEK TRIBUTARY NEAR WILLIAMSTON, NC (LAT 35 52 28N LONG 077 08 54W)											
MAR 2000											
10...	.015	<.010	.071	119	660	86	<.003	<.002	.007	<.002	<.001
355718077170201 UNNAMED TRIB TO CONOHO CREEK NEAR OAK CITY, NC (LAT 35 57 17N LONG 077 17 01W)											
MAR 2000											
10...	E.003	<.010	.032	107	210	114	<.003	<.002	.039	<.002	<.001
360519076595501 UNNAMED TRIBUTARY TO CASHIE RIVER NEAR WINDSOR, N(LAT 36 05 19N LONG 076 59 56W)											
MAR 2000											
28...	.017	.014	.046	60	880	30	<.003	<.002	<.002	<.002	E.002
361918077255301 ROANOKE RIVER TRIBUTARY AT ODOM STATE PRISON, NC (LAT 36 19 18N LONG 077 25 52W)											
MAR 2000											
27...	.072	.053	.894	59	10	33	<.003	<.002	<.002	<.002	.009
362004077300901 OCCONEECHEE CREEK TRIBUTARY NEAR HALIFAX, NC (LAT 36 20 03N LONG 077 30 08W)											
APR 2000											
11...	.056	.041	.126	98	900	1690	<.003	<.002	.012	<.002	.069
361631076563701 WHITEOAK SWAMP TRIBUTARY NEAR AHOSKIE, NC (LAT 36 16 30N LONG 076 56 36W)											
MAR 2000											
29...	.079	.037	.153	101	1360	111	<.003	<.002	<.002	<.002	.007
361804077111801 CUTANHISKIE CREEK TRIBUTARY NEAR MURFREESBORO, N(LAT 36 18 03N LONG 077 11 18W)											
MAR 2000											
27...	.112	.065	.321	77	510	261	<.003	<.002	<.002	<.002	<.001
362112076595001 UNNAMED TRIB TO POTECASI CREEK NEAR AHOSKIE, NC (LAT 36 21 11N LONG 076 59 50W)											
MAR 2000											
11...	.018	<.010	.152	56	530	235	<.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)
355011077042801 BACK SWAMP BRANCH TRIBUTARY AT WILLIAMSTON, NC (LAT 35 50 10N LONG 077 04 27W)											
MAR 2000											
10...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
355151076431401 UNNAMED TRIB TO CONABY CREEK NEAR PLYMOUTH, NC (LAT 35 51 51N LONG 076 43 13W)											
MAR 2000											
08...	<.002	<.002	<.003	<.003	.004	<.004	<.002	E.007	<.002	<.001	<.017
355229077085401 BEAVERDAM CREEK TRIBUTARY NEAR WILLIAMSTON, NC (LAT 35 52 28N LONG 077 08 54W)											
MAR 2000											
10...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
355718077170201 UNNAMED TRIB TO CONOHO CREEK NEAR OAK CITY, NC (LAT 35 57 17N LONG 077 17 01W)											
MAR 2000											
10...	<.002	<.002	<.003	<.003	<.004	.010	<.002	E.003	<.002	<.001	<.017
360519076595501 UNNAMED TRIBUTARY TO CASHIE RIVER NEAR WINDSOR, N(LAT 36 05 19N LONG 076 59 56W)											
MAR 2000											
28...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
361918077255301 ROANOKE RIVER TRIBUTARY AT ODOM STATE PRISON, NC (LAT 36 19 18N LONG 077 25 52W)											
MAR 2000											
27...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
362004077300901 OCCONEECHEE CREEK TRIBUTARY NEAR HALIFAX, NC (LAT 36 20 03N LONG 077 30 08W)											
APR 2000											
11...	<.002	<.002	<.003	<.003	<.004	.021	<.002	E.008	<.002	<.001	<.017
361631076563701 WHITEOAK SWAMP TRIBUTARY NEAR AHOSKIE, NC (LAT 36 16 30N LONG 076 56 36W)											
MAR 2000											
29...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
361804077111801 CUTANHISKIE CREEK TRIBUTARY NEAR MURFREESBORO, N(LAT 36 18 03N LONG 077 11 18W)											
MAR 2000											
27...	<.002	<.002	<.003	<.003	<.010	<.004	<.002	<.002	<.002	<.001	<.017
362112076595001 UNNAMED TRIB TO POTECASI CREEK NEAR AHOSKIE, NC (LAT 36 21 11N LONG 076 59 50W)											
MAR 2000											
11...	<.002	<.002	E.004	<.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)
355011077042801 BACK SWAMP BRANCH TRIBUTARY AT WILLIAMSTON, NC (LAT 35 50 10N LONG 077 04 27W)											
MAR 2000 10...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	<.004
355151076431401 UNNAMED TRIB TO CONABY CREEK NEAR PLYMOUTH, NC (LAT 35 51 51N LONG 076 43 13W)											
MAR 2000 08...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.044	<.004
355229077085401 BEAVERDAM CREEK TRIBUTARY NEAR WILLIAMSTON, NC (LAT 35 52 28N LONG 077 08 54W)											
MAR 2000 10...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	<.004
355718077170201 UNNAMED TRIB TO CONOHO CREEK NEAR OAK CITY, NC (LAT 35 57 17N LONG 077 17 01W)											
MAR 2000 10...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.053	<.004
360519076595501 UNNAMED TRIBUTARY TO CASHIE RIVER NEAR WINDSOR, N(LAT 36 05 19N LONG 076 59 56W)											
MAR 2000 28...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	E.003	<.004
361918077255301 ROANOKE RIVER TRIBUTARY AT ODOM STATE PRISON, NC (LAT 36 19 18N LONG 077 25 52W)											
MAR 2000 27...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.024	<.004
362004077300901 OCCONEECHEE CREEK TRIBUTARY NEAR HALIFAX, NC (LAT 36 20 03N LONG 077 30 08W)											
APR 2000 11...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.024	<.004
361631076563701 WHITEOAK SWAMP TRIBUTARY NEAR AHOSKIE, NC (LAT 36 16 30N LONG 076 56 36W)											
MAR 2000 29...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.102	<.004
361804077111801 CUTANHISKIE CREEK TRIBUTARY NEAR MURFREESBORO, N(LAT 36 18 03N LONG 077 11 18W)											
MAR 2000 27...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.007	<.004
362112076595001 UNNAMED TRIB TO POTECASI CREEK NEAR AHOSKIE, NC (LAT 36 21 11N LONG 076 59 50W)											
MAR 2000 11...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	<.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)
355011077042801 BACK SWAMP BRANCH TRIBUTARY AT WILLIAMSTON, NC (LAT 35 50 10N LONG 077 04 27W)										
MAR 2000 10...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	.034	<.003
355151076431401 UNNAMED TRIB TO CONABY CREEK NEAR PLYMOUTH, NC (LAT 35 51 51N LONG 076 43 13W)										
MAR 2000 08...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.003	<.003
355229077085401 BEAVERDAM CREEK TRIBUTARY NEAR WILLIAMSTON, NC (LAT 35 52 28N LONG 077 08 54W)										
MAR 2000 10...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.008	<.003
355718077170201 UNNAMED TRIB TO CONOHO CREEK NEAR OAK CITY, NC (LAT 35 57 17N LONG 077 17 01W)										
MAR 2000 10...	<.004	<.003	<.006	<.004	<.004	<.010	<.005	<.002	E.012	<.003
360519076595501 UNNAMED TRIBUTARY TO CASHIE RIVER NEAR WINDSOR, N(LAT 36 05 19N LONG 076 59 56W)										
MAR 2000 28...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.006	<.003
361918077255301 ROANOKE RIVER TRIBUTARY AT ODOM STATE PRISON, NC (LAT 36 19 18N LONG 077 25 52W)										
MAR 2000 27...	<.004	<.003	E.002	<.004	<.004	<.004	<.005	<.002	<.018	<.003
362004077300901 OCCONEECHEE CREEK TRIBUTARY NEAR HALIFAX, NC (LAT 36 20 03N LONG 077 30 08W)										
APR 2000 11...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.002	<.003
361631076563701 WHITEOAK SWAMP TRIBUTARY NEAR AHOSKIE, NC (LAT 36 16 30N LONG 076 56 36W)										
MAR 2000 29...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.014	<.003
361804077111801 CUTANHISKIE CREEK TRIBUTARY NEAR MURFREESBORO, N(LAT 36 18 03N LONG 077 11 18W)										
MAR 2000 27...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.007	<.003
362112076595001 UNNAMED TRIB TO POTECASI CREEK NEAR AHOSKIE, NC (LAT 36 21 11N LONG 076 59 50W)										
MAR 2000 11...	<.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)
355011077042801 BACK SWAMP BRANCH TRIBUTARY AT WILLIAMSTON, NC (LAT 35 50 10N LONG 077 04 27W)										
MAR 2000 10...	<.007	<.004	<.013	<.005	.014	<.007	<.013	<.002	<.001	<.002
355151076431401 UNNAMED TRIB TO CONABY CREEK NEAR PLYMOUTH, NC (LAT 35 51 51N LONG 076 43 13W)										
MAR 2000 08...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
355229077085401 BEAVERDAM CREEK TRIBUTARY NEAR WILLIAMSTON, NC (LAT 35 52 28N LONG 077 08 54W)										
MAR 2000 10...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
355718077170201 UNNAMED TRIB TO CONOHO CREEK NEAR OAK CITY, NC (LAT 35 57 17N LONG 077 17 01W)										
MAR 2000 10...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
360519076595501 UNNAMED TRIBUTARY TO CASHIE RIVER NEAR WINDSOR, N(LAT 36 05 19N LONG 076 59 56W)										
MAR 2000 28...	<.007	<.004	<.013	E.002	<.010	<.007	<.013	<.002	<.001	<.002
361918077255301 ROANOKE RIVER TRIBUTARY AT ODOM STATE PRISON, NC (LAT 36 19 18N LONG 077 25 52W)										
MAR 2000 27...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
362004077300901 OCCONEECHEE CREEK TRIBUTARY NEAR HALIFAX, NC (LAT 36 20 03N LONG 077 30 08W)										
APR 2000 11...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
361631076563701 WHITEOAK SWAMP TRIBUTARY NEAR AHOSKIE, NC (LAT 36 16 30N LONG 076 56 36W)										
MAR 2000 29...	<.007	<.004	<.013	E.003	<.010	<.007	<.013	<.002	<.001	<.002
361804077111801 CUTANHISKIE CREEK TRIBUTARY NEAR MURFREESBORO, N(LAT 36 18 03N LONG 077 11 18W)										
MAR 2000 27...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
362112076595001 UNNAMED TRIB TO POTECASI CREEK NEAR AHOSKIE, NC (LAT 36 21 11N LONG 076 59 50W)										
MAR 2000 11...	<.007	<.004	<.013	<.007	<.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)
362854077020001 LIVERMAN CREEK TRIBUTARY NEAR MURFREESBORO, NC (LAT 36 28 54N LONG 077 02 01W)											
MAR 2000											
29...	1245	1.9	9.9	6.0	77	17.5	13.5	6.18	2.71	2.4	4.4
360620077392401 UNNAMED TRIB TO FISHING CREEK NEAR WHITAKERS, NC (LAT 36 06 20N LONG 077 39 24W)											
APR 2000											
11...	0730	.06	9.4	5.9	260	21.0	13.5	20.4	7.94	6.1	5.0
355745077301401 DEEP CREEK TRIBUTARY NEAR TARBORO, NC (LAT 35 57 45N LONG 077 30 13W)											
MAR 2000											
07...	1230	.17	12.5	5.5	168	23.0	13.0	15.6	3.72	2.5	4.5
07...	1500	--	5.3	5.8	100	24.0	14.8	--	--	--	--
360026077324101 UNNAMED TRIBUTARY TO MAPLE SWAMP NEAR TARBORO, N(LAT 36 00 26N LONG 077 32 41W)											
MAR 2000											
01...	1400	.07	11.3	5.7	198	22.5	14.5	16.3	4.53	6.2	4.7
360653077381801 FISHING CREEK TRIBUTARY NEAR WHITAKERS, NC (LAT 36 06 52N LONG 077 38 18W)											
MAR 2000											
07...	1500	.00	5.3	5.8	100	24.0	15.0	7.55	2.50	2.7	4.7
361002077451001 UNNAMED TRIB TO SWIFT CREEK NEAR ROCKY MOUNT, NC (LAT 36 10 02N LONG 077 45 10W)											
APR 2000											
10...	1530	.05	6.3	6.6	52	21.0	18.5	5.23	2.14	2.0	4.2
361310077454601 UNNAMED TRIB TO JACKET SWAMP NEAR ENFIELD, NC (LAT 36 13 10N LONG 077 45 46W)											
APR 2000											
10...	0830	.00	9.2	6.3	56	13.5	9.0	5.90	1.90	2.2	4.1
361335077483101 ROCKY SWAMP NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 31W)											
APR 2000											
10...	1100	22	8.9	6.9	51	23.0	12.0	5.85	2.58	1.5	5.1
353517077171001 UNNAMED TRIBUTARY TO TAR RIVER NEAR SIMPSON, NC (LAT 35 35 17N LONG 077 17 10W)											
FEB 2000											
24...	1200	.93	10.8	6.4	137	21.5	12.0	8.99	2.18	3.2	9.9
353954077342001 UNNAMED TRIB TO TYSON CREEK NEAR FOUNTAIN, NC (LAT 35 39 54N LONG 077 34 20W)											
FEB 2000											
29...	1545	.31	7.7	4.9	108	21.0	13.0	6.86	2.83	2.7	4.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	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 DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
362854077020001 LIVERMAN CREEK TRIBUTARY NEAR MURFREESBORO, NC (LAT 36 28 54N LONG 077 02 01W)											
MAR 2000											
29...	9	11	12.2	1.6	7.2	11.2	.48	.64	.047	.348	<.010
360620077392401 UNNAMED TRIB TO FISHING CREEK NEAR WHITAKERS, NC (LAT 36 06 20N LONG 077 39 24W)											
APR 2000											
11...	6	7	34.2	.2	7.1	16.5	.31	.46	.080	9.64	.016
355745077301401 DEEP CREEK TRIBUTARY NEAR TARBORO, NC (LAT 35 57 45N LONG 077 30 13W)											
MAR 2000											
07...	3	4	18.7	<.1	2.5	30.9	.27	.47	<.020	1.11	<.010
07...	--	--	--	--	--	--	--	--	--	--	--
360026077324101 UNNAMED TRIBUTARY TO MAPLE SWAMP NEAR TARBORO, N(LAT 36 00 26N LONG 077 32 41W)											
MAR 2000											
01...	6	7	19.7	<.1	2.2	39.6	.32	.42	<.020	.289	<.010
360653077381801 FISHING CREEK TRIBUTARY NEAR WHITAKERS, NC (LAT 36 06 52N LONG 077 38 18W)											
MAR 2000											
07...	16	20	13.1	<.1	5.3	4.7	.51	.70	.046	.484	.012
361002077451001 UNNAMED TRIB TO SWIFT CREEK NEAR ROCKY MOUNT, NC (LAT 36 10 02N LONG 077 45 10W)											
APR 2000											
10...	13	16	9.8	.1	7.1	3.0	.59	.66	.055	.630	<.010
361310077454601 UNNAMED TRIB TO JACKET SWAMP NEAR ENFIELD, NC (LAT 36 13 10N LONG 077 45 46W)											
APR 2000											
10...	7	8	13.3	<.1	4.4	5.0	.47	.69	.080	.050	<.010
361335077483101 ROCKY SWAMP NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 31W)											
APR 2000											
10...	29	36	3.8	.2	13.2	1.3	.26	.41	<.020	<.050	<.010
353517077171001 UNNAMED TRIBUTARY TO TAR RIVER NEAR SIMPSON, NC (LAT 35 35 17N LONG 077 17 10W)											
FEB 2000											
24...	12	15	12.0	.1	7.3	19.1	.30	.45	.052	1.49	<.010
353954077342001 UNNAMED TRIB TO TYSON CREEK NEAR FOUNTAIN, NC (LAT 35 39 54N LONG 077 34 20W)											
FEB 2000											
29...	2	3	12.1	<.1	8.7	10.9	.54	.62	.050	1.87	<.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)
362854077020001 LIVERMAN CREEK TRIBUTARY NEAR MURFREESBORO, NC (LAT 36 28 54N LONG 077 02 01W)											
MAR 2000											
29...	.010	<.010	.035	79	720	36	<.003	<.002	<.002	<.002	<.001
360620077392401 UNNAMED TRIB TO FISHING CREEK NEAR WHITAKERS, NC (LAT 36 06 20N LONG 077 39 24W)											
APR 2000											
11...	<.006	<.010	.013	152	340	70	<.003	<.002	E.004	<.002	.015
355745077301401 DEEP CREEK TRIBUTARY NEAR TARBORO, NC (LAT 35 57 45N LONG 077 30 13W)											
MAR 2000											
07...	<.006	<.010	.019	117	240	96	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
360026077324101 UNNAMED TRIBUTARY TO MAPLE SWAMP NEAR TARBORO, N(LAT 36 00 26N LONG 077 32 41W)											
MAR 2000											
01...	E.003	<.010	.038	122	110	96	<.003	<.002	<.002	<.002	<.001
360653077381801 FISHING CREEK TRIBUTARY NEAR WHITAKERS, NC (LAT 36 06 52N LONG 077 38 18W)											
MAR 2000											
07...	.008	<.010	.068	75	610	67	<.003	<.002	<.002	<.002	<.001
361002077451001 UNNAMED TRIB TO SWIFT CREEK NEAR ROCKY MOUNT, NC (LAT 36 10 02N LONG 077 45 10W)											
APR 2000											
10...	.016	<.010	.043	65	710	19	<.003	<.002	<.002	<.002	.006
361310077454601 UNNAMED TRIB TO JACKET SWAMP NEAR ENFIELD, NC (LAT 36 13 10N LONG 077 45 46W)											
APR 2000											
10...	.031	.017	.071	75	1360	65	<.003	<.002	<.002	<.002	.009
361335077483101 ROCKY SWAMP NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 31W)											
APR 2000											
10...	.026	.015	.054	71	1390	129	<.003	<.002	.005	<.002	.024
353517077171001 UNNAMED TRIBUTARY TO TAR RIVER NEAR SIMPSON, NC (LAT 35 35 17N LONG 077 17 10W)											
FEB 2000											
24...	.015	<.010	.049	98	170	29	<.003	<.002	.006	<.002	<.005
353954077342001 UNNAMED TRIB TO TYSON CREEK NEAR FOUNTAIN, NC (LAT 35 39 54N LONG 077 34 20W)											
FEB 2000											
29...	.017	<.010	.031	90	680	36	<.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)
362854077020001 LIVERMAN CREEK TRIBUTARY NEAR MURFREESBORO, NC (LAT 36 28 54N LONG 077 02 01W)											
MAR 2000											
29...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
360620077392401 UNNAMED TRIB TO FISHING CREEK NEAR WHITAKERS, NC (LAT 36 06 20N LONG 077 39 24W)											
APR 2000											
11...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003	<.002	<.001	<.017
355745077301401 DEEP CREEK TRIBUTARY NEAR TARBORO, NC (LAT 35 57 45N LONG 077 30 13W)											
MAR 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
360026077324101 UNNAMED TRIBUTARY TO MAPLE SWAMP NEAR TARBORO, N(LAT 36 00 26N LONG 077 32 41W)											
MAR 2000											
01...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
360653077381801 FISHING CREEK TRIBUTARY NEAR WHITAKERS, NC (LAT 36 06 52N LONG 077 38 18W)											
MAR 2000											
07...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
361002077451001 UNNAMED TRIB TO SWIFT CREEK NEAR ROCKY MOUNT, NC (LAT 36 10 02N LONG 077 45 10W)											
APR 2000											
10...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.002	<.002	<.001	<.017
361310077454601 UNNAMED TRIB TO JACKET SWAMP NEAR ENFIELD, NC (LAT 36 13 10N LONG 077 45 46W)											
APR 2000											
10...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
361335077483101 ROCKY SWAMP NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 31W)											
APR 2000											
10...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.006	<.002	<.001	<.017
353517077171001 UNNAMED TRIBUTARY TO TAR RIVER NEAR SIMPSON, NC (LAT 35 35 17N LONG 077 17 10W)											
FEB 2000											
24...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003	<.005	<.001	<.017
353954077342001 UNNAMED TRIB TO TYSON CREEK NEAR FOUNTAIN, NC (LAT 35 39 54N LONG 077 34 20W)											
FEB 2000											
29...	<.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)
362854077020001 LIVERMAN CREEK TRIBUTARY NEAR MURFREESBORO, NC (LAT 36 28 54N LONG 077 02 01W)											
MAR 2000											
29...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	<.004
360620077392401 UNNAMED TRIB TO FISHING CREEK NEAR WHITAKERS, NC (LAT 36 06 20N LONG 077 39 24W)											
APR 2000											
11...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.014	<.004
355745077301401 DEEP CREEK TRIBUTARY NEAR TARBORO, NC (LAT 35 57 45N LONG 077 30 13W)											
MAR 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
360026077324101 UNNAMED TRIBUTARY TO MAPLE SWAMP NEAR TARBORO, N(LAT 36 00 26N LONG 077 32 41W)											
MAR 2000											
01...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.011	<.004
360653077381801 FISHING CREEK TRIBUTARY NEAR WHITAKERS, NC (LAT 36 06 52N LONG 077 38 18W)											
MAR 2000											
07...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.016	<.004
361002077451001 UNNAMED TRIB TO SWIFT CREEK NEAR ROCKY MOUNT, NC (LAT 36 10 02N LONG 077 45 10W)											
APR 2000											
10...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.022	<.004
361310077454601 UNNAMED TRIB TO JACKET SWAMP NEAR ENFIELD, NC (LAT 36 13 10N LONG 077 45 46W)											
APR 2000											
10...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.009	<.004
361335077483101 ROCKY SWAMP NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 31W)											
APR 2000											
10...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.010	<.004
353517077171001 UNNAMED TRIBUTARY TO TAR RIVER NEAR SIMPSON, NC (LAT 35 35 17N LONG 077 17 10W)											
FEB 2000											
24...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
353954077342001 UNNAMED TRIB TO TYSON CREEK NEAR FOUNTAIN, NC (LAT 35 39 54N LONG 077 34 20W)											
FEB 2000											
29...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.006	<.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)
362854077020001 LIVERMAN CREEK TRIBUTARY NEAR MURFREESBORO, NC (LAT 36 28 54N LONG 077 02 01W)										
MAR 2000										
29...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
360620077392401 UNNAMED TRIB TO FISHING CREEK NEAR WHITAKERS, NC (LAT 36 06 20N LONG 077 39 24W)										
APR 2000										
11...	<.004	<.003	E.004	<.004	<.004	<.004	<.005	<.002	<.018	<.003
355745077301401 DEEP CREEK TRIBUTARY NEAR TARBORO, NC (LAT 35 57 45N LONG 077 30 13W)										
MAR 2000										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
360026077324101 UNNAMED TRIBUTARY TO MAPLE SWAMP NEAR TARBORO, N(LAT 36 00 26N LONG 077 32 41W)										
MAR 2000										
01...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
360653077381801 FISHING CREEK TRIBUTARY NEAR WHITAKERS, NC (LAT 36 06 52N LONG 077 38 18W)										
MAR 2000										
07...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
361002077451001 UNNAMED TRIB TO SWIFT CREEK NEAR ROCKY MOUNT, NC (LAT 36 10 02N LONG 077 45 10W)										
APR 2000										
10...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.002	<.003
361310077454601 UNNAMED TRIB TO JACKET SWAMP NEAR ENFIELD, NC (LAT 36 13 10N LONG 077 45 46W)										
APR 2000										
10...	<.004	<.003	<.006	<.004	<.004	.024	<.005	<.002	<.018	<.003
361335077483101 ROCKY SWAMP NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 31W)										
APR 2000										
10...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
353517077171001 UNNAMED TRIBUTARY TO TAR RIVER NEAR SIMPSON, NC (LAT 35 35 17N LONG 077 17 10W)										
FEB 2000										
24...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.005	<.003
353954077342001 UNNAMED TRIB TO TYSON CREEK NEAR FOUNTAIN, NC (LAT 35 39 54N LONG 077 34 20W)										
FEB 2000										
29...	<.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	PROPACHLOR, 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)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
362854077020001 LIVERMAN CREEK TRIBUTARY NEAR MURFREESBORO, NC (LAT 36 28 54N LONG 077 02 01W)										
MAR 2000										
29...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
360620077392401 UNNAMED TRIB TO FISHING CREEK NEAR WHITAKERS, NC (LAT 36 06 20N LONG 077 39 24W)										
APR 2000										
11...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
355745077301401 DEEP CREEK TRIBUTARY NEAR TARBORO, NC (LAT 35 57 45N LONG 077 30 13W)										
MAR 2000										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
360026077324101 UNNAMED TRIBUTARY TO MAPLE SWAMP NEAR TARBORO, N(LAT 36 00 26N LONG 077 32 41W)										
MAR 2000										
01...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
360653077381801 FISHING CREEK TRIBUTARY NEAR WHITAKERS, NC (LAT 36 06 52N LONG 077 38 18W)										
MAR 2000										
07...	<.007	<.004	<.013	<.005	E.008	<.007	<.013	<.002	<.001	<.002
361002077451001 UNNAMED TRIB TO SWIFT CREEK NEAR ROCKY MOUNT, NC (LAT 36 10 02N LONG 077 45 10W)										
APR 2000										
10...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
361310077454601 UNNAMED TRIB TO JACKET SWAMP NEAR ENFIELD, NC (LAT 36 13 10N LONG 077 45 46W)										
APR 2000										
10...	<.007	<.004	<.013	E.002	<.010	<.007	<.013	<.002	<.001	<.002
361335077483101 ROCKY SWAMP NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 31W)										
APR 2000										
10...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
353517077171001 UNNAMED TRIBUTARY TO TAR RIVER NEAR SIMPSON, NC (LAT 35 35 17N LONG 077 17 10W)										
FEB 2000										
24...	<.007	.008	<.013	<.005	.011	<.007	<.013	<.002	<.001	<.002
353954077342001 UNNAMED TRIB TO TYSON CREEK NEAR FOUNTAIN, NC (LAT 35 39 54N LONG 077 34 20W)										
FEB 2000										
29...	<.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)
354537077282301 UNNAMED TRIBUTARY TO CONETOE CREEK NEAR BETHEL, N(LAT 35 45 37N LONG 077 28 23W)											
FEB 2000 29...	1730	.39	8.9	5.4	213	15.0	12.5	19.3	4.56	4.8	4.0
355017077250301 UNNAMED TRIB TO FOUNTAIN FORK CREEK NR BETHEL, N(LAT 35 50 17N LONG 077 25 03W)											
MAR 2000 01...	0900	.63	9.0	5.5	203	20.5	10.0	18.9	5.09	3.8	4.5
351527076490801 UNNAMED TRIBUTARY TO CYPRESS RUN NEAR AURORA, NC (LAT 35 15 27N LONG 076 49 07W)											
MAR 2000 09...	1000	.00	7.4	6.9	342	23.0	15.5	40.0	5.19	1.5	9.4
352814077055301 BAY BRANCH NEAR WASHINGTON, NC (LAT 35 28 14N LONG 077 05 53W)											
MAR 2000 09...	1530	.00	8.7	7.1	164	27.0	16.0	8.79	3.27	3.2	13.7
353344076425901 UNNAMED CANAL NEAR BELHAVEN, NC (LAT 35 33 43N LONG 076 42 58W)											
MAR 2000 07...	1000	.03	9.2	7.1	223	14.0	12.5	10.5	7.62	5.0	10.5
353549076252701 UNNAMED CANAL TO RUTMAMN CREEK NEAR BELHAVEN, NC (LAT 35 35 49N LONG 076 25 27W)											
MAR 2000 06...	1130	.00	11.3	6.9	520	30.0	14.0	21.7	10.5	17.5	10.3
353648076215601 CANAL TO NEW LAKE NEAR BELHAVEN, NC (LAT 35 36 47N LONG 076 21 56W)											
MAR 2000 06...	1530	8.9	8.9	5.8	77	18.0	14.5	5.03	1.97	.8	7.6
353758076443601 UNNAMED DITCH NEAR BELHAVEN, NC (LAT 35 37 58N LONG 076 44 35W)											
MAR 2000 07...	1700	.00	10.3	7.1	576	16.0	16.0	23.4	10.5	26.1	39.9
353933076340501 PUNGO LAKE CANAL TRIBUTARY NEAR BELHAVEN, NC (LAT 35 39 33N LONG 076 34 04W)											
MAR 2000 07...	1400	.00	6.8	6.2	86	20.0	10.5	7.74	4.03	1.2	3.8
354533076361001 UNNAMED TRIB TO KENDRICK CREEK NEAR PLYMOUTH, NC (LAT 35 45 32N LONG 076 36 10W)											
MAR 2000 08...	1600	--	9.1	6.8	389	28.0	14.0	48.7	9.96	3.9	13.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	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 DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
354537077282301 UNNAMED TRIBUTARY TO CONETOE CREEK NEAR BETHEL, N(LAT 35 45 37N LONG 077 28 23W)											
FEB 2000											
29...	3	4	12.5	<.1	6.8	34.2	.21	.26	.024	6.85	<.010
355017077250301 UNNAMED TRIB TO FOUNTAIN FORK CREEK NR BETHEL, N(LAT 35 50 17N LONG 077 25 03W)											
MAR 2000											
01...	7	9	15.2	<.1	9.2	37.2	.33	.71	<.020	3.55	<.010
351527076490801 UNNAMED TRIBUTARY TO CYPRESS RUN NEAR AURORA, NC (LAT 35 15 27N LONG 076 49 07W)											
MAR 2000											
09...	58	71	17.0	.2	11.2	60.0	.40	.57	.021	<.050	<.010
352814077055301 BAY BRANCH NEAR WASHINGTON, NC (LAT 35 28 14N LONG 077 05 53W)											
MAR 2000											
09...	11	14	30.0	<.1	6.6	14.1	.62	.81	.287	.181	<.010
353344076425901 UNNAMED CANAL NEAR BELHAVEN, NC (LAT 35 33 43N LONG 076 42 58W)											
MAR 2000											
07...	15	19	28.2	.2	5.1	36.2	3.1	3.1	2.31	.760	<.010
353549076252701 UNNAMED CANAL TO RUTMAMN CREEK NEAR BELHAVEN, NC (LAT 35 35 49N LONG 076 25 27W)											
MAR 2000											
06...	39	48	43.1	.3	26.3	86.2	18	21	16.7	.705	.056
353648076215601 CANAL TO NEW LAKE NEAR BELHAVEN, NC (LAT 35 36 47N LONG 076 21 56W)											
MAR 2000											
06...	1	1	13.1	<.1	2.9	15.3	.39	1.5	.029	.254	<.010
353758076443601 UNNAMED DITCH NEAR BELHAVEN, NC (LAT 35 37 58N LONG 076 44 35W)											
MAR 2000											
07...	62	75	74.7	.2	.2	53.5	5.5	5.2	3.07	.148	.019
353933076340501 PUNGO LAKE CANAL TRIBUTARY NEAR BELHAVEN, NC (LAT 35 39 33N LONG 076 34 04W)											
MAR 2000											
07...	3	4	13.7	<.1	6.5	10.7	.68	1.3	<.020	<.050	<.010
354533076361001 UNNAMED TRIB TO KENDRICK CREEK NEAR PLYMOUTH, NC (LAT 35 45 32N LONG 076 36 10W)											
MAR 2000											
08...	74	91	12.4	.1	47.1	101	.91	2.2	.307	<.050	<.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)
354537077282301 UNNAMED TRIBUTARY TO CONETOE CREEK NEAR BETHEL, N(LAT 35 45 37N LONG 077 28 23W)											
FEB 2000 29...	<.006	<.010	E.006	123	10	38	<.003	<.002	2.81	<.002	<.001
355017077250301 UNNAMED TRIB TO FOUNTAIN FORK CREEK NR BETHEL, N(LAT 35 50 17N LONG 077 25 03W)											
MAR 2000 01...	<.006	<.010	.012	137	150	32	<.003	<.002	<.002	<.002	<.001
351527076490801 UNNAMED TRIBUTARY TO CYPRESS RUN NEAR AURORA, NC (LAT 35 15 27N LONG 076 49 07W)											
MAR 2000 09...	.018	<.010	.108	212	480	143	<.003	<.002	<.002	<.002	<.001
352814077055301 BAY BRANCH NEAR WASHINGTON, NC (LAT 35 28 14N LONG 077 05 53W)											
MAR 2000 09...	.009	<.010	.055	110	710	64	<.003	<.002	<.002	<.002	<.001
353344076425901 UNNAMED CANAL NEAR BELHAVEN, NC (LAT 35 33 43N LONG 076 42 58W)											
MAR 2000 07...	.169	.136	.368	151	90	28	<.003	<.002	<.002	<.002	.004
353549076252701 UNNAMED CANAL TO RUTMAMN CREEK NEAR BELHAVEN, NC (LAT 35 35 49N LONG 076 25 27W)											
MAR 2000 06...	.811	.731	.209	287	490	60	<.003	<.002	<.002	<.002	<.001
353648076215601 CANAL TO NEW LAKE NEAR BELHAVEN, NC (LAT 35 36 47N LONG 076 21 56W)											
MAR 2000 06...	<.006	<.010	<.008	76	140	33	<.003	<.002	<.002	<.002	<.001
353758076443601 UNNAMED DITCH NEAR BELHAVEN, NC (LAT 35 37 58N LONG 076 44 35W)											
MAR 2000 07...	.141	.112	.464	364	1980	157	<.003	<.002	<.002	<.002	.006
353933076340501 PUNGO LAKE CANAL TRIBUTARY NEAR BELHAVEN, NC (LAT 35 39 33N LONG 076 34 04W)											
MAR 2000 07...	.007	<.010	.033	119	600	13	E.002	<.002	<.002	<.002	<.001
354533076361001 UNNAMED TRIB TO KENDRICK CREEK NEAR PLYMOUTH, NC (LAT 35 45 32N LONG 076 36 10W)											
MAR 2000 08...	.030	.018	.222	355	3170	98	<.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)
354537077282301 UNNAMED TRIBUTARY TO CONETOE CREEK NEAR BETHEL, N(LAT 35 45 37N LONG 077 28 23W)											
FEB 2000 29...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
355017077250301 UNNAMED TRIB TO FOUNTAIN FORK CREEK NR BETHEL, N(LAT 35 50 17N LONG 077 25 03W)											
MAR 2000 01...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
351527076490801 UNNAMED TRIBUTARY TO CYPRESS RUN NEAR AURORA, NC (LAT 35 15 27N LONG 076 49 07W)											
MAR 2000 09...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
352814077055301 BAY BRANCH NEAR WASHINGTON, NC (LAT 35 28 14N LONG 077 05 53W)											
MAR 2000 09...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353344076425901 UNNAMED CANAL NEAR BELHAVEN, NC (LAT 35 33 43N LONG 076 42 58W)											
MAR 2000 07...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353549076252701 UNNAMED CANAL TO RUTMAMN CREEK NEAR BELHAVEN, NC (LAT 35 35 49N LONG 076 25 27W)											
MAR 2000 06...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353648076215601 CANAL TO NEW LAKE NEAR BELHAVEN, NC (LAT 35 36 47N LONG 076 21 56W)											
MAR 2000 06...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353758076443601 UNNAMED DITCH NEAR BELHAVEN, NC (LAT 35 37 58N LONG 076 44 35W)											
MAR 2000 07...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353933076340501 PUNGO LAKE CANAL TRIBUTARY NEAR BELHAVEN, NC (LAT 35 39 33N LONG 076 34 04W)											
MAR 2000 07...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
354533076361001 UNNAMED TRIB TO KENDRICK CREEK NEAR PLYMOUTH, NC (LAT 35 45 32N LONG 076 36 10W)											
MAR 2000 08...	<.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)
354537077282301 UNNAMED TRIBUTARY TO CONETOE CREEK NEAR BETHEL, N(LAT 35 45 37N LONG 077 28 23W)											
FEB 2000 29...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.014	<.004
355017077250301 UNNAMED TRIB TO FOUNTAIN FORK CREEK NR BETHEL, N(LAT 35 50 17N LONG 077 25 03W)											
MAR 2000 01...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.014	<.004
351527076490801 UNNAMED TRIBUTARY TO CYPRESS RUN NEAR AURORA, NC (LAT 35 15 27N LONG 076 49 07W)											
MAR 2000 09...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
352814077055301 BAY BRANCH NEAR WASHINGTON, NC (LAT 35 28 14N LONG 077 05 53W)											
MAR 2000 09...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.006	<.004
353344076425901 UNNAMED CANAL NEAR BELHAVEN, NC (LAT 35 33 43N LONG 076 42 58W)											
MAR 2000 07...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.006	<.004
353549076252701 UNNAMED CANAL TO RUTMAMN CREEK NEAR BELHAVEN, NC (LAT 35 35 49N LONG 076 25 27W)											
MAR 2000 06...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.014	<.004
353648076215601 CANAL TO NEW LAKE NEAR BELHAVEN, NC (LAT 35 36 47N LONG 076 21 56W)											
MAR 2000 06...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
353758076443601 UNNAMED DITCH NEAR BELHAVEN, NC (LAT 35 37 58N LONG 076 44 35W)											
MAR 2000 07...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.015	<.004
353933076340501 PUNGO LAKE CANAL TRIBUTARY NEAR BELHAVEN, NC (LAT 35 39 33N LONG 076 34 04W)											
MAR 2000 07...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	E.003	<.004
354533076361001 UNNAMED TRIB TO KENDRICK CREEK NEAR PLYMOUTH, NC (LAT 35 45 32N LONG 076 36 10W)											
MAR 2000 08...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.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)
354537077282301 UNNAMED TRIBUTARY TO CONETOE CREEK NEAR BETHEL, N(LAT 35 45 37N LONG 077 28 23W)										
FEB 2000 29...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
355017077250301 UNNAMED TRIB TO FOUNTAIN FORK CREEK NR BETHEL, N(LAT 35 50 17N LONG 077 25 03W)										
MAR 2000 01...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351527076490801 UNNAMED TRIBUTARY TO CYPRESS RUN NEAR AURORA, NC (LAT 35 15 27N LONG 076 49 07W)										
MAR 2000 09...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
352814077055301 BAY BRANCH NEAR WASHINGTON, NC (LAT 35 28 14N LONG 077 05 53W)										
MAR 2000 09...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.006	<.003
353344076425901 UNNAMED CANAL NEAR BELHAVEN, NC (LAT 35 33 43N LONG 076 42 58W)										
MAR 2000 07...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.012	<.003
353549076252701 UNNAMED CANAL TO RUTMAMN CREEK NEAR BELHAVEN, NC (LAT 35 35 49N LONG 076 25 27W)										
MAR 2000 06...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
353648076215601 CANAL TO NEW LAKE NEAR BELHAVEN, NC (LAT 35 36 47N LONG 076 21 56W)										
MAR 2000 06...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
353758076443601 UNNAMED DITCH NEAR BELHAVEN, NC (LAT 35 37 58N LONG 076 44 35W)										
MAR 2000 07...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	.034	<.003
353933076340501 PUNGO LAKE CANAL TRIBUTARY NEAR BELHAVEN, NC (LAT 35 39 33N LONG 076 34 04W)										
MAR 2000 07...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
354533076361001 UNNAMED TRIB TO KENDRICK CREEK NEAR PLYMOUTH, NC (LAT 35 45 32N LONG 076 36 10W)										
MAR 2000 08...	<.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	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
354537077282301 UNNAMED TRIBUTARY TO CONETOE CREEK NEAR BETHEL, N(LAT 35 45 37N LONG 077 28 23W)										
FEB 2000 29...	<.007	<.004	<.013	<.005	E.012	<.007	<.013	<.002	<.001	<.002
355017077250301 UNNAMED TRIB TO FOUNTAIN FORK CREEK NR BETHEL, N(LAT 35 50 17N LONG 077 25 03W)										
MAR 2000 01...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351527076490801 UNNAMED TRIBUTARY TO CYPRESS RUN NEAR AURORA, NC (LAT 35 15 27N LONG 076 49 07W)										
MAR 2000 09...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
352814077055301 BAY BRANCH NEAR WASHINGTON, NC (LAT 35 28 14N LONG 077 05 53W)										
MAR 2000 09...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
353344076425901 UNNAMED CANAL NEAR BELHAVEN, NC (LAT 35 33 43N LONG 076 42 58W)										
MAR 2000 07...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
353549076252701 UNNAMED CANAL TO RUTMAMN CREEK NEAR BELHAVEN, NC (LAT 35 35 49N LONG 076 25 27W)										
MAR 2000 06...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
353648076215601 CANAL TO NEW LAKE NEAR BELHAVEN, NC (LAT 35 36 47N LONG 076 21 56W)										
MAR 2000 06...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
353758076443601 UNNAMED DITCH NEAR BELHAVEN, NC (LAT 35 37 58N LONG 076 44 35W)										
MAR 2000 07...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
353933076340501 PUNGO LAKE CANAL TRIBUTARY NEAR BELHAVEN, NC (LAT 35 39 33N LONG 076 34 04W)										
MAR 2000 07...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
354533076361001 UNNAMED TRIB TO KENDRICK CREEK NEAR PLYMOUTH, NC (LAT 35 45 32N LONG 076 36 10W)										
MAR 2000 08...	<.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)
351144076484401 UNNAMED TRIB TO BOHNER CANAL NEAR NEW BERN, NC (LAT 35 11 44N LONG 076 48 43W)											
MAR 2000											
13...	1630	.22	12.4	5.4	158	7.0	18.5	15.2	4.28	2.7	7.0
352258078022601 UNNAMED TRIBUTARY TO NEUSE RIVER AT GOLDSBORO, N(LAT 35 22 58N LONG 078 02 26W)											
MAY 2000											
01...	1330	.36	8.1	5.9	191	27.0	22.0	13.1	4.50	12.9	5.6
353057078115901 UNNAMED TRIB TO WILSON CREEK NEAR SELMA, NC (LAT 35 30 56N LONG 078 11 58W)											
FEB 2000											
22...	1500	1.0	11.2	5.9	88	16.5	10.0	4.50	1.94	3.7	5.6
353410078211901 UNNAMED TRIB TO POPLAR CREEK AT WILSON MILLS, NC (LAT 35 34 10N LONG 078 21 19W)											
FEB 2000											
22...	1200	.58	11.5	5.7	72	15.5	8.0	4.56	1.55	1.7	5.0
351317077262901 UNNAMED TRIBUTARY TO TRACY SWAMP AT DOVER, NC (LAT 35 13 17N LONG 077 26 29W)											
MAR 2000											
14...	1330	.00	10.9	6.4	263	23.0	13.5	40.9	1.73	1.4	4.1
351538077471301 UNNAMED TRIBUTARY TO BEAR CREEK NEAR LA GRANGE, N(LAT 35 15 38N LONG 077 47 13W)											
FEB 2000											
23...	1230	.05	5.9	5.6	168	19.5	16.5	13.1	5.50	5.2	2.5
351552077391901 FALLING CREEK TRIBUTARY NEAR KINSTON, NC (LAT 35 15 52N LONG 077 39 19W)											
FEB 2000											
23...	1630	1.1	6.8	5.8	217	21.0	15.0	21.1	4.90	4.4	3.1
351918077061501 UNNAMED TRIB TO MAULS SWAMP NEAR WASHINGTON, NC (LAT 35 19 18N LONG 077 06 15W)											
MAR 2000											
14...	0830	.21	5.7	5.6	27	6.0	10.5	4.00	.96	1.0	4.4
353143077253601 UNNAMED TRIB TO SWIFT CREEK NEAR WINTERVILLE, NC (LAT 35 31 43N LONG 077 25 36W)											
FEB 2000											
24...	0800	.70	10.3	6.4	126	15.5	9.5	11.6	2.19	2.5	5.1
352349077401601 UNNAMED TRIB TO RAINBOW CREEK NEAR SNOW HILL, NC (LAT 35 23 49N LONG 077 40 16W)											
FEB 2000											
29...	1200	.92	8.5	5.2	77	20.0	12.0	3.29	2.25	2.9	4.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	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 DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
351144076484401 UNNAMED TRIB TO BOHNER CANAL NEAR NEW BERN, NC (LAT 35 11 44N LONG 076 48 43W)											
MAR 2000 13...	16	19	15.4	.1	7.4	16.3	1.3	1.7	.145	2.81	.053
352258078022601 UNNAMED TRIBUTARY TO NEUSE RIVER AT GOLDSBORO, N(LAT 35 22 58N LONG 078 02 26W)											
MAY 2000 01...	17	21	12.2	<.1	9.1	23.0	.34	.37	.021	4.85	.018
353057078115901 UNNAMED TRIB TO WILSON CREEK NEAR SELMA, NC (LAT 35 30 56N LONG 078 11 58W)											
FEB 2000 22...	10	13	11.4	<.1	2.2	4.9	.36	.43	.022	.494	<.010
353410078211901 UNNAMED TRIB TO POPLAR CREEK AT WILSON MILLS, NC (LAT 35 34 10N LONG 078 21 19W)											
FEB 2000 22...	11	13	7.8	<.1	7.7	5.2	.34	.35	.033	.646	<.010
351317077262901 UNNAMED TRIBUTARY TO TRACY SWAMP AT DOVER, NC (LAT 35 13 17N LONG 077 26 29W)											
MAR 2000 14...	76	93	15.3	.1	1.1	17.8	.39	.84	.054	.631	.018
351538077471301 UNNAMED TRIBUTARY TO BEAR CREEK NEAR LA GRANGE, N(LAT 35 15 38N LONG 077 47 13W)											
FEB 2000 23...	10	12	12.9	<.1	3.3	22.7	.24	.28	<.020	4.23	<.010
351552077391901 FALLING CREEK TRIBUTARY NEAR KINSTON, NC (LAT 35 15 52N LONG 077 39 19W)											
FEB 2000 23...	8	10	21.4	<.1	4.9	36.9	.28	.39	.174	2.66	.011
351918077061501 UNNAMED TRIB TO MAULS SWAMP NEAR WASHINGTON, NC (LAT 35 19 18N LONG 077 06 15W)											
MAR 2000 14...	9	11	6.2	<.1	.3	3.3	.61	.79	<.020	<.050	<.010
353143077253601 UNNAMED TRIB TO SWIFT CREEK NEAR WINTERVILLE, NC (LAT 35 31 43N LONG 077 25 36W)											
FEB 2000 24...	13	16	10.0	<.1	7.5	13.3	.28	.47	.050	2.38	<.010
352349077401601 UNNAMED TRIB TO RAINBOW CREEK NEAR SNOW HILL, NC (LAT 35 23 49N LONG 077 40 16W)											
FEB 2000 29...	2	3	9.8	<.1	5.5	7.3	.38	.49	.034	.698	<.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)
351144076484401 UNNAMED TRIB TO BOHNER CANAL NEAR NEW BERN, NC (LAT 35 11 44N LONG 076 48 43W)											
MAR 2000											
13...	.059	.024	.144	144	630	23	<.003	<.002	<.002	<.002	.010
352258078022601 UNNAMED TRIBUTARY TO NEUSE RIVER AT GOLDSBORO, N(LAT 35 22 58N LONG 078 02 26W)											
MAY 2000											
01...	.013	<.010	.031	122	20	9	<.003	<.002	<.002	<.002	.007
353057078115901 UNNAMED TRIB TO WILSON CREEK NEAR SELMA, NC (LAT 35 30 56N LONG 078 11 58W)											
FEB 2000											
22...	.016	<.010	.035	57	440	18	<.003	<.002	<.002	<.002	<.001
353410078211901 UNNAMED TRIB TO POPLAR CREEK AT WILSON MILLS, NC (LAT 35 34 10N LONG 078 21 19W)											
FEB 2000											
22...	.019	.016	.036	51	450	36	<.003	<.002	<.002	<.002	.013
351317077262901 UNNAMED TRIBUTARY TO TRACY SWAMP AT DOVER, NC (LAT 35 13 17N LONG 077 26 29W)											
MAR 2000											
14...	.049	.029	.294	166	450	34	<.003	<.002	<.002	<.002	E.003
351538077471301 UNNAMED TRIBUTARY TO BEAR CREEK NEAR LA GRANGE, N(LAT 35 15 38N LONG 077 47 13W)											
FEB 2000											
23...	E.005	<.010	.018	99	20	15	<.003	<.002	<.002	<.002	.036
351552077391901 FALLING CREEK TRIBUTARY NEAR KINSTON, NC (LAT 35 15 52N LONG 077 39 19W)											
FEB 2000											
23...	<.006	<.010	.030	131	880	41	<.003	<.002	<.002	<.002	E.004
351918077061501 UNNAMED TRIB TO MAULS SWAMP NEAR WASHINGTON, NC (LAT 35 19 18N LONG 077 06 15W)											
MAR 2000											
14...	.019	<.010	.050	54	770	42	<.003	<.002	<.002	<.002	<.005
353143077253601 UNNAMED TRIB TO SWIFT CREEK NEAR WINTERVILLE, NC (LAT 35 31 43N LONG 077 25 36W)											
FEB 2000											
24...	.011	<.010	.048	88	250	24	<.003	<.002	.011	<.002	.008
352349077401601 UNNAMED TRIB TO RAINBOW CREEK NEAR SNOW HILL, NC (LAT 35 23 49N LONG 077 40 16W)											
FEB 2000											
29...	.036	.020	.058	55	270	17	<.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)
351144076484401 UNNAMED TRIB TO BOHNER CANAL NEAR NEW BERN, NC (LAT 35 11 44N LONG 076 48 43W)											
MAR 2000 13...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.017
352258078022601 UNNAMED TRIBUTARY TO NEUSE RIVER AT GOLDSBORO, N(LAT 35 22 58N LONG 078 02 26W)											
MAY 2000 01...	<.002	<.002	<.003	E.30	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353057078115901 UNNAMED TRIB TO WILSON CREEK NEAR SELMA, NC (LAT 35 30 56N LONG 078 11 58W)											
FEB 2000 22...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353410078211901 UNNAMED TRIB TO POPLAR CREEK AT WILSON MILLS, NC (LAT 35 34 10N LONG 078 21 19W)											
FEB 2000 22...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.008	<.002	<.001	<.017
351317077262901 UNNAMED TRIBUTARY TO TRACY SWAMP AT DOVER, NC (LAT 35 13 17N LONG 077 26 29W)											
MAR 2000 14...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003	<.002	<.001	<.017
351538077471301 UNNAMED TRIBUTARY TO BEAR CREEK NEAR LA GRANGE, N(LAT 35 15 38N LONG 077 47 13W)											
FEB 2000 23...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.052	<.002	<.001	<.017
351552077391901 FALLING CREEK TRIBUTARY NEAR KINSTON, NC (LAT 35 15 52N LONG 077 39 19W)											
FEB 2000 23...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.017
351918077061501 UNNAMED TRIB TO MAULS SWAMP NEAR WASHINGTON, NC (LAT 35 19 18N LONG 077 06 15W)											
MAR 2000 14...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
353143077253601 UNNAMED TRIB TO SWIFT CREEK NEAR WINTERVILLE, NC (LAT 35 31 43N LONG 077 25 36W)											
FEB 2000 24...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.006	<.002	<.001	<.017
352349077401601 UNNAMED TRIB TO RAINBOW CREEK NEAR SNOW HILL, NC (LAT 35 23 49N LONG 077 40 16W)											
FEB 2000 29...	<.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)
351144076484401 UNNAMED TRIB TO BOHNER CANAL NEAR NEW BERN, NC (LAT 35 11 44N LONG 076 48 43W)											
MAR 2000											
13...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	.007
352258078022601 UNNAMED TRIBUTARY TO NEUSE RIVER AT GOLDSBORO, N(LAT 35 22 58N LONG 078 02 26W)											
MAY 2000											
01...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.008	<.004
353057078115901 UNNAMED TRIB TO WILSON CREEK NEAR SELMA, NC (LAT 35 30 56N LONG 078 11 58W)											
FEB 2000											
22...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
353410078211901 UNNAMED TRIB TO POPLAR CREEK AT WILSON MILLS, NC (LAT 35 34 10N LONG 078 21 19W)											
FEB 2000											
22...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
351317077262901 UNNAMED TRIBUTARY TO TRACY SWAMP AT DOVER, NC (LAT 35 13 17N LONG 077 26 29W)											
MAR 2000											
14...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
351538077471301 UNNAMED TRIBUTARY TO BEAR CREEK NEAR LA GRANGE, N(LAT 35 15 38N LONG 077 47 13W)											
FEB 2000											
23...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.004
351552077391901 FALLING CREEK TRIBUTARY NEAR KINSTON, NC (LAT 35 15 52N LONG 077 39 19W)											
FEB 2000											
23...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.117	<.004
351918077061501 UNNAMED TRIB TO MAULS SWAMP NEAR WASHINGTON, NC (LAT 35 19 18N LONG 077 06 15W)											
MAR 2000											
14...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
353143077253601 UNNAMED TRIB TO SWIFT CREEK NEAR WINTERVILLE, NC (LAT 35 31 43N LONG 077 25 36W)											
FEB 2000											
24...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.028	<.004
352349077401601 UNNAMED TRIB TO RAINBOW CREEK NEAR SNOW HILL, NC (LAT 35 23 49N LONG 077 40 16W)											
FEB 2000											
29...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.005	<.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)
351144076484401 UNNAMED TRIB TO BOHNER CANAL NEAR NEW BERN, NC (LAT 35 11 44N LONG 076 48 43W)										
MAR 2000 13...	<.004	<.003	E.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003
352258078022601 UNNAMED TRIBUTARY TO NEUSE RIVER AT GOLDSBORO, N(LAT 35 22 58N LONG 078 02 26W)										
MAY 2000 01...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.010	<.003
353057078115901 UNNAMED TRIB TO WILSON CREEK NEAR SELMA, NC (LAT 35 30 56N LONG 078 11 58W)										
FEB 2000 22...	<.150	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
353410078211901 UNNAMED TRIB TO POPLAR CREEK AT WILSON MILLS, NC (LAT 35 34 10N LONG 078 21 19W)										
FEB 2000 22...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.006	<.003
351317077262901 UNNAMED TRIBUTARY TO TRACY SWAMP AT DOVER, NC (LAT 35 13 17N LONG 077 26 29W)										
MAR 2000 14...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351538077471301 UNNAMED TRIBUTARY TO BEAR CREEK NEAR LA GRANGE, N(LAT 35 15 38N LONG 077 47 13W)										
FEB 2000 23...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351552077391901 FALLING CREEK TRIBUTARY NEAR KINSTON, NC (LAT 35 15 52N LONG 077 39 19W)										
FEB 2000 23...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
351918077061501 UNNAMED TRIB TO MAULS SWAMP NEAR WASHINGTON, NC (LAT 35 19 18N LONG 077 06 15W)										
MAR 2000 14...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
353143077253601 UNNAMED TRIB TO SWIFT CREEK NEAR WINTERVILLE, NC (LAT 35 31 43N LONG 077 25 36W)										
FEB 2000 24...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
352349077401601 UNNAMED TRIB TO RAINBOW CREEK NEAR SNOW HILL, NC (LAT 35 23 49N LONG 077 40 16W)										
FEB 2000 29...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.005	<.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)
351144076484401 UNNAMED TRIB TO BOHNER CANAL NEAR NEW BERN, NC (LAT 35 11 44N LONG 076 48 43W)										
MAR 2000 13...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
352258078022601 UNNAMED TRIBUTARY TO NEUSE RIVER AT GOLDSBORO, N(LAT 35 22 58N LONG 078 02 26W)										
MAY 2000 01...	<.007	<.004	<.013	<.005	.110	<.007	<.013	<.002	<.001	<.002
353057078115901 UNNAMED TRIB TO WILSON CREEK NEAR SELMA, NC (LAT 35 30 56N LONG 078 11 58W)										
FEB 2000 22...	<.007	<.004	<.013	<.005	.086	<.007	<.013	<.002	<.001	<.002
353410078211901 UNNAMED TRIB TO POPLAR CREEK AT WILSON MILLS, NC (LAT 35 34 10N LONG 078 21 19W)										
FEB 2000 22...	<.007	<.004	<.013	E.004	<.010	<.007	<.013	<.002	<.001	<.002
351317077262901 UNNAMED TRIBUTARY TO TRACY SWAMP AT DOVER, NC (LAT 35 13 17N LONG 077 26 29W)										
MAR 2000 14...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351538077471301 UNNAMED TRIBUTARY TO BEAR CREEK NEAR LA GRANGE, N(LAT 35 15 38N LONG 077 47 13W)										
FEB 2000 23...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351552077391901 FALLING CREEK TRIBUTARY NEAR KINSTON, NC (LAT 35 15 52N LONG 077 39 19W)										
FEB 2000 23...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
351918077061501 UNNAMED TRIB TO MAULS SWAMP NEAR WASHINGTON, NC (LAT 35 19 18N LONG 077 06 15W)										
MAR 2000 14...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
353143077253601 UNNAMED TRIB TO SWIFT CREEK NEAR WINTERVILLE, NC (LAT 35 31 43N LONG 077 25 36W)										
FEB 2000 24...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
352349077401601 UNNAMED TRIB TO RAINBOW CREEK NEAR SNOW HILL, NC (LAT 35 23 49N LONG 077 40 16W)										
FEB 2000 29...	<.007	<.004	<.013	<.005	E.007	<.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)
352624077355201 UNNAMED TRIB TO BEAVERDAM RUN NEAR SNOW HILL, NC (LAT 35 26 24N LONG 077 35 52W)											
MAY 2000											
02...	0730	.41	7.1	5.9	180	26.5	19.0	14.8	4.33	5.7	5.6
345441076490901 STILL GUT NEAR HAVELOCK, NC (LAT 34 54 40N LONG 076 49 09W)											
MAR 2000											
13...	1300	.17	6.7	5.6	122	12.5	13.0	15.3	1.37	.6	8.2
350138077080501 ISLAND CREEK NEAR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 04W)											
MAY 2000											
02...	1200	22	7.6	6.5	88	27.0	19.0	13.9	.82	.3	4.2
350400077101501 UNNAMED TRIB TO TRENT RIVER NEAR NEW BERN, NC (LAT 35 04 00N LONG 077 10 15W)											
MAR 2000											
13...	0830	.34	8.9	5.5	156	14.0	10.5	20.6	2.46	1.4	5.3

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)
352624077355201 UNNAMED TRIB TO BEAVERDAM RUN NEAR SNOW HILL, NC (LAT 35 26 24N LONG 077 35 52W)											
MAY 2000											
02...	15	18	15.8	.2	5.3	26.8	.34	.52	.098	2.57	.013
345441076490901 STILL GUT NEAR HAVELOCK, NC (LAT 34 54 40N LONG 076 49 09W)											
MAR 2000											
13...	41	50	13.0	<.1	8.3	2.3	.21	.43	<.020	<.050	<.010
350138077080501 ISLAND CREEK NEAR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 04W)											
MAY 2000											
02...	30	37	7.2	<.1	4.9	2.2	.40	.46	<.020	<.050	<.010
350400077101501 UNNAMED TRIB TO TRENT RIVER NEAR NEW BERN, NC (LAT 35 04 00N LONG 077 10 15W)											
MAR 2000											
13...	42	51	10.6	<.1	8.0	16.9	.13	.40	<.020	.114	<.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)
352624077355201 UNNAMED TRIB TO BEAVERDAM RUN NEAR SNOW HILL, NC (LAT 35 26 24N LONG 077 35 52W)											
MAY 2000											
02...	.009	<.010	.035	112	100	38	<.003	<.002	<.005	<.002	.009
345441076490901 STILL GUT NEAR HAVELOCK, NC (LAT 34 54 40N LONG 076 49 09W)											
MAR 2000											
13...	.010	<.010	.041	95	330	9	<.003	<.002	<.002	<.002	<.001
350138077080501 ISLAND CREEK NEAR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 04W)											
MAY 2000											
02...	.048	.036	.060	98	520	44	<.003	<.002	<.002	<.002	<.001
350400077101501 UNNAMED TRIB TO TRENT RIVER NEAR NEW BERN, NC (LAT 35 04 00N LONG 077 10 15W)											
MAR 2000											
13...	.056	.044	.185	105	220	36	<.003	<.002	<.002	<.002	<.001

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)
352624077355201 UNNAMED TRIB TO BEAVERDAM RUN NEAR SNOW HILL, NC (LAT 35 26 24N LONG 077 35 52W)											
MAY 2000											
02...	<.002	<.002	<.003	<.020	<.010	<.004	<.002	<.002	<.002	<.001	<.017
345441076490901 STILL GUT NEAR HAVELOCK, NC (LAT 34 54 40N LONG 076 49 09W)											
MAR 2000											
13...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
350138077080501 ISLAND CREEK NEAR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 04W)											
MAY 2000											
02...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017
350400077101501 UNNAMED TRIB TO TRENT RIVER NEAR NEW BERN, NC (LAT 35 04 00N LONG 077 10 15W)											
MAR 2000											
13...	<.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)
352624077355201 UNNAMED TRIB TO BEAVERDAM RUN NEAR SNOW HILL, NC (LAT 35 26 24N LONG 077 35 52W)											
MAY 2000 02...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.030	<.004
345441076490901 STILL GUT NEAR HAVELOCK, NC (LAT 34 54 40N LONG 076 49 09W)											
MAR 2000 13...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
350138077080501 ISLAND CREEK NEAR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 04W)											
MAY 2000 02...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
350400077101501 UNNAMED TRIB TO TRENT RIVER NEAR NEW BERN, NC (LAT 35 04 00N LONG 077 10 15W)											
MAR 2000 13...	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.006	<.004

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)
352624077355201 UNNAMED TRIB TO BEAVERDAM RUN NEAR SNOW HILL, NC (LAT 35 26 24N LONG 077 35 52W)										
MAY 2000 02...	<.004	.045	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
345441076490901 STILL GUT NEAR HAVELOCK, NC (LAT 34 54 40N LONG 076 49 09W)										
MAR 2000 13...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
350138077080501 ISLAND CREEK NEAR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 04W)										
MAY 2000 02...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
350400077101501 UNNAMED TRIB TO TRENT RIVER NEAR NEW BERN, NC (LAT 35 04 00N LONG 077 10 15W)										
MAR 2000 13...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.006	<.003

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD FEBRUARY 2000 TO MAY 2000

DATE	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PRONAMIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
352624077355201 UNNAMED TRIB TO BEAVERDAM RUN NEAR SNOW HILL, NC (LAT 35 26 24N LONG 077 35 52W)										
MAY 2000										
02...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
345441076490901 STILL GUT NEAR HAVELOCK, NC (LAT 34 54 40N LONG 076 49 09W)										
MAR 2000										
13...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
350138077080501 ISLAND CREEK NEAR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 04W)										
MAY 2000										
02...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
350400077101501 UNNAMED TRIB TO TRENT RIVER NEAR NEW BERN, NC (LAT 35 04 00N LONG 077 10 15W)										
MAR 2000										
13...	<.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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