WATER-QUALITY DATA FROM CONTINUOUSLY MONITORED SITES IN THE ALBEMARLE SOUND ESTUARINE SYSTEM, NORTH CAROLINA, 1989-91

93-07

U.S. GEOLOGICAL SURVEY

Open-File Report 93-69

Prepared in cooperation with the

ALBEMARLE-PAMLICO ESTUARINE STUDY of the

NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH,

AND NATURAL RESOURCES

COVER PHOTOGRAPH: Chowan River, North Carolina

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Raleigh, North Carolina

1993

U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY
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CONVERSION FACTORS, VERTICAL DATUM, AND TEMPERATURE

Multiply	By	To obtain
	Length	
inch (in.)	25.4	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
	Area	
square mile (mi^2)	2.590	square kilometer
	Volume	
gallon (gal)	3.785	liter
	Flow	
cubic foot per second (ft^3/s)	0.3048	meter per second
	Mass	
ounce, avoirdupois (oz)	28.35	gram
	Mass per unit volume	
grain per gallon (gr/gal)	0.05841	milligram per liter
	Specific conductance	
micromho per centimeter at 25 degrees Celsius (µmho/cm at 25 °C)	1.000	microsiemen per centimeter at 25 degrees Celsius

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum 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.

Temperature: Water temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by the following equation:

$$°F = 1.8\ (°C) + 32$$

Definitions used in this report:

Water year - The period October 1 through September 30, determined by the calendar year in which it ends.

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ABSTRACT

Water-quality measurements were made at 11 sites in or near North Carolina's Albemarle Sound. Measurements taken at 15-minute intervals included near-surface and near-bottom specific conductance; near-surface water temperature; and near-surface, mid-depth, and near-bottom dissolved-oxygen concentrations.

Salinities generally ranged from less than 0.1 to about 32 parts per thousand during the period October 1989 through September 1991. Recorded water temperatures were between zero and 35 degrees Celsius during the measurement period. Dissolved-oxygen concentrations ranged from less than 1 milligram per liter to 19 milligrams per liter.

Daily mean values of specific conductance; salinity; water temperature; dissolved-oxygen concentrations; and dissolved oxygen, percent saturation, are presented in tables and graphs. Five-day mean values of water temperature and dissolved-oxygen concentrations for day and night conditions are also presented in tables.

INTRODUCTION

Estuarine environmental monitoring has been defined as "a continuing program of modeling, measurement, analysis, and synthesis that predicts and quantifies environmental conditions or contaminants and incorporates that information effectively into decision making in environmental management" (National Research Council, 1990). Monitoring data can provide information to (1) evaluate pollution abatement activities and control waste discharges, (2) measure trends in water quality, (3) detect new environmental problems in their early stages, potentially leading to lower-cost solutions, (4) evaluate human health hazards, and (5) determine the response of organisms to changes in habitat quality (National Academy of Sciences, 1977; Pearce and Despres-Patanjo, 1988; National Research Council, 1990).

The estuarine environment is extremely complex and highly variable, and it is often difficult to detect changes or to separate trends from natural variations. For example, salinity may be affected by tides, variable freshwater inputs, meteorological conditions, bathymetry, sea-level rise, and other factors, all of which are temporally and spatially variable. Moreover, there is a physical coupling between salinity and flow. Flows are

influenced by spatial salinity (density) gradients. Flow, in turn, advects and mixes salt, and thereby affects the spatial salinity gradients. Salinity is also an important biological factor affecting species productivity and diversity, as well as perhaps the appearance of certain finfish diseases (Noga and Stanley, 1989).

Likewise, dissolved oxygen fluctuates in response to flows, to the salinity-controlled density gradients, to diurnal and vertical variations in biological community metabolism, and to variable water-quality conditions. Because vertical density gradients control the transport of oxygen through the water column, salinity distributions and dissolved-oxygen concentrations are closely related. Adequate dissolved-oxygen levels are critical to the biological health of the estuary.

Because of the complex and variable nature of estuaries, continuously recording water-quality instruments can play a key role in monitoring. For example, after evaluating data collected at bimonthly intervals, the Chesapeake Bay Program staff recognized the need for continuously monitored salinity, dissolved oxygen, and temperature data (Martin Marietta Environmental Systems, 1987a, 1987b). The recently initiated Environmental Monitoring and Assessment Program continuously monitored near-bottom dissolved oxygen during the summer of 1990 at 30 estuarine sites from Massachusetts to Virginia (Holland, 1990).

The Albemarle-Pamlico (A-P) Estuarine Study implemented an estuarine monitoring program in 1988 (Holman, 1988). The monitoring program includes an expanded ambient water-quality monitoring network (North Carolina Department of Environment, Health, and Natural Resources, 1990), fish tissue analysis, sediment-oxygen demand studies, a citizens monitoring program, and a network of continuous water-quality monitors. The expanded ambient-monitoring network and the continuous-monitoring network were designed to provide compatible data, and in many locations, the ambient- and continuous-monitoring network sites coincide. Information from these and other biological and water-quality monitoring activities in the Sound provides a comprehensive overview of the health of the estuarine system.

In 1989, the U.S. Geological Survey (USGS), in cooperation with the North Carolina Department of Environment, Health, and Natural Resources, initiated an investigation of water quality in the Albemarle Sound estuarine system. The investigation involves the continuous measurement of certain water-quality constituents and analysis of those data to (1) provide information to be used in conjunction with other A-P Study monitoring data to characterize baseline conditions in the estuary; (2) evaluate temporal trends after sufficient data are available; (3) characterize the extent, frequency, and duration of density stratification; (4) describe the dissolved-oxygen regime, including the relation of hypoxia to density stratification; and (5) provide data for hydrodynamic and water-quality modeling. This report is the first of a series of reports summarizing data collected from the Albemarle Sound estuarine system.

Purpose and Scope

The purpose of this report is to provide a summary of the continuously monitored water-quality data obtained in the Albemarle Sound estuarine system. This report covers

the period from October 1989 through September 1991. Water-quality data were measured at 15-minute intervals at 11 sites in the Albemarle Sound estuarine system. Measurements include near-surface and near-bottom specific conductance; near-surface water temperature; and near-surface, mid-depth, and near-bottom dissolved-oxygen concentrations. Specific-conductance data were converted to and reported as salinity values. Instantaneous data are summarized as daily mean values in tables and graphs.

Acknowledgments

This ongoing investigation is being conducted in cooperation with the North Carolina Department of Environment, Health, and Natural Resources (EHNR), Albemarle-Pamlico Estuarine Study. The contents of this report do not necessarily reflect the views and policies of the Albemarle-Pamlico Estuarine Study.

Douglas N. Rader (formerly of EHNR) saw the urgent need for continuously monitored water-quality data and was helpful in initiating this study; Robert E. Holman (formerly of EHNR) and Randall G. Waite (EHNR) have helped ensure the continued operation of the monitoring network. Steve Tedder, Jimmie Overton, Dianne Reid, and Jay Sauber of the North Carolina Division of Environmental Management, and Mike Street and Jess Hawkins of the North Carolina Division of Marine Fisheries cooperated in the design of the water-quality monitoring network and have provided continuing support for the study. The U.S. Coast Guard, Fifth District, granted permission for use of existing channel markers to support data-collection instrumentation. The Coast Guard also assisted in instrument installation at some of the sites and participated in the recovery of instrumentation at downed channel markers.

Study Area

Albemarle Sound drains an 18,355 mi^2 area in North Carolina and Virginia and has a surface area of about 480 mi^2 (fig. 1). Six lateral estuaries (Chowan River, Perquimans River, Little River, Pasquotank River, North River, and Alligator River) surround Albemarle Sound and contribute an additional 300 mi^2 of water surface area to the system. Although depths range up to 30 ft, the average depth of the sound is 11.5 ft, and depths seldom exceed 20 ft (Giese and others, 1985).

The net annual-average inflow to Albemarle Sound is about 17,000 ft^3/s, of which over half (8,900 ft^3/s) is supplied by the Roanoke River through a network of tributaries at the western end of the Sound. Because of the relatively high freshwater inflows and the absence of a direct connection with the ocean, salinities in Albemarle Sound are typically less than 5 parts per thousand (ppt) (Copeland and others, 1984). Inflows generally contain low sediment loads, although the waters of the Sound have been classified as being turbid (Copeland and others, 1984). Much of the bottom of the Sound consists of silt and clay (Wells, 1989), which indicates that resuspension and transport of these fine-grain materials may play an important role in water-quality processes in the Sound.

Instrument locations in the study area are shown in figure 2 and described in table 1. Instruments are located on U.S. Coast Guard channel markers or on bridge fenders.

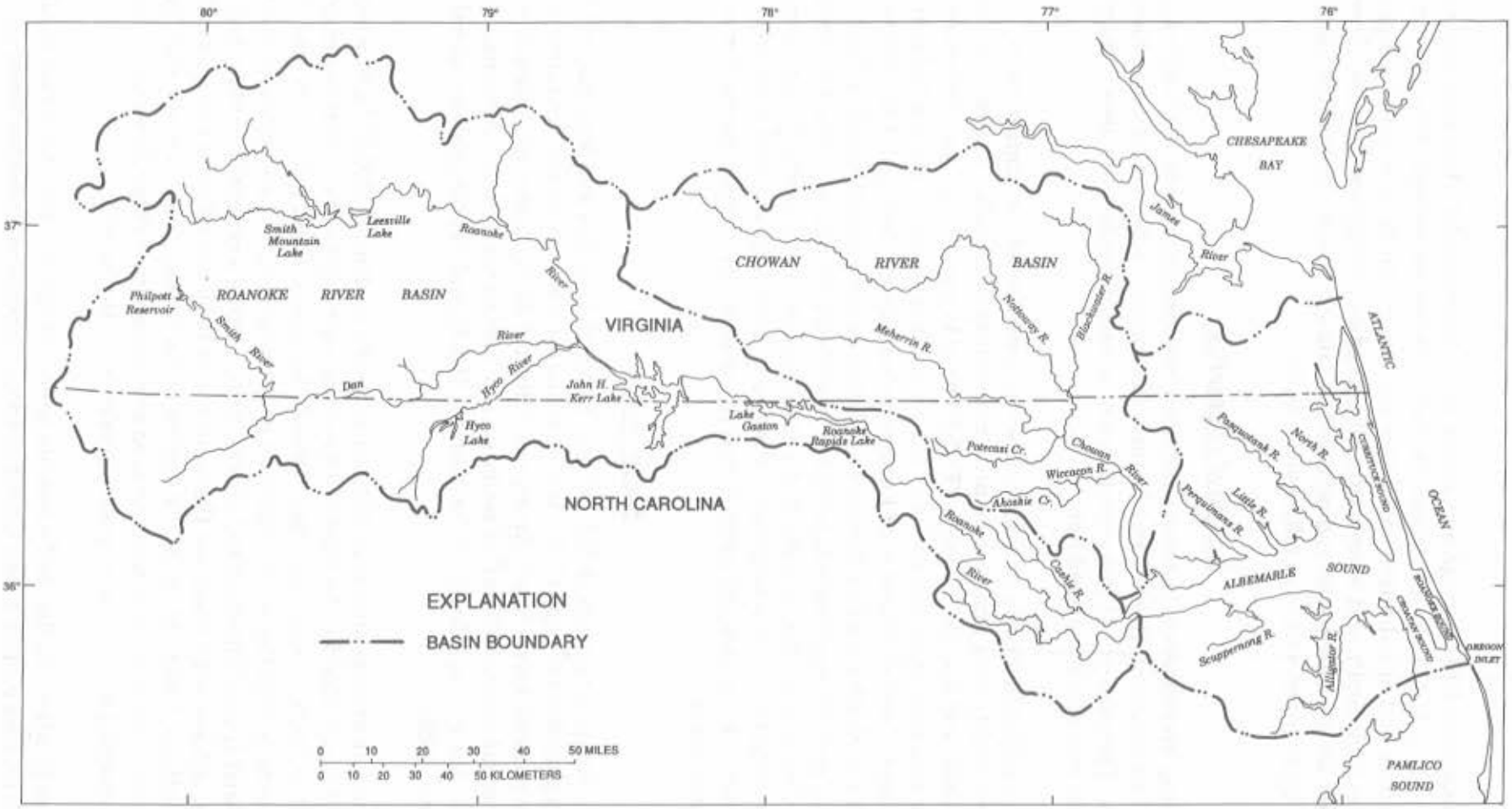

Figure 1.--Albemarle Sound estuarine system drainage basins in North Carolina and Virginia.

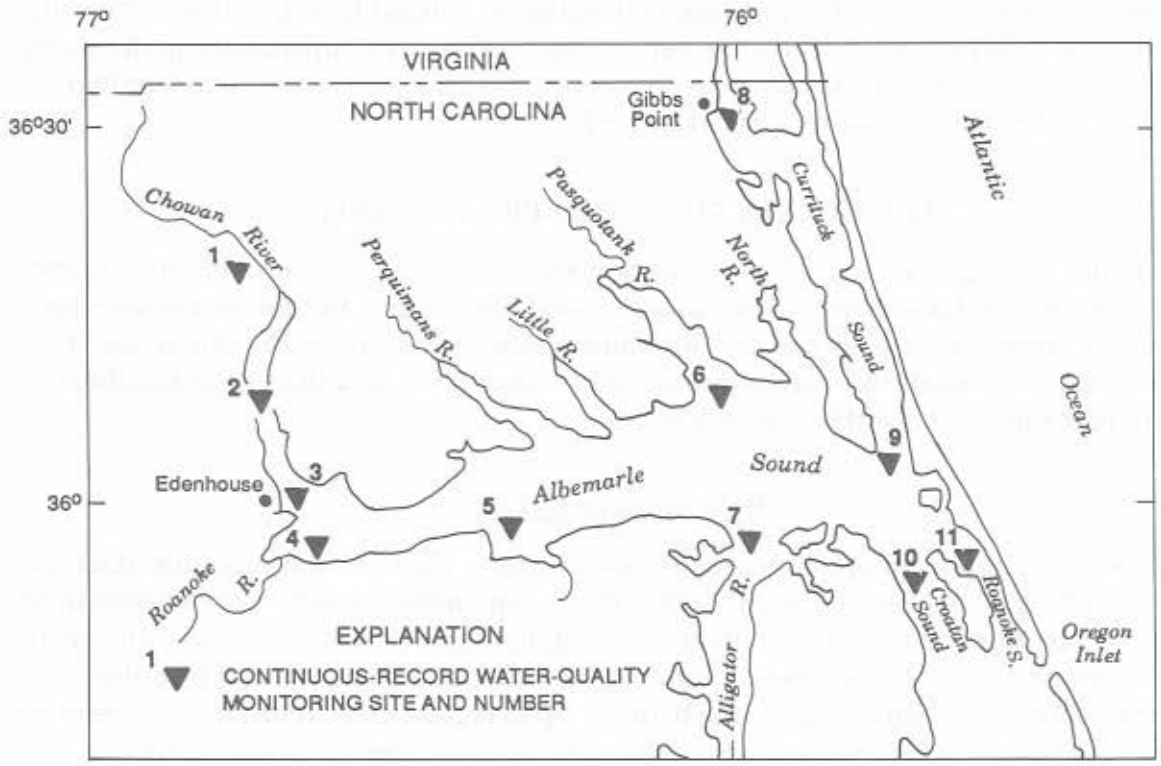

Figure 2.--Continuous water-quality monitoring sites in the Albemarle Sound study area of North Carolina.

Table 1.--*Continuous water-quality monitoring sites for specific conductance, water temperature, and dissolved-oxygen concentrations*

Site number (fig. 2)	Location	Latitude	Longitude	Mean water depth (feet)	Period of record
1	Chowan River at light 22	36°21'48"	76°46'42"	20	12/89-09/91
2	Chowan River at light 5	36°10'02"	76°44'38"	18	01/90-09/91
3	Chowan River near Edenhouse	36°02'52"	76°41'42"	22	10/89-09/91
4	Roanoke River at light 1	35°57'17"	76°39'52"	12	11/90-09/91
5	Albemarle Sound at light 3	36°00'06"	76°23'36"	10	10/89-09/91
6	Pasquotank River at light 1	36°09'06"	76°01'18"	10	01/91-09/91
7	Alligator River at light 8	35°55'58"	75°59'47"	12	01/90-09/91
8	North Landing River at Gibbs Point[1]	36°32'45"	76°01'51"	8	01/91-09/91
9	Currituck Sound at U.S. Highway 158 bridge	36°05'12"	75°46'06"	9	01/90-09/91
10	Croatan Sound at U.S. Highway 264 bridge	35°55'00"	75°44'50"	20	01/90-09/91
11	Roanoke Sound at channel light 22	35°53'00"	75°37'30"	9	01/90-09/91

[1]Specific conductance and water temperature only.

Between October 1989 and September 1991, salinities ranged from less than 0.1 ppt to 32 ppt in the study area. During the same period, recorded water temperatures in the study area were between 0 °C and 35 °C. Dissolved-oxygen concentrations of less than 1 milligram per liter (mg/L) to 19 mg/L were recorded (table 2).

DATA COLLECTION AND PROCESSING

Standard USGS procedures for the collection and analysis of water-quality data were followed. Procedures for servicing data-collection instrumentation and for processing the data were also developed for the specific instrumentation and conditions of this study. The description and function of the instruments used to collect data, as well as field and data-processing procedures, are outlined in this section.

Instrumentation

The central component of the data-collection system is the USGS minimonitor (Gordon and Katzenbach, 1983; Ficken and Scott, 1989). The minimonitor consists of (1) a water-tight can about 14.5 in. high by 10.5 in. in diameter containing signal conditioners, (2) cables with waterproof connectors, (3) water-quality sensors, (4) a 12-volt (V) battery, and (5) solar panels for maintaining a full charge on the battery. Up to eight water-quality sensors may be attached to the minimonitor. Sensors are available to measure specific conductance, temperature, dissolved oxygen, and pH. pH was not measured in this investigation.

The specific-conductance sensor uses four electrodes to reduce the effects of fouling. Compensation for ambient water temperature is made by a signal conditioner so that all specific-conductance values are referenced to a temperature of 25 °C. Measurement ranges of 0 to 100, 0 to 1,000, 0 to 10,000, or 0 to 100,000 microsiemens per centimeter (µS/cm) may be selected. Following calibration, specific-conductance measurements are accurate to ±3 percent of selected full scale in a temperature range of 0 to 40 °C. The standard range for the temperature sensor is from 0 to 50 °C, and for a calibrated system, temperature measurements are accurate to within ±1 percent of full scale.

The dissolved-oxygen sensor uses a polarographic membrane and stirrer manufactured by Yellow Springs Instrument Company[1] and a signal conditioner that was designed by the USGS. The dissolved-oxygen measurement system is potentially subject to more types of errors than the temperature and specific-conductance measurement systems. Potential errors include sensor background error, temperature-compensation uncertainty, and sensor-calibration uncertainty. Measurements are estimated to be accurate within about 0.3 mg/L for a calibrated system.

The minimonitor is controlled by a CR10 measurement and control module (Campbell Scientific, Inc., 1988). The CR10 is a fully programmable datalogger and controller which

[1] Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government or State of North Carolina.

Table 2.--*Maximum and minimum values recorded for specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at the water-quality monitoring sites, October 1989 through September 1991*

[µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; ppt, parts per thousand; °C, degrees Celsius; mg/L, milligram per liter; <, less than; ---, dissolved oxygen data were not collected at site 8]

Site number (fig. 2)	Station name and number[1] (Period of record)	Specific conductance (µS/cm at 25 °C) and salinity (ppt), near surface		Specific conductance (µS/cm at 25 °C) and salinity (ppt), near bottom		Water temperature, near surface (°C)		Dissolved oxygen, near surface (mg/L)	
		Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)
1	Chowan River at light 22, 0205338780 (12/89-9/91)	399 0.18 (3/8/91)	39 0.02 (4/8/91)	433 0.20 (3/8/91)	45 0.02 (4/7-9/91)	32.6 (7/22-23/91)	1.1 (12/19/89)	13.1 (12/19/89)	<1.0 (7/25/90; 6/20,21, 23-25/91)
2	Chowan River at light 5, 0205363590 (1/90-9/91)	305 0.13 (3/19/91)	21 0.01 (6/22/90)	303 0.13 (3/22/91)	61 0.02 (8/2/90)	32.0 (7/9/91)	5.4 (1/27/91)	13.2 (6/16/91)	4.0 (8/7/91)
3	Chowan River near Edenhouse, 0205365200 (10/89-9/91)	316 0.14 (3/26/91)	47 0.02 (1/30/90)	2,700 1.4 (1/30/90)	66 0.03 (7/18/90; 5/26/91)	35.0 (8/16/91)	0.0 (12/23-31/89)	13.8 (12/23/89)	1.3 (7/31/90)
4	Roanoke River at light 1, 0208411443 (11/90-9/91)	564 0.26 (9/9/91)	78 0.03 (11/18-19/90)	618 0.28 (6/29/91)	81 0.03 (3/21/91)	31.3 (7/8/91)	10.8 (11/19/90)	12.4 (5/30; 6/10/91)	4.6 (8/10/91)
5	Albemarle Sound at light 3, 0208115600 (10/89-9/91)	3,410 1.8 (10/12/90)	92 0.04 (4/27/90)	4,040 2.1 (11/15/90)	64 0.03 (7/13/90)	32.2 (7/23/90)	3.7 (2/17/91)	14.8 (3/21/91)	5.5 (7/10/91)
6	Pasquotank River at light 1, 0204387900 (1/91-9/91)	6,570 3.6 (3/10/91)	673 0.3 (4/22/91)	10,100 5.7 (6/24/91)	812 0.4 (4/22/91)	31.2 (7/8/91)	3.2 (2/17/91)	13.5 (2/21/91)	6.7 (9/19/91)

[1]U.S. Geological Survey downstream order number.

Table 2.--*Maximum and minimum values recorded for specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at the water-quality monitoring sites, October 1989 through September 1991*--Continued

µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; ppt, parts per thousand; °C, degrees Celsius; mg/L, milligram per liter; <, less than; ---, dissolved oxygen data were not collected at site 8]

Site number (fig. 2)	Station name and number[1] (Period of record)	Specific conductance (µS/cm at 25 °C) and salinity (ppt), near surface		Specific conductance (µS/cm at 25 °C) and salinity (ppt), near bottom		Water temperature, near surface (°C)		Dissolved oxygen, near surface (mg/L)	
		Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)
7	Alligator River at light 8 0208117835 (1/90-9/91)	7,500 4.1 (10/18/90)	603 0.3 (5/21/90)	7,500 4.1 (6/17/91)	638 0.3 (5/21/90)	31.3 (7/6/91)	6.3 (1/27/91)	17.0 (1/29/91)	0.4 (7/30/91)
8	North Landing River at Gibbs Point, 0204352850 (1/91-9/91)	1,810 0.9 (3/29/91)	850 0.4 (8/26/91)	1,800 0.9 (6/20/91)	836 0.4 (8/21/91)	31.6 (7/3,8/91)	4.4 (1/26/91)	---	---
9	Currituck Sound at U.S. Highway 158 bridge, 0204295500 (1/90-9/91)	15,600 9.1 (10/18/90)	679 0.3 (4/19/90)	15,700 9.1 (10/18/90)	831 0.4 (7/3/90)	32.5 (7/8/91)	4.2 (1/26; 2/17/91)	12.8 (2/5/91)	2.7 (12/12/90; 7/17/91)
10	Croatan Sound at U.S. Highway 264 bridge, 0208117950 (1/90-9/91)	35,000 22.0 (6/10/91)	725 0.3 (5/15/90)	37,600 23.8 (6/11-12/91)	800 0.4 (5/23/90)	33.2 (7/12/90)	5.8 (1/26/91)	16.2 (2/19/91)	0.1 (1/7/91)
11	Roanoke Sound at channel light 22, 0208117980 (1/90-9/91)	49,400 32.3 (4/20/91)	2,150 1.1 (2/26/90)	48,900 31.9 (10/15/90)	1,910 1.0 (2/26/90)	32.3 (7/22/91)	3.5 (2/17/91)	16.3 (4/10/91)	4.8 (7/22/90; 9/26/91)

[1]U.S. Geological Survey downstream order number.

Table 2.--*Maximum and minimum values recorded for specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at the water-quality monitoring sites, October 1989 through September 1991*--Continued

µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; ppt, parts per thousand; °C, degrees Celsius; mg/L, milligram per liter; <, less than; ---, dissolved oxygen data were not collected at site 8]

Site number (fig. 2)	Station name and number[1] (Period of record)	Dissolved oxygen, percent saturation, near surface (percent)		Dissolved oxygen, mid-depth (mg/L)		Dissolved oxygen, percent saturation, mid-depth (percent)		Dissolved oxygen, near bottom (mg/L)		Dissolved oxygen, percent saturation, near bottom (percent)	
		Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)
1	Chowan River at light 22, 0205338780 (12/89-9/91)	160 (6/10/91)	<10 (7/25/90; 6/21,23-25/91)	14.6 (1/11,12, 14,15/91)	<1.0 (7/8,9,10,14 15,22,23,24, 26-28; 8/6, 18,23-25,27/91)	133 (12/24/90)	<10 (7/8-10,15, 22-24,26; 8/18,23,27/91)	14.0 (12/16/89)	<1.0 (6/19; 8/21-23/90; 7/9,15,23,24, 28; 8/3-7, 12-26; 9/1/91)	103 (12/16/89)	<10 (8/21,22/90; 7/9,23; 8/3,5-7,13, 18,20-26; 9/1/91)
2	Chowan River at light 5, 0205363590 (1/90-9/91)	166 (6/16/91)	52 (8/7,9,10, 13/91)	15.3 (10/31/90)	2.8 (7/29/90)	165 (6/26/90)	37 (7/29/90)	12.2 (3/8,10/90)	1.8 (8/18/91)	149 (6/27/90)	22 (8/18/91)
3	Chowan River near Edenhouse, 0205365200 (10/89-9/91)	172 (7/8/91)	17 (7/31/90)	14.9 (12/23-24/89)	2.7 (10/1/89)	150 (11/3/89)	30 (10/1/89)	18.4 (1/11/90)	2.8 (8/3/90)	159 (10/24/90)	34 (9/4/91)
4	Roanoke River at light 1, 0208411443 (11/90-9/91)	164 (6/29/91)	55 (11/16,20, 22/90)	12.2 (2/17-18/91)	2.5 (8/24/91)	153 (6/29/91)	31 (8/24/91)	12.1 (2/17-18/91)	3.4 (8/24/91)	152 (6/29/91)	43 (8/24/91)
5	Albemarle Sound at light 3, 0208115600 (10/89-9/91)	144 (8/18/90)	68 (10/3/90)	14.1 (2/17; 3/17/91)	4.7 (8/7/90)	134 (10/14/90)	59 (8/7/90)	13.8 (11/24, 25/90)	3.4 (5/28/91)	155 (4/27/90)	42 (3/16; 5/28/91)
6	Pasquotank River at light 1, 0204387900 (1/91-9/91)	134 (9/4/91)	82 (9/19/91)	11.7 (2/22; 3/17/91)	5.1 (7/18/91)	129 (4/29; 5/1/91)	66 (7/18/91)	12.8 (2/17/91)	2.6 (8/5/91)	119 (7/17/91)	34 (8/5/91)

[1]U.S. Geological Survey downstream order number.

Table 2.--*Maximum and minimum values recorded for specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at the water-quality monitoring sites, October 1989 through September 1991*--Continued

µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; ppt, parts per thousand; °C, degrees Celsius; mg/L, milligram per liter; <, less than; ---, dissolved oxygen data were not collected at site 8]

Site number (fig. 2)	Station name and number[1] (Period of record)	Dissolved oxygen, percent saturation, near surface (percent)		Dissolved oxygen, mid-depth (mg/L)		Dissolved oxygen, percent saturation, mid-depth (percent)		Dissolved oxygen, near bottom (mg/L)		Dissolved oxygen, percent saturation, near bottom (percent)	
		Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)	Maximum (Date)	Minimum (Date)
7	Alligator River at light 8, 0208117835 (1/90-9/91)	160 (7/8/91)	5 (7/30/91)	19.3 (1/25/91)	1.1 (8/4/91)	180 (2/22/91)	14 (11/15/90; 8/4/91)	16.5 (1/18/90)	0.5 (4/10/91)	143 (4/22/90)	<10 (4/10/91)
8	North Landing River at Gibbs Point, 0204352850 (1/91-9/91)	---	---	---	---	---	---	---	---	---	---
9	Currituck Sound at U.S. Highway 158 bridge, 0204295500 (1/90-9/91)	136 (6/18/90)	23 (12/12/90)	12.6 (2/19/91)	2.8 (7/17/91)	128 (7/21/91)	36 (7/17/91)	15.7 (5/26/90)	0.4 (9/15/91)	179 (5/26/90)	5 (9/15/91)
10	Croatan Sound at U.S. Highway 264 bridge, 0208117950 (1/90-9/91)	129 (6/29/90)	7 (12/22/90)	13.3 (2/19/91)	1.7 (7/21/90; 8/7/91)	149 (7/12/90)	22 (7/21/90)	13.4 (2/3/91)	0.7 (7/21/90; 8/29/91)	144 (5/2/90)	9 (7/21/90; (8/29/91)
11	Roanoke Sound at channel light 22, 0208117980 (1/90-9/91)	186 (4/10/91)	53 (9/29/91)	13.0 (3/24/90)	3.4 (8/8/90)	133 (3/24/90)	40 (10/23/90)	13.5 (12/29/90)	3.6 (7/29/90)	141 (6/20/90)	37 (12/31/90)

[1]U.S. Geological Survey downstream order number.

will accept voltage inputs from multiple sensors. The CR10 is programmed to turn on the minimonitor at 15-minute intervals, allow the sensors to stabilize for one minute, collect data from each of the sensors, record the time, and turn off the minimonitor. An external 12-V battery provides power to the CR10; solar panels are used to maintain a full charge on the battery. The CR10 has sufficient internal memory to store about 30 days of minimonitor data collected at 15-minute intervals using six sensors. Data are lost, however, if the CR10 loses power.

To avoid potential problems associated with loss of power to the CR10 and to provide more operational flexibility, an SM192 storage module with nonvolatile memory (Campbell Scientific, Inc., 1987) is connected in series with the CR10. Data are automatically transferred from the CR10 to the SM192, which is not programmable and is only accessible through the CR10. The SM192 has an internal 3.5-V battery to protect the memory when the module is disconnected from the external power supply. Memory capacity is sufficient to store about 3 months of minimonitor data.

All instruments are housed in water-tight shelters attached to U.S. Coast Guard channel markers. The datalogger and storage module are further protected in a moisture-proof container within the shelter. Weights were added to the ends of the sensor cables to minimize current-induced vertical motion of the sensors. A reference mark with a known elevation above the seabed was established at each station to ensure that sensors are returned to the same point in the water column after servicing.

Field Procedures

Instruments are serviced at approximately 3-week intervals. During the colder months (October through April), servicing at 4- to 5-week intervals is sufficient, although the 3-week schedule is generally maintained. More frequent servicing may be necessary during the warmer months because of problems with biological growths fouling the sensors.

Field meters are calibrated in the laboratory prior to visiting the field installations. Field meters used are the Yellow Springs Instrument Company Model 33 S-C-T meter for specific conductance, the Yellow Springs Instrument Company Model 54 dissolved-oxygen meter, and the Hydrolab, Surveyor II. The Hydrolab is capable of measuring specific conductance, dissolved oxygen, and temperature using one data sonde. Both Yellow Springs Instrument meters are also capable of measuring temperature. Temperature thermistors are calibrated against an American Society for Testing Materials (ASTM) thermometer at two temperatures. All values are within 0.5 °C after calibration. Specific-conductance standards are used to develop a calibration curve for each conductance meter. Field meter specific-conductance values are within 5 percent of the standards after calibration. The dissolved-oxygen meter is calibrated in water-saturated air adjusted for barometric pressure. After calibration, meter values are within 0.1 mg/L of the saturation value at the measured temperature and barometric pressure. The dissolved-oxygen calibration is for freshwater. Complete calibration records are maintained.

Upon reaching a site, simultaneous field-meter and minimonitor readings are made at coincident locations. Vertical positions of sensors are referenced to the seabed and the permanent datum at the site. If the difference between top and bottom readings for any of the constituents exceeds 5 percent, then field-meter readings are obtained throughout the full depth of the water column. The sensors are then removed from the water and cleaned. Dissolved-oxygen sensors are typically replaced during each visit.

After cleaning, sensors are returned to their original location in the water column, and a new set of field-meter and minimonitor readings is made. If necessary, the minimonitor span control for each measurement channel is adjusted until field and monitor readings agree. The SM192 storage modules containing recorded data are removed and replaced with modules prepared to begin recording a new set of data.

All minimonitors are calibrated with a full set of sensors in the laboratory prior to field installation. Subsequently, if a sensor or sensor cable is replaced, a field calibration must be performed for that particular measurement channel. Standard solutions are used for specific conductance field calibrations. Dissolved-oxygen field calibrations are performed using a sodium sulfite solution to achieve an oxygen-depleted sample and a known dissolved-oxygen concentration solution to adjust the zero and midrange scale of the monitor, respectively.

Data Processing

The SM192 storage modules are returned to the office and data are transferred to the data base. Corrections for the difference between minimonitor and field-meter readings are applied to the data. Salinity is computed from specific-conductance records using the formulation given by Miller and others (1988). Dissolved oxygen, percent saturation, was computed using a barometric pressure of 760 millimeters and the water temperature, near surface, at each respective station. Finally, plots of the data are made.

Data are reviewed to ensure validity. Outliers are examined and deleted if values are physically unrealistic. Data are examined to ensure that water density at the surface is less than that at the bottom at a given time. Data are rejected if the field-meter and minimonitor readings at the time of servicing are not in reasonable agreement with each constituent. Simple daily statistics are then computed and time-series plots are prepared.

During the early phases of the investigation, various problems resulted in the loss of data. Problems included corrosion of connectors, loss of battery power, improperly calibrated instruments, human errors, and poor agreement between field-meter and minimonitor readings. As the study has progressed, the amount of lost record has substantially decreased. Corrosion problems have been essentially eliminated. Solar panels have been installed to maintain battery voltage at an acceptable level, and SM192 storage modules have been placed at all sites so that if batteries fail, the entire record between site visits will not be lost. Intensive training has resulted in significantly fewer human errors, and more frequent servicing has resulted in less sensor fouling and measurement drift.

WATER-QUALITY DATA

Water-quality data collected at continuously monitored sites in the Albemarle Sound estuarine system from October 1989 through September 1991 are presented in this section. Daily mean values of specific conductance; salinity; water temperature; dissolved-oxygen concentrations; and dissolved oxygen, percent saturation, for the period are given in tables and graphs. Five-day mean values of near-surface water temperature and near-surface, mid-depth, and near-bottom dissolved-oxygen concentrations for day (9:15 a.m.-9:00 p.m.) and night (9:15 p.m.-9:00 a.m.) conditions are presented in tables.

Below is a list of abbreviations used in tables beginning on page 17 of this report:

µS/cm and µS/cm at 25 °C	microsiemens per centimeter at 25 degrees Celsius
ppt	parts per thousand
°C	degrees Celsius
mg/L	milligram per liter
<	less than
---	no data

Daily Mean Values

Daily mean values (12:15 a.m. to 12 p.m. midnight) of specific conductance; salinity; water temperature; dissolved-oxygen concentrations; and dissolved oxygen, percent saturation, are presented for each of the 11 sites at the end of the report (tables 3, 5, 7, 9, 11, 13, 15, 17, 18, 20, and 22). Dissolved-oxygen data were not collected at site 8. Any significant changes that occur in these values at time intervals of minutes and hours are not represented by the daily mean values. Mean values do, however, give a good indication of general conditions at a site so that a reasonable summary of the large amount of collected data can be presented. The instantaneous maximum and minimum values recorded for the period are listed in each table, and days during which instantaneous dissolved-oxygen concentrations were less than 5.0 mg/L and 2.0 mg/L are also noted.

Each numbered table contains all of the daily mean values for one site. Within each table, the data, if available, are presented in the form of one constituent per water year per page in the following order:

- Specific conductance, near surface
- Salinity, near surface
- Specific conductance, near bottom
- Salinity, near bottom
- Water temperature, near surface
- Dissolved oxygen, near surface
- Dissolved oxygen, percent saturation, near surface
- Dissolved oxygen, mid-depth
- Dissolved oxygen, percent saturation, mid-depth
- Dissolved oxygen, near bottom
- Dissolved oxygen, percent saturation, near bottom

Each page within a given table contains the following information, some of which is repeated on continued pages:

- Site location information
- USGS downstream order number
- Constituent for which data are presented in the table
- Distance above the streambed at which the sensor is located
- Observed extreme recorded values
- Tabulated daily mean values

At the bottom of each page, a graph is presented to illustrate the annual variation of each of the constituents. Discontinued graph lines represent missing data.

Specific-conductance values are given as microsiemens per centimeter at 25 degrees Celsius; salinity concentrations are given as parts per thousand; water temperature is expressed as degrees Celsius; dissolved-oxygen concentrations are presented as milligrams per liter; and dissolved oxygen, percent saturation, is given as percent. No correction for the effects of salinity on dissolved oxygen has been made in the data presented in this report.

Mean Day-Night Values

Five-day mean values of near-surface water temperature and near-surface, mid-depth, and near-bottom dissolved-oxygen concentrations for day and night conditions are presented for sites 1-7 and 9-11 in tables at the end of the report (tables 4, 6, 8, 10, 12, 14, 16, 19, 21 and 23). Dissolved-oxygen data were not collected at site 8. The means were calculated using values from 9:15 a.m. through 9:00 p.m. as day-time values and 9:15 p.m. through 9:00 a.m. as night-time values. If the 5-day period had missing data, then the mean was calculated using the data that were available during that time period. These data are presented to illustrate the differences of water temperature and dissolved-oxygen concentrations for day and night conditions.

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Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

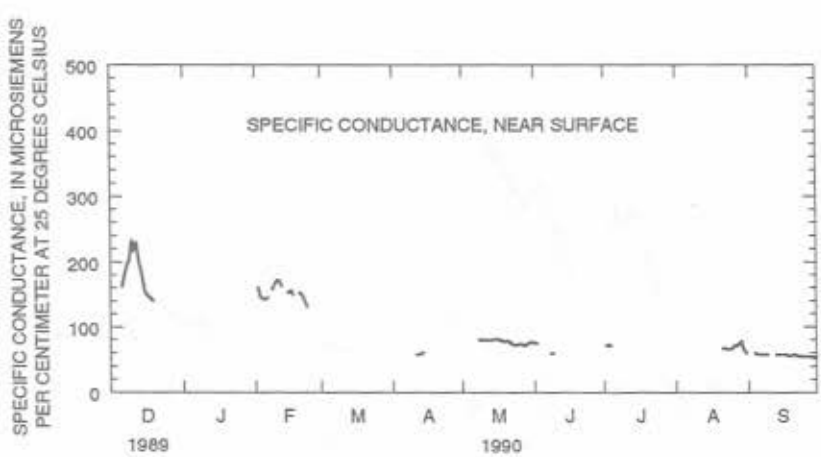
Specific Conductance, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 266 µS/cm December 10, 1989; minimum value recorded, 51 µS/cm September 25, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	75	---	---	---
2	---	---	160	---	---	---	74	71	---	---
3	---	---	148	---	---	---	---	72	---	---
4	---	---	143	---	---	---	---	71	---	59
5	---	---	143	---	---	---	---	---	---	57
6	162	---	145	---	---	---	---	---	---	58
7	181	---	---	---	---	---	---	---	---	58
8	197	---	158	---	---	79	59	---	---	57
9	202	---	165	---	---	80	59	---	---	58
10	233	---	172	---	---	79	---	---	---	---
11	219	---	172	---	58	79	---	---	---	57
12	230	---	163	---	58	79	---	---	---	---
13	200	---	---	---	59	79	---	---	---	58
14	189	---	---	---	60	80	---	---	---	57
15	166	---	153	---	---	80	---	---	---	58
16	152	---	156	---	---	81	---	---	---	57
17	148	---	150	---	---	79	---	---	---	57
18	144	---	---	---	---	78	---	---	---	56
19	141	---	---	---	---	77	---	---	---	56
20	---	---	152	---	---	78	67	---	---	57
21	---	---	148	---	---	77	---	---	67	57
22	---	---	142	---	---	74	---	---	67	55
23	---	---	131	---	---	72	---	---	66	56
24	---	---	---	---	---	72	---	---	66	55
25	---	---	---	---	---	73	---	---	67	54
26	---	---	---	---	---	73	68	---	71	55
27	---	---	---	---	---	72	---	---	71	54
28	---	---	---	---	---	71	67	---	74	54
29	---	---	---	---	---	74	---	---	77	53
30	---	---	---	---	---	76	---	---	66	54
31	---	---	---	---	---	76	---	---	60	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

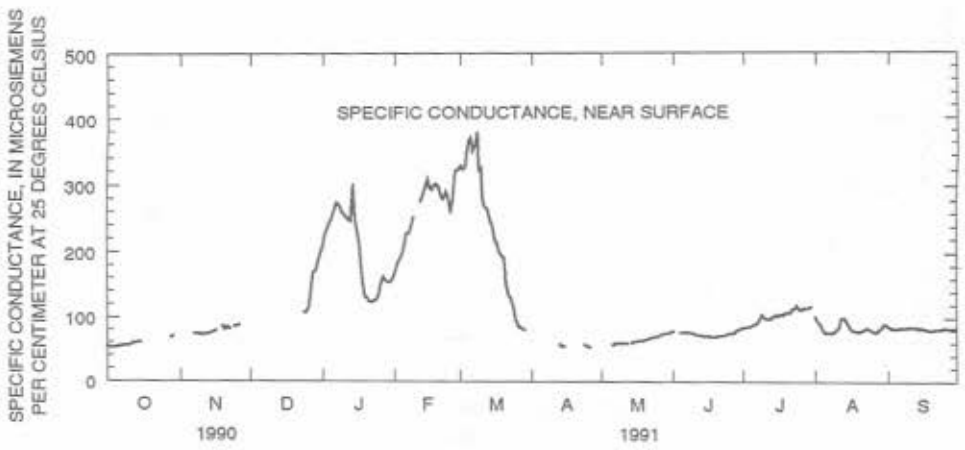
Specific Conductance, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 399 µS/cm March 8, 1991; minimum value recorded, 39 µS/cm April 8, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	---	---	209	168	328	---	---	79	85	102	86
2	53	76	---	226	182	323	---	---	---	85	93	84
3	53	---	---	237	188	325	---	---	---	86	90	83
4	53	---	---	244	196	363	---	---	77	86	82	83
5	53	---	---	252	211	368	---	---	77	88	76	83
6	54	---	---	265	228	350	---	58	78	90	77	84
7	55	74	---	274	229	356	---	59	77	92	77	84
8	56	74	---	271	236	377	44	59	77	97	76	84
9	56	74	---	262	253	320	---	59	76	104	78	85
10	56	72	---	257	---	327	---	59	75	100	81	85
11	57	74	---	253	---	275	---	59	73	98	86	85
12	59	73	---	249	277	268	---	59	73	99	99	85
13	59	74	---	247	287	265	57	---	72	99	101	85
14	60	76	---	302	296	248	55	61	71	103	95	83
15	60	77	---	250	309	238	56	62	71	104	89	84
16	---	79	---	227	299	219	---	62	72	103	82	83
17	---	---	---	210	295	212	---	63	70	106	80	82
18	---	---	---	164	302	202	52	64	70	105	80	81
19	---	86	---	133	303	195	---	63	70	108	78	81
20	---	81	---	129	297	191	---	65	71	108	79	81
21	---	85	---	124	283	152	---	66	72	108	80	82
22	---	82	---	123	281	134	---	68	72	113	83	82
23	---	---	---	125	292	130	---	69	72	114	84	82
24	---	86	108	127	282	118	58	70	74	119	82	83
25	---	86	107	135	260	101	55	70	76	112	80	84
26	---	88	115	151	281	88	54	72	75	112	78	83
27	---	---	147	162	321	84	---	74	77	115	78	83
28	68	---	170	158	322	82	---	75	80	114	81	83
29	70	---	172	155	---	81	---	76	82	115	84	83
30	---	---	184	155	---	---	---	76	83	117	90	84
31	---	---	199	160	---	---	---	78	---	---	89	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

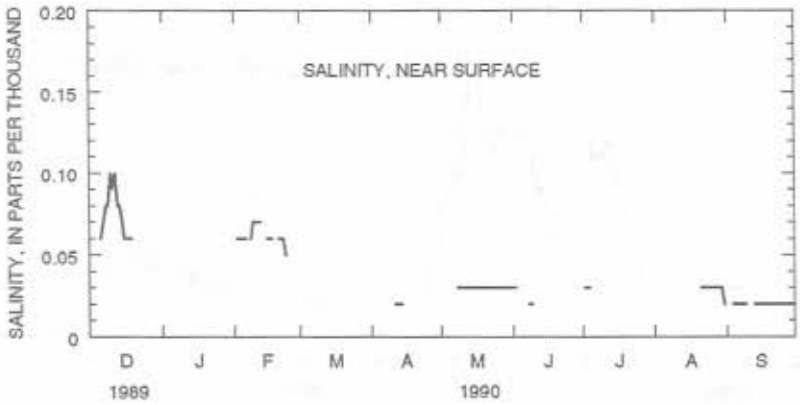
Salinity, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 0.11 ppt December 10, 11, 12, 1989; minimum value recorded, 0.02 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt)
DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	0.03	---	---	---
2	---	---	0.06	---	---	---	.03	0.03	---	---
3	---	---	.06	---	---	---	---	.03	---	---
4	---	---	.06	---	---	---	---	.03	---	0.02
5	---	---	.06	---	---	---	---	---	---	.02
6	0.06	---	.06	---	---	---	---	---	---	.02
7	.07	---	---	---	---	---	---	---	---	.02
8	.08	---	.06	---	---	0.03	.02	---	---	.02
9	.08	---	.07	---	---	.03	.02	---	---	.02
10	.10	---	.07	---	---	.03	---	---	---	---
11	.09	---	.07	---	0.02	.03	---	---	---	.02
12	.10	---	.07	---	.02	.03	---	---	---	---
13	.08	---	---	---	.02	.03	---	---	---	.02
14	.08	---	---	---	.02	.03	---	---	---	.02
15	.07	---	.06	---	---	.03	---	---	---	.02
16	.06	---	.06	---	---	.03	---	---	---	.02
17	.06	---	.06	---	---	.03	---	---	---	.02
18	.06	---	---	---	---	.03	---	---	---	.02
19	.06	---	---	---	---	.03	---	---	---	.02
20	---	---	.06	---	---	.03	.03	---	---	.02
21	---	---	.06	---	---	.03	---	---	0.03	.02
22	---	---	.06	---	---	.03	---	---	.03	.02
23	---	---	.05	---	---	.03	---	---	.03	.02
24	---	---	---	---	---	.03	---	---	.03	.02
25	---	---	---	---	---	.03	---	---	.03	.02
26	---	---	---	---	---	.03	.03	---	.03	.02
27	---	---	---	---	---	.03	---	---	.03	.02
28	---	---	---	---	---	.03	.03	---	.03	.02
29	---	---	---	---	---	.03	---	---	.03	.02
30	---	---	---	---	---	.03	---	---	.03	.02
31	---	---	---	---	---	.03	---	---	.02	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, October 1990-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

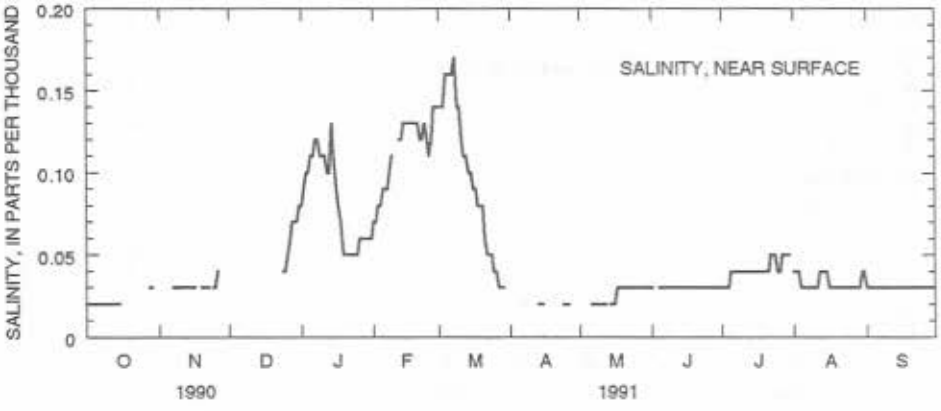
Salinity, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 0.18 ppt March 8, 1991; minimum value recorded, 0.02 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.02	---	---	0.08	0.07	0.14	---	---	0.03	0.03	0.04	0.03
2	.02	0.03	---	.09	.07	.14	---	---	---	.03	.04	.03
3	.02	---	---	.10	.08	.14	---	---	---	.03	.04	.03
4	.02	---	---	.10	.08	.16	---	---	.03	.03	.03	.03
5	.02	---	---	.11	.09	.16	---	---	.03	.04	.03	.03
6	.02	---	---	.11	.09	.16	---	0.02	.03	.04	.03	.03
7	.02	.03	---	.12	.09	.16	---	.02	.03	.04	.03	.03
8	.02	.03	---	.12	.10	.17	0.02	.02	.03	.04	.03	.03
9	.02	.03	---	.11	.11	.14	---	.02	.03	.04	.03	.03
10	.02	.03	---	.11	---	.14	---	.02	.03	.04	.03	.03
11	.02	.03	---	.11	---	.12	---	.02	.03	.04	.03	.03
12	.02	.03	---	.10	.12	.11	---	.02	.03	.04	.04	.03
13	.02	.03	---	.10	.12	.11	.02	---	.03	.04	.04	.03
14	.02	.03	---	.13	.13	.10	.02	.02	.03	.04	.04	.03
15	.02	.03	---	.11	.13	.10	.02	.02	.03	.04	.04	.03
16	---	.03	---	.09	.13	.09	---	.02	.03	.04	.03	.03
17	---	---	---	.08	.13	.09	---	.03	.03	.04	.03	.03
18	---	---	---	.07	.13	.08	.02	.03	.03	.04	.03	.03
19	---	.03	---	.05	.13	.08	---	.03	.03	.04	.03	.03
20	---	.03	---	.05	.13	.08	---	.03	.03	.04	.03	.03
21	---	.03	---	.05	.12	.06	---	.03	.03	.04	.03	.03
22	---	.03	---	.05	.12	.05	---	.03	.03	.05	.03	.03
23	---	---	---	.05	.13	.05	---	.03	.03	.05	.03	.03
24	---	.03	0.04	.05	.12	.05	.02	.03	.03	.05	.03	.03
25	---	.03	.04	.05	.11	.04	.02	.03	.03	.04	.03	.03
26	---	.04	.05	.06	.12	.04	.02	.03	.03	.04	.03	.03
27	---	---	.06	.06	.14	.03	---	.03	.03	.05	.03	.03
28	.03	---	.07	.06	.14	.03	---	.03	.03	.05	.03	.03
29	.03	---	.07	.06	---	.03	---	.03	.03	.05	.03	.03
30	---	---	.07	.06	---	---	---	.03	.03	.05	.04	.03
31	---	---	.08	.06	---	---	---	.03	---	---	.04	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

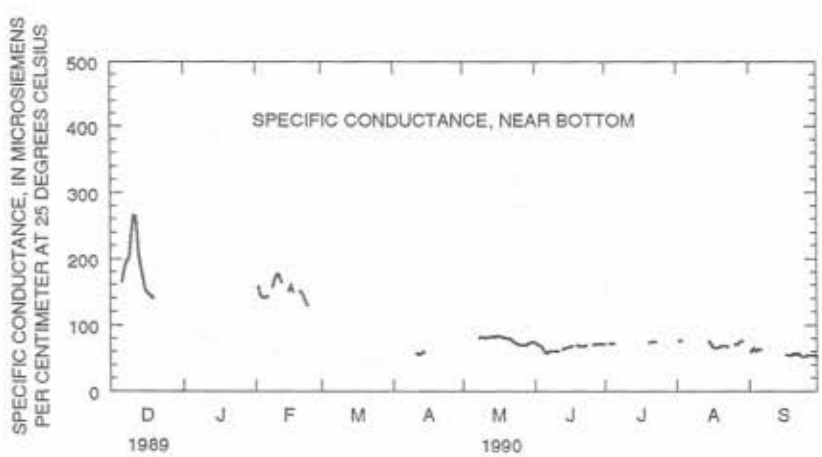
Specific Conductance, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 278 µS/cm December 11, 12, 1989; minimum value recorded, 51 µS/cm April 12, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	73	71	---	---
2	---	---	158	---	---	---	71	---	76	61
3	---	---	145	---	---	---	69	72	77	64
4	---	---	141	---	---	---	67	72	---	61
5	---	---	141	---	---	---	61	72	---	63
6	165	---	143	---	---	---	58	---	---	62
7	186	---	---	---	---	---	60	---	---	---
8	198	---	158	---	---	81	60	---	---	---
9	201	---	167	---	---	82	61	---	---	---
10	240	---	176	---	---	81	61	---	---	---
11	264	---	175	---	57	81	60	---	---	59
12	262	---	164	---	56	82	---	---	---	---
13	206	---	---	---	57	82	63	---	---	63
14	188	---	---	---	59	83	65	---	---	---
15	167	---	152	---	---	82	65	---	75	---
16	153	---	159	---	---	84	67	---	68	---
17	147	---	150	---	---	83	68	---	65	56
18	144	---	---	---	---	81	---	---	65	54
19	141	---	---	---	---	81	69	---	66	55
20	---	---	151	---	---	80	68	74	68	57
21	---	---	146	---	---	80	68	74	68	56
22	---	---	138	---	---	77	68	75	68	57
23	---	---	130	---	---	74	69	75	67	55
24	---	---	---	---	---	72	---	---	---	53
25	---	---	---	---	---	70	---	---	---	53
26	---	---	---	---	---	70	70	78	71	54
27	---	---	---	---	---	70	71	---	71	54
28	---	---	---	---	---	69	71	---	75	54
29	---	---	---	---	---	72	72	---	76	54
30	---	---	---	---	---	74	71	---	---	53
31	---	---	---	---	---	75	---	---	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

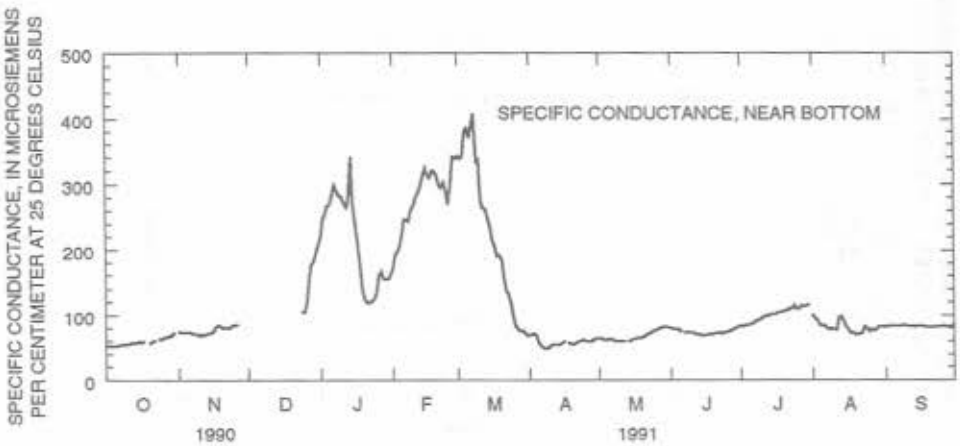
Specific Conductance, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 433 µS/cm March 8, 1991; minimum value recorded, 45 µS/cm April 7, 8, 9, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	53	74	---	219	170	342	69	64	80	84	100	82
2	53	73	---	248	193	338	70	64	79	83	95	84
3	52	73	---	256	197	341	71	62	79	85	92	84
4	53	73	---	267	206	381	67	62	79	85	85	84
5	53	73	---	270	225	385	58	63	75	86	84	84
6	53	73	---	284	248	370	52	63	---	88	85	84
7	54	71	---	299	247	387	49	62	73	90	79	84
8	55	71	---	290	245	408	48	61	73	93	78	85
9	55	70	---	282	262	333	49	60	73	93	80	85
10	56	68	---	282	269	336	53	61	73	96	78	84
11	56	70	---	272	279	276	55	60	72	98	77	84
12	57	69	---	265	288	264	55	60	70	100	96	83
13	58	70	---	275	298	263	54	---	70	99	98	84
14	58	72	---	341	311	249	55	61	68	102	91	83
15	59	72	---	272	323	234	57	62	69	102	83	84
16	58	75	---	238	314	215	59	63	69	102	78	84
17	59	81	---	215	309	205	---	64	70	104	72	83
18	---	85	---	175	319	191	57	65	71	105	73	82
19	---	83	---	136	319	192	55	65	70	106	70	82
20	58	80	---	122	312	184	56	66	72	107	71	82
21	60	81	---	119	299	157	57	68	72	107	71	82
22	61	80	---	119	295	137	59	71	73	110	73	82
23	---	80	---	121	303	132	60	72	71	111	83	83
24	63	85	106	124	289	118	62	75	73	115	80	83
25	63	84	104	135	271	101	61	76	74	109	75	84
26	66	86	118	159	300	84	59	78	75	110	79	83
27	66	---	157	166	341	78	59	80	77	115	76	83
28	67	---	177	156	338	75	60	81	79	113	78	83
29	68	---	183	154	---	76	63	83	81	114	83	84
30	72	---	195	155	---	72	64	82	82	116	83	85
31	---	---	208	162	---	68	---	81	---	---	83	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

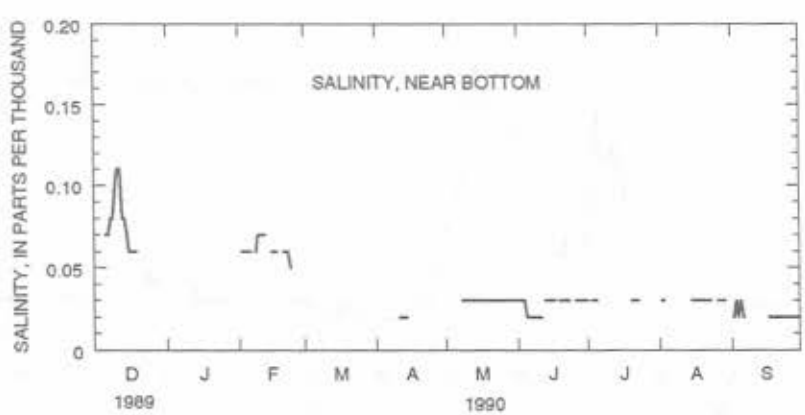
Salinity, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 0.12 ppt December 11, 12, 1989; minimum value recorded, 0.02 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	0.03	0.03	---	---
2	---	---	0.06	---	---	---	.03	---	0.03	0.02
3	---	---	.06	---	---	---	.03	.03	.03	.03
4	---	---	.06	---	---	---	.03	.03	---	.02
5	---	---	.06	---	---	---	.02	.03	---	.03
6	0.07	---	.06	---	---	---	.02	---	---	.02
7	.07	---	---	---	---	---	.02	---	---	---
8	.08	---	.06	---	---	0.03	.02	---	---	---
9	.08	---	.07	---	---	.03	.02	---	---	---
10	.10	---	.07	---	---	.03	.02	---	---	---
11	.11	---	.07	---	0.02	.03	.02	---	---	.02
12	.11	---	.07	---	.02	.03	---	---	---	---
13	.08	---	---	---	.02	.03	.03	---	---	.03
14	.08	---	---	---	.02	.03	.03	---	---	---
15	.07	---	.06	---	---	.03	.03	---	.03	---
16	.06	---	.06	---	---	.03	.03	---	.03	---
17	.06	---	.06	---	---	.03	.03	---	.03	.02
18	.06	---	---	---	---	.03	---	---	.03	.02
19	.06	---	---	---	---	.03	.03	---	.03	.02
20	---	---	.06	---	---	.03	.03	.03	.03	.02
21	---	---	.06	---	---	.03	.03	.03	.03	.02
22	---	---	.06	---	---	.03	.03	.03	.03	.02
23	---	---	.05	---	---	.03	.03	.03	.03	.02
24	---	---	---	---	---	.03	---	---	---	.02
25	---	---	---	---	---	.03	---	---	---	.02
26	---	---	---	---	---	.03	.03	.03	.03	.02
27	---	---	---	---	---	.03	.03	---	.03	.02
28	---	---	---	---	---	.03	.03	---	.03	.02
29	---	---	---	---	---	.03	.03	---	.03	.02
30	---	---	---	---	---	.03	.03	---	---	.02
31	---	---	---	---	---	.03	---	---	---	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

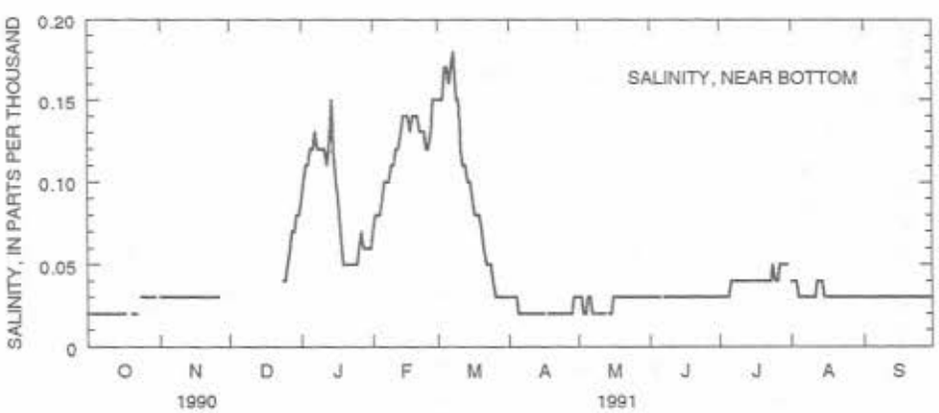
Salinity, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 0.20 ppt March 8, 1991; minimum value recorded, 0.02 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.02	0.03	---	0.09	0.07	0.15	0.03	0.03	0.03	0.03	0.04	0.03
2	.02	.03	---	.10	.08	.15	.03	.03	.03	.03	.04	.03
3	.02	.03	---	.11	.08	.15	.03	.02	.03	.03	.04	.03
4	.02	.03	---	.11	.08	.17	.03	.02	.03	.03	.03	.03
5	.02	.03	---	.12	.09	.17	.02	.03	.03	.03	.03	.03
6	.02	.03	---	.12	.10	.16	.02	.03	---	.04	.03	.03
7	.02	.03	---	.13	.10	.17	.02	.02	.03	.04	.03	.03
8	.02	.03	---	.12	.10	.18	.02	.02	.03	.04	.03	.03
9	.02	.03	---	.12	.11	.15	.02	.02	.03	.04	.03	.03
10	.02	.03	---	.12	.11	.15	.02	.02	.03	.04	.03	.03
11	.02	.03	---	.12	.12	.12	.02	.02	.03	.04	.03	.03
12	.02	.03	---	.11	.12	.11	.02	.02	.03	.04	.04	.03
13	.02	.03	---	.12	.13	.11	.02	---	.03	.04	.04	.03
14	.02	.03	---	.15	.14	.10	.02	.02	.03	.04	.04	.03
15	.02	.03	---	.12	.14	.10	.02	.02	.03	.04	.03	.03
16	.02	.03	---	.10	.14	.09	.02	.03	.03	.04	.03	.03
17	.02	.03	---	.09	.13	.08	---	.03	.03	.04	.03	.03
18	---	.03	---	.07	.14	.08	.02	.03	.03	.04	.03	.03
19	---	.03	---	.05	.14	.08	.02	.03	.03	.04	.03	.03
20	.02	.03	---	.05	.14	.07	.02	.03	.03	.04	.03	.03
21	.02	.03	---	.05	.13	.06	.02	.03	.03	.04	.03	.03
22	.02	.03	---	.05	.13	.05	.02	.03	.03	.04	.03	.03
23	---	.03	---	.05	.13	.05	.02	.03	.03	.04	.03	.03
24	.03	.03	0.04	.05	.12	.05	.02	.03	.03	.05	.03	.03
25	.03	.03	.04	.05	.12	.04	.02	.03	.03	.04	.03	.03
26	.03	.03	.05	.06	.13	.03	.02	.03	.03	.04	.03	.03
27	.03	---	.06	.07	.15	.03	.02	.03	.03	.05	.03	.03
28	.03	---	.07	.06	.15	.03	.02	.03	.03	.05	.03	.03
29	.03	---	.07	.06	---	.03	.03	.03	.03	.05	.03	.03
30	.03	---	.08	.06	---	.03	.03	.03	.03	.05	.03	.03
31	---	---	.08	.06	---	.03	---	.03	---	---	.03	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

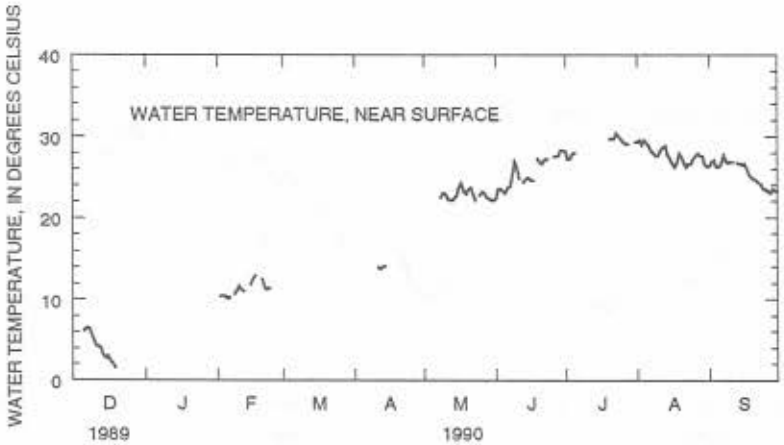
Water Temperature, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 31.4 °C July 23, 1990; minimum value recorded, 1.1 °C December 19, 1989.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	22.3	28.1	29.3	26.4
2	---	---	10.4	---	---	---	23.5	27.2	29.5	26.9
3	---	---	10.5	---	---	---	23.5	27.2	29.0	27.1
4	---	---	10.4	---	---	---	23.2	27.8	29.5	26.2
5	---	---	10.1	---	---	---	23.0	28.0	29.2	26.2
6	6.2	---	10.2	---	---	---	23.7	---	28.8	26.6
7	6.5	---	---	---	---	---	23.8	---	28.2	27.7
8	6.4	---	10.7	---	---	22.5	24.9	---	27.9	27.0
9	5.7	---	11.0	---	---	23.0	26.9	---	27.6	26.7
10	5.0	---	11.7	---	---	22.9	26.4	---	27.7	26.9
11	4.3	---	11.3	---	13.9	22.2	24.8	---	28.3	26.9
12	4.2	---	11.0	---	13.8	22.1	---	---	28.7	---
13	3.9	---	---	---	14.0	22.1	24.4	---	28.8	26.7
14	3.1	---	---	---	14.1	22.3	24.8	---	27.8	26.7
15	2.8	---	11.9	---	---	22.7	24.9	---	27.3	26.5
16	3.0	---	12.6	---	---	23.7	24.5	---	26.6	26.6
17	2.4	---	12.9	---	---	24.2	24.6	---	26.2	26.0
18	2.0	---	---	---	---	23.2	---	---	26.7	25.3
19	1.6	---	---	---	---	22.9	27.2	---	27.9	24.9
20	---	---	12.5	---	---	23.4	26.7	29.7	27.5	24.7
21	---	---	11.5	---	---	23.7	26.6	29.8	26.8	24.6
22	---	---	11.3	---	---	23.0	27.1	29.7	26.2	24.2
23	---	---	11.4	---	---	22.1	27.2	30.4	26.6	24.1
24	---	---	---	---	---	---	---	30.0	26.6	23.5
25	---	---	---	---	---	22.7	---	29.6	27.1	23.4
26	---	---	---	---	---	23.1	27.5	29.3	27.7	23.2
27	---	---	---	---	---	22.9	27.5	29.1	27.9	23.0
28	---	---	---	---	---	22.4	27.7	29.1	27.6	23.5
29	---	---	---	---	---	22.2	28.3	---	27.6	23.2
30	---	---	---	---	---	22.1	28.3	---	26.6	23.3
31	---	---	---	---	---	22.1	---	29.3	26.3	---



DAILY MEAN WATER TEMPERATURE, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

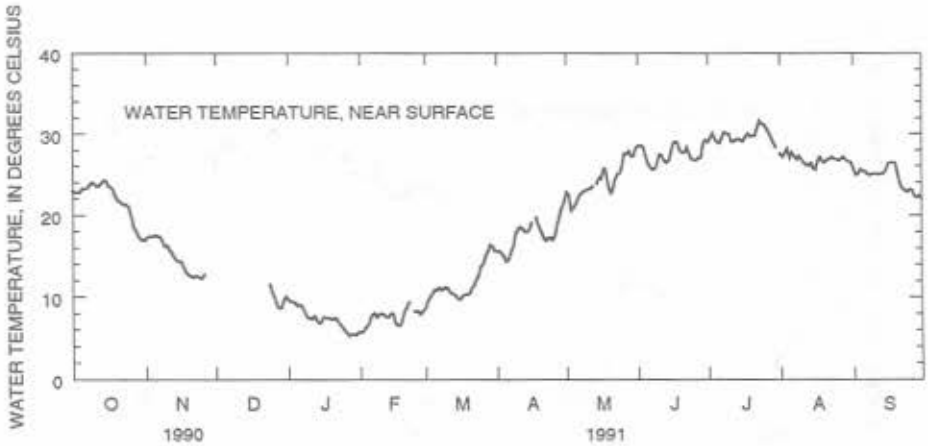
Water Temperature, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 32.6 °C July 22, 23, 1991; minimum value recorded, 4.8 °C January 27, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22.9	17.1	---	9.5	5.6	8.7	15.6	22.7	28.5	29.0	27.5	25.8
2	22.7	17.4	---	9.4	5.8	9.4	15.6	22.2	28.5	29.6	27.1	24.8
3	22.7	17.4	---	9.4	6.2	9.9	15.3	20.6	28.4	30.0	27.7	24.9
4	22.7	17.4	---	9.2	6.5	10.4	14.9	20.9	27.6	29.4	28.1	25.5
5	23.2	17.5	---	8.9	7.2	10.9	14.3	21.3	26.3	29.0	27.0	25.4
6	23.3	17.4	---	9.0	7.8	10.8	14.6	21.9	25.9	28.8	27.7	25.3
7	23.3	17.4	---	8.8	8.0	11.1	15.5	22.4	25.5	29.6	27.2	25.0
8	23.7	16.8	---	8.1	7.5	10.9	16.4	22.8	25.6	30.2	26.8	24.8
9	24.0	16.2	---	7.4	7.8	11.0	17.7	23.0	26.0	30.0	27.3	25.0
10	23.8	16.3	---	7.4	8.0	11.2	18.3	23.1	27.4	29.9	26.8	25.0
11	23.5	15.7	---	7.3	7.8	10.9	18.6	23.1	27.4	29.1	26.3	25.0
12	23.6	15.4	---	7.7	7.5	10.5	18.3	23.4	26.7	29.1	26.1	24.9
13	23.9	14.9	---	7.2	7.5	10.3	17.9	---	26.4	29.3	26.0	25.0
14	24.2	14.4	---	6.8	8.0	10.1	17.9	23.8	26.6	29.4	26.3	25.1
15	24.1	14.3	---	6.9	8.0	9.7	18.3	24.5	27.5	29.2	25.7	25.5
16	23.6	14.3	---	7.5	6.9	9.6	19.1	24.4	28.8	29.1	25.5	26.2
17	23.4	13.7	---	7.4	6.5	10.1	---	25.6	29.1	29.6	26.6	26.4
18	23.1	13.1	---	7.4	6.6	10.2	19.7	25.6	28.8	30.0	27.1	26.4
19	22.4	12.7	---	7.3	7.1	10.2	18.7	23.7	27.9	29.7	26.5	26.3
20	21.8	12.5	---	7.3	8.3	10.4	18.0	22.6	27.7	29.8	26.4	24.8
21	21.6	12.4	---	7.4	8.8	11.0	17.2	23.0	27.7	29.8	26.8	23.8
22	21.3	12.5	---	7.1	9.3	11.4	16.9	24.4	28.3	30.6	26.9	23.2
23	21.3	12.5	---	6.7	---	12.0	17.2	25.0	27.5	31.6	27.1	23.0
24	21.2	12.3	11.5	6.3	8.2	12.6	17.3	25.1	26.9	31.3	26.9	22.8
25	20.8	12.2	10.6	5.9	8.3	13.6	17.0	25.9	26.7	31.1	26.8	23.1
26	19.5	12.7	9.9	5.6	8.1	14.0	17.5	27.5	26.7	30.6	26.7	23.0
27	18.5	---	9.0	5.2	7.9	15.0	18.8	27.5	27.1	30.2	26.9	22.2
28	17.9	---	8.6	5.4	8.3	15.7	19.9	27.8	27.0	29.6	27.1	22.1
29	17.4	---	8.7	5.4	---	16.4	20.8	27.2	28.9	29.0	26.7	22.3
30	17.0	---	9.5	5.3	---	16.1	21.5	27.3	29.2	28.4	26.5	21.9
31	16.9	---	10.0	5.7	---	15.6	---	28.1	---	---	26.5	---



DAILY MEAN WATER TEMPERATURE, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

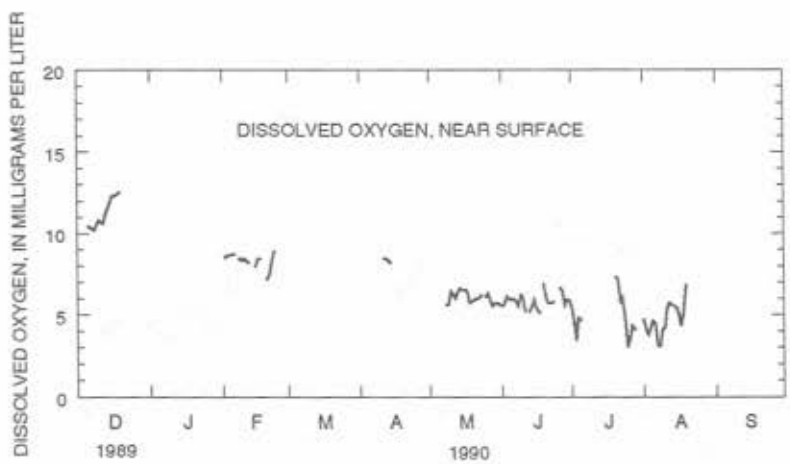
Dissolved Oxygen, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 13.1 mg/L December 19, 1989; minimum value recorded, <1.0 mg/L July 25, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	5.5b	5.4b	4.7b	---
2	---	---	8.5	---	---	---	5.6b	4.6b	4.0a	---
3	---	---	8.6	---	---	---	6.1	3.4a	3.8b	---
4	---	---	8.6	---	---	---	6.0	4.8b	4.2b	---
5	---	---	8.7	---	---	---	5.9	4.7b	4.6b	---
6	10.4	---	8.7	---	---	---	6.0	---	4.5b	---
7	10.3	---	---	---	---	---	5.8	---	3.1a	---
8	10.2	---	8.4	---	---	5.6	5.5b	---	3.1a	---
9	10.4	---	8.3	---	---	5.6b	6.2	---	4.1b	---
10	10.8	---	8.4	---	---	6.4	6.1	---	4.2b	---
11	10.7	---	8.3	---	8.4	6.2	5.2b	---	5.3b	---
12	10.6	---	8.2	---	8.4	6.0	---	---	5.7b	---
13	11.2	---	---	---	8.3	6.4	5.2b	---	5.6b	---
14	11.5	---	---	---	8.2	6.6	5.5b	---	5.5b	---
15	12.0	---	8.0	---	---	6.5	5.9b	---	5.4b	---
16	12.3	---	8.4	---	---	6.5	5.3b	---	5.0b	---
17	12.3	---	8.4	---	---	6.5	5.1b	---	4.3a	---
18	12.4	---	---	---	---	5.7	---	---	5.1b	---
19	12.5	---	---	---	---	5.8	6.9	---	6.8b	---
20	---	---	7.2	---	---	5.9	6.0b	7.3a	---	---
21	---	---	7.5	---	---	6.0	5.7b	7.2b	---	---
22	---	---	8.2	---	---	6.0	5.7b	5.7b	---	---
23	---	---	8.9	---	---	6.2	5.8b	6.0a	---	---
24	---	---	---	---	---	---	---	4.8a	---	---
25	---	---	---	---	---	6.1	---	3.0a	---	---
26	---	---	---	---	---	6.3	6.6b	3.4a	---	---
27	---	---	---	---	---	5.8	6.5b	4.3b	---	---
28	---	---	---	---	---	5.5	5.6b	4.1a	---	---
29	---	---	---	---	---	5.7	5.9b	---	---	---
30	---	---	---	---	---	5.7	5.9	---	---	---
31	---	---	---	---	---	5.6	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

Dissolved Oxygen, Near Surface

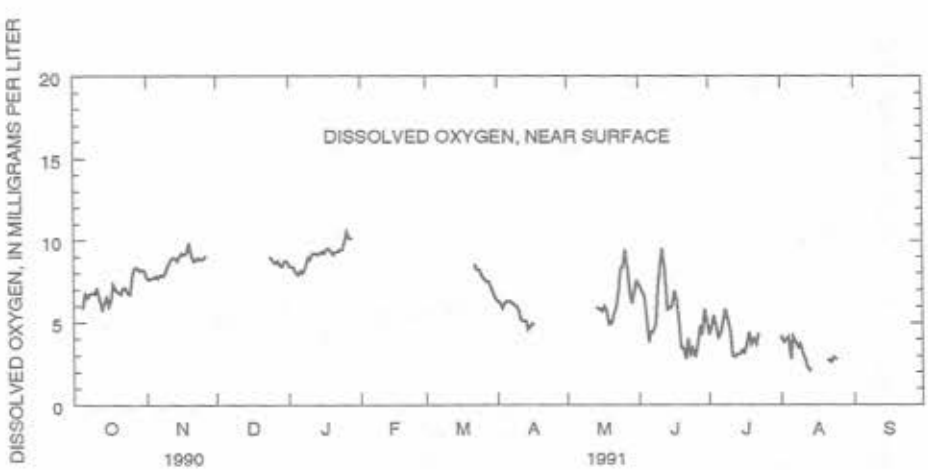
[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.3 mg/L June 10, 1991; minimum value recorded, <1.0 mg/L June 20, 21, 23, 24, 25, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	7.7	---	8.4	---	---	6.3	---	7.3	4.3b	4.1b	---
2	---	7.6	---	8.4	---	---	6.2	---	6.9b	4.8b	3.8b	---
3	---	7.7	---	8.3	---	---	5.9	---	6.6b	5.4b	4.0b	---
4	---	7.7	---	8.0	---	---	6.2	---	5.6b	4.7b	4.1b	---
5	5.9	7.8	---	7.9	---	---	6.3	---	3.8a	4.1b	2.8a	---
6	6.7	7.7	---	8.1	---	---	6.3	---	4.4b	4.4b	4.1b	---
7	6.5	7.9	---	8.0	---	---	6.2	---	4.5b	5.2b	3.8b	---
8	6.7	7.8	---	8.3	---	---	6.1	---	4.9b	5.8b	3.5b	---
9	6.8	8.0	---	8.9	---	---	6.0	---	7.1	5.2b	3.7b	---
10	6.7b	8.4	---	8.8	---	---	5.7b	---	8.6b	4.4b	3.2b	---
11	7.1	8.7	---	9.2	---	---	5.2b	---	9.5	3.0b	2.7a	---
12	6.4	8.9	---	9.2	---	---	5.1b	---	8.1	2.9b	2.3a	---
13	5.8b	8.9	---	9.1	---	---	5.1b	---	5.8b	3.1b	2.1a	---
14	6.1b	8.7	---	9.2	---	---	4.6b	5.9b	5.9b	3.1a	---	---
15	6.6b	9.0	---	9.3	---	---	4.8b	5.8b	6.0b	3.3a	---	---
16	6.0b	9.2	---	9.2	---	---	4.9b	5.7b	6.9b	3.2a	---	---
17	6.4b	9.1	---	9.4	---	---	---	6.0b	6.5b	3.6a	---	---
18	7.3	9.2	---	9.5	---	---	---	5.7b	5.1b	4.4b	---	---
19	7.0	9.8	---	9.3	---	---	---	4.9b	3.5a	3.7b	---	---
20	6.8	9.2	---	9.1	---	---	---	5.0b	3.4a	4.0b	---	---
21	6.7	8.7	---	9.3	---	---	---	5.4b	2.8a	3.7b	2.7b	---
22	7.1	8.8	---	9.3	---	8.5	---	5.9b	4.0a	4.3b	2.6a	---
23	7.1	8.9	---	9.4	---	8.2	---	6.9	3.1a	---	2.9a	---
24	6.8	8.8	8.9	9.4	---	8.2	---	8.2	3.4a	---	2.8a	---
25	6.7	8.8	8.7	10.0	---	7.9	---	8.5	2.9a	---	---	---
26	7.9	9.0	8.6	10.5	---	7.7	---	9.4	3.7a	---	---	---
27	8.3	---	8.7	10.1	---	7.5	---	8.2	4.8a	---	---	---
28	8.3	---	8.5	10.1	---	7.5	---	6.7b	4.3a	---	---	---
29	8.1	---	8.4	---	---	7.2	---	6.2b	5.8b	---	---	---
30	8.2	---	8.7	---	---	6.8	---	7.0	5.2b	---	---	---
31	8.1	---	8.7	---	---	6.5	---	7.5	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

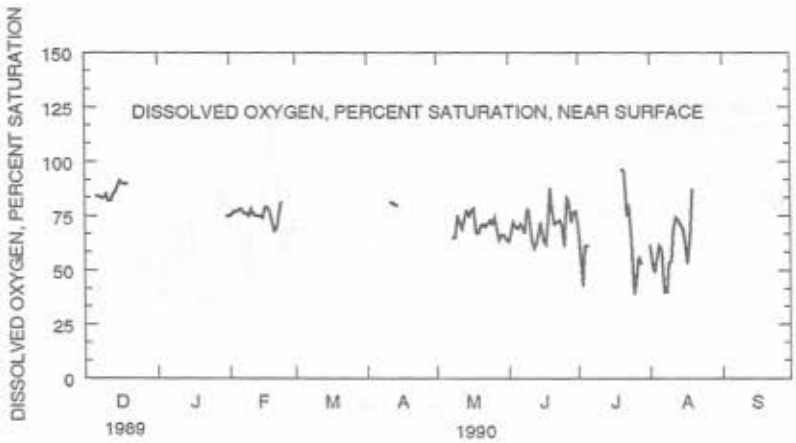
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 141 percent July 20, 1990; minimum value recorded, <10 percent July 25, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	63	69	61	---
2	---	---	76	---	---	---	66	58	52	---
3	---	---	77	---	---	---	72	43	49	---
4	---	---	77	---	---	---	70	61	56	---
5	---	---	78	---	---	---	69	61	61	---
6	84	---	78	---	---	---	71	---	59	---
7	84	---	---	---	---	---	69	---	40	---
8	83	---	76	---	---	65	67	---	40	---
9	83	---	75	---	---	65	78	---	53	---
10	85	---	78	---	---	75	76	---	54	---
11	82	---	76	---	81	71	64	---	68	---
12	82	---	75	---	81	69	---	---	74	---
13	85	---	---	---	80	74	62	---	73	---
14	86	---	---	---	80	77	67	---	71	---
15	89	---	74	---	---	75	72	---	69	---
16	91	---	79	---	---	77	64	---	62	---
17	90	---	79	---	---	78	62	---	53	---
18	90	---	---	---	---	67	---	---	64	---
19	90	---	---	---	---	67	88	---	87	---
20	---	---	68	---	---	70	75	96	---	---
21	---	---	69	---	---	71	71	95	---	---
22	---	---	75	---	---	70	72	75	---	---
23	---	---	81	---	---	71	73	80	---	---
24	---	---	---	---	---	---	---	63	---	---
25	---	---	---	---	---	71	---	39	---	---
26	---	---	---	---	---	74	83	44	---	---
27	---	---	---	---	---	68	82	56	---	---
28	---	---	---	---	---	64	72	53	---	---
29	---	---	---	---	---	66	76	---	---	---
30	---	---	---	---	---	66	77	---	---	---
31	---	75	---	---	---	64	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

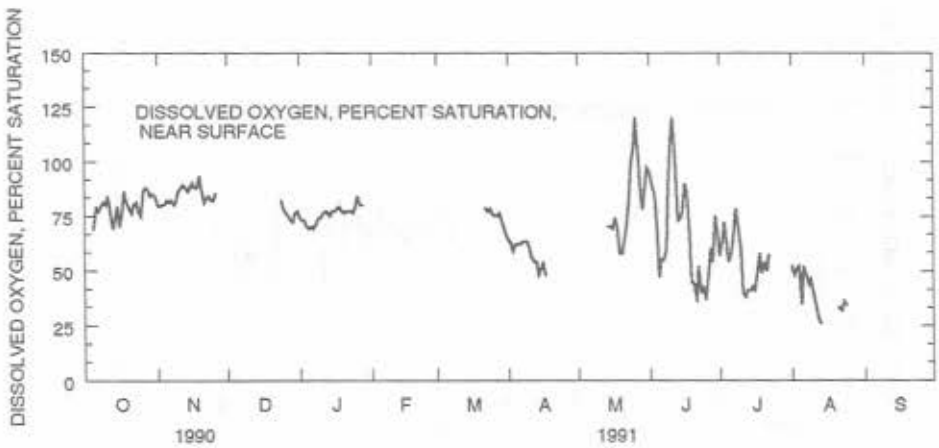
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 160 percent June 10, 1991; minimum value recorded, <10 percent June 21, 23, 24, 25, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	80	---	74	---	---	64	---	95	57	52	---
2	---	79	---	73	---	---	62	---	89	63	48	---
3	---	80	---	73	---	---	59	---	85	72	51	---
4	---	80	---	70	---	---	62	---	71	61	52	---
5	69	82	---	69	---	---	62	---	47	54	35	---
6	78	81	---	70	---	---	62	---	55	58	52	---
7	77	82	---	69	---	---	63	---	55	68	48	---
8	79	80	---	71	---	---	63	---	60	78	44	---
9	81	81	---	74	---	---	63	---	89	69	46	---
10	80	86	---	74	---	---	60	---	110	59	40	---
11	84	88	---	76	---	---	56	---	120	40	34	---
12	76	89	---	77	---	---	54	---	102	38	29	---
13	69	88	---	76	---	---	54	---	73	41	26	---
14	73	86	---	75	---	---	48	70	74	41	---	---
15	79	88	---	77	---	---	51	70	77	43	---	---
16	70	90	---	77	---	---	53	69	90	41	---	---
17	76	88	---	78	---	---	48	74	86	48	---	---
18	86	88	---	79	---	---	---	70	66	58	---	---
19	81	93	---	77	---	---	---	58	45	49	---	---
20	78	87	---	76	---	---	---	58	44	53	---	---
21	76	81	---	77	---	---	---	63	36	50	33	---
22	80	83	---	77	---	78	---	71	52	57	32	---
23	81	84	---	77	---	77	---	83	40	---	36	---
24	77	82	82	76	---	78	---	99	43	---	35	---
25	75	82	78	80	---	76	---	106	37	---	---	---
26	86	85	76	84	---	75	---	120	47	---	---	---
27	88	---	75	80	---	75	---	105	60	---	---	---
28	87	---	73	80	---	76	---	85	54	---	---	---
29	84	---	72	---	---	73	---	78	75	---	---	---
30	85	---	76	---	---	69	---	89	68	---	---	---
31	84	---	77	---	---	66	---	97	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

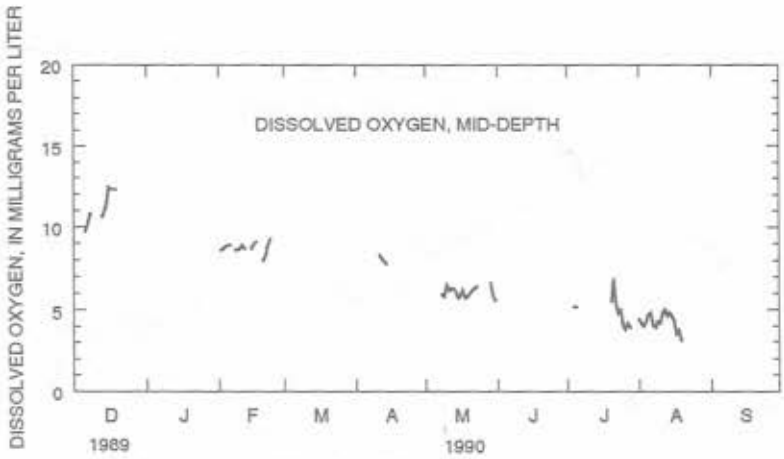
Dissolved Oxygen, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 14.5 mg/L December 16, 1989; minimum value recorded, 1.5 mg/L August 2, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	---	4.4a	---
2	---	---	8.6	---	---	---	---	---	4.1a	---
3	---	---	8.7	---	---	---	---	---	4.0b	---
4	---	---	8.8	---	---	---	---	5.2b	4.3b	---
5	---	---	8.9	---	---	---	---	5.2b	4.7b	---
6	9.7	---	8.9	---	---	---	---	---	4.8b	---
7	10.2	---	---	---	---	---	---	---	4.0b	---
8	10.8	---	8.6	---	---	5.9	---	---	3.9b	---
9	---	---	8.6	---	---	5.8b	---	---	4.3b	---
10	---	---	8.7	---	---	6.5	---	---	4.2b	---
11	---	---	8.9	---	8.3	6.2	---	---	4.7b	---
12	---	---	8.7	---	8.1	6.3	---	---	5.0b	---
13	10.6	---	---	---	7.9	6.3	---	---	4.6b	---
14	10.9	---	---	---	7.8	6.1	---	---	4.8b	---
15	11.4	---	8.7	---	---	5.7	---	---	4.6b	---
16	12.4	---	9.0	---	---	5.8b	---	---	4.3b	---
17	12.3	---	9.1	---	---	6.2	---	---	3.5b	---
18	12.3	---	---	---	---	5.7	---	---	3.7b	---
19	12.3	---	---	---	---	5.8	---	---	3.1a	---
20	---	---	8.0	---	---	6.0	---	5.5b	---	---
21	---	---	8.3	---	---	6.2	---	6.9b	---	---
22	---	---	8.8	---	---	6.3	---	5.3b	---	---
23	---	---	9.3	---	---	6.4	---	4.8b	---	---
24	---	---	---	---	---	---	---	5.0b	---	---
25	---	---	---	---	---	---	---	4.0a	---	---
26	---	---	---	---	---	---	---	3.8a	---	---
27	---	---	---	---	---	---	---	4.2b	---	---
28	---	---	---	---	---	---	---	3.9a	---	---
29	---	---	---	---	---	6.6	---	---	---	---
30	---	---	---	---	---	5.8	---	---	---	---
31	---	---	---	---	---	5.6b	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

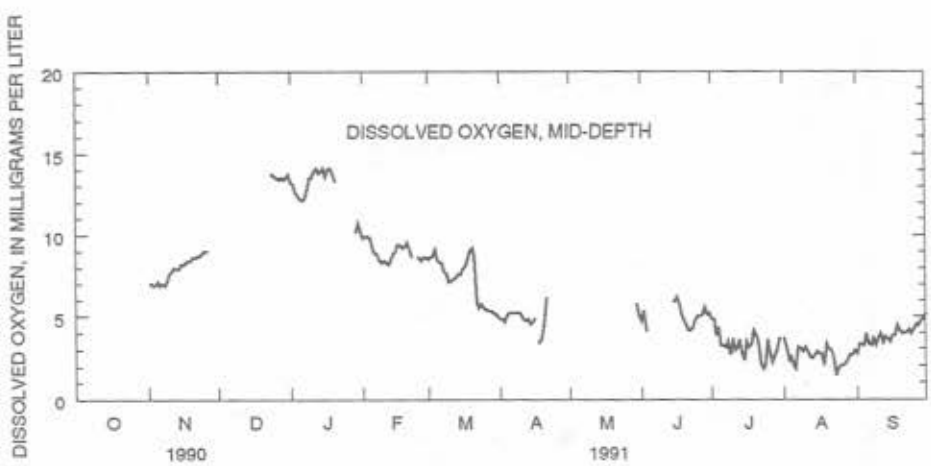
Dissolved Oxygen, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 14.6 mg/L January 11, 12, 14, 15, 1991; minimum value recorded, <1.0 July 8, 9, 10, 14, 15, 22, 23, 24, 26, 27, 28, August 6, 18, 23, 24, 25, 27, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	13.2	9.8	8.5	4.8b	---	4.7b	4.8b	3.6b	2.7a
2	---	7.0	---	13.1	9.9	8.6	4.8b	---	5.3b	4.8b	3.1b	3.3b
3	---	6.9	---	12.6	9.9	8.7	4.6b	---	4.1b	3.8a	2.3a	3.3b
4	---	6.9	---	12.4	9.8	9.1	5.0b	---	---	4.3b	2.5a	3.2b
5	---	7.1	---	12.2	9.2	8.5	5.2b	---	---	3.2a	2.0a	3.9b
6	---	6.9	---	12.1	8.9	8.3	5.2b	---	---	3.2a	1.8a	3.3b
7	---	7.0	---	12.2	8.8	8.3	5.2b	---	---	3.1a	3.1a	3.2b
8	---	6.9	---	12.7	8.5	7.7	5.2b	---	---	3.4a	3.0a	3.6b
9	---	7.1	---	13.5	8.3	7.6	5.2b	---	---	2.6a	2.8a	3.2b
10	---	7.6	---	13.5	8.4	7.1	5.1b	---	---	3.6a	3.1a	3.6b
11	---	7.8	---	13.9	8.3	7.2	4.8b	---	---	2.9a	2.8a	3.9b
12	---	8.0	---	14.1	8.2	7.3	4.7b	---	---	3.1a	2.5a	3.3b
13	---	7.9	---	13.8	8.5	7.4	4.8b	---	---	3.5a	2.4a	3.7b
14	---	7.9	---	13.9	8.8	7.6	4.5b	---	---	2.7a	2.6a	3.6b
15	---	8.2	---	14.1	9.0	7.6	4.6b	---	5.9b	2.3a	2.8a	3.4b
16	---	8.2	---	13.6	9.4	7.9	4.8b	---	6.2	3.4b	2.7a	3.8b
17	---	8.3	---	14.0	9.4	8.1	---	---	5.9b	3.1a	2.7a	3.8b
18	---	8.4	---	14.1	9.2	8.4	3.4b	---	5.2b	3.3a	2.0a	4.4b
19	---	8.4	---	13.8	9.3	9.0	3.6b	---	4.8b	4.1a	3.3a	4.2b
20	---	8.6	---	13.3	9.5	9.2	4.5b	---	4.5b	3.8b	3.0a	3.9b
21	---	8.6	---	---	9.1	8.7	6.1b	---	4.1b	3.2a	2.9a	4.0b
22	---	8.7	---	---	8.7	5.9	---	---	4.1b	2.1a	2.4a	4.0b
23	---	8.7	---	---	---	5.5	---	---	4.3b	1.8a	1.4a	4.2b
24	---	8.9	13.7	---	---	5.7	---	---	4.7b	2.0a	1.8a	3.9b
25	---	9.0	13.6	---	8.6	5.5	---	---	5.0b	3.5a	2.0a	4.2b
26	---	9.0	13.5	---	8.4	5.4b	---	---	5.0b	2.6a	2.0a	4.5b
27	---	---	13.4	---	8.6	5.3b	---	---	5.1b	2.2a	2.1a	4.4b
28	---	---	13.5	---	8.6	5.3b	---	---	5.5b	2.6a	2.3a	4.7b
29	---	---	13.4	10.2	---	5.2b	---	---	5.1b	2.9a	2.6a	4.8b
30	---	---	13.5	10.7	---	5.1b	---	5.7b	5.2b	3.6a	2.6a	5.1b
31	---	---	13.7	10.1	---	5.0b	---	5.1b	---	---	2.9a	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

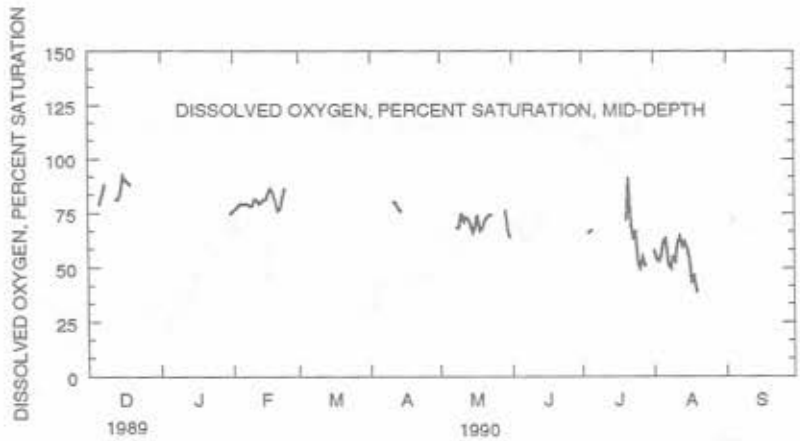
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 124 percent July 20, 1990; minimum value recorded, 20 percent August 2, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	---	58	---
2	---	---	77	---	---	---	---	---	54	---
3	---	---	78	---	---	---	---	---	53	---
4	---	---	79	---	---	---	---	66	56	---
5	---	---	79	---	---	---	---	67	62	---
6	79	---	79	---	---	---	---	---	63	---
7	83	---	---	---	---	---	---	---	52	---
8	88	---	78	---	---	68	---	---	50	---
9	---	---	78	---	---	68	---	---	55	---
10	---	---	81	---	---	75	---	---	53	---
11	---	---	81	---	80	71	---	---	61	---
12	---	---	79	---	79	73	---	---	64	---
13	81	---	---	---	77	72	---	---	60	---
14	81	---	---	---	76	70	---	---	62	---
15	85	---	81	---	---	66	---	---	59	---
16	92	---	85	---	---	68	---	---	54	---
17	90	---	86	---	---	74	---	---	44	---
18	89	---	---	---	---	67	---	---	46	---
19	88	---	---	---	---	68	---	---	39	---
20	---	---	76	---	---	71	---	72	---	---
21	---	---	77	---	---	73	---	91	---	---
22	---	---	81	---	---	74	---	70	---	---
23	---	---	86	---	---	74	---	64	---	---
24	---	---	---	---	---	---	---	66	---	---
25	---	---	---	---	---	---	---	52	---	---
26	---	---	---	---	---	---	---	50	---	---
27	---	---	---	---	---	---	---	55	---	---
28	---	---	---	---	---	---	---	51	---	---
29	---	---	---	---	---	76	---	---	---	---
30	---	---	---	---	---	66	---	---	---	---
31	---	---	---	---	---	64	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

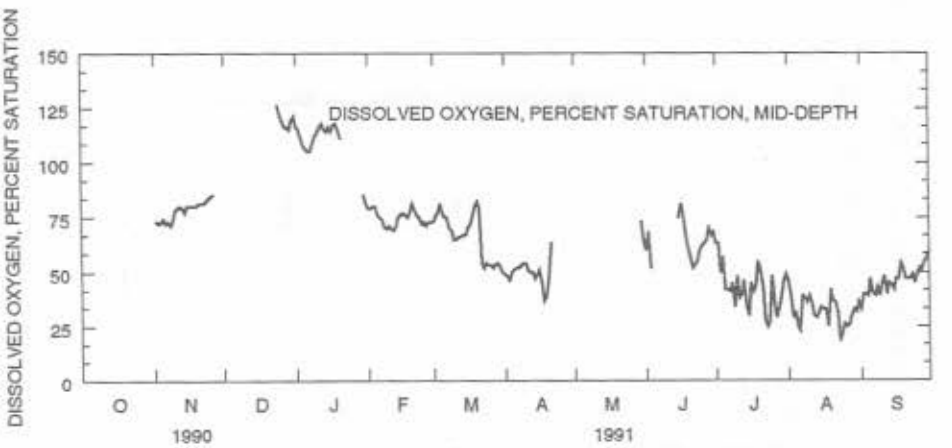
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 133 percent December 24, 1990; minimum value recorded, <10 percent July 8, 9, 10, 15, 22, 23, 24, 26, August 18, 23, 27, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	116	79	73	49	---	60	63	46	33
2	---	73	---	115	79	75	48	---	68	63	39	40
3	---	72	---	111	80	77	46	---	52	50	29	40
4	---	73	---	108	80	81	50	---	---	57	32	39
5	---	74	---	106	76	77	51	---	---	42	25	47
6	---	72	---	105	75	75	52	---	---	42	23	40
7	---	73	---	105	74	75	52	---	---	41	39	39
8	---	71	---	108	71	70	53	---	---	45	38	43
9	---	73	---	112	70	69	54	---	---	34	36	39
10	---	78	---	113	71	65	54	---	---	48	39	44
11	---	79	---	116	70	65	51	---	---	38	35	48
12	---	80	---	118	69	66	50	---	---	40	30	40
13	---	79	---	115	71	66	50	---	---	46	29	45
14	---	77	---	114	75	67	47	---	---	35	32	44
15	---	80	---	116	76	67	49	---	75	30	34	42
16	---	80	---	114	77	70	51	---	81	45	33	47
17	---	80	---	117	76	72	---	---	77	41	33	47
18	---	80	---	118	75	75	37	---	67	44	25	54
19	---	80	---	115	77	80	39	---	62	55	42	52
20	---	81	---	111	81	82	48	---	57	51	37	47
21	---	81	---	---	78	79	63	---	52	43	36	47
22	---	81	---	---	76	54	---	---	53	28	31	47
23	---	82	---	---	---	52	---	---	55	25	18	49
24	---	83	126	---	---	54	---	---	59	27	22	45
25	---	84	122	---	73	53	---	---	62	48	26	49
26	---	85	119	---	71	53	---	---	63	35	25	52
27	---	---	116	---	73	52	---	---	65	29	26	51
28	---	---	116	---	73	54	---	---	70	34	30	55
29	---	---	115	81	---	54	---	---	67	38	33	56
30	---	---	119	85	---	52	---	73	68	46	32	59
31	---	---	121	81	---	50	---	65	---	---	36	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

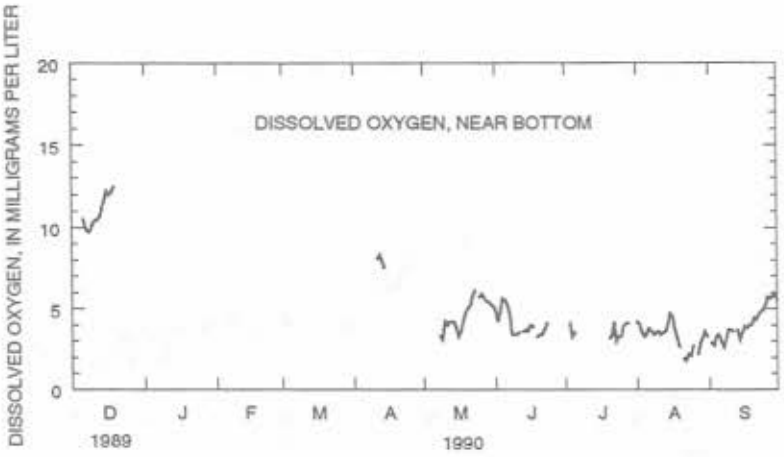
Dissolved Oxygen, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 14.0 mg/L December 16, 1989; minimum value recorded, <1.0 mg/L June 19, August 21, 22, 23, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	4.8b	---	4.2b	---
2	---	---	---	---	---	---	4.2b	---	4.0b	2.9b
3	---	---	---	---	---	---	4.9b	4.1b	3.5b	2.7a
4	---	---	---	---	---	---	5.6b	3.3a	3.3a	3.3b
5	---	---	---	---	---	---	5.5b	3.5a	3.4a	3.4b
6	10.5	---	---	---	---	---	5.2b	---	3.8b	3.0b
7	9.9	---	---	---	---	---	4.6b	---	3.6b	2.6a
8	9.7	---	---	---	---	3.3a	3.4b	---	3.4b	3.0a
9	9.8	---	---	---	---	3.1a	3.4a	---	3.5b	3.7b
10	10.3	---	---	---	---	4.2b	3.4a	---	3.6b	3.7b
11	10.4	---	---	---	8.1	4.0b	3.5b	---	3.4b	3.6b
12	10.5	---	---	---	8.3	4.2b	---	---	3.5b	---
13	10.7	---	---	---	7.9	4.2b	3.6b	---	3.6b	3.7b
14	11.2	---	---	---	7.5	4.2b	3.7b	---	3.9b	3.1b
15	11.7	---	---	---	---	3.8b	3.6b	---	4.7b	3.5b
16	12.2	---	---	---	---	3.3b	4.0b	---	4.5b	3.9b
17	12.0	---	---	---	---	3.6b	3.9b	---	3.8b	3.8b
18	12.2	---	---	---	---	4.3b	---	---	3.2b	4.0b
19	12.4	---	---	---	---	4.8b	3.3a	---	2.6a	4.0b
20	---	---	---	---	---	5.0b	3.4b	3.2a	---	4.4b
21	---	---	---	---	---	5.2b	3.4b	3.3a	1.9a	4.3b
22	---	---	---	---	---	5.7b	3.7b	4.2b	1.8a	4.6b
23	---	---	---	---	---	6.1	4.1b	3.0b	2.2a	4.8b
24	---	---	---	---	---	---	---	3.3b	2.1	4.9b
25	---	---	---	---	---	5.7	---	3.3b	2.7a	5.2b
26	---	---	---	---	---	5.9	4.4b	3.9b	---	5.7
27	---	---	---	---	---	5.6	---	4.1b	2.2a	5.6
28	---	---	---	---	---	5.4b	---	4.1b	2.8a	5.8b
29	---	---	---	---	---	5.4b	---	---	3.2b	5.9
30	---	---	---	---	---	5.2b	---	---	3.6b	5.5b
31	---	---	---	---	---	5.1b	---	---	3.3b	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--**Continued**

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

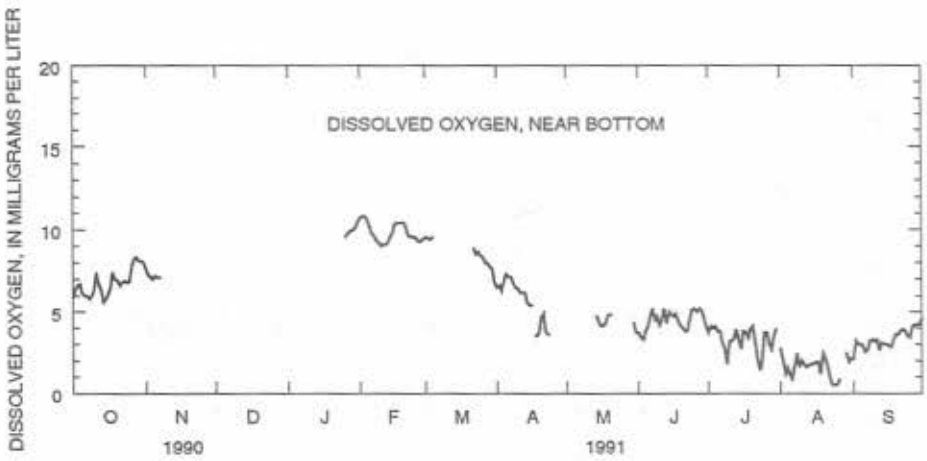
Dissolved Oxygen, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.0 mg/L February 3, 1991; minimum value recorded, <1.0 mg/L July 9, 15, 23, 24, 28, August 3-7, 12-26, September 1, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	7.6	---	---	10.7	9.5	6.5b	---	3.7b	3.7a	2.7a	2.1a
2	6.4	7.3	---	---	10.8	9.5	6.6	---	3.4b	4.1b	2.0a	3.2b
3	6.6	7.1	---	---	10.8	9.4	6.3	---	3.3b	4.0b	1.2a	3.0b
4	6.7	7.0	---	---	10.6	9.5	6.9	---	3.8b	4.1b	1.5a	3.0b
5	6.2	7.2	---	---	10.2	---	7.3	---	4.1b	3.8b	1.1a	2.9a
6	6.0	7.1	---	---	9.8	---	7.1b	---	4.6b	3.8b	.9a	2.5a
7	6.0b	7.1	---	---	9.6	---	7.1	---	5.2b	3.0b	1.7a	2.6a
8	5.8	---	---	---	9.4	---	6.7	---	4.5b	2.8a	2.4a	3.2b
9	6.0	---	---	---	9.2	---	6.5	---	4.7b	1.8a	1.6a	3.3b
10	6.4b	---	---	---	9.0	---	6.4	---	4.2b	3.2a	2.0a	3.2b
11	7.4	---	---	---	9.1	---	6.2	---	4.4b	3.2a	1.7a	3.3b
12	6.7	---	---	---	9.1	---	6.2	---	5.2b	3.4a	1.6a	2.6b
13	6.3	---	---	---	9.2	---	6.2	---	4.3b	3.9b	1.7a	3.1b
14	5.6b	---	---	---	9.5	---	5.6	4.7b	5.0b	3.3a	1.8a	3.0b
15	5.8b	---	---	---	9.8	---	5.4b	4.3b	4.8b	2.7a	1.8a	3.0b
16	6.1b	---	---	---	10.3	---	5.4b	4.1b	4.7b	3.8a	1.9a	2.9b
17	6.5	---	---	---	10.4	---	---	4.2b	4.9b	3.7a	1.9a	2.8a
18	7.4	---	---	---	10.4	---	3.5a	4.3b	4.4b	3.4b	1.2a	3.3a
19	7.0	---	---	---	10.4	---	3.6b	4.8b	4.2b	3.9b	2.4a	3.6a
20	6.9	---	---	---	10.4	---	4.6b	4.8b	4.0b	4.1a	2.2a	3.6a
21	6.6	---	---	---	10.0	---	4.9b	---	3.8b	3.1a	1.6a	3.8b
22	6.8	---	---	---	9.6	8.8	3.7b	---	3.8b	2.2a	.9a	3.9b
23	6.9	---	---	---	9.6	8.5	3.6b	---	4.5b	1.4a	.5a	3.8b
24	6.8	---	---	---	9.5	8.6	---	---	5.1b	1.8a	.5a	3.5b
25	6.8	---	---	---	9.5	8.4	---	---	5.2b	3.7a	.5a	3.4b
26	7.8	---	---	9.6	9.3	8.3	---	---	5.0b	3.7a	.8a	4.1b
27	8.2	---	---	9.8	9.3	8.0	---	---	5.2b	3.1a	---	4.2b
28	8.3	---	---	9.9	9.4	7.9	---	---	5.1b	2.7a	---	4.2b
29	8.1	---	---	10.0	---	7.7	---	---	4.6b	3.4a	2.4a	4.2b
30	8.1	---	---	10.1	---	7.6	---	4.3b	4.2b	3.9b	1.9a	4.5b
31	8.0	---	---	10.5	---	6.8	---	3.7b	---	---	2.1a	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

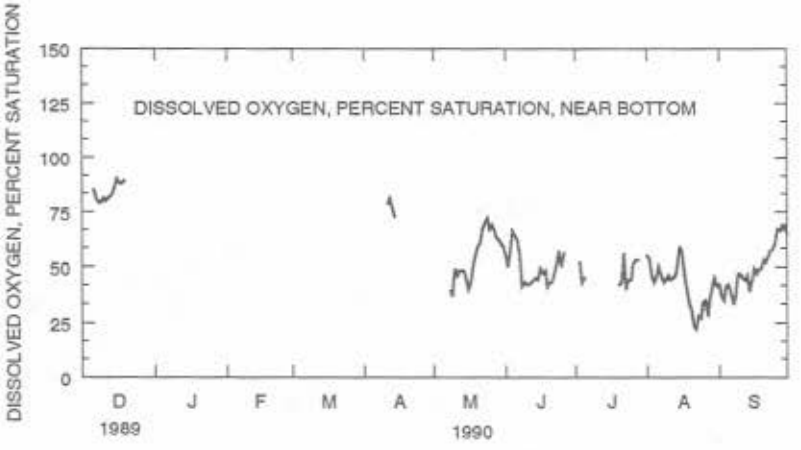
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for December 1989 through September 1990.--Maximum value recorded, 103 percent December 16, 1989; minimum value recorded, <10 percent August 21, 22, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), DECEMBER 1989-SEPTEMBER 1990

Day	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	55	---	55	---
2	---	---	---	---	---	---	50	---	53	37
3	---	---	---	---	---	---	57	52	46	35
4	---	---	---	---	---	---	66	43	43	41
5	---	---	---	---	---	---	64	45	45	42
6	85	---	---	---	---	---	62	---	50	38
7	81	---	---	---	---	---	55	---	46	33
8	79	---	---	---	---	39	41	---	43	37
9	79	---	---	---	---	37	43	---	44	47
10	81	---	---	---	---	49	42	---	46	47
11	80	---	---	---	79	46	42	---	44	45
12	81	---	---	---	81	48	---	---	45	---
13	82	---	---	---	77	48	44	---	46	46
14	83	---	---	---	73	48	45	---	50	39
15	87	---	---	---	---	44	44	---	59	44
16	90	---	---	---	---	40	49	---	56	49
17	88	---	---	---	---	43	47	---	47	47
18	88	---	---	---	---	51	---	---	40	49
19	89	---	---	---	---	56	41	---	33	49
20	---	---	---	---	---	59	43	42	---	53
21	---	---	---	---	---	61	43	43	23	52
22	---	---	---	---	---	67	47	56	22	55
23	---	---	---	---	---	70	52	40	28	57
24	---	---	---	---	---	---	---	44	27	58
25	---	---	---	---	---	67	---	44	34	61
26	---	---	---	---	---	69	56	51	---	67
27	---	---	---	---	---	66	---	53	28	66
28	---	---	---	---	---	63	---	53	36	69
29	---	---	---	---	---	62	---	---	41	69
30	---	---	---	---	---	60	---	---	45	65
31	---	---	---	---	---	59	---	---	41	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 22

Table 3.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 1, Chowan River at light 22, December 1989-September 1991*--Continued

[Location of site 1 is latitude 36°21'48", longitude 76°46'42", Gates County; U.S. Geological Survey downstream order number 0205338780]

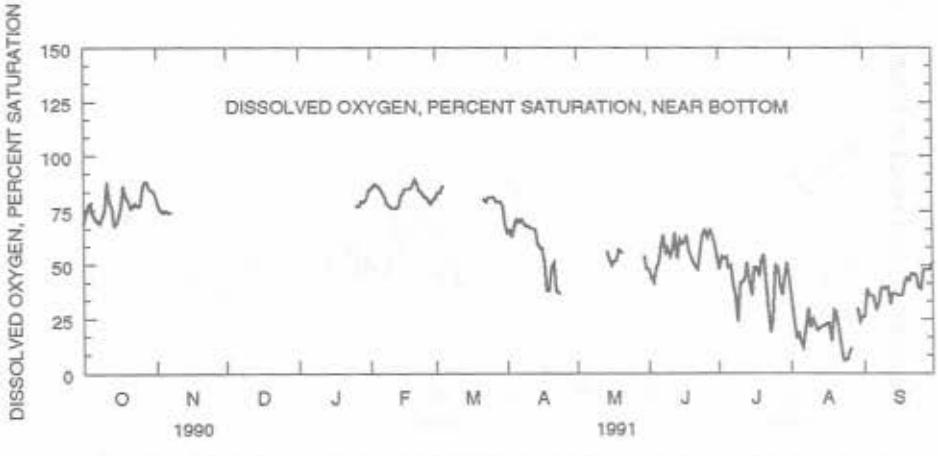
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 102 percent October 9, 1990; minimum value recorded, <10 percent July 9, 23, August 3, 5, 6, 7, 13, 18, 20-26, September 1, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	79	---	---	85	81	65	---	48	48	35	26
2	74	76	---	---	86	83	66	---	44	54	25	39
3	77	75	---	---	87	83	63	---	42	53	16	36
4	78	74	---	---	86	86	68	---	48	54	19	36
5	73	75	---	---	85	---	71	---	51	49	14	35
6	71	74	---	---	83	---	70	---	57	50	12	30
7	70	74	---	---	81	---	71	---	64	40	21	32
8	69	---	---	---	78	---	69	---	56	37	30	39
9	72	---	---	---	77	---	68	---	58	24	21	40
10	76	---	---	---	76	---	68	---	54	42	25	39
11	88	---	---	---	76	---	67	---	56	42	22	40
12	79	---	---	---	76	---	67	---	65	44	20	32
13	76	---	---	---	77	---	66	---	53	51	21	37
14	68	---	---	---	81	---	60	56	62	43	22	37
15	69	---	---	---	83	---	58	52	60	36	22	36
16	72	---	---	---	85	---	58	50	61	49	23	36
17	77	---	---	---	85	---	---	52	64	49	23	36
18	86	---	---	---	85	---	38	52	57	45	15	42
19	81	---	---	---	86	---	38	57	54	52	29	44
20	79	---	---	---	89	---	49	56	51	55	28	43
21	76	---	---	---	87	---	51	---	49	41	20	46
22	77	---	---	---	84	80	38	---	48	30	12	46
23	78	---	---	---	83	79	37	---	58	19	<10	45
24	77	---	---	---	81	81	---	---	64	25	<10	40
25	77	---	---	---	81	81	---	---	66	50	<10	39
26	85	---	---	77	79	81	---	---	63	49	11	48
27	88	---	---	77	78	79	---	---	66	41	---	48
28	88	---	---	79	80	79	---	---	64	36	---	48
29	85	---	---	79	---	79	---	---	60	44	30	48
30	84	---	---	80	---	77	---	54	55	51	24	51
31	83	---	---	84	---	69	---	48	---	---	26	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 22

Table 4.--*Five-day mean water temperature and dissolved-oxygen values in water at site 1, Chowan River at light 22, December 1989-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
11/30/89-12/04/89	---	---	---	---	---	---	---	---
12/05/89-12/09/89	6.2	6.0	10.3	10.4	10.3	10.1	10.1	10.1
12/10/89-12/14/89	4.1	3.8	11.0	11.1	10.6	10.7	10.6	10.8
12/15/89-12/19/89	2.4	2.1	12.4	12.4	12.3	12.2	12.1	12.2
12/20/89-12/24/89	<1.0	---	13.1	---	13.0	---	13.0	---
12/25/89-12/29/89	---	---	---	---	---	---	---	---
12/30/89-01/03/90	---	---	---	---	---	---	---	---
01/04/90-01/08/90	---	---	---	---	---	---	---	---
01/09/90-01/13/90	---	---	---	---	---	---	---	---
01/14/90-01/18/90	---	---	---	---	---	---	---	---
01/19/90-01/23/90	---	---	---	---	---	---	---	---
01/24/90-01/28/90	---	---	---	---	---	---	---	---
01/29/90-02/02/90	10.3	10.1	8.5	8.5	8.6	8.5	---	---
02/03/90-02/07/90	10.4	10.2	8.7	8.6	8.8	8.8	---	---
02/08/90-02/12/90	11.3	11.1	8.4	8.3	8.7	8.7	---	---
02/13/90-02/17/90	12.2	12.2	8.3	8.2	8.9	8.9	---	---
02/18/90-02/22/90	12.3	12.0	7.8	7.7	8.5	8.5	---	8.9
02/23/90-02/27/90	11.3	11.2	9.0	9.0	9.4	9.5	9.0	10.0
02/28/90-03/04/90	---	---	---	---	---	---	---	---
03/05/90-03/09/90	---	---	---	---	---	---	---	---
03/10/90-03/14/90	---	---	---	---	---	---	---	---
03/15/90-03/19/90	15.9	15.7	8.9	8.7	9.1	8.8	9.0	8.5
03/20/90-03/24/90	---	---	---	---	---	---	---	---
03/25/90-03/29/90	---	---	---	---	---	---	---	---
03/30/90-04/03/90	---	---	---	---	---	---	---	---
04/04/90-04/08/90	---	---	---	---	---	---	---	---
04/09/90-04/13/90	14.0	13.9	8.3	8.3	8.1	8.1	7.8	8.4
04/14/90-04/18/90	14.2	14.0	8.2	8.0	7.8	7.8	7.2	7.2
04/19/90-04/23/90	---	---	---	---	---	---	---	---
04/24/90-04/28/90	---	---	---	---	---	---	---	---
04/29/90-05/03/90	---	---	---	---	---	---	---	---
05/04/90-05/08/90	22.4	22.6	5.7	5.5	5.9	5.8	4.3	3.3
05/09/90-05/13/90	22.5	22.3	6.3	6.1	6.3	6.2	4.1	4.0
05/14/90-05/18/90	23.3	23.2	6.4	6.2	5.9	5.8	3.9	3.9
05/19/90-05/23/90	23.1	22.9	6.0	6.0	6.2	6.2	5.4	5.5

Table 4.--*Five-day mean water temperature and dissolved-oxygen values in water at site 1, Chowan River at light 22, December 1989-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
05/24/90-05/28/90	22.7	22.6	6.0	5.9	6.0	6.5	5.8	5.7
05/29/90-06/02/90	22.4	22.7	5.6	5.7	5.9	5.7	4.8	4.9
06/03/90-06/07/90	23.5	23.4	5.9	5.9	---	---	5.2	5.0
06/08/90-06/12/90	25.5	25.4	5.7	5.6	---	---	3.4	3.5
06/13/90-06/17/90	24.7	24.7	5.3	5.5	---	---	3.8	3.9
06/18/90-06/22/90	26.9	26.8	6.2	5.9	---	---	3.5	3.5
06/23/90-06/27/90	27.3	27.2	6.0	5.7	---	---	4.4	4.2
06/28/90-07/02/90	28.0	27.8	5.7	4.9	---	4.6	4.2	4.4
07/03/90-07/07/90	27.8	27.9	4.5	4.5	4.9	5.2	3.6	3.5
07/08/90-07/12/90	---	---	---	---	---	---	---	---
07/13/90-07/17/90	---	---	---	---	---	---	---	---
07/18/90-07/22/90	30.1	29.6	7.7	5.8	6.0	5.3	3.6	3.5
07/23/90-07/27/90	29.7	29.4	4.1	4.2	4.1	4.5	3.4	3.8
07/28/90-08/01/90	29.5	29.4	4.7	4.5	4.2	4.5	4.0	4.4
08/02/90-08/06/90	29.3	28.9	4.3	4.0	4.3	4.4	3.4	3.8
08/07/90-08/11/90	28.0	27.8	4.0	4.1	4.2	4.3	3.4	3.5
08/12/90-08/16/90	28.1	27.4	5.6	5.1	4.5	4.7	3.9	4.2
08/17/90-08/21/90	27.3	26.8	5.7	5.4	3.4	3.3	2.6	2.6
08/22/90-08/26/90	27.0	26.9	---	---	---	---	2.4	2.3
08/27/90-08/31/90	27.3	26.8	---	---	---	---	2.9	3.3
09/01/90-09/05/90	26.7	26.5	---	---	---	---	3.2	3.1
09/06/90-09/10/90	27.1	26.8	---	---	---	---	3.1	3.4
09/11/90-09/15/90	26.8	26.6	---	---	---	---	3.4	3.6
09/16/90-09/20/90	25.5	25.1	---	---	---	---	4.0	4.1
09/21/90-09/25/90	24.1	23.6	---	---	---	---	4.7	5.1
09/26/90-09/30/90	23.4	23.1	---	---	---	---	5.8	5.7
10/01/90-10/05/90	23.1	22.6	6.3	6.1	---	---	6.5	6.3
10/06/90-10/10/90	23.9	23.4	6.9	6.5	---	---	6.1	6.2
10/11/90-10/15/90	23.9	23.8	6.5	6.1	---	---	6.4	6.2
10/16/90-10/20/90	22.9	22.4	6.9	6.6	---	---	6.8	6.8
10/21/90-10/25/90	21.3	21.0	7.0	6.9	---	---	6.9	6.9
10/26/90-10/30/90	18.0	17.6	8.2	8.2	---	---	8.1	8.2
10/31/90-11/04/90	17.4	17.1	7.8	7.7	7.0	6.9	7.4	7.2
11/05/90-11/09/90	17.1	16.8	7.9	7.9	7.0	7.1	7.2	7.0
11/10/90-11/14/90	15.4	15.0	8.8	8.8	7.9	7.9	---	---

Table 4.--***Five-day mean water temperature and dissolved-oxygen values in water at site 1, Chowan River at light 22, December 1989-September 1991, for day and night periods***--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
11/15/90-11/19/90	13.7	13.3	9.3	9.3	8.3	8.3	---	---
11/20/90-11/24/90	12.6	12.2	8.8	8.8	8.7	8.7	---	---
11/25/90-11/29/90	12.7	12.5	8.9	8.9	9.0	8.9	---	---
11/30/90-12/04/90	---	---	---	---	---	---	---	---
12/05/90-12/09/90	---	---	---	---	---	---	---	---
12/10/90-12/14/90	---	---	---	---	---	---	---	---
12/15/90-12/19/90	---	---	---	---	---	---	---	---
12/20/90-12/24/90	11.5	11.4	8.9	8.8	13.7	13.7	---	---
12/25/90-12/29/90	9.4	9.1	8.5	8.6	13.5	13.4	---	---
12/30/90-01/03/91	9.7	9.5	8.6	8.4	13.3	13.0	---	---
01/04/91-01/08/91	8.8	8.5	8.1	8.2	12.3	12.5	---	---
01/09/91-01/13/91	7.4	7.3	9.1	9.1	13.8	13.8	---	---
01/14/91-01/18/91	7.3	7.2	9.4	9.3	14.0	13.9	---	---
01/19/91-01/23/91	7.2	7.0	9.3	9.2	13.6	13.4	---	---
01/24/91-01/28/91	5.8	5.4	10.0	10.2	10.2	10.2	9.7	9.8
01/29/91-02/02/91	5.7	5.6	---	---	10.2	10.1	10.4	10.5
02/03/91-02/07/91	7.3	7.2	---	---	9.3	9.1	10.2	10.0
02/08/91-02/12/91	7.8	7.6	---	---	8.3	8.3	9.1	9.1
02/13/91-02/17/91	7.4	7.2	---	---	9.1	9.0	9.9	10.0
02/18/91-02/22/91	8.3	8.2	---	---	9.2	9.1	10.1	10.1
02/23/91-02/27/91	8.3	8.0	---	---	8.6	8.5	9.4	9.4
02/28/91-03/04/91	9.5	9.5	---	---	8.7	8.6	9.4	9.5
03/05/91-03/09/91	11.1	10.9	---	---	8.1	7.9	---	---
03/10/91-03/14/91	10.6	10.4	---	---	7.4	7.3	---	---
03/15/91-03/19/91	10.1	9.9	---	---	8.3	8.3	---	---
03/20/91-03/24/91	11.8	11.7	8.6	8.2	7.1	6.4	8.7	8.6
03/25/91-03/29/91	15.2	15.2	7.7	7.4	5.4	5.3	8.0	8.0
03/30/91-04/03/91	15.7	15.3	6.3	6.2	4.8	4.8	6.6	6.7
04/04/91-04/08/91	15.5	15.2	6.3	6.2	5.2	5.1	7.0	7.0
04/09/91-04/13/91	18.3	18.1	5.5	5.1	4.9	4.8	6.2	6.3
04/14/91-04/18/91	19.1	18.8	4.8	4.5	4.3	4.1	4.9	4.7
04/19/91-04/23/91	17.7	17.3	---	---	4.9	5.0	4.1	4.1
04/24/91-04/28/91	18.3	18.3	---	---	---	---	---	---
04/29/91-05/03/91	21.7	21.4	---	---	---	---	---	---
05/04/91-05/08/91	22.1	22.1	---	---	---	---	---	---

Table 4.--*Five-day mean water temperature and dissolved-oxygen values in water at site 1, Chowan River at light 22, December 1989-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
05/09/91-05/13/91	23.4	23.2	6.1	5.5	---	---	4.2	3.5
05/14/91-05/18/91	25.0	24.7	6.0	5.6	---	---	4.4	4.3
05/19/91-05/23/91	23.9	23.6	5.8	5.6	---	---	5.0	4.6
05/24/91-05/28/91	27.1	26.8	8.8	7.3	---	---	---	---
05/29/91-06/02/91	28.1	27.8	7.3	6.8	5.1	5.2	3.8	3.8
06/03/91-06/07/91	26.9	26.2	5.1	4.7	3.7	3.8	4.1	4.6
06/08/91-06/12/91	26.9	26.5	8.0	7.5	---	---	4.6	4.5
06/13/91-06/17/91	28.0	27.8	6.6	5.9	6.0	6.0	4.7	4.9
06/18/91-06/22/91	28.1	27.9	3.7	3.6	4.4	4.6	4.0	4.2
06/23/91-06/27/91	27.1	26.6	4.0	3.2	4.8	5.0	5.2	5.0
06/28/91-07/02/91	28.9	29.0	5.1	4.8	5.3	4.6	4.3	4.1
07/03/91-07/07/91	29.6	29.1	5.0	4.5	3.7	3.3	3.8	3.5
07/08/91-07/12/91	29.8	29.5	4.3	3.9	3.2	3.0	2.9	2.9
07/13/91-07/17/91	29.6	29.2	3.6	3.1	3.0	2.9	3.3	3.5
07/18/91-07/22/91	30.1	30.1	4.3	3.7	3.6	2.9	3.4	3.0
07/23/91-07/27/91	31.1	30.6	---	---	2.5	2.4	2.7	2.9
07/28/91-08/01/91	28.4	28.0	3.9	3.9	3.5	3.3	3.4	3.1
08/02/91-08/06/91	27.7	27.5	3.9	3.7	2.3	2.3	1.3	1.2
08/07/91-08/11/91	27.0	26.6	3.4	3.1	2.9	3.0	1.9	2.0
08/12/91-08/16/91	26.0	25.7	2.2	2.1	2.5	2.6	1.7	1.9
08/17/91-08/21/91	27.0	26.5	2.8	2.5	2.7	2.9	1.8	1.8
08/22/91-08/26/91	27.0	26.8	2.8	2.8	1.8	1.9	<1.0	<1.0
08/27/91-08/31/91	27.1	26.4	---	---	2.6	2.7	2.3	2.1
09/01/91-09/05/91	25.5	25.0	---	---	3.3	3.3	2.8	2.9
09/06/91-09/10/91	25.3	24.7	---	---	3.5	3.4	2.9	3.2
09/11/91-09/15/91	25.4	24.8	---	---	3.6	3.5	3.1	2.9
09/16/91-09/20/91	26.3	25.5	---	---	4.1	4.1	3.2	3.3
09/21/91-09/25/91	23.3	23.0	---	---	4.1	4.1	3.7	3.8
09/26/91-09/30/91	22.6	21.9	---	---	4.6	4.8	4.0	4.4

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

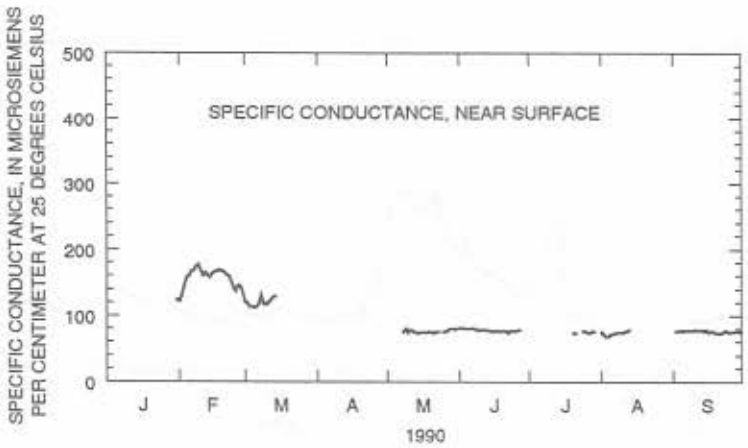
Specific Conductance, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 181 µS/cm February 9, 1990; minimum value recorded, 21 µS/cm June 22, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	122	120	---	---	81	---	74	---
2	---	129	120	---	---	81	---	71	76
3	---	145	113	---	---	80	---	68	76
4	---	157	113	---	---	80	---	68	77
5	---	159	112	---	---	80	---	71	76
6	---	167	113	---	---	80	---	72	77
7	---	168	120	---	---	81	---	73	77
8	---	174	131	---	75	79	---	74	77
9	---	177	117	---	80	77	---	74	77
10	---	167	117	---	74	78	---	74	78
11	---	161	120	---	78	78	---	75	77
12	---	164	124	---	76	78	---	76	77
13	---	160	128	---	74	77	---	78	78
14	---	157	129	---	73	77	---	---	76
15	---	164	---	---	74	75	---	---	78
16	---	166	---	---	74	76	---	---	74
17	---	167	---	---	74	76	---	---	76
18	---	169	---	---	74	76	---	---	75
19	---	167	---	---	75	76	---	---	73
20	---	166	---	---	74	76	73	---	73
21	---	161	---	---	73	76	73	---	73
22	---	160	---	---	75	73	---	---	74
23	---	153	---	---	75	77	---	---	77
24	---	145	---	---	---	76	76	---	75
25	---	137	---	---	75	76	76	---	74
26	---	146	---	---	75	77	74	---	75
27	---	144	---	---	77	78	73	---	75
28	---	135	---	---	80	---	76	---	75
29	---	---	---	---	80	---	75	---	75
30	---	---	---	---	79	---	---	---	74
31	124	---	---	---	80	---	---	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

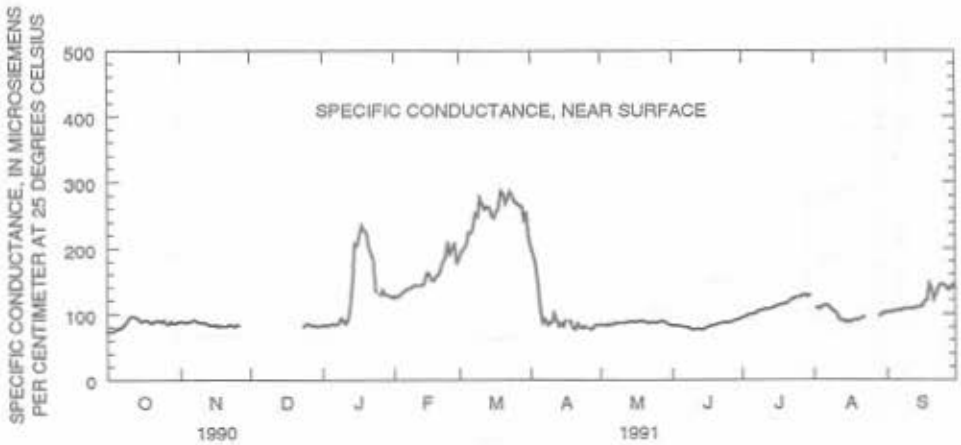
Specific Conductance, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 305 µS/cm March 19, 1991; minimum value recorded, 65 µS/cm April 20, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	74	89	---	83	127	186	202	84	83	95	---	103
2	73	88	---	84	125	195	189	84	83	96	109	103
3	73	88	---	82	127	201	176	84	83	98	107	103
4	75	88	---	84	131	206	147	83	82	100	110	104
5	78	88	---	85	134	224	110	85	82	100	112	105
6	78	90	---	84	137	223	87	84	81	101	113	105
7	80	92	---	84	138	231	92	86	80	102	112	106
8	83	89	---	86	139	253	84	87	80	104	107	107
9	87	87	---	94	142	249	87	87	77	106	105	107
10	93	88	---	90	144	276	88	87	77	106	103	107
11	97	87	---	86	143	267	101	87	77	107	97	107
12	97	87	---	92	143	259	91	88	78	107	91	108
13	95	84	---	111	144	263	82	88	77	108	91	109
14	93	83	---	151	147	262	86	89	77	109	88	109
15	89	83	---	207	162	250	82	88	79	111	89	110
16	89	84	---	206	162	247	91	88	81	112	88	111
17	91	81	---	216	152	257	---	90	82	113	90	118
18	91	83	---	235	151	259	90	89	83	114	91	120
19	88	82	---	228	158	286	80	90	83	114	91	145
20	87	82	---	223	159	283	77	89	85	115	92	138
21	89	82	---	203	169	268	86	87	86	118	94	121
22	90	85	---	191	179	276	81	87	87	122	96	130
23	90	83	---	185	187	285	79	88	87	122	---	141
24	88	81	82	134	211	280	82	88	88	125	---	145
25	91	84	85	---	192	270	79	87	87	125	---	144
26	85	83	85	129	200	269	79	88	88	126	---	141
27	85	---	82	136	209	264	77	90	90	128	---	136
28	89	---	83	129	179	264	80	89	91	129	---	138
29	86	---	82	128	---	245	84	88	92	126	98	144
30	87	---	81	127	---	255	84	85	93	128	101	139
31	88	---	82	124	---	220	---	84	---	---	102	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

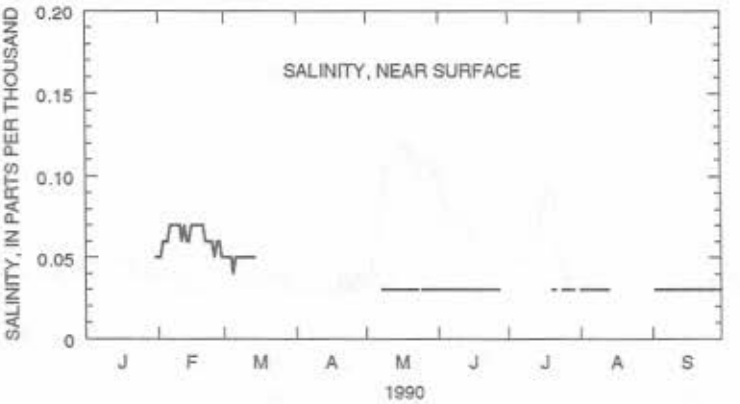
Salinity, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 0.07 ppt February 4-13, 15-22, 1990; minimum value recorded, 0.01 ppt June 22, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	0.05	0.05	---	---	0.03	---	0.03	---
2	---	.05	.05	---	---	.03	---	.03	0.03
3	---	.06	.05	---	---	.03	---	.03	.03
4	---	.06	.05	---	---	.03	---	.03	.03
5	---	.06	.04	---	---	.03	---	.03	.03
6	---	.07	.05	---	---	.03	---	.03	.03
7	---	.07	.05	---	---	.03	---	.03	.03
8	---	.07	.05	---	0.03	.03	---	.03	.03
9	---	.07	.05	---	.03	.03	---	.03	.03
10	---	.07	.05	---	.03	.03	---	.03	.03
11	---	.06	.05	---	.03	.03	---	.03	.03
12	---	.07	.05	---	.03	.03	---	.03	.03
13	---	.06	.05	---	.03	.03	---	.03	.03
14	---	.06	.05	---	.03	.03	---	---	.03
15	---	.07	---	---	.03	.03	---	---	.03
16	---	.07	---	---	.03	.03	---	---	.03
17	---	.07	---	---	.03	.03	---	---	.03
18	---	.07	---	---	.03	.03	---	---	.03
19	---	.07	---	---	.03	.03	---	---	.03
20	---	.07	---	---	.03	.03	0.03	---	.03
21	---	.06	---	---	.03	.03	.03	---	.03
22	---	.06	---	---	.03	.03	---	---	.03
23	---	.06	---	---	.03	.03	---	---	.03
24	---	.06	---	---	---	.03	.03	---	.03
25	---	.05	---	---	.03	.03	.03	---	.03
26	---	.06	---	---	.03	.03	.03	---	.03
27	---	.06	---	---	.03	.03	.03	---	.03
28	---	.05	---	---	.03	---	.03	---	.03
29	---	---	---	---	.03	---	.03	---	.03
30	---	---	---	---	.03	---	---	---	.03
31	0.05	---	---	---	.03	---	---	---	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

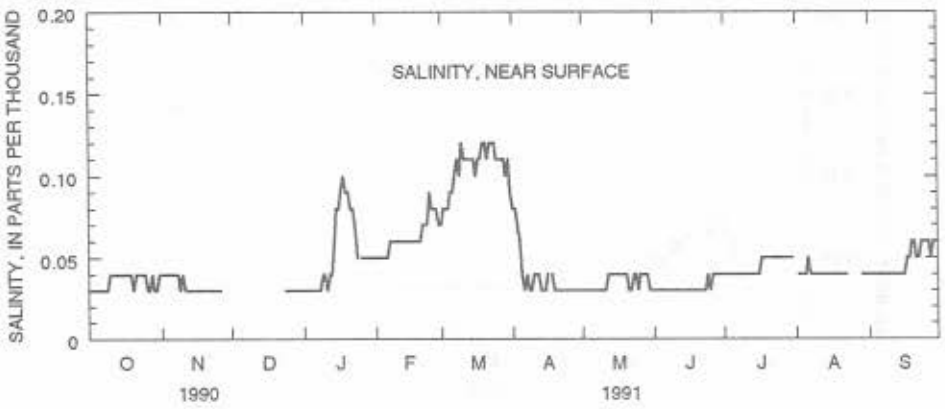
Salinity, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 0.13 ppt March 10, 19, 20, 23, 1991; minimum value recorded, 0.03 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.03	0.04	---	0.03	0.05	0.07	0.08	0.03	0.03	0.04	---	0.04
2	.03	.04	---	.03	.05	.08	.08	.03	.03	.04	0.04	.04
3	.03	.04	---	.03	.05	.08	.07	.03	.03	.04	.04	.04
4	.03	.04	---	.03	.05	.08	.06	.03	.03	.04	.04	.04
5	.03	.04	---	.03	.05	.09	.04	.03	.03	.04	.04	.04
6	.03	.04	---	.03	.05	.09	.03	.03	.03	.04	.05	.04
7	.03	.04	---	.03	.06	.10	.04	.03	.03	.04	.04	.04
8	.03	.04	---	.03	.06	.11	.03	.03	.03	.04	.04	.04
9	.03	.03	---	.04	.06	.10	.03	.03	.03	.04	.04	.04
10	.04	.04	---	.04	.06	.12	.04	.03	.03	.04	.04	.04
11	.04	.03	---	.03	.06	.11	.04	.03	.03	.04	.04	.04
12	.04	.03	---	.04	.06	.11	.04	.04	.03	.04	.04	.04
13	.04	.03	---	.04	.06	.11	.03	.04	.03	.04	.04	.04
14	.04	.03	---	.06	.06	.11	.03	.04	.03	.04	.04	.04
15	.04	.03	---	.08	.06	.11	.03	.04	.03	.04	.04	.04
16	.04	.03	---	.08	.06	.10	.04	.04	.03	.04	.04	.04
17	.04	.03	---	.09	.06	.11	---	.04	.03	.05	.04	.05
18	.04	.03	---	.10	.06	.11	.04	.04	.03	.05	.04	.05
19	.04	.03	---	.09	.06	.12	.03	.04	.03	.05	.04	.06
20	.03	.03	---	.09	.06	.12	.03	.04	.03	.05	.04	.06
21	.04	.03	---	.08	.07	.11	.03	.03	.03	.05	.04	.05
22	.04	.03	---	.08	.07	.12	.03	.03	.03	.05	.04	.05
23	.04	.03	---	.07	.07	.12	.03	.04	.03	.05	---	.06
24	.04	.03	0.03	.05	.09	.12	.03	.04	.04	.05	---	.06
25	.04	.03	.03	---	.08	.11	.03	.03	.03	.05	---	.06
26	.03	.03	.03	.05	.08	.11	.03	.04	.04	.05	---	.06
27	.03	---	.03	.05	.08	.11	.03	.04	.04	.05	---	.05
28	.04	---	.03	.05	.07	.11	.03	.04	.04	.05	---	.06
29	.03	---	.03	.05	---	.10	.03	.04	.04	.05	.04	.06
30	.03	---	.03	.05	---	.11	.03	.03	.04	.05	.04	.06
31	.04	---	.03	.05	---	.09	---	.03	---	---	.04	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

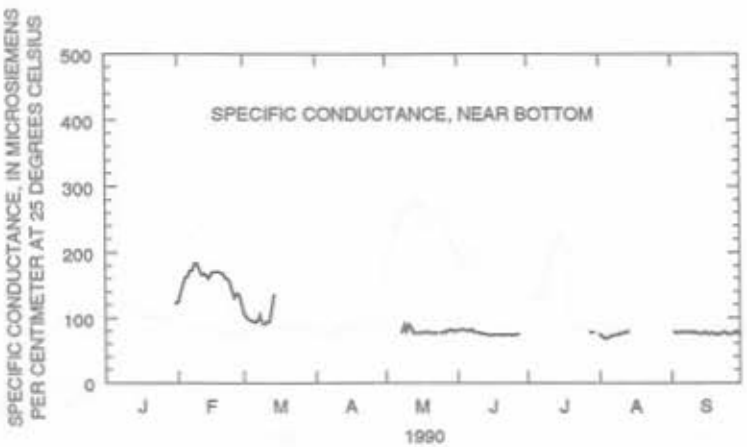
Specific Conductance, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 187 µS/cm February 8, 1990; minimum value recorded, 61 µS/cm August 2, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	125	108	---	---	81	---	74	---
2	---	137	103	---	---	82	---	71	78
3	---	151	98	---	---	82	---	67	77
4	---	162	96	---	---	81	---	68	77
5	---	162	94	---	---	80	---	70	78
6	---	172	93	---	---	81	---	72	78
7	---	173	97	---	---	82	---	73	78
8	---	183	105	---	78	78	---	74	78
9	---	183	91	---	89	78	---	74	77
10	---	173	90	---	80	77	---	76	78
11	---	165	95	---	89	76	---	77	77
12	---	167	94	---	83	75	---	77	76
13	---	163	111	---	77	75	---	79	76
14	---	160	134	---	77	74	---	---	76
15	---	167	---	---	77	73	---	---	78
16	---	170	---	---	78	74	---	---	75
17	---	170	---	---	77	74	---	---	76
18	---	170	---	---	78	74	---	---	77
19	---	169	---	---	79	74	---	---	74
20	---	167	---	---	77	73	75	---	75
21	---	161	---	---	77	74	---	---	74
22	---	161	---	---	77	74	---	---	76
23	---	154	---	---	77	74	---	---	78
24	---	143	---	---	---	73	---	---	77
25	---	131	---	---	77	74	---	---	74
26	---	137	---	---	79	74	---	---	75
27	---	134	---	---	78	75	---	---	76
28	---	124	---	---	81	---	78	---	77
29	---	---	---	---	82	---	78	---	78
30	---	---	---	---	80	---	---	---	74
31	123	---	---	---	80	---	---	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--**Continued**

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

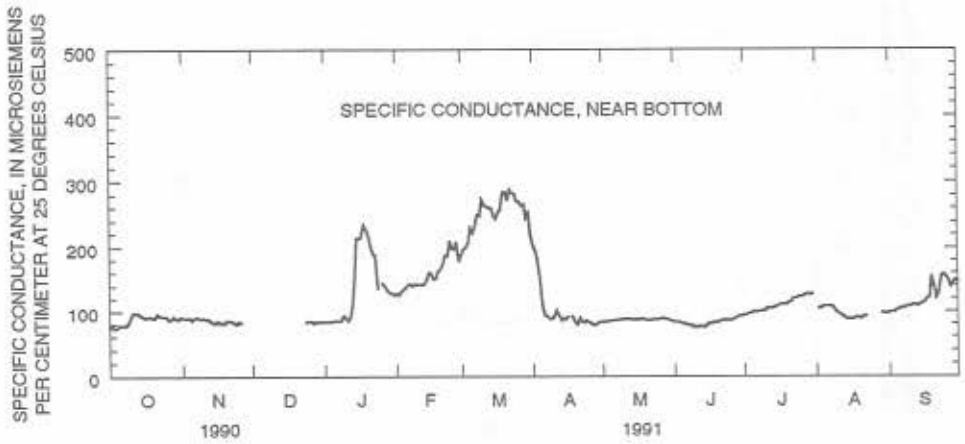
Specific Conductance, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 303 µS/cm March 22, 1991; minimum value recorded, 68 µS/cm April 20, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	76	90	---	83	128	189	203	83	83	94	---	99
2	76	89	---	83	125	197	193	83	83	95	104	99
3	74	89	---	83	131	200	180	84	82	97	104	99
4	74	90	---	84	134	207	148	84	81	97	107	102
5	78	86	---	84	138	229	110	85	80	100	107	103
6	78	89	---	85	142	222	94	85	79	99	108	104
7	78	91	---	84	143	231	92	86	78	100	108	105
8	78	89	---	85	140	250	87	86	78	100	106	106
9	82	88	---	93	143	248	88	87	75	101	101	107
10	92	89	---	90	142	272	92	88	76	102	97	108
11	98	87	---	85	142	264	101	87	75	104	95	109
12	98	88	---	91	142	262	94	88	76	104	93	109
13	97	84	---	109	144	261	85	87	76	105	89	108
14	94	82	---	156	149	259	89	86	75	106	87	111
15	92	81	---	213	160	248	87	87	79	108	88	112
16	90	84	---	213	159	244	91	86	81	109	87	113
17	91	81	---	215	151	255	---	88	81	110	88	120
18	92	82	---	234	153	258	92	88	82	110	91	121
19	90	81	---	227	162	284	82	86	82	111	89	154
20	89	85	---	216	165	284	79	86	83	113	88	140
21	96	85	---	202	174	271	89	85	85	115	92	121
22	93	84	---	189	187	287	83	86	86	120	92	128
23	93	82	---	188	186	283	82	87	85	120	---	154
24	92	80	83	136	209	282	85	87	86	122	---	157
25	92	83	84	---	198	271	82	87	85	123	---	154
26	86	82	84	144	197	269	80	88	87	123	---	148
27	87	---	81	139	207	263	78	89	89	126	---	139
28	92	---	83	134	178	265	79	87	91	127	---	145
29	89	---	83	129	---	246	81	87	93	126	98	149
30	87	---	83	128	---	255	83	85	93	127	97	146
31	91	---	83	125	---	219	---	84	---	---	96	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

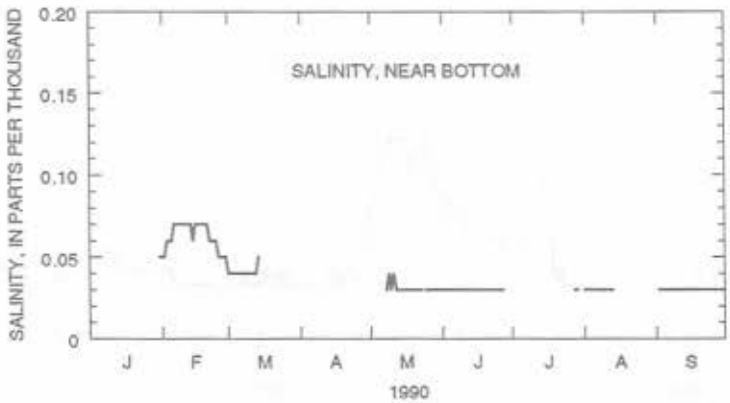
Salinity, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 0.07 ppt February 4-22, 1990; minimum value recorded, 0.02 ppt August 2, 3, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	0.05	0.04	---	---	0.03	---	0.03	---
2	---	.05	.04	---	---	.03	---	.03	0.03
3	---	.06	.04	---	---	.03	---	.03	.03
4	---	.06	.04	---	---	.03	---	.03	.03
5	---	.06	.04	---	---	.03	---	.03	.03
6	---	.07	.04	---	---	.03	---	.03	.03
7	---	.07	.04	---	---	.03	---	.03	.03
8	---	.07	.04	---	0.03	.03	---	.03	.03
9	---	.07	.04	---	.04	.03	---	.03	.03
10	---	.07	.04	---	.03	.03	---	.03	.03
11	---	.07	.04	---	.04	.03	---	.03	.03
12	---	.07	.04	---	.03	.03	---	.03	.03
13	---	.07	.04	---	.03	.03	---	.03	.03
14	---	.06	.05	---	.03	.03	---	---	.03
15	---	.07	---	---	.03	.03	---	---	.03
16	---	.07	---	---	.03	.03	---	---	.03
17	---	.07	---	---	.03	.03	---	---	.03
18	---	.07	---	---	.03	.03	---	---	.03
19	---	.07	---	---	.03	.03	---	---	.03
20	---	.07	---	---	.03	.03	0.03	---	.03
21	---	.06	---	---	.03	.03	---	---	.03
22	---	.06	---	---	.03	.03	---	---	.03
23	---	.06	---	---	.03	.03	---	---	.03
24	---	.06	---	---	---	.03	---	---	.03
25	---	.05	---	---	.03	.03	---	---	.03
26	---	.05	---	---	.03	.03	---	---	.03
27	---	.05	---	---	.03	.03	---	---	.03
28	---	.05	---	---	.03	---	.03	---	.03
29	---	---	---	---	.03	---	.03	---	.03
30	---	---	---	---	.03	---	---	---	.03
31	0.05	---	---	---	.03	---	---	---	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

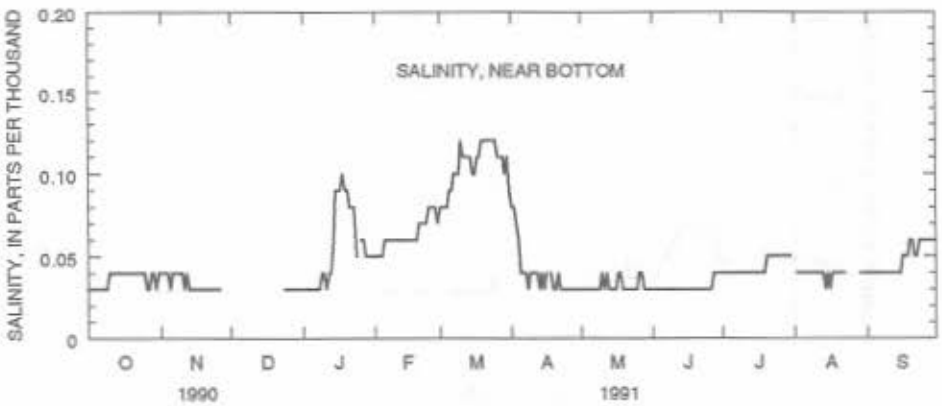
Salinity, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 0.13 ppt March 19-24, 1991; minimum value recorded, 0.03 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.03	0.04	---	0.03	0.05	0.08	0.08	0.03	0.03	0.04	---	0.04
2	.03	.04	---	.03	.05	.08	.08	.03	.03	.04	0.04	.04
3	.03	.04	---	.03	.05	.08	.07	.03	.03	.04	.04	.04
4	.03	.04	---	.03	.05	.08	.06	.03	.03	.04	.04	.04
5	.03	.03	---	.03	.06	.09	.04	.03	.03	.04	.04	.04
6	.03	.04	---	.03	.06	.09	.04	.03	.03	.04	.04	.04
7	.03	.04	---	.03	.06	.10	.04	.03	.03	.04	.04	.04
8	.03	.04	---	.03	.06	.10	.03	.03	.03	.04	.04	.04
9	.03	.04	---	.04	.06	.10	.04	.03	.03	.04	.04	.04
10	.04	.04	---	.04	.06	.12	.04	.04	.03	.04	.04	.04
11	.04	.03	---	.03	.06	.11	.04	.03	.03	.04	.04	.04
12	.04	.04	---	.04	.06	.11	.04	.04	.03	.04	.04	.04
13	.04	.03	---	.04	.06	.11	.03	.03	.03	.04	.04	.04
14	.04	.03	---	.06	.06	.11	.04	.03	.03	.04	.03	.04
15	.04	.03	---	.09	.06	.10	.03	.03	.03	.04	.04	.04
16	.04	.03	---	.09	.06	.10	.04	.03	.03	.04	.03	.05
17	.04	.03	---	.09	.06	.11	---	.04	.03	.04	.04	.05
18	.04	.03	---	.10	.06	.11	.04	.04	.03	.04	.04	.05
19	.04	.03	---	.09	.06	.12	.03	.03	.03	.04	.04	.06
20	.04	.03	---	.09	.07	.12	.03	.03	.03	.05	.04	.06
21	.04	.03	---	.08	.07	.12	.04	.03	.03	.05	.04	.05
22	.04	.03	---	.08	.07	.12	.03	.03	.03	.05	.04	.05
23	.04	.03	---	.08	.07	.12	.03	.03	.03	.05	---	.06
24	.04	.03	0.03	.05	.08	.12	.03	.03	.03	.05	---	.06
25	.04	.03	.03	---	.08	.12	.03	.03	.03	.05	---	.06
26	.03	.03	.03	.06	.08	.11	.03	.04	.03	.05	---	.06
27	.03	---	.03	.06	.08	.11	.03	.04	.04	.05	---	.06
28	.04	---	.03	.05	.07	.11	.03	.03	.04	.05	---	.06
29	.04	---	.03	.05	---	.10	.03	.03	.04	.05	.04	.06
30	.03	---	.03	.05	---	.11	.03	.03	.04	.05	.04	.06
31	.04	---	.03	.05	---	.09	---	.03	---	---	.04	---



DAILY MEAN SALINITY, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

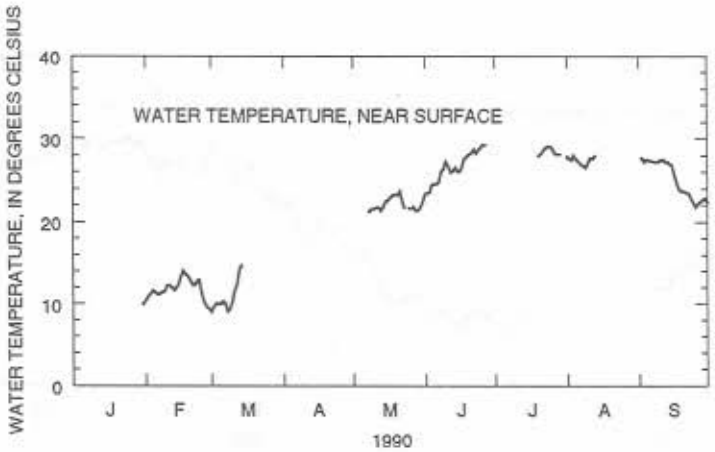
Water Temperature, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 31.1 °C August 11, 1990; minimum value recorded, 8.5 °C March 8, 1990.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.4	9.0	---	---	23.4	---	27.8	---
2	---	10.8	9.5	---	---	23.4	---	27.6	27.7
3	---	11.2	10.0	---	---	23.6	---	27.4	27.2
4	---	11.6	9.9	---	---	24.4	---	28.0	27.5
5	---	11.4	9.9	---	---	24.5	---	27.5	27.4
6	---	11.1	10.2	---	---	24.5	---	27.2	27.3
7	---	11.2	9.9	---	---	24.7	---	26.9	27.3
8	---	11.4	9.1	---	21.2	26.0	---	26.7	27.2
9	---	11.5	9.4	---	21.5	26.4	---	26.5	27.2
10	---	12.2	10.3	---	21.5	27.2	---	26.9	27.4
11	---	12.2	11.6	---	21.7	26.6	---	27.7	27.5
12	---	12.0	12.3	---	21.7	25.9	---	27.6	27.2
13	---	11.7	13.9	---	21.3	26.1	---	27.9	27.2
14	---	11.9	14.7	---	21.8	26.5	---	---	26.9
15	---	12.4	---	---	22.5	26.0	---	---	26.8
16	---	13.3	---	---	22.5	26.0	---	---	25.7
17	---	14.0	---	---	22.9	26.6	---	---	24.5
18	---	13.5	---	---	23.2	27.6	---	---	24.0
19	---	13.4	---	---	23.3	27.8	---	---	23.7
20	---	12.8	---	---	23.2	28.1	28.0	---	23.7
21	---	12.2	---	---	23.7	28.2	28.2	---	23.5
22	---	12.2	---	---	22.6	28.7	28.6	---	23.4
23	---	12.8	---	---	21.7	28.2	28.9	---	22.7
24	---	12.9	---	---	---	28.6	29.1	---	22.3
25	---	11.1	---	---	21.6	28.9	29.0	---	21.8
26	---	10.1	---	---	21.6	29.2	28.7	---	22.1
27	---	9.5	---	---	21.8	29.2	28.2	---	22.4
28	---	9.4	---	---	21.3	---	28.1	---	22.6
29	---	---	---	---	21.4	---	28.1	---	22.8
30	---	---	---	---	21.7	---	---	---	22.3
31	9.9	---	---	---	22.4	---	---	---	---



DAILY MEAN WATER TEMPERATURE, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

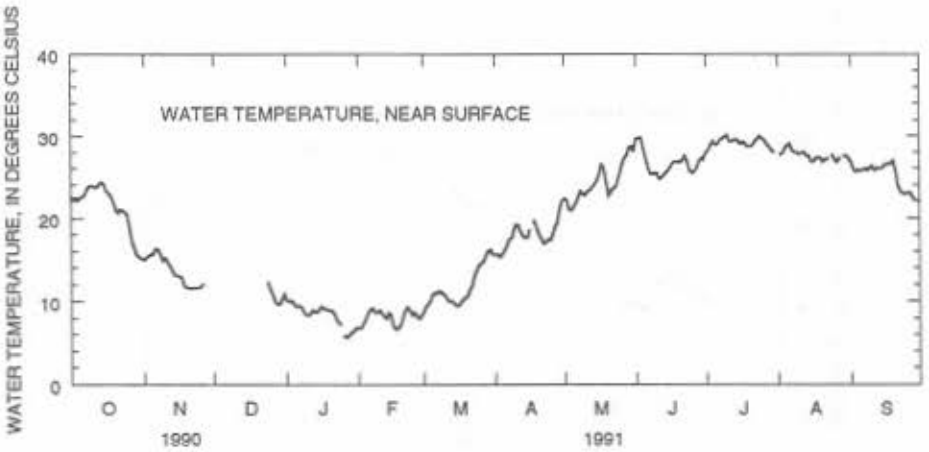
Water Temperature, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 32.0 °C July 9, 1991; minimum value recorded, 5.4 °C January 27, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22.3	14.9	---	10.0	6.7	8.7	15.5	22.2	29.5	28.0	---	26.8
2	22.3	15.2	---	9.9	6.8	9.2	15.6	22.0	29.7	28.2	27.7	25.8
3	22.3	15.4	---	10.0	7.3	9.6	15.3	21.0	29.7	28.8	27.9	25.5
4	22.1	15.6	---	9.8	7.8	10.1	15.6	20.9	28.6	29.3	28.5	25.8
5	22.4	15.7	---	9.3	8.5	10.8	16.0	21.2	27.2	28.9	28.8	25.6
6	22.5	16.3	---	9.4	8.9	10.8	16.5	21.8	26.4	28.9	29.0	25.8
7	22.9	16.2	---	9.4	9.1	11.0	17.4	22.3	25.3	29.5	28.2	25.9
8	23.5	15.6	---	8.8	8.6	11.1	17.5	23.1	25.2	29.5	27.9	25.7
9	23.8	14.8	---	8.4	8.6	10.8	18.4	22.8	25.4	29.9	27.9	26.0
10	23.8	15.1	---	8.3	8.8	10.8	19.2	22.6	25.3	30.1	27.7	26.2
11	23.7	14.6	---	8.4	8.5	10.2	19.1	23.1	24.7	29.3	27.9	25.7
12	23.7	14.2	---	8.8	8.1	9.9	18.4	23.3	24.8	29.3	28.0	26.0
13	24.1	13.7	---	8.7	7.9	9.9	17.8	23.6	25.2	29.4	27.4	25.9
14	24.3	13.1	---	8.6	8.5	9.8	17.6	24.0	25.5	29.5	27.4	25.9
15	24.0	13.1	---	8.9	8.3	9.4	17.6	24.5	25.8	29.2	26.8	26.3
16	23.3	12.9	---	9.3	7.0	9.4	18.5	25.1	26.3	29.0	26.8	26.5
17	22.9	12.8	---	9.0	6.6	9.8	---	26.4	26.7	29.2	27.1	26.5
18	22.6	12.0	---	9.0	6.8	10.1	19.7	26.2	26.8	28.9	27.3	26.6
19	21.9	11.6	---	8.8	7.0	10.3	18.9	24.5	26.8	28.7	27.2	26.9
20	20.9	11.6	---	8.8	8.0	10.6	18.0	22.6	26.7	28.7	26.8	25.5
21	20.6	11.5	---	8.7	8.8	11.3	17.4	23.0	27.0	28.9	27.0	23.9
22	21.0	11.6	---	8.1	9.2	11.9	16.9	23.5	27.4	29.3	27.1	23.1
23	20.8	11.6	---	7.6	8.8	13.0	17.0	23.7	26.8	29.5	---	22.9
24	20.7	11.6	12.2	7.3	8.3	13.6	17.4	24.4	25.8	29.9	27.5	22.8
25	20.3	11.6	11.5	---	8.5	14.2	17.3	25.4	25.4	29.6	27.1	23.0
26	18.6	12.0	10.7	5.8	8.2	14.4	18.1	26.4	25.5	29.4	26.8	23.0
27	17.1	---	9.9	5.6	7.9	14.8	18.9	27.2	26.1	29.0	27.1	22.5
28	16.3	---	9.6	5.9	8.1	15.5	19.5	27.6	26.8	28.7	---	22.1
29	15.6	---	9.6	6.2	---	16.0	20.9	28.5	27.2	28.3	27.4	22.0
30	15.2	---	10.1	6.5	---	16.1	22.0	28.7	27.0	28.0	27.4	22.0
31	15.0	---	10.8	6.8	---	15.6	---	28.0	---	---	27.1	---



DAILY MEAN WATER TEMPERATURE, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

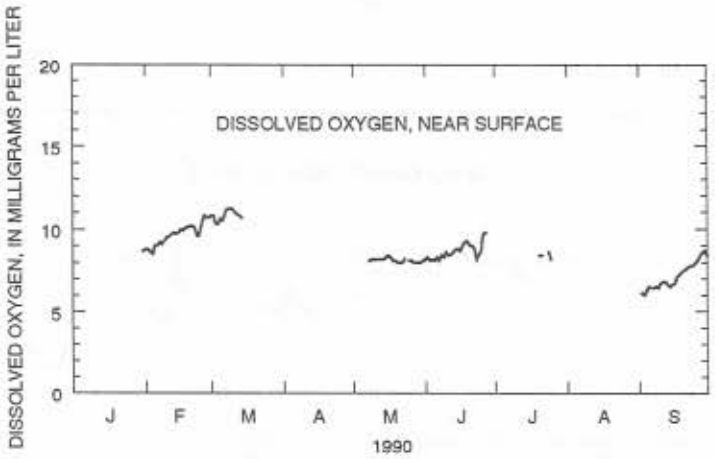
Dissolved Oxygen, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 11.9 mg/L June 27, 1990; minimum value recorded, 5.3 mg/L September 2, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	8.8	10.8	---	---	8.2	---	---	---
2	---	8.8	10.8	---	---	8.3	---	---	6.1
3	---	8.6	10.3	---	---	8.1	---	---	6.0
4	---	8.5	10.3	---	---	8.2	---	---	6.3
5	---	9.0	10.6	---	---	8.1	---	---	6.5
6	---	9.0	10.5	---	---	8.3	---	---	6.4
7	---	9.2	11.0	---	---	8.1	---	---	6.4
8	---	9.1	11.2	---	8.1	8.4	---	---	6.5
9	---	9.3	11.2	---	8.2	8.3	---	---	6.4
10	---	9.5	11.2	---	8.2	8.6	---	---	6.7
11	---	9.5	11.0	---	8.2	8.4	---	---	6.8
12	---	9.7	10.9	---	8.2	8.5	---	---	6.8
13	---	9.8	10.8	---	8.2	8.6	---	---	6.6
14	---	9.7	10.7	---	8.2	8.8	---	---	6.5
15	---	9.8	---	---	8.3	8.8	---	---	6.6
16	---	10.0	---	---	8.4	8.7	---	---	6.7
17	---	9.9	---	---	8.3	9.0	---	---	7.1
18	---	10.1	---	---	8.1	9.2	---	---	7.2
19	---	10.1	---	---	8.1	9.3	---	---	7.4
20	---	10.2	---	---	8.0	9.0	8.4	---	7.5
21	---	10.2	---	---	8.0	9.0	8.4	---	7.6
22	---	10.1	---	---	8.0	8.9	---	---	7.7
23	---	9.6	---	---	8.2	8.2	---	---	7.8
24	---	9.6	---	---	---	8.4	8.6	---	7.8
25	---	10.3	---	---	8.1	8.7	8.2	---	8.0
26	---	10.8	---	---	8.1	9.7	---	---	8.1
27	---	10.7	---	---	8.0	9.8	---	---	8.4
28	---	10.7	---	---	8.0	---	---	---	8.6
29	---	---	---	---	8.0	---	---	---	8.7
30	---	---	---	---	8.0	---	---	---	8.4
31	8.7	---	---	---	8.1	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

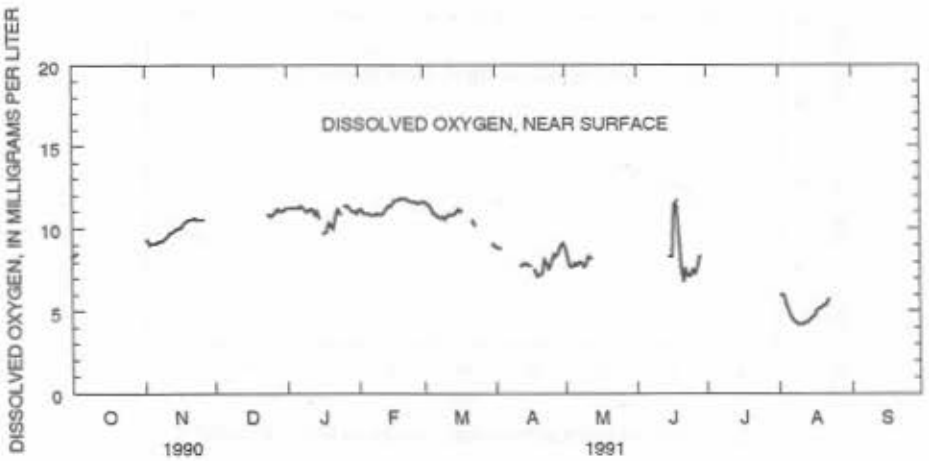
Dissolved Oxygen, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 13.2 mg/L June 16, 1991; minimum value recorded, 4.0 mg/L August 7, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.3	---	---	11.2	11.1	11.6	8.9	8.8	---	---	---	---
2	8.4	9.3	---	11.2	11.1	11.5	8.8	8.2	---	---	6.0	---
3	8.5	9.0	---	11.2	10.9	11.4	8.8	7.7	---	---	5.9	---
4	---	9.1	---	11.2	10.9	11.2	---	7.7	---	---	5.4b	---
5	---	9.1	---	11.2	10.9	10.9	---	7.9	---	---	5.0b	---
6	---	9.1	---	11.2	10.8	10.9	---	7.8	---	---	4.7b	---
7	---	9.2	---	11.3	10.8	10.7	---	8.0	---	---	4.4b	---
8	---	9.2	---	11.2	10.8	10.6	---	8.0	---	---	4.3b	---
9	---	9.3	---	11.0	10.9	10.7	---	7.7	---	---	4.2b	---
10	---	9.4	---	11.0	10.8	10.5	---	7.8	---	---	4.2b	---
11	---	9.6	---	11.1	10.8	10.7	---	8.3	---	---	4.2b	---
12	---	9.7	---	11.1	11.0	10.8	7.8	8.2	---	---	4.3b	---
13	---	9.8	---	10.8	11.2	10.8	7.9	---	---	---	4.3b	---
14	---	9.9	---	11.0	11.3	10.8	7.9	---	---	---	4.5b	---
15	---	10.0	---	10.6	11.3	11.0	7.8	---	8.3	---	4.6b	---
16	---	10.0	---	---	11.6	11.1	7.8	---	8.3	---	4.7b	---
17	---	10.1	---	9.7	11.7	11.0	---	---	11.3	---	5.0b	---
18	---	10.3	---	9.8	11.7	---	7.5	---	11.6	---	5.1b	---
19	---	10.4	---	10.3	11.8	---	7.1	---	9.8	---	5.2	---
20	---	10.5	---	10.1	11.8	---	7.2	---	7.7	---	5.3	---
21	---	10.5	---	10.0	11.8	---	7.3	---	6.8	---	5.4	---
22	---	10.6	---	10.8	11.7	10.4	8.1	---	7.5	---	5.7	---
23	---	10.5	---	11.1	11.6	10.2	7.9	---	7.1	---	---	---
24	---	10.5	10.8	10.9	11.6	---	7.6	---	7.1	---	---	---
25	---	10.5	10.7	---	11.6	---	7.9	---	7.5	---	---	---
26	---	10.5	10.8	11.3	11.5	---	8.4	---	7.3	---	---	---
27	---	---	11.0	11.3	11.5	---	8.3	---	7.8	---	---	---
28	---	---	11.1	11.2	11.6	---	8.5	---	8.3	---	---	---
29	---	---	11.0	11.0	---	---	8.9	---	---	---	---	---
30	---	---	11.0	11.0	---	---	9.1	---	7.6	---	---	---
31	---	---	11.1	10.9	---	9.0	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

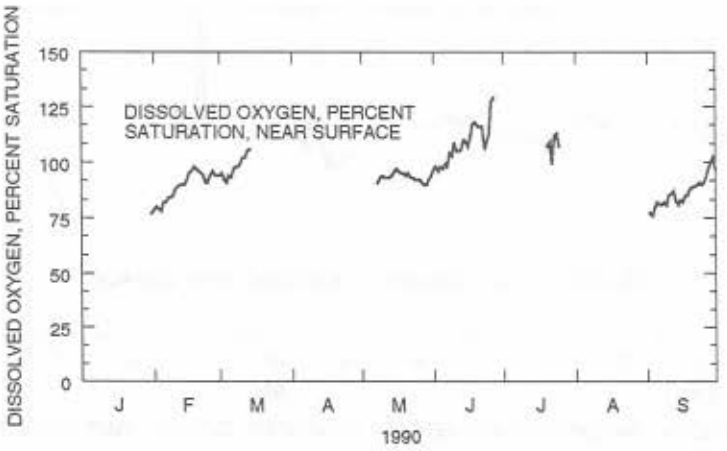
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 158 percent June 27, 1990; minimum value recorded, 68 percent September 2, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	79	94	---	---	97	---	---	---
2	---	80	95	---	---	98	---	---	77
3	---	79	92	---	---	96	---	---	76
4	---	78	91	---	---	98	---	---	80
5	---	82	94	---	---	97	---	---	82
6	---	82	93	---	---	99	---	---	81
7	---	84	97	---	---	98	---	---	81
8	---	84	98	---	91	104	---	---	82
9	---	85	98	---	93	103	---	---	81
10	---	88	100	---	94	109	---	---	85
11	---	89	102	---	93	105	---	---	86
12	---	90	102	---	93	105	---	---	87
13	---	90	105	---	93	106	---	---	83
14	---	90	106	---	94	110	---	---	81
15	---	92	---	---	96	109	---	---	83
16	---	95	---	---	97	107	---	---	82
17	---	96	---	---	96	112	---	---	85
18	---	98	---	---	95	117	---	---	85
19	---	97	---	---	95	118	---	---	88
20	---	96	---	---	94	116	107	---	89
21	---	95	---	---	95	116	109	---	89
22	---	94	---	---	93	116	---	---	90
23	---	91	---	---	93	106	---	---	91
24	---	91	---	---	---	109	113	---	90
25	---	94	---	---	92	113	107	---	91
26	---	96	---	---	92	127	---	---	93
27	---	94	---	---	91	129	---	---	97
28	---	94	---	---	90	---	---	---	100
29	---	---	---	---	90	---	---	---	102
30	---	---	---	---	92	---	---	---	97
31	77	---	---	---	94	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

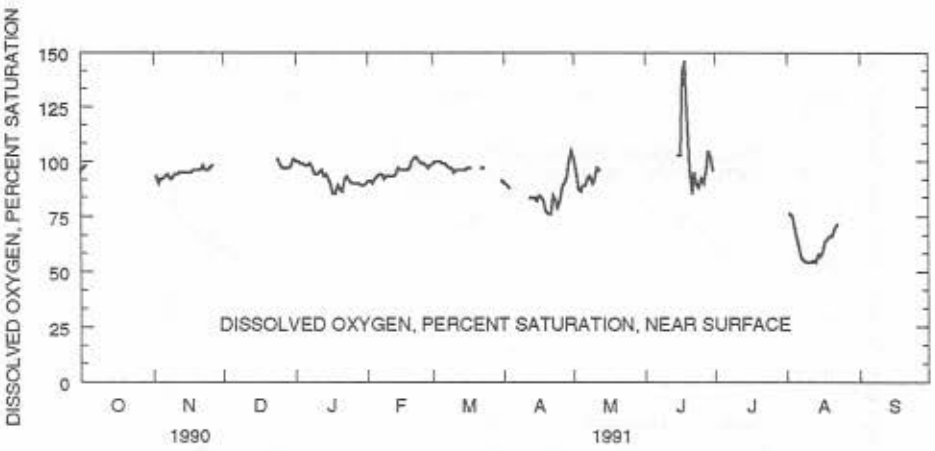
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--15 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 166 percent June 16, 1991; minimum value recorded, 52 percent August 7, 9, 10, 13, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	---	---	100	91	99	90	101	---	---	---	---
2	97	93	---	100	91	100	89	94	---	---	76	---
3	98	90	---	99	90	100	88	87	---	---	75	---
4	---	92	---	99	92	100	---	86	---	---	70	---
5	---	92	---	98	93	99	---	89	---	---	65	---
6	---	93	---	98	94	99	---	89	---	---	61	---
7	---	94	---	99	94	98	---	92	---	---	56	---
8	---	92	---	97	92	97	---	93	---	---	55	---
9	---	92	---	94	93	97	---	90	---	---	54	---
10	---	94	---	94	93	95	---	91	---	---	54	---
11	---	94	---	95	93	96	---	97	---	---	54	---
12	---	95	---	96	93	96	83	96	---	---	55	---
13	---	95	---	93	94	96	83	---	---	---	54	---
14	---	95	---	94	97	96	83	---	---	---	58	---
15	---	95	---	92	96	96	82	---	103	---	57	---
16	---	95	---	---	96	97	84	---	103	---	59	---
17	---	95	---	85	96	97	---	---	141	---	63	---
18	---	96	---	85	96	---	82	---	146	---	65	---
19	---	96	---	89	97	---	77	---	122	---	66	---
20	---	96	---	87	100	---	76	---	97	---	66	---
21	---	96	---	86	102	---	76	---	85	---	69	---
22	---	98	---	92	102	97	84	---	95	---	71	---
23	---	96	---	93	100	97	82	---	89	---	---	---
24	---	96	101	91	99	---	79	---	88	---	---	---
25	---	97	99	---	99	---	82	---	92	---	---	---
26	---	98	97	90	98	---	89	---	90	---	---	---
27	---	---	97	90	97	---	90	---	96	---	---	---
28	---	---	97	90	98	---	93	---	105	---	---	---
29	---	---	97	89	---	---	100	---	---	---	---	---
30	---	---	98	89	---	---	105	---	96	---	---	---
31	---	---	101	90	---	91	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

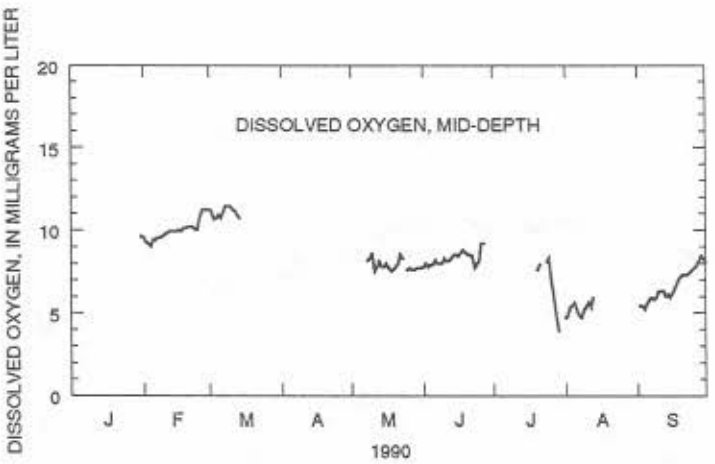
Dissolved Oxygen, Mid-Depth

Sensor Position.--10.5 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.4 mg/L June 26, 1990; minimum value recorded, 2.8 mg/L July 29, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	9.5	11.2	---	---	7.8	---	4.7b	---
2	---	9.3	11.1	---	---	8.0	---	4.8b	5.4b
3	---	9.2	10.6	---	---	7.8	---	5.3b	5.4
4	---	9.0	10.7	---	---	7.9	---	5.4b	5.2b
5	---	9.4	10.9	---	---	7.9	---	5.6	5.5
6	---	9.4	10.7	---	---	8.2	---	5.1b	5.8
7	---	9.5	11.1	---	---	8.0	---	4.8b	5.9
8	---	9.5	11.4	---	8.2	8.0	---	4.7b	5.8
9	---	9.6	11.4	---	8.3	8.0	---	5.2b	5.9
10	---	9.7	11.4	---	8.6	8.3	---	5.3	6.3
11	---	9.8	11.2	---	7.5	8.1	---	5.6	6.3
12	---	9.9	11.1	---	7.8	8.2	---	5.3b	6.3
13	---	9.9	10.9	---	8.1	8.3	---	5.9b	6.0
14	---	9.9	10.7	---	7.8	8.5	---	---	6.1
15	---	9.9	---	---	7.8	8.5	---	---	5.9
16	---	10.0	---	---	8.0	8.4	---	---	6.2
17	---	9.9	---	---	7.7	8.6	---	---	6.5
18	---	10.1	---	---	7.5	8.8	---	---	6.8
19	---	10.1	---	---	7.6	8.6	---	---	7.1
20	---	10.2	---	---	7.8	8.5	7.6	---	7.3
21	---	10.2	---	---	8.0	8.5	7.9	---	7.3
22	---	10.2	---	---	8.5	8.4	---	---	7.3
23	---	10.0	---	---	8.3	7.7	---	---	7.4
24	---	10.0	---	---	---	7.9	8.1	---	7.5
25	---	10.7	---	---	7.6	8.2	8.3	---	7.7
26	---	11.2	---	---	7.7	9.2	6.9	---	7.8
27	---	11.2	---	---	7.6	9.2	6.2	---	8.1
28	---	11.2	---	---	7.6	---	4.9b	---	8.4
29	---	---	---	---	7.7	---	3.9b	---	8.3
30	---	---	---	---	7.7	---	---	---	8.1
31	9.6	---	---	---	7.7	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

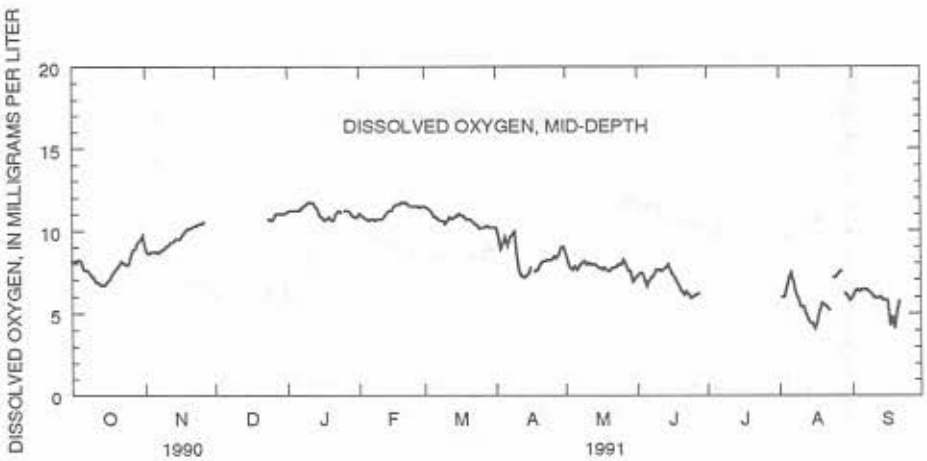
Dissolved Oxygen, Mid-Depth

Sensor Position.--10.5 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 15.3 mg/L October 31, 1990; minimum value recorded, 3.6 mg/L September 19, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.1	8.9	---	11.1	11.0	11.5	10.2	8.6	7.2	---	---	5.9
2	8.1	8.6	---	11.2	10.9	11.4	9.6	8.0	7.4	---	6.0	6.3
3	8.2	8.6	---	11.2	10.8	11.3	8.9	7.7	7.4	---	6.0	6.4
4	8.2	8.7	---	11.2	10.7	11.1	9.2	7.6	7.0	---	6.5	6.3
5	8.1	8.7	---	11.2	10.6	10.9	9.6	7.8	6.6	---	7.1	6.4
6	7.6	8.7	---	11.2	10.7	10.8	9.1	7.6	6.9	---	7.4	6.4
7	7.6	8.6	---	11.3	10.7	10.7	9.6	7.8	7.1	---	6.8	6.4
8	7.5	8.8	---	11.5	10.6	10.6	9.8	8.0	7.3	---	6.1	6.3
9	7.3	8.8	---	11.6	10.7	10.6	9.9	8.1	7.6	---	5.9	6.2
10	7.1	9.0	---	11.7	10.7	10.4	8.3	7.9	7.6	---	5.4b	6.0
11	6.9	9.1	---	11.7	10.7	10.6	7.5	8.0	7.5	---	5.4b	5.9
12	6.8	9.3	---	11.7	10.9	10.8	7.2	7.9	7.6	---	5.1b	5.9
13	6.7	9.3	---	11.5	11.1	10.7	7.1	7.9	7.7	---	4.7b	6.0
14	6.7	9.5	---	11.3	11.2	10.8	7.2	7.9	7.9	---	4.4b	5.8
15	6.7	9.5	---	10.9	11.2	10.9	7.4	7.7	7.6	---	4.4b	5.8
16	6.9	9.5	---	10.8	11.5	11.0	7.7	7.7	7.3	---	4.1b	5.8b
17	7.0	9.7	---	10.6	11.6	10.9	---	7.6	7.1	---	4.4b	4.3b
18	7.3	9.9	---	10.7	11.6	10.9	7.5	7.7	6.8	---	5.1b	4.8b
19	7.5	10.1	---	10.8	11.7	10.7	7.6	7.5	6.6	---	5.6	4.1b
20	7.7	10.1	---	10.6	11.7	10.7	7.9	7.5	6.3	---	5.5	5.2b
21	7.9	10.2	---	10.6	11.7	10.7	8.1	7.7	6.1	---	5.4	5.7
22	8.1	10.3	---	11.0	11.6	10.5	8.1	7.7	6.3	---	5.2b	---
23	8.0	10.3	---	11.2	11.5	10.4	8.2	7.8	6.1	---	---	---
24	7.9	10.4	10.7	11.1	11.5	10.3	8.2	7.9	5.9	---	7.1	---
25	7.9	10.4	10.6	---	11.5	10.1	8.2	7.9	6.0	---	7.1	---
26	8.5	10.5	10.7	11.2	11.5	10.2	8.4	8.2	6.1	---	7.4	---
27	8.8	---	11.0	11.2	11.4	10.2	8.3	7.9	6.2	---	7.5	---
28	8.9	---	11.0	11.1	11.5	10.3	8.5	7.5	---	---	---	---
29	9.3	---	11.0	10.9	---	10.2	8.9	7.5	---	---	6.2	---
30	9.4	---	11.0	10.8	---	10.2	9.0	6.9	---	---	6.0	---
31	9.7	---	11.0	10.8	---	10.2	---	7.0	---	---	5.8	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

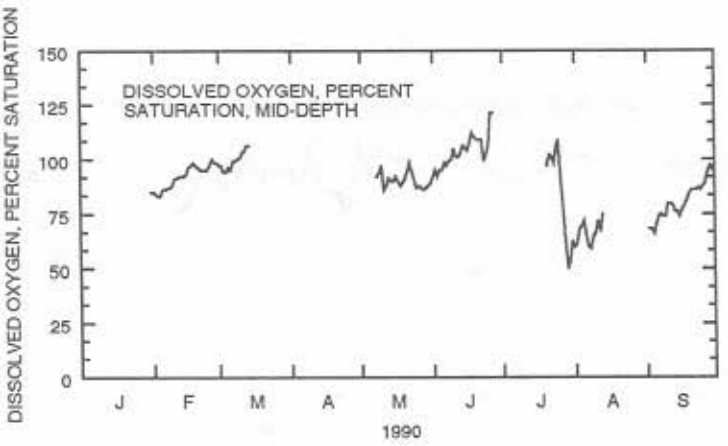
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--10.5 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 165 percent June 26, 1990; minimum value recorded, 37 percent July 29, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	85	97	---	---	92	---	60	---
2	---	84	97	---	---	95	---	61	68
3	---	83	94	---	---	92	---	68	68
4	---	83	94	---	---	95	---	69	66
5	---	86	96	---	---	95	---	72	70
6	---	86	95	---	---	98	---	65	74
7	---	87	99	---	---	97	---	60	75
8	---	87	99	---	92	99	---	59	74
9	---	88	100	---	94	100	---	65	74
10	---	91	101	---	97	105	---	66	80
11	---	91	103	---	86	101	---	72	80
12	---	92	104	---	88	101	---	67	79
13	---	92	106	---	91	103	---	75	76
14	---	92	106	---	90	106	---	---	76
15	---	93	---	---	90	105	---	---	74
16	---	96	---	---	92	104	---	---	77
17	---	97	---	---	90	108	---	---	79
18	---	98	---	---	88	112	---	---	81
19	---	97	---	---	89	110	---	---	84
20	---	96	---	---	91	109	97	---	86
21	---	95	---	---	95	109	102	---	86
22	---	95	---	---	98	109	---	---	86
23	---	95	---	---	94	99	---	---	87
24	---	95	---	---	---	102	106	---	86
25	---	97	---	---	87	106	109	---	88
26	---	100	---	---	88	121	90	---	89
27	---	98	---	---	87	121	80	---	94
28	---	98	---	---	86	---	63	---	97
29	---	---	---	---	87	---	50	---	96
30	---	---	---	---	88	---	---	---	93
31	85	---	---	---	89	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

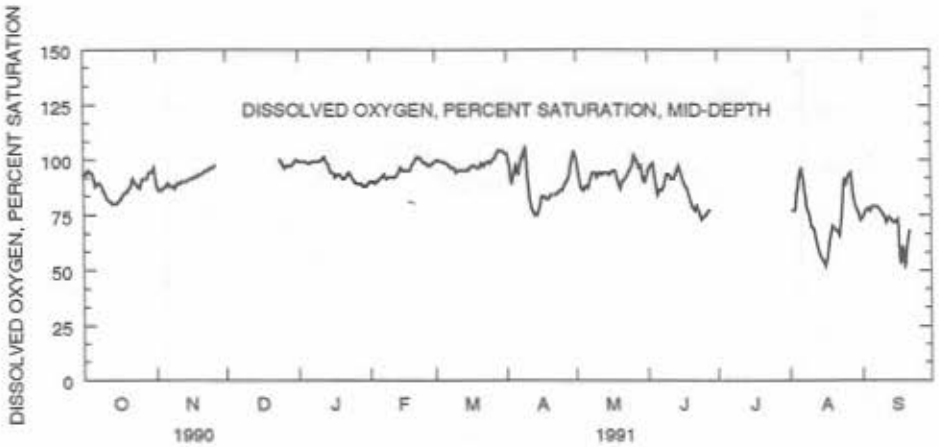
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--10.5 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 152 percent October 31, 1990; minimum value recorded, 45 percent August 16, September 19, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	93	88	---	99	90	99	103	100	95	---	---	74
2	93	86	---	99	90	100	97	92	97	---	77	77
3	95	86	---	99	89	99	89	87	98	---	77	78
4	94	87	---	99	90	99	93	86	91	---	85	77
5	93	88	---	98	91	98	97	88	84	---	93	79
6	88	89	---	98	92	98	93	87	86	---	96	79
7	89	88	---	99	93	97	100	90	86	---	88	79
8	89	88	---	99	91	96	103	94	89	---	78	78
9	87	87	---	99	92	96	106	94	93	---	76	76
10	84	89	---	99	92	94	90	92	93	---	70	75
11	82	89	---	100	92	95	81	94	91	---	69	72
12	81	90	---	101	92	95	77	93	91	---	65	74
13	80	90	---	99	94	95	75	94	94	---	60	73
14	80	90	---	97	96	95	75	94	97	---	56	72
15	80	91	---	94	95	95	78	93	94	---	55	72
16	81	91	---	94	95	96	83	94	90	---	52	73
17	82	92	---	92	95	97	---	95	88	---	55	53
18	84	92	---	93	95	97	82	95	86	---	64	61
19	85	93	---	93	97	96	82	90	82	---	70	51
20	86	93	---	91	99	96	84	87	79	---	69	63
21	88	94	---	91	101	98	84	90	77	---	68	68
22	91	95	---	93	101	97	84	91	79	---	66	---
23	89	95	---	94	100	98	85	93	76	---	---	---
24	88	96	100	92	98	99	86	95	73	---	91	---
25	87	96	98	---	98	98	86	97	74	---	89	---
26	91	97	96	89	97	100	89	102	75	---	93	---
27	91	---	97	89	97	101	90	100	77	---	94	---
28	91	---	97	89	98	104	93	96	---	---	---	---
29	94	---	97	88	---	104	99	97	---	---	79	---
30	94	---	98	88	---	104	104	90	---	---	76	---
31	96	---	100	89	---	103	---	90	---	---	73	---



DISSOLVED OXYGEN, PERCENT SATURATION, CHO WAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

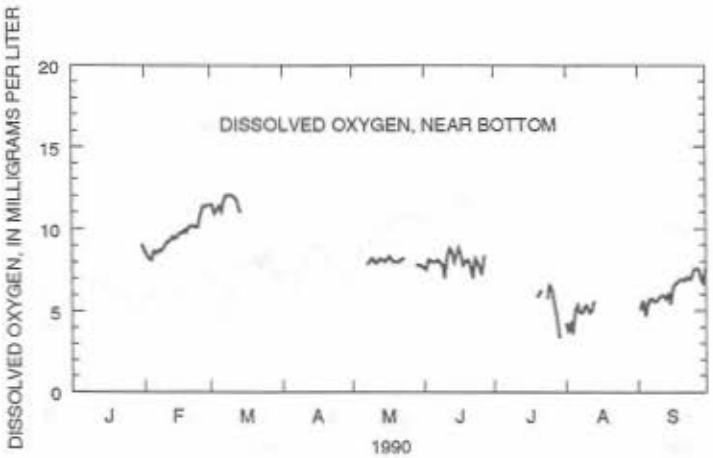
Dissolved Oxygen, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.2 mg/L March 8, 10, 1990; minimum value recorded, 2.4 mg/L July 29, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	8.6	11.4	---	---	7.6	---	4.2b	---
2	---	8.4	11.4	---	---	7.5	---	3.8b	5.1b
3	---	8.2	10.9	---	---	8.1	---	4.2b	5.6
4	---	8.1	11.1	---	---	8.0	---	3.6b	4.7b
5	---	8.6	11.3	---	---	8.0	---	5.0b	5.3b
6	---	8.5	11.0	---	---	8.0	---	5.3b	5.7b
7	---	8.7	11.7	---	---	8.1	---	4.9b	5.7b
8	---	8.6	12.0	---	7.9	7.9	---	4.9b	5.5b
9	---	8.8	12.0	---	8.1	7.8	---	5.2b	5.6b
10	---	9.1	12.0	---	8.2	7.0b	---	5.3b	5.8b
11	---	9.2	11.9	---	7.9	8.3	---	4.9b	5.9
12	---	9.3	11.8	---	8.0	8.8	---	5.0b	5.9
13	---	9.5	11.5	---	8.2	8.6	---	5.5b	5.7b
14	---	9.4	11.0	---	8.1	8.0	---	---	6.0
15	---	9.5	---	---	8.0	8.4	---	---	5.4b
16	---	9.7	---	---	8.1	8.8	---	---	6.4
17	---	9.7	---	---	8.3	8.3	---	---	6.6
18	---	9.9	---	---	8.1	7.8	---	---	6.7
19	---	9.8	---	---	8.0	8.0	---	---	6.9
20	---	10.1	---	---	8.0	8.1	5.9	---	6.9
21	---	10.2	---	---	8.0	7.8	6.2	---	6.8
22	---	10.2	---	---	8.1	7.0	---	---	7.0
23	---	10.1	---	---	8.2	8.2	---	---	6.9
24	---	10.1	---	---	---	8.0	5.8b	---	7.0
25	---	10.8	---	---	---	7.6	6.6	---	7.5
26	---	11.3	---	---	---	7.2	6.2	---	7.5
27	---	11.3	---	---	---	8.3	5.5	---	7.5
28	---	11.4	---	---	---	---	4.6b	---	6.9
29	---	---	---	---	7.8	---	3.4b	---	6.7
30	---	---	---	---	7.8	---	---	---	7.5
31	9.0	---	---	---	7.7	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

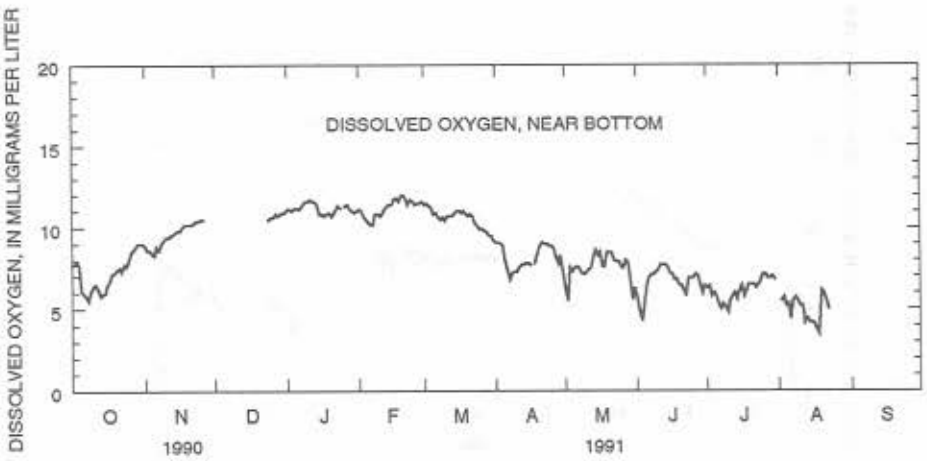
Dissolved Oxygen, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 12.1 mg/L February 20, 1991; minimum value recorded, 1.8 mg/L August 18, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.7	8.8	---	11.1	11.1	11.4	9.1	6.2	5.7b	6.3b	---	---
2	7.7	8.6	---	11.1	11.0	11.5	9.1	5.5b	4.8b	6.4b	5.5b	---
3	7.9	8.6	---	11.0	10.7	11.3	9.0	7.5	4.3b	5.8b	5.7	---
4	7.6	8.4	---	11.1	10.5	11.2	8.9	7.3	5.3b	6.0b	5.2b	---
5	6.1b	8.3	---	11.2	10.3	10.8	8.0	7.5	6.5	5.8b	5.3b	---
6	5.9	8.8	---	11.1	10.2	10.9	7.4	7.6	6.9	5.3b	4.4b	---
7	5.7	8.6	---	11.2	10.2	10.7	6.8	7.5	7.1	5.0b	5.5b	---
8	5.5	9.0	---	11.5	10.8	10.5	7.2	7.2	7.1	5.3b	5.7b	---
9	6.1	9.2	---	11.6	10.8	10.6	7.3	7.1	7.3	5.1b	5.5b	---
10	6.4	9.4	---	11.6	10.7	10.4	7.3	7.2	7.4	4.8b	5.2b	---
11	6.5	9.4	---	11.7	10.8	10.7	7.5	7.4	7.7	5.5b	5.2b	---
12	6.2	9.5	---	11.6	11.1	10.7	7.7	7.5	7.7	5.8b	4.2b	---
13	5.8	9.6	---	11.6	11.3	10.7	7.7	8.1	7.7	6.0	4.4b	---
14	5.9	9.7	---	11.3	11.4	10.8	7.8	8.6	7.5	5.6b	4.2b	---
15	6.0	9.8	---	10.8	11.4	11.0	7.8	8.3	7.2	6.2b	4.2b	---
16	6.5	9.8	---	10.8	11.7	11.0	7.7	8.5	7.1	6.4	4.1b	---
17	6.7	10.0	---	10.7	11.8	10.9	---	7.6	6.8	5.8b	3.8b	---
18	7.1	10.2	---	10.8	11.6	11.0	7.8	7.6	6.8	6.2b	3.5a	---
19	7.2	10.2	---	10.9	11.9	10.8	8.4	8.5	6.5	6.5	6.1b	---
20	7.4	10.2	---	10.7	12.0	10.7	8.9	8.5	6.4	6.5	6.0	---
21	7.5	10.2	---	10.8	11.7	10.8	9.1	8.5	6.1b	6.5	5.6b	---
22	7.3	10.3	---	11.1	11.4	10.7	9.0	8.0	5.8b	6.3	5.0b	---
23	7.7	10.4	---	11.3	11.7	10.3	9.0	7.9	6.9	6.5	---	---
24	7.6	10.4	10.5	11.2	11.6	10.1	8.9	7.9	6.9	6.7	---	---
25	7.9	10.5	10.6	---	11.4	9.9	8.9	7.6	6.9	7.1	---	---
26	8.5	10.5	10.6	11.3	11.5	9.9	8.7	7.5	7.1	7.1	---	---
27	8.6	---	10.8	11.4	11.5	9.8	8.2	8.0	7.0	6.9	---	---
28	8.8	---	10.7	11.1	11.6	9.7	7.8	7.8	6.5	6.9	---	---
29	9.0	---	10.8	11.0	---	9.5	8.3	6.8	6.0b	7.0	---	---
30	9.0	---	10.9	10.9	---	9.5	7.3	5.6b	6.4	6.8	---	---
31	9.0	---	10.9	11.0	---	9.2	---	6.3	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

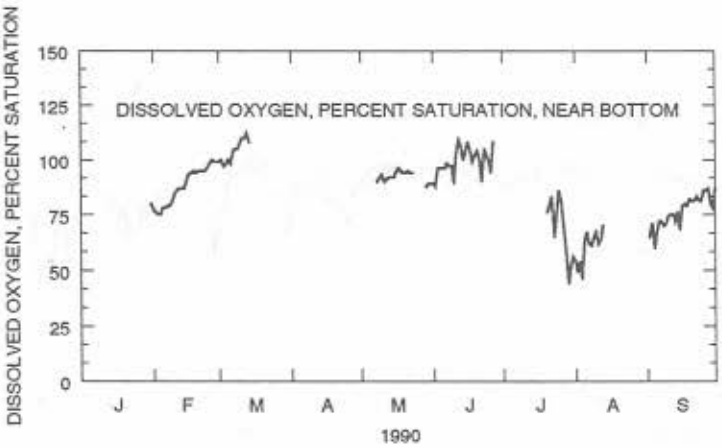
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 149 percent June 27, 1990; minimum value recorded, 32 percent July 29, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	77	99	---	---	89	---	54	---
2	---	76	100	---	---	88	---	49	65
3	---	75	97	---	---	96	---	54	71
4	---	75	98	---	---	96	---	46	60
5	---	78	100	---	---	96	---	63	67
6	---	78	98	---	---	96	---	67	72
7	---	79	104	---	---	98	---	62	72
8	---	79	105	---	90	97	---	61	70
9	---	81	105	---	92	97	---	65	71
10	---	85	108	---	93	89	---	67	74
11	---	86	110	---	90	103	---	62	75
12	---	87	110	---	91	109	---	64	75
13	---	87	112	---	92	107	---	70	72
14	---	87	108	---	92	100	---	---	76
15	---	90	---	---	92	104	---	---	68
16	---	93	---	---	94	108	---	---	79
17	---	94	---	---	96	104	---	---	80
18	---	95	---	---	95	99	---	---	79
19	---	94	---	---	94	102	---	---	82
20	---	95	---	---	94	104	76	---	81
21	---	95	---	---	95	101	80	---	81
22	---	95	---	---	94	90	---	---	83
23	---	95	---	---	94	105	---	---	81
24	---	96	---	---	---	103	76	---	81
25	---	98	---	---	---	99	86	---	86
26	---	100	---	---	---	94	81	---	86
27	---	99	---	---	---	108	71	---	87
28	---	99	---	---	---	---	59	---	80
29	---	---	---	---	88	---	44	---	78
30	---	---	---	---	89	---	---	---	87
31	80	---	---	---	89	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 5

Table 5.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 2, Chowan River at light 5, January 1990-September 1991*--Continued

[Location of site 2 is latitude 36°10'02", longitude 76°44'38", Bertie County; U.S. Geological Survey downstream order number 0205363590]

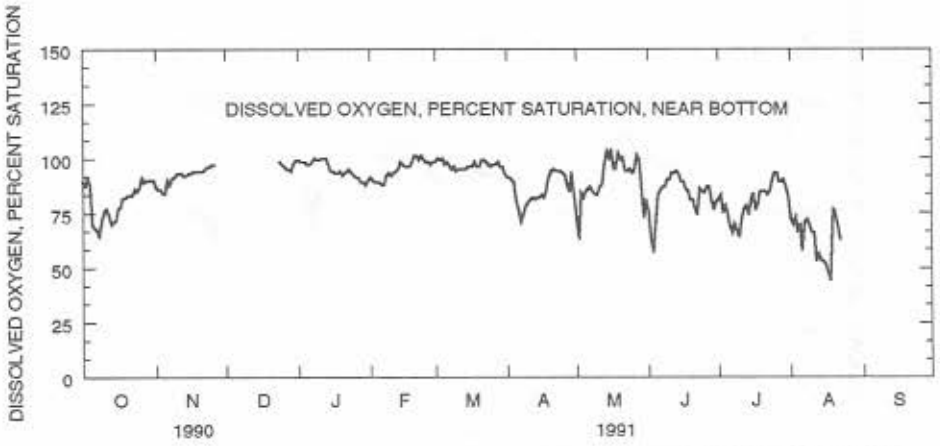
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991--Maximum value recorded, 106 percent March 21, 1991; minimum value recorded, 22 percent August 18, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	89	87	---	99	91	98	91	72	76	81	---	---
2	88	86	---	98	90	100	91	63	64	83	70	---
3	91	86	---	98	89	99	90	84	57	75	73	---
4	88	84	---	98	89	100	89	82	69	78	67	---
5	70	84	---	97	89	97	81	85	83	75	69	---
6	68	90	---	97	88	98	76	86	85	69	58	---
7	67	88	---	98	88	97	71	87	87	66	71	---
8	64	91	---	100	92	95	75	85	87	70	72	---
9	72	91	---	99	93	96	78	83	90	67	70	---
10	76	93	---	99	92	94	80	83	90	64	66	---
11	77	93	---	100	93	95	81	87	93	72	66	---
12	74	93	---	100	94	95	82	88	93	77	53	---
13	70	92	---	100	95	95	81	96	94	78	56	---
14	71	92	---	97	98	95	82	103	92	74	53	---
15	72	93	---	94	97	96	82	100	89	81	53	---
16	77	93	---	94	96	96	83	104	89	84	51	---
17	78	94	---	93	96	96	---	95	86	76	48	---
18	82	94	---	93	96	98	85	95	85	80	44	---
19	82	94	---	94	98	96	91	102	81	85	77	---
20	83	94	---	92	101	96	94	99	81	85	75	---
21	83	94	---	93	101	99	95	100	76	85	70	---
22	83	95	---	94	99	99	94	94	74	83	63	---
23	86	96	---	95	101	98	94	94	86	85	---	---
24	85	96	98	93	99	97	94	95	85	89	---	---
25	87	97	97	---	98	96	93	93	84	93	---	---
26	91	97	96	91	98	97	92	94	87	93	---	---
27	89	---	95	91	97	97	88	101	87	89	---	---
28	90	---	95	89	98	98	85	99	81	89	---	---
29	90	---	94	89	---	96	93	88	76	90	---	---
30	90	---	97	88	---	96	83	73	80	87	---	---
31	90	---	99	90	---	93	---	81	---	82	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER AT LIGHT 5

Table 6.--*Five-day mean water temperature and dissolved-oxygen values in water at site 2, Chowan River at light 5, January 1990-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/30/89-01/03/90	---	---	---	---	---	---	---	---
01/04/90-01/08/90	---	---	---	---	---	---	---	---
01/09/90-01/13/90	---	---	---	---	---	---	---	---
01/14/90-01/18/90	---	---	---	---	---	---	---	---
01/19/90-01/23/90	---	---	---	---	---	---	---	---
01/24/90-01/28/90	---	---	---	---	---	---	---	---
01/29/90-02/02/90	10.4	10.3	8.9	8.7	9.5	9.4	8.9	8.6
02/03/90-02/07/90	11.4	11.3	8.9	8.9	9.3	9.3	8.4	8.5
02/08/90-02/12/90	12.0	11.8	9.4	9.5	9.7	9.8	9.0	9.1
02/13/90-02/17/90	12.8	12.8	9.8	9.9	9.9	10.0	9.6	9.6
02/18/90-02/22/90	12.9	12.7	10.2	10.1	10.2	10.1	10.1	10.1
02/23/90-02/27/90	11.3	10.8	10.2	10.3	10.6	10.7	10.7	10.9
02/28/90-03/04/90	9.7	9.4	10.6	10.6	10.9	10.9	11.2	11.2
03/05/90-03/09/90	9.8	9.7	10.9	11.0	11.1	11.1	11.6	11.7
03/10/90-03/14/90	12.8	13.0	10.9	10.8	11.1	10.9	11.6	11.4
03/15/90-03/19/90	14.8	---	10.4	---	10.3	---	10.5	---
03/20/90-03/24/90	---	---	---	---	---	---	---	---
03/25/90-03/29/90	---	---	---	---	---	---	---	---
03/30/90-04/03/90	---	---	---	---	---	---	---	---
04/04/90-04/08/90	---	---	---	---	---	---	---	---
04/09/90-04/13/90	---	---	---	---	---	---	---	---
04/14/90-04/18/90	---	---	---	---	---	---	---	---
04/19/90-04/23/90	---	---	---	---	---	---	---	---
04/24/90-04/28/90	---	---	---	---	---	---	---	---
04/29/90-05/03/90	---	---	---	---	---	---	---	---
05/04/90-05/08/90	21.8	21.0	8.2	8.1	8.2	8.2	7.9	8.0
05/09/90-05/13/90	21.7	21.4	8.2	8.2	8.1	7.9	8.1	8.0
05/14/90-05/18/90	22.9	22.5	8.3	8.2	7.7	7.7	8.1	8.1
05/19/90-05/23/90	23.0	22.5	8.1	8.1	8.0	8.1	8.1	8.1
05/24/90-05/28/90	21.7	21.4	8.0	8.0	7.7	7.6	7.9	7.8
05/29/90-06/02/90	22.7	22.6	8.2	8.1	7.8	7.7	7.6	7.8
06/03/90-06/07/90	24.7	24.4	8.2	8.1	8.0	7.9	8.0	8.2
06/08/90-06/12/90	26.6	26.2	8.5	8.4	8.2	8.1	8.0	8.0
06/13/90-06/17/90	26.6	26.2	8.8	8.8	8.5	8.4	8.3	8.5
06/18/90-06/22/90	28.5	27.8	9.2	8.8	8.6	8.3	7.7	7.8

Table 6.--*Five-day mean water temperature and dissolved-oxygen values in water at site 2, Chowan River at light 5, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/23/90-06/27/90	29.0	28.7	9.1	9.0	8.6	8.5	7.9	8.0
06/28/90-07/02/90	28.8	---	8.9	---	8.4	---	8.6	---
07/03/90-07/07/90	---	---	---	---	---	---	---	---
07/08/90-07/12/90	---	---	---	---	---	---	---	---
07/13/90-07/17/90	---	---	---	---	---	---	---	---
07/18/90-07/22/90	28.5	28.1	8.8	7.7	8.0	7.6	6.1	6.1
07/23/90-07/27/90	28.9	28.5	9.2	7.8	7.6	6.9	5.8	5.7
07/28/90-08/01/90	28.2	27.9	---	---	4.4	4.5	4.0	4.1
08/02/90-08/06/90	27.7	27.3	---	---	5.2	5.3	4.2	4.8
08/07/90-08/11/90	27.1	26.9	---	---	5.1	5.2	5.0	5.1
08/12/90-08/16/90	28.0	27.9	---	---	5.6	5.7	5.2	5.7
08/17/90-08/21/90	---	---	---	---	---	---	---	---
08/22/90-08/26/90	---	---	---	---	---	---	---	---
08/27/90-08/31/90	---	27.9	---	6.1	---	5.6	---	5.0
09/01/90-09/05/90	27.8	27.3	6.6	6.1	5.4	5.4	5.1	5.2
09/06/90-09/10/90	27.5	27.1	6.6	6.4	6.0	6.0	5.7	5.7
09/11/90-09/15/90	27.3	26.8	6.8	6.5	6.1	6.1	5.7	5.8
09/16/90-09/20/90	24.3	23.9	7.2	7.2	6.9	6.9	6.7	6.8
09/21/90-09/25/90	22.9	22.4	7.9	7.7	7.4	7.5	7.1	7.1
09/26/90-09/30/90	22.6	22.4	8.6	8.4	8.2	8.2	7.4	7.0
10/01/90-10/05/90	22.5	22.1	8.6	8.2	8.1	8.1	7.3	7.2
10/06/90-10/10/90	23.6	23.3	---	---	7.5	7.3	5.9	6.0
10/11/90-10/15/90	24.0	23.9	---	---	6.8	6.7	6.1	6.1
10/16/90-10/20/90	22.3	21.8	---	---	7.3	7.4	7.0	7.1
10/21/90-10/25/90	20.8	20.4	---	---	8.0	8.0	7.6	7.7
10/26/90-10/30/90	16.5	15.9	---	---	9.0	9.1	8.8	8.8
10/31/90-11/04/90	15.3	15.2	9.3	9.1	8.9	8.7	8.7	8.5
11/05/90-11/09/90	15.8	15.6	9.2	9.1	8.7	8.7	8.8	9.0
11/10/90-11/14/90	14.2	13.8	9.7	9.8	9.3	9.3	9.5	9.6
11/15/90-11/19/90	12.5	12.2	10.2	10.2	9.8	9.8	10.0	10.0
11/20/90-11/24/90	11.7	11.5	10.5	10.5	10.3	10.3	10.3	10.4
11/25/90-11/29/90	11.9	11.9	10.6	10.5	10.5	10.5	10.5	10.5
11/30/90-12/04/90	---	---	---	---	---	---	---	---
12/05/90-12/09/90	---	---	---	---	---	---	---	---
12/10/90-12/14/90	---	---	---	---	---	---	---	---

Table 6.--*Five-day mean water temperature and dissolved-oxygen values in water at site 2, Chowan River at light 5, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/15/90-12/19/90	---	---	---	---	---	---	---	---
12/20/90-12/24/90	12.0	11.8	10.9	10.8	10.7	10.7	10.6	10.6
12/25/90-12/29/90	10.2	10.0	10.9	10.9	10.9	10.9	10.7	10.7
12/30/90-01/03/91	10.2	10.1	11.2	11.2	11.1	11.1	11.0	11.0
01/04/91-01/08/91	9.4	9.1	11.2	11.3	11.3	11.4	11.2	11.3
01/09/91-01/13/91	8.6	8.5	11.0	11.0	11.6	11.6	11.6	11.6
01/14/91-01/18/91	9.1	8.9	10.2	10.2	10.8	10.8	10.8	10.8
01/19/91-01/23/91	8.4	8.1	10.5	10.5	10.9	10.9	11.0	11.0
01/24/91-01/28/91	6.2	6.1	11.2	11.2	11.1	11.1	11.3	11.2
01/29/91-02/2/91	6.7	6.6	11.0	11.0	10.9	10.8	11.0	10.9
02/03/91-02/07/91	8.5	8.4	10.9	10.9	10.7	10.7	10.4	10.4
02/08/91-02/12/91	8.6	8.3	10.9	10.9	10.8	10.8	10.8	10.9
02/13/91-02/17/91	7.7	7.5	11.5	11.5	11.4	11.4	11.5	11.5
02/18/91-02/22/91	8.1	8.2	11.8	11.8	11.7	11.7	11.8	11.7
02/23/91-02/27/91	8.4	8.1	11.6	11.6	11.5	11.5	11.5	11.5
02/28/91-03/04/91	9.3	9.4	11.4	11.3	11.4	11.3	11.4	11.3
03/05/91-03/09/91	10.9	10.9	10.8	10.7	10.7	10.6	10.7	10.6
03/10/91-03/14/91	10.1	9.9	10.8	10.8	10.7	10.7	10.7	10.7
03/15/91-03/19/91	10.0	9.7	11.1	11.0	10.9	10.9	10.9	10.9
03/20/91-03/24/91	12.3	12.4	10.4	10.5	10.5	10.4	10.6	10.3
03/25/91-03/29/91	15.2	15.2	---	9.2	10.2	10.2	9.7	9.7
03/30/91-04/03/91	15.8	15.3	9.0	8.9	9.8	9.7	9.2	9.1
04/04/91-04/08/91	16.9	16.6	---	---	9.5	9.5	7.5	7.5
04/09/91-04/13/91	18.8	18.4	7.9	7.8	8.0	7.6	7.5	7.5
04/14/91-04/18/91	18.7	18.5	7.8	7.6	7.5	7.5	7.8	7.8
04/19/91-04/23/91	17.7	17.3	7.6	7.6	8.0	8.0	8.9	8.9
04/24/91-04/28/91	18.4	18.6	8.2	8.2	8.4	8.3	8.5	8.4
04/29/91-05/03/91	21.8	21.5	8.6	8.3	8.5	8.2	7.1	6.7
05/04/91-05/08/91	22.1	22.0	8.0	7.8	7.9	7.8	7.4	7.4
05/09/91-05/13/91	23.2	23.1	8.1	8.0	8.1	7.9	7.6	7.6
05/14/91-05/18/91	25.5	25.2	---	---	7.7	7.7	8.1	8.1
05/19/91-05/23/91	23.6	23.1	---	---	7.7	7.7	8.2	8.3
05/24/91-05/28/91	26.7	26.4	---	---	7.9	7.8	7.7	7.7
05/29/91-06/02/91	29.1	28.8	---	---	7.2	7.2	5.8	5.5
06/03/91-06/07/91	27.4	26.7	---	---	7.0	6.9	6.1	6.3

Table 6.--*Five-day mean water temperature and dissolved-oxygen values in water at site 2, Chowan River at light 5, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/08/91-06/12/91	25.4	24.7	---	---	7.5	7.6	7.4	7.6
06/13/91-06/17/91	26.2	25.9	9.6	9.5	7.6	7.3	7.2	7.2
06/18/91-06/22/91	27.1	26.8	8.9	7.8	6.4	6.3	6.3	6.3
06/23/91-06/27/91	26.1	25.7	7.5	7.4	6.1	6.0	7.0	6.8
06/28/91-07/02/91	27.8	27.3	8.3	7.7	---	---	6.3	6.2
07/03/91-07/07/91	29.2	29.0	---	---	---	---	5.6	5.5
07/08/91-07/12/91	29.9	29.3	---	---	---	---	5.3	5.4
07/13/91-07/17/91	29.5	28.9	---	---	---	---	5.9	6.0
07/18/91-07/22/91	29.1	28.8	---	---	---	---	6.4	6.5
07/23/91-07/27/91	29.7	29.2	---	---	---	---	6.9	6.9
07/28/91-08/01/91	28.1	27.9	6.5	6.0	6.3	6.1	6.5	6.5
08/02/91-08/06/91	28.6	28.4	5.5	5.1	6.6	6.8	5.2	5.0
08/07/91-08/11/91	28.0	27.8	4.3	4.2	5.8	5.8	5.3	5.4
08/12/91-08/16/91	27.3	27.0	4.5	4.5	4.5	4.4	4.2	4.2
08/17/91-08/21/91	27.3	26.9	5.3	5.3	5.2	5.3	4.9	5.2
08/22/91-08/26/91	27.2	27.0	5.7	5.8	6.7	6.7	5.3	4.7
08/27/91-08/31/91	27.6	27.1	---	---	6.3	6.3	---	---
09/01/91-09/05/91	26.1	25.6	---	---	6.3	6.3	---	---
09/06/91-09/10/91	26.1	25.6	---	---	6.2	6.2	---	---
09/11/91-09/15/91	26.1	26.0	---	---	5.9	5.9	---	---
09/16/91-09/20/91	26.5	26.0	---	---	4.9	4.7	---	---
09/21/91-09/25/91	23.2	22.9	---	---	5.8	5.7	---	---
09/26/91-09/30/91	22.4	22.0	---	---	---	---	---	---

Table 7.--***Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991***

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

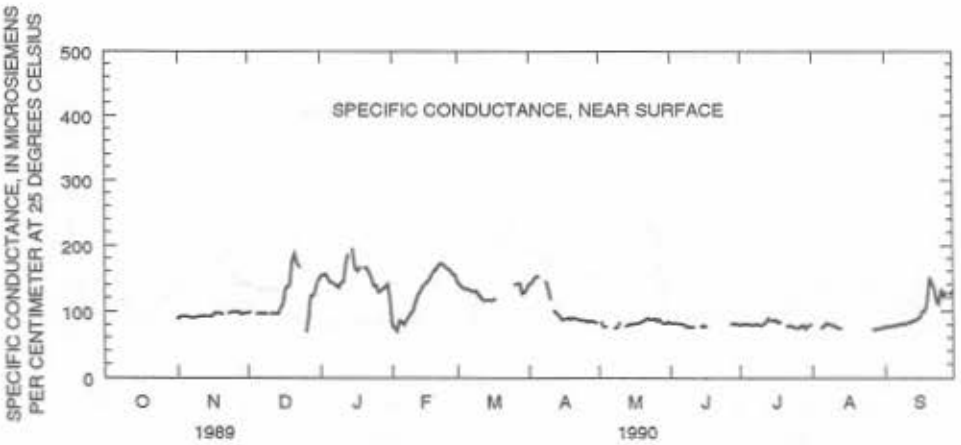
Specific Conductance, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 248 µS/cm January 30, 1990; minimum value recorded, 47 µS/cm January 30, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	89	98	153	77	143	141	---	82	80	---	77
2	---	92	99	155	75	140	142	83	82	81	---	77
3	---	92	---	156	70	135	148	77	82	81	78	77
4	---	93	---	153	85	134	153	77	82	80	---	78
5	---	92	97	145	83	133	152	---	81	81	76	78
6	---	91	97	143	80	132	---	---	81	79	78	79
7	---	90	98	141	86	131	---	---	80	80	82	80
8	---	90	97	138	91	129	144	75	76	81	81	81
9	---	91	97	135	97	130	137	76	77	79	79	80
10	---	92	---	144	102	125	118	82	76	79	79	81
11	---	93	97	144	112	121	---	---	77	81	76	83
12	---	92	97	174	124	115	100	---	---	84	75	83
13	---	93	97	185	130	115	96	78	---	89	75	86
14	---	92	97	---	136	116	93	81	77	86	---	86
15	---	92	104	194	141	115	87	80	79	86	---	89
16	---	94	111	164	144	115	88	81	77	87	---	91
17	---	98	132	161	149	117	88	82	---	83	---	100
18	---	98	138	165	156	---	90	82	---	84	---	101
19	---	98	138	---	160	128	87	83	---	---	---	110
20	---	96	177	165	164	---	90	85	---	---	---	151
21	---	---	187	165	170	---	88	87	---	78	---	144
22	---	---	174	157	172	---	87	90	---	78	---	134
23	---	98	167	152	170	---	87	87	---	78	---	113
24	---	99	---	138	165	---	86	87	---	76	---	110
25	---	100	---	139	163	---	86	89	---	75	---	133
26	---	99	70	129	161	140	84	85	---	75	---	121
27	---	100	93	130	156	141	85	88	81	78	73	127
28	---	96	123	134	155	141	85	83	82	79	73	---
29	---	97	123	136	---	126	84	82	81	74	74	126
30	---	98	132	141	---	128	83	82	80	78	74	131
31	---	---	146	113	---	133	---	84	---	80	75	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

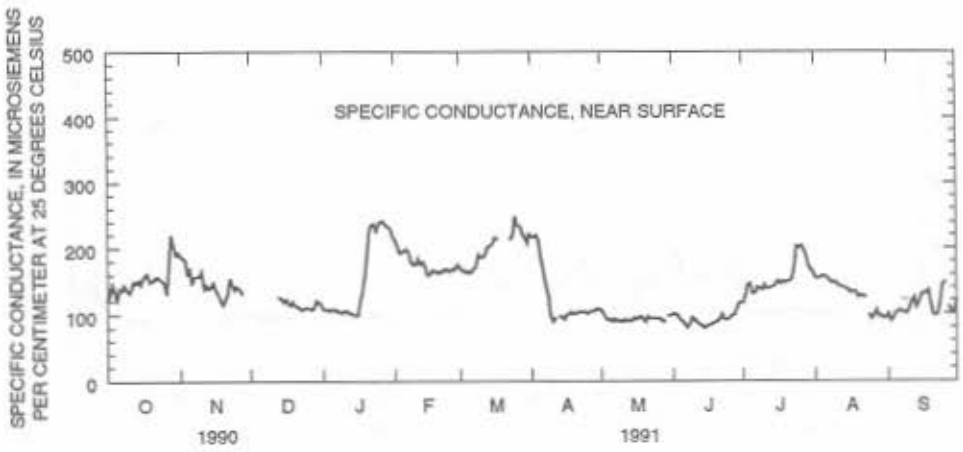
Specific Conductance, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 316 µS/cm March 26, 1991; minimum value recorded, 62 µS/cm September 20, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	123	187	---	108	212	170	216	105	100	116	156	99
2	131	185	---	108	203	166	217	98	99	128	154	89
3	145	181	---	107	193	166	219	93	95	144	156	91
4	135	163	---	106	194	163	210	91	91	146	158	100
5	119	168	---	108	196	165	186	92	88	130	158	102
6	139	146	---	108	198	164	167	89	85	130	156	104
7	137	157	---	105	193	169	143	92	80	140	151	102
8	144	158	---	104	179	172	126	90	85	138	147	101
9	138	157	---	103	175	190	98	90	94	136	149	100
10	133	165	---	104	175	186	89	89	91	144	146	108
11	137	139	---	106	184	187	93	91	88	138	142	117
12	150	144	---	102	175	190	---	90	85	138	141	123
13	147	139	125	102	178	201	96	90	83	140	139	109
14	152	142	124	100	172	203	95	90	79	141	137	116
15	145	148	119	99	159	208	92	94	81	146	135	127
16	154	136	122	99	161	215	98	92	83	150	131	130
17	159	131	117	117	166	214	100	94	84	146	133	130
18	162	122	114	133	165	---	103	96	86	150	133	134
19	149	115	119	158	164	---	100	92	87	148	124	116
20	151	120	113	192	163	---	101	88	89	150	127	98
21	155	130	112	227	165	---	103	96	92	150	125	97
22	157	154	109	236	166	---	103	93	99	154	124	98
23	154	145	108	237	168	214	103	93	91	171	---	117
24	151	137	109	223	165	220	103	93	91	202	97	143
25	149	142	111	239	166	248	101	93	92	200	92	148
26	131	139	109	240	169	233	103	93	97	203	97	---
27	162	132	107	241	168	233	104	90	98	198	104	109
28	219	---	110	236	174	220	104	89	106	189	95	100
29	207	---	120	232	---	217	108	---	115	174	96	102
30	190	---	118	229	---	208	108	97	116	167	93	117
31	193	---	116	216	---	220	---	97	---	163	93	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

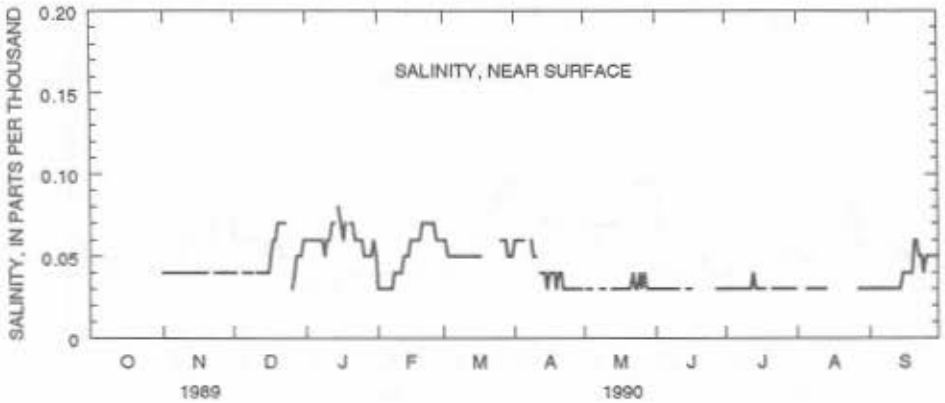
Salinity, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 0.10 ppt January 30, 1990; minimum value recorded, 0.02 ppt December 26, 1989, January 30, 31, February 1, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt)
OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.04	0.04	0.04	0.06	0.03	0.06	0.06	---	0.03	0.03	---	0.03
2	---	.04	.04	.06	.03	.06	.06	0.03	.03	.03	---	.03
3	---	.04	---	.06	.03	.05	.06	.03	.03	.03	0.03	.03
4	---	.04	---	.06	.03	.05	.06	.03	.03	.03	---	.03
5	---	.04	.04	.06	.03	.05	.06	---	.03	.03	.03	.03
6	---	.04	.04	.06	.03	.05	---	---	.03	.03	.03	.03
7	---	.04	.04	.06	.03	.05	---	---	.03	.03	.03	.03
8	---	.04	.04	.06	.04	.05	.06	.03	.03	.03	.03	.03
9	---	.04	.04	.05	.04	.05	.05	.03	.03	.03	.03	.03
10	---	.04	---	.06	.04	.05	.05	.03	.03	.03	.03	.03
11	---	.04	.04	.06	.04	.05	---	---	.03	.03	.03	.03
12	---	.04	.04	.07	.05	.05	.04	---	---	.03	.03	.03
13	---	.04	.04	.07	.05	.05	.04	.03	---	.04	.03	.03
14	---	.04	.04	---	.05	.05	.04	.03	.03	.03	---	.03
15	---	.04	.04	.08	.06	.05	.03	.03	.03	.03	---	.04
16	---	.04	.04	.07	.06	.05	.04	.03	.03	.03	---	.04
17	---	.04	.05	.06	.06	.05	.04	.03	---	.03	---	.04
18	---	.04	.06	.07	.06	---	.04	.03	---	.03	---	.04
19	---	.04	.06	---	.06	.05	.03	.03	---	---	---	.04
20	---	.04	.07	.07	.07	---	.04	.03	---	---	---	.06
21	---	---	.07	.07	.07	---	.04	.03	---	.03	---	.06
22	---	---	.07	.06	.07	---	.03	.04	---	.03	---	.05
23	---	.04	.07	.06	.07	---	.03	.03	---	.03	---	.05
24	---	.04	---	.06	.07	---	.03	.03	---	.03	---	.04
25	---	.04	---	.06	.07	---	.03	.04	---	.03	---	.05
26	---	.04	.03	.05	.06	.06	.03	.03	---	.03	---	.05
27	---	.04	.04	.05	.06	.06	.03	.04	.03	.03	.03	.05
28	---	.04	.05	.05	.06	.06	.03	.03	.03	.03	.03	---
29	---	.04	.05	.05	---	.05	.03	.03	.03	.03	.03	.05
30	---	.04	.05	.06	---	.05	.03	.03	.03	.03	.03	.05
31	---	---	.06	.05	---	.05	---	.03	---	.03	.03	---



DAILY MEAN SALINITY, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

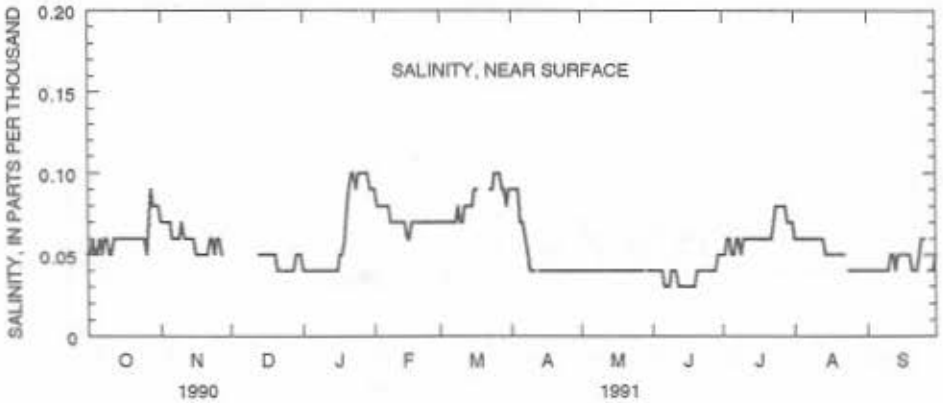
Salinity, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 0.14 ppt March 25, 26, 1991; minimum value recorded, 0.02 ppt September 20, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.07	---	0.04	0.09	0.07	0.09	0.04	0.04	0.05	0.06	0.04
2	.05	.07	---	.04	.08	.07	.09	.04	.04	.05	.06	.04
3	.06	.07	---	.04	.08	.07	.09	.04	.04	.06	.06	.04
4	.05	.07	---	.04	.08	.07	.09	.04	.04	.06	.06	.04
5	.05	.07	---	.04	.08	.07	.07	.04	.04	.05	.06	.04
6	.06	.06	---	.04	.08	.07	.07	.04	.03	.05	.06	.04
7	.05	.06	---	.04	.08	.07	.06	.04	.03	.06	.06	.04
8	.06	.06	---	.04	.07	.07	.05	.04	.03	.06	.06	.04
9	.06	.06	---	.04	.07	.08	.04	.04	.04	.05	.06	.04
10	.05	.07	---	.04	.07	.07	.04	.04	.04	.06	.06	.04
11	.05	.06	---	.04	.07	.07	.04	.04	.04	.06	.06	.05
12	.06	.06	---	.04	.07	.08	---	.04	.03	.06	.06	.05
13	.06	.06	0.05	.04	.07	.08	.04	.04	.03	.06	.06	.04
14	.06	.06	.05	.04	.07	.08	.04	.04	.03	.06	.05	.05
15	.06	.06	.05	.04	.06	.08	.04	.04	.03	.06	.05	.05
16	.06	.05	.05	.04	.06	.09	.04	.04	.03	.06	.05	.05
17	.06	.05	.05	.05	.07	.09	.04	.04	.03	.06	.05	.05
18	.06	.05	.05	.05	.07	---	.04	.04	.03	.06	.05	.05
19	.06	.05	.05	.06	.07	---	.04	.04	.03	.06	.05	.05
20	.06	.05	.05	.08	.07	---	.04	.04	.04	.06	.05	.04
21	.06	.05	.04	.09	.07	---	.04	.04	.04	.06	.05	.04
22	.06	.06	.04	.10	.07	---	.04	.04	.04	.06	.05	.04
23	.06	.06	.04	.10	.07	.09	.04	.04	.04	.07	---	.05
24	.06	.05	.04	.09	.07	.09	.04	.04	.04	.08	.04	.06
25	.06	.06	.04	.10	.07	.10	.04	.04	.04	.08	.04	.06
26	.05	.06	.04	.10	.07	.10	.04	.04	.04	.08	.04	---
27	.07	.05	.04	.10	.07	.10	.04	.04	.04	.08	.04	.04
28	.09	---	.04	.10	.07	.09	.04	.04	.04	.08	.04	.04
29	.08	---	.05	.10	---	.09	.04	---	.05	.07	.04	.04
30	.08	---	.05	.09	---	.08	.04	.04	.05	.07	.04	.05
31	.08	---	.05	.09	---	.09	---	.04	---	.07	.04	---



DAILY MEAN SALINITY, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

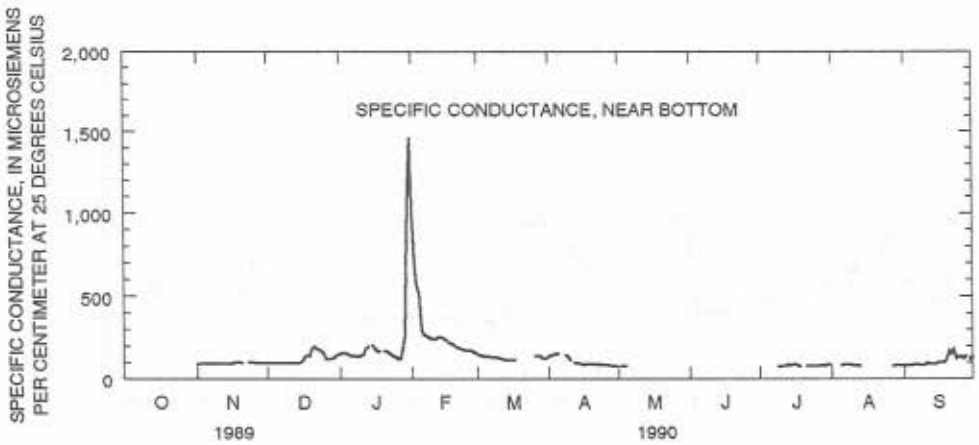
Specific Conductance, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 2,700 µS/cm January 30, 1990; minimum value recorded, 66 µS/cm July 18, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	91	98	152	1,010	149	140	---	---	---	---	81
2	---	93	98	156	704	142	143	76	---	---	---	82
3	---	93	97	157	562	140	147	76	---	---	80	82
4	---	94	98	153	519	138	152	77	---	---	---	82
5	---	93	97	145	296	136	151	---	---	---	80	84
6	---	92	96	141	268	137	---	---	---	---	84	83
7	---	92	96	139	261	133	---	---	---	---	86	83
8	---	92	96	137	254	130	144	---	---	---	86	82
9	---	92	96	134	246	132	139	---	---	74	84	82
10	---	93	97	142	243	129	117	---	---	74	81	86
11	---	94	96	146	244	124	---	---	---	78	82	98
12	---	92	96	181	254	119	98	---	---	78	80	89
13	---	93	95	197	253	116	95	---	---	86	78	90
14	---	92	97	---	248	115	93	75	---	82	---	91
15	---	93	102	201	244	116	88	---	---	83	---	95
16	---	94	110	180	229	116	86	---	---	91	---	100
17	---	99	137	164	220	117	88	---	---	81	---	100
18	---	99	141	167	213	---	90	75	---	72	---	99
19	---	99	140	---	203	129	87	---	---	---	---	119
20	---	97	183	166	192	---	89	78	---	---	---	167
21	---	---	194	166	188	---	88	---	---	78	---	152
22	---	---	178	156	180	---	86	---	---	78	---	180
23	---	99	175	149	176	---	87	89	---	77	---	123
24	---	99	163	136	172	---	85	---	---	77	---	130
25	---	100	153	133	171	---	84	---	---	77	---	135
26	---	98	120	121	169	140	84	---	---	77	---	125
27	---	98	121	122	164	140	82	---	---	81	79	134
28	---	95	124	174	160	141	77	---	---	80	80	---
29	---	97	122	264	---	125	76	---	---	78	80	124
30	---	98	134	1,060	---	124	75	---	---	84	80	131
31	---	---	148	1,460	---	129	---	---	---	83	80	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

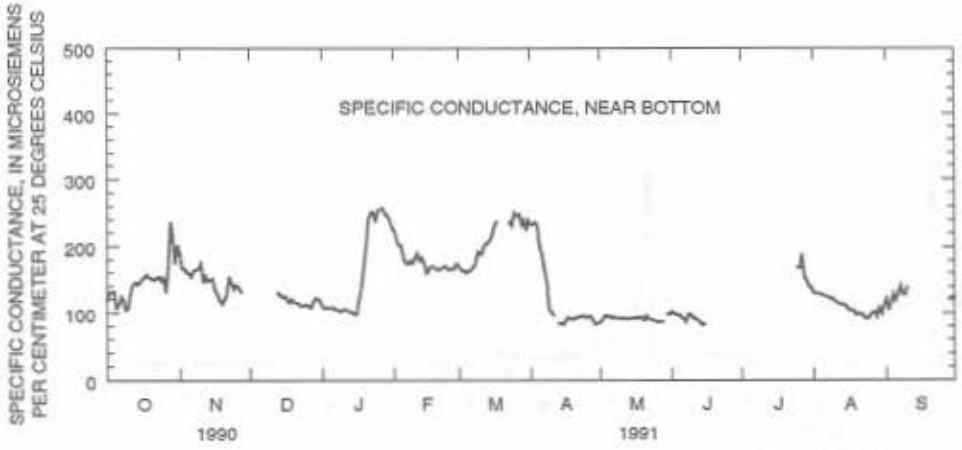
Specific Conductance, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 318 µS/cm March 26, 1991; minimum value recorded, 66 µS/cm May 26, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	118	186	---	109	224	169	232	86	103	---	131	121
2	130	166	---	108	210	164	233	89	99	---	130	104
3	132	166	---	108	202	163	236	96	98	---	130	115
4	132	160	---	107	202	161	230	95	98	---	129	129
5	107	159	---	108	183	163	200	95	94	---	127	119
6	110	155	---	107	176	163	188	92	92	---	126	128
7	124	163	---	105	174	168	164	94	86	---	124	141
8	120	165	---	105	179	172	145	92	99	---	122	129
9	105	166	---	103	175	191	106	92	99	---	122	128
10	107	175	---	105	183	188	101	91	92	---	118	139
11	129	146	---	106	189	189	97	93	93	---	115	---
12	143	156	---	103	179	202	---	91	89	---	114	---
13	146	148	130	103	183	205	84	91	86	---	112	---
14	143	151	127	101	175	208	84	92	82	---	112	---
15	147	152	123	98	160	214	82	92	83	---	110	---
16	151	134	125	99	163	226	86	93	---	---	104	---
17	154	129	119	119	170	237	93	92	---	---	104	---
18	157	119	115	137	170	---	91	94	---	---	104	---
19	153	113	120	171	166	---	90	93	---	---	98	---
20	152	118	115	205	164	---	92	89	---	---	100	---
21	150	128	115	241	166	---	93	96	---	---	99	---
22	153	155	113	252	168	---	94	91	---	---	97	---
23	155	146	111	252	170	236	95	90	---	---	92	---
24	149	136	111	237	165	231	95	89	---	---	92	---
25	153	142	112	255	165	250	93	87	---	169	95	---
26	131	139	110	256	166	245	94	86	---	168	101	---
27	157	132	108	257	166	248	95	87	---	189	102	---
28	236	---	114	250	174	233	88	87	---	155	95	122
29	220	---	122	246	---	239	83	---	---	150	107	123
30	174	---	121	241	---	224	84	99	---	141	99	124
31	202	---	118	227	---	239	---	98	---	137	110	---



DAILY MEAN SPECIFIC CONDUCTANCE, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

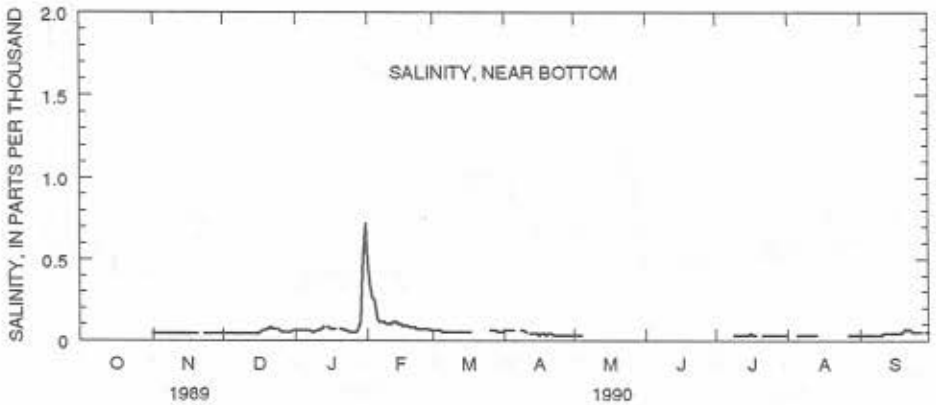
Salinity, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 1.4 ppt January 30, 1990; minimum value recorded, 0.03 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.04	0.04	0.04	0.06	0.48	0.06	0.06	---	---	---	---	0.03
2	---	.04	.04	.06	.33	.06	.06	0.03	---	---	---	.03
3	---	.04	.04	.06	.26	.06	.06	.03	---	---	0.03	.03
4	---	.04	.04	.06	.24	.06	.06	.03	---	---	---	.03
5	---	.04	.04	.06	.13	.05	.06	---	---	---	.03	.03
6	---	.04	.04	.06	.11	.05	---	---	---	---	.03	.03
7	---	.04	.04	.06	.11	.05	---	---	---	---	.03	.03
8	---	.04	.04	.05	.11	.05	.06	---	---	---	.03	.03
9	---	.04	.04	.05	.10	.05	.06	---	---	0.03	.03	.03
10	---	.04	.04	.06	.10	.05	.05	---	---	.03	.03	.03
11	---	.04	.04	.06	.10	.05	---	---	---	.03	.03	.04
12	---	.04	.04	.07	.11	.05	.04	---	---	.03	.03	.04
13	---	.04	.04	.08	.11	.05	.04	---	---	.03	.03	.04
14	---	.04	.04	---	.10	.05	.04	.03	---	.03	---	.04
15	---	.04	.04	.08	.10	.05	.04	---	---	.03	---	.04
16	---	.04	.04	.07	.09	.05	.03	---	---	.04	---	.04
17	---	.04	.05	.07	.09	.05	.04	---	---	.03	---	.04
18	---	.04	.06	.07	.09	---	.04	.03	---	.03	---	.04
19	---	.04	.06	---	.08	.05	.03	---	---	---	---	.05
20	---	.04	.07	.07	.08	---	.04	.03	---	---	---	.07
21	---	---	.08	.07	.08	---	.04	---	---	.03	---	.06
22	---	---	.07	.06	.07	---	.03	---	---	.03	---	.07
23	---	.04	.07	.06	.07	---	.03	.04	---	.03	---	.05
24	---	.04	.07	.05	.07	---	.03	---	---	.03	---	.05
25	---	.04	.06	.05	.07	---	.03	---	---	.03	---	.05
26	---	.04	.05	.05	.07	.06	.03	---	---	.03	---	.05
27	---	.04	.05	.05	.07	.06	.03	---	---	.03	.03	.05
28	---	.04	.05	.07	.06	.06	.03	---	---	.03	.03	---
29	---	.04	.05	.11	---	.05	.03	---	---	.03	.03	.05
30	---	.04	.05	.51	---	.05	.03	---	---	.03	.03	.05
31	---	---	.06	.72	---	.05	---	---	---	.03	.03	---



DAILY MEAN SALINITY, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

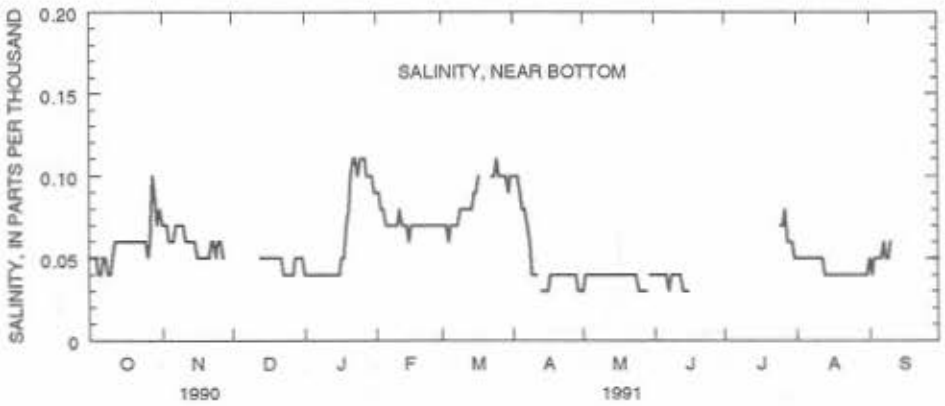
Salinity, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 0.14 ppt March 26, 1991; minimum value recorded, 0.03 ppt on many days.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.07	---	0.04	0.09	0.07	0.10	0.03	0.04	---	0.05	0.05
2	.05	.07	---	.04	.09	.07	.10	.04	.04	---	.05	.04
3	.05	.07	---	.04	.08	.07	.10	.04	.04	---	.05	.05
4	.05	.06	---	.04	.08	.06	.09	.04	.04	---	.05	.05
5	.04	.06	---	.04	.07	.07	.08	.04	.04	---	.05	.05
6	.04	.06	---	.04	.07	.07	.08	.04	.04	---	.05	.05
7	.05	.07	---	.04	.07	.07	.07	.04	.03	---	.05	.06
8	.05	.07	---	.04	.07	.07	.06	.04	.04	---	.05	.05
9	.04	.07	---	.04	.07	.08	.04	.04	.04	---	.05	.05
10	.04	.07	---	.04	.07	.08	.04	.04	.04	---	.05	.06
11	.05	.06	---	.04	.08	.08	.04	.04	.04	---	.05	---
12	.06	.06	---	.04	.07	.08	---	.04	.04	---	.05	---
13	.06	.06	0.05	.04	.07	.08	.03	.04	.03	---	.04	---
14	.06	.06	.05	.04	.07	.08	.03	.04	.03	---	.04	---
15	.06	.06	.05	.04	.06	.09	.03	.04	.03	---	.04	---
16	.06	.05	.05	.04	.07	.09	.03	.04	---	---	.04	---
17	.06	.05	.05	.05	.07	.10	.04	.04	---	---	.04	---
18	.06	.05	.05	.05	.07	---	.04	.04	---	---	.04	---
19	.06	.05	.05	.07	.07	---	.04	.04	---	---	.04	---
20	.06	.05	.05	.08	.07	---	.04	.04	---	---	.04	---
21	.06	.05	.05	.10	.07	---	.04	.04	---	---	.04	---
22	.06	.06	.05	.11	.07	---	.04	.04	---	---	.04	---
23	.06	.06	.04	.11	.07	.10	.04	.04	---	---	.04	---
24	.06	.05	.04	.10	.07	.10	.04	.04	---	---	.04	---
25	.06	.06	.04	.11	.07	.11	.04	.03	---	0.07	.04	---
26	.05	.06	.04	.11	.07	.10	.04	.03	---	.07	.04	---
27	.06	.05	.04	.11	.07	.10	.04	.03	---	.08	.04	---
28	.10	---	.05	.10	.07	.10	.04	.03	---	.06	.04	.05
29	.09	---	.05	.10	---	.10	.03	---	---	.06	.04	.05
30	.07	---	.05	.10	---	.09	.03	.04	---	.06	.04	.05
31	.08	---	.05	.09	---	.10	---	.04	---	.05	.04	---



DAILY MEAN SALINITY, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

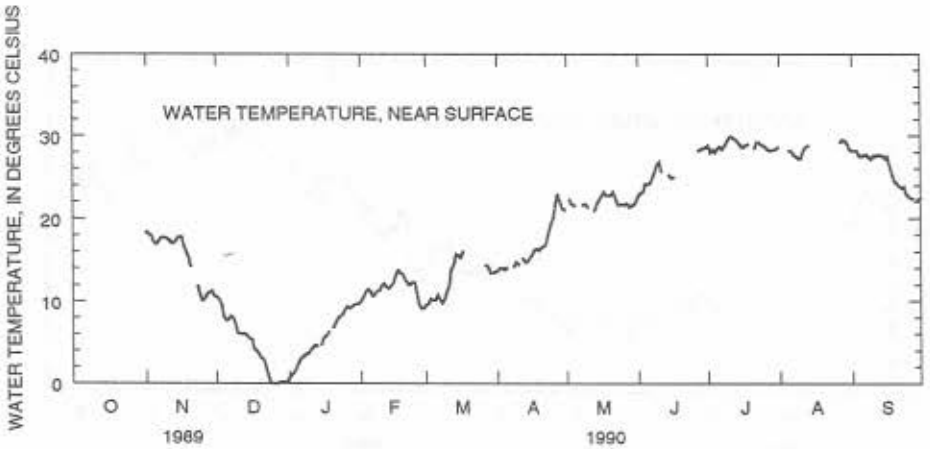
Water Temperature, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 31.5 °C July 1, 1990; minimum value recorded, 0.0 °C December 23-31, 1989.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21.4	18.3	10.5	0.6	10.0	9.5	13.6	---	22.8	28.8	---	28.2
2	---	18.1	10.2	.9	10.5	9.6	14.0	22.2	23.1	28.0	---	28.2
3	---	17.9	9.5	1.3	11.0	10.2	14.0	21.7	23.3	28.3	28.3	28.1
4	---	17.3	8.1	1.7	11.4	10.1	13.8	21.5	24.2	28.0	---	27.5
5	---	16.9	7.6	2.4	11.1	10.1	14.0	---	24.1	28.4	28.2	27.5
6	---	17.0	7.7	3.0	10.6	10.7	---	---	24.2	28.7	28.1	27.7
7	---	17.5	8.1	3.2	10.8	10.2	---	---	24.9	28.4	27.7	27.7
8	---	17.7	7.9	3.5	11.2	9.8	14.2	21.6	25.7	28.7	27.5	27.4
9	---	17.6	7.2	3.6	11.3	10.2	14.7	21.7	26.4	29.2	27.3	27.2
10	---	17.5	6.1	3.9	12.0	11.0	14.5	21.4	26.9	29.8	27.3	27.6
11	---	17.2	6.0	4.3	12.1	11.9	---	---	25.7	29.9	28.2	27.5
12	---	17.0	6.0	4.6	11.7	13.8	15.1	---	---	29.7	28.6	27.7
13	---	17.1	6.0	4.5	11.6	14.4	14.7	21.0	---	29.6	28.8	27.6
14	---	17.5	5.7	---	11.9	15.7	14.8	21.7	25.2	29.2	---	27.6
15	---	17.8	5.4	4.7	12.3	15.5	15.3	22.3	24.9	28.8	---	27.3
16	---	17.8	5.2	5.6	13.1	15.3	15.6	22.7	25.0	28.6	---	27.5
17	---	16.8	4.2	5.8	13.7	16.0	16.2	23.2	---	28.8	---	26.3
18	---	16.0	3.9	6.2	13.4	---	16.4	22.8	---	29.0	---	25.2
19	---	15.2	3.6	---	13.2	16.3	16.1	22.8	---	---	---	24.5
20	---	14.2	3.0	6.8	12.7	---	16.5	22.8	---	---	---	24.2
21	---	---	2.8	7.3	12.1	---	16.7	23.2	---	28.5	---	23.9
22	---	---	2.1	7.9	12.0	---	17.0	22.5	---	29.2	---	23.7
23	---	11.8	.8	8.1	12.3	---	18.3	21.6	---	29.2	---	23.8
24	---	10.6	.0	8.4	12.3	---	19.2	21.6	---	28.9	---	23.0
25	---	10.1	.0	8.9	11.1	---	19.9	21.7	---	28.8	---	22.6
26	---	10.3	.0	9.3	9.5	---	21.8	21.6	---	28.5	---	22.4
27	---	10.9	.0	9.1	9.1	14.3	23.0	21.8	28.2	28.3	29.3	22.4
28	---	11.0	.1	9.2	9.1	14.1	22.0	21.4	28.4	28.2	29.5	---
29	---	11.2	.1	9.5	---	13.4	21.2	21.5	28.5	28.3	29.4	22.2
30	---	10.6	.1	9.6	---	13.4	21.1	21.6	28.5	28.4	28.9	22.4
31	---	---	.1	9.7	---	13.5	---	22.0	---	28.6	28.3	---



DAILY MEAN WATER TEMPERATURE, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

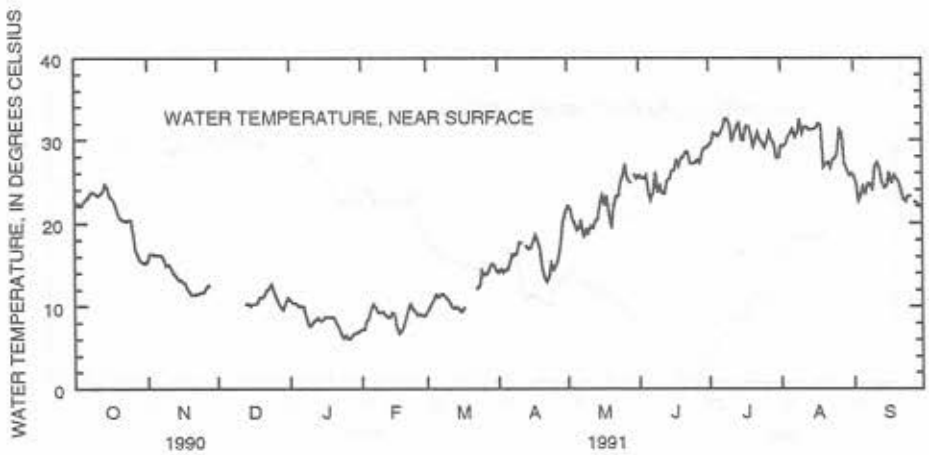
Water Temperature, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 35.0 °C August 16, 1991; minimum value recorded, 5.5 °C January 26, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22.2	15.5	---	10.7	7.3	9.3	14.1	22.0	25.7	29.4	29.3	25.6
2	22.3	16.3	---	10.4	7.3	9.7	14.5	21.8	25.4	29.7	29.2	24.5
3	22.2	16.3	---	10.4	8.1	10.2	14.1	20.5	25.3	30.8	29.6	22.6
4	22.1	16.1	---	10.2	8.7	10.9	14.4	19.9	25.7	30.6	30.3	23.3
5	22.5	16.2	---	9.9	9.8	11.4	14.3	19.2	23.6	30.4	30.8	24.3
6	22.9	16.1	---	10.0	10.2	11.1	15.2	19.5	22.7	30.8	31.3	23.6
7	23.2	16.1	---	9.9	9.8	11.4	16.2	20.4	23.7	31.5	30.3	24.7
8	23.7	15.6	---	8.7	9.3	11.5	16.1	18.3	26.1	32.5	30.9	24.6
9	23.7	14.9	---	7.7	9.2	11.1	16.4	19.2	23.7	32.5	32.5	23.9
10	23.4	15.0	---	7.7	9.4	10.9	17.7	18.8	24.4	31.7	30.8	26.6
11	23.3	14.6	---	8.1	9.0	10.4	17.7	19.7	23.6	29.8	31.6	27.2
12	23.5	14.0	---	8.4	8.7	9.9	---	19.4	23.5	30.8	31.6	26.5
13	23.9	13.7	10.2	8.6	8.7	9.8	17.2	20.2	25.1	31.4	31.2	24.9
14	24.6	13.2	10.3	8.2	9.2	9.9	16.9	20.5	25.3	32.2	31.3	24.2
15	24.1	13.2	10.0	8.3	9.1	9.5	17.1	22.5	26.2	30.0	31.3	24.4
16	23.2	12.9	10.2	8.7	7.6	9.4	17.7	23.3	26.3	29.9	31.5	26.1
17	22.9	12.8	10.2	8.7	6.8	9.8	18.6	22.1	27.4	31.7	32.0	24.7
18	22.5	12.1	10.4	8.7	7.1	---	18.0	23.3	26.8	31.6	31.8	25.8
19	21.6	11.6	11.1	8.7	7.5	---	17.1	21.1	27.7	30.9	26.7	25.4
20	20.7	11.4	11.0	8.5	8.6	---	14.6	19.4	28.0	29.2	27.0	24.8
21	20.4	11.4	11.4	7.9	9.8	---	13.4	21.9	28.5	30.1	27.3	24.1
22	20.4	11.5	11.9	7.4	10.2	---	13.0	23.2	28.5	30.9	26.6	22.9
23	20.2	11.6	12.2	6.8	9.6	12.2	13.6	23.3	27.1	29.9	27.5	22.5
24	20.4	11.7	12.7	6.2	9.3	12.5	15.2	24.9	27.1	29.6	27.8	23.2
25	20.4	11.7	11.9	6.5	8.9	14.2	14.5	25.8	27.2	29.1	28.2	23.2
26	18.5	12.2	11.1	6.1	9.1	13.8	15.0	27.0	27.5	30.0	31.2	---
27	16.7	12.5	10.3	6.2	8.9	13.9	15.7	25.2	27.2	30.9	30.7	22.5
28	16.0	---	9.9	6.6	8.8	14.5	17.6	24.8	28.3	29.9	27.3	22.2
29	15.5	---	9.6	6.8	---	15.1	20.0	---	29.1	29.6	26.4	21.9
30	15.3	---	10.2	6.9	---	15.0	21.2	25.8	29.0	27.8	25.7	21.9
31	15.2	---	11.0	7.1	---	14.4	---	25.3	---	27.8	25.9	---



DAILY MEAN WATER TEMPERATURE, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

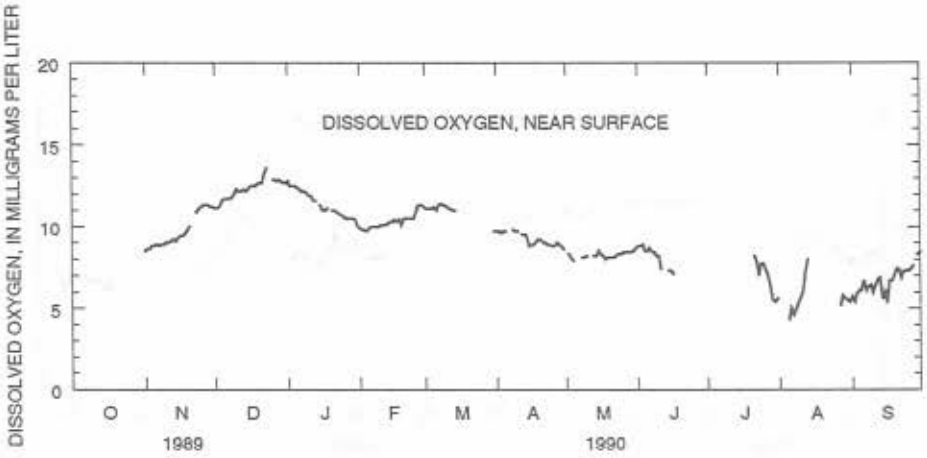
Dissolved Oxygen, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 13.8 mg/L December 23, 1989; minimum value recorded, 1.3 mg/L July 31, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	8.5	11.1	12.8	9.9	11.1	9.7	---	8.8	---	---	5.7
2	---	8.6	11.1	12.5	9.8	11.1	9.7	8.3	8.8	---	---	5.4b
3	---	8.6	11.3	12.5	9.8	11.1	9.6	8.1	8.9	---	4.5b	5.9b
4	---	8.8	11.6	12.5	9.7	11.1	9.7	7.9	8.5	---	---	6.1
5	---	8.8	11.7	12.4	9.9	11.2	9.7	---	8.5	---	4.3b	6.1
6	---	8.9	11.7	12.3	10.0	11.0	---	---	8.7	---	5.0b	6.7b
7	---	8.8	11.7	12.2	10.0	11.3	---	---	8.4	---	4.6b	6.1b
8	---	8.9	11.8	12.2	10.0	11.4	9.8	8.1	8.4	---	5.0b	6.3
9	---	8.9	12.0	12.1	10.0	11.3	9.7	8.1	8.2	---	5.3b	6.4
10	---	9.0	12.3	11.9	10.1	11.3	9.7	8.2	8.2	---	5.7b	6.0b
11	---	9.0	12.2	11.9	10.1	11.1	---	---	7.4	---	6.2b	6.4
12	---	9.1	12.2	11.6	10.1	11.1	9.5	---	---	---	7.2b	6.8
13	---	9.2	12.3	11.6	10.2	11.0	9.5	8.2	---	---	8.0	6.9
14	---	9.1	12.2	---	10.3	11.0	9.4	8.2	7.3	---	---	5.6b
15	---	9.3	12.3	11.3	10.3	---	8.8	8.5	7.3	---	---	6.0b
16	---	9.4	12.5	11.0	10.4	---	8.9	8.3	7.1	---	---	5.3b
17	---	9.4	12.5	11.0	10.3	---	8.9	8.2	---	---	---	6.7
18	---	9.5	12.5	11.1	10.4	---	9.1	8.0	---	---	---	6.7b
19	---	9.8	12.6	---	10.1	---	9.2	8.1	---	---	---	7.0
20	---	10.0	12.7	11.0	10.5	---	9.2	8.1	---	---	---	7.4
21	---	---	12.7	11.0	10.5	---	9.0	8.1	---	8.2	---	7.4
22	---	---	13.2	10.9	10.5	---	9.0	8.1	---	7.9	---	6.9
23	---	10.9	13.6	10.8	10.5	---	8.9	8.3	---	7.0b	---	7.3
24	---	11.1	---	10.7	10.5	---	8.9	8.3	---	7.7	---	7.3
25	---	11.2	---	10.6	10.8	---	8.8	8.3	---	7.7	---	7.3
26	---	11.3	12.9	10.5	11.3	---	8.8	8.4	---	7.3	---	7.4
27	---	11.3	12.8	10.5	11.3	---	9.0	8.4	---	7.0	5.2b	7.6
28	---	11.3	12.9	10.5	11.3	---	8.9	8.4	---	6.3	5.8b	---
29	---	11.2	12.8	10.5	---	---	8.8	8.4	---	5.5b	5.6b	8.3
30	---	11.2	12.7	10.4	---	---	8.6	8.5	---	5.4b	5.5b	8.4
31	---	---	12.7	10.0	---	9.7	---	8.6	---	5.6a	5.4b	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

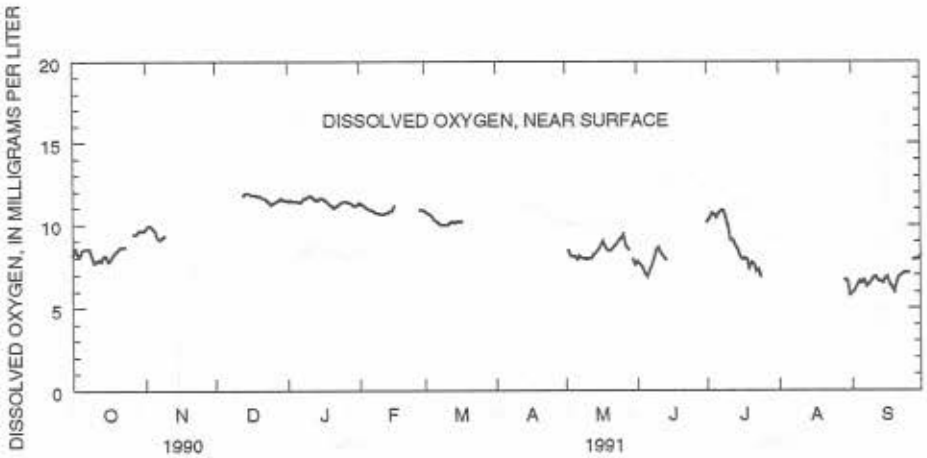
Dissolved Oxygen, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.2 mg/L January 14, July 8, 1991; minimum value recorded, 5.0 mg/L September 5, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	9.7	---	11.4	11.3	10.8	---	---	7.8	10.2	---	5.9
2	8.5	9.9	---	11.5	11.2	10.7	---	8.4	7.6	10.4	---	6.1
3	8.2	9.9	---	11.4	11.1	10.6	---	8.1	7.4	10.7	---	6.3
4	8.1	9.7	---	11.4	11.0	10.5	---	8.1	7.1	10.6	---	6.6
5	8.4	9.6	---	11.4	10.9	10.3	---	8.1	6.9	10.4	---	6.5b
6	8.5	9.2	---	11.3	10.9	10.2	---	7.9	7.2	10.7	---	6.7
7	8.5	9.1	---	11.4	10.8	10.1	---	8.1	7.5	10.9	---	6.3
8	8.5	9.2	---	11.6	10.7	10.0	---	8.0	8.0	10.9	---	6.4
9	8.1	9.3	---	11.6	10.7	10.0	---	8.0	8.4	10.4	---	6.6
10	7.7	---	---	11.7	10.6	10.0	---	7.9	8.6	9.8	---	6.8
11	7.8	---	---	11.7	10.6	10.0	---	8.0	8.3	9.1	---	6.9
12	7.9	---	---	11.6	10.7	10.1	---	8.0	8.1	9.1	---	6.6
13	7.8	---	11.8	11.5	10.7	10.2	---	8.2	7.9	8.8	---	6.6
14	8.1	9.6	11.9	11.5	10.8	10.1	---	8.3	---	8.5	---	6.5
15	8.1	---	11.9	11.6	10.8	10.2	---	8.5	---	8.1	---	6.8
16	7.8	---	11.8	11.6	11.1	10.2	---	8.7	---	7.9	---	6.9
17	7.9	---	11.8	11.5	---	10.2	---	9.0	---	8.0	---	6.4
18	8.1	---	11.8	11.4	---	---	---	8.7	---	7.9	---	6.2
19	8.3	---	11.7	11.2	---	---	---	8.4	---	7.4	---	6.0
20	8.4	---	11.7	11.1	---	---	---	8.4	---	7.7	---	6.6
21	8.6	---	11.6	11.0	---	---	---	8.5	---	7.6	---	6.9
22	8.6	---	11.6	11.1	---	---	---	8.7	---	7.2	---	7.0
23	8.6	---	11.5	11.2	---	---	---	8.9	---	7.3	---	7.1
24	---	---	11.3	11.3	---	---	---	9.1	---	6.9	---	7.1
25	---	---	11.2	11.4	---	---	---	9.2	---	---	---	7.1
26	---	---	11.3	11.4	---	---	---	9.4	---	---	---	---
27	9.4	---	11.4	11.3	10.9	---	---	8.7	---	---	---	7.9
28	9.4	---	11.5	11.3	10.9	---	---	8.5	---	---	---	7.9
29	9.6	---	11.6	11.2	---	---	---	---	---	---	6.7	7.9
30	9.6	---	11.5	11.1	---	---	---	7.9	---	---	6.6	8.1
31	9.6	---	11.5	11.2	---	---	---	7.6	---	---	5.8	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

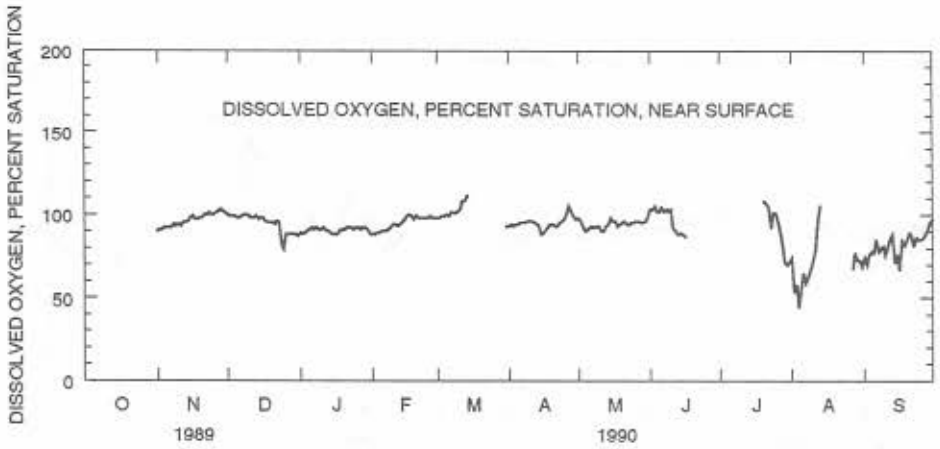
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 146 percent July 22, 1990; minimum value recorded, 17 percent July 31, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	90	100	89	88	98	93	---	103	---	---	74
2	---	91	99	88	88	98	94	96	103	---	---	70
3	---	91	99	89	89	99	93	93	105	---	58	76
4	---	92	99	90	89	99	94	90	102	---	---	78
5	---	92	98	91	90	100	94	---	102	---	55	77
6	---	92	98	92	90	99	---	---	104	---	65	85
7	---	92	99	91	90	101	---	---	102	---	59	78
8	---	94	100	92	91	101	95	92	103	---	63	80
9	---	93	100	91	92	101	96	93	102	---	67	81
10	---	94	99	91	94	102	96	93	103	---	72	76
11	---	93	98	92	94	103	---	---	92	---	80	81
12	---	95	98	90	93	108	95	---	---	---	94	86
13	---	95	99	90	94	108	94	93	---	---	105	88
14	---	96	97	---	95	111	93	94	89	---	---	71
15	---	98	98	88	97	---	88	98	88	---	---	76
16	---	99	98	88	99	---	89	96	87	---	---	67
17	---	97	96	88	100	---	91	96	---	---	---	84
18	---	97	95	90	99	---	93	93	---	---	---	82
19	---	98	95	---	97	---	94	94	---	---	---	84
20	---	98	95	91	99	---	94	95	---	108	---	89
21	---	---	94	92	98	---	93	96	---	106	---	88
22	---	---	96	92	98	---	93	94	---	104	---	81
23	---	101	95	92	98	---	95	94	---	92	---	86
24	---	100	---	91	98	---	96	95	---	101	---	85
25	---	100	---	92	98	---	97	95	---	101	---	85
26	---	101	88	92	99	---	101	96	---	95	---	86
27	---	102	88	91	98	---	105	96	---	90	68	88
28	---	103	88	92	98	---	102	95	---	81	77	---
29	---	102	88	92	---	---	99	95	---	71	73	95
30	---	101	88	91	---	---	97	96	---	70	72	97
31	---	---	87	88	---	93	---	98	---	72	69	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

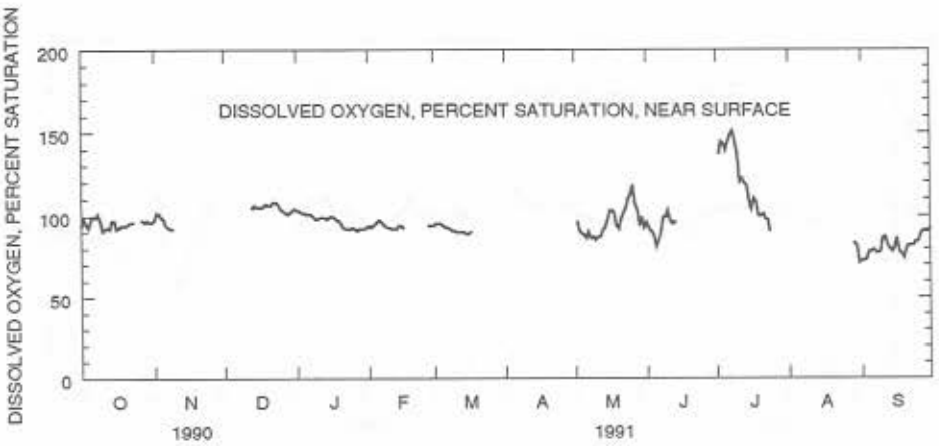
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--20 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 172 percent July 8, 1991; minimum value recorded, 59 percent September 5, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	98	---	103	94	94	---	---	96	---	---	72
2	98	102	---	103	93	95	---	96	92	137	---	73
3	95	101	---	102	94	95	---	91	90	144	---	73
4	93	99	---	102	95	95	---	89	88	143	---	78
5	97	98	---	101	97	94	---	88	81	139	---	78
6	100	94	---	101	97	93	---	86	84	145	---	79
7	99	93	---	101	95	93	---	90	89	149	---	77
8	101	92	---	100	94	92	---	86	99	151	---	77
9	97	92	---	98	93	91	---	87	99	144	---	78
10	91	---	---	98	93	91	---	85	103	135	---	86
11	92	---	---	99	92	90	---	87	98	120	---	87
12	93	---	---	99	92	90	---	87	95	122	---	82
13	92	---	105	99	92	90	---	91	96	119	---	80
14	97	91	106	98	94	90	---	93	---	117	---	78
15	97	---	105	99	94	89	---	98	---	108	---	81
16	92	---	105	100	93	89	---	103	---	104	---	86
17	93	---	105	99	---	90	---	103	---	110	---	78
18	94	---	106	98	---	---	---	102	---	108	---	76
19	94	---	107	97	---	---	---	94	---	100	---	74
20	94	---	106	95	---	---	---	92	---	100	---	80
21	95	---	106	93	---	---	---	98	---	101	---	82
22	96	---	108	92	---	---	---	102	---	98	---	82
23	96	---	108	92	---	---	---	105	---	97	---	82
24	---	---	107	92	---	---	---	110	---	91	---	84
25	---	---	104	93	---	---	---	113	---	---	---	84
26	---	---	103	92	---	---	---	118	---	---	---	---
27	97	---	102	91	94	---	---	107	---	---	---	91
28	96	---	101	92	94	---	---	103	---	---	---	91
29	97	---	102	92	---	---	---	95	---	---	83	91
30	96	---	103	92	---	---	---	98	---	---	81	92
31	96	---	104	93	---	---	---	93	---	---	71	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

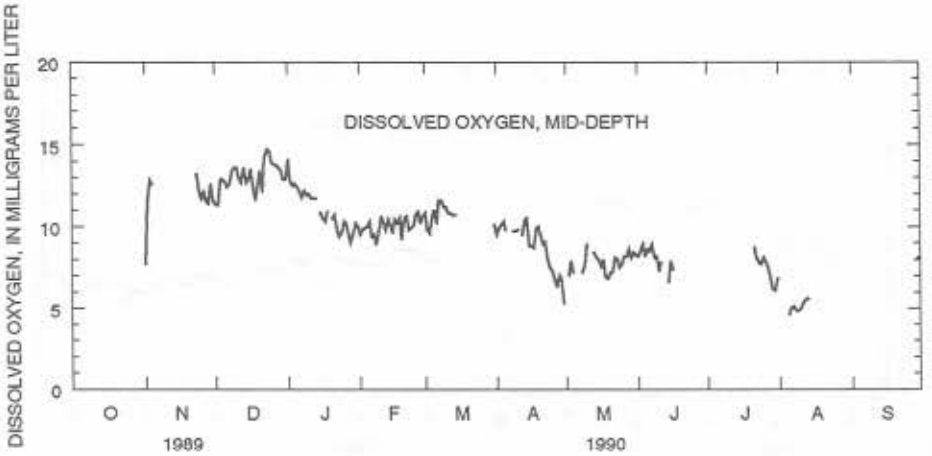
Dissolved Oxygen, Mid-Depth

Sensor Position.--12 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 14.9 mg/L December 23, 24, 1989; minimum value recorded, 2.7 mg/L October 1, 1989.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.4b	7.7	11.3	14.1	9.5	10.8	9.5	---	8.2	---	---	---
2	---	11.5	11.3	12.8	9.8	9.8	9.9	7.0b	8.5	---	---	---
3	---	12.8	12.9	12.5	9.9	9.6	10.1	7.9	8.9	---	5.2b	---
4	---	12.6	12.9	12.6	10.0	10.6	10.3	7.2	8.2	---	---	---
5	---	---	12.7	12.4	10.3	11.0	9.8	---	8.6	---	4.6b	---
6	---	---	12.4	12.1	9.4	10.2	---	---	8.5	---	5.0b	---
7	---	---	12.6	11.8	9.5	11.6	---	---	8.9	---	5.1b	---
8	---	---	13.4	12.2	8.9	11.6	9.7	7.2	8.1	---	4.8b	---
9	---	---	13.6	11.9	9.6	11.2	9.7	7.7	8.2	---	4.8b	---
10	---	---	13.6	12.0	10.6	11.2	9.8	8.9	7.3	---	5.0b	---
11	---	---	13.0	11.7	10.3	10.8	---	---	7.8	---	5.3b	---
12	---	---	12.7	11.7	9.8	10.8	9.5	---	---	---	5.5b	---
13	---	---	13.6	11.7	10.4	10.7	10.4	8.4	---	---	5.6b	---
14	---	---	12.7	---	10.1	10.7	10.5	8.1	6.6	---	---	---
15	---	---	12.8	10.8	9.6	---	8.8	7.9	7.9	---	---	---
16	---	---	13.5	10.5	10.4	---	8.8	7.6	7.4	---	---	---
17	---	---	12.6	10.3	10.2	---	8.7	8.0	---	---	---	---
18	---	---	11.6	10.9	10.5	---	9.9	6.9	---	---	---	---
19	---	---	12.3	---	9.2	---	10.0	6.8	---	---	---	---
20	---	---	13.4	10.5	10.5	---	9.4	7.2	---	---	---	---
21	---	---	12.1	10.7	10.6	---	8.9	7.2	---	8.7	---	---
22	---	---	14.2	9.8	9.8	---	9.0	8.1	---	8.1	---	---
23	---	13.2	14.7	9.4	9.9	---	7.9	8.0	---	7.8	---	---
24	---	12.1	14.6	9.6	10.1	---	7.5	7.5	---	7.7	---	---
25	---	11.7	13.9	10.3	10.7	---	7.3	7.7	---	8.1	---	---
26	---	12.1	13.8	10.2	10.9	---	6.7	8.2	---	7.8	---	---
27	---	11.5	13.7	9.5	10.2	---	6.3b	8.2	---	7.5	---	---
28	---	11.4	13.6	9.0	10.6	---	7.0b	8.6	---	6.8	---	---
29	---	12.6	13.4	9.5	---	---	6.8	8.1	---	6.2	---	8.1
30	---	11.6	12.9	10.2	---	---	5.3b	8.4	---	6.1b	---	8.1
31	---	---	12.9	10.0	---	10.1	---	8.3	---	6.8	---	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

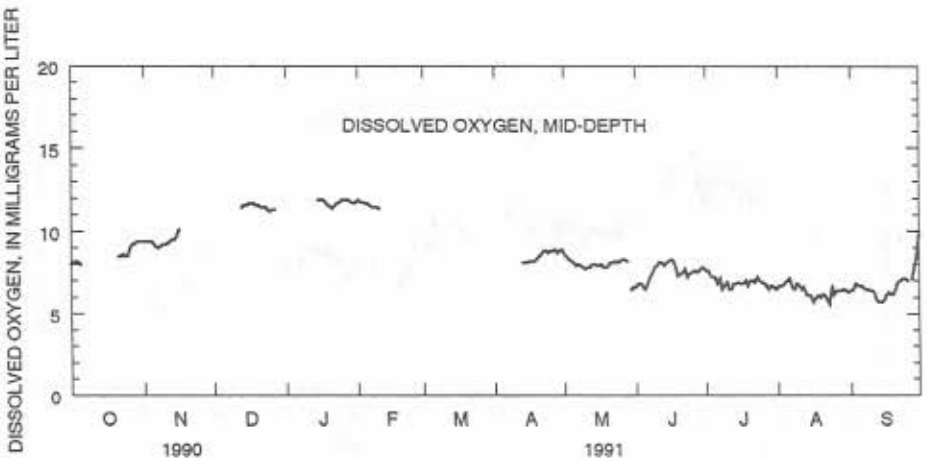
Dissolved Oxygen, Mid-Depth

Sensor Position.--12 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.5 mg/L December 16, 1990; minimum value recorded, 4.5 mg/L September 12, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.0	9.4	---	---	11.9	---	---	8.6	6.6	7.6	6.6	6.4
2	8.1	9.4	---	---	11.8	---	---	8.4	6.8	7.6	6.7	6.5
3	8.2	9.4	---	---	11.8	---	---	8.3	6.8	7.3	6.7	6.8
4	8.1	9.4	---	---	11.7	---	---	8.2	6.6	7.2	6.9	6.7b
5	8.0	9.3	---	---	11.7	---	---	8.1	6.5	7.2	7.0	6.7
6	---	9.1	---	---	11.6	---	---	7.9	6.8	6.8	7.1	6.6
7	---	9.0	---	---	11.5	---	---	8.0	7.2	7.1	6.6	6.5b
8	---	9.1	---	---	11.5	---	---	7.9	7.5	6.5	6.5	6.5
9	---	9.2	---	---	11.5	---	---	7.8	7.8	6.7	6.8	6.4
10	---	9.2	---	---	11.4	---	---	7.7	7.9	6.9	6.7	6.4b
11	---	9.3	---	---	---	---	---	7.8	8.1	6.5	6.5	6.3
12	---	9.4	---	---	---	---	---	7.8	8.1	6.5	6.6	5.8b
13	---	9.5	11.5	---	---	---	8.1	8.0	7.9	6.8	6.2	5.7b
14	---	9.5	11.6	---	---	---	8.1	8.0	8.1	6.8	6.1	5.7
15	---	9.7	11.6	11.9	---	---	8.1	7.9	8.2	6.9	6.1	5.8
16	---	10.1	11.7	11.9	---	---	8.2	7.9	8.3	6.8	5.7	6.1
17	---	---	11.7	11.9	---	---	8.2	8.0	8.2	6.8	5.9	6.3
18	---	---	11.7	11.8	---	---	8.2	7.8	7.8	7.0	6.1	6.2
19	---	---	11.6	11.6	---	---	8.3	7.8	7.3	6.7	6.0	6.2
20	---	---	11.6	11.5	---	---	8.5	7.9	7.4	7.0	6.2	6.5
21	8.5	---	11.5	11.4	---	---	8.6	8.1	7.5	7.0	6.1	6.9
22	8.5	---	11.5	11.6	---	---	8.8	8.1	7.7	6.9	5.8	7.0
23	8.6	---	11.5	11.7	---	---	8.8	8.2	7.2	7.2	5.6b	7.1
24	8.5	---	11.3	11.8	---	---	8.7	8.1	7.4	7.0	6.7	7.1
25	8.5	---	11.2	11.9	---	---	8.8	8.2	7.5	6.9	6.2	7.0
26	9.0	---	11.3	11.9	---	---	8.8	8.3	7.6	6.8	6.4	---
27	9.2	---	11.3	11.9	---	---	8.9	8.3	7.5	6.7	6.4	7.1
28	9.3	---	---	11.9	---	---	8.7	8.2	7.6	6.5	6.4	7.9
29	9.4	---	---	11.8	---	---	8.8	---	7.8	6.7	6.5	8.5
30	9.4	---	---	11.7	---	---	8.9	6.5	7.8	6.6	6.4	9.9
31	9.4	---	---	11.8	---	---	---	6.6	---	6.5	6.3	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

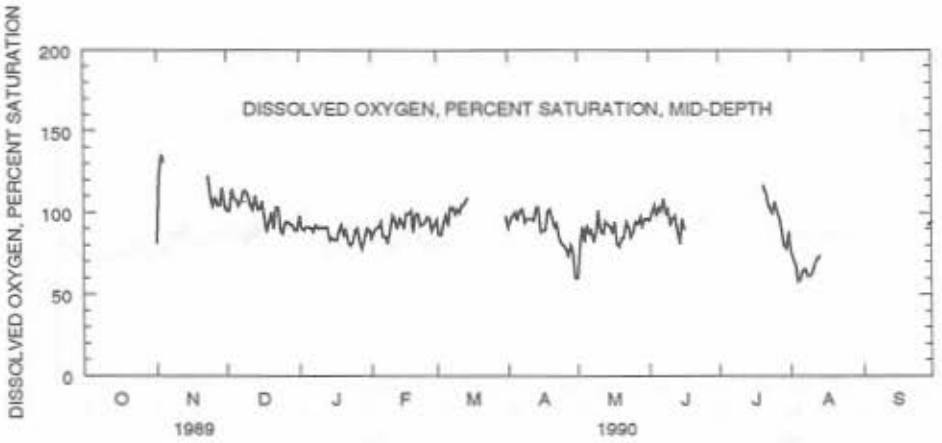
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--12 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 150 percent November 3, 1989; minimum value recorded, 30 percent October 1, 1989.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	82	101	98	84	95	91	---	95	---	---	---
2	---	123	101	90	88	86	96	81	100	---	---	---
3	---	135	114	89	90	86	98	91	104	---	67	---
4	---	131	109	91	91	94	100	82	98	---	---	---
5	---	---	107	91	94	98	95	---	103	---	59	---
6	---	---	104	90	85	92	---	---	101	---	64	---
7	---	---	107	88	85	103	---	---	108	---	65	---
8	---	---	113	92	81	103	94	82	100	---	61	---
9	---	---	113	90	88	99	96	88	102	---	61	---
10	---	---	110	91	98	102	96	101	92	---	63	---
11	---	---	105	90	96	100	---	---	96	---	68	---
12	---	---	102	91	90	104	95	---	---	---	71	---
13	---	---	110	91	96	105	103	94	---	---	73	---
14	---	---	102	---	94	108	103	93	81	---	---	---
15	---	---	102	84	90	---	88	91	96	---	---	---
16	---	---	107	83	99	---	89	88	90	---	---	---
17	---	---	97	83	99	---	89	94	---	---	---	---
18	---	---	88	88	101	---	101	81	---	---	---	---
19	---	---	93	---	88	---	102	79	---	---	---	---
20	---	---	100	86	99	---	96	84	---	---	---	---
21	---	---	90	89	99	---	91	84	---	112	---	---
22	---	---	103	82	92	---	93	94	---	106	---	---
23	---	122	103	80	93	---	84	91	---	102	---	---
24	---	109	88	82	94	---	81	85	---	100	---	---
25	---	104	87	89	97	---	80	88	---	106	---	---
26	---	108	94	90	96	---	77	94	---	100	---	---
27	---	104	94	82	89	---	73	93	---	97	---	---
28	---	104	93	78	92	---	80	97	---	88	---	---
29	---	115	92	83	---	---	77	92	---	80	---	93
30	---	105	89	90	---	---	60	96	---	78	---	94
31	---	---	89	89	---	97	---	96	---	88	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

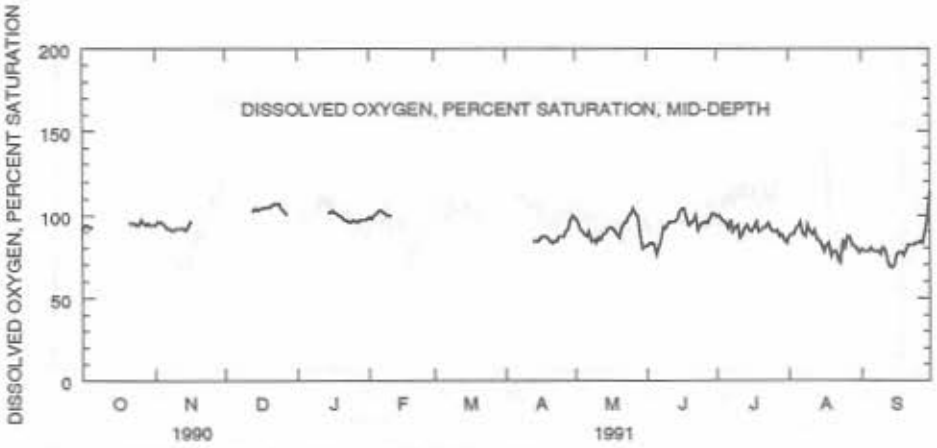
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--12 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 125 percent June 29, 1991; minimum value recorded, 56 percent September 7, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	94	---	---	99	---	---	98	81	99	87	79
2	94	96	---	---	98	---	---	96	83	100	88	78
3	94	96	---	---	100	---	---	92	83	98	88	78
4	93	95	---	---	101	---	---	90	82	96	92	78
5	93	94	---	---	103	---	---	88	76	96	94	80
6	---	92	---	---	103	---	---	87	80	92	96	78
7	---	92	---	---	102	---	---	90	85	97	88	78
8	---	91	---	---	101	---	---	84	93	90	87	78
9	---	91	---	---	100	---	---	85	92	93	94	76
10	---	92	---	---	100	---	---	83	95	94	90	80
11	---	92	---	---	---	---	---	86	96	86	88	79
12	---	92	---	---	---	---	---	85	96	88	91	72
13	---	92	103	---	---	---	84	88	96	92	85	69
14	---	91	104	---	---	---	84	89	98	94	84	68
15	---	93	103	102	---	---	84	92	102	91	82	70
16	---	96	104	103	---	---	86	93	104	90	78	76
17	---	---	104	102	---	---	87	92	104	93	81	77
18	---	---	105	101	---	---	87	91	98	96	83	77
19	---	---	105	100	---	---	86	88	94	90	75	75
20	---	---	105	99	---	---	84	86	95	91	78	79
21	95	---	106	97	---	---	83	92	97	93	78	82
22	95	---	107	97	---	---	84	95	100	93	73	82
23	95	---	107	96	---	---	84	96	91	95	71	82
24	94	---	107	96	---	---	87	99	94	93	85	83
25	94	---	104	97	---	---	87	101	95	90	79	83
26	97	---	103	96	---	---	87	104	96	90	87	---
27	95	---	101	96	---	---	90	101	95	91	86	83
28	94	---	---	97	---	---	92	99	98	87	82	91
29	95	---	---	97	---	---	97	---	101	88	81	97
30	94	---	---	97	---	---	100	80	101	85	79	113
31	94	---	---	98	---	---	---	81	---	83	77	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

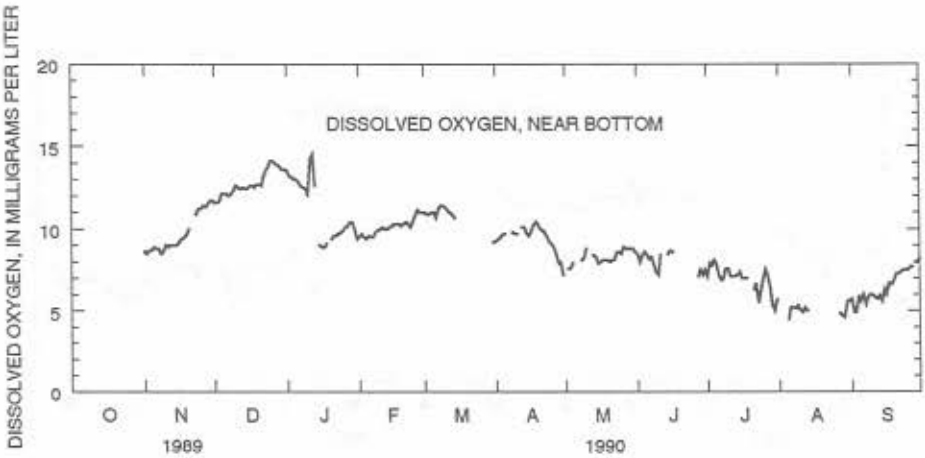
Dissolved Oxygen, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 18.4 mg/L January 11, 1990; minimum value recorded, 2.8 mg/L August 3, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.9	8.6	11.6	13.5	9.5	11.0	9.3	---	8.5	7.1	---	5.7b
2	---	8.5	11.6	13.2	9.7	10.9	9.4	7.6	8.0	7.9	---	4.9b
3	---	8.7	11.7	13.1	9.5	10.9	9.5	7.6	8.4	7.8	4.8b	4.9b
4	---	8.7	12.1	13.0	9.4	11.0	9.7	7.9	8.6	8.1	---	5.9
5	---	8.9	12.1	13.0	9.6	11.0	9.7	---	8.4	7.9	4.5b	5.6b
6	---	8.8	12.1	12.8	9.5	10.7	---	---	8.2	7.2	5.2b	6.0b
7	---	8.8	12.0	12.6	9.5	11.1	---	---	8.3	6.9	5.2b	5.4b
8	---	8.5	12.1	12.5	9.8	11.4	9.8	8.1	7.8	7.0	5.1b	5.8
9	---	8.6	12.3	12.4	9.9	11.4	9.7	8.3	7.4	7.6	5.3b	6.0
10	---	9.0	12.6	12.0	10.0	11.3	9.7	8.8	7.2	7.6	5.0b	6.0
11	---	8.9	12.5	14.2	10.1	11.1	---	---	8.4	7.1	4.9b	5.8
12	---	9.0	12.4	14.5	10.0	11.0	10.1	---	---	7.1	5.2b	5.7b
13	---	9.0	12.5	12.6	10.0	10.9	10.1	8.4	---	7.1	5.0b	5.9
14	---	9.0	12.4	---	10.1	10.7	9.8	8.3	8.5	7.2	---	5.6b
15	---	9.0	12.4	9.0	10.2	---	9.6	7.9	8.7	7.4	---	6.3
16	---	9.3	12.6	8.9	10.3	---	9.8	8.0	8.6	7.0	---	6.0
17	---	9.4	12.6	8.9	10.3	---	10.2	8.1	---	7.0	---	6.7
18	---	9.5	12.5	9.1	10.3	---	10.4	8.1	---	7.0	---	6.6
19	---	9.7	12.7	---	10.2	---	10.3	8.1	---	---	---	6.8
20	---	10.0	12.7	9.4	10.3	---	10.0	8.0	---	---	---	7.3
21	---	---	12.6	9.6	10.4	---	9.9	8.1	---	6.3b	---	7.3
22	---	---	13.1	9.6	10.3	---	9.8	8.1	---	6.7b	---	7.4
23	---	10.9	13.5	9.7	10.1	---	9.5	8.6	---	5.5b	---	7.5
24	---	11.2	13.8	9.8	10.5	---	9.2	8.6	---	6.1b	---	7.5
25	---	11.2	14.1	9.9	10.8	---	9.1	8.5	---	6.9	---	7.5
26	---	11.4	14.1	10.1	11.1	---	8.8	8.9	---	7.5	---	7.7
27	---	11.3	13.9	10.2	11.0	---	8.5	8.8	7.1	7.2	4.8b	7.7
28	---	11.5	13.9	10.4	11.0	---	7.9	8.8	7.5	6.5	4.7b	---
29	---	11.7	13.7	10.4	---	---	8.0	8.8	7.2	5.4b	4.6b	8.0
30	---	11.7	13.6	10.0	---	---	7.2	8.8	7.5	5.0b	5.6	8.2
31	---	---	13.6	9.4	---	9.2	---	8.6	---	5.7b	5.6	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

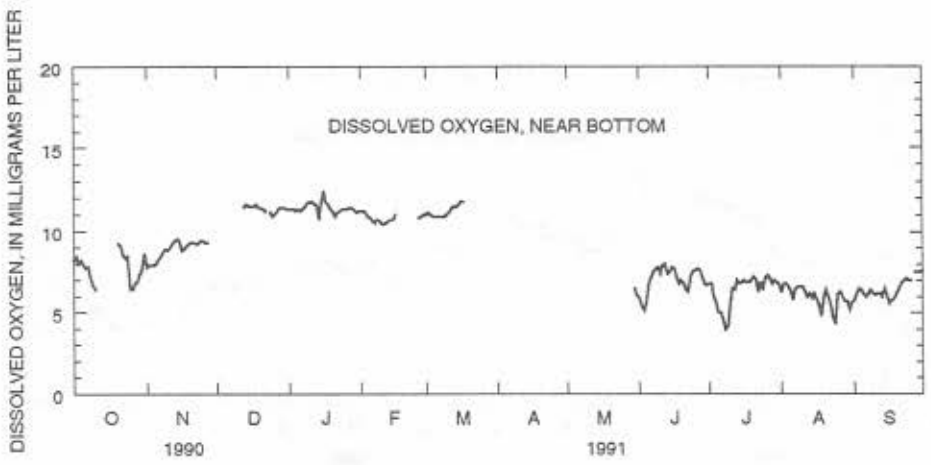
Dissolved Oxygen, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 14.2 mg/L October 24, 1990; minimum value recorded, 3.0 mg/L September 4, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	7.8	---	11.3	11.2	11.0	---	---	5.9b	6.8	6.3	5.8b
2	8.4	7.9	---	11.3	11.2	11.1	---	---	5.4b	6.8	6.8	6.2
3	8.0	7.9	---	11.3	11.1	11.0	---	---	5.1b	6.0	6.8	6.5
4	8.2	7.9	---	11.2	10.9	10.9	---	---	5.6b	5.6b	6.6	6.4b
5	8.0	8.0	---	11.3	10.8	10.9	---	---	6.8	5.0b	6.3	6.2b
6	7.7	8.2	---	11.2	10.6	10.9	---	---	7.1	5.0b	5.8	6.0b
7	7.8	8.4	---	11.3	10.5	10.9	---	---	7.5	4.5b	6.5b	6.2b
8	7.2	8.7	---	11.5	10.7	10.9	---	---	7.7	4.0b	6.6	6.4
9	6.7	8.9	---	11.7	10.6	10.9	---	---	7.8	4.1b	6.6	6.2
10	6.4	8.8	---	11.7	10.4	11.0	---	---	7.4	5.6b	6.6	6.1
11	---	9.0	---	11.8	10.4	11.1	---	---	7.9	6.5	6.3	6.2
12	---	9.2	---	11.6	10.5	11.3	---	---	8.0	6.4	6.0	6.2b
13	---	9.4	11.5	11.6	10.6	11.5	---	---	7.4	7.0	6.2	6.0b
14	---	9.5	11.6	10.7	10.7	11.5	---	---	7.5	6.8	5.9	6.5
15	---	9.4	11.5	11.6	10.7	11.6	---	---	7.8	6.9	6.2	6.0
16	---	8.8	11.5	12.4	11.0	11.8	---	---	7.7	7.0	5.8	5.6b
17	---	8.9	11.5	11.8	---	11.8	---	---	7.2	6.9	5.5b	5.8b
18	---	9.1	11.6	11.6	---	---	---	---	6.8	6.9	4.8b	5.9
19	---	9.2	11.4	11.3	---	---	---	---	7.0	7.0	6.0	6.2
20	9.2	9.3	11.4	11.1	---	---	---	---	6.8	7.2	6.4	6.5
21	9.0	9.3	11.3	10.9	---	---	---	---	6.4	7.0	6.0	6.8
22	8.5	9.2	11.2	11.1	---	---	---	---	6.3b	6.3	5.4b	7.0
23	8.3	9.2	---	11.2	---	---	---	---	7.2	6.9	4.7b	7.1
24	8.4	9.4	11.1	11.3	---	---	---	---	7.5	6.4	4.3b	7.0
25	6.4	9.4	10.9	11.3	---	---	---	---	7.6	7.1	6.1	7.0
26	6.4	9.3	11.0	11.3	10.8	---	---	---	7.7	7.3	6.3	---
27	6.8	9.3	11.2	11.4	10.9	---	---	---	7.6	7.1	6.0	7.5
28	6.9	---	11.4	11.4	11.0	---	---	---	7.2	6.8	5.7b	7.5
29	7.3	---	11.4	11.3	---	---	---	---	6.8	7.0	5.7b	7.5
30	7.6	---	11.4	11.1	---	---	---	6.5	6.7	6.9	5.2b	7.6
31	8.6	---	11.3	11.2	---	---	---	6.1	---	6.7	5.6b	---



DAILY MEAN DISSOLVED OXYGEN, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

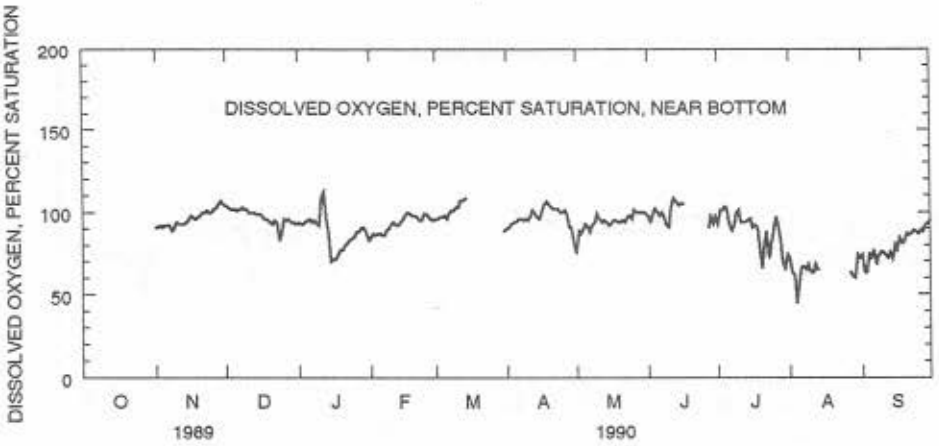
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 142 percent January 11, 1990; minimum value recorded, 35 percent August 4, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	91	104	94	84	96	90	---	98	93	---	74
2	---	91	103	93	87	96	91	88	94	101	---	63
3	---	92	102	93	86	97	93	87	99	101	61	63
4	---	91	102	94	87	97	94	90	102	103	---	74
5	---	92	102	95	87	98	94	---	100	102	57	72
6	---	92	101	96	86	96	---	---	98	93	66	77
7	---	92	102	94	86	99	---	---	100	89	67	68
8	---	89	103	95	89	101	95	92	96	91	65	73
9	---	90	102	93	90	101	96	94	92	99	68	76
10	---	94	102	92	93	103	95	99	91	101	63	76
11	---	93	100	109	94	103	---	---	103	94	63	74
12	---	93	100	112	92	107	101	---	---	94	68	72
13	---	93	100	97	92	107	99	95	---	94	65	75
14	---	94	99	87	94	108	97	94	104	95	---	71
15	---	95	99	70	96	---	96	92	105	96	---	80
16	---	98	99	71	98	---	99	93	105	91	---	77
17	---	97	97	71	100	---	104	95	---	92	---	84
18	---	96	96	74	99	---	106	95	---	91	---	81
19	---	97	96	77	98	---	105	94	---	---	---	82
20	---	98	94	77	98	---	103	94	---	---	---	87
21	---	---	93	80	97	---	102	95	---	81	---	86
22	---	---	95	81	95	---	102	94	---	88	---	87
23	---	101	94	83	95	---	102	97	---	72	---	89
24	---	100	83	84	99	---	100	98	---	79	---	88
25	---	100	87	85	99	---	100	96	---	89	---	87
26	---	102	96	88	97	---	101	101	---	97	---	89
27	---	103	95	88	96	---	99	100	91	93	63	88
28	---	105	96	90	95	---	91	100	97	83	61	---
29	---	107	94	91	---	---	91	100	93	70	60	93
30	---	105	94	88	---	---	81	100	97	65	74	95
31	---	---	93	83	---	89	---	99	---	74	72	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER NEAR EDENHOUSE

Table 7.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 3, Chowan River near Edenhouse, October 1989-September 1991*--Continued

[Location of site 3 is latitude 36°02'52", longitude 76°41'42", Bertie County; U.S. Geological Survey downstream order number 0205365200]

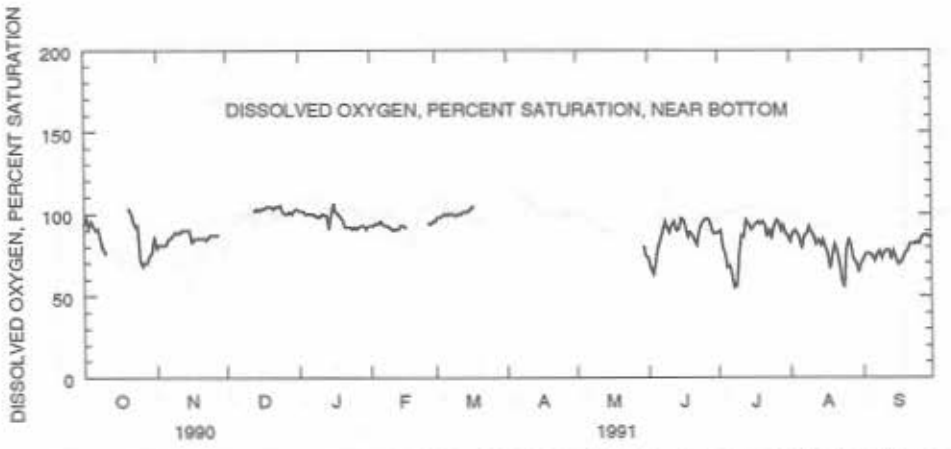
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 159 percent October 24, 1990; minimum value recorded, 34 percent September 4, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	94	79	---	102	93	96	---	---	73	89	83	72
2	97	81	---	102	93	98	---	---	66	90	89	75
3	92	81	---	101	94	98	---	---	63	80	90	76
4	95	81	---	100	94	99	---	---	69	75	88	75
5	93	81	---	100	95	100	---	---	80	67	85	74
6	90	84	---	100	94	99	---	---	83	68	79	71
7	91	85	---	100	93	100	---	---	89	61	87	75
8	85	87	---	99	93	100	---	---	95	55	88	77
9	79	89	---	98	92	99	---	---	92	56	92	73
10	76	88	---	98	91	99	---	---	89	77	89	76
11	---	89	---	100	90	100	---	---	93	87	86	78
12	---	90	---	99	91	100	---	---	95	86	82	78
13	---	90	102	99	91	101	---	---	90	96	84	72
14	---	90	103	91	93	101	---	---	91	94	81	77
15	---	90	102	99	93	102	---	---	97	91	84	72
16	---	83	103	106	92	103	---	---	96	92	79	69
17	---	84	103	101	---	104	---	---	92	94	76	70
18	---	85	104	100	---	---	---	---	86	95	66	73
19	---	85	104	98	---	---	---	---	89	94	76	76
20	103	85	104	95	---	---	---	---	87	95	81	78
21	100	85	103	92	---	---	---	---	83	93	77	82
22	95	84	104	92	---	---	---	---	81	86	68	82
23	92	85	---	92	---	---	---	---	91	91	59	82
24	93	87	105	91	---	---	---	---	94	85	55	83
25	71	87	101	92	---	---	---	---	96	93	78	82
26	68	87	100	91	94	---	---	---	97	96	85	---
27	70	87	100	92	94	---	---	---	96	95	80	87
28	70	---	101	93	95	---	---	---	92	90	72	87
29	74	---	100	93	---	---	---	---	88	93	70	86
30	76	---	102	91	---	---	---	80	88	88	64	86
31	86	---	103	93	---	---	---	74	---	86	69	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CHOWAN RIVER NEAR EDENHOUSE

Table 8.--*Five-day mean water temperature and dissolved-oxygen values in water at site 3, Chowan River near Edenhouse, October 1989-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
10/01/89-10/05/89	21.4	21.4	7.9	7.9	3.1	2.5	7.9	7.9
10/06/89-10/10/89	---	---	---	---	---	---	---	---
10/11/89-10/15/89	---	---	---	---	---	---	---	---
10/16/89-10/20/89	---	---	---	---	---	---	---	---
10/21/89-10/25/89	---	---	---	---	---	---	---	---
10/26/89-10/30/89	---	---	---	---	---	---	---	---
10/31/89-11/04/89	18.0	17.7	8.6	8.6	10.8	10.7	8.6	8.7
11/05/89-11/09/89	17.4	17.3	8.9	8.8	---	---	8.8	8.7
11/10/89-11/14/89	17.4	17.2	9.1	9.1	---	---	8.9	9.0
11/15/89-11/19/89	16.7	16.2	9.5	9.6	---	---	9.4	9.5
11/20/89-11/24/89	12.5	12.0	10.6	10.8	12.4	12.0	10.6	10.8
11/25/89-11/29/89	10.8	10.7	11.3	11.2	12.2	11.4	11.5	11.5
11/30/89-12/04/89	9.8	9.3	11.3	11.3	12.1	12.2	11.7	11.8
12/05/89-12/09/89	7.7	7.5	11.8	11.8	13.1	13.1	12.2	12.2
12/10/89-12/14/89	5.9	5.8	12.3	12.2	13.1	12.9	12.5	12.4
12/15/89-12/19/89	4.5	4.1	12.5	12.5	12.7	12.7	12.6	12.6
12/20/89-12/24/89	<1.0	<1.0	13.2	13.2	13.8	13.9	13.2	13.3
12/25/89-12/29/89	<1.0	<1.0	12.8	12.8	13.7	13.5	13.9	13.9
12/30/89-01/03/90	<1.0	<1.0	12.6	12.6	13.0	12.9	13.4	13.3
01/04/90-01/08/90	2.8	3.0	12.4	12.3	12.4	12.0	12.8	12.7
01/09/90-01/13/90	4.3	4.2	11.8	11.7	11.9	11.5	13.2	12.9
01/14/90-01/18/90	5.5	5.5	11.2	11.1	10.7	10.5	9.4	9.1
01/19/90-01/23/90	7.5	7.4	11.0	10.9	10.4	10.0	9.6	9.6
01/24/90-01/28/90	9.1	9.1	10.6	10.5	9.9	9.4	10.1	10.1
01/29/90-02/02/90	10.0	9.9	10.1	10.0	10.0	9.7	9.8	9.8
02/03/90-02/07/90	11.1	10.9	9.9	9.9	10.0	9.5	9.4	9.6
02/08/90-02/12/90	11.8	11.6	10.1	10.1	9.9	9.9	10.0	10.0
02/13/90-02/17/90	12.7	12.7	10.3	10.3	10.3	10.0	10.2	10.2
02/18/90-02/22/90	12.7	12.5	10.4	10.4	10.2	9.9	10.3	10.3
02/23/90-02/27/90	10.9	10.4	10.9	11.0	10.3	10.4	10.7	10.8
02/28/90-03/04/90	9.8	9.7	11.2	11.1	10.6	10.2	10.9	10.9
03/05/90-03/09/90	10.3	10.1	11.3	11.2	11.3	10.9	11.2	11.1
03/10/90-03/14/90	14.0	13.5	11.1	11.1	11.2	10.5	11.0	11.0
03/15/90-03/19/90	16.0	15.9	---	---	---	---	---	---
03/20/90-03/24/90	15.5	15.0	---	---	---	---	---	---

Table 8.--***Five-day mean water temperature and dissolved-oxygen values in water at site 3, Chowan River near Edenhouse, October 1989-September 1991, for day and night periods***--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
03/25/90-03/29/90	14.1	13.9	---	9.9	---	11.1	---	9.4
03/30/90-04/03/90	13.8	13.6	9.7	9.7	10.1	9.8	9.4	9.4
04/04/90-04/08/90	14.3	14.0	9.7	9.7	10.2	9.9	9.7	9.8
04/09/90-04/13/90	15.0	14.6	9.6	9.6	10.0	9.8	9.9	9.9
04/14/90-04/18/90	15.8	15.7	9.0	8.9	9.5	9.0	10.0	10.0
04/19/90-04/23/90	17.2	17.0	9.1	9.0	9.1	8.5	9.9	9.8
04/24/90-04/28/90	21.7	21.0	8.9	8.8	7.4	6.4	8.7	8.6
04/29/90-05/03/90	21.8	21.6	8.5	8.3	6.8	6.2	7.3	7.5
05/04/90-05/08/90	21.5	21.3	8.1	8.1	7.7	7.5	8.0	8.0
05/09/90-05/13/90	21.2	21.1	8.2	8.0	8.4	7.9	8.5	8.5
05/14/90-05/18/90	22.8	22.4	8.3	8.2	7.8	7.4	8.1	8.0
05/19/90-05/23/90	22.7	22.2	8.2	8.2	7.5	7.5	8.2	8.2
05/24/90-05/28/90	21.8	21.5	8.4	8.3	8.1	8.1	8.7	8.8
05/29/90-06/02/90	22.4	22.2	8.7	8.6	8.3	8.4	8.5	8.5
06/03/90-06/07/90	24.4	24.2	8.7	8.4	8.5	8.6	8.4	8.3
06/08/90-06/12/90	26.1	25.7	8.1	7.6	7.9	7.8	8.0	8.1
06/13/90-06/17/90	25.2	24.8	7.3	7.2	7.2	7.3	8.6	8.7
06/18/90-06/22/90	---	---	---	---	---	---	---	---
06/23/90-06/27/90	28.3	27.8	---	---	---	---	7.0	7.1
06/28/90-07/02/90	28.8	28.1	---	---	---	---	7.4	7.5
07/03/90-07/07/90	28.6	28.2	---	---	---	---	7.5	7.4
07/08/90-07/12/90	29.7	29.4	---	---	---	---	7.4	7.3
07/13/90-07/17/90	29.1	28.7	---	---	---	---	7.1	7.1
07/18/90-07/22/90	29.0	28.6	8.8	7.4	8.7	8.3	6.4	5.8
07/23/90-07/27/90	28.8	28.6	7.5	7.1	7.8	7.6	6.6	6.8
07/28/90-08/01/90	28.6	28.1	5.9	5.1	6.4	6.1	5.7	5.4
08/02/90-08/06/90	28.6	28.0	4.4	4.2	4.9	5.0	4.5	4.6
08/07/90-08/11/90	27.7	27.5	5.6	5.5	5.0	5.1	5.1	5.1
08/12/90-08/16/90	28.9	28.7	7.7	7.9	5.5	5.8	5.0	5.0
08/17/90-08/21/90	---	---	---	---	---	---	---	---
08/22/90-08/26/90	29.3	29.0	5.0	5.1	---	---	5.2	4.9
08/27/90-08/31/90	29.2	28.8	5.7	5.4	---	---	5.1	5.2
09/01/90-09/05/90	28.1	27.6	6.0	5.9	---	---	5.4	5.4
09/06/90-09/10/90	27.8	27.2	6.2	6.3	---	---	5.8	5.9
09/11/90-09/15/90	27.7	27.4	6.5	6.0	---	---	6.0	5.8

Table 8.--*Five-day mean water temperature and dissolved-oxygen values in water at site 3, Chowan River near Edenhouse, October 1989-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
09/16/90-09/20/90	25.6	25.0	6.9	6.8	---	---	6.7	6.8
09/21/90-09/25/90	23.5	23.0	7.2	7.2	---	---	7.4	7.5
09/26/90-09/30/90	22.5	22.2	7.9	7.9	8.2	8.1	7.9	7.9
10/01/90-10/05/90	22.4	22.1	8.3	8.2	8.1	8.1	8.2	8.1
10/06/90-10/10/90	23.7	23.2	8.4	8.0	---	---	7.1	7.2
10/11/90-10/15/90	23.9	23.8	7.9	7.9	---	---	7.5	---
10/16/90-10/20/90	22.2	21.7	8.1	8.2	8.4	8.4	9.5	9.2
10/21/90-10/25/90	20.5	20.2	8.6	8.6	8.5	8.6	8.2	7.6
10/26/90-10/30/90	16.4	15.8	9.5	9.5	9.3	9.3	7.1	7.5
10/31/90-11/04/90	16.2	15.7	9.9	9.7	9.4	9.4	8.0	7.9
11/05/90-11/09/90	15.8	15.5	9.3	9.2	9.1	9.1	8.5	8.5
11/10/90-11/14/90	14.1	13.8	9.6	9.5	9.4	9.4	9.2	9.3
11/15/90-11/19/90	12.6	12.2	---	---	9.9	10.1	9.1	9.0
11/20/90-11/24/90	11.6	11.5	---	---	---	---	9.3	9.3
11/25/90-11/29/90	12.3	12.3	---	---	---	---	9.3	9.3
11/30/90-12/04/90	---	---	---	---	---	---	---	---
12/05/90-12/09/90	---	---	---	---	---	---	---	---
12/10/90-12/14/90	10.3	10.2	11.8	11.8	11.5	11.6	11.5	11.5
12/15/90-12/19/90	10.5	10.4	11.8	11.8	11.6	11.7	11.5	11.5
12/20/90-12/24/90	11.9	11.9	11.5	11.5	11.5	11.4	11.2	11.1
12/25/90-12/29/90	10.5	10.3	11.4	11.4	11.3	11.3	11.2	11.2
12/30/90-01/03/91	10.6	10.5	11.5	11.5	---	---	11.3	11.3
01/04/91-01/08/91	9.7	9.4	11.4	11.4	---	---	11.3	11.4
01/09/91-01/13/91	8.2	8.1	11.6	11.6	---	---	11.7	11.6
01/14/91-01/18/91	8.6	8.5	11.6	11.5	11.9	11.9	11.6	11.6
01/19/91-01/23/91	7.8	7.6	11.1	11.1	11.6	11.6	11.1	11.1
01/24/91-01/28/91	6.4	6.3	11.3	11.3	11.9	11.9	11.3	11.3
01/29/91-02/02/91	7.2	7.1	11.2	11.2	11.8	11.8	11.2	11.2
02/03/91-02/07/91	9.5	9.5	10.9	10.9	11.6	11.6	10.8	10.7
02/08/91-02/12/91	9.1	9.0	10.7	10.6	11.5	11.4	10.5	10.5
02/13/91-02/17/91	8.3	8.0	10.9	10.8	---	---	10.7	10.7
02/18/91-02/22/91	8.8	9.0	---	---	---	---	---	---
02/23/91-02/27/91	9.1	9.0	10.9	10.9	---	---	10.8	10.9
02/28/91-03/04/91	9.9	10.0	10.7	10.6	---	---	11.0	11.0
03/05/91-03/09/91	11.4	11.1	10.1	10.1	--	--	10.9	10.9

Table 8.--*Five-day mean water temperature and dissolved-oxygen values in water at site 3, Chowan River near Edenhouse, October 1989-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
03/10/91-03/14/91	10.2	9.9	10.1	10.1	---	---	11.3	11.3
03/15/91-03/19/91	9.7	9.5	10.2	10.2	---	---	11.7	11.8
03/20/91-03/24/91	12.1	12.2	---	---	---	---	---	---
03/25/91-03/29/91	14.6	14.3	---	---	---	---	---	---
03/30/91-04/03/91	14.5	14.2	---	---	---	---	---	---
04/04/91-04/08/91	15.7	15.2	---	---	---	---	---	---
04/09/91-04/13/91	17.5	17.2	---	---	8.1	8.1	---	---
04/14/91-04/18/91	17.7	17.6	---	---	8.2	8.2	---	---
04/19/91-04/23/91	14.3	14.0	---	---	8.6	8.7	---	---
04/24/91-04/28/91	16.0	15.9	---	---	8.8	8.8	---	---
04/29/91-05/03/91	21.4	20.8	8.5	8.2	8.6	8.5	---	---
05/04/91-05/08/91	19.7	19.2	8.1	8.0	8.0	8.0	---	---
05/09/91-05/13/91	19.7	19.4	8.1	8.0	7.9	7.9	---	---
05/14/91-05/18/91	22.8	22.1	8.8	8.5	7.9	7.9	---	---
05/19/91-05/23/91	22.1	21.8	8.7	8.6	8.0	8.0	---	---
05/24/91-05/28/91	26.0	25.2	9.1	8.7	8.2	8.2	---	---
05/29/91-06/02/91	25.8	25.0	7.8	7.6	6.7	6.7	6.0	6.0
06/03/91-06/07/91	24.5	24.0	7.3	7.2	6.8	6.8	6.4	6.8
06/08/91-06/12/91	24.6	23.7	8.4	8.1	7.9	8.0	7.7	7.8
06/13/91-06/17/91	26.4	26.1	7.9	7.6	8.2	8.1	7.5	7.4
06/18/91-06/22/91	28.2	27.8	---	---	7.5	7.5	6.7	6.7
06/23/91-06/27/91	27.3	27.2	---	---	7.5	7.5	7.5	7.5
06/28/91-07/02/91	29.5	29.1	10.4	10.1	7.7	7.6	6.9	6.7
07/03/91-07/07/91	31.0	30.9	10.9	10.6	7.1	7.0	5.2	4.9
07/08/91-07/12/91	31.8	31.0	10.0	9.4	6.5	6.7	5.4	5.7
07/13/91-07/17/91	31.5	30.7	8.4	8.0	6.9	6.8	6.9	7.0
07/18/91-07/22/91	30.7	30.1	7.6	7.4	6.9	6.9	6.9	6.9
07/23/91-07/27/91	30.0	30.0	7.3	6.8	6.9	6.8	7.0	7.0
07/28/91-08/01/91	28.9	28.5	---	---	6.6	6.6	6.7	6.8
08/02/91-08/06/91	30.6	30.1	---	---	6.8	6.9	6.4	6.4
08/07/91-08/11/91	31.6	31.1	---	---	6.5	6.6	6.6	6.5
08/12/91-08/16/91	31.5	31.3	---	---	6.2	6.1	6.0	6.0
08/17/91-08/21/91	29.1	28.0	---	---	6.1	6.1	5.7	5.9
08/22/91-08/26/91	28.6	28.6	---	---	6.1	6.2	5.3	5.5
08/27/91-08/31/91	27.7	26.0	6.6	6.1	6.4	6.5	5.6	5.6

Table 8.--*Five-day mean water temperature and dissolved-oxygen values in water at site 3, Chowan River near Edenhouse, October 1989-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
09/01/91-09/05/91	24.1	23.5	6.3	6.2	6.6	6.6	6.3	6.2
09/06/91-09/10/91	24.8	25.1	6.7	6.4	6.5	6.4	6.2	6.2
09/11/91-09/15/91	25.7	25.2	6.9	6.5	5.8	5.8	6.2	6.1
09/16/91-09/20/91	25.4	25.1	6.6	6.3	6.3	6.3	6.0	6.2
09/21/91-09/25/91	23.0	23.1	7.1	7.1	7.0	7.1	7.0	7.1
09/26/91-09/30/91	22.5	22.1	7.9	7.9	7.9	8.2	7.5	7.5

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

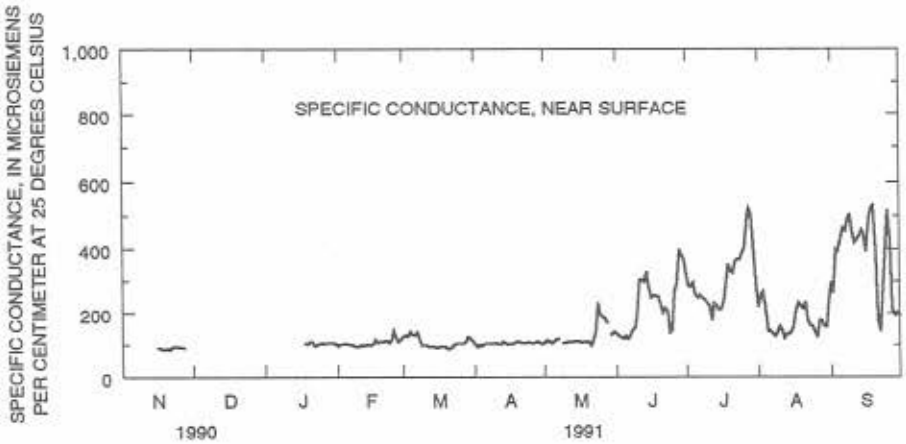
Specific Conductance, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 564 µS/cm September 9, 1991; minimum value recorded, 78 µS/cm November 18, 19, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	95	125	104	105	135	314	220	296
2	---	---	---	102	128	92	113	126	284	258	264
3	---	---	---	102	125	100	112	123	282	266	397
4	---	---	---	103	140	96	104	118	293	214	394
5	---	---	---	102	131	101	109	126	257	142	424
6	---	---	---	99	128	104	117	119	249	144	462
7	---	---	---	99	139	103	117	127	256	134	455
8	---	---	---	95	119	103	---	149	247	126	486
9	---	---	---	94	98	104	105	155	241	139	506
10	---	---	---	93	98	105	106	198	230	159	456
11	---	---	---	100	97	101	109	303	222	149	418
12	---	---	---	96	91	102	110	304	177	121	428
13	---	---	---	99	94	109	109	298	229	134	438
14	---	---	---	100	93	105	112	328	221	133	456
15	---	---	---	98	90	100	111	281	212	142	442
16	89	---	---	104	90	103	110	249	211	156	392
17	87	---	---	115	93	102	107	256	236	210	488
18	85	---	103	105	94	105	108	252	284	230	527
19	83	---	101	108	94	109	110	252	352	222	531
20	87	---	108	109	86	109	108	225	328	215	391
21	83	---	108	111	86	105	97	201	325	235	180
22	91	---	96	111	92	105	112	215	361	177	142
23	94	---	98	105	100	105	137	204	367	162	249
24	94	---	104	117	103	107	230	141	368	159	385
25	92	---	105	145	103	105	195	148	390	142	517
26	91	---	102	121	104	105	187	264	400	123	428
27	89	---	105	110	104	107	184	290	481	177	212
28	---	---	106	116	110	108	172	397	522	175	193
29	---	---	106	---	123	105	---	380	504	159	201
30	---	---	105	---	119	102	132	366	381	159	194
31	---	---	103	---	109	---	140	---	274	239	---



DAILY MEAN SPECIFIC CONDUCTANCE, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

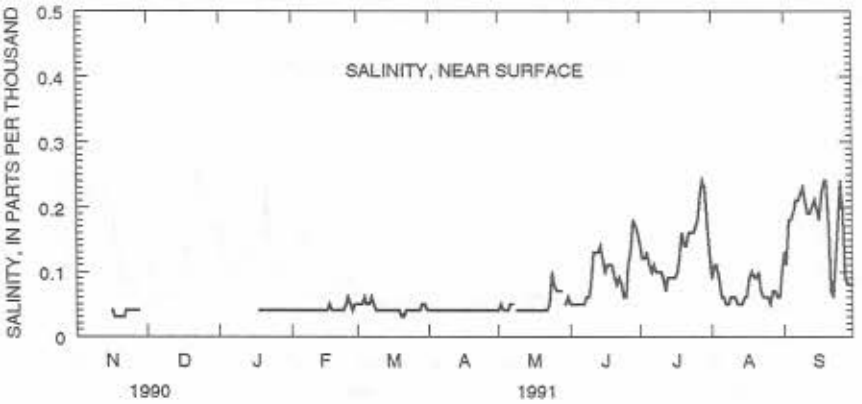
Salinity, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 0.26 ppt September 9, 1991; minimum value recorded, 0.03 ppt November 16-22, 27, 1990, March 14, 15, 16, 19-22, April 2, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	0.04	0.05	0.04	0.04	0.05	0.14	0.09	0.13
2	---	---	---	.04	.05	.04	.05	.05	.12	.11	.11
3	---	---	---	.04	.05	.04	.04	.05	.12	.11	.18
4	---	---	---	.04	.06	.04	.04	.05	.13	.09	.18
5	---	---	---	.04	.05	.04	.04	.05	.11	.06	.19
6	---	---	---	.04	.05	.04	.05	.05	.10	.06	.21
7	---	---	---	.04	.06	.04	.05	.05	.11	.05	.21
8	---	---	---	.04	.05	.04	---	.06	.10	.05	.22
9	---	---	---	.04	.04	.04	.04	.06	.10	.06	.23
10	---	---	---	.04	.04	.04	.04	.08	.10	.06	.21
11	---	---	---	.04	.04	.04	.04	.13	.09	.06	.19
12	---	---	---	.04	.04	.04	.04	.13	.07	.05	.19
13	---	---	---	.04	.04	.04	.04	.13	.09	.05	.20
14	---	---	---	.04	.04	.04	.04	.14	.09	.05	.21
15	---	---	---	.04	.04	.04	.04	.12	.09	.06	.20
16	0.04	---	---	.04	.04	.04	.04	.10	.09	.06	.18
17	.03	---	---	.05	.04	.04	.04	.11	.10	.09	.22
18	.03	---	0.04	.04	.04	.04	.04	.11	.12	.10	.24
19	.03	---	.04	.04	.04	.04	.04	.11	.16	.09	.24
20	.03	---	.04	.04	.03	.04	.04	.09	.14	.09	.17
21	.03	---	.04	.04	.03	.04	.04	.08	.14	.10	.07
22	.04	---	.04	.04	.04	.04	.04	.09	.16	.07	.06
23	.04	---	.04	.04	.04	.04	.05	.08	.16	.06	.11
24	.04	---	.04	.05	.04	.04	.10	.06	.16	.06	.17
25	.04	---	.04	.06	.04	.04	.08	.06	.17	.06	.24
26	.04	---	.04	.05	.04	.04	.07	.11	.18	.05	.19
27	.04	---	.04	.04	.04	.04	.07	.13	.22	.07	.09
28	---	---	.04	.05	.04	.04	.07	.18	.24	.07	.08
29	---	---	.04	---	.05	.04	---	.17	.23	.06	.08
30	---	---	.04	---	.05	.04	.05	.16	.17	.06	.08
31	---	---	.04	---	.04	---	.06	---	.12	.10	---



DAILY MEAN SALINITY, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

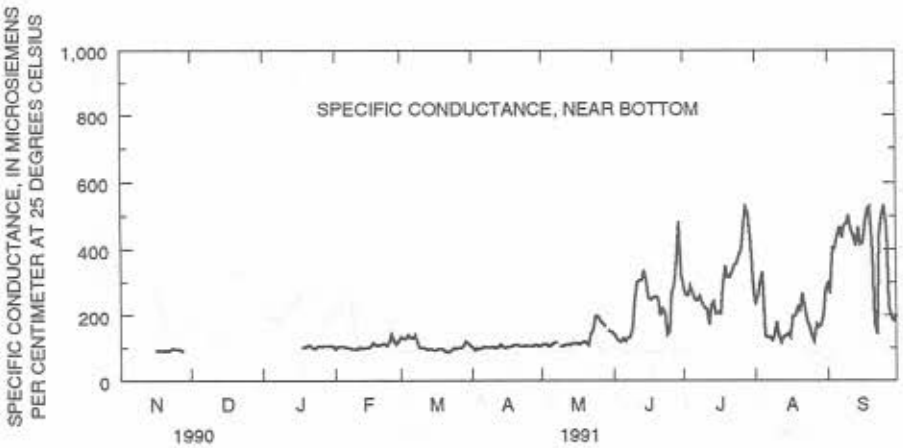
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 618 µS/cm June 29, 1991; minimun value recorded, 81 µS/cm March 21, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	96	132	101	108	140	283	234	296
2	---	---	---	104	128	92	111	133	262	259	265
3	---	---	---	103	126	99	111	121	263	300	404
4	---	---	---	103	139	95	104	119	290	331	401
5	---	---	---	102	131	99	109	128	269	136	439
6	---	---	---	100	129	103	116	121	247	133	466
7	---	---	---	100	138	101	117	130	245	133	435
8	---	---	---	95	120	101	---	133	258	123	472
9	---	---	---	95	99	101	105	163	235	137	477
10	---	---	---	94	100	103	106	239	225	180	502
11	---	---	---	101	99	99	110	302	219	138	457
12	---	---	---	97	93	101	111	307	172	117	437
13	---	---	---	100	96	109	110	307	230	134	412
14	---	---	---	100	96	104	113	336	241	136	466
15	---	---	---	99	92	99	113	309	206	143	414
16	91	---	---	106	92	103	114	250	210	132	419
17	89	---	---	115	95	103	112	246	206	197	484
18	92	---	101	110	95	105	114	256	283	198	520
19	90	---	101	106	96	110	118	259	349	223	526
20	92	---	107	109	87	110	117	251	315	215	390
21	89	---	107	111	86	105	110	200	316	266	176
22	94	---	97	111	87	106	139	218	337	232	142
23	97	---	98	105	94	106	155	205	351	183	437
24	96	---	104	118	99	107	198	141	360	164	500
25	95	---	105	141	98	106	198	148	387	140	531
26	93	---	104	122	100	105	183	267	397	120	463
27	89	---	106	111	100	106	177	292	475	171	226
28	---	---	106	119	106	108	169	371	524	164	192
29	---	---	106	---	119	107	---	482	507	171	184
30	---	---	106	---	116	103	153	323	413	203	196
31	---	---	103	---	106	---	148	---	283	278	---



DAILY MEAN SPECIFIC CONDUCTANCE, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

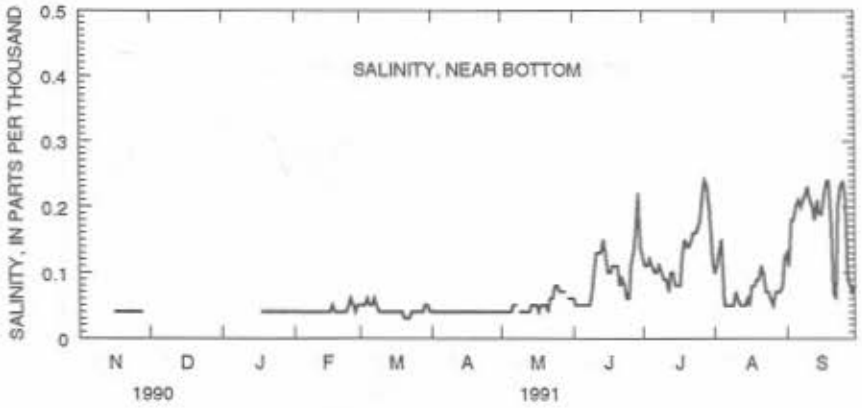
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 0.28 ppt June 29, 1991; minimum value recorded, 0.03 ppt November 17, 18, 19, 27, 1990, February 10, March 16, 19-22, 25, April 2, 4, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	0.04	0.05	0.04	0.04	0.06	0.12	0.10	0.13
2	---	---	---	.04	.05	.04	.04	.05	.11	.11	.11
3	---	---	---	.04	.05	.04	.04	.05	.11	.13	.18
4	---	---	---	.04	.06	.04	.04	.05	.12	.15	.18
5	---	---	---	.04	.05	.04	.04	.05	.11	.05	.20
6	---	---	---	.04	.05	.04	.05	.05	.10	.05	.21
7	---	---	---	.04	.06	.04	.05	.05	.10	.05	.20
8	---	---	---	.04	.05	.04	---	.05	.11	.05	.21
9	---	---	---	.04	.04	.04	.04	.07	.10	.05	.22
10	---	---	---	.04	.04	.04	.04	.10	.09	.07	.23
11	---	---	---	.04	.04	.04	.04	.13	.09	.06	.21
12	---	---	---	.04	.04	.04	.04	.13	.07	.05	.20
13	---	---	---	.04	.04	.04	.04	.13	.10	.05	.18
14	---	---	---	.04	.04	.04	.05	.15	.10	.05	.21
15	---	---	---	.04	.04	.04	.05	.13	.08	.06	.19
16	0.04	---	---	.04	.04	.04	.05	.10	.08	.05	.19
17	.04	---	---	.05	.04	.04	.04	.10	.08	.08	.22
18	.04	---	0.04	.04	.04	.04	.05	.11	.12	.08	.24
19	.04	---	.04	.04	.04	.04	.05	.11	.15	.09	.24
20	.04	---	.04	.04	.03	.04	.05	.11	.14	.09	.17
21	.04	---	.04	.04	.03	.04	.04	.08	.14	.11	.07
22	.04	---	.04	.04	.03	.04	.06	.09	.15	.10	.06
23	.04	---	.04	.04	.04	.04	.06	.08	.16	.07	.20
24	.04	---	.04	.05	.04	.04	.08	.06	.16	.07	.23
25	.04	---	.04	.06	.04	.04	.08	.06	.17	.06	.24
26	.04	---	.04	.05	.04	.04	.07	.11	.18	.05	.21
27	.04	---	.04	.04	.04	.04	.07	.13	.22	.07	.09
28	---	---	.04	.05	.04	.04	.07	.16	.24	.07	.08
29	---	---	.04	---	.05	.04	---	.22	.23	.07	.07
30	---	---	.04	---	.05	.04	.06	.14	.19	.08	.08
31	---	---	.04	---	.04	---	.06	---	.12	.12	---



DAILY MEAN SALINITY, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

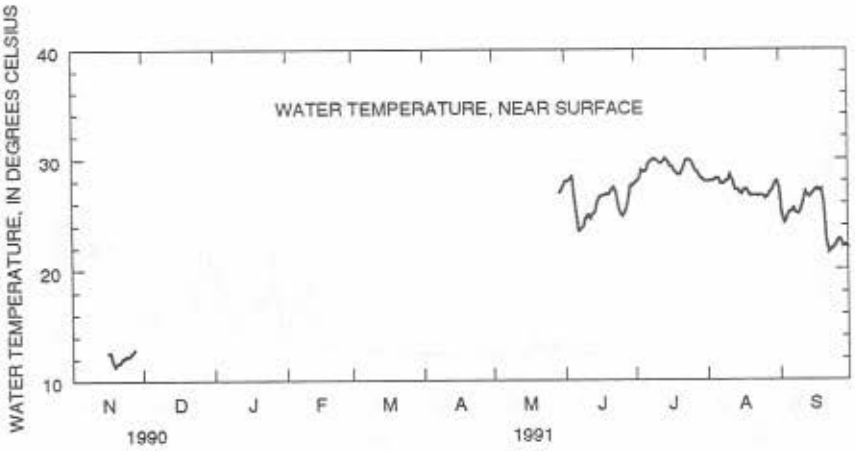
Water Temperature, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 31.3 °C July 8, 1991; minimum value recorded, 10.8 °C November 19, 1990.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	27.9	27.8	27.9	27.2
2	---	---	---	---	---	---	---	27.9	27.9	27.9	25.1
3	---	---	---	---	---	---	---	28.1	28.2	28.0	24.2
4	---	---	---	---	---	---	---	28.4	28.9	28.0	24.4
5	---	---	---	---	---	---	---	26.8	28.8	28.2	25.1
6	---	---	---	---	---	---	---	24.9	28.9	28.2	25.2
7	---	---	---	---	---	---	---	23.5	29.5	27.7	25.5
8	---	---	---	---	---	---	---	23.6	29.8	27.7	25.1
9	---	---	---	---	---	---	---	23.9	30.0	27.9	25.0
10	---	---	---	---	---	---	---	24.6	29.9	28.0	25.3
11	---	---	---	---	---	---	---	24.9	29.6	28.5	25.9
12	---	---	---	---	---	---	---	24.6	29.5	28.0	27.0
13	---	---	---	---	---	---	---	25.0	29.7	27.2	26.7
14	---	---	---	---	---	---	---	25.2	30.0	27.2	26.5
15	---	---	---	---	---	---	---	26.0	29.8	27.0	26.8
16	12.6	---	---	---	---	---	---	26.5	29.3	26.8	27.1
17	12.6	---	---	---	---	---	---	26.7	29.2	27.2	27.3
18	11.7	---	---	---	---	---	---	26.7	28.9	27.2	27.1
19	11.3	---	---	---	---	---	---	26.8	28.6	26.8	27.2
20	11.6	---	---	---	---	---	---	26.8	28.5	26.6	25.6
21	11.7	---	---	---	---	---	---	27.2	28.7	26.7	22.7
22	12.0	---	---	---	---	---	---	27.4	29.2	26.7	21.5
23	12.1	---	---	---	---	---	---	26.9	29.8	26.6	21.7
24	12.3	---	---	---	---	---	---	25.8	29.9	26.7	21.9
25	12.2	---	---	---	---	---	---	25.0	29.8	26.7	22.3
26	12.5	---	---	---	---	---	---	24.8	29.4	26.4	22.7
27	12.8	---	---	---	---	---	---	25.2	28.9	26.6	22.6
28	---	---	---	---	---	---	---	25.9	28.8	26.9	22.1
29	---	---	---	---	---	---	---	27.6	28.4	27.2	22.2
30	---	---	---	---	---	---	27.0	27.5	28.1	27.8	22.0
31	---	---	---	---	---	---	27.4	---	27.9	27.9	---



DAILY MEAN WATER TEMPERATURE, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

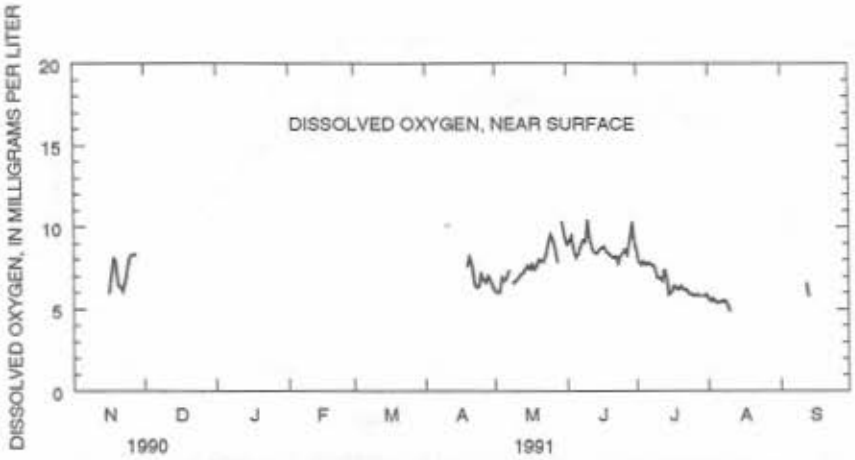
Dissolved Oxygen, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 12.4 mg/L May 30, June 10, 1991; minimum value recorded, 4.6 mg/L August 10, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	6.1	8.9	8.5	5.6	---
2	---	---	---	---	---	---	6.0	9.1	7.9	5.5	---
3	---	---	---	---	---	---	6.0	9.4	7.7	5.6	---
4	---	---	---	---	---	---	6.9	8.5	7.9	5.4	---
5	---	---	---	---	---	---	6.7	8.1	7.7	5.4	---
6	---	---	---	---	---	---	6.9	8.4	7.8	5.4	---
7	---	---	---	---	---	---	7.3	8.8	7.7	5.5	---
8	---	---	---	---	---	---	---	9.2	7.7	5.5	---
9	---	---	---	---	---	---	6.6	9.1	7.4	5.3	---
10	---	---	---	---	---	---	6.7	10.4	6.9	4.9b	---
11	---	---	---	---	---	---	6.9	9.2	6.9	---	---
12	---	---	---	---	---	---	7.1	8.6	6.7	---	6.5
13	---	---	---	---	---	---	7.2	8.4	7.4	---	5.8
14	---	---	---	---	---	---	7.4	8.4	6.9	---	---
15	---	---	---	---	---	---	7.6	8.6	5.9	---	---
16	6.0	---	---	---	---	---	7.4	8.7	6.0	---	---
17	6.9	---	---	---	---	---	7.7	8.8	6.4	---	---
18	8.1	---	---	---	---	---	7.4	8.5	6.3	---	---
19	7.8	---	---	---	---	7.6	7.6	8.4	6.2	---	---
20	6.4	---	---	---	---	8.1	8.0	8.2	6.4	---	---
21	6.3	---	---	---	---	7.7	7.9	8.1	6.2	---	---
22	6.1	---	---	---	---	6.5	7.9	8.2	6.2	---	---
23	6.7	---	---	---	---	6.3	8.3	7.8	6.1	---	---
24	7.5	---	---	---	---	6.4	9.1	8.2	5.9	---	---
25	8.2	---	---	---	---	7.1	9.5	8.4	5.9	---	---
26	8.3	---	---	---	---	6.8	9.2	8.6	5.8	---	---
27	8.3	---	---	---	---	6.6	8.7	8.3	5.9	---	---
28	---	---	---	---	---	7.0	7.9	9.2	5.8	---	---
29	---	---	---	---	---	6.7	---	10.3	5.8	---	---
30	---	---	---	---	---	6.4	10.3	9.2	5.8	---	---
31	---	---	---	---	---	---	9.4	---	5.9	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

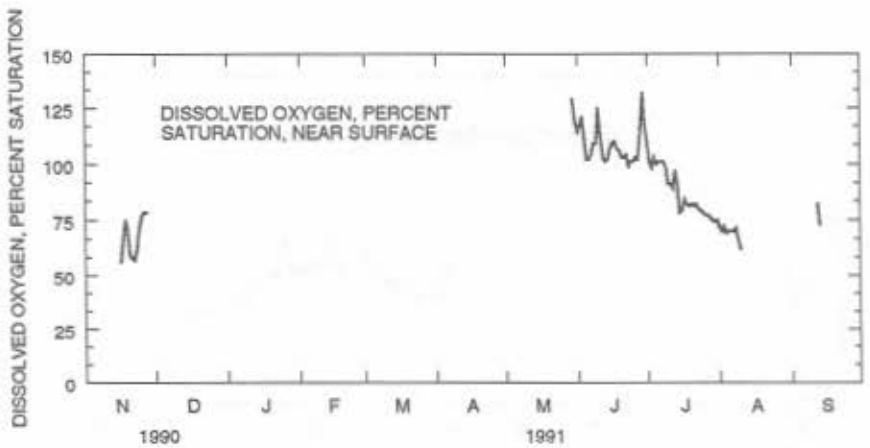
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 164 percent June 29, 1991; minimum value recorded, 55 percent November 16, 20, 22, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	114	109	72	---
2	---	---	---	---	---	---	---	116	101	70	---
3	---	---	---	---	---	---	---	121	98	72	---
4	---	---	---	---	---	---	---	110	103	69	---
5	---	---	---	---	---	---	---	102	100	70	---
6	---	---	---	---	---	---	---	102	101	70	---
7	---	---	---	---	---	---	---	104	101	70	---
8	---	---	---	---	---	---	---	109	101	71	---
9	---	---	---	---	---	---	---	109	98	67	---
10	---	---	---	---	---	---	---	125	91	62	---
11	---	---	---	---	---	---	---	112	91	---	---
12	---	---	---	---	---	---	---	103	89	---	82
13	---	---	---	---	---	---	---	101	97	---	73
14	---	---	---	---	---	---	---	102	91	---	---
15	---	---	---	---	---	---	---	106	78	---	---
16	56	---	---	---	---	---	---	109	79	---	---
17	65	---	---	---	---	---	---	110	84	---	---
18	74	---	---	---	---	---	---	107	82	---	---
19	72	---	---	---	---	---	---	106	81	---	---
20	59	---	---	---	---	---	---	103	82	---	---
21	58	---	---	---	---	---	---	103	81	---	---
22	57	---	---	---	---	---	---	104	82	---	---
23	62	---	---	---	---	---	---	99	80	---	---
24	70	---	---	---	---	---	---	101	79	---	---
25	76	---	---	---	---	---	---	101	78	---	---
26	78	---	---	---	---	---	---	103	77	---	---
27	78	---	---	---	---	---	---	102	77	---	---
28	---	---	---	---	---	---	---	114	76	---	---
29	---	---	---	---	---	---	---	132	75	---	---
30	---	---	---	---	---	---	129	117	74	---	---
31	---	---	---	---	---	---	119	---	75	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

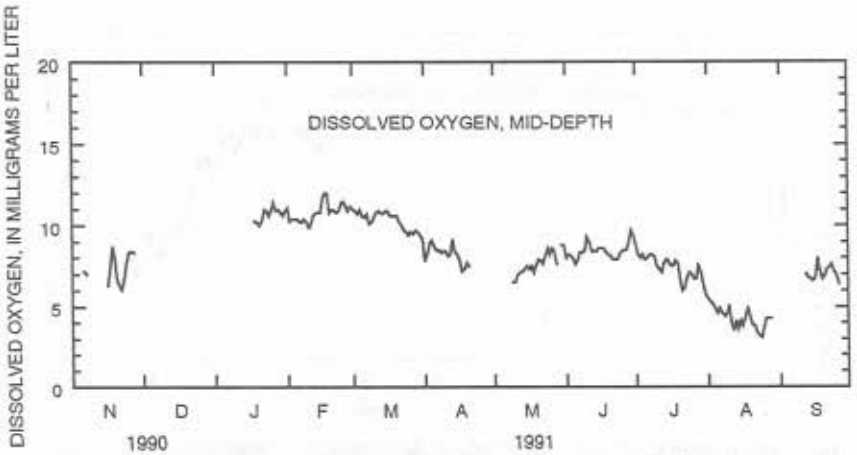
Dissolved Oxygen, Mid-Depth

Sensor Position.--6 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 12.2 mg/L February 17, 18, 1991; minimum value recorded, 2.5 mg/L August 24, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	11.1	11.0	7.8	---	8.0	8.7	5.5b	---
2	---	---	---	10.3	10.9	8.2	---	8.2	8.2	5.3b	---
3	---	---	---	10.4	10.7	8.9	---	8.1	8.0	5.2b	---
4	---	---	---	10.4	11.0	9.1	---	7.9	8.2	4.9b	---
5	---	---	---	10.4	10.6	8.7	---	7.6	7.9	4.6b	---
6	7.2	---	---	10.3	10.5	8.5	---	7.9	8.0	4.9b	---
7	7.0	---	---	10.2	10.7	8.5	---	8.3	8.2	4.6b	---
8	---	---	---	10.4	10.1	8.3	---	8.3	8.2	4.4b	---
9	---	---	---	10.3	10.2	8.4	6.5	8.5	8.0	4.5b	---
10	---	---	---	9.9	10.4	8.4	6.5	9.3	7.5	5.1b	---
11	---	---	---	10.0	10.8	8.1	6.9	9.0	7.3	4.1b	---
12	---	---	---	10.6	10.9	8.2	7.1	8.4	7.1	3.5b	7.0
13	---	---	---	10.8	10.8	9.2	7.2	8.4	7.6	4.1b	6.8
14	---	---	---	10.8	10.7	8.4	7.3	8.4	7.9	3.6b	6.7
15	---	---	---	10.8	10.9	8.2	7.5	8.6	7.8	4.1b	6.6
16	6.3	---	---	11.7	10.9	7.8	7.3	8.6	7.5	3.8b	6.7
17	7.3	---	---	12.0	10.6	7.2	7.5	8.6	7.5	4.3b	8.0
18	8.7	---	10.3	12.0	10.6	7.3	7.1	8.4	7.8	5.0b	7.1
19	8.1	---	10.2	10.8	10.6	7.7	7.5	8.2	7.7	4.3b	6.7
20	6.6	---	10.0	11.0	10.6	7.5	7.9	8.1	6.6	3.9b	6.9
21	6.3	---	10.3	10.9	10.3	---	7.8	7.9	6.0	3.8b	7.3
22	6.1	---	11.0	10.8	10.0	---	7.6	7.9	6.2	3.4b	7.4
23	6.7	---	10.9	10.9	9.7	---	8.1	7.9	6.7	3.2b	7.6
24	7.6	---	10.6	11.4	9.6	---	8.6	8.2	7.1	3.1b	7.2
25	8.3	---	11.0	11.5	9.4	---	8.2	8.4	7.0	3.7b	6.9
26	8.4	---	11.4	11.2	9.6	---	8.6	8.5	6.7	4.3b	6.4
27	8.3	---	10.9	10.9	9.5	---	8.4	8.5	6.7	4.3b	---
28	---	---	11.0	11.2	9.7	---	7.6	9.0	7.5	4.3b	---
29	---	---	10.8	---	9.6	---	---	9.7	7.1	---	---
30	---	---	10.6	---	9.4	---	8.8	9.4	6.3	---	---
31	---	---	10.9	---	9.2	---	8.8	---	5.7b	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

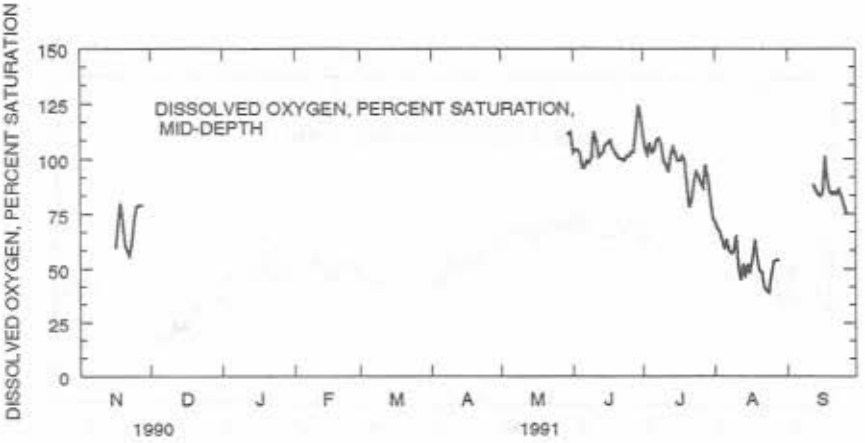
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--6 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 153 percent June 29, 1991; minimum value recorded, 31 percent August 24, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	103	111	71	---
2	---	---	---	---	---	---	---	104	105	68	---
3	---	---	---	---	---	---	---	104	102	67	---
4	---	---	---	---	---	---	---	102	107	63	---
5	---	---	---	---	---	---	---	96	103	59	---
6	---	---	---	---	---	---	---	96	104	63	---
7	---	---	---	---	---	---	---	99	108	58	---
8	---	---	---	---	---	---	---	98	109	57	---
9	---	---	---	---	---	---	---	101	106	58	---
10	---	---	---	---	---	---	---	112	99	65	---
11	---	---	---	---	---	---	---	109	97	52	---
12	---	---	---	---	---	---	---	101	94	45	88
13	---	---	---	---	---	---	---	102	101	52	86
14	---	---	---	---	---	---	---	103	105	46	84
15	---	---	---	---	---	---	---	106	103	52	83
16	60	---	---	---	---	---	---	107	99	48	84
17	69	---	---	---	---	---	---	108	99	54	101
18	80	---	---	---	---	---	---	105	101	63	89
19	74	---	---	---	---	---	---	103	99	54	85
20	61	---	---	---	---	---	---	101	86	49	84
21	58	---	---	---	---	---	---	100	78	48	85
22	56	---	---	---	---	---	---	100	81	42	84
23	62	---	---	---	---	---	---	99	89	40	86
24	71	---	---	---	---	---	---	101	94	39	83
25	78	---	---	---	---	---	---	101	92	46	79
26	79	---	---	---	---	---	---	103	89	53	75
27	79	---	---	---	---	---	---	103	87	54	---
28	---	---	---	---	---	---	---	112	97	54	---
29	---	---	---	---	---	---	---	124	92	---	---
30	---	---	---	---	---	---	111	120	81	---	---
31	---	---	---	---	---	---	112	---	73	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

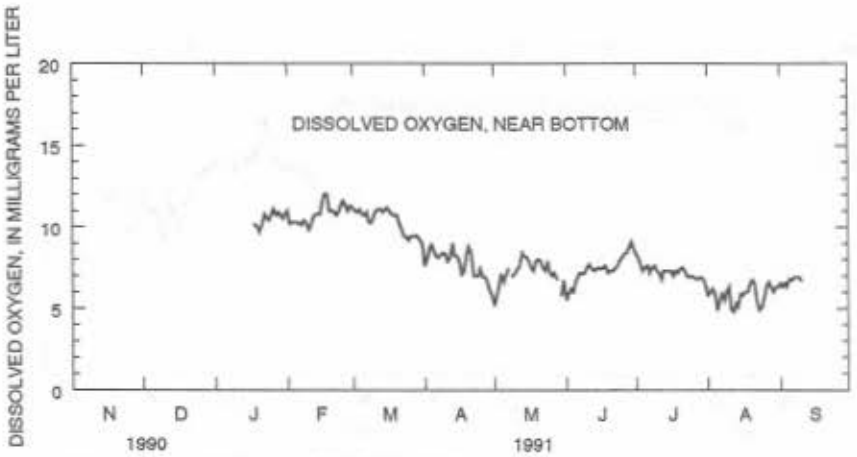
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 12.1 mg/L February 17, 18, 1991; minimum value recorded, 3.4 mg/L August 24, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	11.0	11.2	7.6	5.2b	5.5b	8.3	5.8	6.5
2	---	---	---	10.2	11.0	8.0	5.8b	5.8b	8.1	6.0	6.3
3	---	---	---	10.3	10.9	8.7	6.3	6.2	7.7	6.2	6.5
4	---	---	---	10.3	11.1	8.9	7.1	6.0b	7.3	5.9	6.3
5	---	---	---	10.3	10.8	8.5	6.6	6.6	7.5	4.9b	6.8
6	---	---	---	10.2	10.7	8.2	7.0	6.9	7.6	5.4b	6.7
7	---	---	---	10.1	10.9	8.1	7.4	7.2	7.2	5.9	6.9
8	---	---	---	10.4	10.3	8.3	---	7.1	7.5	5.5b	6.9
9	---	---	---	10.3	10.3	8.4	7.0	7.2	7.6	6.0	6.9
10	---	---	---	9.8	10.6	8.3	7.2	7.5	7.3	6.3	6.7
11	---	---	---	10.0	11.0	7.9	7.4	7.7	7.2	5.0b	---
12	---	---	---	10.6	11.1	8.1	7.6	7.4	6.8	4.8b	---
13	---	---	---	10.8	11.1	9.0	8.4	7.3	7.3	5.3b	---
14	---	---	---	10.8	10.9	8.2	8.2	7.4	7.3	5.1b	---
15	---	---	---	10.8	11.1	8.2	8.1	7.5	7.3	5.9b	---
16	---	---	---	11.7	11.2	7.8	7.8	7.4	7.3	5.8	---
17	---	---	---	12.0	10.9	7.1	7.5	7.5	7.0	6.0b	---
18	---	---	10.1	12.0	10.8	7.3	7.3	7.6	7.3	6.0b	---
19	---	---	10.0	11.0	10.7	8.3	7.8	7.2	7.2	6.5	---
20	---	---	9.7	11.0	10.7	8.8	8.0	7.3	7.4	6.7	---
21	---	---	10.1	10.9	10.3	8.4	7.9	7.3	7.5	6.5	---
22	---	---	10.8	10.7	9.9	7.0	7.5	7.4	7.3	5.5b	---
23	---	---	10.6	10.9	9.4	7.0	7.3	7.6	7.0	4.9b	---
24	---	---	10.4	11.4	9.4	7.0	7.9	7.9	6.9	5.1b	---
25	---	---	10.8	11.6	9.2	7.4	7.2	8.1	7.0	5.5	---
26	---	---	11.1	11.3	9.4	6.9	7.0	8.3	6.9	6.3	---
27	---	---	10.7	11.0	9.4	6.9	7.2	8.4	6.8	6.6	---
28	---	---	10.9	11.3	9.5	6.6	6.8	8.7	6.8	6.3	---
29	---	---	10.7	---	9.4	6.1	---	9.1	6.9	6.0	---
30	---	---	10.5	---	9.2	5.8	5.8b	8.7	6.8	6.3	---
31	---	---	10.8	---	8.9	---	6.7	---	6.3	6.3	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE RIVER AT LIGHT 1

Table 9.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 4, Roanoke River at light 1, November 1990-September 1991*--Continued

[Location of site 4 is latitude 35°57'17", longitude 76°39'52", Washington County; U.S. Geological Survey downstream order number 0208411443]

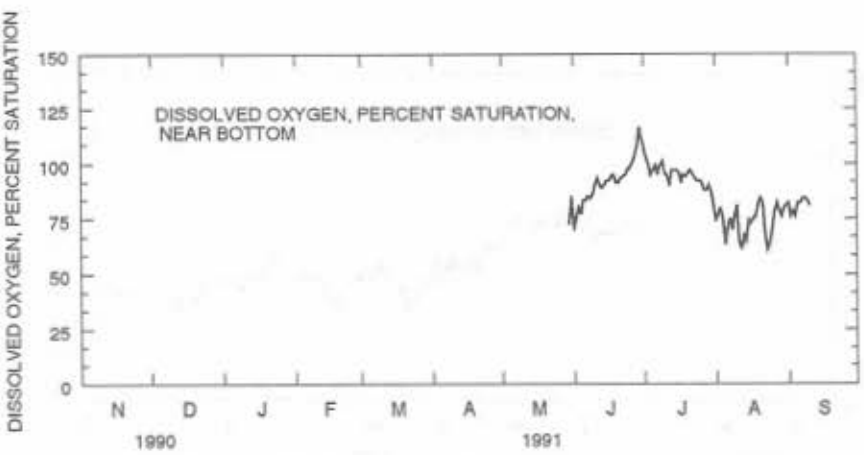
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for November 1990 through September 1991.--Maximum value recorded, 152 percent June 29, 1991; minimum value recorded, 43 percent August 24, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), NOVEMBER 1990-SEPTEMBER 1991

Day	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	70	106	74	82
2	---	---	---	---	---	---	---	75	103	77	76
3	---	---	---	---	---	---	---	80	100	80	78
4	---	---	---	---	---	---	---	77	95	75	76
5	---	---	---	---	---	---	---	83	97	63	82
6	---	---	---	---	---	---	---	83	99	70	82
7	---	---	---	---	---	---	---	85	95	75	84
8	---	---	---	---	---	---	---	84	99	70	84
9	---	---	---	---	---	---	---	86	101	76	83
10	---	---	---	---	---	---	---	90	96	81	81
11	---	---	---	---	---	---	---	93	94	65	---
12	---	---	---	---	---	---	---	90	90	61	---
13	---	---	---	---	---	---	---	89	97	67	---
14	---	---	---	---	---	---	---	90	97	65	---
15	---	---	---	---	---	---	---	92	97	74	---
16	---	---	---	---	---	---	---	92	96	73	---
17	---	---	---	---	---	---	---	94	91	75	---
18	---	---	---	---	---	---	---	95	95	76	---
19	---	---	---	---	---	---	---	91	94	82	---
20	---	---	---	---	---	---	---	91	96	84	---
21	---	---	---	---	---	---	---	93	97	82	---
22	---	---	---	---	---	---	---	94	95	69	---
23	---	---	---	---	---	---	---	95	93	61	---
24	---	---	---	---	---	---	---	97	92	64	---
25	---	---	---	---	---	---	---	98	92	69	---
26	---	---	---	---	---	---	---	100	91	78	---
27	---	---	---	---	---	---	---	103	88	82	---
28	---	---	---	---	---	---	---	107	88	79	---
29	---	---	---	---	---	---	---	116	90	76	---
30	---	---	---	---	---	---	73	111	87	80	---
31	---	---	---	---	---	---	85	---	80	81	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE RIVER AT LIGHT 1

Table 10.--*Five-day mean water temperature and dissolved-oxygen values in water at site 4, Roanoke River at light 1, November 1990-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
10/31/90-11/04/90	---	---	---	---	---	---	---	---
11/05/90-11/09/90	16.9	16.7	6.4	6.3	7.2	7.0	---	---
11/10/90-11/14/90	---	---	---	---	---	---	---	---
11/15/90-11/19/90	12.2	12.0	7.2	7.0	7.5	7.4	---	---
11/20/90-11/24/90	12.1	11.9	6.6	6.8	6.7	6.8	---	---
11/25/90-11/29/90	12.6	12.5	8.3	8.3	8.4	8.4	---	---
11/30/90-12/04/90	---	---	---	---	---	---	---	---
12/05/90-12/09/90	---	---	---	---	---	---	---	---
12/10/90-12/14/90	---	---	---	---	---	---	---	---
12/15/90-12/19/90	---	---	---	---	---	---	---	---
12/20/90-12/24/90	---	---	---	---	---	---	---	---
12/25/90-12/29/90	---	---	---	---	---	---	---	---
12/30/90-01/03/91	---	---	---	---	---	---	---	---
01/04/91-01/08/91	---	---	---	---	---	---	---	---
01/09/91-01/13/91	---	---	---	---	---	---	---	---
01/14/91-01/18/91	---	---	9.9	9.6	10.3	10.4	10.1	10.2
01/19/91-01/23/91	---	---	---	---	10.5	10.5	10.3	10.2
01/24/91-01/28/91	---	---	---	---	11.0	11.0	10.8	10.9
01/29/91-02/02/91	---	---	---	---	10.7	10.6	10.6	10.5
02/03/91-02/07/91	---	---	---	---	10.3	10.3	10.2	10.2
02/08/91-02/12/91	---	---	---	---	10.3	10.3	10.3	10.3
02/13/91-02/17/91	---	---	---	---	11.3	11.4	11.3	11.4
02/18/91-02/22/91	---	---	---	---	11.1	10.9	11.1	11.0
02/23/91-02/27/91	---	---	---	---	11.2	11.2	11.2	11.3
02/28/91-03/04/91	---	---	---	---	10.9	10.9	11.1	11.1
03/05/91-03/09/91	---	---	---	---	10.4	10.4	10.5	10.6
03/10/91-03/14/91	---	---	---	---	10.8	10.7	11.0	11.0
03/15/91-03/19/91	---	---	---	---	10.7	10.7	10.9	10.9
03/20/91-03/24/91	---	---	---	---	10.0	9.9	9.9	9.8
03/25/91-03/29/91	---	---	---	---	9.6	9.6	9.4	9.4
03/30/91-04/03/91	---	---	---	---	8.7	8.6	8.5	8.5
04/04/91-04/08/91	---	---	---	---	8.6	8.5	8.4	8.3
04/09/91-04/13/91	---	---	---	---	8.5	8.5	8.3	8.4
04/14/91-04/18/91	---	---	6.8	7.3	7.7	7.7	7.6	7.8
04/19/91-04/23/91	---	---	7.2	7.1	7.6	7.6	7.9	7.8

Table 10.--***Five-day mean water temperature and dissolved-oxygen values in water at site 4, Roanoke River at light 1, November 1990-September 1991, for day and night periods***--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
04/24/91-04/28/91	---	---	6.8	6.8	---	---	6.8	6.9
04/29/91-05/03/91	---	---	6.3	6.1	---	---	5.7	6.1
05/04/91-05/08/91	---	---	7.0	6.9	6.9	6.5	7.0	7.1
05/09/91-05/13/91	---	---	7.0	7.0	6.8	6.9	7.5	7.7
05/14/91-05/18/91	---	---	7.6	7.4	7.4	7.4	7.7	7.8
05/19/91-05/23/91	---	---	8.0	8.0	7.8	7.9	7.7	7.8
05/24/91-05/28/91	---	---	9.2	8.4	8.3	8.2	6.9	7.3
05/29/91-06/02/91	27.4	27.4	9.7	9.1	8.4	8.4	5.8	6.1
06/03/91-06/07/91	26.3	25.6	8.8	8.6	8.0	8.1	6.7	6.6
06/08/91-06/12/91	24.5	24.4	9.5	9.0	8.6	8.8	7.3	7.5
06/13/91-06/17/91	26.2	25.9	8.7	8.4	8.6	8.4	7.4	7.5
06/18/91-06/22/91	27.1	26.9	8.5	8.0	8.1	8.0	7.4	7.4
06/23/91-06/27/91	25.6	25.2	8.3	8.3	8.4	8.4	8.1	8.2
06/28/91-07/02/91	27.5	27.6	9.2	8.6	9.0	8.9	8.4	8.6
07/03/91-07/07/91	29.0	28.9	7.9	7.6	8.1	8.0	7.5	7.4
07/08/91-07/12/91	29.9	29.6	7.3	6.9	7.7	7.5	7.2	7.3
07/13/91-07/17/91	29.8	29.3	6.6	6.3	7.8	7.6	7.2	7.3
07/18/91-07/22/91	29.0	28.7	6.3	6.2	6.9	6.6	7.3	7.4
07/23/91-07/27/91	29.7	29.3	6.0	5.8	7.0	6.9	6.9	6.9
07/28/91-08/01/91	28.3	28.0	5.8	5.7	6.4	6.1	6.5	6.4
08/02/91-08/06/91	28.2	28.0	5.5	5.4	5.0	4.8	5.6	5.8
08/07/91-08/11/91	28.1	27.9	5.3	5.2	4.5	4.4	5.6	5.7
08/12/91-08/16/91	27.3	27.0	---	---	3.8	4.0	5.4	5.7
08/17/91-08/21/91	27.0	26.8	---	---	4.3	4.1	6.3	6.3
08/22/91-08/26/91	26.7	26.5	---	---	3.6	3.5	5.4	5.5
08/27/91-08/31/91	27.4	27.3	---	---	4.4	4.2	6.3	6.4
09/01/91-09/05/91	25.3	24.7	---	---	---	---	6.4	6.6
09/06/91-09/10/91	25.4	25.1	---	---	---	---	6.8	6.8
09/11/91-09/15/91	26.8	26.7	6.4	6.1	6.8	6.7	6.7	---
09/16/91-09/20/91	26.9	26.2	---	---	7.1	7.1	---	---
09/21/91-09/25/91	22.1	21.9	---	---	7.3	7.2	---	---
09/26/91-09/30/91	22.5	22.1	---	---	6.4	6.4	---	---

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

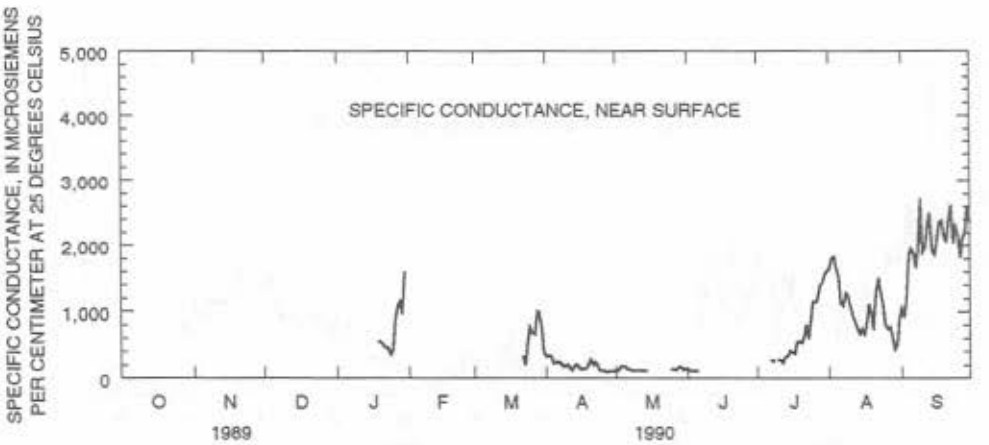
Specific Conductance, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 3,280 µS/cm September 22, 1990; minimum value recorded, 92 µS/cm April 27, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	330	117	128	---	1,650	1,050
2	---	---	---	---	---	---	346	118	120	---	1,810	926
3	---	---	---	---	---	---	332	175	116	---	1,820	1,140
4	---	---	---	---	---	---	226	189	107	---	1,660	1,850
5	---	---	---	---	---	---	237	174	116	---	1,520	1,950
6	---	---	---	---	---	---	250	139	---	---	1,140	1,890
7	---	---	---	---	---	---	224	135	---	266	1,090	1,670
8	---	---	---	---	---	---	191	121	---	260	1,280	1,910
9	---	---	---	---	---	---	189	115	---	---	1,260	2,720
10	---	---	---	---	---	---	206	122	---	273	1,080	1,900
11	---	---	---	---	---	---	170	116	---	266	948	1,970
12	---	---	---	---	---	---	133	120	---	240	863	2,330
13	---	---	---	---	---	---	200	122	---	318	743	2,500
14	---	---	---	---	---	---	210	118	---	334	683	1,950
15	---	---	---	---	---	---	164	---	---	412	732	1,840
16	---	---	---	---	---	---	139	---	---	398	669	2,040
17	---	---	---	---	---	---	150	---	---	377	784	2,350
18	---	---	---	---	---	---	143	---	---	542	1,110	2,380
19	---	---	---	554	---	---	198	---	---	549	959	2,160
20	---	---	---	531	---	---	278	---	---	525	737	2,050
21	---	---	---	483	---	---	202	---	---	630	1,290	2,340
22	---	---	---	475	---	320	231	---	---	796	1,510	2,620
23	---	---	---	448	---	206	196	---	---	604	1,310	2,040
24	---	---	---	368	---	561	130	---	---	842	1,130	2,330
25	---	---	---	464	---	769	115	135	---	1,150	817	2,150
26	---	---	---	876	---	691	106	136	---	1,150	750	1,820
27	---	---	---	1,080	---	669	101	132	---	1,200	762	2,110
28	---	---	---	1,150	---	997	106	175	---	1,410	649	2,200
29	---	---	---	977	---	988	106	181	---	1,430	446	2,590
30	---	---	---	1,590	---	751	112	127	---	1,560	508	2,360
31	---	---	---	---	---	398	---	146	---	1,620	880	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--**Continued**

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

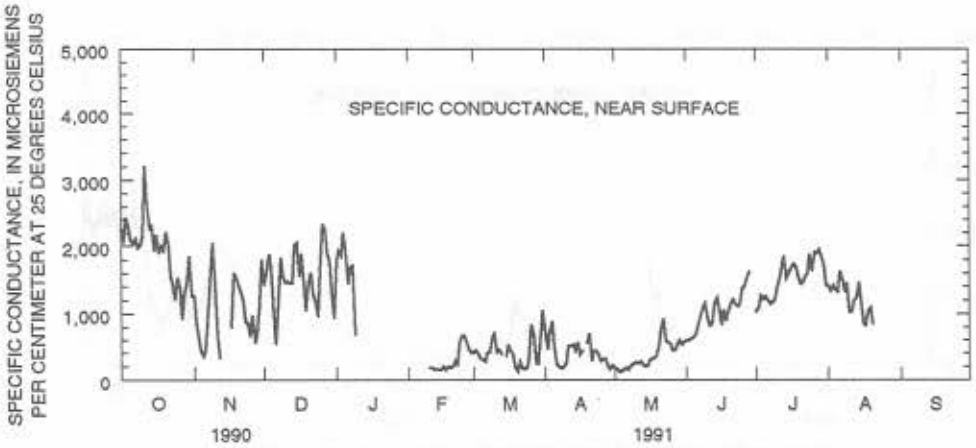
Specific Conductance, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 3,410 µS/cm October 12, 1990; minimum value recorded, 96 µS/cm May 3, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,240	1,260	1,420	1,800	---	409	711	171	603	1,040	1,410	---
2	2,060	867	1,640	1,920	---	444	460	162	599	1,090	1,340	---
3	2,430	598	1,870	1,860	---	380	739	122	631	1,270	1,410	---
4	2,290	425	1,680	2,200	---	314	884	131	635	1,220	1,360	---
5	2,100	360	987	1,920	---	310	497	162	694	1,260	1,330	---
6	2,030	449	542	1,440	---	275	226	183	838	1,200	1,630	---
7	2,110	1,020	1,170	1,690	---	399	189	145	973	1,150	1,520	---
8	1,970	1,620	1,820	1,710	---	411	170	209	1,110	1,170	1,320	---
9	2,000	2,040	1,550	687	---	638	193	246	1,160	1,210	1,450	---
10	2,160	1,420	1,460	---	181	701	262	264	929	1,400	1,030	---
11	3,210	636	1,480	---	178	423	511	248	824	1,490	1,040	---
12	2,610	333	1,450	---	153	449	513	276	842	1,700	1,190	---
13	2,270	---	1,450	---	162	396	535	234	1,160	1,840	1,240	---
14	2,300	---	2,000	---	148	---	448	198	1,240	1,530	1,460	---
15	1,930	---	2,040	---	146	367	569	213	1,080	1,610	1,190	---
16	2,170	---	1,560	---	194	536	381	281	831	1,670	841	---
17	1,890	804	1,880	---	152	421	428	328	1,060	1,730	821	---
18	1,990	1,600	1,430	---	198	400	---	330	894	1,690	1,040	---
19	1,930	1,520	1,050	---	174	175	556	374	1,020	1,570	1,090	---
20	2,210	1,420	1,460	---	194	133	698	513	1,150	1,440	851	---
21	2,000	1,320	1,610	---	289	261	288	766	1,220	1,460	---	---
22	1,560	1,180	1,310	---	210	164	448	922	1,150	1,540	---	---
23	1,400	886	1,180	---	584	161	431	578	1,120	1,600	---	---
24	1,210	845	964	---	664	179	383	571	1,130	1,870	---	---
25	1,530	655	1,630	---	667	305	282	545	1,370	1,630	---	---
26	1,370	970	2,320	---	556	838	311	444	1,410	1,900	---	---
27	922	563	2,250	---	474	687	330	452	1,550	1,880	---	---
28	1,320	703	1,900	---	404	245	195	537	1,620	1,940	---	---
29	1,430	1,140	1,780	---	---	249	160	600	---	1,860	---	---
30	1,840	1,790	1,340	---	---	698	215	534	---	1,740	---	---
31	1,270	---	932	---	---	1,050	---	572	---	1,420	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

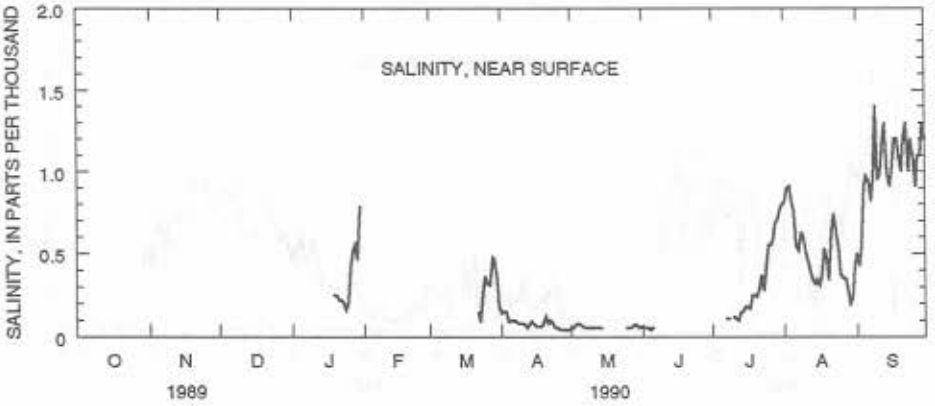
Salinity, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 1.7 ppt September 22, 1990; minimum value recorded, 0.04 ppt April 23-30, May 1, 2, 6, 8-14, June 1-5, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt)
OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	0.14	0.05	0.05	---	0.81	0.50
2	---	---	---	---	---	---	.15	.05	.05	---	.90	.43
3	---	---	---	---	---	---	.15	.07	.05	---	.91	.55
4	---	---	---	---	---	---	.09	.08	.04	---	.82	.92
5	---	---	---	---	---	---	.10	.07	.05	---	.75	.97
6	---	---	---	---	---	---	.10	.06	---	---	.55	.94
7	---	---	---	---	---	---	.09	.05	---	0.11	.52	.82
8	---	---	---	---	---	---	.08	.05	---	.11	.62	.95
9	---	---	---	---	---	---	.08	.05	---	---	.61	1.4
10	---	---	---	---	---	---	.08	.05	---	.12	.51	.95
11	---	---	---	---	---	---	.07	.05	---	.11	.45	.99
12	---	---	---	---	---	---	.05	.05	---	.10	.40	1.2
13	---	---	---	---	---	---	.08	.05	---	.14	.34	1.3
14	---	---	---	---	---	---	.09	.05	---	.15	.32	.98
15	---	---	---	---	---	---	.07	---	---	.18	.34	.91
16	---	---	---	---	---	---	.06	---	---	.18	.31	1.0
17	---	---	---	---	---	---	.06	---	---	.17	.36	1.2
18	---	---	---	---	---	---	.06	---	---	.25	.53	1.2
19	---	---	---	0.25	---	---	.08	---	---	.25	.46	1.1
20	---	---	---	.24	---	---	.12	---	---	.24	.34	1.0
21	---	---	---	.22	---	---	.08	---	---	.29	.63	1.2
22	---	---	---	.22	---	0.14	.10	---	---	.37	.74	1.3
23	---	---	---	.20	---	.09	.08	---	---	.28	.64	1.0
24	---	---	---	.16	---	.26	.05	---	---	.39	.54	1.2
25	---	---	---	.21	---	.36	.05	.05	---	.55	.38	1.1
26	---	---	---	.41	---	.32	.04	.05	---	.55	.35	.91
27	---	---	---	.52	---	.31	.04	.05	---	.58	.35	1.1
28	---	---	---	.55	---	.47	.04	.07	---	.69	.30	1.1
29	---	---	---	.46	---	.46	.04	.07	---	.70	.20	1.3
30	---	---	---	.78	---	.35	.04	.05	---	.77	.23	1.2
31	---	---	---	---	---	.18	---	.06	---	.80	.41	---



DAILY MEAN SALINITY, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--**Continued**

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

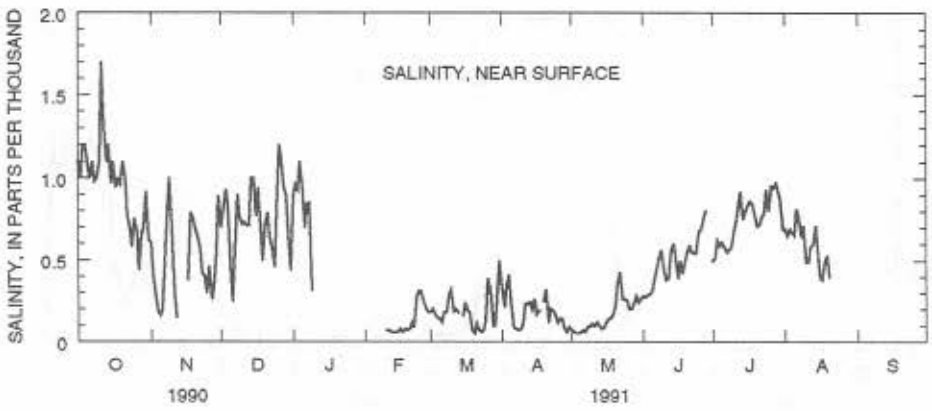
Salinity, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 1.8 ppt October 12, 1990; minimum value recorded, 0.04 ppt March 22, 23, May 2-5, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt)
OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	0.61	0.70	0.89	---	0.18	0.33	0.07	0.28	0.50	0.69	---
2	1.0	.41	.81	.96	---	.20	.21	.06	.27	.52	.65	---
3	1.2	.27	.93	.93	---	.17	.34	.05	.29	.62	.69	---
4	1.2	.19	.83	1.1	---	.14	.41	.05	.29	.59	.67	---
5	1.1	.16	.47	.96	---	.14	.23	.06	.32	.61	.65	---
6	1.0	.20	.25	.70	---	.12	.09	.07	.39	.58	.81	---
7	1.1	.49	.56	.84	---	.18	.08	.06	.46	.55	.75	---
8	.98	.80	.90	.85	---	.18	.07	.09	.53	.56	.64	---
9	1.0	1.0	.76	.32	---	.29	.08	.10	.56	.58	.71	---
10	1.1	.70	.72	---	0.07	.32	.11	.11	.44	.68	.49	---
11	1.7	.29	.73	---	.07	.19	.23	.10	.38	.73	.49	---
12	1.3	.15	.71	---	.06	.20	.23	.12	.39	.84	.58	---
13	1.1	---	.71	---	.06	.18	.24	.10	.56	.92	.60	---
14	1.2	---	1.0	---	.06	---	.20	.08	.60	.75	.71	---
15	.97	---	1.0	---	.06	.16	.26	.09	.52	.80	.57	---
16	1.1	---	.77	---	.08	.24	.17	.12	.39	.83	.39	---
17	.94	.38	.94	---	.06	.19	.19	.14	.50	.86	.38	---
18	.99	.79	.70	---	.08	.18	---	.14	.42	.84	.49	---
19	.96	.75	.50	---	.07	.07	.25	.17	.48	.78	.53	---
20	1.1	.69	.72	---	.08	.05	.32	.23	.55	.71	.40	---
21	1.0	.64	.79	---	.12	.11	.12	.36	.59	.72	---	---
22	.77	.57	.64	---	.09	.07	.20	.43	.55	.76	---	---
23	.69	.42	.57	---	.27	.06	.19	.26	.54	.79	---	---
24	.58	.40	.46	---	.31	.07	.17	.26	.54	.93	---	---
25	.75	.30	.81	---	.31	.13	.12	.25	.67	.80	---	---
26	.67	.46	1.2	---	.25	.39	.14	.20	.69	.95	---	---
27	.44	.26	1.1	---	.21	.32	.14	.20	.76	.94	---	---
28	.65	.33	.95	---	.18	.10	.08	.24	.80	.97	---	---
29	.70	.55	.89	---	---	.10	.06	.28	---	.93	---	---
30	.92	.89	.65	---	---	.32	.09	.24	---	.86	---	---
31	.62	---	.44	---	---	.50	---	.26	---	.69	---	---



DAILY MEAN SALINITY, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

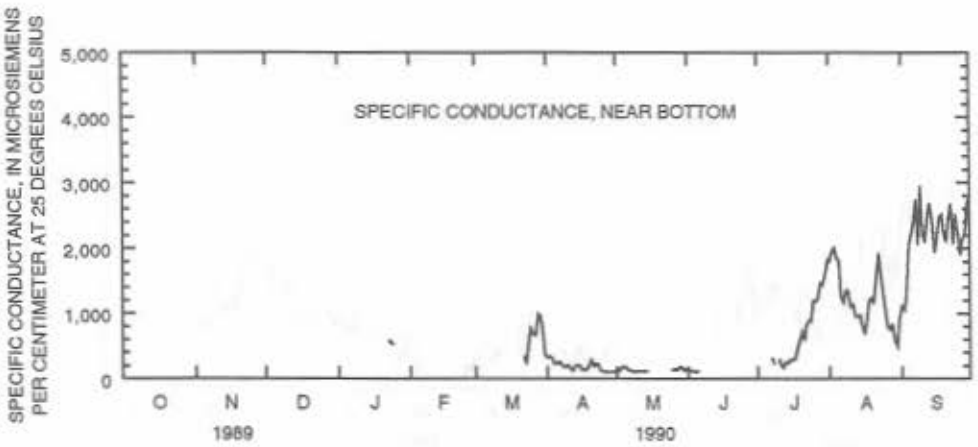
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 3,560 µS/cm September 7, 1990; minimum value recorded, 64 µS/cm July 13, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	326	117	142	---	1,810	1,110
2	---	---	---	---	---	---	346	117	133	---	1,960	1,060
3	---	---	---	---	---	---	329	176	117	---	2,000	1,280
4	---	---	---	---	---	---	224	192	105	---	1,850	2,060
5	---	---	---	---	---	---	238	174	115	---	1,810	2,190
6	---	---	---	---	---	---	256	135	---	---	1,260	2,370
7	---	---	---	---	---	---	222	133	---	307	1,170	2,740
8	---	---	---	---	---	---	191	117	---	240	1,360	2,060
9	---	---	---	---	---	---	184	111	---	---	1,360	2,940
10	---	---	---	---	---	---	202	118	---	282	1,110	2,240
11	---	---	---	---	---	---	164	114	---	214	1,140	2,100
12	---	---	---	---	---	---	127	118	---	178	976	2,510
13	---	---	---	---	---	---	197	121	---	248	949	2,680
14	---	---	---	---	---	---	208	119	---	235	967	2,440
15	---	---	---	---	---	---	200	---	---	300	816	1,940
16	---	---	---	---	---	---	137	---	---	288	687	2,110
17	---	---	---	---	---	---	149	---	---	304	853	2,470
18	---	---	---	---	---	---	138	---	---	459	1,210	2,510
19	---	---	---	---	---	---	193	---	---	568	1,240	2,230
20	---	---	---	---	---	---	289	---	---	709	1,150	2,100
21	---	---	---	---	---	---	199	---	---	594	1,550	2,440
22	---	---	---	---	---	336	229	---	---	829	1,920	2,670
23	---	---	---	569	---	225	220	---	---	895	1,650	2,070
24	---	---	---	531	---	557	138	---	---	883	1,310	2,520
25	---	---	---	---	---	762	119	142	---	1,200	1,070	2,240
26	---	---	---	---	---	685	110	145	---	1,190	774	1,900
27	---	---	---	---	---	665	109	140	---	1,240	759	2,140
28	---	---	---	---	---	989	110	183	---	1,460	837	2,250
29	---	---	---	---	---	976	109	188	---	1,440	567	2,660
30	---	---	---	---	---	760	110	132	---	1,580	494	2,810
31	---	---	---	---	---	394	---	152	---	1,830	915	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

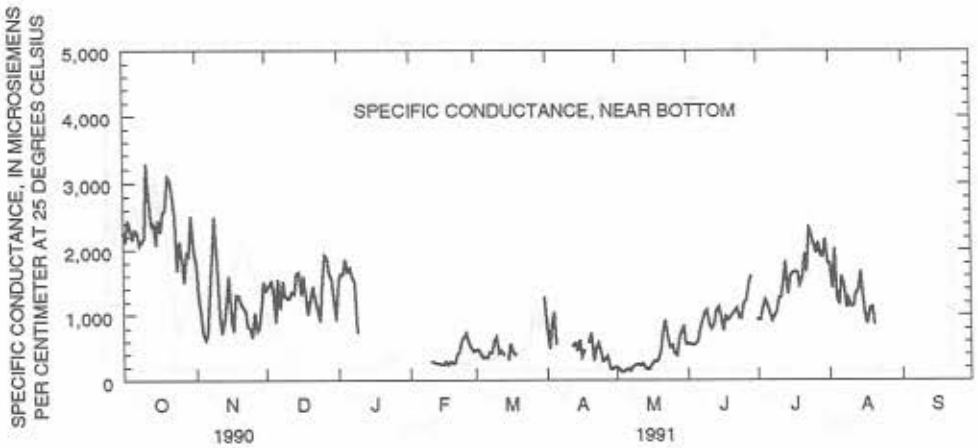
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 4,040 µS/cm November 15, 1990; minimum value recorded, 122 µS/cm May 3, 4, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2,250	1,770	1,380	1,510	---	466	814	197	571	939	1,800	---
2	2,130	1,310	1,450	1,630	---	474	494	168	551	934	1,420	---
3	2,450	993	1,510	1,620	---	415	836	130	554	1,090	2,020	---
4	2,320	721	1,380	1,860	---	348	1,040	138	555	1,240	1,270	---
5	2,160	626	906	1,670	---	353	568	159	611	1,190	1,170	---
6	2,300	725	1,540	1,720	---	341	---	180	780	1,040	1,590	---
7	2,260	1,380	1,100	1,570	---	430	---	148	910	927	1,470	---
8	2,070	2,020	1,510	1,500	---	425	---	204	1,040	974	1,120	---
9	2,130	2,500	1,300	745	---	616	---	232	1,080	1,050	1,250	---
10	2,200	1,780	1,250	---	283	668	---	244	864	1,270	1,140	---
11	3,280	998	1,260	---	277	426	---	230	801	1,270	1,150	---
12	2,790	730	1,360	---	252	452	543	253	853	1,540	1,320	---
13	2,360	891	1,330	---	257	402	571	209	1,070	1,820	1,380	---
14	2,420	1,250	1,640	---	242	---	453	169	1,130	1,320	1,680	---
15	2,080	1,590	1,660	---	240	327	621	182	970	1,600	1,330	---
16	2,450	952	1,310	---	281	559	363	242	764	1,650	958	---
17	2,280	756	1,590	---	241	432	457	292	968	1,670	875	---
18	2,550	1,310	1,260	---	282	401	---	287	936	1,660	1,110	---
19	2,610	1,290	1,010	---	257	---	590	329	959	1,460	1,130	---
20	3,080	1,200	1,250	---	271	---	729	470	1,010	1,550	870	---
21	3,030	1,120	1,440	---	416	---	307	733	1,070	1,940	---	---
22	2,820	1,060	1,250	---	429	---	474	926	1,110	1,670	---	---
23	2,490	822	1,090	---	622	---	571	655	951	2,320	---	---
24	1,690	798	917	---	673	---	462	514	954	2,270	---	---
25	2,130	672	1,410	---	729	---	291	540	1,190	2,100	---	---
26	1,860	1,030	1,910	---	573	---	320	408	1,240	1,950	---	---
27	1,500	765	1,870	---	499	772	377	387	1,490	2,120	---	---
28	1,940	813	1,640	---	438	---	201	662	1,590	1,910	---	---
29	1,910	1,160	1,540	---	---	---	168	749	---	1,900	---	---
30	2,510	1,500	1,270	---	---	---	197	844	---	2,170	---	---
31	1,970	---	931	---	---	1,260	---	555	---	1,790	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--**Continued**

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

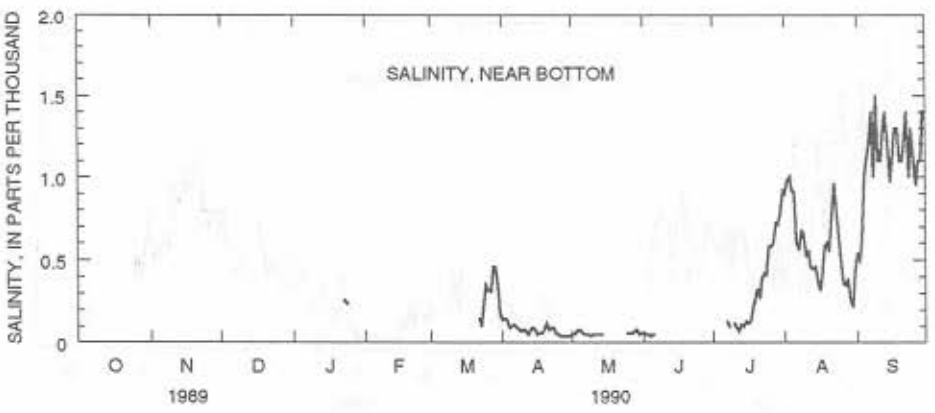
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 1.9 ppt September 7, 1990; minimum value recorded, 0.03 ppt July 12, 13, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt)
OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	0.14	0.05	0.06	---	0.90	0.53
2	---	---	---	---	---	---	.15	.05	.05	---	.98	.50
3	---	---	---	---	---	---	.14	.07	.05	---	1.0	.62
4	---	---	---	---	---	---	.09	.08	.04	---	.92	1.0
5	---	---	---	---	---	---	.10	.07	.05	---	.90	1.1
6	---	---	---	---	---	---	.11	.05	---	---	.61	1.2
7	---	---	---	---	---	---	.09	.05	---	0.13	.56	1.4
8	---	---	---	---	---	---	.08	.05	---	.10	.67	1.0
9	---	---	---	---	---	---	.07	.04	---	---	.66	1.5
10	---	---	---	---	---	---	.08	.05	---	.12	.53	1.1
11	---	---	---	---	---	---	.07	.05	---	.09	.55	1.1
12	---	---	---	---	---	---	.05	.05	---	.07	.46	1.3
13	---	---	---	---	---	---	.08	.05	---	.11	.45	1.4
14	---	---	---	---	---	---	.09	.05	---	.10	.46	1.2
15	---	---	---	---	---	---	.08	---	---	.13	.38	.97
16	---	---	---	---	---	---	.05	---	---	.12	.32	1.1
17	---	---	---	---	---	---	.06	---	---	.13	.40	1.3
18	---	---	---	---	---	---	.06	---	---	.21	.58	1.3
19	---	---	---	---	---	---	.08	---	---	.26	.60	1.1
20	---	---	---	---	---	---	.12	---	---	.33	.55	1.1
21	---	---	---	---	---	---	.08	---	---	.27	.76	1.2
22	---	---	---	---	---	0.15	.09	---	---	.39	.96	1.4
23	---	---	---	0.26	---	.10	.09	---	---	.42	.82	1.0
24	---	---	---	.24	---	.25	.06	---	---	.41	.64	1.3
25	---	---	---	---	---	.35	.05	.06	---	.58	.51	1.1
26	---	---	---	---	---	.32	.04	.06	---	.58	.36	.95
27	---	---	---	---	---	.31	.04	.06	---	.60	.35	1.1
28	---	---	---	---	---	.46	.04	.07	---	.72	.39	1.1
29	---	---	---	---	---	.46	.04	.08	---	.71	.26	1.4
30	---	---	---	---	---	.35	.04	.05	---	.78	.22	1.4
31	---	---	---	---	---	.18	---	.06	---	.91	.43	---



DAILY MEAN SALINITY, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

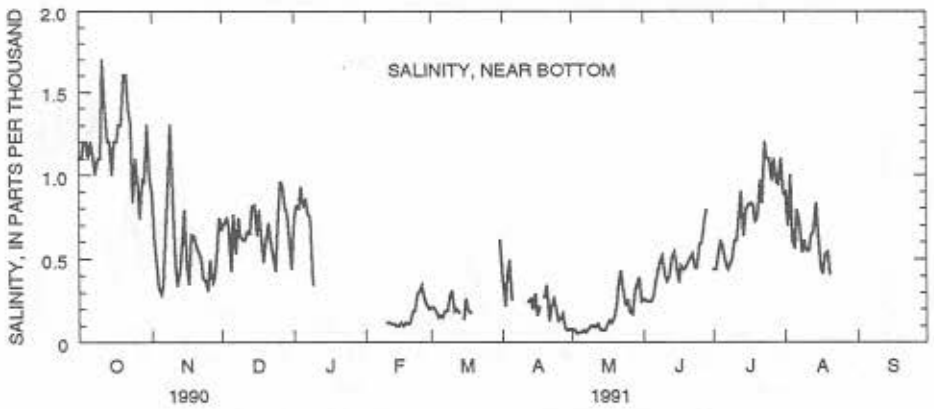
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 2.1 ppt November 15, 1990; minimum value recorded, 0.05 ppt April 30, May 2-6, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt)
OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	0.88	0.68	0.74	---	0.21	0.38	0.08	0.26	0.44	0.90	---
2	1.1	.64	.71	.81	---	.21	.22	.07	.25	.44	.70	---
3	1.2	.47	.74	.80	---	.19	.39	.05	.25	.52	1.0	---
4	1.2	.33	.68	.93	---	.15	.49	.06	.25	.60	.61	---
5	1.1	.29	.43	.82	---	.16	.26	.06	.28	.58	.56	---
6	1.2	.34	.76	.85	---	.15	---	.07	.36	.49	.79	---
7	1.1	.67	.53	.77	---	.19	---	.06	.43	.44	.72	---
8	1.0	1.0	.74	.74	---	.19	---	.08	.49	.46	.54	---
9	1.1	1.3	.63	.35	---	.28	---	.10	.52	.50	.61	---
10	1.1	.88	.61	---	0.12	.31	---	.10	.40	.61	.55	---
11	1.7	.47	.61	---	.12	.19	---	.09	.37	.61	.55	---
12	1.4	.34	.66	---	.11	.20	.25	.11	.40	.76	.64	---
13	1.2	.42	.65	---	.11	.18	.26	.08	.51	.90	.67	---
14	1.2	.60	.81	---	.10	---	.20	.07	.54	.64	.83	---
15	1.0	.79	.82	---	.10	.14	.29	.07	.46	.79	.65	---
16	1.2	.45	.64	---	.12	.26	.16	.10	.36	.82	.45	---
17	1.2	.35	.79	---	.10	.19	.21	.13	.46	.83	.41	---
18	1.3	.64	.61	---	.12	.18	---	.12	.44	.82	.53	---
19	1.3	.63	.48	---	.11	---	.27	.14	.45	.72	.54	---
20	1.6	.58	.61	---	.12	---	.34	.21	.48	.76	.41	---
21	1.6	.54	.71	---	.19	---	.13	.34	.51	.97	---	---
22	1.4	.50	.61	---	.19	---	.21	.43	.53	.83	---	---
23	1.3	.38	.52	---	.29	---	.26	.30	.45	1.2	---	---
24	.84	.37	.43	---	.31	---	.21	.23	.45	1.1	---	---
25	1.1	.31	.69	---	.34	---	.13	.25	.58	1.1	---	---
26	.93	.49	.96	---	.26	---	.14	.18	.60	.97	---	---
27	.74	.36	.93	---	.23	.36	.17	.17	.73	1.1	---	---
28	.97	.39	.81	---	.20	---	.08	.31	.79	.96	---	---
29	.96	.56	.76	---	---	---	.07	.35	---	.95	---	---
30	1.3	.74	.62	---	---	---	.08	.39	---	1.1	---	---
31	.99	---	.44	---	---	.61	---	.25	---	.89	---	---



DAILY MEAN SALINITY, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

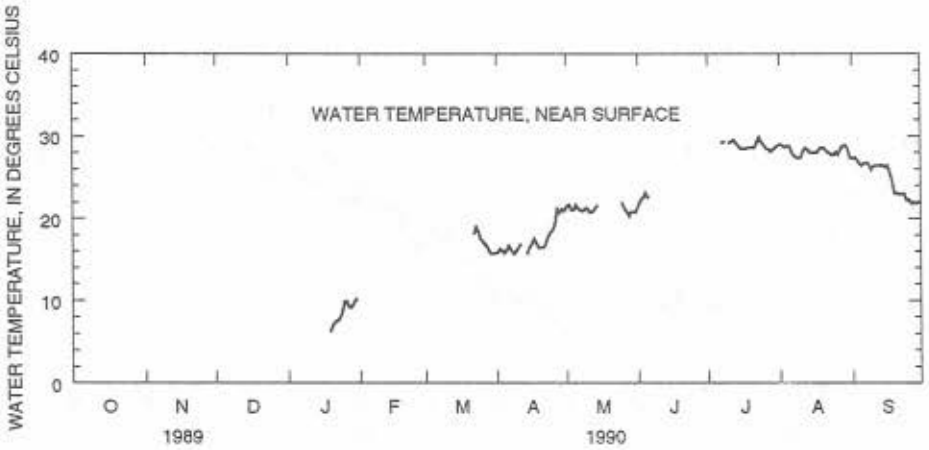
Water Temperature, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 32.2 °C July 23, 1990; minimum value recorded, 6.0 °C January 19, 1990.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	15.8	21.5	21.6	---	29.0	27.2
2	---	---	---	---	---	---	16.2	21.7	22.2	---	28.8	27.4
3	---	---	---	---	---	---	16.1	21.0	22.5	---	28.6	27.1
4	---	---	---	---	---	---	15.8	21.0	23.1	---	28.7	26.5
5	---	---	---	---	---	---	16.0	21.7	22.5	---	28.7	26.4
6	---	---	---	---	---	---	16.6	21.2	---	---	28.1	26.6
7	---	---	---	---	---	---	16.1	21.0	---	29.2	27.6	26.7
8	---	---	---	---	---	---	15.7	20.9	---	29.3	27.4	26.5
9	---	---	---	---	---	---	15.9	21.2	---	---	27.3	25.9
10	---	---	---	---	---	---	16.4	21.3	---	29.2	27.4	26.3
11	---	---	---	---	---	---	16.8	20.7	---	29.3	28.2	26.4
12	---	---	---	---	---	---	---	20.8	---	29.5	28.5	26.4
13	---	---	---	---	---	---	---	21.0	---	29.2	28.2	26.4
14	---	---	---	---	---	---	15.8	21.5	---	28.8	27.9	26.4
15	---	---	---	---	---	---	16.5	---	---	28.4	27.9	26.2
16	---	---	---	---	---	---	16.9	---	---	28.4	28.0	26.4
17	---	---	---	---	---	---	17.5	---	---	28.4	27.9	25.5
18	---	---	---	---	---	---	16.9	---	---	28.5	28.4	24.2
19	---	---	---	6.3	---	---	16.4	---	---	28.6	28.6	23.0
20	---	---	---	7.1	---	---	16.5	---	---	28.6	28.5	23.1
21	---	---	---	7.4	---	---	16.5	---	---	28.6	28.1	22.9
22	---	---	---	7.5	---	18.2	17.0	---	---	29.2	27.9	22.9
23	---	---	---	7.8	---	18.9	17.8	---	---	29.8	27.7	23.0
24	---	---	---	8.5	---	18.3	18.2	---	---	29.3	27.7	22.2
25	---	---	---	9.8	---	17.5	18.6	21.9	---	28.9	28.0	22.3
26	---	---	---	9.9	---	17.1	19.4	21.3	---	28.4	27.7	21.8
27	---	---	---	9.2	---	16.8	21.1	20.8	---	28.3	28.5	22.0
28	---	---	---	9.1	---	16.2	20.7	20.2	---	28.1	28.7	21.8
29	---	---	---	9.6	---	15.8	21.1	20.8	---	28.3	28.9	22.0
30	---	---	---	10.1	---	15.7	20.9	20.8	---	28.5	28.3	22.0
31	---	---	---	---	---	15.8	---	20.7	---	28.9	27.4	---



DAILY MEAN WATER TEMPERATURE, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

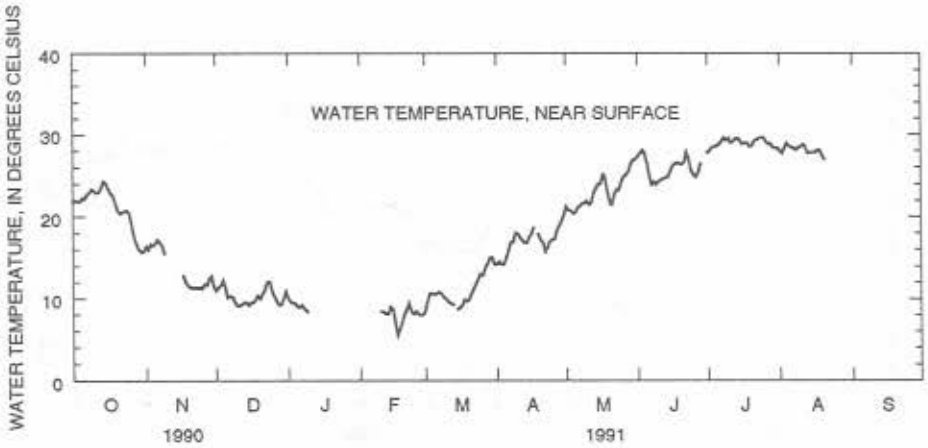
Water Temperature, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 30.9 °C July 8, 1991; minimum value recorded, 3.7 °C February 17, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21.9	16.3	11.0	10.0	---	8.6	14.2	21.3	27.3	27.8	28.0	---
2	22.0	16.0	11.4	9.6	---	9.6	14.5	20.8	27.7	28.0	27.7	---
3	21.9	16.6	11.6	9.4	---	10.7	14.2	20.8	28.0	28.4	28.3	---
4	21.9	16.5	12.2	9.4	---	10.6	14.2	20.4	27.7	28.5	28.9	---
5	22.3	16.7	11.2	9.0	---	10.5	14.8	20.4	26.4	28.5	28.5	---
6	22.2	17.2	10.1	9.0	---	10.7	15.8	21.1	25.3	28.8	28.4	---
7	22.8	16.9	10.3	9.2	---	10.8	16.9	21.3	23.9	29.1	28.2	---
8	22.9	16.3	10.2	8.7	---	10.6	16.9	21.7	24.2	29.6	28.1	---
9	23.4	15.5	9.6	8.4	---	10.1	18.0	21.7	23.9	29.3	28.3	---
10	23.2	---	9.1	---	8.4	10.0	17.9	21.9	24.3	29.5	28.5	---
11	22.9	---	9.1	---	8.4	9.6	17.5	21.5	24.5	29.0	28.7	---
12	23.1	---	9.3	---	8.1	9.4	17.1	21.8	24.6	29.1	28.4	---
13	23.6	---	9.5	---	8.1	9.3	16.8	22.9	24.8	29.4	27.7	---
14	24.3	---	9.5	---	9.0	---	16.8	23.5	24.9	29.5	27.8	---
15	24.1	---	9.2	---	8.7	8.7	17.5	24.0	25.5	29.2	27.8	---
16	23.5	---	9.5	---	7.3	8.9	17.8	24.0	26.1	28.8	27.8	---
17	22.9	12.8	9.5	---	5.5	9.2	18.6	25.1	26.4	29.0	28.0	---
18	22.7	12.0	9.9	---	6.3	9.8	---	24.9	26.5	29.0	28.1	---
19	21.8	11.5	10.4	---	7.0	9.7	17.8	23.1	26.4	28.5	27.4	---
20	20.8	11.4	10.0	---	8.1	10.0	17.2	21.6	26.3	28.6	27.0	---
21	20.4	11.3	10.7	---	8.7	10.6	16.7	21.5	26.7	29.2	---	---
22	20.6	11.4	11.1	---	9.4	11.3	15.8	22.8	27.8	29.3	---	---
23	20.7	11.3	12.1	---	8.4	11.8	16.3	23.4	27.0	29.5	---	---
24	20.8	11.4	12.0	---	8.1	12.5	17.0	23.3	25.7	29.6	---	---
25	20.4	11.2	11.1	---	8.4	13.0	17.2	24.3	25.2	29.6	---	---
26	18.8	11.8	10.2	---	8.1	12.9	17.3	24.9	24.9	29.1	---	---
27	17.6	11.6	9.6	---	7.9	13.8	18.2	25.1	25.4	28.8	---	---
28	16.6	12.4	9.2	---	7.9	14.4	18.8	25.5	26.4	28.9	---	---
29	16.1	12.7	9.3	---	---	15.0	19.3	26.3	---	28.4	---	---
30	15.7	11.6	9.9	---	---	15.1	20.1	26.9	---	28.3	---	---
31	15.8	---	10.9	---	---	14.2	---	26.9	---	28.2	---	---



DAILY MEAN WATER TEMPERATURE, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

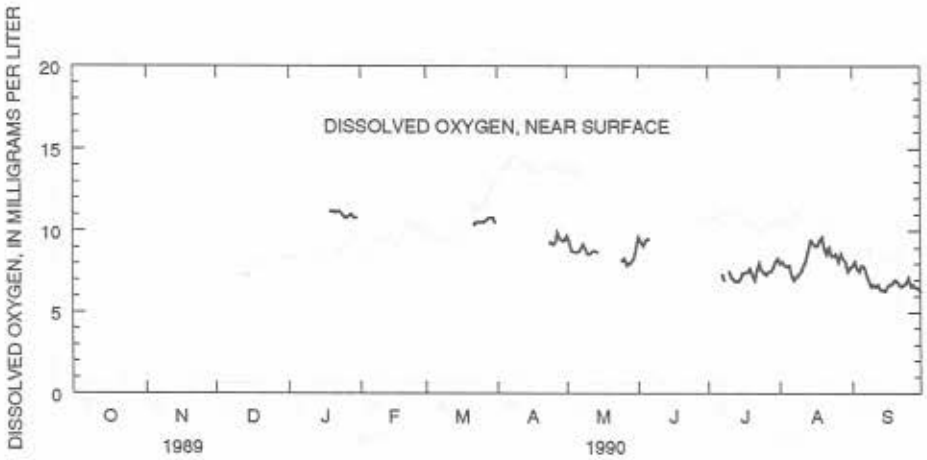
Dissolved Oxygen, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 11.3 mg/L January 19-22, 1990; minimum value recorded, 5.6 mg/L July 21, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	9.7	9.6	---	8.0	7.9
2	---	---	---	---	---	---	---	9.3	9.3	---	8.1	8.1
3	---	---	---	---	---	---	---	8.8	9.1	---	7.9	7.7
4	---	---	---	---	---	---	---	8.7	9.4	---	7.8	7.5
5	---	---	---	---	---	---	---	8.7	9.5	---	7.9	7.9
6	---	---	---	---	---	---	---	8.7	---	---	7.3	7.8
7	---	---	---	---	---	---	---	8.9	---	7.3	7.0	7.3
8	---	---	---	---	---	---	---	9.2	---	7.0	7.2	7.0
9	---	---	---	---	---	---	---	8.9	---	---	7.3	6.6
10	---	---	---	---	---	---	---	8.6	---	7.5	7.5	6.7
11	---	---	---	---	---	---	---	8.6	---	7.2	7.9	6.6
12	---	---	---	---	---	---	---	8.8	---	7.0	8.1	6.7
13	---	---	---	---	---	---	---	8.8	---	6.9	8.8	6.4
14	---	---	---	---	---	---	---	8.7	---	6.9	9.4	6.4
15	---	---	---	---	---	---	---	---	---	7.1	9.3	6.3
16	---	---	---	---	---	---	---	---	---	7.4	9.1	6.6
17	---	---	---	---	---	---	---	---	---	7.4	9.1	6.7
18	---	---	---	---	---	---	---	---	---	7.5	9.4	6.8
19	---	---	---	11.2	---	---	---	---	---	7.7	9.6	7.0
20	---	---	---	11.2	---	---	---	---	---	7.3	9.0	6.9
21	---	---	---	11.1	---	---	---	---	---	7.0	8.6	6.7
22	---	---	---	11.2	---	10.4	---	---	---	7.5	9.1	6.6
23	---	---	---	11.2	---	10.5	---	---	---	8.0	8.5	6.7
24	---	---	---	11.0	---	10.5	9.3	---	---	7.6	8.5	6.8
25	---	---	---	10.8	---	10.5	9.2	8.2	---	7.4	8.6	7.1
26	---	---	---	10.8	---	10.5	9.3	8.3	---	7.3	8.1	6.6
27	---	---	---	10.9	---	10.6	9.9	7.9	---	7.5	8.6	6.7
28	---	---	---	11.0	---	10.8	9.5	8.0	---	7.5	8.3	6.5
29	---	---	---	10.8	---	10.8	9.4	8.1	---	7.7	8.1	6.5
30	---	---	---	10.8	---	10.8	9.4	8.3	---	8.1	7.5	6.3
31	---	---	---	---	---	10.5	---	8.9	---	8.3	7.7	---



DAILY MEAN DISSOLVED OXYGEN, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

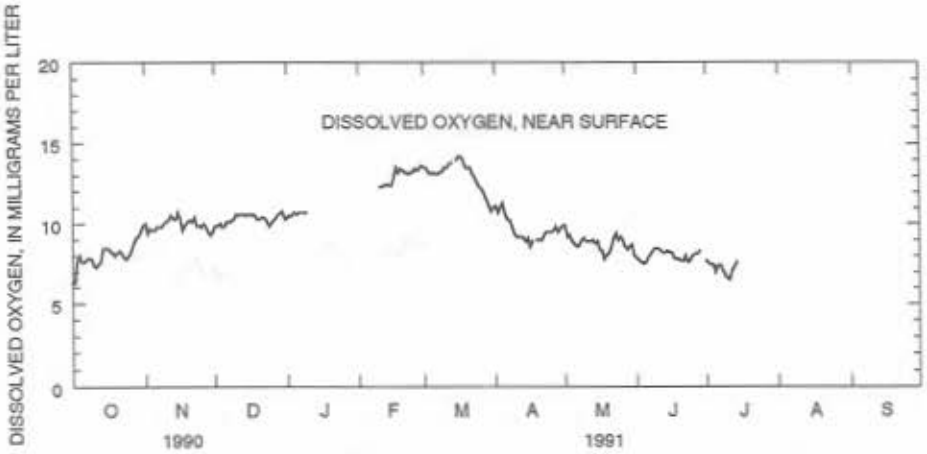
Dissolved Oxygen, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 14.8 mg/L March 21, 1991; minimum value recorded, 5.5 mg/L July 10, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.3	10.0	9.9	10.4	---	13.5	11.1	9.9	7.9	7.7	---	---
2	6.3	9.4	9.9	10.5	---	13.5	10.7	9.2	7.7	7.5	---	---
3	7.7	9.7	10.0	10.5	---	13.2	11.0	9.3	7.6	7.5	---	---
4	8.0	9.6	9.8	10.7	---	13.1	11.3	8.9	7.5	7.4	---	---
5	7.6	9.6	9.9	10.6	---	13.2	10.7	8.8	7.6	7.0	---	---
6	7.6	9.8	10.1	10.7	---	13.1	10.3	8.6	7.9	7.4	---	---
7	7.8	9.8	10.1	10.7	---	13.1	10.2	8.6	8.1	7.4	---	---
8	7.9	9.8	10.2	10.7	---	13.2	9.8	8.9	8.4	7.1	---	---
9	7.8	10.0	10.3	10.7	---	13.3	9.4	9.1	8.5	6.8	---	---
10	7.4	10.1	10.6	---	12.3	13.5	9.2	8.9	8.5	6.6	---	---
11	7.3	10.3	10.5	---	12.3	13.5	9.2	8.9	8.4	6.5	---	---
12	7.5	10.5	10.6	---	12.4	13.7	9.2	8.9	8.2	7.1	---	---
13	7.7	10.3	10.6	---	12.5	13.8	9.1	9.0	8.2	7.3	---	---
14	8.5	10.3	10.5	---	12.4	---	8.9	8.8	8.3	7.6	---	---
15	8.5	10.7	10.6	---	12.4	14.0	9.1	8.9	8.2	---	---	---
16	8.5	10.3	10.5	---	12.8	14.2	8.6	8.4	8.2	---	---	---
17	8.3	9.6	10.6	---	13.5	14.1	8.9	8.3	7.9	---	---	---
18	8.2	9.9	10.5	---	13.2	14.0	---	7.8	7.8	---	---	---
19	8.0	10.1	10.3	---	13.4	13.5	9.0	8.0	7.8	---	---	---
20	8.2	10.2	10.3	---	13.3	13.5	9.0	8.2	7.7	---	---	---
21	8.3	10.1	10.4	---	13.2	13.5	9.0	8.5	7.7	---	---	---
22	8.1	10.4	10.4	---	13.1	13.1	9.3	9.1	8.0	---	---	---
23	7.9	9.9	10.2	---	13.2	12.9	9.5	9.4	7.6	---	---	---
24	7.8	9.9	9.9	---	13.2	12.6	9.5	9.0	7.7	---	---	---
25	8.0	9.8	10.0	---	13.4	12.3	9.5	9.2	8.0	---	---	---
26	8.3	10.0	10.2	---	13.3	12.2	9.6	9.0	8.1	---	---	---
27	8.7	9.8	10.4	---	13.4	11.9	9.8	8.6	8.1	---	---	---
28	9.1	9.5	10.6	---	13.6	11.5	9.5	8.4	8.3	---	---	---
29	9.2	9.3	10.7	---	---	11.2	9.7	8.6	---	---	---	---
30	9.5	9.5	10.8	---	---	10.8	9.9	8.7	---	---	---	---
31	9.9	---	10.3	---	---	11.0	---	8.0	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

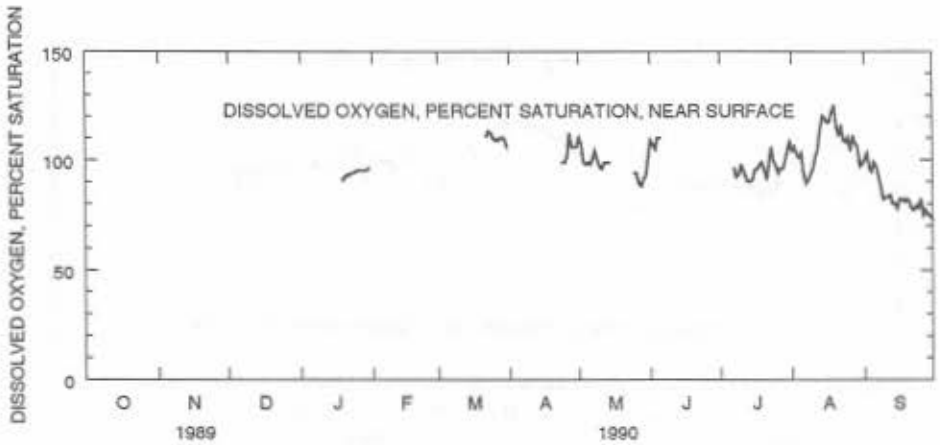
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 144 percent August 18, 1990; minimum value recorded, 69 percent September 29, 30, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	110	109	---	104	100
2	---	---	---	---	---	---	---	107	107	---	106	103
3	---	---	---	---	---	---	---	99	105	---	102	97
4	---	---	---	---	---	---	---	98	110	---	101	94
5	---	---	---	---	---	---	---	99	110	---	103	99
6	---	---	---	---	---	---	---	98	---	---	94	97
7	---	---	---	---	---	---	---	100	---	96	89	92
8	---	---	---	---	---	---	---	104	---	92	91	88
9	---	---	---	---	---	---	---	100	---	---	93	82
10	---	---	---	---	---	---	---	97	---	98	96	83
11	---	---	---	---	---	---	---	96	---	95	102	83
12	---	---	---	---	---	---	---	99	---	92	104	84
13	---	---	---	---	---	---	---	99	---	90	114	80
14	---	---	---	---	---	---	---	99	---	90	120	80
15	---	---	---	---	---	---	---	---	---	91	119	78
16	---	---	---	---	---	---	---	---	---	95	117	82
17	---	---	---	---	---	---	---	---	---	96	117	82
18	---	---	---	---	---	---	---	---	---	98	122	81
19	---	---	---	91	---	---	---	---	---	99	125	82
20	---	---	---	92	---	---	---	---	---	95	116	81
21	---	---	---	93	---	---	---	---	---	91	111	78
22	---	---	---	93	---	111	---	---	---	98	116	77
23	---	---	---	94	---	113	---	---	---	106	109	79
24	---	---	---	94	---	112	99	---	---	100	108	78
25	---	---	---	95	---	110	99	94	---	97	110	82
26	---	---	---	95	---	109	102	94	---	94	104	75
27	---	---	---	95	---	109	112	89	---	96	111	77
28	---	---	---	95	---	110	106	88	---	96	108	75
29	---	---	---	95	---	110	106	91	---	99	106	75
30	---	---	---	96	---	109	106	93	---	104	97	73
31	---	---	---	---	---	106	---	100	---	109	98	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

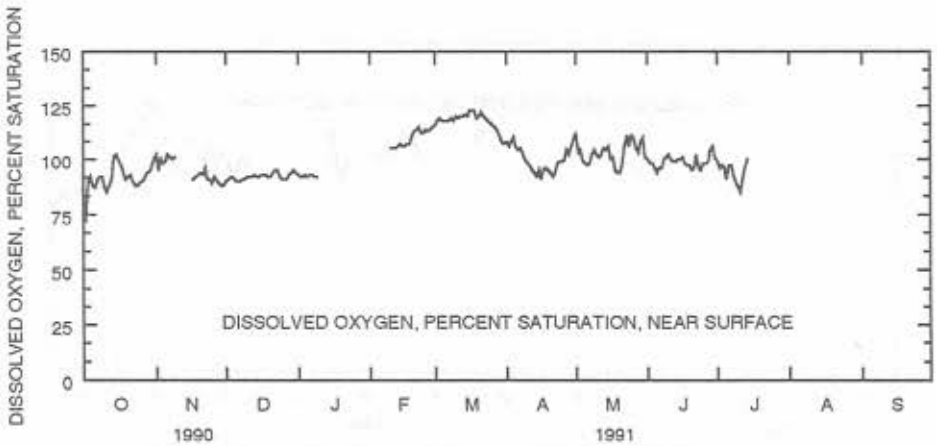
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 137 percent March 21, 1991; minimum value recorded, 68 percent October 3, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	72	102	90	93	---	116	108	112	100	99	---	---
2	72	95	91	92	---	118	106	103	98	96	---	---
3	89	100	92	92	---	119	108	104	98	97	---	---
4	92	98	92	93	---	118	110	99	96	96	---	---
5	88	99	90	92	---	118	106	98	94	91	---	---
6	87	102	90	93	---	118	104	97	96	97	---	---
7	91	101	90	93	---	118	105	98	96	97	---	---
8	92	100	91	92	---	119	102	102	100	93	---	---
9	92	101	91	92	---	118	100	104	101	89	---	---
10	87	---	92	---	105	120	98	102	102	87	---	---
11	85	---	92	---	105	119	97	101	100	85	---	---
12	88	---	92	---	105	120	95	102	99	92	---	---
13	91	---	93	---	106	120	94	105	99	96	---	---
14	101	---	92	---	107	---	92	104	100	100	---	---
15	102	---	92	---	106	120	95	106	100	---	---	---
16	100	---	93	---	106	123	91	100	101	---	---	---
17	97	91	93	---	107	123	95	101	98	---	---	---
18	95	92	93	---	107	123	---	95	97	---	---	---
19	91	93	92	---	110	119	95	94	97	---	---	---
20	92	94	92	---	113	120	94	94	95	---	---	---
21	93	93	94	---	114	122	92	97	96	---	---	---
22	90	96	95	---	115	120	94	106	102	---	---	---
23	88	91	95	---	112	119	98	111	96	---	---	---
24	88	91	92	---	112	118	99	106	95	---	---	---
25	89	89	91	---	114	117	99	111	98	---	---	---
26	90	92	91	---	113	116	100	110	98	---	---	---
27	91	90	91	---	114	115	104	105	99	---	---	---
28	94	89	93	---	115	113	102	103	104	---	---	---
29	94	88	94	---	---	111	105	108	106	---	---	---
30	96	88	95	---	---	108	109	110	101	---	---	---
31	100	---	94	---	---	107	---	101	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

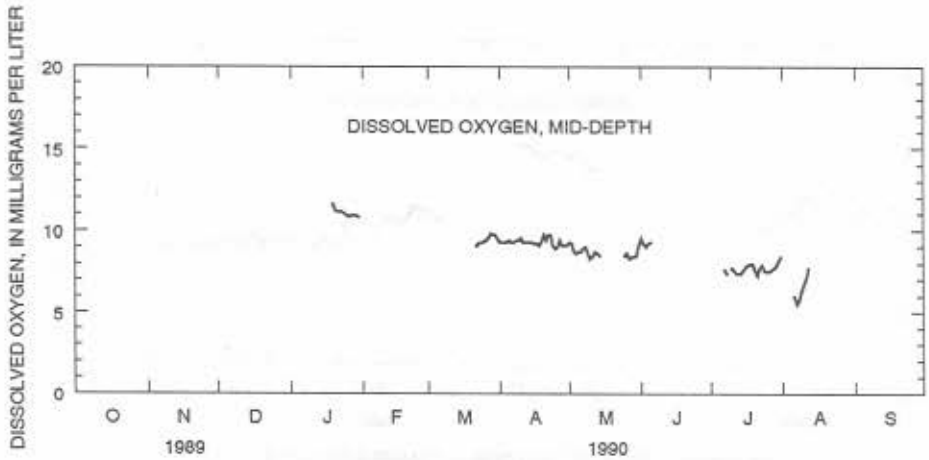
Dissolved Oxygen, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 11.8 mg/L January 19, 1990; minimum value recorded, 4.7 mg/L August 7, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	9.3	9.3	9.5	---	---	---
2	---	---	---	---	---	---	9.3	9.2	9.2	---	---	---
3	---	---	---	---	---	---	9.3	8.7	9.0	---	---	---
4	---	---	---	---	---	---	9.3	8.6	9.2	---	---	---
5	---	---	---	---	---	---	9.4	8.7	9.3	---	---	---
6	---	---	---	---	---	---	9.3	8.7	---	---	6.0	---
7	---	---	---	---	---	---	9.3	8.9	---	7.6	5.5b	---
8	---	---	---	---	---	---	9.4	9.0	---	7.4	5.8b	---
9	---	---	---	---	---	---	9.4	8.6	---	---	6.3	---
10	---	---	---	---	---	---	9.5	8.3	---	7.7	6.7	---
11	---	---	---	---	---	---	9.3	8.4	---	7.6	7.1	---
12	---	---	---	---	---	---	9.3	8.7	---	7.4	7.7	---
13	---	---	---	---	---	---	9.3	8.6	---	7.4	---	---
14	---	---	---	---	---	---	9.3	8.5	---	7.4	---	---
15	---	---	---	---	---	---	9.3	---	---	7.6	---	---
16	---	---	---	---	---	---	9.2	---	---	7.8	---	---
17	---	---	---	---	---	---	9.2	---	---	7.9	---	---
18	---	---	---	---	---	---	9.1	---	---	8.0	---	---
19	---	---	---	11.6	---	---	9.3	---	---	8.0	---	---
20	---	---	---	11.2	---	---	9.7	---	---	7.6	---	---
21	---	---	---	11.1	---	---	9.4	---	---	7.3	---	---
22	---	---	---	11.1	---	9.1	9.7	---	---	7.7	---	---
23	---	---	---	11.1	---	9.2	9.7	---	---	7.9	---	---
24	---	---	---	11.0	---	9.3	9.1	---	---	7.6	---	---
25	---	---	---	10.9	---	9.3	8.9	8.5	---	7.5	---	---
26	---	---	---	10.8	---	9.4	9.0	8.6	---	7.5	---	---
27	---	---	---	10.9	---	9.5	9.4	8.3	---	7.6	---	---
28	---	---	---	10.9	---	9.8	9.1	8.4	---	7.7	---	---
29	---	---	---	10.9	---	9.7	9.1	8.4	---	7.8	---	---
30	---	---	---	10.8	---	9.7	9.1	8.5	---	8.1	---	---
31	---	---	---	---	---	9.5	---	9.0	---	8.4	---	---



DAILY MEAN DISSOLVED OXYGEN, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

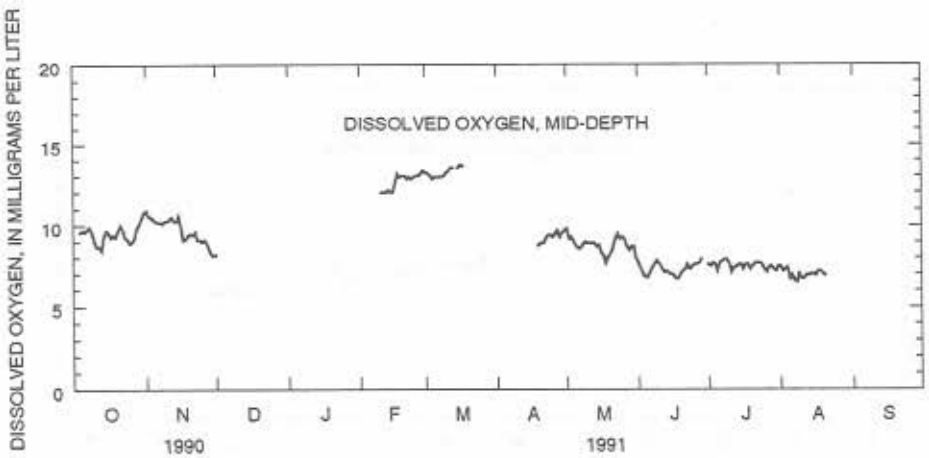
Dissolved Oxygen, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 14.1 mg/L February 17, March 17, 1991; minimum value recorded, 6.0 mg/L June 17, 19, August 8, 11, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.9	8.2	---	---	13.2	---	9.8	7.7	7.6	7.5	---
2	---	10.6	---	---	---	13.2	---	9.2	7.3	7.5	7.2	---
3	---	10.5	---	---	---	13.0	---	9.3	6.9	7.7	7.3	---
4	9.6	10.4	---	---	---	12.8	---	9.0	6.8	7.6	7.4	---
5	9.7	10.3	---	---	---	12.9	---	8.8	6.8	7.2	6.7	---
6	9.6	10.2	---	---	---	12.9	---	8.6	7.1	7.7	6.9	---
7	9.8	10.2	---	---	---	12.9	---	8.6	7.4	7.8	6.6	---
8	9.9	10.1	---	---	---	12.9	---	8.8	7.7	7.9	6.5	---
9	9.6	10.3	---	---	---	13.0	---	9.0	7.8	7.9	7.0	---
10	9.0	10.3	---	---	12.0	13.2	---	8.9	7.6	7.6	6.7	---
11	8.7	10.4	---	---	12.0	13.3	---	8.9	7.4	7.1	6.7	---
12	8.7	10.5	---	---	12.0	13.5	---	8.9	7.1	7.4	6.9	---
13	8.5	10.3	---	---	12.1	13.5	---	8.9	7.2	7.4	6.9	---
14	9.3	10.3	---	---	12.0	---	---	8.7	7.0	7.6	7.0	---
15	9.7	10.6	---	---	12.0	13.5	---	8.8	7.0	7.6	7.0	---
16	9.6	9.9	---	---	12.4	13.7	---	8.3	6.9	7.3	6.9	---
17	9.3	9.1	---	---	13.1	13.6	---	8.1	6.7	7.6	7.2	---
18	9.4	9.2	---	---	12.9	---	---	7.7	6.7	7.6	7.2	---
19	9.3	9.4	---	---	13.0	---	8.8	8.0	6.9	7.3	7.0	---
20	9.7	9.5	---	---	13.0	---	8.9	8.3	7.2	7.5	6.9	---
21	10.0	9.4	---	---	12.8	---	8.9	8.6	7.3	7.7	---	---
22	9.8	9.6	---	---	12.9	---	9.2	9.2	7.6	7.7	---	---
23	9.3	9.1	---	---	12.8	---	9.4	9.5	7.3	7.7	---	---
24	9.2	9.1	---	---	12.9	---	9.4	9.2	7.4	7.6	---	---
25	8.9	9.0	---	---	13.0	---	9.3	9.3	7.6	7.3	---	---
26	9.0	9.1	---	---	13.0	---	9.5	9.2	7.6	7.1	---	---
27	9.2	8.9	---	---	13.1	---	9.7	8.7	7.7	7.4	---	---
28	9.8	8.6	---	---	13.3	---	9.3	8.5	7.9	7.5	---	---
29	10.0	8.2	---	---	---	---	9.5	8.7	---	7.3	---	---
30	10.4	8.1	---	---	---	---	9.7	8.7	---	7.2	---	---
31	10.8	---	---	---	---	---	---	8.0	---	7.5	---	---



DAILY MEAN DISSOLVED OXYGEN, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

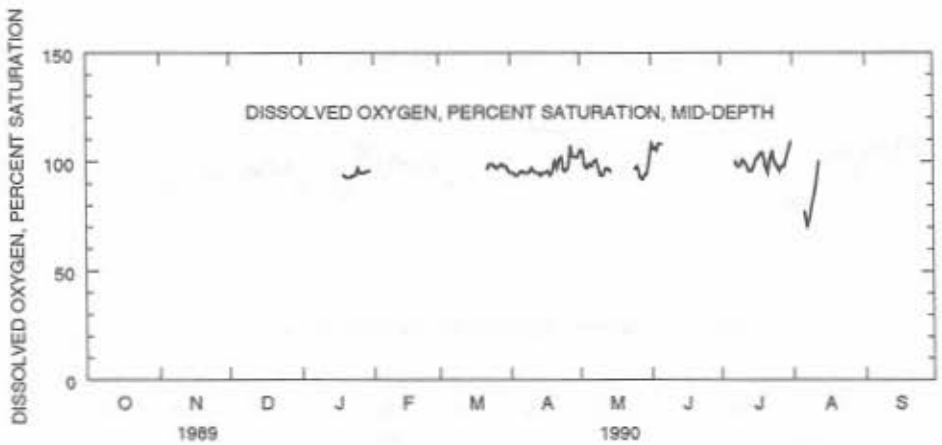
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 126 percent July 31, 1990; minimum value recorded, 59 percent August 7, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	95	105	108	---	---	---
2	---	---	---	---	---	---	95	105	106	---	---	---
3	---	---	---	---	---	---	94	98	105	---	---	---
4	---	---	---	---	---	---	94	97	108	---	---	---
5	---	---	---	---	---	---	95	99	108	---	---	---
6	---	---	---	---	---	---	96	98	---	---	77	---
7	---	---	---	---	---	---	95	100	---	100	70	---
8	---	---	---	---	---	---	95	101	---	98	74	---
9	---	---	---	---	---	---	95	97	---	98	80	---
10	---	---	---	---	---	---	97	94	---	101	85	---
11	---	---	---	---	---	---	96	94	---	100	92	---
12	---	---	---	---	---	---	95	97	---	98	100	---
13	---	---	---	---	---	---	95	97	---	96	---	---
14	---	---	---	---	---	---	94	96	---	96	---	---
15	---	---	---	---	---	---	95	---	---	98	---	---
16	---	---	---	---	---	---	95	---	---	101	---	---
17	---	---	---	---	---	---	96	---	---	102	---	---
18	---	---	---	---	---	---	94	---	---	104	---	---
19	---	---	---	94	---	---	95	---	---	104	---	---
20	---	---	---	93	---	---	100	---	---	98	---	---
21	---	---	---	93	---	---	97	---	---	95	---	---
22	---	---	---	93	---	97	101	---	---	101	---	---
23	---	---	---	94	---	99	102	---	---	105	---	---
24	---	---	---	94	---	99	96	---	---	100	---	---
25	---	---	---	97	---	98	96	97	---	98	---	---
26	---	---	---	95	---	97	98	98	---	96	---	---
27	---	---	---	95	---	98	107	93	---	98	---	---
28	---	---	---	95	---	99	102	92	---	98	---	---
29	---	---	---	96	---	98	102	94	---	101	---	---
30	---	---	---	96	---	98	102	95	---	105	---	---
31	---	---	---	---	---	96	---	100	---	109	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

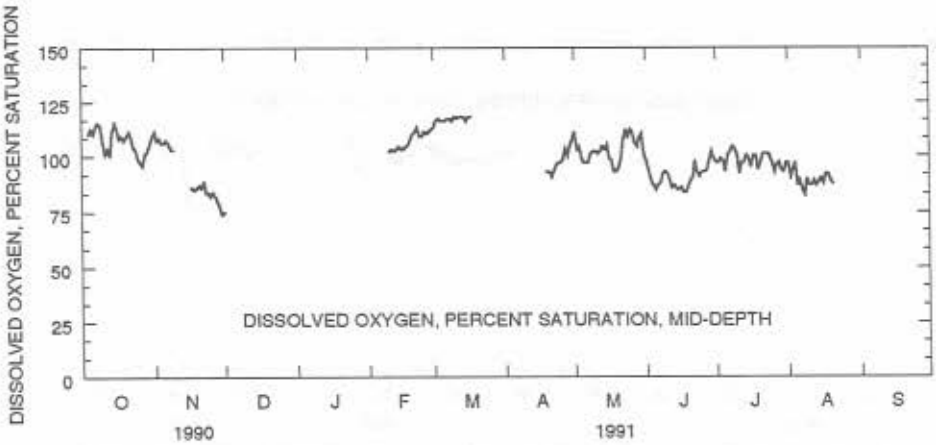
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 134 percent October 14, 1990; minimum value recorded, 73 percent November 30, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	111	75	---	---	113	---	111	98	97	97	---
2	---	107	---	---	---	116	---	103	93	97	91	---
3	---	108	---	---	---	117	---	104	89	99	94	---
4	110	106	---	---	---	116	---	99	87	98	97	---
5	112	106	---	---	---	116	---	97	85	93	87	---
6	110	107	---	---	---	116	---	97	87	100	89	---
7	114	106	---	---	---	117	---	97	88	102	85	---
8	115	103	---	---	---	117	---	101	92	104	83	---
9	114	103	---	---	---	116	---	102	93	103	90	---
10	106	---	---	---	102	118	---	102	92	100	87	---
11	101	---	---	---	103	117	---	101	90	92	87	---
12	103	---	---	---	102	118	---	102	86	97	89	---
13	100	---	---	---	103	118	---	104	87	97	87	---
14	111	---	---	---	104	---	---	103	85	100	89	---
15	115	---	---	---	103	116	---	105	85	99	90	---
16	113	---	---	---	103	118	---	99	86	95	88	---
17	108	86	---	---	104	118	---	98	84	100	92	---
18	109	85	---	---	105	---	---	93	84	100	92	---
19	107	86	---	---	107	---	93	93	86	94	89	---
20	109	87	---	---	110	---	93	95	89	97	88	---
21	111	86	---	---	111	---	91	98	91	101	---	---
22	109	89	---	---	113	---	93	107	98	101	---	---
23	104	84	---	---	109	---	96	112	92	101	---	---
24	103	84	---	---	109	---	97	108	91	100	---	---
25	99	82	---	---	111	---	97	112	93	97	---	---
26	97	84	---	---	110	---	99	111	93	93	---	---
27	96	82	---	---	111	---	103	106	94	96	---	---
28	101	80	---	---	112	---	100	104	98	97	---	---
29	102	77	---	---	---	---	104	108	---	94	---	---
30	105	74	---	---	---	---	107	110	---	93	---	---
31	109	---	---	---	---	---	---	101	---	97	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

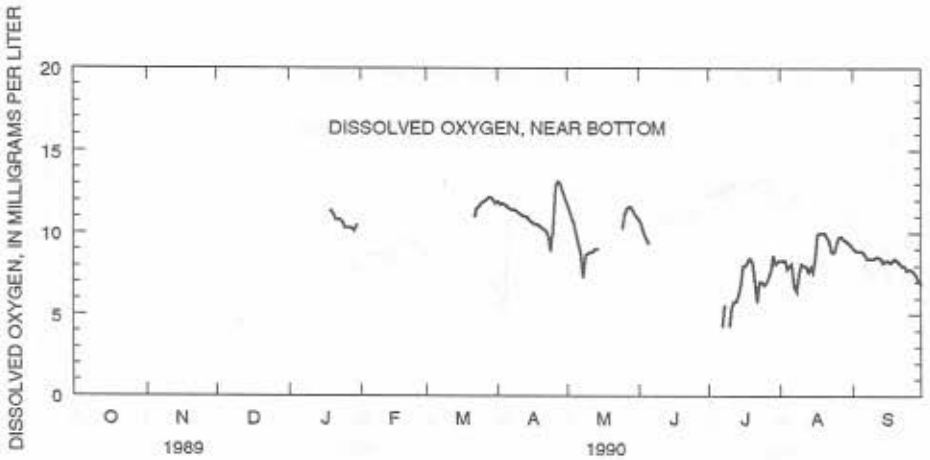
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 13.3 mg/L April 27, 1990; minimum value recorded, 3.6 mg/L July 7, 10, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	11.9	11.7	10.8	---	8.3	9.1
2	---	---	---	---	---	---	11.7	11.3	10.5	---	8.3	8.9
3	---	---	---	---	---	---	11.8	10.9	10.0	---	8.3	8.9
4	---	---	---	---	---	---	11.7	10.5	9.7	---	7.8	8.9
5	---	---	---	---	---	---	11.6	9.9	9.4	---	8.0	8.9
6	---	---	---	---	---	---	11.5	9.3	---	---	8.1	8.7
7	---	---	---	---	---	---	11.4	8.8	---	4.3b	6.7	8.4
8	---	---	---	---	---	---	11.4	7.3	---	5.5	6.4b	8.4
9	---	---	---	---	---	---	11.3	8.6	---	---	7.4	8.4
10	---	---	---	---	---	---	11.2	8.7	---	4.3b	8.1	8.4
11	---	---	---	---	---	---	11.1	8.8	---	5.4b	8.0	8.5
12	---	---	---	---	---	---	11.0	8.8	---	5.8	8.0	8.5
13	---	---	---	---	---	---	11.0	9.0	---	5.8b	7.6	8.4
14	---	---	---	---	---	---	10.9	9.0	---	6.2	7.9	8.2
15	---	---	---	---	---	---	10.7	---	---	6.9	7.6	8.3
16	---	---	---	---	---	---	10.6	---	---	8.0	8.5	8.3
17	---	---	---	---	---	---	10.5	---	---	8.0	9.9	8.2
18	---	---	---	---	---	---	10.5	---	---	8.3	10.0	8.3
19	---	---	---	11.3	---	---	10.4	---	---	8.4	10.0	8.4
20	---	---	---	11.1	---	---	10.3	---	---	8.2	10.0	8.3
21	---	---	---	10.8	---	---	10.2	---	---	6.9	9.7	8.2
22	---	---	---	10.8	---	11.0	10.1	---	---	5.8	9.4	8.0
23	---	---	---	10.8	---	11.5	9.7	---	---	7.0	8.8	8.0
24	---	---	---	10.6	---	11.6	8.9	---	---	7.0	8.8	7.7
25	---	---	---	10.3	---	11.8	10.2	10.3	---	6.8	9.2	7.8
26	---	---	---	10.3	---	11.9	12.8	11.1	---	7.0	9.7	7.7
27	---	---	---	10.3	---	12.0	13.1	11.5	---	7.3	9.8	7.6
28	---	---	---	10.3	---	12.2	13.0	11.6	---	7.7	9.6	7.4
29	---	---	---	10.1	---	12.2	12.6	11.5	---	8.6	9.5	7.1
30	---	---	---	10.4	---	12.0	12.2	11.2	---	8.1	9.4	6.9
31	---	---	---	---	---	11.8	---	11.0	---	8.3	9.3	---



DAILY MEAN DISSOLVED OXYGEN, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

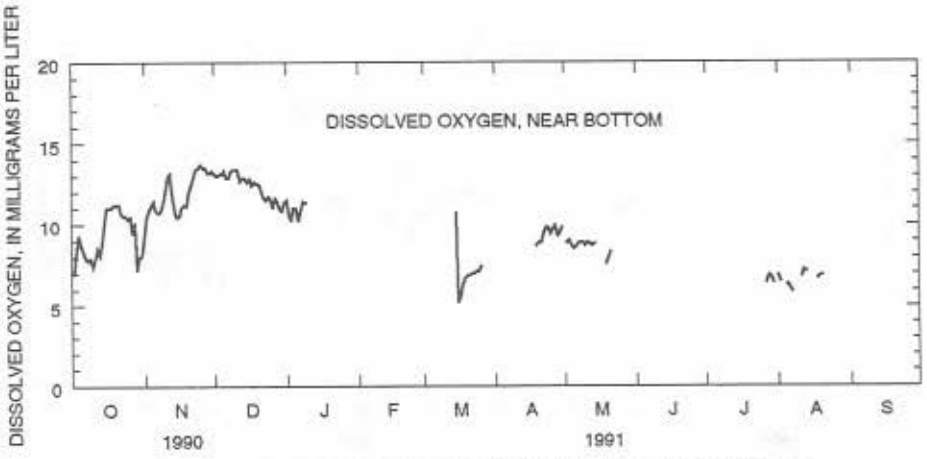
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 13.8 mg/L November 24, 25, 1990; minimum value recorded, 3.4 mg/L May 28, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.0	9.4	13.1	11.5	---	---	---	---	---	---	6.9	---
2	7.0	10.4	13.0	10.6	---	---	---	8.9	---	---	6.5b	---
3	8.1	10.9	13.1	10.2	---	---	---	9.0	---	---	---	---
4	9.3	11.1	13.1	11.0	---	---	---	8.7	---	---	---	---
5	8.8	11.4	13.3	11.0	---	---	---	8.5	---	---	6.3	---
6	8.3	10.8	12.9	10.2	---	---	---	8.6	---	---	6.2b	---
7	7.9	10.7	12.9	10.7	---	---	---	8.8	---	---	5.9	---
8	7.8	10.8	13.3	11.4	---	---	---	8.9	---	---	---	---
9	7.9	11.2	13.4	11.3	---	---	---	8.9	---	---	6.5	---
10	7.4	12.0	13.4	---	---	---	---	8.7	---	---	---	---
11	7.8	13.0	13.4	---	---	---	---	8.9	---	---	6.8	---
12	8.5	13.1	12.7	---	---	---	---	8.8	---	---	7.2	---
13	8.1	11.7	12.9	---	---	---	---	8.7	---	---	7.1	---
14	8.8	10.7	12.9	---	---	---	---	8.8	---	---	---	---
15	10.1	10.4	12.6	---	---	10.7	---	---	---	---	7.3	---
16	11.0	10.5	12.8	---	---	5.2b	---	7.9	---	7.1	---	---
17	11.0	11.0	12.4	---	---	5.6	---	---	---	---	---	---
18	11.0	11.2	12.6	---	---	6.3	---	---	---	---	6.7	---
19	11.2	11.1	12.5	---	---	6.7	8.7	7.6	---	7.0	6.9	---
20	11.2	11.9	12.5	---	---	6.9	8.9	8.0	---	---	6.9	---
21	11.2	12.4	12.1	---	---	6.9	8.9	8.3	---	---	---	---
22	10.7	13.0	11.7	---	---	7.0	9.4	---	---	---	---	---
23	10.5	13.4	11.5	---	---	7.0	9.8	---	---	---	---	---
24	10.5	13.5	11.7	---	---	7.1	9.8	8.3	---	---	---	---
25	10.3	13.7	11.6	---	---	7.1	9.4	---	---	---	---	---
26	10.4	13.5	11.0	---	---	7.4	9.7	---	---	---	---	---
27	9.4	13.5	11.6	---	---	---	9.9	---	---	6.4b	---	---
28	10.1	13.2	11.4	---	---	---	9.3	6.9b	---	6.9	---	---
29	7.2	13.2	10.9	---	---	---	9.4	---	---	6.8	---	---
30	8.0	13.3	10.8	---	---	---	9.8	---	---	6.4	---	---
31	8.1	---	11.3	---	---	---	---	6.2b	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--Continued

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

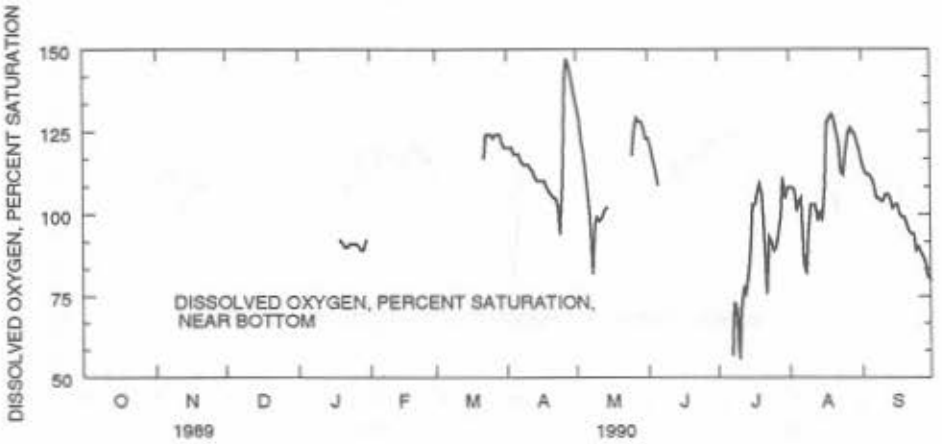
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1989 through September 1990.--Maximum value recorded, 155 percent April 27, 1990; minimum value recorded, 45 percent July 9, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1989-SEPTEMBER 1990

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	120	133	123	---	108	115
2	---	---	---	---	---	---	120	129	120	---	108	113
3	---	---	---	---	---	---	120	123	116	---	107	112
4	---	---	---	---	---	---	118	118	114	---	101	112
5	---	---	---	---	---	---	118	113	109	---	104	111
6	---	---	---	---	---	---	118	105	---	---	105	109
7	---	---	---	---	---	---	116	99	---	57	85	105
8	---	---	---	---	---	---	115	82	---	73	82	105
9	---	---	---	---	---	---	115	97	---	71	94	104
10	---	---	---	---	---	---	115	99	---	56	103	104
11	---	---	---	---	---	---	114	98	---	71	103	106
12	---	---	---	---	---	---	113	99	---	77	103	106
13	---	---	---	---	---	---	111	101	---	76	98	105
14	---	---	---	---	---	---	110	102	---	81	101	102
15	---	---	---	---	---	---	110	---	---	90	98	103
16	---	---	---	---	---	---	110	---	---	103	109	103
17	---	---	---	---	---	---	110	---	---	103	127	100
18	---	---	---	---	---	---	108	---	---	107	129	99
19	---	---	---	92	---	---	107	---	---	109	130	99
20	---	---	---	91	---	---	106	---	---	106	129	97
21	---	---	---	90	---	---	105	---	---	90	125	95
22	---	---	---	90	---	117	105	---	---	76	121	94
23	---	---	---	91	---	124	102	---	---	93	113	94
24	---	---	---	91	---	124	94	---	---	92	112	89
25	---	---	---	91	---	124	110	118	---	89	118	90
26	---	---	---	91	---	123	140	125	---	90	124	88
27	---	---	---	90	---	124	147	129	---	94	126	87
28	---	---	---	89	---	124	145	128	---	99	125	85
29	---	---	---	89	---	124	142	128	---	111	124	81
30	---	---	---	92	---	121	137	126	---	105	121	80
31	---	---	---	---	---	120	---	123	---	108	119	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALBEMARLE SOUND AT LIGHT 3

Table 11.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 5, Albemarle Sound at light 3, October 1989-September 1991*--**Continued**

[Location of site 5 is latitude 36°00'06", longitude 76°23'36", Washington County; U.S. Geological Survey downstream order number 0208115600]

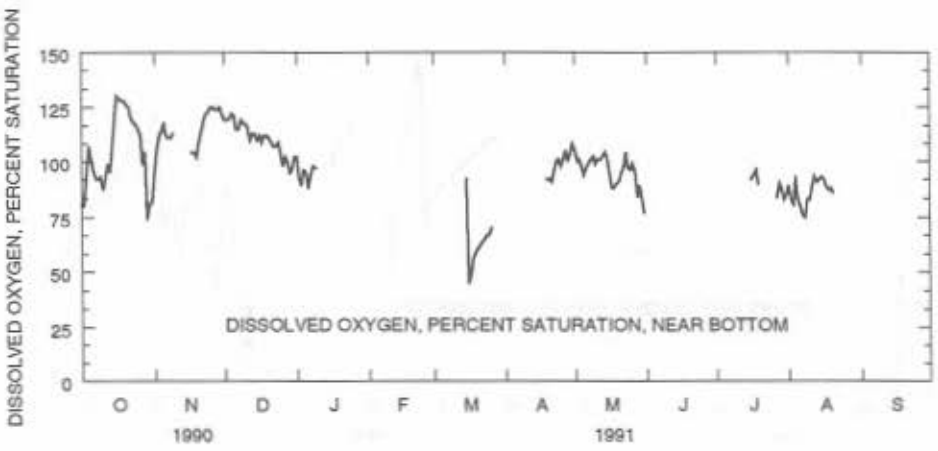
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 141 percent May 26, 1991; minimum value recorded, 42 percent March 16, May 28, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	80	96	119	102	---	---	---	---	---	---	89	---
2	80	105	119	93	---	---	---	100	---	---	83	---
3	92	112	120	89	---	---	---	101	---	---	---	---
4	107	114	122	96	---	---	---	97	---	---	---	---
5	102	118	121	95	---	---	---	94	---	---	82	---
6	96	112	115	88	---	---	---	97	---	---	80	---
7	92	111	115	93	---	---	---	99	---	---	76	---
8	92	111	119	98	---	---	---	101	---	---	---	---
9	93	113	118	97	---	---	---	102	---	---	83	---
10	87	---	117	---	---	---	---	99	---	---	---	---
11	91	---	116	---	---	---	---	101	---	---	89	---
12	99	---	110	---	---	---	---	101	---	---	93	---
13	95	---	113	---	---	---	---	102	---	---	91	---
14	106	---	113	---	---	---	---	104	---	---	---	---
15	121	---	110	---	---	92	---	---	---	---	93	---
16	130	---	112	---	---	45	---	95	---	92	---	---
17	129	104	109	---	---	49	---	---	---	---	---	---
18	128	104	112	---	---	56	---	---	---	---	87	---
19	128	102	112	---	---	59	92	90	---	90	88	---
20	126	109	111	---	---	61	92	91	---	---	86	---
21	125	114	109	---	---	62	91	94	---	---	---	---
22	120	119	107	---	---	64	95	---	---	---	---	---
23	118	122	107	---	---	65	100	---	---	---	---	---
24	117	123	109	---	---	67	101	97	---	---	---	---
25	115	125	105	---	---	67	98	---	---	---	---	---
26	112	125	98	---	---	70	101	---	---	---	---	---
27	99	124	102	---	---	---	105	---	---	84	---	---
28	104	124	100	---	---	---	100	84	---	90	---	---
29	74	125	95	---	---	---	103	---	---	88	---	---
30	81	122	96	---	---	---	108	---	---	83	---	---
31	82	---	102	---	---	---	---	77	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALBEMARLE SOUND AT LIGHT 3

Table 12.--*Five-day mean water temperature and dissolved-oxygen values in water at site 5, Albemarle Sound at light 3, October 1989-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
10/01/89-10/05/89	---	---	---	---	---	---	---	---
10/06/89-10/10/89	---	---	---	---	---	---	---	---
10/11/89-10/15/89	---	---	---	---	---	---	---	---
10/16/89-10/20/89	---	---	---	---	---	---	---	---
10/21/89-10/25/89	---	---	---	---	---	---	---	---
10/26/89-10/30/89	---	---	---	---	---	---	---	---
10/31/89-11/04/89	---	---	---	---	---	---	---	---
11/05/89-11/09/89	---	---	---	---	---	---	---	---
11/10/89-11/14/89	---	---	---	---	---	---	---	---
11/15/89-11/19/89	---	---	---	---	---	---	---	---
11/20/89-11/24/89	---	---	---	---	---	---	---	---
11/25/89-11/29/89	---	---	---	---	---	---	---	---
11/30/89-12/04/89	---	---	---	---	---	---	---	---
12/05/89-12/09/89	---	---	---	---	---	---	---	---
12/10/89-12/14/89	---	---	---	---	---	---	---	---
12/15/89-12/19/89	---	---	---	---	---	---	---	---
12/20/89-12/24/89	---	---	---	---	---	---	---	---
12/25/89-12/29/89	---	---	---	---	---	---	---	---
12/30/89-01/03/90	---	---	---	---	---	---	---	---
01/04/90-01/08/90	---	---	---	---	---	---	---	---
01/09/90-01/13/90	---	---	---	---	---	---	---	---
01/14/90-01/18/90	6.3	6.2	11.7	11.3	11.6	11.5	11.2	11.4
01/19/90-01/23/90	7.3	7.4	11.2	11.1	11.3	11.1	10.9	10.8
01/24/90-01/28/90	9.5	9.3	10.9	10.9	10.9	10.8	10.4	10.3
01/29/90-02/02/90	10.0	10.0	10.8	10.8	10.9	10.8	10.3	10.3
02/03/90-02/07/90	---	---	---	---	---	---	---	---
02/08/90-02/12/90	---	---	---	---	---	---	---	---
02/13/90-02/17/90	---	---	---	---	---	---	---	---
02/18/90-02/22/90	---	---	---	---	---	---	---	---
02/23/90-02/27/90	---	---	---	---	---	---	---	---
02/28/90-03/04/90	---	---	---	---	---	---	---	---
03/05/90-03/09/90	---	---	---	---	---	---	---	---
03/10/90-03/14/90	---	---	---	---	---	---	---	---
03/15/90-03/19/90	---	---	---	---	---	---	---	---
03/20/90-03/24/90	18.8	18.2	10.3	10.4	9.1	9.1	10.9	11.2

Table 12.--*Five-day mean water temperature and dissolved-oxygen values in water at site 5, Albemarle Sound at light 3, October 1989-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
03/25/90-03/29/90	16.7	16.3	10.7	10.6	9.6	9.5	12.1	12.0
03/30/90-04/03/90	16.0	15.8	10.7	10.6	9.4	9.3	11.9	11.8
04/04/90-04/08/90	16.2	15.8	---	---	9.4	9.3	11.5	11.5
04/09/90-04/13/90	16.5	16.0	---	---	9.4	9.3	11.1	11.1
04/14/90-04/18/90	17.0	16.6	---	---	9.2	9.2	10.6	10.6
04/19/90-04/23/90	17.2	16.6	10.0	9.1	9.7	9.4	10.1	9.9
04/24/90-04/28/90	20.3	19.5	9.8	9.1	9.4	8.9	11.7	12.1
04/29/90-05/03/90	21.4	21.1	9.5	9.1	9.1	8.9	11.7	11.5
05/04/90-05/08/90	21.4	21.0	9.0	8.7	8.9	8.6	9.2	8.8
05/09/90-05/13/90	21.1	20.9	8.8	8.6	8.6	8.4	8.8	8.8
05/14/90-05/18/90	21.7	21.3	8.8	8.7	8.5	8.4	9.0	9.1
05/19/90-05/23/90	---	---	---	---	---	---	---	---
05/24/90-05/28/90	21.3	20.9	8.3	8.0	8.6	8.4	11.0	11.0
05/29/90-06/02/90	21.5	21.1	9.1	8.8	9.1	8.9	11.0	10.8
06/03/90-06/07/90	22.9	22.4	9.6	9.1	9.4	9.0	9.7	9.5
06/08/90-06/12/90	---	---	---	---	---	---	---	---
06/13/90-06/17/90	---	---	---	---	---	---	---	---
06/18/90-06/22/90	---	---	---	---	---	---	---	---
06/23/90-06/27/90	---	---	---	---	---	---	---	---
06/28/90-07/02/90	---	---	---	---	---	---	---	---
07/03/90-07/07/90	29.4	28.8	7.7	7.0	7.9	7.4	4.2	4.5
07/08/90-07/12/90	29.6	29.1	7.3	6.9	7.7	7.4	5.4	5.3
07/13/90-07/17/90	28.7	28.4	7.3	7.0	7.8	7.5	7.0	7.3
07/18/90-07/22/90	29.0	28.6	7.7	7.2	8.0	7.5	7.4	7.4
07/23/90-07/27/90	29.1	28.6	7.7	7.3	7.8	7.5	7.1	7.1
07/28/90-08/01/90	28.9	28.3	8.3	7.6	8.3	7.7	8.2	8.3
08/02/90-08/06/90	28.9	28.2	8.1	7.4	6.5	6.2	8.0	8.1
08/07/90-08/11/90	27.7	27.4	7.6	7.2	6.5	6.3	7.4	7.3
08/12/90-08/16/90	28.4	27.8	9.3	8.8	7.9	7.6	8.0	8.1
08/17/90-08/21/90	28.5	28.0	9.4	8.8	---	---	10.0	9.9
08/22/90-08/26/90	28.0	27.7	8.8	8.3	---	---	9.1	9.4
08/27/90-08/31/90	28.5	28.1	8.1	7.8	---	---	9.5	9.4
09/01/90-09/05/90	27.1	26.5	8.1	7.6	---	---	9.0	8.9
09/06/90-09/10/90	26.6	26.2	7.3	6.7	---	---	8.5	8.4
09/11/90-09/15/90	26.5	26.2	6.7	6.3	---	---	8.4	8.3

Table 12.--***Five-day mean water temperature and dissolved-oxygen values in water at site 5, Albemarle Sound at light 3, October 1989-September 1991, for day and night periods***--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
09/16/90-09/20/90	24.5	23.9	7.0	6.6	---	---	8.3	8.2
09/21/90-09/25/90	22.8	22.4	6.9	6.6	---	---	8.0	7.9
09/26/90-09/30/90	22.1	21.8	6.7	6.4	---	---	7.4	7.3
10/01/90-10/05/90	22.2	21.8	7.5	7.1	9.9	9.4	8.3	8.0
10/06/90-10/10/90	23.2	22.7	7.9	7.4	9.8	9.1	8.0	7.6
10/11/90-10/15/90	23.8	23.6	8.1	7.8	9.2	8.9	8.6	9.3
10/16/90-10/20/90	22.3	21.8	8.5	8.0	9.7	9.3	11.2	11.1
10/21/90-10/25/90	20.7	20.4	8.1	7.9	9.5	9.2	10.6	10.6
10/26/90-10/30/90	17.0	16.3	9.1	9.1	9.8	9.8	8.9	8.7
10/31/90-11/04/90	16.4	16.1	9.9	9.5	10.8	10.4	9.8	10.7
11/05/90-11/09/90	16.5	16.5	9.9	9.9	10.3	10.2	10.8	11.2
11/10/90-11/14/90	---	---	10.3	10.4	10.4	10.4	12.1	11.9
11/15/90-11/19/90	12.4	12.0	10.2	10.0	9.7	9.4	10.9	10.9
11/20/90-11/24/90	11.5	11.2	10.2	10.0	9.4	9.2	12.9	13.1
11/25/90-11/29/90	12.1	11.9	9.7	9.5	8.8	8.6	13.4	13.3
11/30/90-12/04/90	11.6	11.4	9.9	9.8	8.2	8.1	13.1	13.1
12/05/90-12/09/90	10.2	9.9	10.2	10.2	---	---	13.1	13.3
12/10/90-12/14/90	9.4	9.3	10.6	10.5	---	---	13.1	12.9
12/15/90-12/19/90	9.8	9.8	10.6	10.4	---	---	12.5	12.7
12/20/90-12/24/90	11.2	11.3	10.2	10.2	---	---	11.9	11.8
12/25/90-12/29/90	9.9	9.7	10.4	10.5	---	---	11.3	11.2
12/30/90-01/03/91	9.9	10.0	10.5	10.4	---	---	10.9	10.8
01/04/91-01/08/91	9.1	8.9	10.7	10.7	---	---	10.9	11.0
01/09/91-01/13/91	8.3	8.2	10.8	10.7	---	---	11.2	11.0
01/14/91-01/18/91	---	---	---	---	---	---	---	---
01/19/91-01/23/91	---	---	---	---	---	---	---	---
01/24/91-01/08/91	---	---	---	---	---	---	---	---
01/29/91-02/02/91	---	---	---	---	---	---	---	---
02/03/91-02/07/91	---	---	---	---	---	---	---	---
02/08/91-02/12/91	8.4	8.1	12.3	12.4	12.0	12.0	---	---
02/13/91-02/17/91	7.7	7.5	12.8	12.7	12.4	12.4	---	---
02/18/91-02/22/91	8.1	8.1	13.2	13.2	12.9	12.9	---	---
02/23/91-02/27/91	8.2	8.0	13.3	13.4	13.0	13.0	---	---
02/28/91-03/04/91	9.6	9.7	13.4	13.3	13.1	13.0	---	---
03/05/91-03/09/91	10.7	10.4	13.2	13.2	13.0	12.9	---	---

Table 12.--*Five-day mean water temperature and dissolved-oxygen values in water at site 5, Albemarle Sound at light 3, October 1989-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
03/10/91-03/14/91	9.6	9.3	13.7	13.7	13.4	13.4	13.1	12.9
03/15/91-03/19/91	9.5	9.2	14.0	13.9	13.6	13.5	6.8	6.1
03/20/91-03/24/91	11.4	11.6	13.1	12.9	---	---	7.0	7.0
03/25/91-03/29/91	14.0	14.1	11.8	11.6	---	---	7.2	7.3
03/30/91-04/03/91	14.6	14.1	11.0	10.9	---	---	---	---
04/04/91-04/08/91	16.2	15.9	10.5	10.2	---	---	---	---
04/09/91-04/13/91	17.5	17.1	9.3	9.1	---	---	---	---
04/14/91-04/18/91	18.2	17.9	9.0	8.7	9.1	8.9	9.4	8.7
04/19/91-04/23/91	16.8	16.5	9.2	9.2	9.1	9.1	9.2	9.1
04/24/91-04/28/91	18.0	17.7	9.7	9.4	9.5	9.3	9.6	9.5
04/29/91-05/03/91	20.7	20.5	9.8	9.3	9.7	9.3	9.3	9.3
05/04/91-05/08/91	21.2	20.9	8.9	8.7	8.8	8.6	8.8	8.6
05/09/91-05/13/91	22.3	21.9	9.1	8.8	9.0	8.7	8.8	8.7
05/14/91-05/18/91	24.6	24.1	8.6	8.2	8.4	8.1	8.0	7.8
05/19/91-05/23/91	22.6	22.2	8.9	8.6	8.9	8.7	8.3	8.2
05/24/91-05/28/91	24.9	24.7	9.1	8.5	9.2	8.6	8.2	7.3
05/29/91-06/02/91	27.5	26.9	8.4	7.8	8.3	7.7	6.7	6.4
06/03/91-06/07/91	26.3	25.6	7.9	7.7	7.2	7.0	---	---
06/08/91-06/12/91	24.8	23.9	8.6	8.1	7.7	7.3	---	---
06/13/91-06/17/91	25.8	25.6	8.3	7.9	7.1	6.7	---	---
06/18/91-06/22/91	27.0	26.7	7.9	7.7	7.2	7.1	---	---
06/23/91-06/27/91	25.7	25.3	8.0	7.9	7.7	7.5	---	---
06/28/91-07/02/91	27.8	27.3	8.1	7.7	7.9	7.6	---	---
07/03/91-07/07/91	28.9	28.7	7.5	7.2	7.7	7.5	---	---
07/08/91-07/12/91	29.5	29.0	7.0	6.6	7.7	7.3	---	---
07/13/91-07/17/91	29.4	28.9	7.7	7.4	7.7	7.4	7.5	7.0
07/18/91-07/22/91	29.1	28.7	---	---	7.8	7.3	7.3	6.9
07/23/91-07/27/91	29.5	29.1	---	---	7.6	7.2	6.5	6.6
07/28/91-08/01/91	28.5	28.1	---	---	7.6	7.2	6.9	6.5
08/02/91-08/06/91	28.6	28.2	---	---	7.2	6.9	6.6	6.3
08/07/91-08/11/91	28.5	28.2	---	---	6.8	6.6	6.4	6.3
08/12/91-08/16/91	28.0	27.6	---	---	7.0	6.8	7.3	7.0
08/17/91-08/21/91	27.7	27.3	---	---	7.2	6.9	7.0	6.7
08/22/91-08/26/91	---	---	---	---	---	---	---	---
08/27/91-08/31/91	---	---	---	---	---	---	---	---

Table 12.--***Five-day mean water temperature and dissolved-oxygen values in water at site 5, Albemarle Sound at light 3, October 1989-September 1991, for day and night periods***--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
09/01/91-09/05/91	---	---	---	---	---	---	---	---
09/06/91-09/10/91	---	---	---	---	---	---	---	---
09/11/91-09/15/91	---	---	---	---	---	---	---	---
09/16/91-09/20/91	---	---	---	---	---	---	---	---
09/21/91-09/25/91	---	---	---	---	---	---	---	---
09/26/91-09/30/91	---	---	---	---	---	---	---	---

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

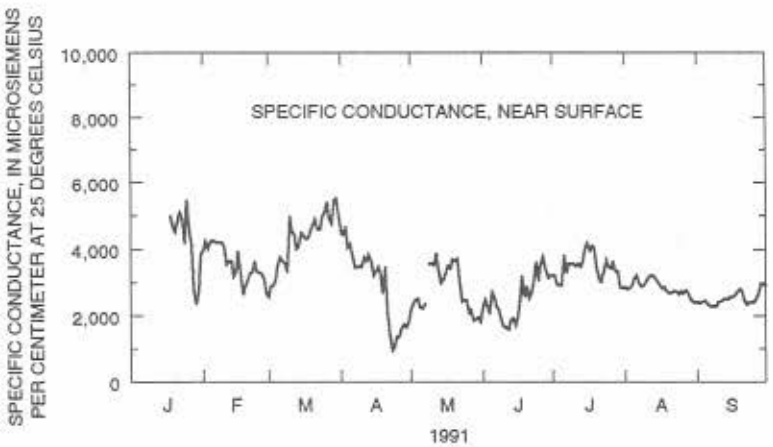
Specific Conductance, Near Surface

Sensor Position.--8 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 6,570 µS/cm March 10, 1991; minimum value recorded, 673 µS/cm April 22, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	3,960	2,570	4,480	2,170	2,260	3,210	2,850	2,410
2	---	4,220	2,900	4,420	2,320	2,460	3,210	2,790	2,370
3	---	4,010	2,920	4,660	2,460	2,240	2,930	2,840	2,400
4	---	4,220	3,080	4,060	2,500	2,050	2,920	2,880	2,440
5	---	4,240	3,540	4,140	2,250	2,670	2,920	3,120	2,370
6	---	4,220	3,730	3,770	2,210	2,530	3,820	3,210	2,290
7	---	4,190	3,620	3,450	2,330	2,260	3,280	3,010	2,260
8	---	4,180	3,590	3,460	---	2,160	3,550	2,880	2,280
9	---	4,180	3,310	3,500	3,550	1,820	3,550	2,910	2,260
10	---	4,030	4,970	3,470	3,590	1,660	3,550	3,010	2,400
11	---	3,560	4,510	3,740	3,530	1,620	3,500	3,160	2,420
12	---	3,650	4,440	3,650	3,860	1,590	3,570	3,210	2,480
13	---	3,650	4,020	3,820	3,400	1,830	3,490	3,200	2,510
14	---	3,180	4,090	3,650	2,990	1,910	3,610	3,120	2,490
15	---	3,310	4,470	3,200	3,080	1,700	4,060	3,020	2,570
16	---	3,930	4,400	3,310	3,230	1,910	4,170	2,910	2,550
17	---	3,280	4,290	3,470	3,500	2,480	3,950	2,820	2,610
18	4,980	2,630	4,320	3,330	3,430	3,180	4,100	2,860	2,700
19	4,680	2,880	4,550	2,650	3,690	2,560	4,020	2,710	2,800
20	4,530	3,060	4,720	3,460	3,640	2,880	3,380	2,660	2,710
21	4,810	3,280	4,880	2,150	3,700	2,520	3,090	2,680	2,460
22	5,070	3,290	4,580	1,430	3,070	2,690	3,030	2,730	2,320
23	4,910	3,640	4,590	961	2,430	3,120	3,350	2,720	2,390
24	4,170	3,320	5,000	1,040	2,470	3,610	3,660	2,640	2,410
25	5,450	3,280	5,090	1,360	2,460	3,060	3,490	2,710	2,390
26	4,560	3,250	5,390	1,350	2,100	3,560	3,420	2,660	2,500
27	4,070	3,080	4,920	1,600	2,140	3,750	3,650	2,760	2,640
28	2,730	2,650	4,760	1,710	1,850	3,380	3,320	2,660	2,970
29	2,340	---	5,470	1,650	1,890	3,150	3,320	2,490	2,950
30	2,730	---	5,510	1,780	1,930	3,200	2,830	2,400	2,910
31	3,820	---	5,000	---	1,820	---	2,840	2,390	---



DAILY MEAN SPECIFIC CONDUCTANCE, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

Salinity, Near Surface

Sensor Position.--8 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 3.6 ppt March 10, 1991; minimum value recorded, 0.3 ppt April 22, 23, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	2.1	1.3	2.4	1.1	1.1	1.7	1.5	1.2
2	---	2.2	1.5	2.3	1.2	1.2	1.7	1.4	1.2
3	---	2.1	1.5	2.5	1.2	1.1	1.5	1.5	1.2
4	---	2.2	1.6	2.1	1.3	1.0	1.5	1.5	1.2
5	---	2.2	1.8	2.2	1.1	1.4	1.5	1.6	1.2
6	---	2.2	1.9	2.0	1.1	1.3	2.0	1.7	1.2
7	---	2.2	1.9	1.8	1.2	1.1	1.7	1.6	1.1
8	---	2.2	1.9	1.8	---	1.1	1.8	1.5	1.1
9	---	2.2	1.7	1.8	1.8	.9	1.8	1.5	1.1
10	---	2.1	2.7	1.8	1.9	.8	1.8	1.6	1.2
11	---	1.9	2.4	2.0	1.8	.8	1.8	1.6	1.2
12	---	1.9	2.3	1.9	2.0	.8	1.9	1.7	1.3
13	---	1.9	2.1	2.0	1.8	.9	1.8	1.7	1.3
14	---	1.6	2.1	1.9	1.5	1.0	1.9	1.6	1.3
15	---	1.7	2.4	1.7	1.6	.8	2.1	1.6	1.3
16	---	2.1	2.3	1.7	1.7	1.0	2.2	1.5	1.3
17	---	1.7	2.3	1.8	1.8	1.3	2.1	1.4	1.3
18	2.7	1.3	2.3	1.7	1.8	1.6	2.2	1.5	1.4
19	2.5	1.5	2.4	1.4	1.9	1.3	2.1	1.4	1.4
20	2.4	1.6	2.5	1.8	1.9	1.5	1.8	1.4	1.4
21	2.6	1.7	2.6	1.1	1.9	1.3	1.6	1.4	1.2
22	2.7	1.7	2.4	.7	1.6	1.4	1.6	1.4	1.2
23	2.6	1.9	2.4	.5	1.2	1.6	1.7	1.4	1.2
24	2.2	1.7	2.7	.5	1.3	1.9	1.9	1.3	1.2
25	2.9	1.7	2.7	.7	1.2	1.6	1.8	1.4	1.2
26	2.4	1.7	2.9	.7	1.1	1.9	1.8	1.4	1.3
27	2.1	1.6	2.6	.8	1.1	2.0	1.9	1.4	1.3
28	1.4	1.4	2.5	.8	.9	1.8	1.7	1.4	1.5
29	1.2	---	2.9	.8	.9	1.6	1.7	1.3	1.5
30	1.4	---	3.0	.9	1.0	1.7	1.5	1.2	1.5
31	2.0	---	2.7	---	.9	---	1.5	1.2	---

DAILY MEAN SALINITY, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

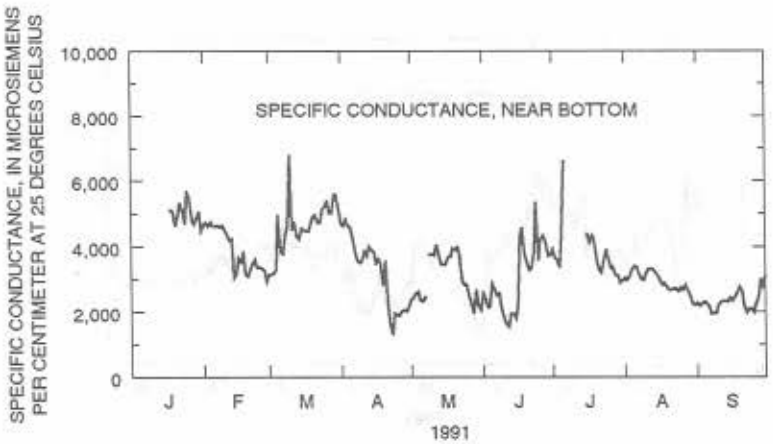
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 10,100 µS/cm June 24, 1991; minimum value recorded, 812 µS/cm April 22, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	4,650	3,140	4,660	2,390	2,560	3,920	3,030	2,270
2	---	4,710	3,150	4,620	2,420	2,430	3,670	2,970	2,190
3	---	4,620	3,180	4,820	2,560	2,160	3,590	3,100	2,260
4	---	4,730	3,300	4,640	2,610	2,140	3,370	3,270	2,310
5	---	4,630	4,950	4,560	2,370	2,860	4,340	3,410	2,250
6	---	4,620	3,840	4,240	2,330	2,670	6,580	3,390	2,140
7	---	4,640	3,780	3,820	2,450	2,510	---	3,180	1,940
8	---	4,580	4,300	3,550	---	2,560	---	3,020	1,960
9	---	4,640	4,650	3,500	3,760	2,060	---	2,980	1,960
10	---	4,490	6,770	3,560	3,780	1,840	---	3,150	2,200
11	---	4,380	4,510	3,860	3,730	1,610	---	3,300	2,300
12	---	4,190	4,730	3,720	4,060	1,550	---	3,330	2,320
13	---	4,230	4,320	4,000	3,820	1,940	---	3,310	2,330
14	---	3,050	4,230	3,890	3,470	1,930	---	3,220	2,310
15	---	3,170	4,540	3,830	3,450	1,790	---	3,090	2,420
16	---	3,650	4,510	3,510	3,470	2,110	4,390	2,980	2,350
17	---	3,520	4,460	3,620	3,690	4,290	4,130	2,830	2,470
18	5,090	3,850	4,470	3,460	3,700	4,560	4,320	2,870	2,590
19	5,050	3,160	4,660	2,810	3,930	3,780	4,210	2,750	2,760
20	4,640	3,090	4,910	3,560	3,900	3,490	3,570	2,650	2,630
21	4,910	3,330	4,950	2,340	3,970	3,280	3,290	2,670	2,190
22	5,330	3,460	4,720	1,570	3,740	3,360	3,220	2,720	1,980
23	5,090	3,600	4,730	1,300	2,950	3,880	3,600	2,700	2,080
24	4,700	3,370	5,160	1,930	2,820	5,340	3,910	2,630	2,100
25	5,670	3,370	5,190	1,890	2,840	3,580	3,610	2,740	1,980
26	5,440	3,350	5,410	1,880	2,440	4,200	3,340	2,670	2,230
27	4,800	3,250	5,010	2,020	2,290	4,330	3,390	2,820	2,430
28	4,680	2,930	5,020	2,050	1,960	4,150	3,130	2,630	2,970
29	4,870	---	5,590	2,010	2,670	3,710	3,120	2,450	2,770
30	5,050	---	5,550	2,140	2,200	3,730	2,890	2,240	3,080
31	4,480	---	5,130	---	2,060	---	2,950	2,210	---



DAILY MEAN SPECIFIC CONDUCTANCE, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

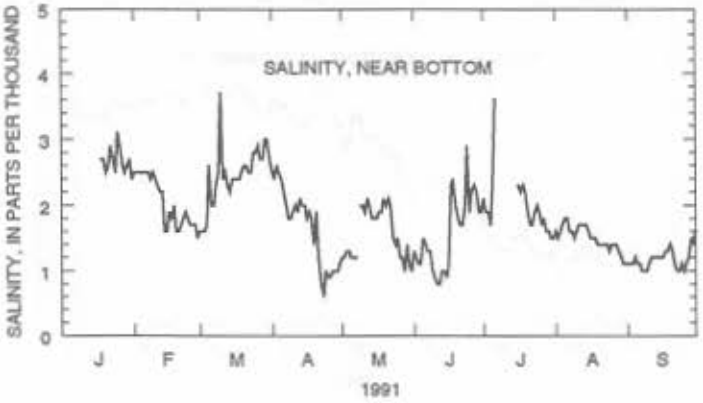
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 5.7 ppt June 24, 1991; minimum value recorded, 0.4 ppt, April 22, 23, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	2.5	1.6	2.5	1.2	1.3	2.1	1.6	1.1
2	---	2.5	1.6	2.4	1.2	1.2	1.9	1.5	1.1
3	---	2.5	1.6	2.6	1.3	1.1	1.9	1.6	1.1
4	---	2.5	1.7	2.5	1.3	1.1	1.7	1.7	1.2
5	---	2.5	2.6	2.4	1.2	1.5	2.3	1.8	1.1
6	---	2.5	2.0	2.2	1.2	1.4	3.6	1.8	1.1
7	---	2.5	2.0	2.0	1.2	1.3	---	1.6	1.0
8	---	2.4	2.3	1.8	---	1.3	---	1.6	1.0
9	---	2.5	2.5	1.8	2.0	1.0	---	1.5	1.0
10	---	2.4	3.7	1.9	2.0	.9	---	1.6	1.1
11	---	2.3	2.4	2.0	1.9	.8	---	1.7	1.2
12	---	2.2	2.5	1.9	2.1	.8	---	1.7	1.2
13	---	2.2	2.3	2.1	2.0	1.0	---	1.7	1.2
14	---	1.6	2.2	2.0	1.8	1.0	---	1.7	1.2
15	---	1.6	2.4	2.0	1.8	.9	---	1.6	1.2
16	---	1.9	2.4	1.8	1.8	1.1	2.3	1.5	1.2
17	---	1.8	2.4	1.9	1.9	2.3	2.2	1.5	1.3
18	2.7	2.0	2.4	1.8	1.9	2.4	2.3	1.5	1.3
19	2.7	1.6	2.5	1.4	2.1	2.0	2.2	1.4	1.4
20	2.5	1.6	2.6	1.9	2.0	1.8	1.9	1.4	1.3
21	2.6	1.7	2.6	1.2	2.1	1.7	1.7	1.4	1.1
22	2.9	1.8	2.5	.8	2.0	1.7	1.7	1.4	1.0
23	2.7	1.9	2.5	.6	1.5	2.0	1.9	1.4	1.0
24	2.5	1.8	2.8	1.0	1.4	2.9	2.0	1.3	1.1
25	3.1	1.7	2.8	.9	1.5	1.9	1.9	1.4	1.0
26	2.9	1.7	2.9	.9	1.2	2.2	1.7	1.4	1.1
27	2.6	1.7	2.7	1.0	1.2	2.3	1.8	1.4	1.2
28	2.5	1.5	2.7	1.0	1.0	2.2	1.6	1.3	1.5
29	2.6	---	3.0	1.0	1.4	1.9	1.6	1.2	1.4
30	2.7	---	3.0	1.1	1.1	1.9	1.5	1.1	1.6
31	2.4	---	2.7	---	1.0	---	1.5	1.1	---



DAILY MEAN SALINITY, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

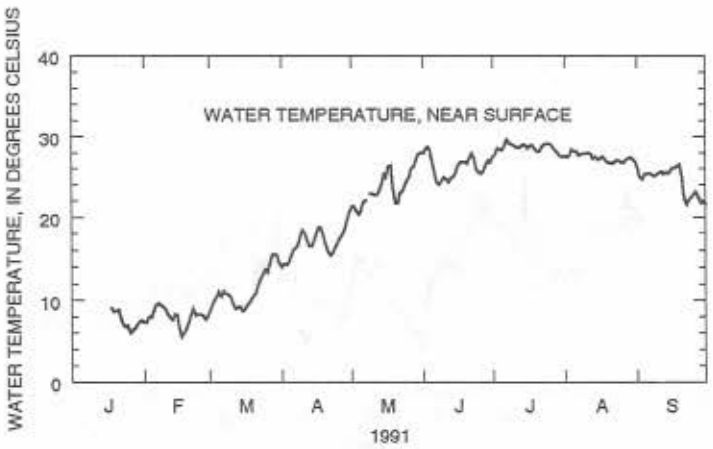
Water Temperature, Near Surface

Sensor Position.--8 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 31.2 °C July 8, 1991; minimum value recorded, 3.2 °C February 17, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	7.3	8.6	14.0	21.3	28.0	27.5	27.6	26.3
2	---	7.3	9.2	14.4	21.4	28.4	27.7	27.4	24.9
3	---	8.0	9.9	14.2	20.8	28.7	28.5	27.7	24.7
4	---	7.9	10.5	14.4	20.4	28.4	28.4	28.4	25.3
5	---	8.6	11.0	15.3	20.6	26.9	28.3	28.1	25.4
6	---	9.4	10.5	16.0	21.7	25.4	28.8	28.1	25.4
7	---	9.6	11.1	16.4	22.0	24.2	29.6	27.7	25.3
8	---	9.4	10.8	16.6	---	24.0	29.2	27.8	25.1
9	---	9.2	10.7	17.8	22.9	24.5	29.0	27.9	25.2
10	---	8.8	10.3	18.4	22.9	24.9	28.9	27.9	25.4
11	---	8.4	9.6	17.9	22.7	24.7	28.7	28.0	25.6
12	---	7.8	9.0	17.1	22.7	24.3	28.6	27.8	25.4
13	---	7.6	9.1	16.5	23.1	24.8	28.7	27.3	25.5
14	---	8.3	9.2	16.5	23.9	25.0	29.0	27.5	25.4
15	---	8.2	8.7	17.2	25.2	25.5	28.9	27.1	25.6
16	---	6.7	8.8	18.0	24.9	26.3	28.5	27.3	26.1
17	---	5.5	9.3	18.8	26.2	26.8	28.8	27.5	26.1
18	9.0	6.0	9.7	18.7	26.4	26.9	28.9	27.3	26.3
19	8.6	6.5	10.1	17.6	23.7	26.8	28.5	26.8	26.5
20	8.7	7.3	10.6	16.7	21.7	26.6	28.1	26.7	24.9
21	8.8	8.3	10.9	15.9	21.7	27.3	28.1	26.6	22.3
22	7.8	9.0	11.9	15.4	22.9	27.9	28.6	26.7	21.5
23	7.0	8.1	12.7	15.7	23.2	27.3	29.0	27.0	22.1
24	6.7	8.3	13.3	16.3	23.9	25.9	29.1	27.0	22.4
25	6.9	8.3	13.7	16.8	24.5	25.5	29.1	26.8	22.8
26	6.0	8.1	13.4	17.4	25.0	25.4	29.0	26.7	23.1
27	6.3	7.7	14.4	17.8	26.0	25.6	28.6	27.0	22.4
28	6.6	7.9	15.5	18.4	26.2	26.5	28.2	27.3	21.7
29	7.0	---	15.5	19.7	27.2	27.0	27.9	27.4	21.8
30	7.4	---	15.4	20.4	27.8	26.8	27.6	27.2	21.6
31	7.5	---	14.5	---	28.0	---	27.5	26.9	---



DAILY MEAN WATER TEMPERATURE, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

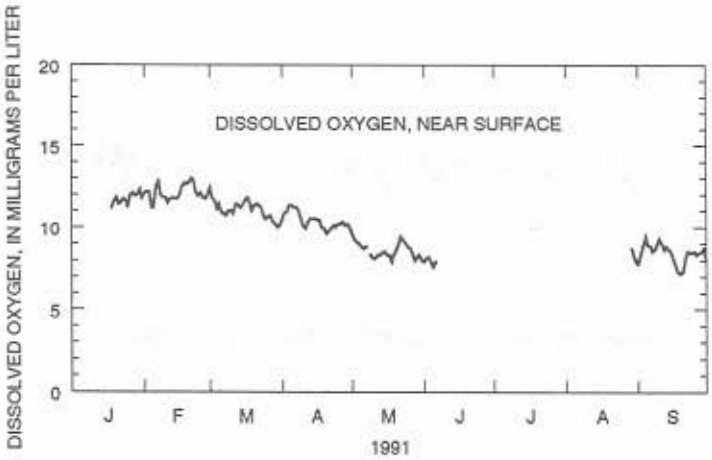
Dissolved Oxygen, Near Surface

Sensor Position.--8 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 13.5 mg/L February 21, 1991; minimum value recorded, 6.7 mg/L September 19, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	12.1	12.4	10.5	9.6	7.9	---	---	7.8
2	---	12.2	11.8	10.9	9.3	8.1	---	---	8.3
3	---	12.2	11.6	10.9	9.1	8.2	---	---	8.9
4	---	11.2	11.1	11.3	9.0	7.9	---	---	9.4
5	---	11.2	11.4	11.3	8.8	7.6	---	---	8.9
6	---	12.5	10.9	11.2	8.7	7.9	---	---	8.9
7	---	12.8	10.8	11.2	8.8	---	---	---	8.5
8	---	12.0	10.7	11.0	---	---	---	---	8.6
9	---	11.8	11.0	10.5	8.3	---	---	---	9.0
10	---	11.8	11.0	10.1	8.1	---	---	---	9.3
11	---	11.5	10.8	9.9	8.1	---	---	---	9.0
12	---	11.7	11.4	10.3	8.3	---	---	---	8.6
13	---	11.8	11.4	10.5	8.3	---	---	---	8.8
14	---	11.7	11.2	10.5	8.4	---	---	---	8.6
15	---	11.7	11.3	10.5	8.5	---	---	---	8.5
16	---	11.9	11.6	10.4	8.3	---	---	---	8.1
17	---	12.4	11.8	10.4	8.3	---	---	---	7.6
18	11.2	12.7	11.5	10.0	7.9	---	---	---	7.3
19	11.5	12.6	11.0	9.9	8.3	---	---	---	7.2
20	11.8	12.7	11.3	9.6	8.6	---	---	---	7.3
21	11.4	13.0	11.4	9.7	9.0	---	---	---	8.0
22	11.5	12.9	11.3	9.9	9.4	---	---	---	8.5
23	11.7	12.1	11.2	10.1	9.2	---	---	---	8.4
24	11.6	11.9	10.6	10.0	9.0	---	---	---	8.4
25	11.2	12.1	10.5	10.2	8.8	---	---	---	8.5
26	12.0	11.8	10.6	10.2	8.7	---	---	---	8.3
27	12.1	11.7	10.7	10.3	8.4	---	---	---	8.4
28	11.9	12.0	10.3	10.1	8.0	---	---	---	8.5
29	12.0	---	10.2	10.2	8.2	---	---	8.7	8.7
30	12.3	---	10.0	10.0	8.3	---	---	8.3	8.0
31	11.8	---	10.1	---	8.0	---	---	7.9	---



DAILY MEAN DISSOLVED OXYGEN, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

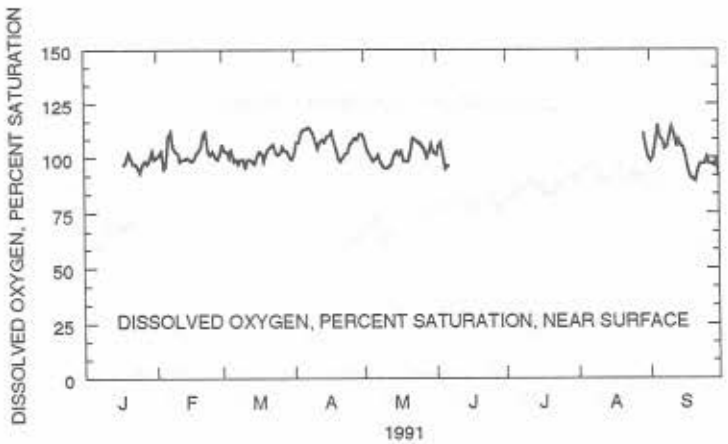
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--8 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 134 percent September 4, 1991; minimum value recorded, 82 percent September 19, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	100	106	102	109	101	---	---	98
2	---	101	103	107	105	105	---	---	100
3	---	103	103	107	102	107	---	---	107
4	---	95	100	111	100	102	---	---	115
5	---	96	104	113	98	95	---	---	109
6	---	110	98	113	99	96	---	---	108
7	---	112	99	114	101	---	---	---	104
8	---	105	97	113	---	---	---	---	105
9	---	103	99	111	96	---	---	---	110
10	---	102	99	108	95	---	---	---	114
11	---	98	95	104	95	---	---	---	111
12	---	99	99	107	96	---	---	---	105
13	---	99	99	108	97	---	---	---	108
14	---	100	98	107	101	---	---	---	105
15	---	99	97	110	103	---	---	---	105
16	---	98	100	110	101	---	---	---	100
17	---	99	103	112	103	---	---	---	94
18	97	102	102	108	98	---	---	---	91
19	98	103	98	104	98	---	---	---	90
20	102	105	102	99	98	---	---	---	89
21	99	111	104	98	103	---	---	---	93
22	97	112	105	100	109	---	---	---	97
23	97	103	106	102	108	---	---	---	97
24	95	101	102	102	107	---	---	---	97
25	93	103	101	106	107	---	---	---	100
26	97	100	102	107	105	---	---	---	97
27	98	99	105	109	104	---	---	---	97
28	97	101	103	108	100	---	---	---	96
29	99	---	103	111	103	---	---	111	99
30	103	---	100	111	106	---	---	105	91
31	99	---	99	---	102	---	---	100	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

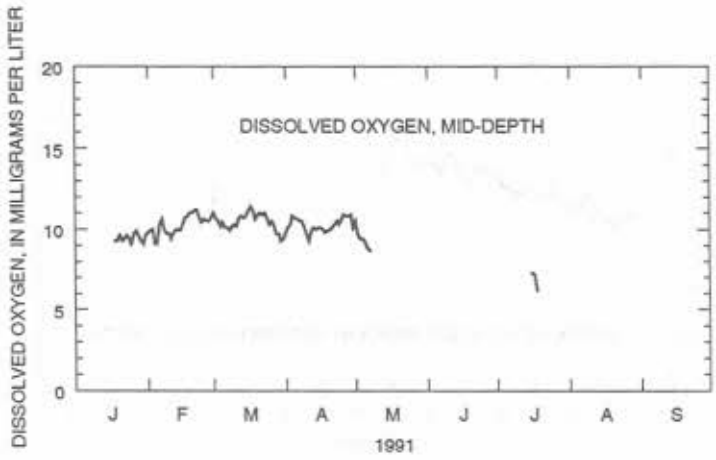
Dissolved Oxygen, Mid-Depth

Sensor Position.--6 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 11.7 mg/L February 22, March 17, 1991; minimum value recorded 5.1 mg/L July 18, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	9.8	11.0	9.8	10.5	---	---	---	---
2	---	9.9	10.7	10.1	9.7	---	---	---	---
3	---	10.0	10.5	10.3	9.4	---	---	---	---
4	---	9.1	10.2	10.8	9.4	---	---	---	---
5	---	9.1	10.4	10.7	9.3	---	---	---	---
6	---	10.3	10.1	10.6	8.9	---	---	---	---
7	---	10.6	10.1	10.5	8.7	---	---	---	---
8	---	10.0	9.9	10.5	---	---	---	---	---
9	---	9.7	10.2	10.1	---	---	---	---	---
10	---	9.7	10.3	9.7	---	---	---	---	---
11	---	9.4	10.2	9.3	---	---	---	---	---
12	---	9.8	10.7	9.9	---	---	---	---	---
13	---	10.0	10.8	10.1	---	---	---	---	---
14	---	9.9	10.7	10.0	---	---	---	---	---
15	---	10.0	10.8	10.1	---	---	---	---	---
16	---	10.3	11.1	10.1	---	---	7.3	---	---
17	---	10.7	11.4	10.0	---	---	7.2	---	---
18	9.3	10.8	11.1	9.8	---	---	6.2	---	---
19	9.3	11.0	10.6	9.9	---	---	---	---	---
20	9.6	11.0	10.9	10.0	---	---	---	---	---
21	9.3	11.2	11.0	10.1	---	---	---	---	---
22	9.4	11.2	10.9	10.3	---	---	---	---	---
23	9.6	10.7	11.0	10.5	---	---	---	---	---
24	9.4	10.4	10.6	10.3	---	---	---	---	---
25	9.0	10.6	10.3	10.6	---	---	---	---	---
26	9.7	10.5	10.5	10.9	---	---	---	---	---
27	9.9	10.5	10.3	10.8	---	---	---	---	---
28	9.6	10.7	9.7	10.8	---	---	---	---	---
29	9.3	---	9.7	10.9	---	---	---	---	---
30	9.1	---	9.3	10.1	---	---	---	---	---
31	9.6	---	9.4	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

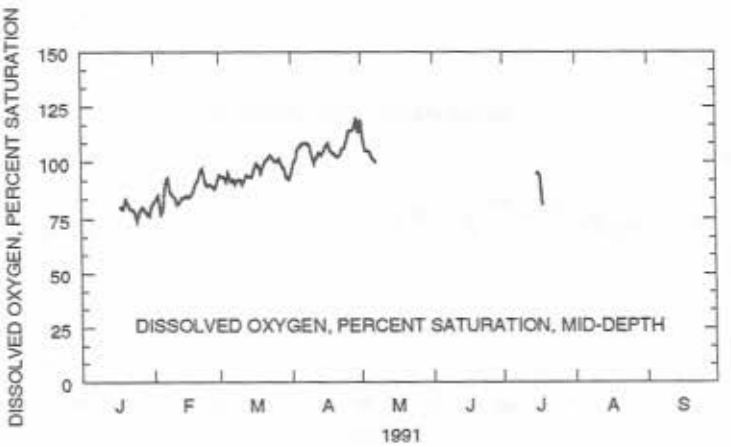
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--6 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 129 percent April 29, May 1, 1991; minimum value recorded, 66 percent July 18, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	82	94	95	119	---	---	---	---
2	---	83	93	99	110	---	---	---	---
3	---	85	93	101	105	---	---	---	---
4	---	77	91	106	105	---	---	---	---
5	---	78	95	107	104	---	---	---	---
6	---	90	91	108	101	---	---	---	---
7	---	93	92	108	100	---	---	---	---
8	---	87	90	108	---	---	---	---	---
9	---	85	92	107	---	---	---	---	---
10	---	84	92	103	---	---	---	---	---
11	---	81	90	99	---	---	---	---	---
12	---	82	92	102	---	---	---	---	---
13	---	84	94	104	---	---	---	---	---
14	---	84	93	103	---	---	---	---	---
15	---	85	93	105	---	---	---	---	---
16	---	84	96	107	---	---	95	---	---
17	---	85	99	108	---	---	94	---	---
18	80	87	98	105	---	---	81	---	---
19	79	90	95	104	---	---	---	---	---
20	83	92	98	103	---	---	---	---	---
21	81	96	100	102	---	---	---	---	---
22	79	97	101	103	---	---	---	---	---
23	79	91	103	106	---	---	---	---	---
24	77	89	101	106	---	---	---	---	---
25	74	90	100	110	---	---	---	---	---
26	78	89	100	114	---	---	---	---	---
27	80	88	101	114	---	---	---	---	---
28	79	90	98	115	---	---	---	---	---
29	77	---	97	120	---	---	---	---	---
30	76	---	93	113	---	---	---	---	---
31	80	---	92	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900; a, daily minimum value is less than 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

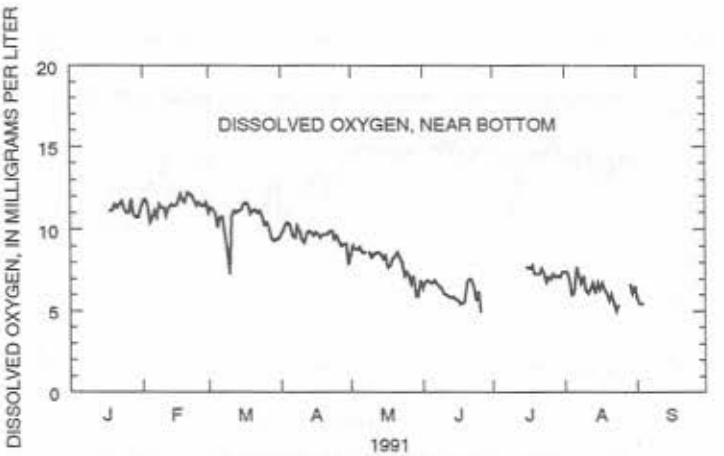
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 12.8 mg/L February 17, 1991; minimum value recorded, 2.6 mg/L August 5, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	11.7	11.0	9.7	8.5	6.4	---	7.4	5.8
2	---	11.8	11.3	9.9	9.0	6.8	---	7.4	5.4
3	---	11.5	11.2	10.3	8.8	6.9	---	6.9	5.4
4	---	10.4	10.9	10.4	8.8	6.8	---	6.0	---
5	---	10.6	10.1	10.3	8.9	6.7	---	6.1b	---
6	---	11.1	10.7	9.6	8.6	6.9	---	7.7	---
7	---	10.7	10.7	9.5	8.6	6.7	---	7.3	---
8	---	11.5	9.8	10.2	---	6.5	---	6.7b	---
9	---	11.3	8.7	9.9	8.6	6.4	---	7.2	---
10	---	11.3	7.3	9.4	8.3	6.1	---	6.3	---
11	---	10.8	10.7	9.2	8.5	6.0	---	6.1b	---
12	---	11.3	11.1	9.7	8.6	5.9	---	6.4	---
13	---	11.5	11.0	9.9	8.6	5.8	---	6.7	---
14	---	11.4	11.1	9.8	8.5	5.9	---	6.1	---
15	---	11.4	11.2	9.6	8.2	5.7	---	6.7	---
16	---	11.6	11.5	9.8	8.4	5.7	7.7	6.3b	---
17	---	12.1	11.6	9.7	7.7	5.4	7.6	6.7	---
18	11.1	11.7	11.4	9.5	7.8	5.4b	7.8	6.3	---
19	11.1	11.6	10.9	9.7	8.2	5.6b	7.3	6.1	---
20	11.5	12.2	11.1	9.7	8.4	6.8b	7.3	5.6	---
21	11.3	12.1	11.2	9.7	8.6	7.0	7.3	6.0	---
22	11.5	12.0	11.0	9.9	8.3	6.9b	7.6	5.5b	---
23	11.7	11.7	11.1	9.9	8.0	6.4	7.3	5.0b	---
24	11.2	11.4	10.7	9.4	7.2	5.6b	6.8	5.3b	---
25	11.0	11.6	10.3	9.6	7.4	6.2	7.1	---	---
26	11.0	11.4	10.4	9.3	7.2	5.0b	7.0	---	---
27	11.8	11.4	10.1	9.0	6.7	---	7.3	---	---
28	10.9	11.6	9.4	9.1	7.2	---	7.1	---	---
29	10.7	---	9.3	9.1	5.9	---	7.2	6.6	---
30	10.7	---	9.4	7.9	5.9b	---	7.1	6.1	---
31	11.2	---	9.4	---	6.9	---	7.4	6.5	---



DAILY MEAN DISSOLVED OXYGEN, PASQUOTANK RIVER AT LIGHT 1

Table 13.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 6, Pasquotank River at light 1, January-September 1991*--Continued

[Location of site 6 is latitude 36°09'06", longitude 76°01'18", Camden County; U.S. Geological Survey downstream order number 0204387900]

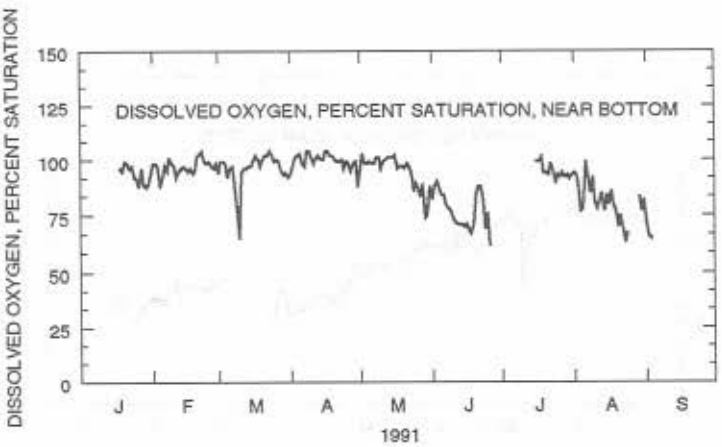
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 119 percent July 17, 1991; minimum value recorded, 34 percent August 5, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	98	94	94	96	82	---	94	73
2	---	98	99	97	103	88	---	93	66
3	---	97	99	101	98	90	---	87	65
4	---	88	98	102	98	88	---	77	---
5	---	91	92	103	99	84	---	78	---
6	---	97	96	98	98	84	---	99	---
7	---	95	97	97	98	80	---	93	---
8	---	101	89	104	---	78	---	85	---
9	---	98	78	104	101	77	---	92	---
10	---	97	65	101	96	74	---	81	---
11	---	92	94	98	99	72	---	78	---
12	---	95	96	101	100	71	---	82	---
13	---	96	96	102	101	71	---	85	---
14	---	97	97	100	101	71	---	77	---
15	---	96	97	100	101	70	---	84	---
16	---	95	99	104	102	71	99	80	---
17	---	96	102	104	96	68	99	86	---
18	96	94	100	102	97	67	101	80	---
19	95	95	97	102	97	71	94	77	---
20	99	102	100	100	96	85	94	70	---
21	98	103	102	99	98	88	93	75	---
22	96	104	102	99	97	88	98	69	---
23	97	99	104	100	94	81	95	63	---
24	92	98	102	96	86	69	89	67	---
25	91	99	99	99	89	76	93	---	---
26	88	97	100	98	87	62	92	---	---
27	96	96	99	95	83	---	94	---	---
28	89	98	95	98	89	---	92	---	---
29	88	---	93	99	74	---	93	83	---
30	89	---	94	88	75	---	91	77	---
31	93	---	92	---	88	---	93	82	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, PASQUOTANK RIVER AT LIGHT 1

Table 14.--*Five-day mean water temperature and dissolved-oxygen values in water at site 6, Pasquotank River at light 1, January 1990-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/30/90-01/03/91	---	---	---	---	---	---	---	---
01/04/91-01/08/91	---	---	---	---	---	---	---	---
01/09/91-01/13/91	---	---	---	---	---	---	---	---
01/14/91-01/18/91	9.1	8.8	11.3	11.1	9.7	9.2	11.3	11.0
01/19/91-01/23/91	8.2	7.9	11.7	11.6	9.5	9.4	11.5	11.5
01/24/91-01/28/91	6.6	6.4	11.9	11.7	9.6	9.4	11.4	10.9
01/29/91-02/02/91	7.4	7.3	12.1	12.1	9.7	9.6	11.3	11.3
02/03/91-02/07/91	8.8	8.8	12.0	11.9	9.9	9.9	10.7	11.0
02/08/91-02/12/91	8.8	8.3	11.8	11.6	9.8	9.6	11.3	11.2
02/13/91-02/17/91	7.3	7.0	12.0	12.0	10.2	10.2	11.6	11.6
02/18/91-02/22/91	7.6	7.6	12.9	12.6	11.2	11.0	12.0	11.8
02/23/91-02/27/91	8.2	7.9	12.0	11.8	10.6	10.4	11.6	11.4
02/28/91-03/04/91	9.4	9.4	11.9	11.6	10.7	10.5	11.2	11.0
03/05/91-03/09/91	11.0	10.6	11.2	10.8	10.3	10.0	9.9	9.6
03/10/91-03/14/91	9.5	9.2	11.3	11.0	10.6	10.5	10.3	10.8
03/15/91-03/19/91	9.5	9.4	11.6	11.3	11.1	10.9	11.4	11.2
03/20/91-03/24/91	12.2	12.1	11.3	10.9	11.0	10.7	11.1	10.8
03/25/91-03/29/91	14.7	14.7	10.6	10.3	10.2	9.9	10.0	9.6
03/30/91-04/03/91	14.6	14.1	10.7	10.4	10.0	9.7	9.9	9.7
04/04/91-04/08/91	16.2	15.8	11.5	10.8	10.8	10.3	10.0	9.9
04/09/91-04/13/91	17.7	17.2	10.5	10.1	10.0	9.7	9.8	9.5
04/14/91-04/18/91	18.1	17.8	10.5	10.1	10.1	9.8	9.7	9.6
04/19/91-04/23/91	16.4	15.9	9.9	9.8	10.2	10.2	9.8	9.8
04/24/91-04/28/91	17.7	17.4	10.3	10.0	10.9	10.5	9.3	9.2
04/29/91-05/03/91	21.1	20.6	9.7	9.3	10.2	9.8	8.7	8.6
05/04/91-05/08/91	21.7	21.6	8.8	8.6	9.1	8.9	8.8	8.6
05/09/91-05/13/91	23.1	22.7	8.3	8.1	---	---	8.5	8.4
05/14/91-05/18/91	25.6	25.2	8.5	8.1	---	---	8.1	8.1
05/19/91-05/23/91	22.8	22.2	9.1	8.8	---	---	8.4	8.1
05/24/91-05/28/91	25.5	25.2	8.8	8.2	---	---	7.0	7.2
05/29/91-06/02/91	28.3	27.8	8.4	7.9	---	---	6.3	6.5
06/03/91-06/07/91	26.8	25.9	8.1	7.6	---	---	6.9	6.6
06/08/91-06/12/91	24.8	24.4	---	---	---	---	6.1	6.1
06/13/91-06/17/91	26.0	25.7	---	---	---	---	5.7	5.6
06/18/91-06/22/91	27.3	27.0	---	---	---	---	6.5	6.4

Table 14.--*Five-day mean water temperature and dissolved-oxygen values in water at site 6, Pasquotank River at light 1, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/23/91-06/27/91	26.1	25.5	---	---	---	---	6.0	5.5
06/28/91-07/02/91	27.5	27.0	---	---	---	---	---	---
07/03/91-07/07/91	29.1	28.5	---	---	---	---	---	---
07/08/91-07/12/91	29.1	28.6	---	---	---	---	---	---
07/13/91-07/17/91	29.1	28.6	---	---	7.6	6.9	7.9	7.5
07/18/91-07/22/91	28.6	28.2	---	---	6.2	5.3	7.6	7.2
07/23/91-07/27/91	29.1	28.7	---	---	---	---	7.3	6.9
07/28/91-08/01/91	27.9	27.5	---	---	---	---	7.3	7.2
08/02/91-08/06/91	28.2	27.8	---	---	---	---	6.8	6.9
08/07/91-08/11/91	28.0	27.7	---	---	---	---	6.7	6.5
08/12/91-08/16/91	27.6	27.1	---	---	---	---	6.5	6.5
08/17/91-08/21/91	27.2	26.7	---	---	---	---	6.3	5.8
08/22/91-08/26/91	27.0	26.7	---	---	---	---	5.3	5.1
08/27/91-08/31/91	27.5	26.9	9.0	7.9	---	---	6.6	6.4
09/01/91-09/05/91	25.5	24.9	9.0	8.4	---	---	5.5	5.4
09/06/91-09/10/91	25.5	25.1	9.3	8.6	---	---	---	---
09/11/91-09/15/91	25.7	25.4	9.0	8.3	---	---	---	---
09/16/91-09/20/91	26.1	25.4	7.7	7.2	---	---	---	---
09/21/91-09/25/91	22.4	22.1	8.6	8.3	---	---	---	---
09/26/91-09/30/91	22.3	21.8	8.7	8.2	---	---	---	---

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

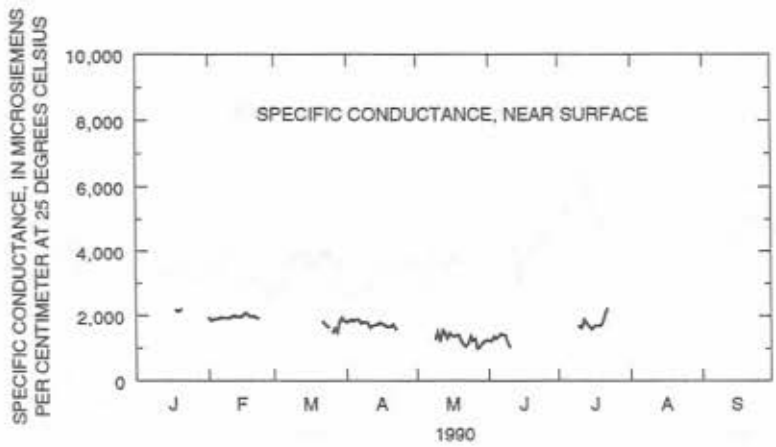
Specific Conductance, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 2,380 µS/cm July 22, 1990; minimum value recorded, 603 µS/cm May 21, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1,910	---	1,800	---	1,220	---	---	---
2	---	1,840	---	1,830	---	1,220	---	---	---
3	---	1,880	---	1,870	---	1,340	---	---	---
4	---	1,900	---	1,820	---	1,290	---	---	---
5	---	1,890	---	1,880	---	1,340	---	---	---
6	---	1,940	---	1,870	---	1,450	---	---	---
7	---	1,930	---	1,760	---	1,410	---	---	---
8	---	1,920	---	1,800	---	1,410	---	---	---
9	---	1,920	---	1,780	1,280	1,140	---	---	---
10	---	1,940	---	1,780	1,490	1,050	1,660	---	---
11	---	1,970	---	1,620	1,210	---	1,620	---	---
12	---	1,970	---	1,670	1,550	---	1,870	---	---
13	---	1,960	---	1,700	1,500	---	1,750	---	---
14	---	1,960	---	1,720	1,300	---	1,690	---	---
15	---	1,950	---	1,770	1,470	---	1,590	---	---
16	---	2,030	---	1,730	1,390	---	1,640	---	---
17	---	2,070	---	1,720	1,370	---	1,700	---	---
18	2,150	1,970	---	1,660	1,400	---	1,690	---	---
19	2,110	1,970	---	1,650	1,400	---	1,690	---	---
20	2,170	1,970	---	1,660	1,200	---	1,790	---	---
21	---	1,940	---	1,710	1,080	---	2,060	---	---
22	---	1,910	1,800	1,580	1,060	---	2,180	---	---
23	---	---	1,700	---	1,140	---	---	---	---
24	---	---	1,640	---	1,360	---	---	---	---
25	---	---	---	---	1,230	---	---	---	---
26	---	---	1,500	---	1,280	---	---	---	---
27	---	---	1,600	---	1,000	---	---	---	---
28	---	---	1,480	---	1,030	---	---	---	---
29	---	---	1,830	---	1,150	---	---	---	---
30	---	---	1,930	---	1,200	---	---	---	---
31	---	---	1,820	---	1,240	---	---	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

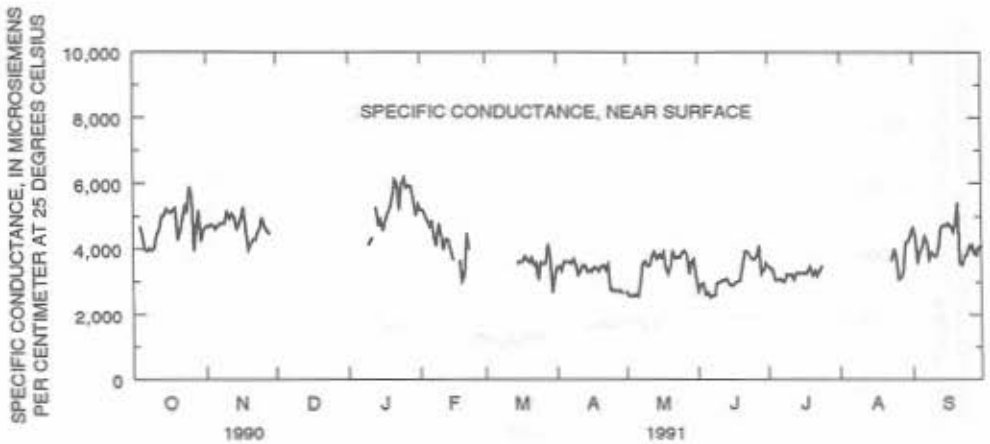
Specific Conductance, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 7,500 µS/cm October 18, 1990; minimum value recorded, 2,010 µS/cm May 2, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	4,700	---	---	5,190	---	3,450	2,680	2,720	3,440	---	4,670
2	---	4,690	---	---	5,180	---	3,460	2,570	2,920	3,400	---	4,310
3	---	4,730	---	---	5,050	---	3,340	2,580	2,960	3,340	---	3,590
4	4,640	4,710	---	---	4,850	---	3,610	2,570	2,630	3,050	---	3,920
5	4,450	4,600	---	---	4,700	---	3,620	2,630	2,690	3,050	---	4,040
6	3,950	4,700	---	---	4,880	---	3,630	2,570	2,530	3,080	---	4,360
7	3,910	4,760	---	---	4,290	---	3,560	2,870	2,590	3,010	---	4,200
8	4,000	4,770	---	---	4,100	---	3,670	3,540	2,590	2,990	---	3,700
9	3,940	4,780	---	---	4,780	---	3,520	3,620	2,950	3,230	---	3,870
10	4,030	5,120	---	4,150	4,420	---	3,230	3,480	2,970	3,200	---	3,800
11	4,410	4,930	---	4,310	3,980	---	3,310	3,510	3,030	3,230	---	3,780
12	4,560	5,070	---	---	4,280	---	3,500	3,800	3,060	3,070	---	4,090
13	4,990	4,970	---	5,250	4,260	---	3,480	3,890	3,080	3,250	---	4,660
14	5,010	4,630	---	4,720	4,000	---	3,300	3,700	2,930	3,270	---	4,730
15	5,200	4,710	---	4,880	3,680	3,590	3,350	3,820	2,880	3,240	---	4,710
16	5,150	4,980	---	4,560	---	3,610	3,300	3,740	2,900	3,270	---	4,780
17	5,110	5,270	---	4,840	---	3,610	3,440	3,900	2,970	3,250	---	4,700
18	5,180	4,610	---	5,100	3,630	3,750	3,420	3,440	3,010	3,330	---	4,540
19	5,240	3,980	---	5,260	3,030	3,680	3,320	3,250	3,040	3,450	---	4,760
20	4,260	4,080	---	5,610	3,180	3,600	3,460	3,480	3,500	3,200	---	5,400
21	4,570	4,260	---	6,080	4,460	3,720	3,510	3,930	3,910	3,320	---	3,600
22	4,910	4,270	---	5,970	4,010	3,500	3,370	3,710	3,920	3,190	---	3,520
23	5,290	4,470	---	5,220	---	3,570	3,520	3,760	3,790	3,320	3,670	3,790
24	5,110	4,640	---	5,980	---	3,070	2,790	3,740	3,700	3,440	3,990	3,820
25	5,880	4,950	---	6,140	---	3,590	2,720	3,870	3,680	---	3,780	4,100
26	5,570	4,700	---	5,860	---	3,540	2,730	3,930	3,770	---	3,100	4,130
27	3,940	4,540	---	5,920	---	3,560	2,720	3,830	4,080	---	3,160	3,850
28	4,700	4,490	---	5,900	---	4,130	2,730	3,240	3,250	---	3,280	3,820
29	5,170	---	---	5,560	---	3,760	2,680	3,600	3,350	---	4,220	4,060
30	4,230	---	---	5,030	---	2,670	---	3,680	3,560	---	4,240	4,080
31	4,600	---	---	5,350	---	3,120	---	3,220	---	---	4,420	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

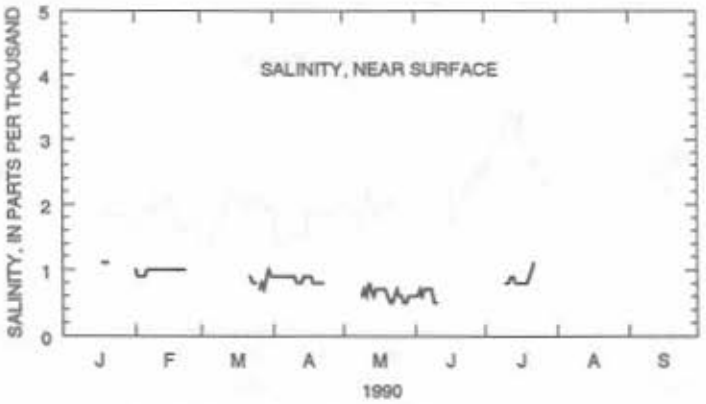
Salinity, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 1.2 ppt July 22, 1990; minimum value recorded, 0.3 ppt May 11, 21, 23, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1.0	---	0.9	---	0.6	---	---	---
2	---	.9	---	.9	---	.6	---	---	---
3	---	.9	---	.9	---	.7	---	---	---
4	---	.9	---	.9	---	.6	---	---	---
5	---	.9	---	.9	---	.7	---	---	---
6	---	1.0	---	.9	---	.7	---	---	---
7	---	1.0	---	.9	---	.7	---	---	---
8	---	1.0	---	.9	---	.7	---	---	---
9	---	1.0	---	.9	0.6	.5	---	---	---
10	---	1.0	---	.9	.7	.5	0.8	---	---
11	---	1.0	---	.8	.6	---	.8	---	---
12	---	1.0	---	.8	.8	---	.9	---	---
13	---	1.0	---	.8	.7	---	.9	---	---
14	---	1.0	---	.9	.6	---	.8	---	---
15	---	1.0	---	.9	.7	---	.8	---	---
16	---	1.0	---	.9	.7	---	.8	---	---
17	---	1.0	---	.9	.7	---	.8	---	---
18	1.1	1.0	---	.8	.7	---	.8	---	---
19	1.1	1.0	---	.8	.7	---	.8	---	---
20	1.1	1.0	---	.8	.6	---	.9	---	---
21	---	1.0	---	.8	.5	---	1.0	---	---
22	---	1.0	0.9	.8	.5	---	1.1	---	---
23	---	---	.8	---	.6	---	---	---	---
24	---	---	.8	---	.7	---	---	---	---
25	---	---	---	---	.6	---	---	---	---
26	---	---	.7	---	.6	---	---	---	---
27	---	---	.8	---	.5	---	---	---	---
28	---	---	.7	---	.5	---	---	---	---
29	---	---	.9	---	.6	---	---	---	---
30	---	---	1.0	---	.6	---	---	---	---
31	---	---	.9	---	.6	---	---	---	---



DAILY MEAN SALINITY, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

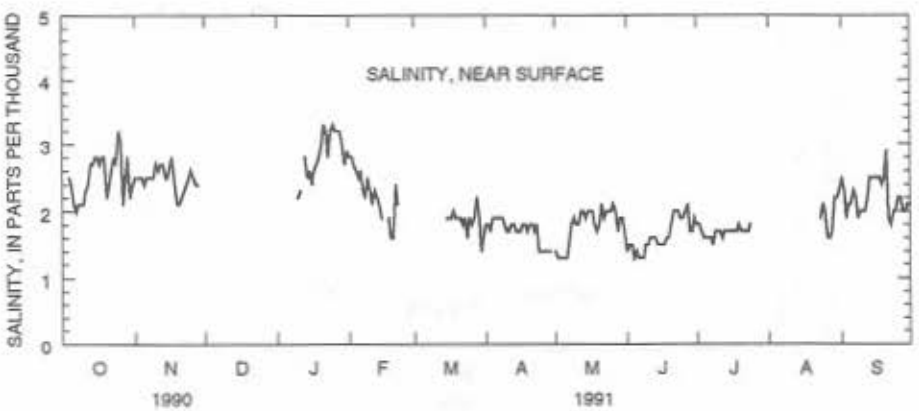
Salinity, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 4.1 ppt October 18, 25, 1990; minimum value recorded, 1.0 ppt May 2, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	2.5	---	---	2.8	---	1.8	1.4	1.4	1.8	---	2.5
2	---	2.5	---	---	2.8	---	1.8	1.3	1.5	1.8	---	2.3
3	---	2.5	---	---	2.7	---	1.7	1.3	1.5	1.7	---	1.9
4	2.5	2.5	---	---	2.6	---	1.9	1.3	1.3	1.6	---	2.1
5	2.4	2.4	---	---	2.5	---	1.9	1.3	1.4	1.6	---	2.1
6	2.1	2.5	---	---	2.6	---	1.9	1.3	1.3	1.6	---	2.3
7	2.0	2.5	---	---	2.3	---	1.9	1.5	1.3	1.6	---	2.2
8	2.1	2.5	---	---	2.2	---	1.9	1.8	1.3	1.5	---	1.9
9	2.1	2.5	---	---	2.5	---	1.8	1.9	1.5	1.7	---	2.0
10	2.1	2.7	---	2.2	2.3	---	1.7	1.8	1.5	1.7	---	2.0
11	2.3	2.6	---	2.3	2.1	---	1.7	1.8	1.6	1.7	---	2.0
12	2.4	2.7	---	---	2.3	---	1.8	2.0	1.6	1.6	---	2.2
13	2.7	2.7	---	2.8	2.2	---	1.8	2.0	1.6	1.7	---	2.5
14	2.7	2.5	---	2.5	2.1	---	1.7	1.9	1.5	1.7	---	2.5
15	2.8	2.5	---	2.6	1.9	1.9	1.7	2.0	1.5	1.7	---	2.5
16	2.8	2.7	---	2.4	---	1.9	1.7	2.0	1.5	1.7	---	2.5
17	2.7	2.8	---	2.6	---	1.9	1.8	2.0	1.5	1.7	---	2.5
18	2.8	2.4	---	2.7	1.9	2.0	1.8	1.8	1.6	1.7	---	2.4
19	2.8	2.1	---	2.8	1.6	1.9	1.7	1.7	1.6	1.8	---	2.5
20	2.2	2.1	---	3.0	1.6	1.9	1.8	1.8	1.8	1.7	---	2.9
21	2.4	2.2	---	3.3	2.4	1.9	1.8	2.1	2.0	1.7	---	1.9
22	2.6	2.3	---	3.2	2.1	1.8	1.7	1.9	2.0	1.7	---	1.8
23	2.8	2.4	---	2.8	---	1.9	1.8	2.0	2.0	1.7	1.9	2.0
24	2.7	2.5	---	3.2	---	1.6	1.4	2.0	1.9	1.8	2.1	2.0
25	3.2	2.6	---	3.3	---	1.9	1.4	2.0	1.9	---	2.0	2.2
26	3.0	2.5	---	3.2	---	1.8	1.4	2.1	2.0	---	1.6	2.2
27	2.1	2.4	---	3.2	---	1.9	1.4	2.0	2.1	---	1.6	2.0
28	2.5	2.4	---	3.2	---	2.2	1.4	1.7	1.7	---	1.7	2.0
29	2.8	---	---	3.0	---	2.0	1.4	1.9	1.7	---	2.2	2.1
30	2.2	---	---	2.7	---	1.4	---	1.9	1.9	---	2.2	2.1
31	2.4	---	---	2.9	---	1.6	---	1.7	---	---	2.3	---



DAILY MEAN SALINITY, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

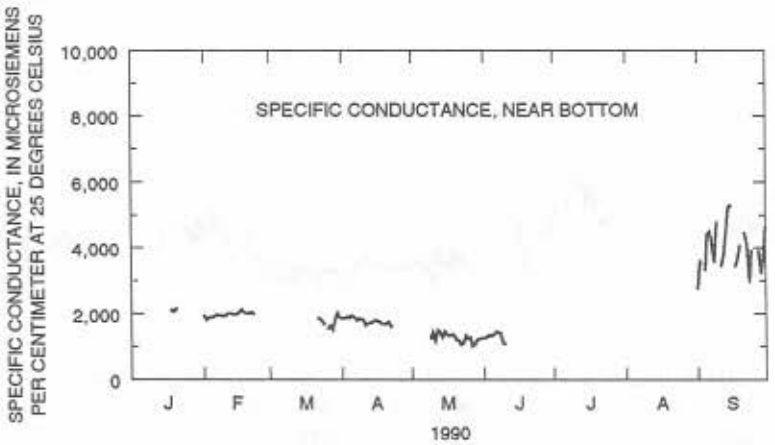
Specific Conductance, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 5,690 µS/cm September 14, 1990; minimum value recorded, 638 µS/cm May 21, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1,910	---	1,860	---	1,240	---	---	2,760
2	---	1,820	---	1,860	---	1,270	---	---	3,580
3	---	1,870	---	1,900	---	1,350	---	---	---
4	---	1,880	---	1,850	---	1,320	---	---	3,320
5	---	1,890	---	1,930	---	1,350	---	---	4,380
6	---	1,950	---	1,900	---	1,450	---	---	4,480
7	---	1,940	---	1,800	---	1,420	---	---	4,170
8	---	1,930	---	1,840	---	1,410	---	---	3,560
9	---	1,920	---	1,820	1,250	1,080	---	---	4,760
10	---	1,940	---	1,810	1,420	1,070	---	---	---
11	---	2,000	---	1,650	1,170	---	---	---	3,440
12	---	1,990	---	1,700	1,480	---	---	---	3,800
13	---	1,980	---	1,720	1,440	---	---	---	4,370
14	---	1,980	---	1,740	1,280	---	---	---	5,200
15	---	1,970	---	1,800	1,440	---	---	---	5,270
16	---	2,050	---	1,760	1,350	---	---	---	---
17	---	2,110	---	1,750	1,330	---	---	---	3,440
18	2,080	2,010	---	1,690	1,360	---	---	---	3,610
19	2,060	2,000	---	1,670	1,350	---	---	---	4,050
20	2,130	2,020	---	1,690	1,180	---	---	---	---
21	---	2,030	---	1,730	1,170	---	---	---	4,450
22	---	2,000	1,850	1,600	1,050	---	---	---	4,130
23	---	---	1,800	---	1,100	---	---	---	2,960
24	---	---	1,680	---	1,330	---	---	---	3,900
25	---	---	---	---	1,230	---	---	---	---
26	---	---	1,540	---	1,260	---	---	---	---
27	---	---	1,630	---	1,020	---	---	---	3,890
28	---	---	1,510	---	1,050	---	---	---	3,210
29	---	---	1,850	---	1,200	---	---	---	3,650
30	---	---	2,010	---	1,230	---	---	---	4,610
31	---	---	1,860	---	1,250	---	---	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

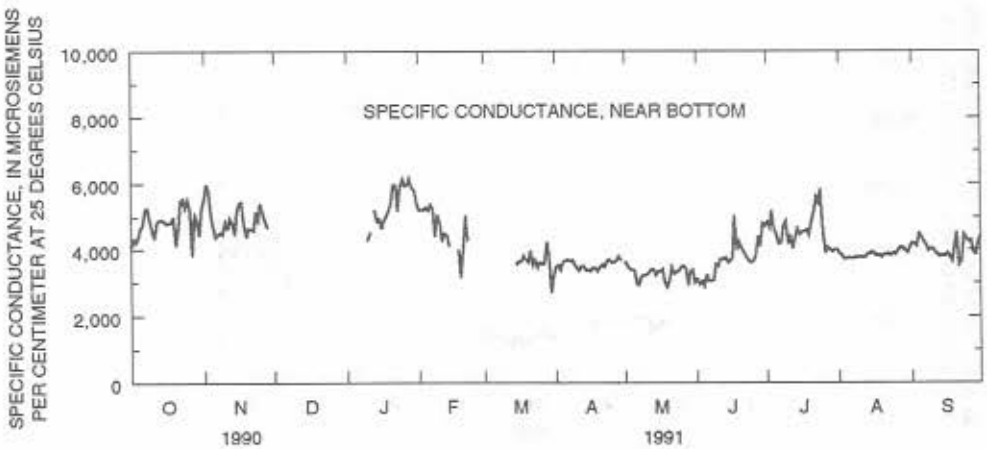
Specific Conductance, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 7,500 µS/cm June 17, 1991; minimum value recorded, 2,140 µS/cm April 11, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4,100	5,590	---	---	5,210	---	3,470	3,590	3,070	4,810	3,870	4,180
2	4,290	5,980	---	---	5,230	---	3,500	3,470	2,940	4,650	3,820	4,140
3	4,210	5,710	---	---	5,220	---	3,360	3,390	3,020	5,150	3,700	4,100
4	4,370	5,060	---	---	5,280	---	3,600	3,370	2,880	4,580	3,720	4,490
5	4,630	4,650	---	---	5,180	---	3,640	3,340	3,230	4,460	3,730	4,380
6	4,750	4,390	---	---	5,360	---	3,670	2,930	3,030	4,160	3,720	4,230
7	5,250	4,470	---	---	5,240	---	3,620	2,910	3,030	4,190	3,720	4,100
8	5,270	4,520	---	---	4,410	---	3,660	3,170	3,060	4,690	3,750	3,960
9	4,880	4,470	---	---	5,050	---	3,530	3,220	3,520	4,860	3,730	4,010
10	4,530	4,830	---	4,290	4,820	---	3,430	3,220	3,480	4,160	3,770	4,010
11	4,340	4,630	---	4,510	4,250	---	3,340	3,260	3,700	4,420	3,740	3,890
12	4,850	4,960	---	---	4,480	---	3,490	3,390	3,670	4,020	3,740	3,810
13	4,920	4,800	---	5,190	4,420	---	3,460	3,380	3,730	4,260	3,860	3,770
14	4,910	4,460	---	4,880	4,120	---	3,340	3,210	3,580	4,630	3,850	3,810
15	4,870	5,170	---	4,940	---	3,560	3,360	3,330	3,620	4,440	3,910	3,790
16	4,790	5,420	---	4,640	---	3,610	3,330	3,310	3,740	4,530	3,850	3,870
17	4,810	5,440	---	4,870	---	3,620	3,450	3,380	5,010	4,550	3,800	3,770
18	4,810	4,760	---	5,020	3,950	3,790	3,420	3,010	3,970	4,590	3,820	3,640
19	5,000	4,390	---	5,190	3,160	3,690	3,320	2,850	4,210	4,430	3,760	4,050
20	4,120	4,640	---	5,470	4,020	3,600	3,460	3,050	4,010	4,860	3,840	4,520
21	4,680	4,620	---	5,950	5,030	3,960	3,530	3,440	3,880	5,160	3,840	3,530
22	5,490	4,590	---	5,930	4,280	3,520	3,460	3,250	3,780	5,550	3,860	3,610
23	5,540	5,070	---	5,180	---	3,670	3,620	3,310	3,650	5,410	3,820	4,450
24	5,260	4,890	---	5,910	---	3,450	3,670	3,330	3,590	5,790	3,870	4,340
25	5,510	5,400	---	6,110	---	3,590	3,590	3,460	3,620	4,510	3,830	4,230
26	5,190	5,110	---	5,910	---	3,540	3,600	3,490	3,770	3,880	3,950	4,270
27	3,820	4,850	---	5,950	---	3,550	3,610	3,420	4,390	4,030	4,050	3,890
28	5,040	4,700	---	6,130	---	4,200	3,770	2,910	4,070	4,000	4,030	3,860
29	4,910	---	---	5,850	---	3,830	3,670	3,310	4,770	3,920	3,960	4,170
30	4,420	---	---	5,800	---	2,700	---	3,360	4,700	3,970	3,890	4,390
31	5,280	---	---	5,390	---	3,130	---	2,990	---	3,970	4,030	---



DAILY MEAN SPECIFIC CONDUCTANCE, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

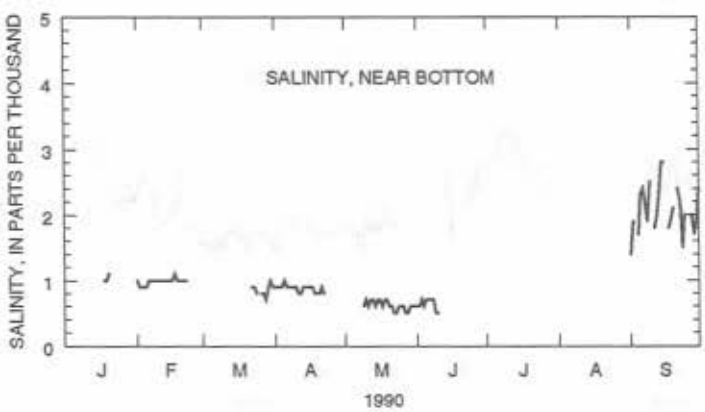
Salinity, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 3.1 ppt September 14, 1990; minimum value recorded, 0.3 ppt May 10, 11, 21, 23, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1.0	---	0.9	---	0.6	---	---	1.4
2	---	.9	---	.9	---	.6	---	---	1.9
3	---	.9	---	.9	---	.7	---	---	---
4	---	.9	---	.9	---	.6	---	---	1.7
5	---	.9	---	1.0	---	.7	---	---	2.3
6	---	1.0	---	.9	---	.7	---	---	2.4
7	---	1.0	---	.9	---	.7	---	---	2.2
8	---	1.0	---	.9	---	.7	---	---	1.9
9	---	1.0	---	.9	0.6	.5	---	---	2.5
10	---	1.0	---	.9	.7	.5	---	---	---
11	---	1.0	---	.8	.6	---	---	---	1.8
12	---	1.0	---	.8	.7	---	---	---	2.0
13	---	1.0	---	.9	.7	---	---	---	2.3
14	---	1.0	---	.9	.6	---	---	---	2.8
15	---	1.0	---	.9	.7	---	---	---	2.8
16	---	1.0	---	.9	.7	---	---	---	---
17	---	1.1	---	.9	.6	---	---	---	1.8
18	1.0	1.0	---	.8	.7	---	---	---	1.9
19	1.0	1.0	---	.8	.7	---	---	---	2.1
20	1.1	1.0	---	.8	.6	---	---	---	---
21	---	1.0	---	.9	.6	---	---	---	2.4
22	---	1.0	0.9	.8	.5	---	---	---	2.2
23	---	---	.9	---	.5	---	---	---	1.5
24	---	---	.8	---	.6	---	---	---	2.0
25	---	---	---	---	.6	---	---	---	---
26	---	---	.8	---	.6	---	---	---	---
27	---	---	.8	---	.5	---	---	---	2.0
28	---	---	.7	---	.5	---	---	---	1.7
29	---	---	.9	---	.6	---	---	---	1.9
30	---	---	1.0	---	.6	---	---	---	2.4
31	---	---	.9	---	.6	---	---	---	---



DAILY MEAN SALINITY, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

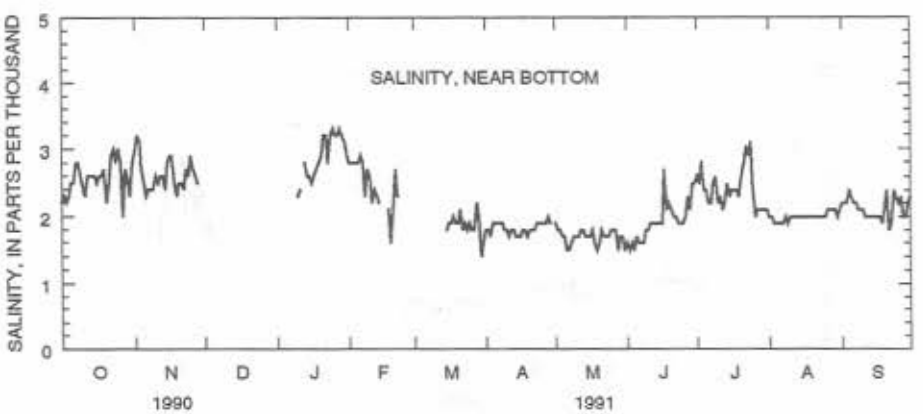
Salinity, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 4.1 ppt June 17, 1991; minimum value recorded, 1.1 ppt April 11, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	3.0	---	---	2.8	---	1.8	1.9	1.6	2.6	2.0	2.2
2	2.3	3.2	---	---	2.8	---	1.8	1.8	1.5	2.5	2.0	2.2
3	2.2	3.1	---	---	2.8	---	1.7	1.8	1.6	2.8	1.9	2.2
4	2.3	2.7	---	---	2.8	---	1.9	1.7	1.5	2.4	1.9	2.4
5	2.5	2.5	---	---	2.8	---	1.9	1.7	1.7	2.4	1.9	2.3
6	2.5	2.3	---	---	2.9	---	1.9	1.5	1.6	2.2	1.9	2.2
7	2.8	2.4	---	---	2.8	---	1.9	1.5	1.6	2.2	1.9	2.2
8	2.8	2.4	---	---	2.3	---	1.9	1.6	1.6	2.5	2.0	2.1
9	2.6	2.4	---	---	2.7	---	1.8	1.7	1.8	2.6	1.9	2.1
10	2.4	2.6	---	2.3	2.6	---	1.8	1.7	1.8	2.2	2.0	2.1
11	2.3	2.5	---	2.4	2.2	---	1.7	1.7	1.9	2.3	2.0	2.0
12	2.6	2.6	---	---	2.4	---	1.8	1.8	1.9	2.1	2.0	2.0
13	2.6	2.6	---	2.8	2.3	---	1.8	1.8	1.9	2.2	2.0	2.0
14	2.6	2.4	---	2.6	2.2	---	1.7	1.7	1.9	2.5	2.0	2.0
15	2.6	2.8	---	2.6	---	1.8	1.7	1.7	1.9	2.3	2.0	2.0
16	2.5	2.9	---	2.5	---	1.9	1.7	1.7	1.9	2.4	2.0	2.0
17	2.6	2.9	---	2.6	---	1.9	1.8	1.8	2.7	2.4	2.0	2.0
18	2.6	2.5	---	2.7	2.1	2.0	1.8	1.6	2.1	2.4	2.0	1.9
19	2.7	2.3	---	2.8	1.6	1.9	1.7	1.5	2.2	2.3	2.0	2.1
20	2.2	2.5	---	2.9	2.1	1.9	1.8	1.6	2.1	2.6	2.0	2.4
21	2.5	2.5	---	3.2	2.7	2.1	1.8	1.8	2.0	2.8	2.0	1.8
22	2.9	2.4	---	3.2	2.3	1.8	1.8	1.7	2.0	3.0	2.0	1.9
23	3.0	2.7	---	2.8	---	1.9	1.9	1.7	1.9	2.9	2.0	2.4
24	2.8	2.6	---	3.2	---	1.8	1.9	1.7	1.9	3.1	2.0	2.3
25	3.0	2.9	---	3.3	---	1.9	1.9	1.8	1.9	2.4	2.0	2.2
26	2.8	2.7	---	3.2	---	1.8	1.9	1.8	2.0	2.0	2.1	2.3
27	2.0	2.6	---	3.2	---	1.8	1.9	1.8	2.3	2.1	2.1	2.0
28	2.7	2.5	---	3.3	---	2.2	2.0	1.5	2.1	2.1	2.1	2.0
29	2.6	---	---	3.2	---	2.0	1.9	1.7	2.5	2.1	2.1	2.2
30	2.3	---	---	3.1	---	1.4	---	1.7	2.5	2.1	2.0	2.3
31	2.8	---	---	2.9	---	1.6	---	1.5	---	2.1	2.1	---



DAILY MEAN SALINITY, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

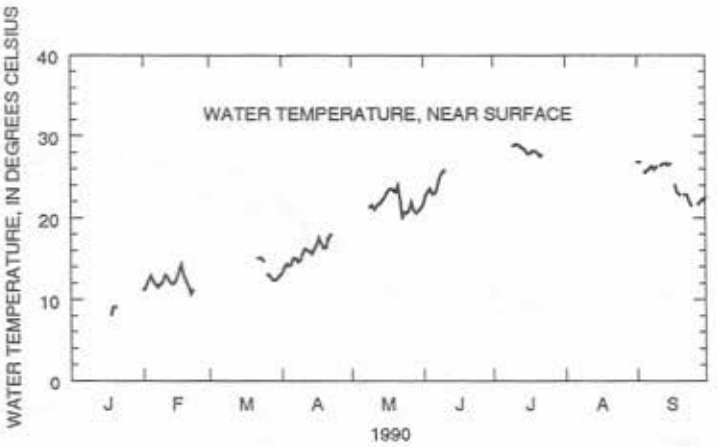
Water Temperature, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 30.1 °C July 10, 1990; minimum value recorded, 7.5 °C January 18, 1990.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	11.3	---	13.2	---	21.8	---	---	26.9
2	---	11.5	---	13.8	---	22.7	---	---	26.9
3	---	12.4	---	14.3	---	23.3	---	---	---
4	---	12.9	---	14.1	---	23.6	---	---	25.6
5	---	12.3	---	14.2	---	23.0	---	---	25.8
6	---	11.8	---	15.0	---	23.1	---	---	26.0
7	---	11.5	---	15.0	---	23.6	---	---	26.3
8	---	11.8	---	14.6	---	24.9	---	---	25.9
9	---	12.1	---	14.8	21.4	25.5	---	---	26.2
10	---	13.0	---	15.6	21.5	25.8	28.8	---	---
11	---	12.8	---	16.2	21.1	---	29.0	---	26.5
12	---	12.1	---	16.0	21.5	---	28.9	---	26.6
13	---	11.9	---	15.9	21.7	---	28.6	---	26.7
14	---	12.0	---	15.6	22.0	---	28.5	---	26.5
15	---	12.6	---	16.2	22.5	---	28.2	---	26.6
16	---	13.4	---	16.7	22.9	---	27.8	---	---
17	---	14.2	---	17.5	23.4	---	27.9	---	24.0
18	8.1	12.9	---	17.0	23.6	---	28.2	---	23.1
19	9.1	12.4	---	16.3	23.4	---	28.2	---	22.9
20	9.1	11.7	---	16.4	23.2	---	28.0	---	---
21	---	10.7	---	17.4	24.0	---	27.6	---	22.9
22	---	11.1	15.0	17.9	22.4	---	27.7	---	22.9
23	---	---	15.1	---	20.1	---	---	---	22.0
24	---	---	14.7	---	20.7	---	---	---	21.5
25	---	---	---	---	20.6	---	---	---	---
26	---	---	13.1	---	21.1	---	---	---	---
27	---	---	12.9	---	21.9	---	---	---	21.7
28	---	---	12.4	---	20.8	---	---	---	22.1
29	---	---	12.4	---	20.6	---	---	---	22.3
30	---	---	12.5	---	20.9	---	---	---	22.5
31	---	---	12.9	---	21.2	---	---	---	---



DAILY MEAN WATER TEMPERATURE, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

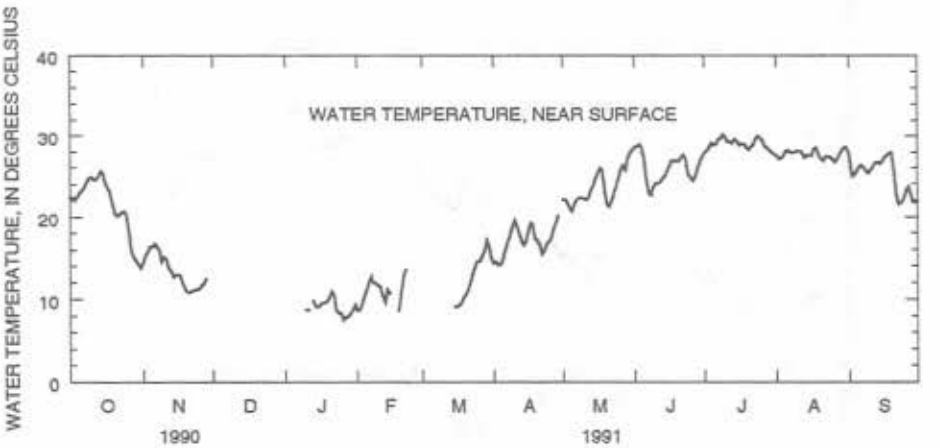
Water Temperature, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 31.3 °C July 6, 1991; minimum value recorded, 6.3 °C January 27, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22.4	14.5	---	---	8.6	---	14.3	22.1	28.6	27.9	27.5	27.6
2	22.4	15.3	---	---	8.7	---	14.5	22.1	28.7	28.1	27.1	24.9
3	22.3	15.8	---	---	9.3	---	14.1	21.6	28.9	28.5	27.2	25.0
4	22.5	16.4	---	---	10.3	---	14.2	20.9	28.5	29.1	27.5	25.5
5	22.9	16.4	---	---	11.1	---	14.7	20.7	27.0	28.8	28.1	26.0
6	23.2	16.7	---	---	12.0	---	15.9	21.6	24.6	28.9	28.2	26.3
7	23.6	16.4	---	---	12.7	---	16.9	22.1	22.9	29.5	27.9	26.1
8	24.1	15.9	---	---	12.0	---	17.8	22.3	22.6	29.6	27.9	25.6
9	24.7	14.6	---	---	11.9	---	18.7	22.3	23.5	30.2	28.0	25.3
10	24.8	15.1	---	8.7	11.6	---	19.5	22.2	24.0	29.7	28.1	25.6
11	24.5	14.7	---	8.7	11.5	---	18.9	22.1	24.0	29.2	28.1	26.1
12	24.5	13.8	---	---	10.3	---	17.9	22.3	24.1	29.2	27.8	26.6
13	24.9	13.4	---	9.8	9.6	---	16.9	23.1	24.7	29.1	27.3	26.7
14	25.5	12.7	---	9.1	11.1	---	16.5	23.7	25.0	29.5	27.6	26.5
15	25.2	12.9	---	9.1	10.7	9.1	17.0	24.7	25.6	29.3	27.5	26.9
16	24.2	12.9	---	9.2	---	9.1	18.2	25.2	26.2	28.8	27.5	27.3
17	23.4	12.8	---	9.5	---	9.3	19.2	25.9	26.9	29.0	28.4	27.6
18	23.1	11.9	---	9.5	---	9.5	19.0	25.8	26.8	29.0	28.5	27.9
19	21.7	11.2	---	9.8	8.6	10.2	17.3	23.2	26.9	28.5	27.5	28.0
20	20.4	10.8	---	10.3	10.9	10.6	17.0	21.4	26.8	28.3	27.1	25.5
21	20.1	10.8	---	10.9	12.9	11.2	16.4	21.2	27.3	28.7	26.9	22.8
22	20.4	11.0	---	10.4	13.5	12.1	15.4	21.9	27.6	28.9	27.4	21.5
23	20.6	11.0	---	8.7	---	13.0	15.9	23.0	27.0	29.6	27.4	21.7
24	20.7	11.2	---	8.3	---	14.0	16.7	23.6	25.3	29.9	27.3	22.1
25	20.2	11.2	---	8.3	---	14.6	16.9	24.7	24.7	29.7	27.0	23.0
26	18.0	11.6	---	7.5	---	14.6	17.5	25.6	24.3	29.3	26.7	23.5
27	16.0	11.9	---	7.8	---	15.2	18.6	26.2	24.9	28.7	27.2	22.9
28	15.0	12.4	---	7.9	---	15.9	19.3	25.7	25.8	28.5	27.7	21.8
29	14.7	---	---	8.2	---	17.1	20.1	27.0	26.7	28.2	28.3	21.8
30	14.2	---	---	8.7	---	16.3	---	27.9	27.2	27.9	28.6	21.9
31	13.8	---	---	9.3	---	14.9	---	28.1	---	27.7	28.5	---



DAILY MEAN WATER TEMPERATURE, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

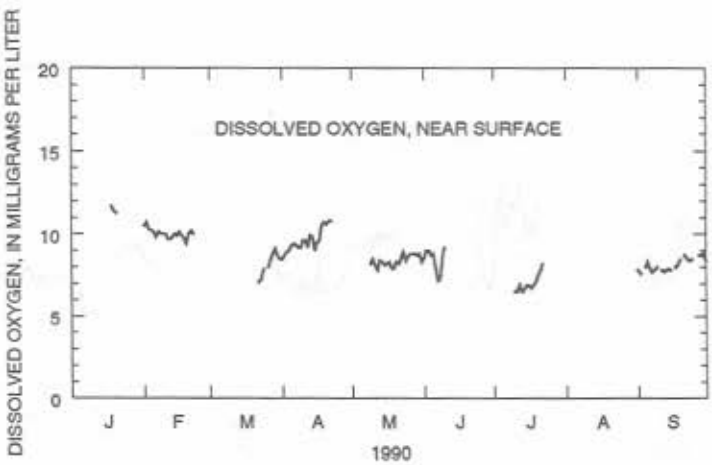
Dissolved Oxygen, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 11.7 mg/L January 18, June 10, 1990; minimum value recorded, 3.3 mg/L July 17, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.5	---	8.5	---	8.6	---	---	7.8
2	---	10.7	---	8.7	---	9.0	---	---	7.6
3	---	10.3	---	8.9	---	9.0	---	---	---
4	---	10.2	---	9.0	---	8.7	---	---	8.0
5	---	10.1	---	9.3	---	8.8	---	---	8.3
6	---	9.8	---	9.4	---	7.9	---	---	7.9
7	---	10.1	---	9.3	---	7.2	---	---	7.7
8	---	10.0	---	9.2	---	7.3	---	---	7.8
9	---	10.0	---	9.2	8.2	8.8	---	---	8.0
10	---	10.0	---	9.6	8.5	9.2	6.5	---	---
11	---	9.7	---	9.6	8.1	---	6.5	---	7.8
12	---	9.7	---	9.2	7.8	---	6.9	---	7.7
13	---	9.8	---	9.9	8.4	---	6.5	---	7.8
14	---	10.0	---	9.8	8.3	---	6.6	---	7.9
15	---	9.9	---	9.0	8.1	---	6.9	---	7.8
16	---	10.1	---	9.5	8.2	---	6.9	---	---
17	---	9.9	---	9.6	8.3	---	6.7b	---	8.0
18	11.7	9.7	---	10.5	7.9	---	6.9b	---	8.1
19	11.4	9.4	---	10.7	7.9	---	7.1b	---	8.5
20	11.3	10.0	---	10.6	8.3	---	7.5	---	---
21	---	10.2	---	10.8	8.2	---	7.8	---	8.7
22	---	10.0	7.1	10.8	8.5	---	8.2	---	8.5
23	---	---	7.3	---	8.9	---	---	---	8.4
24	---	---	7.9	---	8.4	---	---	---	8.5
25	---	---	---	---	8.6	---	---	---	---
26	---	---	8.0	---	8.8	---	---	---	---
27	---	---	8.4	---	8.8	---	---	---	8.7
28	---	---	8.8	---	8.8	---	---	---	8.7
29	---	---	9.1	---	8.7	---	---	---	8.8
30	---	---	8.7	---	8.8	---	---	---	8.4
31	---	---	8.5	---	8.3	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

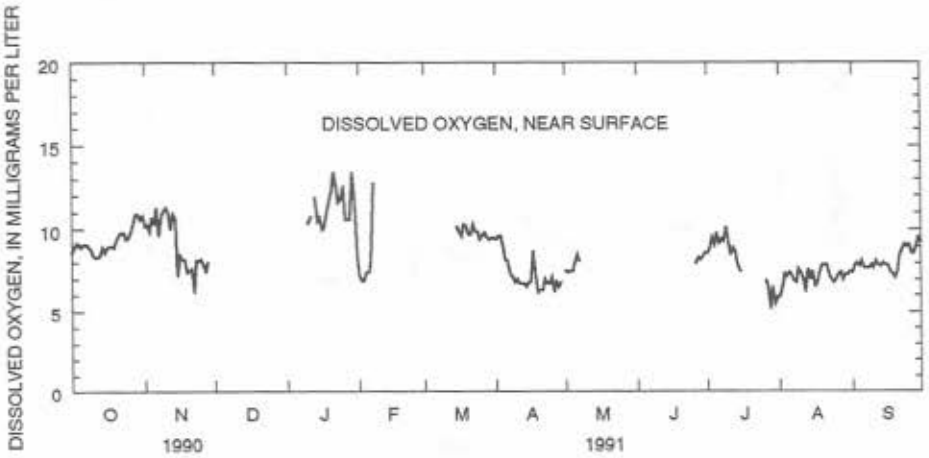
Dissolved Oxygen, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 17.0 mg/L January 29, 1991; minimum value recorded, <1.0 mg/L July 30, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	10.2	---	---	7.2	---	9.4	7.5	---	8.6	5.9b	7.4
2	8.9	10.3	---	---	6.9	---	9.6	7.4	---	8.9	6.4b	7.9
3	9.2	9.9	---	---	6.9	---	9.6	7.5	---	9.5	7.3	8.0
4	9.1	10.6	---	---	7.4	---	9.0	7.5	---	9.1b	7.2	7.8
5	8.9	10.4	---	---	7.4	---	8.2	8.0	---	9.8	7.4	8.1
6	9.1	11.3	---	---	8.1	---	8.1	8.5	---	9.2	7.3	7.7
7	9.1	9.6b	---	---	12.7	---	7.3	8.1	---	9.4	6.9	7.7
8	9.0	10.8b	---	---	---	---	7.1	---	---	9.3	6.8b	7.7
9	8.8	11.1	---	---	---	---	6.8	---	---	10.1	7.6	7.9
10	8.4	11.3	---	10.4	---	---	7.0	---	---	9.2	7.4	7.7
11	8.3	10.9	---	10.7	---	---	6.7	---	---	8.5	7.0	8.1
12	8.3	10.0b	---	---	---	---	6.7	---	---	8.9	6.2b	7.9
13	8.5	10.9	---	11.9	---	---	6.7	---	---	8.7	7.6	7.8
14	8.9	10.6b	---	10.5	---	---	6.5	---	---	7.9	7.0b	8.0
15	8.6	7.2b	---	10.7	---	10.1	6.8	---	---	7.5	7.5	7.9
16	8.9	8.4	---	10.0	---	9.9	6.8	---	---	---	6.6b	7.9
17	9.0	8.2	---	10.1	---	9.6	8.7	---	---	---	6.7b	7.5
18	9.0	8.2	---	11.0	---	10.3	7.5	---	---	---	7.4	7.3
19	8.9	7.4b	---	11.7	---	10.2	6.2	---	---	---	7.9	7.1
20	9.4	7.5	---	12.4	---	9.7	6.3	---	---	---	7.9	7.4
21	9.7	7.6	---	13.4	---	9.7	6.3	---	---	---	7.9	8.4
22	9.8	6.2b	---	12.6	---	10.3	7.0	---	---	---	7.3	8.8
23	9.8	8.1	---	11.6	---	9.9	6.7b	---	---	---	7.0	9.1
24	9.4	8.1	---	11.8	---	9.9	6.7b	---	---	---	6.8	9.0
25	9.5	8.2	---	12.6	---	9.4	7.1	---	---	---	7.0	9.1
26	9.9	7.9	---	10.6	---	9.6	6.2b	---	8.0	6.9	7.3	8.6
27	10.3	7.4b	---	10.6	---	9.8	6.8	---	8.3	6.5b	7.4	8.6
28	10.9	8.0	---	10.6	---	9.5	6.5b	---	8.2	5.2b	7.0	9.0
29	10.9	---	---	13.4	---	9.4	6.8b	---	8.4	6.5	7.3	9.5
30	10.6	---	---	11.6	---	9.5	---	---	8.6	5.5a	7.3	9.3
31	10.8	---	---	8.4	---	9.5	---	---	---	5.9b	7.5	---



DAILY MEAN DISSOLVED OXYGEN, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

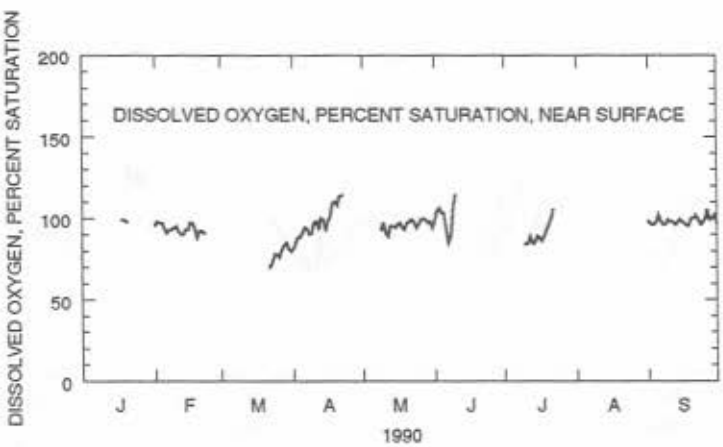
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 145 percent June 10, 1990; minimum value recorded, 42 percent July 17, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	96	---	81	---	99	---	---	98
2	---	98	---	84	---	104	---	---	96
3	---	97	---	88	---	106	---	---	---
4	---	97	---	88	---	103	---	---	98
5	---	94	---	91	---	103	---	---	102
6	---	91	---	94	---	92	---	---	98
7	---	93	---	93	---	85	---	---	96
8	---	93	---	90	---	89	---	---	96
9	---	94	---	91	93	108	---	---	99
10	---	95	---	97	97	114	84	---	---
11	---	92	---	98	91	---	84	---	98
12	---	90	---	93	89	---	89	---	96
13	---	90	---	100	95	---	84	---	97
14	---	93	---	99	95	---	85	---	99
15	---	93	---	92	94	---	89	---	98
16	---	97	---	98	96	---	88	---	---
17	---	97	---	101	97	---	86	---	95
18	99	93	---	109	94	---	89	---	95
19	99	88	---	110	93	---	92	---	100
20	98	92	---	108	97	---	96	---	---
21	---	92	---	113	98	---	100	---	102
22	---	91	70	114	99	---	105	---	99
23	---	---	73	---	98	---	---	---	96
24	---	---	78	---	94	---	---	---	97
25	---	---	---	---	96	---	---	---	---
26	---	---	76	---	99	---	---	---	---
27	---	---	80	---	100	---	---	---	99
28	---	---	83	---	99	---	---	---	100
29	---	---	85	---	97	---	---	---	102
30	---	---	82	---	98	---	---	---	97
31	---	---	80	---	94	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

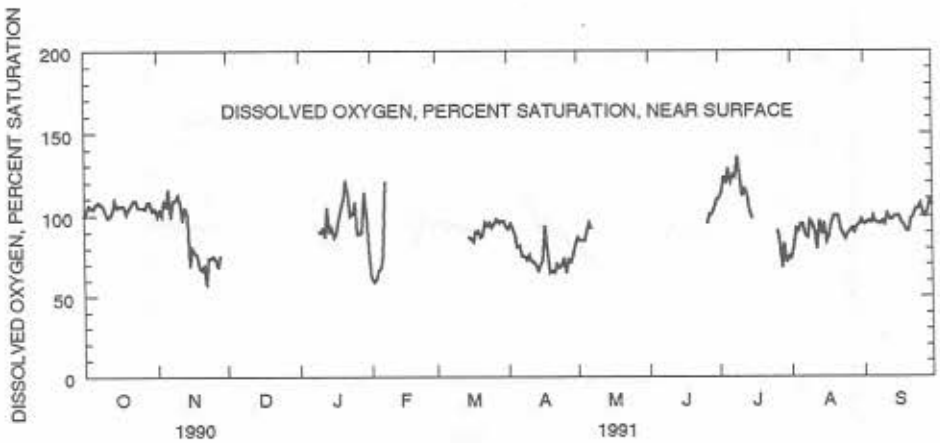
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 160 percent July 8, 1991; minimum value recorded, <10 percent July 30, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	100	---	---	62	---	92	87	---	110	74	95
2	103	103	---	---	59	---	95	85	---	114	81	96
3	106	100	---	---	60	---	93	85	---	123	92	97
4	105	108	---	---	66	---	88	85	---	119	91	96
5	104	106	---	---	68	---	81	90	---	128	95	100
6	107	116	---	---	76	---	82	96	---	120	95	96
7	108	99	---	---	120	---	75	93	---	124	88	96
8	107	109	---	---	---	---	75	---	---	123	87	95
9	106	109	---	---	---	---	73	---	---	135	97	97
10	102	112	---	90	---	---	76	---	---	122	95	95
11	99	107	---	92	---	---	72	---	---	111	90	101
12	100	97	---	87	---	---	71	---	---	116	80	98
13	103	105	---	105	---	---	69	---	---	114	97	98
14	109	100	---	91	---	---	66	---	---	104	89	100
15	105	69	---	93	---	87	70	---	---	99	96	100
16	106	80	---	87	---	86	73	---	---	---	84	100
17	106	78	---	89	---	84	94	---	---	---	87	96
18	106	76	---	97	---	90	81	---	---	---	95	94
19	101	68	---	104	---	91	65	---	---	---	100	91
20	104	67	---	110	---	87	66	---	---	---	100	91
21	107	69	---	121	---	88	65	---	---	---	100	98
22	109	57	---	113	---	96	70	---	---	---	92	100
23	109	74	---	100	---	94	68	---	---	---	89	104
24	105	74	---	101	---	96	69	---	---	---	86	104
25	105	75	---	108	---	93	74	---	---	---	89	107
26	105	73	---	89	---	95	65	---	96	91	91	102
27	104	68	---	89	---	98	73	---	101	85	93	100
28	108	75	---	90	---	96	71	---	101	68	90	103
29	108	---	---	114	---	97	75	---	105	83	94	109
30	103	---	---	100	---	97	---	---	109	71	95	107
31	104	---	---	74	---	94	---	---	---	75	98	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

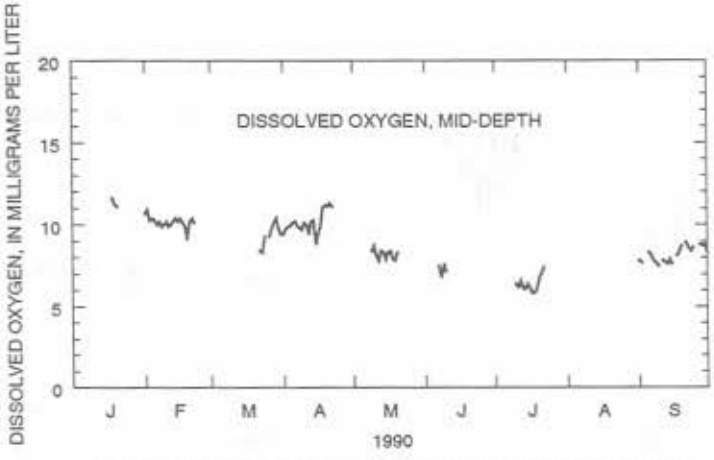
Dissolved Oxygen, Mid-Depth

Sensor Position.--7 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 11.9 mg/L April 22, 1990; minimum value recorded, 2.2 mg/L July 17, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.7	---	9.4	---	---	---	---	7.8
2	---	10.9	---	9.7	---	---	---	---	7.7
3	---	10.3	---	9.9	---	---	---	---	---
4	---	10.4	---	9.9	---	---	---	---	---
5	---	10.3	---	10.1	---	---	---	---	8.3
6	---	10.0	---	10.2	---	---	---	---	8.1
7	---	10.2	---	9.9	---	7.5b	---	---	7.8
8	---	9.9	---	9.8	---	6.8	---	---	7.7
9	---	10.0	---	9.7	8.4	7.6	---	---	7.5
10	---	10.2	---	10.1	8.7	7.2	6.4	---	---
11	---	9.9	---	10.0	8.1	---	6.2	---	7.8
12	---	10.0	---	9.4	7.8	---	6.6	---	7.7
13	---	10.3	---	10.2	8.4	---	6.1	---	7.6
14	---	10.4	---	10.3	8.3	---	6.1	---	7.9
15	---	10.2	---	8.8	7.9	---	6.4	---	7.6
16	---	10.4	---	9.4	8.3	---	6.2	---	---
17	---	10.1	---	9.9	8.4	---	5.8b	---	8.1
18	11.6	9.9	---	11.0	7.9	---	5.9b	---	8.3
19	11.3	9.1	---	11.2	7.8	---	6.1b	---	8.7
20	11.1	10.2	---	11.1	8.3	---	6.8	---	---
21	---	10.4	---	11.3	---	---	7.1	---	8.9
22	---	10.1	8.4	11.1	---	---	7.4	---	8.6
23	---	---	8.3	---	---	---	---	---	8.4
24	---	---	9.3	---	---	---	---	---	8.6
25	---	---	---	---	---	---	---	---	---
26	---	---	9.3	---	---	---	---	---	---
27	---	---	9.7	---	---	---	---	---	8.8
28	---	---	10.1	---	---	---	---	---	8.7
29	---	---	10.4	---	---	---	---	---	8.8
30	---	---	9.8	---	---	---	---	---	8.3
31	---	---	9.4	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

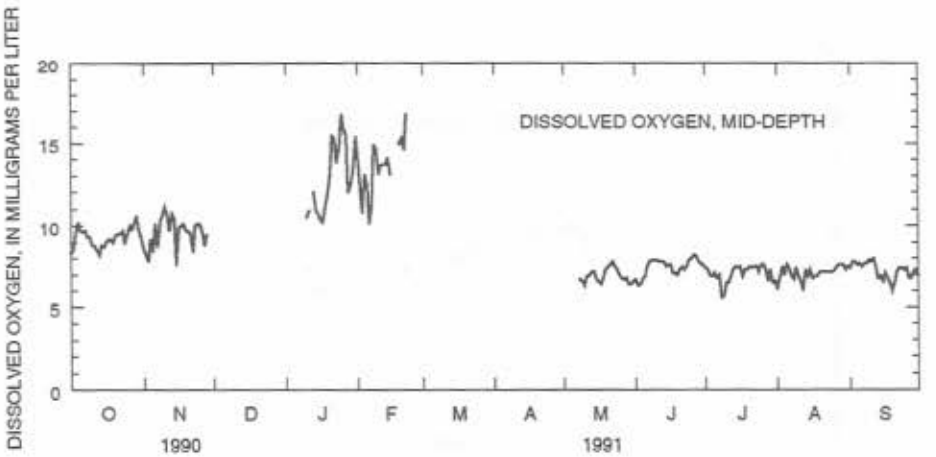
Dissolved Oxygen, Mid-Depth

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 19.3 mg/L January 25, 1991; minimum value recorded, 1.1 mg/L August 4, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.3	8.5	---	---	14.2	---	---	---	6.7	7.4	6.1b	7.4
2	8.6	8.2b	---	---	12.3	---	---	---	6.3	7.3	6.8b	7.8
3	9.5	7.8b	---	---	10.8	---	---	---	6.4	7.0	7.5	7.8
4	10.2	9.2	---	---	13.1	---	---	---	6.7	6.9	7.0a	7.6
5	9.7	8.4b	---	---	12.4	---	---	---	6.9	7.1	7.6	7.7
6	9.6	10.1	---	---	10.1	---	---	---	7.5	6.8b	7.4	7.5
7	9.7	8.7b	---	---	11.2	---	---	---	7.8	7.0	6.9	7.7
8	9.3	10.3b	---	---	14.9	---	---	6.7b	7.9	5.6b	6.7	7.7
9	9.3	10.6	---	---	14.6	---	---	6.6	7.9	5.7b	7.4	7.9
10	8.8	11.1	---	10.5	13.1	---	---	6.3b	7.9	6.5b	6.9	7.8
11	8.8	10.6	---	10.9	13.6	---	---	6.9	7.8	6.5	6.5b	8.0
12	8.5	9.7b	---	---	13.7	---	---	7.0	7.8	6.9	6.0b	7.4
13	8.2	10.7	---	12.0	13.7	---	---	7.2	7.8	7.3	7.3	6.8
14	8.8	10.4b	---	10.9	14.1	---	---	7.2	7.5	7.5	6.9b	6.9
15	8.7	7.6a	---	10.7	13.1	---	---	6.7	7.6	7.4	7.3	6.6
16	9.0	9.9	---	10.3	---	---	---	6.6	7.6	7.5	6.8	7.1
17	9.2	10.0	---	10.2	---	---	---	6.4	7.1	6.9	6.9	6.8
18	9.2	10.1	---	11.1	---	---	---	6.7	7.1	7.3	6.9	6.4
19	9.0	9.7	---	11.9	15.0	---	---	7.3	7.0	7.3	7.2	6.0b
20	9.4	9.7	---	13.1	15.3	---	---	7.5	7.3	7.5	7.2	6.5b
21	9.5	9.5	---	15.5	14.6	---	---	7.6	7.5	7.4	7.2	7.2
22	9.5	8.4	---	15.2	16.8	---	---	7.8	7.3	7.5	7.2	7.4
23	9.7	10.0	---	13.8	---	---	---	7.5	7.5	7.5	7.2	7.4
24	8.9	10.1	---	14.7	---	---	---	7.3	7.9	7.2	7.2	7.3b
25	9.5	10.1	---	16.8	---	---	---	7.0	8.0	7.6	7.2	7.4
26	10.0	9.7	---	15.9	---	---	---	6.8	8.2	7.6	7.4	6.8
27	9.8	8.8b	---	15.5	---	---	---	6.7	8.1	7.3	7.6	6.8
28	10.2	9.4	---	12.0	---	---	---	6.8b	7.8	6.6b	7.6	7.2
29	10.6	---	---	12.4	---	---	---	6.4	7.7	7.3	7.6	7.3
30	9.7	---	---	13.3	---	---	---	6.4b	7.6	6.5b	7.3	7.0b
31	9.2	---	---	15.4	---	---	---	6.6	---	6.6	7.5	---



DAILY MEAN DISSOLVED OXYGEN, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

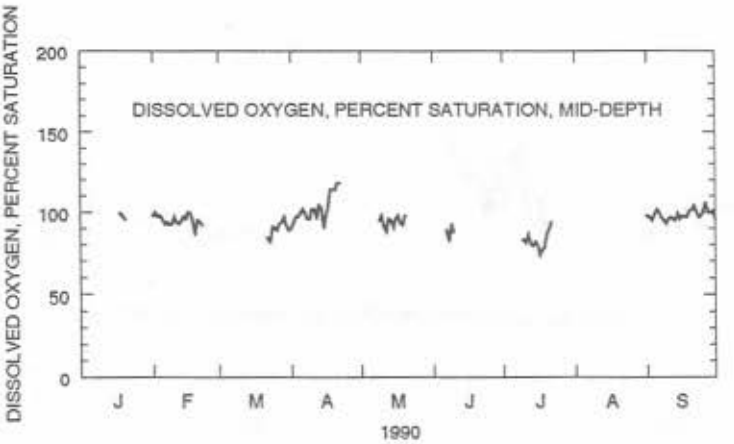
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--7 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 126 percent April 22, 1990; minimum value recorded, 28 percent July 17, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	98	---	90	---	---	---	---	98
2	---	100	---	93	---	---	---	---	97
3	---	97	---	97	---	---	---	---	---
4	---	98	---	97	---	---	---	---	---
5	---	96	---	99	---	---	---	---	102
6	---	93	---	102	---	---	---	---	100
7	---	94	---	99	---	89	---	---	97
8	---	92	---	96	---	82	---	---	95
9	---	93	---	96	95	93	---	---	93
10	---	97	---	102	98	88	83	---	---
11	---	94	---	102	91	---	81	---	97
12	---	93	---	96	88	---	86	---	96
13	---	95	---	104	96	---	80	---	95
14	---	97	---	103	95	---	79	---	99
15	---	96	---	90	91	---	82	---	96
16	---	100	---	97	96	---	80	---	---
17	---	99	---	104	98	---	74	---	97
18	99	94	---	114	93	---	77	---	97
19	98	86	---	114	92	---	78	---	101
20	96	95	---	114	98	---	87	---	---
21	---	94	---	118	---	---	90	---	104
22	---	92	84	118	---	---	94	---	100
23	---	---	82	---	---	---	---	---	97
24	---	---	91	---	---	---	---	---	98
25	---	---	---	---	---	---	---	---	---
26	---	---	89	---	---	---	---	---	---
27	---	---	93	---	---	---	---	---	100
28	---	---	94	---	---	---	---	---	100
29	---	---	97	---	---	---	---	---	101
30	---	---	92	---	---	---	---	---	96
31	---	---	89	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

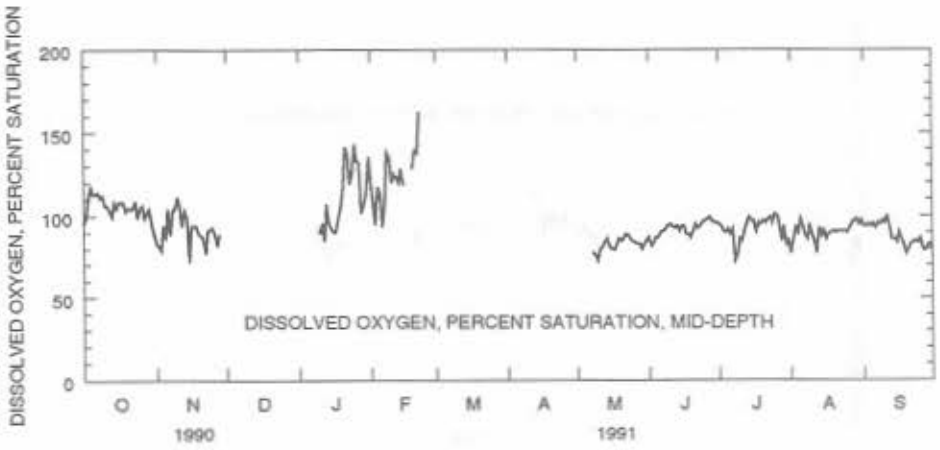
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 180 percent February 22, 1991; minimum value recorded, 14 percent November 15, 1990; August 4, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	96	83	---	---	122	---	---	---	87	95	77	94
2	99	82	---	---	106	---	---	---	82	94	86	94
3	110	79	---	---	95	---	---	---	84	91	94	95
4	118	94	---	---	117	---	---	---	87	90	89	94
5	113	86	---	---	113	---	---	---	87	92	98	95
6	113	104	---	---	94	---	---	---	90	89	95	93
7	114	89	---	---	106	---	---	---	91	92	88	96
8	111	104	---	---	138	---	---	77	92	73	86	95
9	112	104	---	---	135	---	---	76	94	76	95	97
10	106	111	---	90	120	---	---	73	95	86	88	96
11	106	105	---	94	125	---	---	80	94	85	84	100
12	103	94	---	---	123	---	---	81	93	91	77	93
13	100	103	---	107	120	---	---	84	94	95	93	86
14	108	99	---	95	128	---	---	86	91	99	87	86
15	105	72	---	93	119	---	---	81	94	97	92	84
16	108	94	---	90	---	---	---	80	94	97	86	90
17	108	94	---	90	---	---	---	79	89	91	89	86
18	108	94	---	98	---	---	---	82	89	96	90	82
19	103	89	---	105	129	---	---	86	87	95	91	77
20	105	88	---	117	139	---	---	85	91	97	90	80
21	104	86	---	141	138	---	---	86	95	96	91	83
22	105	77	---	137	162	---	---	89	93	98	91	84
23	109	91	---	119	---	---	---	88	94	99	91	85
24	99	92	---	125	---	---	---	86	96	96	91	84
25	105	93	---	143	---	---	---	84	97	101	90	86
26	106	89	---	133	---	---	---	84	98	100	93	80
27	99	82	---	131	---	---	---	83	99	95	96	79
28	102	88	---	102	---	---	---	83	97	85	97	82
29	105	---	---	106	---	---	---	80	96	94	98	83
30	95	---	---	114	---	---	---	83	96	83	95	81
31	89	---	---	135	---	---	---	85	---	85	97	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

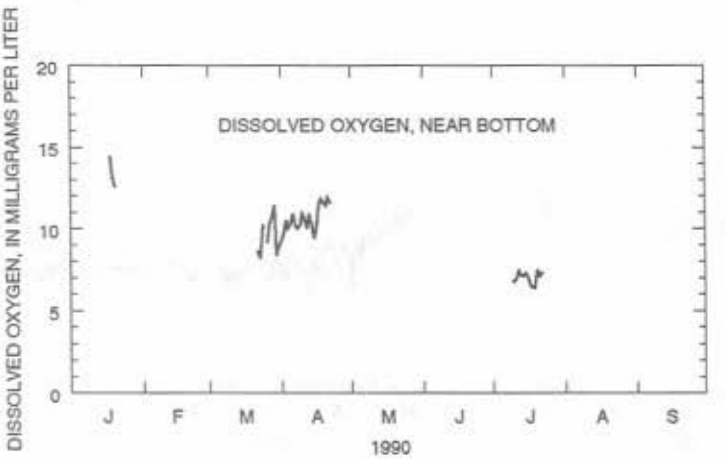
Dissolved Oxygen, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 16.5 mg/L January 18, 1990; minimum value recorded, 3.2 mg/L July 19, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	9.3	---	---	---	---	---
2	---	---	---	9.6	---	---	---	---	---
3	---	---	---	10.5	---	---	---	---	---
4	---	---	---	10.0	---	---	---	---	---
5	---	---	---	10.3	---	---	---	---	---
6	---	---	---	10.9	---	---	---	---	---
7	---	---	---	10.1	---	---	---	---	---
8	---	---	---	10.0	---	---	---	---	---
9	---	---	---	10.2	---	---	---	---	---
10	---	---	---	10.9	---	---	6.8	---	---
11	---	---	---	10.6	---	---	6.9	---	---
12	---	---	---	10.0	---	---	7.4	---	---
13	---	---	---	10.9	---	---	7.1	---	---
14	---	---	---	10.3	---	---	7.1	---	---
15	---	---	---	9.4	---	---	7.3	---	---
16	---	---	---	9.9	---	---	7.1	---	---
17	---	---	---	11.4	---	---	6.6b	---	---
18	14.4	---	---	11.8	---	---	6.4b	---	---
19	13.2	---	---	11.6	---	---	6.4b	---	---
20	12.6	---	---	11.4	---	---	7.5	---	---
21	---	---	---	11.9	---	---	7.1	---	---
22	---	---	8.6	11.6	---	---	7.3	---	---
23	---	---	8.2	---	---	---	---	---	---
24	---	---	10.2b	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---
26	---	---	9.2	---	---	---	---	---	---
27	---	---	10.3	---	---	---	---	---	---
28	---	---	10.7	---	---	---	---	---	---
29	---	---	11.4	---	---	---	---	---	---
30	---	---	8.4	---	---	---	---	---	---
31	---	---	8.9	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

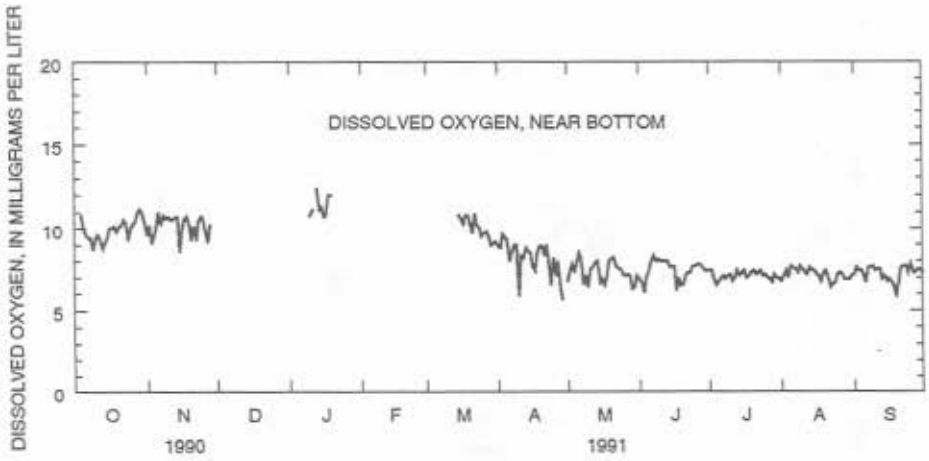
Dissolved Oxygen, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 15.2 mg/L January 13, 1991; minimum value recorded, <1.0 mg/L April 10, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	9.6	---	---	---	---	8.9	6.8b	6.9	7.4	6.8	7.2
2	---	10.2	---	---	---	---	8.8	7.4	6.7	7.4	7.1	7.6
3	---	9.1	---	---	---	---	9.6	7.8	6.1b	7.0	7.4	7.4
4	10.8	9.5	---	---	---	---	9.4	7.3	7.0	6.5	7.0	7.4
5	10.0	10.1	---	---	---	---	9.3	7.9	7.4	6.7	7.7	7.2
6	9.6	11.0	---	---	---	---	8.0	8.5	7.9	6.9	7.6	6.7
7	9.4	10.2	---	---	---	---	8.6	8.1	8.3	7.1	7.5	7.6
8	9.4	10.8	---	---	---	---	9.0	6.6b	8.0	6.9	7.3	7.6
9	8.7	10.6	---	---	---	---	9.0	7.0	8.1	7.1	7.7	7.7
10	9.4	10.7	---	10.8	---	---	5.9a	6.4b	8.0	7.2	7.5	7.4
11	9.6	10.5	---	11.1	---	---	8.3	7.5	8.0	6.8	7.3	7.5
12	9.3	10.5	---	---	---	---	8.2b	7.7	8.0	7.0	7.2	7.5
13	8.8	10.7	---	12.4	---	---	8.8	7.9	8.0	7.4	7.6	6.9
14	9.1	10.7	---	11.2	---	---	8.6b	8.0	7.6	7.1	7.4	7.1
15	9.4	8.6	---	11.3	---	10.8	8.5	6.7b	7.7	7.3	7.4	6.8
16	10.0	10.0	---	10.7	---	10.6	7.7b	6.9	7.7	7.4	7.2	6.9
17	10.0	10.5	---	10.8	---	10.3	7.4b	6.5b	6.2b	7.0	7.1	6.7
18	10.1	10.7	---	12.0	---	10.8	8.4	7.0b	7.0	7.1	6.8	6.4
19	9.8	10.2	---	12.0	---	10.8	8.9	8.0	6.5	7.3	7.3	5.8b
20	10.1	9.3	---	---	---	10.2	8.9	8.2	6.6	7.4	7.4	6.8
21	10.2	10.1	---	---	---	9.7	8.3	8.2	7.2	7.2	7.0	7.6
22	10.5	9.3	---	---	---	10.9	9.0	7.7	7.3	7.3	6.4	7.7
23	10.3	10.4	---	---	---	10.2	7.8b	7.5	7.3	7.4	6.6	7.7
24	9.3	10.7	---	---	---	10.0	6.5b	7.5	7.7	7.1	6.7	7.3
25	10.0	10.6	---	---	---	9.5	8.2	7.2	7.7	7.2	7.2	7.8
26	10.3	9.8	---	---	---	9.7	7.1b	7.1	7.8	7.0	7.3	7.3
27	10.4	9.2	---	---	---	9.8	8.0	7.2	7.8	6.9	7.2	7.3
28	11.0	10.2	---	---	---	9.4	6.3b	7.1	7.6	6.7	6.9	7.5
29	11.2	---	---	---	---	9.0	5.7b	6.3b	7.4	7.2	6.9	7.5
30	10.9	---	---	---	---	9.1	---	6.4b	7.4	7.0	6.9	7.3
31	10.3	---	---	---	---	9.2	---	7.1	---	6.9	7.1	---



DAILY MEAN DISSOLVED OXYGEN, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

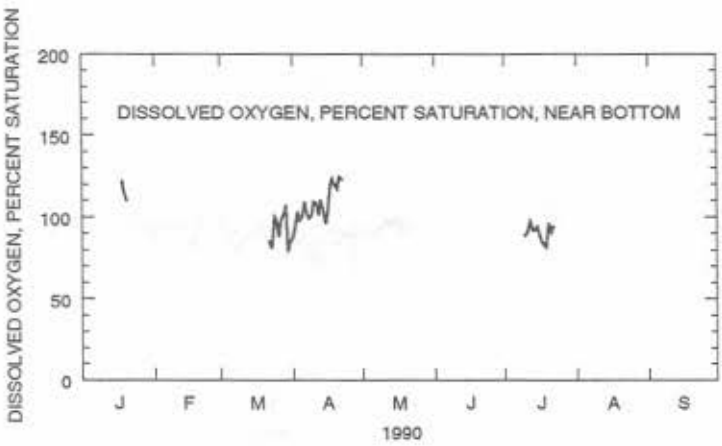
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 143 percent April 22, 1990; minimum value recorded, 41 percent July 19, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	88	---	---	---	---	---
2	---	---	---	93	---	---	---	---	---
3	---	---	---	103	---	---	---	---	---
4	---	---	---	98	---	---	---	---	---
5	---	---	---	100	---	---	---	---	---
6	---	---	---	109	---	---	---	---	---
7	---	---	---	101	---	---	---	---	---
8	---	---	---	99	---	---	---	---	---
9	---	---	---	101	---	---	---	---	---
10	---	---	---	109	---	---	89	---	---
11	---	---	---	108	---	---	91	---	---
12	---	---	---	101	---	---	97	---	---
13	---	---	---	110	---	---	92	---	---
14	---	---	---	104	---	---	92	---	---
15	---	---	---	96	---	---	94	---	---
16	---	---	---	102	---	---	90	---	---
17	---	---	---	119	---	---	85	---	---
18	122	---	---	123	---	---	83	---	---
19	115	---	---	119	---	---	82	---	---
20	110	---	---	117	---	---	96	---	---
21	---	---	---	124	---	---	91	---	---
22	---	---	85	123	---	---	94	---	---
23	---	---	81	---	---	---	---	---	---
24	---	---	100	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---
26	---	---	88	---	---	---	---	---	---
27	---	---	98	---	---	---	---	---	---
28	---	---	101	---	---	---	---	---	---
29	---	---	107	---	---	---	---	---	---
30	---	---	79	---	---	---	---	---	---
31	---	---	85	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALLIGATOR RIVER AT LIGHT 8

Table 15.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 7, Alligator River at light 8, January 1990-September 1991*--Continued

[Location of site 7 is latitude 35°55'58", longitude 75°59'47", Tyrrell County; U.S. Geological Survey downstream order number 0208117835]

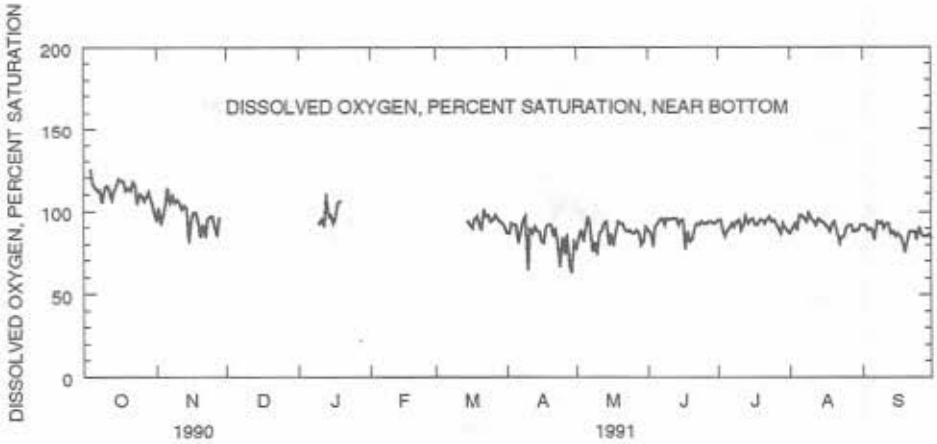
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--3 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 129 percent October 4, 1990; minimum value recorded, <10 percent April 10, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	94	---	---	---	---	87	78	89	95	87	92
2	---	102	---	---	---	---	87	85	87	95	90	92
3	---	92	---	---	---	---	93	89	79	90	93	89
4	124	97	---	---	---	---	92	82	91	85	89	90
5	116	104	---	---	---	---	92	89	93	88	98	89
6	113	113	---	---	---	---	81	97	95	90	98	83
7	112	105	---	---	---	---	89	93	96	93	96	94
8	112	109	---	---	---	---	95	76	92	91	94	93
9	105	105	---	---	---	---	97	81	96	94	99	94
10	113	107	---	93	---	---	65	74	95	95	96	90
11	115	104	---	95	---	---	90	87	96	89	94	93
12	112	101	---	---	---	---	87	89	96	92	92	93
13	107	103	---	110	---	---	91	93	96	97	96	87
14	111	101	---	97	---	---	88	94	92	93	94	88
15	115	81	---	98	---	94	88	80	95	95	94	85
16	119	95	---	93	---	92	82	85	95	96	92	87
17	118	99	---	95	---	90	81	80	77	92	91	85
18	118	99	---	105	---	95	91	87	88	92	88	81
19	112	93	---	106	---	97	92	94	82	95	93	75
20	113	84	---	---	---	92	92	93	83	95	94	83
21	112	92	---	---	---	89	85	93	91	93	88	88
22	117	84	---	---	---	101	90	89	93	95	81	88
23	115	95	---	---	---	97	79	88	92	97	84	88
24	104	97	---	---	---	98	67	89	94	94	85	83
25	110	97	---	---	---	94	84	87	93	95	90	91
26	109	91	---	---	---	95	74	87	93	92	92	86
27	106	85	---	---	---	98	86	89	94	90	92	85
28	109	96	---	---	---	95	68	87	94	87	88	85
29	111	---	---	---	---	94	63	80	93	93	89	86
30	106	---	---	---	---	93	---	82	93	90	89	84
31	100	---	---	---	---	91	---	91	---	88	92	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ALLIGATOR RIVER AT LIGHT 8

Table 16.--*Five-day mean water temperature and dissolved-oxygen values in water at site 7, Alligator River at light 8, January 1990-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/30/89-01/03/90	---	---	---	---	---	---	---	---
01/04/90-01/08/90	---	---	---	---	---	---	---	---
01/09/90-01/13/90	---	---	---	---	---	---	---	---
01/14/90-01/18/90	8.2	8.4	11.8	11.6	11.7	11.5	14.0	14.2
01/19/90-01/23/90	9.5	9.2	11.3	11.3	11.1	11.1	12.8	12.8
01/24/90-01/28/90	---	---	---	---	---	---	---	---
01/29/90-02/02/90	11.5	11.5	10.6	10.5	10.9	10.7	---	---
02/03/90-02/07/90	12.3	12.0	10.1	10.0	10.2	10.2	---	---
02/08/90-02/12/90	12.5	12.3	9.9	9.8	10.0	9.9	---	---
02/13/90-02/17/90	12.9	12.9	10.0	9.9	10.4	10.2	---	---
02/18/90-02/22/90	11.7	11.6	10.0	9.8	10.1	9.8	---	---
02/23/90-02/27/90	12.1	---	10.1	---	10.4	---	---	---
02/28/90-03/04/90	---	---	---	---	---	---	---	---
03/05/90-03/09/90	---	---	---	---	---	---	---	---
03/10/90-03/14/90	---	---	---	---	---	---	---	---
03/15/90-03/19/90	---	---	---	---	---	---	---	---
03/20/90-03/24/90	15.1	14.7	7.3	7.5	8.4	8.7	8.6	9.1
03/25/90-03/29/90	13.1	12.7	8.5	8.5	9.8	9.8	10.6	10.0
03/30/90-04/03/90	13.4	13.5	8.7	8.7	9.6	9.6	9.4	9.5
04/04/90-04/08/90	14.7	14.5	9.3	9.1	10.0	9.9	10.2	10.3
04/09/90-04/13/90	15.9	15.7	9.6	9.6	9.9	10.1	10.5	10.6
04/14/90-04/18/90	16.8	16.5	9.9	9.6	10.2	9.7	10.7	10.5
04/19/90-04/23/90	17.3	17.2	10.8	10.4	11.2	10.8	11.8	11.3
04/24/90-04/28/90	---	---	---	---	---	---	---	---
04/29/90-05/03/90	---	---	---	---	---	---	---	---
05/04/90-05/08/90	21.7	21.2	8.4	8.1	8.5	8.4	---	---
05/09/90-05/13/90	21.6	21.3	8.4	8.0	8.5	8.0	---	---
05/14/90-05/18/90	23.1	22.8	8.2	8.1	8.2	8.1	---	---
05/19/90-05/23/90	22.8	22.1	8.3	8.4	8.1	8.3	---	---
05/24/90-05/28/90	21.1	20.9	8.7	8.6	---	---	---	---
05/29/90-06/02/90	21.7	21.6	8.8	8.6	---	---	---	---
06/03/90-06/07/90	23.5	23.3	8.3	8.0	7.7	7.0	---	---
06/08/90-06/12/90	25.7	25.5	8.5	9.3	7.2	7.4	---	---
06/13/90-06/17/90	---	---	---	---	---	---	---	---
06/18/90-06/22/90	---	---	---	---	---	---	---	---

Table 16.--*Five-day mean water temperature and dissolved-oxygen values in water at site 7, Alligator River at light 8, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/23/90-06/27/90	---	---	---	---	---	---	---	---
06/28/90-07/02/90	---	---	---	---	---	---	---	---
07/03/90-07/07/90	---	---	---	---	---	---	---	---
07/08/90-07/12/90	29.0	28.7	6.7	6.6	6.5	6.4	7.1	7.1
07/13/90-07/17/90	28.3	28.0	6.9	6.5	6.2	5.9	7.1	6.8
07/18/90-07/22/90	28.1	27.8	7.8	7.6	6.8	6.9	7.0	7.2
07/23/90-07/27/90	27.9	---	8.4	---	7.6	---	7.5	---
07/28/90-08/01/90	---	---	---	---	---	---	---	---
08/02/90-08/06/90	---	---	---	---	---	---	---	---
08/07/90-08/11/90	---	---	---	---	---	---	---	---
08/12/90-08/16/90	---	---	---	---	---	---	---	---
08/17/90-08/21/90	---	---	---	---	---	---	---	---
08/22/90-08/26/90	---	---	---	---	---	---	---	---
08/27/90-08/31/90	27.0	26.7	7.9	7.3	8.0	7.5	---	---
09/01/90-09/05/90	26.4	25.9	8.1	7.8	8.1	7.8	---	---
09/06/90-09/10/90	26.3	26.1	8.0	7.6	7.9	7.6	---	---
09/11/90-09/15/90	26.7	26.4	8.0	7.7	7.8	7.7	---	---
09/16/90-09/20/90	23.7	23.2	8.4	8.2	8.5	8.4	---	---
09/21/90-09/25/90	22.3	21.9	8.8	8.5	8.8	8.6	---	---
09/26/90-09/30/90	22.2	22.0	9.0	8.5	9.0	8.6	---	---
10/01/90-10/05/90	22.7	22.4	9.1	8.8	9.4	9.3	10.3	10.3
10/06/90-10/10/90	24.3	24.1	9.1	8.5	9.4	9.1	9.2	9.4
10/11/90-10/15/90	25.1	24.8	8.8	8.3	8.8	8.4	9.3	9.3
10/16/90-10/20/90	22.5	21.9	9.2	9.0	9.4	9.1	10.2	9.9
10/21/90-10/25/90	20.4	20.2	9.8	9.5	9.6	9.3	10.0	10.0
10/26/90-10/30/90	15.5	14.9	10.6	10.6	9.9	10.3	10.7	10.9
10/31/90-11/04/90	15.1	15.5	10.9	9.7	8.9	7.7	9.8	9.5
11/05/90-11/09/90	16.0	15.7	10.8	10.6	9.9	10.0	10.5	10.8
11/10/90-11/14/90	14.0	13.6	10.9	9.5	10.6	9.4	10.6	10.1
11/15/90-11/19/90	12.4	12.0	8.3	7.8	10.0	9.8	10.3	9.8
11/20/90-11/24/90	11.0	10.9	7.8	7.5	9.8	9.5	10.2	10.1
11/25/90-11/29/90	11.9	12.0	8.2	7.5	10.0	9.0	10.4	9.4
11/30/90-12/04/90	---	---	---	---	---	---	---	---
12/05/90-12/09/90	---	---	---	---	---	---	---	---
12/10/90-12/14/90	---	---	---	---	---	---	---	---

Table 16.--*Five-day mean water temperature and dissolved-oxygen values in water at site 7, Alligator River at light 8, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/15/90-12/19/90	---	---	---	---	---	---	---	---
12/20/90-12/24/90	---	---	---	---	---	---	---	---
12/25/90-12/29/90	---	---	---	---	---	---	---	---
12/30/90-01/03/91	---	---	---	---	---	---	---	---
01/04/91-01/08/91	---	---	---	---	---	---	---	---
01/09/91-01/13/91	9.2	9.0	10.9	10.4	11.0	10.6	11.3	10.9
01/14/91-01/18/91	9.2	9.5	10.3	10.9	10.5	11.1	11.0	11.7
01/19/91-01/23/91	9.8	9.9	12.1	12.5	13.7	14.6	11.0	13.7
01/24/91-01/28/91	8.2	7.7	11.5	10.9	15.4	13.8	---	---
01/29/91-02/02/91	8.9	8.7	9.8	8.6	13.9	13.0	---	---
02/03/91-02/07/91	11.3	11.4	8.9	8.4	11.5	12.3	---	---
02/08/91-02/12/91	11.5	11.1	---	---	14.2	13.7	---	---
02/13/91-02/17/91	10.4	10.0	---	---	13.5	13.3	---	---
02/18/91-02/22/91	10.9	11.2	---	---	14.8	15.5	---	---
02/23/91-02/27/91	---	---	---	---	---	---	---	---
02/28/91-03/04/91	---	---	---	---	---	---	---	---
03/05/91-03/09/91	---	---	---	---	---	---	---	---
03/10/91-03/14/91	9.1	9.1	10.6	10.2	10.2	10.0	10.8	10.8
03/15/91-03/19/91	9.5	9.5	10.1	9.8	9.6	---	10.8	10.5
03/20/91-03/24/91	12.4	12.5	9.9	9.9	---	---	10.2	10.1
03/25/91-03/29/91	15.7	15.6	9.6	9.4	---	---	9.5	9.3
03/30/91-04/03/91	14.8	14.4	9.5	9.4	---	---	9.1	9.2
04/04/91-04/08/91	16.2	16.3	8.0	7.5	---	---	8.8	8.9
04/09/91-04/13/91	18.5	18.0	6.7	6.8	---	---	8.0	8.0
04/14/91-04/18/91	18.2	18.0	7.3	7.1	---	---	8.4	7.9
04/19/91-04/23/91	16.4	16.1	6.6	6.4	---	---	8.5	8.0
04/24/91-04/28/91	18.1	18.0	7.0	6.4	---	---	7.5	7.1
04/29/91-05/03/91	21.6	21.4	7.5	7.2	---	---	7.1	7.1
05/04/91-05/08/91	21.7	21.6	8.2	8.0	7.7	6.4	7.9	7.4
05/09/91-05/13/91	22.5	22.4	---	---	6.9	6.9	7.3	7.5
05/14/91-05/18/91	25.3	25.0	---	---	6.8	6.6	7.0	7.0
05/19/91-05/23/91	22.3	21.8	---	---	7.6	7.5	7.9	7.9
05/24/91-05/28/91	25.5	25.3	---	---	7.0	6.7	7.2	7.1
05/29/91-06/02/91	28.3	28.2	---	---	6.6	6.4	6.6	6.6
06/03/91-06/07/91	26.4	25.4	---	---	7.2	7.2	7.5	7.5

Table 16.--*Five-day mean water temperature and dissolved-oxygen values in water at site 7, Alligator River at light 8, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/08/91-06/12/91	23.9	23.7	---	---	7.9	7.8	8.0	8.0
06/13/91-06/17/91	25.9	25.9	---	---	7.6	7.3	7.4	7.3
06/18/91-06/22/91	27.2	27.0	---	---	7.3	7.2	6.9	7.0
06/23/91-06/27/91	25.3	24.8	8.3	7.9	8.0	7.9	7.7	7.7
06/28/91-07/02/91	27.5	27.3	8.6	8.6	7.6	7.4	7.4	7.4
07/03/91-07/07/91	29.1	29.0	9.5	9.3	6.9	6.9	6.8	6.8
07/08/91-07/12/91	29.7	29.4	9.3	9.0	6.2	6.4	6.9	7.1
07/13/91-07/17/91	29.3	28.9	8.0	7.9	7.5	7.2	7.2	7.2
07/18/91-07/22/91	28.9	28.5	---	---	7.5	7.4	7.2	7.3
07/23/91-07/27/91	29.6	29.2	7.0	6.3	7.6	7.2	7.1	7.0
07/28/91-08/01/91	28.0	27.7	6.1	5.6	6.8	6.4	7.0	7.0
08/02/91-08/06/91	27.8	27.6	7.4	7.0	7.4	7.2	7.4	7.4
08/07/91-08/11/91	28.1	27.8	7.6	6.5	7.2	6.3	7.5	7.3
08/12/91-08/16/91	27.6	27.4	7.3	6.7	7.1	6.8	7.4	7.3
08/17/91-08/21/91	27.8	27.4	7.8	7.6	7.2	7.0	7.1	7.1
08/22/91-08/26/91	27.3	27.0	7.2	6.9	7.3	7.2	6.9	6.9
08/27/91-08/31/91	28.3	28.1	7.6	7.1	7.6	7.4	7.0	7.0
09/01/91-09/05/91	25.9	25.4	8.0	7.7	7.7	7.6	7.4	7.2
09/06/91-09/10/91	25.9	25.6	8.0	7.6	7.9	7.7	7.4	7.5
09/11/91-09/15/91	26.8	26.6	8.1	7.8	7.2	7.0	7.1	7.1
09/16/91-09/20/91	27.3	26.6	7.6	7.4	6.7	6.4	6.5	6.6
09/21/91-09/25/91	22.3	22.2	9.1	8.8	7.5	7.2	7.6	7.6
09/26/91-09/30/91	22.5	22.1	9.2	8.8	7.1	6.8	7.4	7.3

Table 17.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 8, North Landing River at Gibbs Point, January-September 1991*

[Location of site 8 is latitude 36°32'45", longitude 76°01'51", Currituck County; U.S. Geological Survey downstream order number 0204352850]

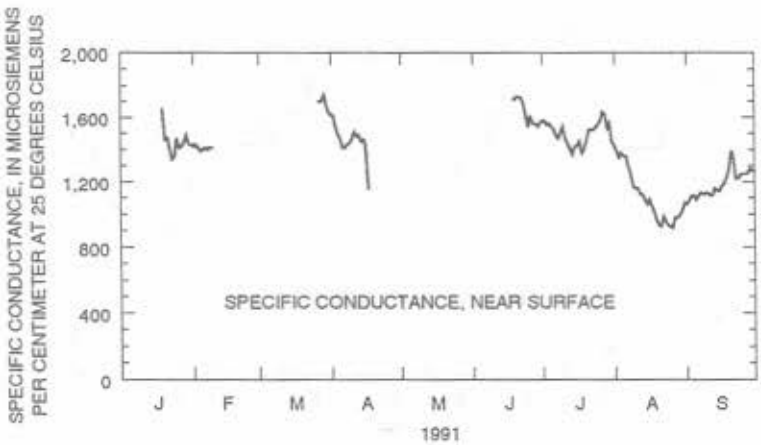
Specific Conductance, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 1,810 µS/cm March 29, 1991; minimum value recorded, 850 µS/cm August 26, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1,420	---	1,610	---	---	1,580	1,420	1,060
2	---	1,430	---	1,610	---	---	1,580	1,390	1,080
3	---	1,410	---	1,540	---	---	1,550	1,350	1,110
4	---	1,390	---	1,500	---	---	1,560	1,380	1,110
5	---	1,400	---	1,470	---	---	1,540	1,360	1,090
6	---	1,410	---	1,410	---	---	1,520	1,360	1,110
7	---	1,400	---	1,410	---	---	1,480	1,300	1,130
8	---	1,410	---	1,430	---	---	1,470	1,250	1,120
9	---	1,410	---	1,440	---	---	1,510	1,170	1,130
10	---	---	---	1,460	---	---	1,540	1,160	1,130
11	---	---	---	1,510	---	---	1,470	1,160	1,110
12	---	---	---	1,480	---	---	1,430	1,120	1,120
13	---	---	---	1,490	---	---	1,400	1,120	1,160
14	---	---	---	1,450	---	---	1,370	1,090	1,150
15	---	---	---	1,460	---	---	1,420	1,060	1,140
16	---	---	---	1,420	---	---	1,420	1,090	1,170
17	---	---	---	1,160	---	---	1,450	1,050	1,190
18	---	---	---	---	---	---	1,380	1,020	1,220
19	1,650	---	---	---	---	1,710	1,400	966	1,270
20	1,460	---	---	---	---	1,730	1,450	937	1,390
21	1,470	---	---	---	---	1,730	1,520	929	1,360
22	1,410	---	---	---	---	1,720	1,520	982	1,220
23	1,340	---	---	---	---	1,680	1,520	953	1,220
24	1,360	---	---	---	---	1,610	1,540	934	1,240
25	1,470	---	---	---	---	1,540	1,550	922	1,250
26	1,410	---	---	---	---	1,610	1,580	916	1,250
27	1,420	---	1,700	---	---	1,560	1,630	978	1,250
28	1,440	---	1,700	---	---	1,560	1,620	978	1,280
29	1,490	---	1,740	---	---	1,540	1,530	998	1,270
30	1,430	---	1,690	---	---	1,560	1,560	1,020	1,270
31	1,430	---	1,630	---	---	---	1,440	1,070	---



DAILY MEAN SPECIFIC CONDUCTANCE, NORTH LANDING RIVER AT GIBBS POINT

Table 17.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 8, North Landing River at Gibbs Point, January-September 1991*--Continued

[Location of site 8 is latitude 36°32'45", longitude 76°01'51", Currituck County; U.S. Geological Survey downstream order number 0204352850]

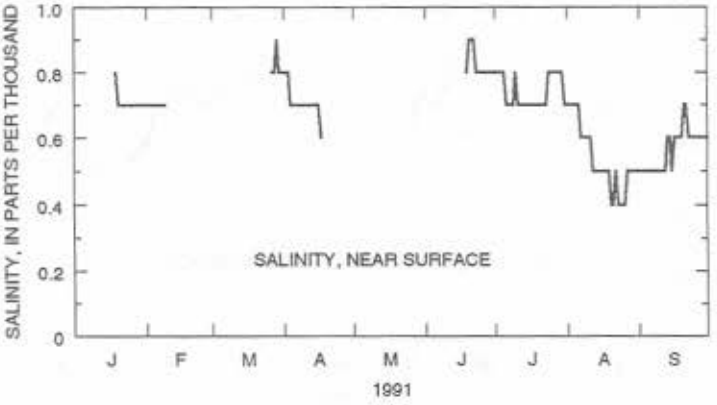
Salinity, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 0.9 ppt January 19, March 27-30, June 19-23, 1991; minimum value recorded, 0.4 ppt August 18-30, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	0.7	---	0.8	---	---	0.8	0.7	0.5
2	---	.7	---	.8	---	---	.8	.7	.5
3	---	.7	---	.8	---	---	.8	.7	.5
4	---	.7	---	.7	---	---	.8	.7	.5
5	---	.7	---	.7	---	---	.8	.7	.5
6	---	.7	---	.7	---	---	.7	.7	.5
7	---	.7	---	.7	---	---	.7	.6	.5
8	---	.7	---	.7	---	---	.7	.6	.5
9	---	.7	---	.7	---	---	.7	.6	.5
10	---	---	---	.7	---	---	.8	.6	.5
11	---	---	---	.7	---	---	.7	.6	.5
12	---	---	---	.7	---	---	.7	.5	.5
13	---	---	---	.7	---	---	.7	.5	.6
14	---	---	---	.7	---	---	.7	.5	.6
15	---	---	---	.7	---	---	.7	.5	.5
16	---	---	---	.7	---	---	.7	.5	.6
17	---	---	---	.6	---	---	.7	.5	.6
18	---	---	---	---	---	---	.7	.5	.6
19	0.8	---	---	---	---	0.8	.7	.5	.6
20	.7	---	---	---	---	.9	.7	.4	.7
21	.7	---	---	---	---	.9	.7	.4	.7
22	.7	---	---	---	---	.9	.7	.5	.6
23	.7	---	---	---	---	.8	.7	.4	.6
24	.7	---	---	---	---	.8	.8	.4	.6
25	.7	---	---	---	---	.8	.8	.4	.6
26	.7	---	---	---	---	.8	.8	.4	.6
27	.7	---	0.8	---	---	.8	.8	.5	.6
28	.7	---	.8	---	---	.8	.8	.5	.6
29	.7	---	.9	---	---	.8	.8	.5	.6
30	.7	---	.8	---	---	.8	.8	.5	.6
31	.7	---	.8	---	---	---	.7	.5	---



DAILY MEAN SALINITY, NORTH LANDING RIVER AT GIBBS POINT

Table 17.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 8, North Landing River at Gibbs Point, January-September 1991*--Continued

[Location of site 8 is latitude 36°32'45", longitude 76°01'51", Currituck County; U.S. Geological Survey downstream order number 0204352850]

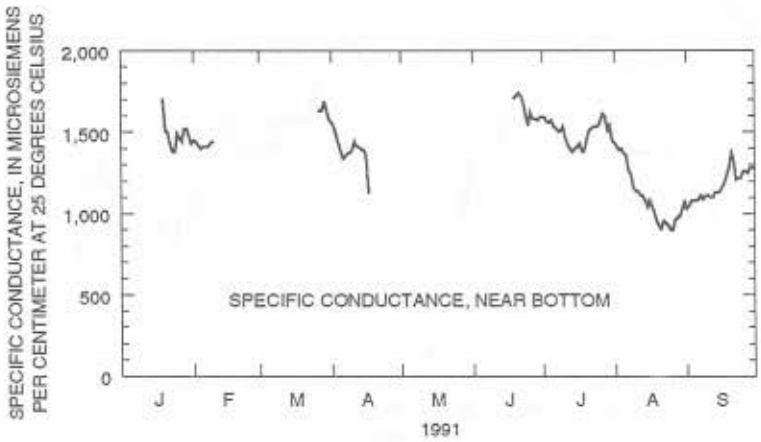
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 1,800 µS/cm June 20, 1991; minimum value recorded, 836 µS/cm August 21, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1,450	---	1,560	---	---	1,590	1,430	1,030
2	---	1,440	---	1,540	---	---	1,590	1,410	1,050
3	---	1,420	---	1,490	---	---	1,560	1,390	1,080
4	---	1,400	---	1,440	---	---	1,560	1,400	1,080
5	---	1,410	---	1,390	---	---	1,570	1,370	1,080
6	---	1,410	---	1,340	---	---	1,530	1,350	1,090
7	---	1,410	---	1,350	---	---	1,520	1,270	1,110
8	---	1,430	---	1,370	---	---	1,500	1,240	1,090
9	---	1,440	---	1,370	---	---	1,510	1,160	1,110
10	---	---	---	1,390	---	---	1,530	1,140	1,110
11	---	---	---	1,440	---	---	1,460	1,140	1,100
12	---	---	---	1,410	---	---	1,420	1,110	1,100
13	---	---	---	1,410	---	---	1,390	1,110	1,130
14	---	---	---	1,390	---	---	1,380	1,080	1,130
15	---	---	---	1,390	---	---	1,400	1,040	1,130
16	---	---	---	1,360	---	---	1,410	1,080	1,160
17	---	---	---	1,130	---	---	1,430	1,040	1,190
18	---	---	---	---	---	---	1,380	1,010	1,230
19	1,700	---	---	---	---	1,710	1,380	955	1,280
20	1,510	---	---	---	---	1,730	1,450	922	1,370
21	1,490	---	---	---	---	1,740	1,510	903	1,340
22	1,430	---	---	---	---	1,720	1,520	955	1,210
23	1,380	---	---	---	---	1,670	1,530	941	1,220
24	1,380	---	---	---	---	1,600	1,530	927	1,220
25	1,490	---	---	---	---	1,540	1,540	900	1,260
26	1,460	---	---	---	---	1,620	1,570	896	1,260
27	1,440	---	1,630	---	---	1,580	1,610	959	1,250
28	1,520	---	1,630	---	---	1,580	1,590	975	1,280
29	1,520	---	1,690	---	---	1,570	1,510	992	1,280
30	1,470	---	1,640	---	---	1,590	1,540	1,030	1,280
31	1,430	---	1,580	---	---	---	1,450	1,070	---



DAILY MEAN SPECIFIC CONDUCTANCE, NORTH LANDING RIVER AT GIBBS POINT

Table 17.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 8, North Landing River at Gibbs Point, January-September 1991*--Continued

[Location of site 8 is latitude 36°32'45", longitude 76°01'51", Currituck County; U.S. Geological Survey downstream order number 0204352850]

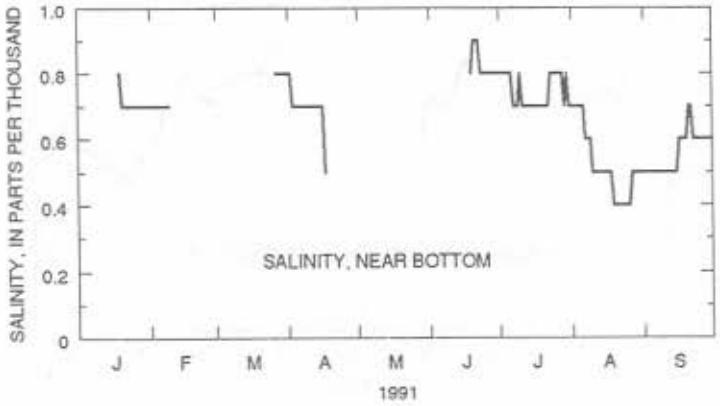
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 0.9 ppt January 19, March 28, 29, June 19-22, 1991; minimum value recorded, 0.4 ppt April 17, August 18-30, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	0.7	---	0.8	---	---	0.8	0.7	0.5
2	---	.7	---	.8	---	---	.8	.7	.5
3	---	.7	---	.7	---	---	.8	.7	.5
4	---	.7	---	.7	---	---	.8	.7	.5
5	---	.7	---	.7	---	---	.8	.7	.5
6	---	.7	---	.7	---	---	.8	.7	.5
7	---	.7	---	.7	---	---	.7	.6	.5
8	---	.7	---	.7	---	---	.7	.6	.5
9	---	.7	---	.7	---	---	.7	.6	.5
10	---	---	---	.7	---	---	.8	.5	.5
11	---	---	---	.7	---	---	.7	.5	.5
12	---	---	---	.7	---	---	.7	.5	.5
13	---	---	---	.7	---	---	.7	.5	.5
14	---	---	---	.7	---	---	.7	.5	.5
15	---	---	---	.7	---	---	.7	.5	.5
16	---	---	---	.7	---	---	.7	.5	.6
17	---	---	---	.5	---	---	.7	.5	.6
18	---	---	---	---	---	---	.7	.5	.6
19	0.8	---	---	---	---	0.8	.7	.4	.6
20	.7	---	---	---	---	.9	.7	.4	.7
21	.7	---	---	---	---	.9	.7	.4	.7
22	.7	---	---	---	---	.9	.7	.4	.6
23	.7	---	---	---	---	.8	.8	.4	.6
24	.7	---	---	---	---	.8	.8	.4	.6
25	.7	---	---	---	---	.8	.8	.4	.6
26	.7	---	---	---	---	.8	.8	.4	.6
27	.7	---	0.8	---	---	.8	.8	.5	.6
28	.7	---	.8	---	---	.8	.8	.5	.6
29	.7	---	.8	---	---	.8	.7	.5	.6
30	.7	---	.8	---	---	.8	.8	.5	.6
31	.7	---	.8	---	---	---	.7	.5	---



DAILY MEAN SALINITY, NORTH LANDING RIVER AT GIBBS POINT

Table 17.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 8, North Landing River at Gibbs Point, January-September 1991*--Continued

[Location of site 8 is latitude 36°32'45", longitude 76°01'51", Currituck County; U.S. Geological Survey downstream order number 0204352850]

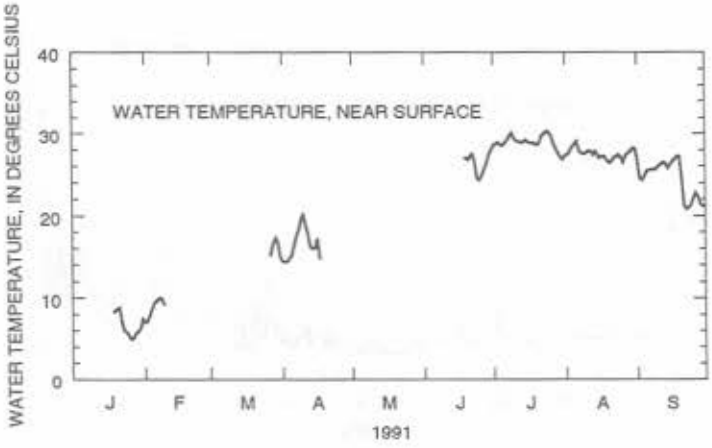
Water Temperature, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1991.--Maximum value recorded, 31.6 °C July 3, 8, 1991; minimum value recorded, 4.4 °C January 26, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), JANUARY-SEPTEMBER 1991

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	7.0	---	14.4	---	---	28.5	27.4	27.1
2	---	7.2	---	14.4	---	---	28.7	27.4	24.5
3	---	7.9	---	14.4	---	---	28.9	27.8	24.4
4	---	8.8	---	14.8	---	---	28.5	28.3	24.9
5	---	9.4	---	15.2	---	---	28.5	28.7	25.4
6	---	9.7	---	16.5	---	---	28.8	29.1	25.5
7	---	10.0	---	17.7	---	---	29.2	28.0	25.6
8	---	9.9	---	18.3	---	---	29.7	27.6	25.5
9	---	9.3	---	19.7	---	---	30.1	27.5	25.7
10	---	---	---	20.1	---	---	29.5	27.7	26.0
11	---	---	---	18.8	---	---	29.1	27.9	26.2
12	---	---	---	17.5	---	---	29.0	27.8	26.5
13	---	---	---	16.2	---	---	28.8	27.4	26.3
14	---	---	---	16.0	---	---	29.0	27.8	25.8
15	---	---	---	16.1	---	---	29.2	27.3	26.1
16	---	---	---	17.2	---	---	28.9	27.0	26.6
17	---	---	---	14.9	---	---	28.8	27.3	26.9
18	---	---	---	---	---	---	28.9	27.3	27.2
19	8.4	---	---	---	---	27.0	28.7	26.6	27.3
20	8.7	---	---	---	---	26.8	28.6	26.4	24.3
21	8.8	---	---	---	---	27.2	29.0	26.6	21.3
22	7.3	---	---	---	---	27.5	29.8	27.1	20.8
23	6.0	---	---	---	---	26.4	30.0	27.2	21.1
24	5.8	---	---	---	---	24.5	30.3	27.4	21.4
25	5.4	---	---	---	---	24.4	30.2	27.0	22.2
26	4.9	---	---	---	---	24.8	29.6	26.5	22.8
27	5.1	---	15.3	---	---	25.5	28.9	27.3	22.3
28	5.7	---	16.6	---	---	26.3	28.1	27.7	21.4
29	5.9	---	17.3	---	---	27.4	27.6	27.8	21.2
30	6.4	---	16.9	---	---	27.9	27.1	28.2	21.3
31	7.4	---	15.0	---	---	---	26.9	28.1	---



DAILY MEAN WATER TEMPERATURE, NORTH LANDING RIVER AT GIBBS POINT

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

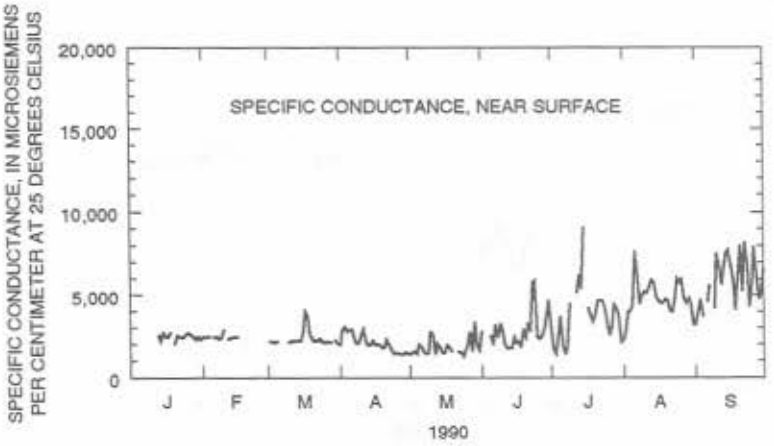
Specific Conductance, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 11,500 µS/cm July 15, 1990; minimum value recorded, 679 µS/cm April 19, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	2,370	---	1,970	1,350	2,740	2,840	2,230	3,190
2	---	2,410	2,130	2,830	1,450	---	1,700	2,680	3,890
3	---	2,410	2,110	3,040	1,550	---	1,400	3,980	4,680
4	---	2,440	2,090	2,740	1,410	---	2,520	3,980	3,700
5	---	---	2,130	2,860	1,960	2,460	3,680	4,410	---
6	---	2,370	---	2,880	1,820	1,950	1,860	7,650	4,620
7	---	2,400	---	2,250	1,470	3,180	1,340	6,520	5,560
8	---	2,300	---	2,010	1,410	2,390	1,910	4,460	---
9	---	2,390	---	2,070	1,440	3,250	4,400	4,970	4,240
10	---	2,830	2,120	2,460	2,710	2,910	---	5,190	7,510
11	---	---	2,170	2,870	2,560	1,970	---	5,110	6,740
12	---	2,300	2,150	2,110	1,380	1,690	5,180	5,470	5,630
13	2,500	2,340	2,190	1,960	1,990	1,740	6,250	5,900	6,610
14	2,160	2,410	2,190	1,940	1,800	1,760	5,410	5,770	7,570
15	2,640	2,360	2,190	2,170	1,440	2,390	9,030	4,870	7,720
16	2,410	2,400	2,520	1,970	1,440	2,050	---	4,660	6,830
17	2,380	---	3,960	1,980	1,890	2,100	4,180	4,500	5,950
18	2,630	---	3,630	1,940	1,760	1,790	3,680	4,480	4,110
19	---	---	2,580	1,760	1,570	2,760	3,380	4,740	6,100
20	2,040	---	2,250	1,780	---	2,360	3,850	4,640	7,990
21	2,510	---	2,130	2,240	---	3,130	4,640	4,080	5,250
22	2,400	---	2,180	1,940	1,510	2,880	4,650	4,000	8,160
23	2,360	---	2,290	1,650	1,480	5,750	4,600	4,760	6,840
24	2,430	---	2,150	1,400	1,250	5,880	4,130	5,980	4,280
25	2,610	---	2,060	1,420	1,600	2,390	3,360	5,760	5,630
26	2,660	---	2,150	1,410	1,940	2,320	2,550	6,050	7,900
27	2,490	---	2,110	1,370	2,720	2,460	2,890	4,780	6,240
28	2,440	2,080	2,110	1,370	1,560	2,890	4,360	4,490	4,720
29	2,270	---	---	1,460	3,320	3,820	4,160	4,770	5,110
30	2,400	---	2,160	1,410	1,910	4,640	3,780	4,450	6,530
31	2,260	---	1,990	---	1,590	---	2,110	3,200	---



DAILY MEAN SPECIFIC CONDUCTANCE, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

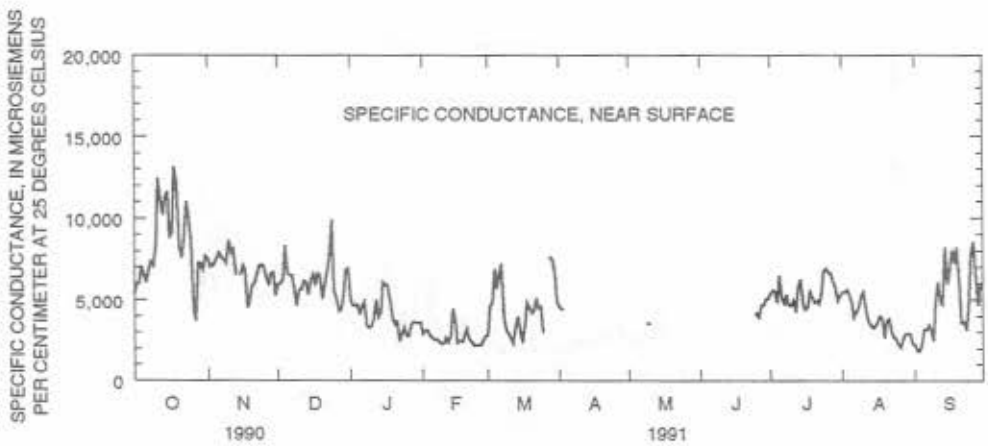
Specific Conductance, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 16,000 µS/cm October 18, 1990; minimum value recorded, 1,940 µS/cm August 26, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,410	7,470	5,970	4,970	2,940	2,830	4,540	---	---	5,350	5,490	2,210
2	6,000	7,030	6,030	4,680	3,070	4,610	4,420	---	---	5,590	5,480	1,840
3	6,040	7,110	6,260	4,620	3,130	4,850	---	---	---	5,500	5,630	1,830
4	7,050	7,250	8,310	4,700	2,800	6,910	---	---	---	4,840	5,330	2,260
5	6,600	7,580	6,660	4,120	2,640	5,700	---	---	---	6,470	4,830	3,160
6	6,050	7,860	6,510	4,700	2,550	6,600	---	---	---	5,100	3,970	3,160
7	6,910	7,560	6,490	4,910	2,580	7,210	---	---	---	4,820	4,230	3,440
8	7,330	7,430	5,500	3,380	2,410	3,960	---	---	---	5,320	4,590	3,160
9	7,070	7,250	4,630	3,270	2,280	3,070	---	3,560	---	4,670	5,170	2,500
10	8,310	8,620	5,620	3,340	2,320	2,940	---	3,550	---	4,640	5,470	4,750
11	12,400	7,870	5,620	3,900	2,660	2,610	---	---	---	4,960	4,440	6,070
12	11,100	8,050	6,130	5,000	2,370	2,350	---	---	---	4,260	3,790	4,860
13	10,200	6,600	6,060	3,970	2,850	3,320	---	---	---	5,710	3,490	4,740
14	11,200	---	5,320	4,220	4,400	3,970	---	---	---	6,250	3,290	8,170
15	11,600	6,590	6,220	6,050	3,760	2,930	---	---	---	4,770	3,340	6,000
16	8,820	7,090	6,590	5,900	2,330	2,370	---	---	---	4,400	3,620	6,770
17	9,160	6,840	5,920	5,890	2,460	3,470	---	---	---	4,570	3,990	8,010
18	13,100	4,520	6,600	5,060	2,400	4,820	---	---	---	5,490	3,900	7,260
19	12,100	5,140	6,510	3,860	2,750	4,490	---	---	---	5,200	2,690	8,170
20	8,220	5,910	5,080	3,460	3,200	4,200	---	---	---	4,840	3,690	6,060
21	7,590	6,030	6,000	3,640	2,510	4,340	---	---	---	4,950	3,810	3,600
22	8,740	6,670	6,700	2,450	2,420	5,080	---	---	---	4,770	3,020	3,620
23	11,000	7,090	7,600	2,890	2,160	4,490	---	---	---	5,460	2,720	3,130
24	10,200	7,100	9,870	3,290	2,160	4,580	---	---	---	6,790	2,570	4,360
25	8,620	7,050	5,570	2,770	2,170	3,050	---	---	4,140	6,920	2,270	7,850
26	4,370	6,360	5,050	2,790	2,210	---	---	---	3,950	6,640	2,070	8,520
27	3,740	5,920	4,310	3,450	2,460	---	---	---	4,670	6,650	2,670	6,730
28	7,250	6,600	4,390	3,630	2,780	7,610	---	---	4,650	6,090	2,900	4,660
29	7,240	6,700	5,310	3,580	---	7,430	---	---	5,050	5,820	2,930	5,760
30	6,860	5,270	6,850	3,610	---	6,700	---	---	5,080	4,960	2,910	6,110
31	7,660	---	6,930	3,610	---	4,930	---	---	---	5,280	2,290	---



DAILY MEAN SPECIFIC CONDUCTANCE, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

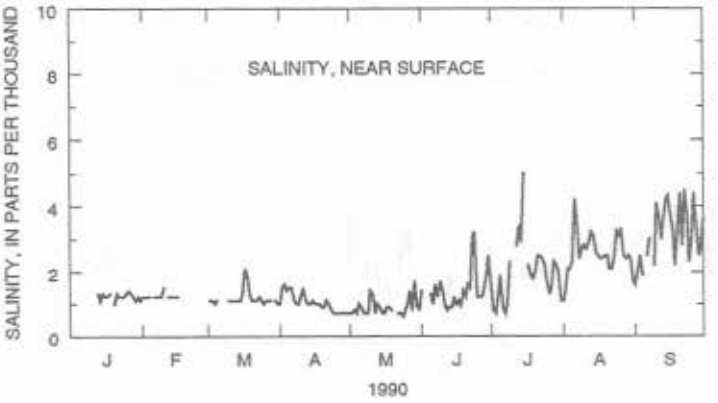
Salinity, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 6.5 ppt July 15, 1990; minimum value recorded, 0.3 ppt April 19, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1.2	---	1.0	0.7	1.4	1.5	1.1	1.6
2	---	1.2	1.1	1.5	.7	---	.8	1.4	2.0
3	---	1.2	1.1	1.6	.8	---	.7	2.1	2.5
4	---	1.2	1.0	1.4	.7	---	1.3	2.1	1.9
5	---	---	1.1	1.5	1.0	1.3	1.9	2.3	---
6	---	1.2	---	1.5	.9	1.0	.9	4.2	2.5
7	---	1.2	---	1.1	.7	1.6	.7	3.6	3.0
8	---	1.2	---	1.0	.7	1.2	1.0	2.4	---
9	---	1.2	---	1.0	.7	1.7	2.3	2.7	2.2
10	---	1.5	1.1	1.2	1.4	1.5	---	2.8	4.1
11	---	---	1.1	1.5	1.3	1.0	---	2.7	3.7
12	---	1.2	1.1	1.1	.7	.8	2.8	2.9	3.0
13	1.3	1.2	1.1	1.0	1.0	.9	3.4	3.2	3.6
14	1.1	1.2	1.1	1.0	.9	.9	2.9	3.1	4.2
15	1.3	1.2	1.1	1.1	.7	1.2	5.0	2.6	4.3
16	1.2	1.2	1.3	1.0	.7	1.0	---	2.5	3.7
17	1.2	---	2.1	1.0	.9	1.1	2.2	2.4	3.2
18	1.3	---	1.9	1.0	.9	.9	1.9	2.4	2.2
19	---	---	1.3	.9	.8	1.4	1.8	2.5	3.3
20	1.0	---	1.1	.9	---	1.2	2.0	2.5	4.4
21	1.3	---	1.1	1.1	---	1.6	2.5	2.1	2.8
22	1.2	---	1.1	1.0	.7	1.5	2.5	2.1	4.5
23	1.2	---	1.2	.8	.7	3.1	2.4	2.5	3.7
24	1.2	---	1.1	.7	.6	3.2	2.2	3.2	2.3
25	1.3	---	1.0	.7	.8	1.2	1.7	3.1	3.0
26	1.4	---	1.1	.7	1.0	1.2	1.3	3.3	4.4
27	1.3	---	1.1	.7	1.4	1.2	1.5	2.5	3.4
28	1.2	1.0	1.1	.7	.8	1.5	2.3	2.4	2.5
29	1.1	---	---	.7	1.7	2.0	2.2	2.5	2.7
30	1.2	---	1.1	.7	1.0	2.5	2.0	2.4	3.6
31	1.1	---	1.0	---	.8	---	1.1	1.7	---



DAILY MEAN SALINITY, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

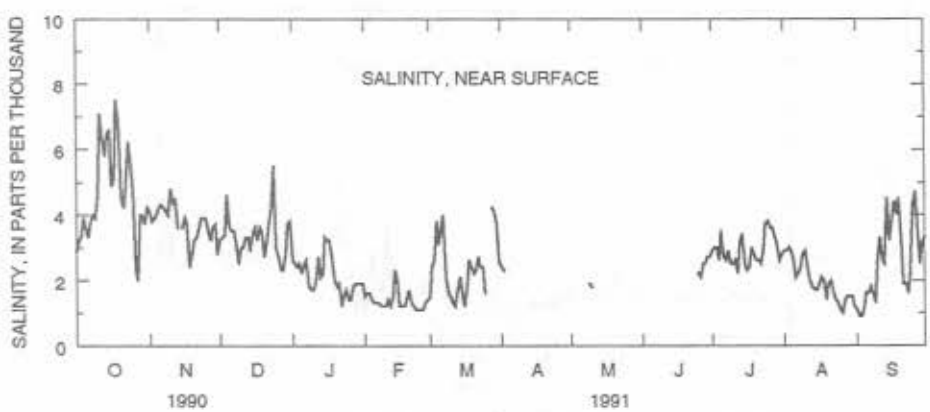
Salinity, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 9.3 ppt October 18, 1990; minimum value recorded, 0.5 ppt February 23, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	4.1	3.2	2.6	1.5	1.5	2.4	---	---	2.9	2.9	1.1
2	3.2	3.8	3.3	2.5	1.6	2.4	2.3	---	---	3.0	2.9	.9
3	3.3	3.9	3.4	2.4	1.6	2.6	---	---	---	3.0	3.0	.9
4	3.9	4.0	4.6	2.5	1.4	3.8	---	---	---	2.6	2.9	1.1
5	3.6	4.2	3.6	2.2	1.3	3.1	---	---	---	3.5	2.6	1.6
6	3.3	4.3	3.5	2.5	1.3	3.6	---	---	---	2.7	2.1	1.6
7	3.8	4.2	3.5	2.6	1.3	4.0	---	---	---	2.6	2.2	1.8
8	4.0	4.1	3.0	1.8	1.2	2.1	---	---	---	2.9	2.4	1.6
9	3.9	4.0	2.5	1.7	1.2	1.6	---	1.9	---	2.5	2.8	1.3
10	4.6	4.8	3.0	1.7	1.2	1.5	---	1.8	---	2.5	2.9	2.5
11	7.1	4.3	3.0	2.0	1.4	1.3	---	---	---	2.6	2.3	3.3
12	6.3	4.5	3.3	2.7	1.2	1.2	---	---	---	2.2	2.0	2.6
13	5.8	3.6	3.3	2.1	1.5	1.7	---	---	---	3.1	1.8	2.5
14	6.4	---	2.9	2.2	2.3	2.1	---	---	---	3.4	1.7	4.5
15	6.6	3.6	3.4	3.3	2.0	1.5	---	---	---	2.5	1.7	3.2
16	4.9	3.9	3.6	3.2	1.2	1.2	---	---	---	2.3	1.9	3.7
17	5.1	3.7	3.2	3.2	1.2	1.8	---	---	---	2.4	2.1	4.4
18	7.5	2.4	3.6	2.7	1.2	2.6	---	---	---	3.0	2.0	4.0
19	6.9	2.8	3.5	2.0	1.4	2.4	---	---	---	2.8	1.4	4.5
20	4.5	3.2	2.7	1.8	1.7	2.2	---	---	---	2.6	1.9	3.3
21	4.2	3.3	3.2	1.9	1.3	2.3	---	---	---	2.6	2.0	1.9
22	4.9	3.6	3.7	1.2	1.2	2.7	---	---	---	2.5	1.6	1.9
23	6.2	3.9	4.2	1.5	1.1	2.4	---	---	---	2.9	1.4	1.6
24	5.7	3.9	5.5	1.7	1.1	2.4	---	---	---	3.7	1.3	2.3
25	4.8	3.9	3.0	1.4	1.1	1.6	---	---	2.2	3.8	1.1	4.3
26	2.3	3.5	2.7	1.4	1.1	---	---	---	2.1	3.6	1.0	4.7
27	2.0	3.2	2.3	1.8	1.3	---	---	---	2.5	3.6	1.4	3.7
28	4.0	3.6	2.3	1.9	1.4	4.2	---	---	2.5	3.3	1.5	2.5
29	4.0	3.7	2.8	1.9	---	4.1	---	---	2.7	3.1	1.5	3.1
30	3.7	2.8	3.7	1.9	---	3.7	---	---	2.7	2.6	1.5	3.3
31	4.2	---	3.8	1.9	---	2.6	---	---	---	2.8	1.2	---



DAILY MEAN SALINITY, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

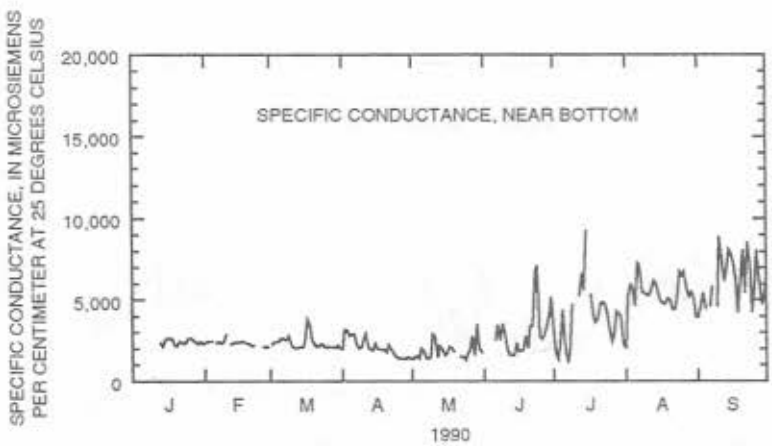
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 11,400 µS/cm July 15, 1990; minimum value recorded, 831 µS/cm July 3, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	2,390	---	1,980	1,360	---	3,120	2,080	3,930
2	---	2,430	2,290	3,170	1,450	---	1,710	5,260	4,580
3	---	2,450	2,440	3,110	1,550	---	1,340	5,900	5,420
4	---	2,470	2,430	2,810	1,400	---	2,720	5,760	4,480
5	---	---	2,510	2,900	1,980	---	4,390	4,660	---
6	---	2,380	2,670	2,880	1,840	2,560	2,040	7,340	4,670
7	---	2,410	2,560	2,250	1,450	3,480	1,160	7,120	5,780
8	---	2,350	2,540	2,010	1,410	2,550	1,740	5,490	---
9	---	2,410	2,760	2,070	1,460	3,540	4,680	5,440	4,650
10	---	2,850	2,210	2,450	2,830	3,100	---	5,280	8,910
11	---	---	2,070	2,890	2,700	1,990	---	5,270	7,640
12	---	2,320	2,040	2,150	1,480	1,610	5,290	5,690	6,190
13	2,340	2,350	2,080	1,950	2,130	1,620	6,670	6,170	6,770
14	2,140	2,440	2,090	1,920	1,970	1,590	5,610	5,930	8,100
15	2,580	2,380	2,110	2,280	1,590	2,350	9,260	5,220	7,910
16	2,640	2,410	2,430	2,020	1,670	1,850	---	4,900	7,330
17	2,620	2,470	3,780	1,970	2,110	1,860	5,330	4,770	6,070
18	2,610	2,360	3,460	1,930	2,010	1,890	4,020	4,760	4,210
19	2,240	2,350	2,540	1,930	1,820	2,770	3,650	5,080	6,210
20	2,160	2,320	2,270	1,800	---	2,040	3,870	4,980	8,080
21	2,470	2,190	2,130	2,230	---	3,410	4,760	4,470	5,420
22	2,380	2,220	2,180	1,940	1,500	3,420	4,850	4,430	8,520
23	2,350	---	2,290	1,720	1,500	6,630	4,720	5,230	7,280
24	2,430	2,420	2,140	1,510	1,330	7,110	4,100	6,720	4,250
25	2,640	---	2,060	1,420	1,670	2,780	3,260	6,490	5,780
26	2,650	2,090	2,150	1,400	1,960	2,620	2,450	6,730	8,080
27	2,480	2,150	2,110	1,390	2,790	2,820	2,770	5,710	6,320
28	2,440	2,100	2,100	1,360	1,590	3,410	4,250	5,190	4,740
29	2,290	---	2,070	1,470	3,530	4,080	4,090	5,460	5,010
30	2,400	---	2,190	1,410	1,990	5,150	3,950	5,120	6,550
31	2,300	---	2,020	---	1,800	---	2,180	3,930	---



DAILY MEAN SPECIFIC CONDUCTANCE, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

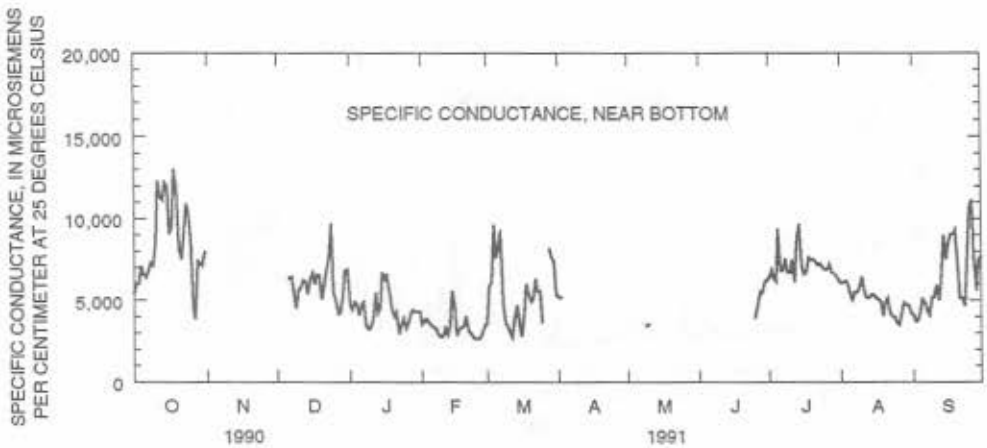
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 15,700 µS/cm October 18, 1990; minimum value recorded, 2,460 µS/cm February 24, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5,420	---	---	4,770	3,550	3,610	5,200	---	---	6,370	6,060	4,110
2	6,010	---	---	4,430	3,770	5,850	5,180	---	---	6,830	6,090	3,700
3	6,040	---	---	4,870	3,870	6,120	---	---	---	6,340	6,170	3,790
4	7,090	---	---	4,780	3,620	9,610	---	---	---	6,130	5,940	4,330
5	6,560	---	---	4,100	3,440	7,620	---	---	---	9,370	5,320	5,060
6	6,380	---	6,340	4,730	3,340	8,230	---	---	---	6,820	5,010	4,830
7	6,790	---	6,410	4,910	3,220	9,290	---	---	---	6,800	5,500	4,280
8	7,270	---	5,360	3,350	2,920	4,760	---	---	---	7,540	5,460	4,110
9	7,120	---	4,510	3,250	2,770	3,610	---	3,450	---	6,680	5,810	5,160
10	8,480	---	5,590	3,340	2,810	3,400	---	3,520	---	6,680	6,440	5,160
11	12,300	---	5,750	3,850	3,280	3,000	---	---	---	7,470	5,430	5,910
12	11,300	---	6,220	5,450	2,890	2,730	---	---	---	6,150	5,150	5,010
13	11,100	---	6,110	4,230	3,500	3,920	---	---	---	8,500	5,180	6,150
14	12,200	---	5,370	4,530	5,570	4,700	---	---	---	9,640	5,360	8,960
15	11,900	---	6,290	6,690	4,740	3,430	---	---	---	7,200	5,300	7,530
16	9,100	---	6,630	6,270	2,840	2,810	---	---	---	6,600	5,160	8,400
17	9,450	---	6,000	6,490	3,250	4,160	---	---	---	6,680	5,040	9,030
18	13,000	---	6,570	5,580	3,340	5,990	---	---	---	7,610	4,960	9,060
19	11,900	---	6,520	4,450	3,400	5,340	---	---	---	7,460	4,060	9,290
20	8,170	---	5,080	4,040	4,040	4,920	---	---	---	7,510	4,850	7,110
21	7,510	---	5,990	4,260	3,080	5,130	---	---	---	7,320	5,100	5,120
22	8,830	---	6,780	2,970	3,000	6,290	---	---	---	7,170	4,200	5,120
23	10,900	---	7,560	3,410	2,720	5,530	---	---	---	7,250	4,040	4,640
24	10,400	---	9,680	3,860	2,630	5,540	---	---	---	6,990	3,970	7,070
25	8,830	---	5,460	3,280	2,630	3,660	---	---	3,970	6,880	3,680	10,700
26	4,490	---	4,920	3,510	2,680	---	---	---	4,680	6,910	3,500	11,100
27	3,880	---	4,180	4,140	3,010	---	---	---	5,500	7,210	4,270	7,680
28	7,350	---	4,320	4,360	3,420	8,150	---	---	5,450	6,680	4,860	5,610
29	7,240	---	5,380	4,300	---	7,640	---	---	6,110	6,650	4,730	7,440
30	7,120	---	6,820	4,320	---	7,330	---	---	6,220	6,450	4,650	7,670
31	7,970	---	6,870	4,300	---	5,370	---	---	---	6,180	4,210	---



DAILY MEAN SPECIFIC CONDUCTANCE, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

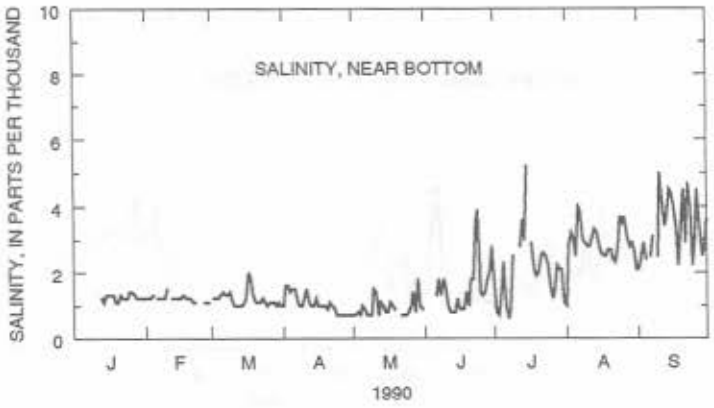
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 6.4 ppt July 15, 1990; minimum value recorded, 0.4 ppt July 3, 7, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1.2	---	1.0	0.7	---	1.6	1.0	2.1
2	---	1.2	1.2	1.6	.7	---	.8	2.8	2.4
3	---	1.2	1.2	1.6	.8	---	.7	3.2	2.9
4	---	1.3	1.2	1.4	.7	---	1.4	3.1	2.4
5	---	---	1.3	1.5	1.0	---	2.3	2.5	---
6	---	1.2	1.4	1.5	.9	1.3	1.0	4.0	2.5
7	---	1.2	1.3	1.1	.7	1.8	.6	3.9	3.1
8	---	1.2	1.3	1.0	.7	1.3	.9	3.0	---
9	---	1.2	1.4	1.0	.7	1.8	2.5	2.9	2.5
10	---	1.5	1.1	1.2	1.5	1.6	---	2.8	5.0
11	---	---	1.0	1.5	1.4	1.0	---	2.8	4.2
12	---	1.2	1.0	1.1	.7	.8	2.8	3.1	3.4
13	1.2	1.2	1.0	1.0	1.1	.8	3.6	3.3	3.7
14	1.1	1.2	1.0	1.0	1.0	.8	3.0	3.2	4.5
15	1.3	1.2	1.1	1.2	.8	1.2	5.2	2.8	4.4
16	1.3	1.2	1.2	1.0	.8	.9	---	2.6	4.0
17	1.3	1.3	2.0	1.0	1.1	.9	2.9	2.5	3.3
18	1.3	1.2	1.8	1.0	1.0	.9	2.1	2.5	2.2
19	1.1	1.2	1.3	1.0	.9	1.4	1.9	2.7	3.4
20	1.1	1.2	1.1	.9	---	1.0	2.0	2.7	4.5
21	1.3	1.1	1.1	1.1	---	1.8	2.5	2.4	2.9
22	1.2	1.1	1.1	1.0	.7	1.8	2.6	2.3	4.7
23	1.2	---	1.2	.9	.7	3.6	2.5	2.8	4.0
24	1.2	1.2	1.1	.7	.7	3.9	2.2	3.7	2.2
25	1.4	---	1.0	.7	.8	1.4	1.7	3.5	3.1
26	1.4	1.1	1.1	.7	1.0	1.3	1.2	3.7	4.5
27	1.3	1.1	1.1	.7	1.4	1.4	1.4	3.1	3.4
28	1.2	1.1	1.1	.7	.8	1.8	2.2	2.8	2.5
29	1.2	---	1.0	.7	1.8	2.1	2.1	2.9	2.7
30	1.2	---	1.1	.7	1.0	2.8	2.1	2.7	3.6
31	1.2	---	1.0	---	.9	---	1.1	2.1	---



DAILY MEAN SALINITY, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

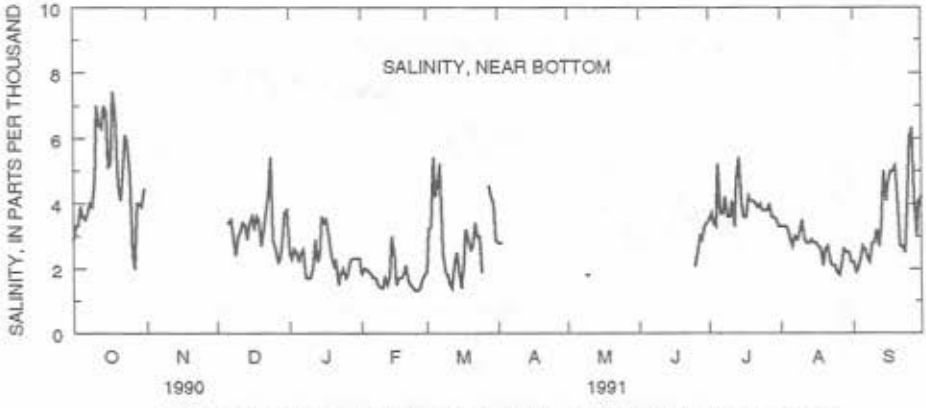
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 9.1 ppt October 18, 1990; minimum value recorded, 1.2 ppt February 24, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	---	---	2.5	1.8	1.9	2.8	---	---	3.5	3.3	2.2
2	3.3	---	---	2.3	2.0	3.2	2.8	---	---	3.7	3.3	1.9
3	3.3	---	---	2.6	2.0	3.3	---	---	---	3.4	3.3	2.0
4	3.9	---	---	2.5	1.9	5.4	---	---	---	3.3	3.2	2.3
5	3.6	---	---	2.2	1.8	4.2	---	---	---	5.2	2.9	2.7
6	3.5	---	3.4	2.5	1.7	4.6	---	---	---	3.7	2.7	2.6
7	3.7	---	3.5	2.6	1.7	5.2	---	---	---	3.7	3.0	2.3
8	4.0	---	2.9	1.7	1.5	2.5	---	---	---	4.2	2.9	2.2
9	3.9	---	2.4	1.7	1.4	1.9	---	1.8	---	3.6	3.1	2.8
10	4.7	---	3.0	1.7	1.4	1.8	---	1.8	---	3.6	3.5	2.8
11	7.0	---	3.1	2.0	1.7	1.5	---	---	---	4.1	2.9	3.2
12	6.4	---	3.4	2.9	1.5	1.4	---	---	---	3.3	2.8	2.7
13	6.3	---	3.3	2.2	1.8	2.1	---	---	---	4.7	2.8	3.3
14	7.0	---	2.9	2.4	3.0	2.5	---	---	---	5.4	2.9	5.0
15	6.8	---	3.4	3.6	2.5	1.8	---	---	---	4.0	2.8	4.1
16	5.1	---	3.6	3.4	1.5	1.4	---	---	---	3.6	2.8	4.7
17	5.3	---	3.2	3.5	1.7	2.2	---	---	---	3.6	2.7	5.0
18	7.4	---	3.6	3.0	1.7	3.2	---	---	---	4.2	2.6	5.0
19	6.8	---	3.5	2.4	1.8	2.9	---	---	---	4.1	2.1	5.2
20	4.5	---	2.7	2.1	2.1	2.6	---	---	---	4.1	2.6	3.9
21	4.1	---	3.2	2.2	1.6	2.7	---	---	---	4.0	2.7	2.7
22	4.9	---	3.7	1.5	1.5	3.4	---	---	---	3.9	2.2	2.7
23	6.1	---	4.2	1.8	1.4	3.0	---	---	---	4.0	2.1	2.5
24	5.9	---	5.4	2.0	1.3	3.0	---	---	---	3.8	2.1	3.9
25	4.9	---	2.9	1.7	1.3	1.9	---	---	2.1	3.8	1.9	6.0
26	2.4	---	2.6	1.8	1.4	---	---	---	2.5	3.8	1.8	6.3
27	2.0	---	2.2	2.2	1.6	---	---	---	3.0	4.0	2.2	4.2
28	4.0	---	2.3	2.3	1.8	4.5	---	---	2.9	3.6	2.6	3.0
29	4.0	---	2.9	2.3	---	4.2	---	---	3.3	3.6	2.5	4.1
30	3.9	---	3.7	2.3	---	4.0	---	---	3.4	3.5	2.5	4.2
31	4.4	---	3.8	2.3	---	2.9	---	---	---	3.3	2.2	---



DAILY MEAN SALINITY, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

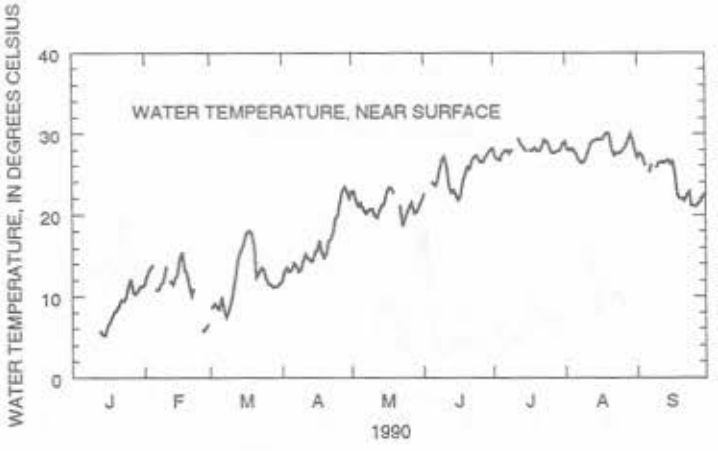
Water Temperature, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 31.7 °C August 15, 1990; minimum value recorded, 4.6 °C January 15, 1990.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	11.6	---	12.0	22.8	22.4	28.1	29.0	27.0
2	---	12.5	8.6	13.1	22.8	---	27.0	28.0	27.5
3	---	13.2	9.1	13.5	21.5	---	26.8	27.9	27.2
4	---	13.8	8.5	13.1	21.0	---	26.6	28.1	26.1
5	---	---	8.4	13.2	21.4	23.8	27.4	27.8	---
6	---	10.8	9.9	14.1	20.7	23.4	27.8	27.3	25.2
7	---	10.9	8.1	13.7	20.1	24.0	27.9	26.6	26.1
8	---	11.6	7.4	13.1	20.4	25.4	27.5	26.3	---
9	---	11.8	8.2	13.3	20.7	26.7	27.9	26.5	25.8
10	---	13.6	9.3	14.2	20.7	27.1	---	26.9	26.3
11	---	---	10.7	15.2	19.9	25.9	---	27.8	26.5
12	---	11.8	12.6	14.7	19.6	23.3	29.3	28.8	26.3
13	5.6	11.4	14.4	14.4	20.4	22.6	28.6	29.0	26.5
14	5.2	12.2	15.5	14.3	21.0	22.9	28.3	29.2	26.7
15	5.2	12.8	16.2	15.4	21.3	22.2	27.9	29.3	26.2
16	6.3	14.5	17.1	15.7	22.3	21.8	---	29.2	26.5
17	6.7	15.5	17.9	16.8	23.2	22.2	27.9	29.3	24.8
18	7.4	13.3	18.0	15.5	23.1	23.9	27.9	29.7	22.5
19	8.0	12.9	17.6	14.8	22.7	24.9	28.2	30.1	21.9
20	8.3	11.5	16.1	15.4	---	25.8	27.8	29.9	21.9
21	8.9	10.1	12.4	16.7	---	25.5	27.8	28.3	21.7
22	9.5	10.8	12.8	17.1	21.0	26.6	28.2	27.3	22.3
23	9.4	---	13.5	17.9	18.6	27.1	29.2	27.6	22.7
24	9.9	12.6	13.2	19.4	19.6	27.3	29.0	27.5	21.1
25	11.1	---	12.2	19.9	20.3	26.6	28.6	27.7	21.1
26	12.1	5.8	11.6	21.2	20.9	26.4	27.7	28.0	21.0
27	10.5	6.0	11.5	22.8	21.4	26.5	27.6	28.4	21.4
28	10.2	6.4	11.1	23.3	20.2	27.2	27.7	29.2	21.7
29	10.6	---	11.2	22.6	20.4	27.7	27.8	29.9	22.2
30	11.3	---	11.3	22.0	20.8	28.0	28.0	29.2	22.5
31	11.2	---	11.6	---	21.5	---	28.7	27.8	---



DAILY MEAN WATER TEMPERATURE, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

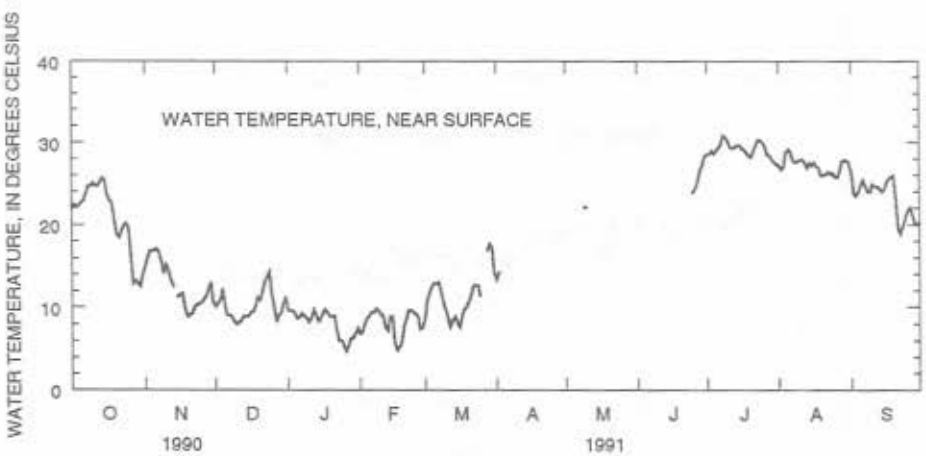
Water Temperature, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 32.5 °C July 8, 1991; minimum value recorded, 4.2 °C January 26, February 17, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22.2	15.0	10.1	9.6	6.8	8.7	13.4	---	---	28.5	27.1	26.3
2	22.4	16.0	10.4	9.5	7.0	10.7	14.2	---	---	28.5	26.7	23.6
3	22.1	16.8	10.9	9.5	8.0	11.8	---	---	---	28.9	27.0	23.4
4	22.3	16.8	12.2	9.2	8.6	12.5	---	---	---	28.6	28.7	24.0
5	22.6	16.9	10.1	8.6	9.0	12.9	---	---	---	28.9	29.1	24.7
6	22.9	17.1	9.0	8.8	9.4	12.8	---	---	---	29.3	28.8	25.3
7	23.7	16.5	9.1	9.2	9.4	13.0	---	---	---	29.8	27.8	24.6
8	24.7	15.4	8.7	8.8	9.8	11.9	---	---	---	30.8	27.5	24.0
9	24.7	14.1	8.3	8.7	9.5	10.3	---	22.1	---	30.6	27.6	23.9
10	25.0	15.1	8.0	8.2	9.1	9.7	---	22.1	---	30.1	27.8	24.8
11	24.7	14.2	8.1	8.6	8.8	8.5	---	---	---	29.4	27.8	24.6
12	24.7	13.2	8.4	9.7	7.6	7.7	---	---	---	29.2	27.6	24.6
13	25.2	12.5	8.9	9.1	7.2	8.4	---	---	---	29.3	26.9	24.4
14	25.6	---	8.8	8.3	8.8	8.8	---	---	---	29.6	27.4	24.0
15	25.2	11.3	8.8	8.5	8.8	8.0	---	---	---	29.6	27.1	24.3
16	23.6	11.6	9.4	9.2	5.8	7.7	---	---	---	29.2	27.5	25.0
17	22.8	11.7	9.4	9.7	4.8	9.0	---	---	---	29.1	27.0	25.5
18	22.7	9.8	10.0	9.3	5.3	9.7	---	---	---	28.7	26.9	25.8
19	20.7	8.8	11.1	8.8	5.8	10.1	---	---	---	28.4	25.9	25.9
20	18.7	9.1	10.8	8.8	7.8	10.7	---	---	---	28.1	26.0	22.8
21	18.5	9.2	11.8	8.9	8.7	11.5	---	---	---	29.0	26.0	19.5
22	19.2	10.0	12.9	7.1	9.6	12.6	---	---	---	29.5	26.4	18.9
23	19.9	10.2	13.6	6.0	9.6	12.6	---	---	---	30.3	26.1	20.0
24	20.1	10.4	14.2	6.0	9.2	12.6	---	---	---	30.3	26.2	20.7
25	19.6	10.5	11.8	5.3	9.2	11.4	---	---	23.9	29.9	25.8	21.6
26	15.8	10.9	10.0	4.7	8.7	---	---	---	24.4	29.4	25.7	22.0
27	12.8	11.4	8.2	5.4	7.4	---	---	---	25.3	28.5	26.4	21.2
28	13.2	12.1	8.9	6.2	7.6	16.9	---	---	26.5	28.4	27.5	20.1
29	12.8	13.0	9.3	6.3	---	17.6	---	---	27.2	27.9	27.8	20.0
30	12.5	10.6	10.2	6.9	---	17.2	---	---	28.2	27.5	27.7	20.2
31	14.0	---	11.2	7.5	---	14.3	---	---	---	27.3	27.4	---



DAILY MEAN WATER TEMPERATURE, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

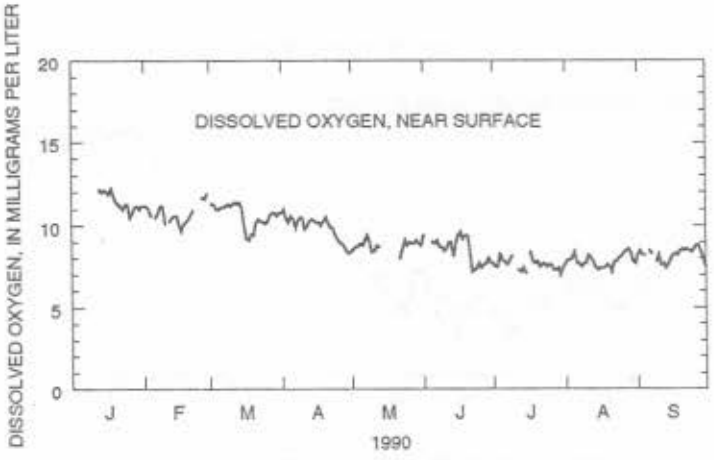
Dissolved Oxygen, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.6 mg/L January 17, 1990; minimum value recorded, 3.0 mg/L July 30, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	11.2	---	10.8	8.5	9.4	7.7	7.7	8.2
2	---	11.2	11.3	11.0	8.6	---	7.5	7.9	8.5
3	---	11.0	11.3	10.4	8.7	---	7.5	7.9	8.2
4	---	10.6	11.0	10.2	8.8	---	8.3	8.0	8.2
5	---	---	11.0	10.6	8.9	9.0	7.9	8.4	---
6	---	10.5	11.1	10.4	8.8	8.9	7.8	7.7	8.5
7	---	10.8	11.1	9.9	9.2	9.1	7.6	7.7	8.3
8	---	11.2	11.2	10.3	9.4	8.7	7.8	7.5	---
9	---	11.2	11.3	10.5	8.9	8.7	8.1	7.7	7.8
10	---	10.1	11.2	10.5	8.4	8.5	---	7.7	8.2
11	---	---	11.3	9.8	8.5	8.6	---	8.2	7.6
12	---	10.3	11.4	10.0	8.8	9.0	7.3	8.0	7.7
13	12.1	10.5	11.3	10.3	8.7	9.0	7.2	7.8	7.4
14	12.0	10.6	11.4	10.4	---	8.1	7.4	7.4	7.6
15	12.1	10.6	11.0	10.3	---	9.0	7.1	7.3	7.9
16	12.0	10.1	10.0	10.2	---	9.4	---	7.4	8.2
17	11.9	9.7	9.2	10.2	---	9.6	8.4	7.4	8.3
18	12.2	10.1	9.1	10.0	---	9.2	7.8	7.4	8.2
19	11.8	10.2	9.5	10.3	---	9.4	7.7	7.6	8.5
20	11.4	10.4	9.4	10.5	---	9.4	7.8	7.5	8.6
21	11.3	10.7	10.1	10.2	---	8.7	7.5	7.2	8.5
22	11.2	10.9	10.4	9.9	8.0	7.2	7.6	7.8	8.6
23	11.0	---	10.3	9.9	8.6	7.3	7.7	7.8	8.5
24	11.3	10.1	10.2	9.5	9.1	7.4	7.5	8.0	8.4
25	11.3	---	10.1	9.2	8.8	7.7	7.6	8.1	8.6
26	10.5	11.7	10.3	9.0	9.0	7.4	7.6	8.3	8.8
27	10.8	11.6	10.6	8.9	8.9	7.6	7.3	8.5	8.8
28	11.1	11.9	10.8	8.7	8.9	7.7	7.3	8.6	8.4
29	11.2	---	10.8	8.4	9.1	8.0	7.4	8.3	8.0
30	11.0	---	10.6	8.3	8.9	7.7	7.0b	7.8	7.5
31	11.2	---	10.8	---	8.8	---	7.4	7.7	---



DAILY MEAN DISSOLVED OXYGEN, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

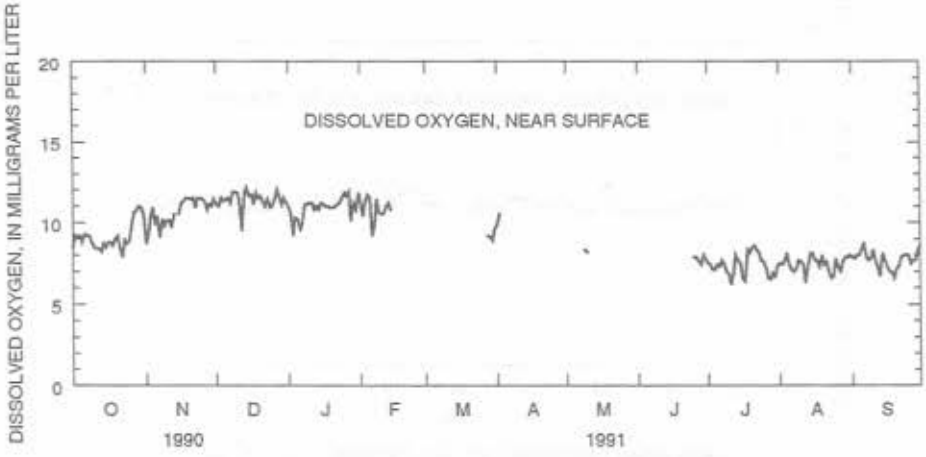
Dissolved Oxygen, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.8 mg/L February 5, 1991; minimum value recorded, 2.7 mg/L December 12, 1990, July 17, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5	8.7	11.1	10.9	11.3	---	9.9	---	---	7.5	7.5	7.9
2	9.2	9.2b	11.0	10.6	10.4	---	10.5	---	---	7.4	7.4	7.8
3	9.1	10.4	11.5	9.2	11.2	---	---	---	---	7.1	7.7	8.0
4	9.2	10.9	11.3	10.3	11.7	---	---	---	---	7.1	8.1	8.0
5	8.8	9.9	11.4	10.2	11.5	---	---	---	---	7.4	7.4	8.3
6	9.3	10.4	11.5	9.6	9.2	---	---	---	---	7.3	7.1	8.8
7	9.2	9.1	11.2	9.9	9.8b	---	---	---	---	7.7	7.0	7.9
8	9.2	10.2	11.9	11.1	11.4	---	---	---	---	7.5	7.2	7.7
9	8.8	9.8	11.9	11.1	10.6	---	---	8.3	---	7.0b	7.7	7.8
10	8.5	10.1	11.8	11.2	10.5	---	---	8.2	---	6.8	7.6	8.3
11	8.4	10.1	11.3	11.2	10.5	---	---	---	---	6.2b	7.4	7.7
12	8.4	9.7	9.5b	10.8	11.0	---	---	---	---	6.9	6.3b	7.2
13	8.2	10.5	11.8	11.0	11.2	---	---	---	---	8.0	7.3	6.7b
14	8.7	---	12.1	10.8	10.8	---	---	---	---	7.7	8.1	8.1
15	8.5	10.5	11.6	11.2	---	---	---	---	---	7.5	8.1	7.7
16	8.8	11.2	11.7	11.1	---	---	---	---	---	6.6b	7.7	7.3
17	8.8	11.3	11.1	11.0	---	---	---	---	---	6.4b	7.7	7.0
18	8.6	11.5	11.8	11.0	---	---	---	---	---	8.3	7.3	6.9
19	9.0	11.5	11.5	10.9	---	---	---	---	---	8.1	8.0	6.6
20	9.2	11.4	11.6	10.9	---	---	---	---	---	8.5	7.4	7.2
21	8.3	11.5	11.2	11.0	---	---	---	---	---	8.6	7.6	7.3
22	7.9	10.9	11.0	11.1	---	---	---	---	---	8.3	6.9	7.9
23	8.9	11.5	11.4	11.2	---	---	---	---	---	8.1	6.6b	8.0
24	8.7	11.5	10.9	11.5	---	---	---	---	---	7.7	6.7	8.0
25	8.9	11.4	11.0	11.8	---	---	---	---	7.9	7.6	7.8	8.0
26	10.0	11.3	11.4	11.6	---	---	---	---	7.9	7.2	7.3	7.5
27	10.6	10.8	12.0	11.9	---	---	---	---	7.6	6.6	7.0	7.7
28	10.8	11.1	11.6	10.1	---	9.2	---	---	7.4	6.5b	7.6	7.7
29	11.0	11.0	11.1	11.2	---	9.1	---	---	8.0	6.9	7.9	8.2
30	10.9	11.4	11.5	10.8	---	8.9	---	---	7.8	6.7	7.9	8.6
31	10.5	---	11.2	11.8	---	9.6	---	---	---	7.4	8.0	---



DAILY MEAN DISSOLVED OXYGEN, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--**Continued**

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

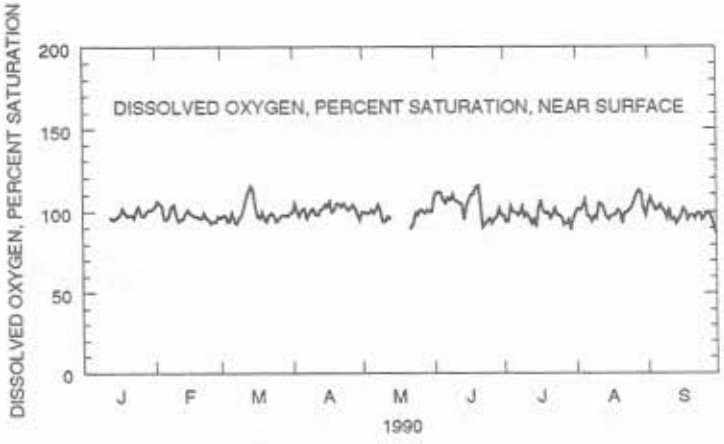
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 136 percent June 18, 1990; minimum value recorded, 38 percent July 30, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	103	---	100	100	109	98	100	104
2	---	106	97	105	100	---	94	102	108
3	---	105	98	100	99	---	94	101	104
4	---	103	94	97	99	---	103	103	101
5	---	---	94	101	101	107	100	107	---
6	---	95	99	102	99	105	100	97	104
7	---	98	94	96	102	108	98	97	102
8	---	103	93	98	104	107	99	94	---
9	---	104	96	101	100	110	103	97	96
10	---	98	98	102	94	107	---	96	102
11	---	---	102	98	94	106	---	105	95
12	---	95	108	98	97	105	96	104	96
13	96	96	111	101	96	105	93	102	93
14	95	99	115	102	---	95	95	97	95
15	96	101	112	104	---	104	91	95	97
16	97	99	104	103	---	107	---	97	102
17	98	98	97	106	---	110	107	98	100
18	102	97	96	100	---	110	100	98	95
19	100	97	100	101	---	114	99	101	98
20	97	96	95	105	---	115	100	100	98
21	98	96	94	105	---	107	96	93	96
22	98	99	98	103	90	91	98	99	99
23	96	---	99	105	93	93	102	100	99
24	101	95	97	103	99	94	98	101	95
25	103	---	94	101	98	96	98	103	97
26	98	94	95	102	101	93	96	106	99
27	97	94	97	104	101	95	92	110	100
28	99	97	98	102	99	97	93	112	96
29	101	---	98	98	101	102	95	110	92
30	101	---	97	95	100	98	89	102	87
31	102	---	99	---	100	---	96	98	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--**Continued**

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

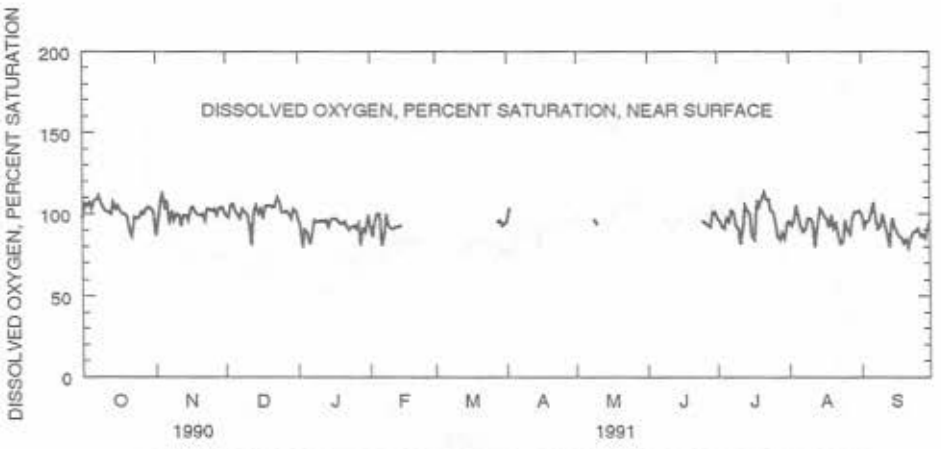
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--7 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 128 percent September 10, 1991; minimum value recorded, 23 percent December 12, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	98	87	99	96	93	---	95	---	---	97	95	99
2	106	94	98	93	86	---	103	---	---	95	93	92
3	105	107	105	80	95	---	---	---	---	92	97	95
4	107	113	106	90	100	---	---	---	---	91	105	96
5	103	103	102	88	100	---	---	---	---	97	97	100
6	108	108	100	82	81	---	---	---	---	95	92	107
7	109	94	97	86	86	---	---	---	---	102	89	96
8	111	102	103	96	100	---	---	---	---	101	91	91
9	106	96	101	95	93	---	---	96	---	93	97	93
10	103	100	100	95	91	---	---	94	---	91	97	100
11	102	99	96	96	91	---	---	---	---	82	94	93
12	101	93	81	95	92	---	---	---	---	91	80	87
13	100	99	102	96	92	---	---	---	---	105	92	80
14	107	---	105	92	93	---	---	---	---	102	103	97
15	103	96	100	96	---	---	---	---	---	99	102	92
16	105	103	103	97	---	---	---	---	---	86	98	89
17	102	104	97	97	---	---	---	---	---	84	97	86
18	100	101	105	96	---	---	---	---	---	108	92	85
19	100	99	105	94	---	---	---	---	---	104	99	82
20	98	99	105	94	---	---	---	---	---	109	91	84
21	89	100	104	95	---	---	---	---	---	113	94	80
22	86	96	104	92	---	---	---	---	---	109	86	85
23	98	103	110	90	---	---	---	---	---	109	82	89
24	97	103	107	92	---	---	---	---	---	102	83	89
25	98	102	101	93	---	---	---	---	95	101	96	91
26	101	103	101	91	---	---	---	---	94	94	90	86
27	100	99	102	94	---	---	---	---	93	86	87	87
28	103	103	100	81	---	95	---	---	92	84	97	85
29	104	104	97	91	---	96	---	---	101	88	101	90
30	103	103	103	89	---	93	---	---	101	85	101	95
31	102	---	102	99	---	94	---	---	---	94	102	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

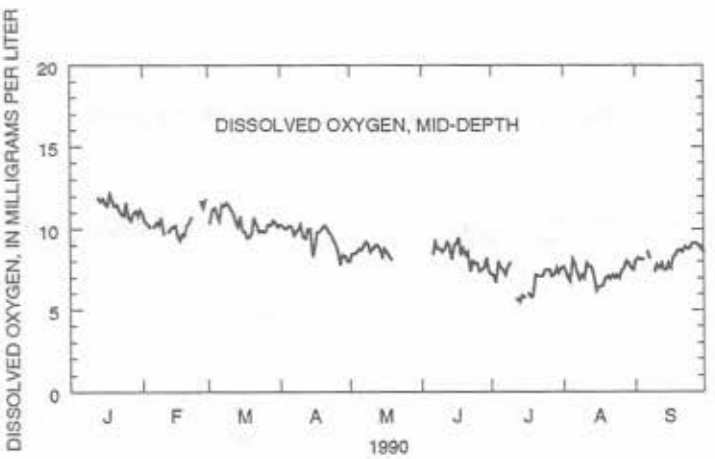
Dissolved Oxygen, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.4 mg/L January 17, 1990; minimum value recorded, 2.9 mg/L July 17, 19, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.9	---	10.3	8.0	---	7.2	7.7	8.0
2	---	10.5	10.4	10.2	8.5	---	7.2	7.4	8.2
3	---	10.3	11.2	10.0	8.5	---	6.7b	7.0	8.1
4	---	10.1	11.3	10.0	8.6	---	8.0	6.8b	8.1
5	---	---	10.9	10.2	8.8	---	7.7	8.1	---
6	---	10.1	10.5	10.1	8.7	8.5	7.5	7.8	8.6
7	---	10.4	11.5	9.6	9.0	9.2	7.2b	7.3	8.2
8	---	10.2	11.4	9.8	9.2	8.8	7.6	6.9	---
9	---	10.7	11.6	10.0	9.0	8.8	7.9	7.2	7.4
10	---	9.7	11.4	10.3	8.6	8.6	---	7.0	7.8
11	---	---	11.2	9.5	8.8	8.8	---	7.9	7.6
12	---	9.8	10.9	9.4	9.0	9.2	5.7	7.7	7.9
13	11.9	10.0	10.5	10.0	9.0	9.0	5.5b	7.7	7.5
14	11.7	10.1	10.1	10.0	8.8	8.1	5.9	7.2	7.5
15	11.9	10.2	10.8	8.3	8.3	9.0	5.8	6.2b	7.9
16	11.5	9.7	9.9	8.8	8.8	9.1	---	6.4	7.6
17	11.4	9.3	9.8	9.8	8.6	9.5	6.0b	6.5b	8.3
18	12.1	9.7	9.4	9.8	8.3	8.4	5.8b	6.5	8.4
19	11.8	9.6	9.5	10.0	8.1	8.8	5.9b	7.0	8.7
20	11.4	10.2	9.8	10.2	---	8.4	7.2	7.1	8.7
21	11.5	10.4	10.7	10.1	---	8.6	7.1	6.9	8.6
22	11.2	10.7	10.3	9.8	---	7.4b	7.1	7.2	8.9
23	10.9	---	9.8	9.6	---	8.0	7.1	7.0	8.8
24	10.8	9.9	9.9	9.3	---	7.9	7.5	7.2	8.8
25	11.6	---	9.8	9.0	---	7.9	7.5	7.0	9.1
26	10.7	11.7	9.9	8.7	---	7.4	7.5	7.4	9.1
27	10.5	11.3	10.3	7.8	---	7.5b	7.1	7.6	9.1
28	10.9	11.8	10.2	8.4	---	7.7	7.2	8.0	8.9
29	11.1	---	10.5	8.3	---	8.2	7.6	7.9	8.8
30	10.8	---	10.4	8.0	---	7.4	7.3	7.6	8.6
31	11.2	---	10.1	---	---	---	7.6	7.5	---



DAILY MEAN DISSOLVED OXYGEN, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

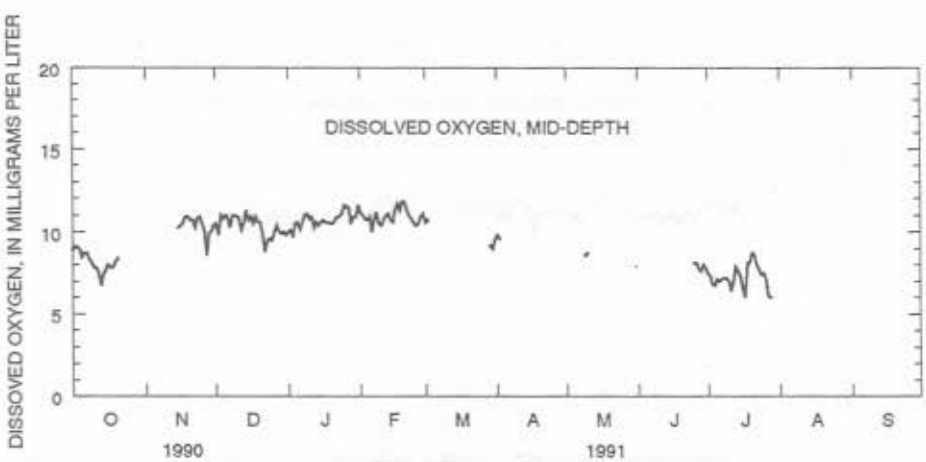
Dissolved Oxygen, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.6 mg/L February 19, 1991; minimum value recorded, 2.8 mg/L July 17, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.9	---	10.5	10.0	11.2	10.6	9.8	---	---	7.5	---	---
2	9.1	---	9.8	10.1	11.0	10.7	9.6	---	---	7.3	---	---
3	9.1	---	11.0	9.7	10.8	---	---	---	---	6.8	---	---
4	8.9	---	10.8	10.5	10.7	---	---	---	---	6.7	---	---
5	8.5	---	11.0	10.6	10.9	---	---	---	---	7.1	---	---
6	8.7	---	10.9	10.1	10.0	---	---	---	---	7.0	---	---
7	8.7	---	10.3	10.5	10.8	---	---	---	---	7.2	---	---
8	8.4	---	11.0	11.0	11.2	---	---	---	---	7.2	---	---
9	8.1	---	11.0	11.1	10.5	---	---	8.6	---	7.2	---	---
10	7.8	---	10.9	10.8	10.4	---	---	8.7	---	7.0	---	---
11	7.8	---	10.8	10.9	10.7	---	---	---	---	6.4b	---	---
12	7.5	---	10.1	10.3	11.0	---	---	---	---	7.0	---	---
13	6.7	---	10.6	10.6	11.1	---	---	---	---	7.9	---	---
14	7.4	---	11.3	10.4	10.7	---	---	---	---	7.6	---	---
15	7.7	10.3	10.7	10.6	10.6	---	---	---	---	7.3	---	---
16	8.0	10.4	10.9	10.7	11.3	---	---	---	---	6.6b	---	---
17	7.8	10.6	10.5	10.6	11.7	---	---	---	---	6.0b	---	---
18	7.8	10.9	10.9	10.6	11.3	---	---	---	---	8.1	---	---
19	8.1	10.9	10.6	10.5	11.8	---	---	---	---	8.1	---	---
20	8.4	10.7	10.6	10.5	11.8	---	---	---	---	8.7	---	---
21	---	10.7	9.8	10.7	11.3	---	---	---	---	8.6	---	---
22	---	10.3	8.8	10.9	11.0	---	---	---	---	8.0	---	---
23	---	10.8	9.5	10.9	10.8	---	---	---	---	7.7	---	---
24	---	10.9	9.6	11.1	10.5	---	---	---	---	7.4	---	---
25	---	10.6	9.5	11.6	10.4	---	---	---	8.1	7.5	---	---
26	---	10.1	10.0	11.5	10.5	---	---	---	8.1	7.1	---	---
27	---	8.6	10.4	11.5	10.9	---	---	---	7.7	6.1	---	---
28	---	9.9	10.0	10.5	11.1	---	---	---	7.6	6.0	---	---
29	---	10.0	9.9	10.9	---	9.2	---	---	8.0	---	---	---
30	---	10.4	10.0	10.9	---	9.0	---	---	7.8	---	---	---
31	---	---	9.8	11.6	---	9.5	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

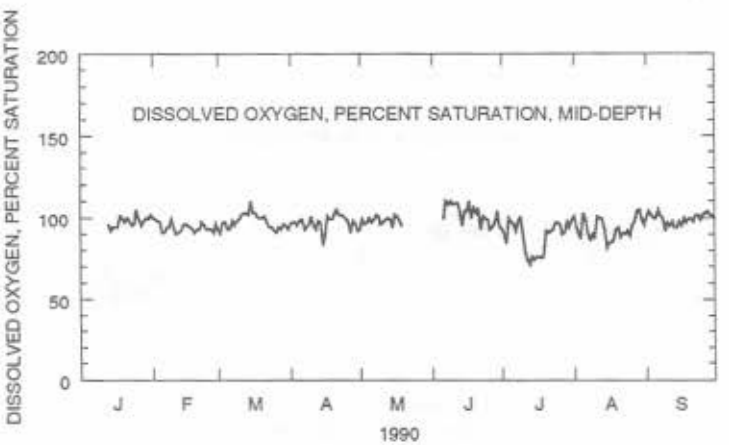
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 124 percent March 14, June 17, August 27, September 2, 1990; minimum value recorded, 37 percent July 17, 19, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	100	---	96	93	---	93	101	100
2	---	99	90	97	99	---	91	95	104
3	---	98	97	97	96	---	84	90	102
4	---	97	97	95	97	---	100	87	100
5	---	---	93	98	100	---	98	103	---
6	---	91	93	99	97	100	96	99	105
7	---	94	98	93	99	110	92	91	102
8	---	94	95	94	102	108	97	86	---
9	---	99	98	96	101	110	101	90	92
10	---	93	99	101	96	108	---	88	97
11	---	---	102	95	97	109	---	101	95
12	---	91	103	93	99	109	74	100	98
13	95	92	103	98	100	105	71	100	94
14	92	95	102	97	99	95	76	94	94
15	94	96	110	83	94	104	74	82	98
16	94	95	103	89	102	104	---	84	95
17	94	94	103	101	101	110	76	85	100
18	101	93	100	99	98	100	75	86	97
19	100	91	100	99	95	106	76	93	100
20	97	93	100	103	---	103	92	94	100
21	100	93	101	105	---	106	91	88	98
22	98	97	97	102	---	93	92	91	102
23	95	---	94	102	---	101	93	90	102
24	96	93	94	101	---	100	97	92	99
25	105	---	92	99	---	99	97	89	102
26	99	93	91	98	---	93	96	95	103
27	95	91	94	91	---	94	90	98	104
28	97	96	93	98	---	97	91	104	102
29	100	---	96	96	---	104	97	105	102
30	99	---	95	92	---	95	94	100	100
31	102	---	93	---	---	---	99	96	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

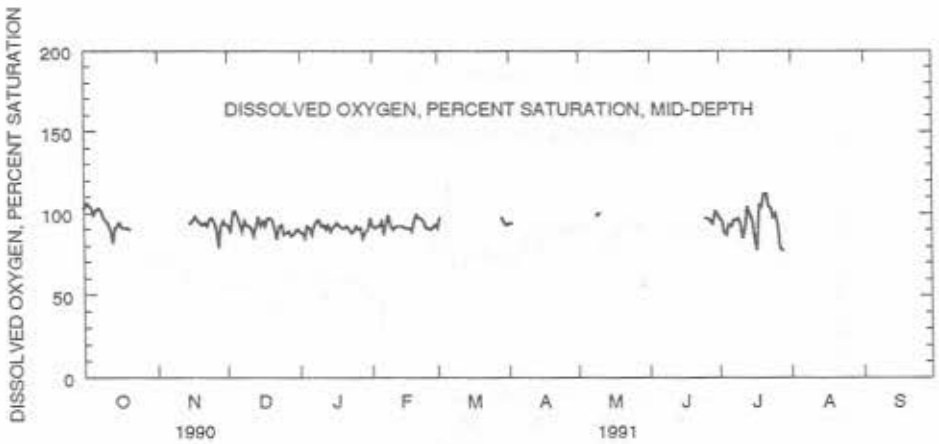
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--5 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 128 percent July 21, 1991; minimum value recorded, 36 percent July 17, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	---	93	88	92	91	94	---	---	97	---	---
2	106	---	88	88	91	97	94	---	---	95	---	---
3	105	---	100	85	92	---	---	---	---	88	---	---
4	103	---	101	92	92	---	---	---	---	87	---	---
5	99	---	98	91	95	---	---	---	---	93	---	---
6	102	---	94	87	87	---	---	---	---	92	---	---
7	103	---	89	92	94	---	---	---	---	96	---	---
8	102	---	95	95	99	---	---	---	---	96	---	---
9	98	---	93	96	92	---	---	99	---	97	---	---
10	95	---	92	92	90	---	---	100	---	93	---	---
11	94	---	91	93	92	---	---	---	---	85	---	---
12	90	---	86	90	92	---	---	---	---	91	---	---
13	82	---	92	93	92	---	---	---	---	104	---	---
14	90	---	98	89	92	---	---	---	---	100	---	---
15	93	94	92	91	91	---	---	---	---	96	---	---
16	94	96	95	93	91	---	---	---	---	86	---	---
17	91	98	92	94	91	---	---	---	---	78	---	---
18	91	96	97	92	89	---	---	---	---	105	---	---
19	91	94	97	91	95	---	---	---	---	104	---	---
20	90	93	96	91	99	---	---	---	---	112	---	---
21	---	94	90	92	97	---	---	---	---	112	---	---
22	---	92	84	90	97	---	---	---	---	105	---	---
23	---	96	92	88	95	---	---	---	---	103	---	---
24	---	97	93	89	91	---	---	---	---	98	---	---
25	---	95	87	92	91	---	---	---	97	100	---	---
26	---	91	88	90	90	---	---	---	97	93	---	---
27	---	79	89	91	91	---	---	---	95	79	---	---
28	---	92	86	85	93	---	---	---	94	78	---	---
29	---	95	87	88	---	97	---	---	101	---	---	---
30	---	93	89	90	---	94	---	---	100	---	---	---
31	---	---	90	97	---	93	---	---	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

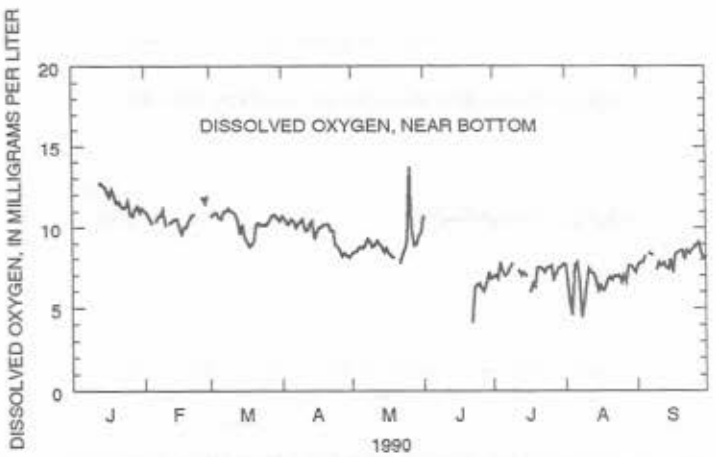
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.9 mg/L January 13, 14, 15, 1990; minimum value recorded, <1.0 mg/L June 22, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	11.0	---	10.7	8.3	10.7	6.9	7.7	7.6
2	---	10.9	10.7	10.6	8.5	---	7.0	6.5b	7.8
3	---	10.6	10.9	10.3	8.5	---	6.8	5.2b	7.8
4	---	10.3	10.9	10.2	8.7	---	7.8	4.6b	8.2
5	---	---	10.6	10.5	8.8	---	7.3	7.6	---
6	---	10.4	10.5	10.4	8.7	---	7.0b	7.8	8.4
7	---	10.7	11.0	10.0	9.0	---	7.1	6.9b	8.3
8	---	10.7	11.0	10.2	9.3	---	7.4	4.5b	---
9	---	11.1	11.2	10.4	9.1	---	7.7	5.3b	7.4
10	---	10.1	11.0	10.5	8.8	---	---	6.4	7.8
11	---	---	11.0	9.8	8.9	---	---	7.4	7.6
12	---	10.3	10.8	9.8	9.2	---	7.3	7.2	7.8
13	12.7	10.4	10.5	10.2	9.0	---	7.0	7.1	7.5
14	12.6	10.5	9.6	10.4	8.8	---	7.2	6.7	7.4
15	12.5	10.5	10.2	9.3	8.5	---	7.0	6.1b	8.0
16	12.1	10.0	9.4	9.7	8.7	---	---	6.4	7.2
17	11.9	9.6	9.1	10.0	8.4	---	6.0b	6.1b	8.4
18	12.3	10.0	8.8	10.0	8.2	---	6.5b	6.2	8.4
19	12.0	10.0	8.9	10.2	8.1	---	6.3b	6.7	8.6
20	11.5	10.4	9.2	10.2	---	---	7.5	6.9	8.6
21	11.6	10.7	10.1	10.2	---	---	7.5	6.7	8.0
22	11.3	10.8	10.3	9.8	7.8	4.2a	7.4	7.0	8.6
23	11.2	---	10.1	9.8	8.3	6.3	7.2	6.9	8.4
24	11.3	10.0	10.2	8.9	8.7	6.4	7.5	7.0	8.6
25	11.6	---	10.1	8.8	9.3	6.5b	7.5	6.6b	8.8
26	10.8	11.8	10.3	8.6	13.7	6.2	7.6	7.0	8.9
27	10.7	11.5	10.5	8.2	10.0	6.0b	6.8	6.6b	9.1
28	11.1	11.9	10.8	8.4	8.9	6.5	7.1	7.6	8.5
29	11.3	---	10.8	8.2	9.0	7.2	7.5	7.6	8.1
30	10.9	---	10.6	8.1	9.5	6.8	7.5	7.4	8.2
31	11.2	---	10.4	---	9.7	---	7.7	7.2	---



DAILY MEAN DISSOLVED OXYGEN, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

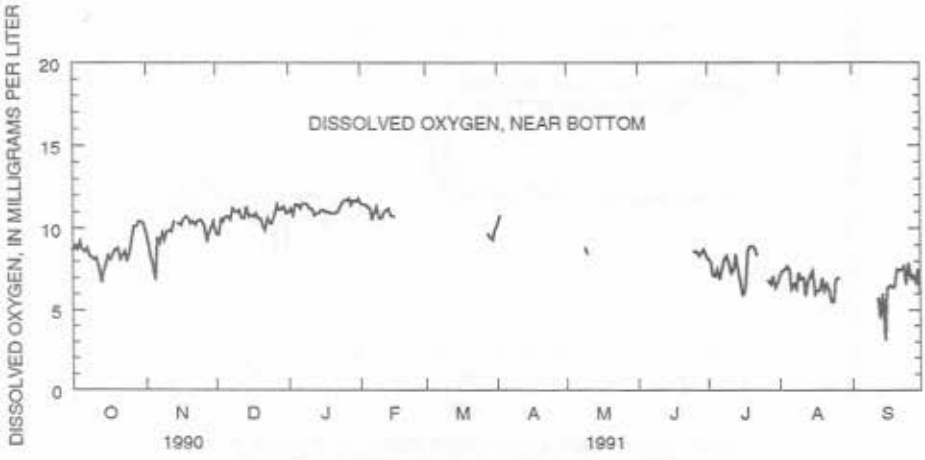
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.5 mg/L February 8, 1991; minimum value recorded, <1.0 mg/L September 15, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.7	9.7	9.7	11.0	11.5	---	10.2	---	---	8.1	7.1	---
2	8.9	9.1	9.6	11.2	11.4	---	10.7	---	---	8.0	7.4	---
3	8.7	8.2	10.5	10.8	11.4	---	---	---	---	7.2	7.5	---
4	9.2	7.8	10.4	11.4	11.3	---	---	---	---	7.1b	7.7	---
5	8.7	6.9b	10.7	11.4	11.2	---	---	---	---	7.5	7.5	---
6	8.6	9.4b	10.7	11.2	10.5	---	---	---	---	6.9b	6.3b	---
7	8.8	9.1	10.5	11.5	11.0	---	---	---	---	7.6b	6.6b	---
8	8.4	9.7	11.2	11.5	11.3	---	---	---	---	8.1	6.3b	---
9	8.2	9.3	11.0	11.4	10.6	---	---	8.8	---	8.3	7.3	---
10	8.1	9.8	11.0	11.2	10.6	---	---	8.5	---	7.8	6.9	---
11	8.2	9.9	11.1	11.2	10.9	---	---	---	---	7.3	7.0	---
12	7.6	9.8	10.6	10.8	11.1	---	---	---	---	7.5	5.9b	5.7a
13	6.7b	10.4	10.6	10.9	11.2	---	---	---	---	8.4	6.8	4.5b
14	7.4	---	11.3	10.9	10.8	---	---	---	---	7.4	7.2b	6.0b
15	7.9	10.3	10.7	11.1	10.7	---	---	---	---	6.6b	7.4	3.1a
16	8.3	10.2	10.8	11.1	---	---	---	---	---	5.9b	6.0b	6.3b
17	8.1	10.5	10.7	11.0	---	---	---	---	---	6.3b	6.2b	6.5
18	8.4	10.7	10.9	11.0	---	---	---	---	---	8.6	6.2b	6.4
19	8.7	10.6	10.6	10.9	---	---	---	---	---	8.9	7.0	6.4
20	8.8	10.3	10.6	10.9	---	---	---	---	---	8.9	6.2	7.5
21	8.1	10.4	10.1	10.9	---	---	---	---	---	8.8	6.6b	7.4
22	8.3	10.2	9.9	11.0	---	---	---	---	---	8.4	6.2b	7.5
23	8.6	10.4	10.6	11.2	---	---	---	---	---	---	5.5b	7.7
24	8.0	10.5	10.3	11.5	---	---	---	---	---	---	5.5b	6.6
25	8.5	10.4	10.3	11.7	---	---	---	---	8.6	---	6.9	7.9
26	9.4	10.1	10.8	11.7	---	---	---	---	8.6	---	7.0	7.0b
27	10.1	9.2	11.4	11.8	---	---	---	---	8.3	6.8	---	7.1b
28	10.1	9.7	11.1	11.4	---	9.6	---	---	8.5	6.6b	---	6.7b
29	10.4	10.1	11.2	11.7	---	9.4	---	---	8.7	7.1	---	7.5
30	10.4	10.4	11.3	11.6	---	9.3	---	---	8.4	6.4b	---	6.1b
31	10.2	---	10.9	11.8	---	9.9	---	---	---	6.7	---	---



DAILY MEAN DISSOLVED OXYGEN, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

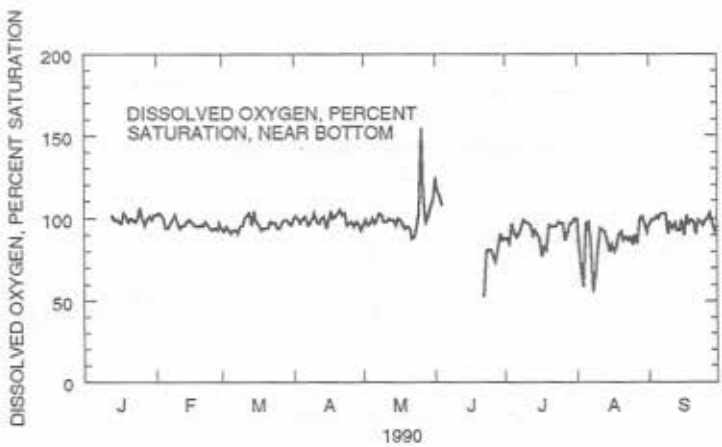
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 179 percent May 26, 1990; minimum value recorded, 10 percent June 22, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	102	---	100	96	124	88	100	96
2	---	103	92	101	99	---	88	83	99
3	---	102	95	99	96	---	85	67	99
4	---	100	93	97	97	---	97	59	101
5	---	---	91	100	100	---	92	97	---
6	---	94	93	101	97	---	89	98	103
7	---	97	93	96	100	---	91	87	103
8	---	99	91	97	103	---	94	56	---
9	---	102	95	100	102	---	99	66	91
10	---	97	96	103	98	---	---	80	97
11	---	---	100	98	98	---	---	94	94
12	---	95	102	97	100	---	96	93	97
13	101	96	103	100	99	---	90	92	93
14	99	98	96	101	99	---	93	87	93
15	99	99	104	94	96	---	90	80	99
16	98	98	98	98	100	---	---	84	90
17	97	96	96	104	99	---	77	80	102
18	103	95	93	100	96	---	83	82	97
19	101	95	94	101	94	---	81	90	99
20	98	96	94	103	---	---	96	92	98
21	100	95	94	105	---	---	95	87	91
22	99	98	98	102	88	53	95	89	99
23	98	---	97	103	89	80	95	87	98
24	100	94	97	96	96	81	98	89	96
25	106	---	94	97	103	81	97	84	99
26	100	94	94	98	154	78	97	90	100
27	96	93	97	95	113	74	87	85	103
28	99	97	99	98	98	82	91	100	97
29	101	---	99	96	101	91	97	101	93
30	99	---	97	93	106	87	97	97	95
31	102	---	96	---	110	---	100	92	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 18.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991*--Continued

[Location of site 9 is latitude 36°05'12", longitude 75°46'06", Currituck County; U.S. Geological Survey downstream order number 0204295500]

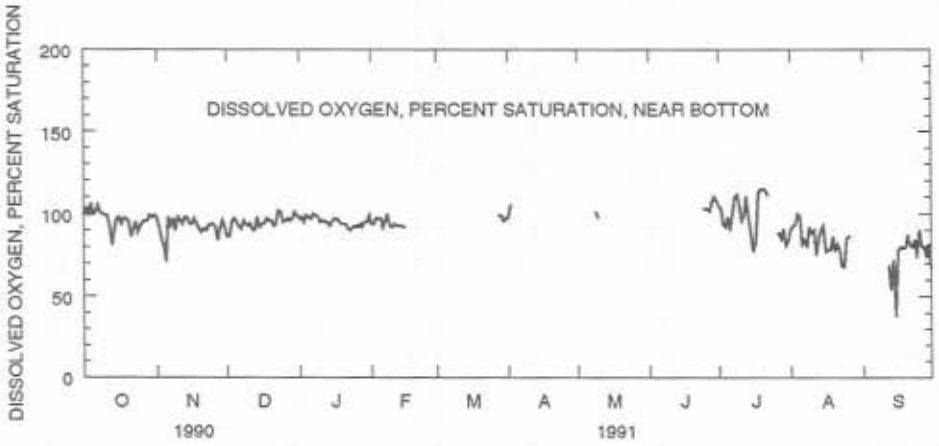
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 142 percent July 21, 1991; minimum value recorded, <10 percent September 15, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	97	86	97	94	---	98	---	---	105	90	---
2	103	92	86	98	94	---	105	---	---	103	93	---
3	100	84	95	95	97	---	---	---	---	94	94	---
4	106	81	97	99	97	---	---	---	---	92	100	---
5	100	71	95	98	97	---	---	---	---	98	98	---
6	101	98	93	97	92	---	---	---	---	90	82	---
7	105	93	91	100	96	---	---	---	---	101	84	---
8	101	97	96	99	100	---	---	---	---	109	80	---
9	100	90	94	98	93	---	---	101	---	111	92	---
10	99	98	93	95	92	---	---	98	---	104	88	---
11	99	96	94	96	94	---	---	---	---	96	90	---
12	92	94	90	95	93	---	---	---	---	99	75	68
13	81	98	91	95	93	---	---	---	---	110	85	54
14	91	---	98	93	93	---	---	---	---	97	91	72
15	97	94	92	95	92	---	---	---	---	87	93	38
16	98	94	94	97	---	---	---	---	---	77	77	77
17	94	97	94	97	---	---	---	---	---	83	78	80
18	97	94	97	96	---	---	---	---	---	112	78	79
19	97	91	96	94	---	---	---	---	---	115	86	79
20	95	89	96	94	---	---	---	---	---	115	77	87
21	86	91	93	94	---	---	---	---	---	114	82	81
22	90	90	94	91	---	---	---	---	---	111	77	80
23	95	93	102	90	---	---	---	---	---	---	68	84
24	89	94	101	92	---	---	---	---	---	---	68	74
25	93	94	95	93	---	---	---	---	103	---	85	90
26	95	92	96	92	---	---	---	---	103	---	86	80
27	96	84	97	94	---	---	---	---	102	88	---	80
28	96	91	96	92	---	99	---	---	106	85	---	74
29	99	96	97	95	---	99	---	---	110	91	---	82
30	98	93	101	95	---	96	---	---	108	81	---	68
31	99	---	99	99	---	97	---	---	---	84	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CURRITUCK SOUND AT U.S. HIGHWAY 158 BRIDGE

Table 19.--*Five-day mean water temperature and dissolved-oxygen values in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/30/89-01/03/90	---	---	---	---	---	---	---	---
01/04/90-01/08/90	---	---	---	---	---	---	---	---
01/09/90-01/13/90	5.8	5.5	12.2	12.0	12.1	11.8	12.6	12.7
01/14/90-01/18/90	6.5	6.2	12.2	11.9	11.7	11.8	12.2	12.3
01/19/90-01/23/90	9.0	8.9	11.3	11.2	11.3	11.2	11.5	11.4
01/24/90-01/28/90	11.0	10.7	11.1	10.9	10.9	10.9	11.1	11.1
01/29/90-02/02/90	11.6	11.7	11.3	11.0	11.0	10.7	11.2	10.8
02/03/90-02/07/90	12.2	11.8	10.8	10.5	10.3	10.0	10.6	10.3
02/08/90-02/12/90	12.5	12.1	10.7	10.3	10.0	9.9	10.5	10.3
02/13/90-02/17/90	13.5	13.4	10.4	10.1	9.9	9.8	10.3	10.1
02/18/90-02/22/90	11.7	11.6	10.7	10.4	10.3	10.0	10.6	10.3
02/23/90-02/27/90	9.3	8.3	11.0	11.0	10.8	10.9	10.9	11.0
02/28/90-03/04/90	8.3	8.0	11.5	11.2	11.3	10.8	11.2	10.9
03/05/90-03/09/90	8.6	8.2	11.3	11.1	11.4	11.2	10.9	10.9
03/10/90-03/14/90	13.2	12.8	11.5	11.2	10.9	10.6	10.6	10.4
03/15/90-03/19/90	17.6	17.4	9.8	9.4	10.0	9.6	9.4	9.1
03/20/90-03/24/90	13.5	12.9	10.2	10.0	10.2	10.1	10.1	10.0
03/25/90-03/29/90	11.6	11.3	10.6	10.5	10.3	10.1	10.6	10.5
03/30/90-04/03/90	12.5	12.4	10.8	10.6	10.3	10.1	10.6	10.4
04/04/90-04/08/90	13.6	13.2	10.4	10.2	10.0	9.9	10.3	10.2
04/09/90-04/13/90	14.6	14.3	10.3	10.1	9.9	9.8	10.2	10.1
04/14/90-04/18/90	15.8	15.4	10.4	10.0	9.5	9.1	10.0	9.7
04/19/90-04/23/90	16.7	16.6	10.3	9.9	10.2	9.8	10.2	9.8
04/24/90-04/28/90	22.0	21.3	9.1	8.8	8.6	8.5	8.5	8.4
04/29/90-05/03/90	22.5	21.9	8.6	8.4	8.3	8.2	8.4	8.3
05/04/90-05/08/90	20.8	20.5	9.1	9.0	8.9	8.9	9.0	8.9
05/09/90-05/13/90	20.4	20.2	8.7	8.5	9.0	8.7	9.0	8.8
05/14/90-05/18/90	22.4	22.1	---	---	8.6	8.5	8.6	8.4
05/19/90-05/23/90	21.7	21.2	8.4	8.4	8.1	8.5	8.1	8.1
05/24/90-05/28/90	20.7	20.4	9.1	8.8	---	---	10.2	10.0
05/29/90-06/02/90	22.0	21.9	9.3	9.1	---	---	9.8	9.8
06/03/90-06/07/90	24.2	23.9	9.2	8.9	9.1	8.4	9.3	9.0
06/08/90-06/12/90	25.8	25.2	8.9	8.6	9.0	8.7	---	---
06/13/90-06/17/90	22.5	22.2	9.3	8.7	9.2	8.5	---	---
06/18/90-06/22/90	25.8	25.4	8.9	8.4	8.3	8.3	5.9	4.8

Table 19.--*Five-day mean water temperature and dissolved-oxygen values in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/23/90-06/27/90	27.0	26.5	7.7	7.3	7.8	7.6	6.3	6.2
06/28/90-07/02/90	27.9	27.2	8.0	7.4	7.7	7.3	7.0	6.7
07/03/90-07/07/90	27.5	27.2	8.1	7.6	7.7	7.3	7.4	7.0
07/08/90-07/12/90	28.7	28.6	7.8	7.4	7.0	6.5	7.6	7.3
07/13/90-07/17/90	28.2	27.7	7.9	7.3	6.0	5.7	6.9	6.7
07/18/90-07/22/90	28.4	27.6	8.1	7.3	6.8	6.8	7.1	7.1
07/23/90-07/27/90	28.7	28.1	7.8	7.2	7.5	7.0	7.5	7.0
07/28/90-08/01/90	28.5	28.1	7.6	7.2	7.8	7.3	7.8	7.3
08/02/90-08/06/90	28.0	27.4	8.4	7.6	7.7	7.2	6.3	6.5
08/07/90-08/11/90	27.0	26.9	8.0	7.6	7.4	7.2	6.2	6.0
08/12/90-08/16/90	29.5	28.8	7.8	7.2	7.0	6.7	6.7	6.3
08/17/90-08/21/90	29.7	28.9	7.8	7.1	7.1	6.6	6.9	6.4
08/22/90-08/26/90	27.9	27.5	8.3	7.8	7.3	7.1	6.9	6.8
08/27/90-08/31/90	29.0	28.6	8.4	7.9	7.9	7.6	7.4	7.3
09/01/90-09/05/90	26.8	26.1	8.6	8.0	8.3	8.0	8.2	7.8
09/06/90-09/10/90	26.3	26.0	8.4	7.8	8.2	7.6	8.3	7.6
09/11/90-09/15/90	26.6	26.2	7.9	7.4	7.9	7.6	7.8	7.5
09/16/90-09/20/90	23.5	22.8	8.6	8.3	8.4	8.4	8.3	8.4
09/21/90-09/25/90	22.0	21.4	8.6	8.4	8.9	8.7	8.5	8.4
09/26/90-09/30/90	21.9	21.8	8.8	7.9	9.1	8.8	8.7	8.4
10/01/90-10/05/90	22.5	22.2	9.2	8.9	9.0	8.8	9.0	8.6
10/06/90-10/10/90	24.6	24.2	9.3	8.6	8.5	8.0	8.7	8.2
10/11/90-10/15/90	25.3	24.8	8.6	8.3	7.5	7.4	7.6	7.5
10/16/90-10/20/90	21.6	20.9	9.1	8.7	8.3	7.8	8.7	8.1
10/21/90-10/25/90	19.6	19.3	8.9	8.4	---	---	8.5	8.3
10/26/90-10/30/90	13.2	12.9	10.8	10.7	---	---	10.2	10.1
10/31/90-11/04/90	16.1	15.9	9.9	9.8	---	---	8.8	8.8
11/05/90-11/09/90	16.0	15.7	9.8	10.0	---	---	8.9	9.1
11/10/90-11/14/90	13.2	12.7	10.3	10.0	10.5	10.0	10.2	10.1
11/15/90-11/19/90	10.7	10.2	11.3	11.2	10.7	10.6	10.4	10.4
11/20/90-11/24/90	10.0	9.8	11.5	11.3	10.8	10.6	10.4	10.4
11/25/90-11/29/90	11.8	11.5	11.2	11.0	9.9	9.7	10.1	9.8
11/30/90-12/04/90	10.9	10.7	11.3	11.2	10.4	10.6	10.1	10.1
12/05/90-12/09/90	9.0	8.6	11.6	11.7	10.8	10.8	10.8	10.9
12/10/90-12/14/90	8.6	8.4	11.7	10.8	10.8	10.6	11.0	10.8

Table 19.--*Five-day mean water temperature and dissolved-oxygen values in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/15/90-12/19/90	9.9	10.0	11.5	11.6	10.7	10.7	10.8	10.7
12/20/90-12/24/90	12.8	12.8	11.3	11.0	9.7	9.4	10.3	10.2
12/25/90-12/29/90	9.5	9.3	11.5	11.4	10.1	9.8	11.1	11.0
12/30/90-01/03/91	10.0	10.0	10.7	10.5	10.0	9.9	11.2	11.0
01/04/91-01/08/91	8.9	8.8	10.4	10.1	10.7	10.5	11.5	11.3
01/09/91-01/13/91	8.9	8.8	11.1	10.9	10.8	10.6	11.1	11.0
01/14/91-01/18/91	9.1	9.0	11.1	11.0	10.6	10.6	11.1	11.0
01/19/91-01/23/91	7.9	7.5	11.1	11.0	10.8	10.7	11.1	11.0
01/24/91-01/28/91	5.6	5.5	11.5	11.2	11.3	11.1	11.7	11.6
01/29/91-02/02/91	7.0	6.9	11.4	10.8	11.2	11.1	11.6	11.5
02/03/91-02/07/91	9.2	8.9	11.0	10.5	10.7	10.8	11.2	11.0
02/08/91-02/12/91	9.0	8.5	10.9	10.6	10.8	10.6	10.9	10.7
02/13/91-02/17/91	7.1	6.7	11.0	10.9	11.1	11.0	10.9	10.8
02/18/91-02/22/91	7.7	7.9	---	---	11.6	11.3	---	---
02/23/91-02/27/91	8.8	8.4	---	---	10.7	10.6	---	---
02/28/91-03/04/91	10.5	10.8	---	---	10.8	10.7	---	---
03/05/91-03/09/91	12.2	11.7	---	---	---	---	---	---
03/10/91-03/14/91	8.7	8.4	---	---	---	---	---	---
03/15/91-03/19/91	9.1	9.0	---	---	---	---	---	---
03/20/91-03/24/91	12.2	11.9	---	---	---	---	---	---
03/25/91-03/29/91	14.7	15.2	9.5	9.0	9.4	9.1	9.9	9.4
03/30/91-04/03/91	14.8	14.0	9.9	9.8	9.6	9.6	10.2	10.1
04/04/91-04/08/91	---	---	---	---	---	---	---	---
04/09/91-04/13/91	---	---	---	---	---	---	---	---
04/14/91-04/18/91	---	---	---	---	---	---	---	---
04/19/91-04/23/91	---	---	---	---	---	---	---	---
04/24/91-04/28/91	---	---	---	---	---	---	---	---
04/29/91-05/03/91	---	---	---	---	---	---	---	---
05/04/91-05/08/91	22.6	22.1	8.9	8.2	8.7	8.4	9.1	8.8
05/09/91-05/13/91	22.3	21.7	8.4	8.2	8.8	8.9	8.7	8.6
05/14/91-05/18/91	---	---	---	---	---	---	---	---
05/19/91-05/23/91	---	---	---	---	---	---	---	---
05/24/91-05/28/91	---	---	---	---	---	---	---	---
05/29/91-06/02/91	---	---	---	---	---	---	---	---
06/03/91-06/07/91	---	---	---	---	---	---	---	---

Table 19.--***Five-day mean water temperature and dissolved-oxygen values in water at site 9, Currituck Sound at U.S. Highway 158 bridge, January 1990-September 1991, for day and night periods***--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/08/91-06/12/91	---	---	---	---	---	---	---	---
06/13/91-06/17/91	---	---	---	---	---	---	---	---
06/18/91-06/22/91	---	---	---	---	---	---	---	---
06/23/91-06/27/91	24.8	24.5	8.2	7.3	8.3	7.5	8.7	8.3
06/28/91-07/02/91	28.2	27.8	7.9	7.4	7.8	7.5	8.5	8.1
07/03/91-07/07/91	29.5	29.0	7.4	7.3	7.0	7.0	7.5	7.2
07/08/91-07/12/91	30.3	29.6	7.1	6.8	7.0	6.9	7.9	7.7
07/13/91-07/17/91	29.6	29.0	7.8	6.7	7.5	6.7	7.4	6.5
07/18/91-07/22/91	29.0	28.6	8.6	8.1	8.5	8.1	8.8	8.7
07/23/91-07/27/91	29.8	29.3	7.6	7.0	7.2	6.8	7.1	6.8
07/28/91-08/01/91	27.7	27.3	7.3	6.8	6.2	5.7	6.8	6.9
08/02/91-08/06/91	28.3	28.1	7.9	7.2	---	---	7.4	7.0
08/07/91-08/11/91	27.8	27.5	7.6	6.8	---	---	7.0	6.5
08/12/91-08/16/91	27.5	27.0	7.8	7.5	---	---	6.6	6.7
08/17/91-08/21/91	26.5	26.1	7.9	7.3	---	---	6.8	6.3
08/22/91-08/26/91	26.2	25.8	7.4	6.7	---	---	6.3	6.0
08/27/91-08/31/91	27.8	27.2	8.1	7.5	---	---	---	---
09/01/91-09/05/91	24.6	23.9	8.4	7.7	---	---	---	---
09/06/91-09/10/91	24.7	24.1	8.3	7.7	---	---	---	---
09/11/91-09/15/91	24.5	24.3	7.7	7.2	---	---	5.4	4.5
09/16/91-09/20/91	25.1	24.3	7.2	6.8	---	---	6.8	6.7
09/21/91-09/25/91	20.3	20.3	8.0	7.7	---	---	7.5	7.3
09/26/91-09/30/91	20.8	20.4	8.1	7.8	---	---	7.4	6.4

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

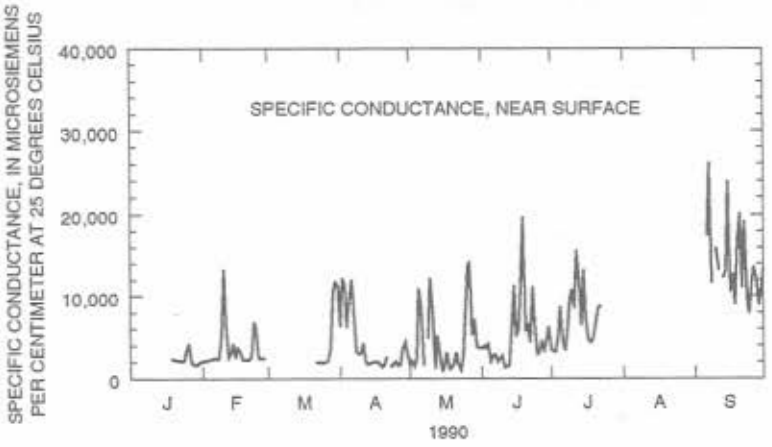
Specific Conductance, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 28,600 µS/cm September 15, 1990; minimum value recorded, 725 µS/cm May 15, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	2,080	---	6,300	1,680	3,690	3,580	---	---
2	---	2,090	---	12,100	1,980	3,930	3,280	---	---
3	---	2,140	---	11,400	1,450	3,700	3,170	---	---
4	---	2,270	---	6,180	2,500	4,270	5,340	---	---
5	---	2,350	---	9,570	10,900	2,060	8,690	---	---
6	---	2,390	---	12,000	8,490	2,680	4,440	---	17,500
7	---	2,360	---	7,210	1,690	2,900	3,450	---	26,100
8	---	2,370	---	3,160	---	2,030	5,570	---	11,700
9	---	4,960	---	2,930	4,890	2,390	9,650	---	---
10	---	13,200	---	2,960	12,100	2,760	10,700	---	15,800
11	---	6,680	---	4,200	8,200	1,350	8,640	---	13,300
12	---	2,550	---	1,850	1,220	1,460	15,600	---	---
13	---	3,020	---	1,700	5,080	1,550	11,700	---	12,400
14	---	4,180	---	1,860	3,000	5,930	6,470	---	13,100
15	---	2,440	---	1,930	815	11,300	13,200	---	23,900
16	---	3,660	---	1,990	1,440	5,060	7,010	---	10,500
17	---	3,250	---	2,000	3,130	5,900	4,590	---	12,700
18	---	2,200	---	1,810	1,180	11,100	4,400	---	8,960
19	2,320	2,270	---	1,370	1,350	19,700	4,700	---	16,800
20	2,240	2,260	---	1,660	1,740	6,050	6,440	---	20,100
21	2,190	2,330	---	2,450	3,140	6,340	8,460	---	11,000
22	2,150	2,720	1,950	---	1,670	4,400	8,740	---	19,100
23	2,100	6,830	2,040	1,460	993	11,100	---	---	9,610
24	2,180	5,960	1,860	1,750	2,650	6,720	---	---	7,900
25	3,240	2,420	1,920	2,030	7,270	2,980	---	---	11,500
26	4,240	2,380	1,990	1,560	13,400	3,130	---	---	13,600
27	1,920	2,400	2,200	1,680	14,200	4,310	---	---	12,300
28	1,690	---	3,710	3,660	5,190	3,430	---	---	8,910
29	1,630	---	10,600	4,370	7,080	4,880	---	---	10,400
30	1,770	---	11,700	3,130	3,920	6,210	---	---	13,200
31	1,970	---	11,300	---	3,670	---	---	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

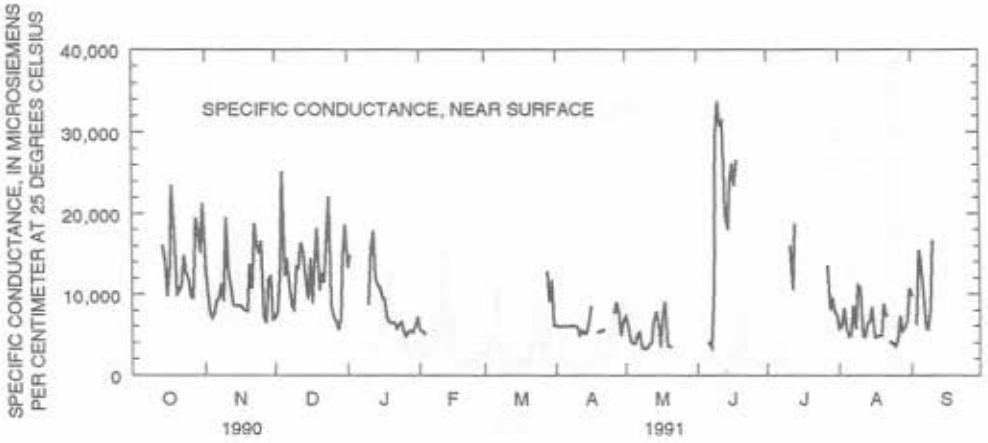
Specific Conductance, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 35,000 µS/cm June 10, 1991; minimum value recorded, 2,550 µS/cm June 7, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9,820	13,600	7,000	13,300	5,430	---	6,050	7,220	---	---	5,710	9,850
2	---	10,700	7,810	14,700	5,280	---	5,830	5,720	---	---	5,990	---
3	---	7,640	13,700	---	5,090	---	5,910	4,220	---	---	8,180	6,250
4	---	7,050	25,100	---	---	---	5,960	3,780	---	---	5,700	15,400
5	---	7,640	12,300	---	---	---	5,930	3,860	---	---	4,770	13,900
6	---	9,180	14,400	---	---	---	5,900	4,940	3,910	---	4,880	10,000
7	---	9,540	11,000	---	---	---	6,010	5,160	3,360	---	8,490	5,680
8	---	11,300	8,480	---	---	---	5,960	3,350	10,800	---	5,610	5,600
9	---	9,180	8,030	---	---	---	5,980	3,210	29,500	---	11,000	8,160
10	---	19,400	13,400	8,850	---	---	5,810	3,210	33,600	---	10,700	16,600
11	---	12,200	13,200	15,700	---	---	4,910	3,630	30,900	15,900	4,740	---
12	---	11,000	16,400	17,800	---	---	5,370	4,030	31,300	10,600	4,660	---
13	---	8,700	15,000	11,800	---	---	5,110	6,420	19,900	18,600	6,270	---
14	16,000	8,540	12,200	11,000	---	---	5,140	7,780	18,000	---	6,720	---
15	14,100	8,560	9,400	10,800	---	---	6,400	6,140	23,700	---	8,410	---
16	9,800	8,490	14,300	9,540	---	---	8,340	3,380	26,100	---	4,650	---
17	13,500	8,300	8,900	9,280	---	---	---	7,680	23,400	---	4,750	---
18	23,400	7,860	14,900	6,980	---	---	---	8,970	26,400	---	4,860	---
19	17,600	7,780	18,100	6,400	---	---	5,250	3,550	---	---	4,830	---
20	10,000	13,600	10,500	6,380	---	---	5,340	3,430	---	---	8,720	---
21	10,500	10,700	12,600	6,420	---	---	5,450	---	---	---	7,250	---
22	11,100	18,700	11,400	5,690	---	---	---	---	---	---	---	---
23	14,800	16,200	17,300	6,070	---	---	---	---	---	---	4,030	---
24	12,700	15,100	22,000	6,460	---	---	---	---	---	---	3,830	---
25	11,800	16,500	8,580	5,190	---	---	---	---	---	---	3,520	---
26	9,510	7,150	7,020	4,760	---	---	7,640	---	---	---	4,320	---
27	9,510	6,370	6,470	5,200	---	---	8,920	---	---	13,400	7,190	---
28	19,400	11,700	5,540	5,390	---	12,700	7,550	---	---	8,040	5,400	---
29	18,400	12,300	6,840	5,210	---	9,110	4,860	---	---	9,570	5,820	---
30	15,200	6,870	14,900	5,990	---	11,700	6,560	---	---	7,720	6,680	---
31	21,200	---	18,600	7,120	---	6,040	---	---	---	7,200	10,700	---



DAILY MEAN SPECIFIC CONDUCTANCE, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

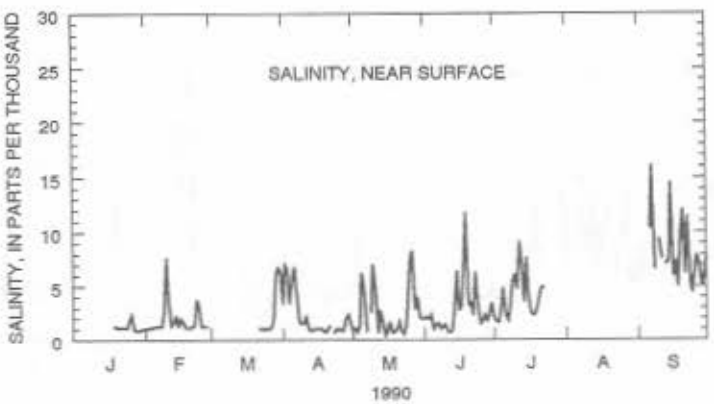
Salinity, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 17.6 ppt September 15, 1990; minimum value recorded, 0.3 ppt May 15, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1.0	---	3.4	0.8	1.9	1.9	---	---
2	---	1.0	---	6.9	1.0	2.1	1.7	---	---
3	---	1.1	---	6.5	.7	1.9	1.6	---	---
4	---	1.1	---	3.4	1.3	2.3	2.9	---	---
5	---	1.2	---	5.4	6.2	1.0	4.8	---	---
6	---	1.2	---	6.8	4.8	1.4	2.3	---	10.4
7	---	1.2	---	4.0	.8	1.5	1.8	---	16.0
8	---	1.2	---	1.6	---	1.0	3.0	---	6.7
9	---	2.7	---	1.5	2.6	1.2	5.4	---	---
10	---	7.6	---	1.5	7.0	1.4	6.1	---	9.3
11	---	3.7	---	2.2	4.6	.7	4.8	---	7.6
12	---	1.3	---	.9	.6	.7	9.1	---	---
13	---	1.6	---	.8	2.7	.8	6.7	---	7.1
14	---	2.2	---	.9	1.6	3.2	3.5	---	7.5
15	---	1.2	---	1.0	.4	6.4	7.6	---	14.5
16	---	1.9	---	1.0	.7	2.7	3.9	---	5.9
17	---	1.7	---	1.0	1.6	3.2	2.4	---	7.3
18	---	1.1	---	.9	.6	6.4	2.3	---	5.0
19	1.2	1.1	---	.7	.7	11.7	2.5	---	9.8
20	1.1	1.1	---	.8	.9	3.3	3.5	---	12.0
21	1.1	1.2	---	1.2	1.6	3.4	4.7	---	6.2
22	1.1	1.4	1.0	---	.8	2.3	4.9	---	11.4
23	1.1	3.7	1.0	.7	.5	6.3	---	---	5.4
24	1.1	3.2	.9	.9	1.4	3.7	---	---	4.4
25	1.7	1.2	1.0	1.0	4.1	1.5	---	---	6.6
26	2.3	1.2	1.0	.8	7.8	1.6	---	---	7.9
27	1.0	1.2	1.1	.8	8.3	2.3	---	---	7.0
28	.8	---	1.9	1.9	2.8	1.8	---	---	5.0
29	.8	---	6.0	2.3	3.9	2.6	---	---	5.8
30	.9	---	6.7	1.6	2.1	3.4	---	---	7.6
31	1.0	---	6.4	---	1.9	---	---	---	---



DAILY MEAN SALINITY, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

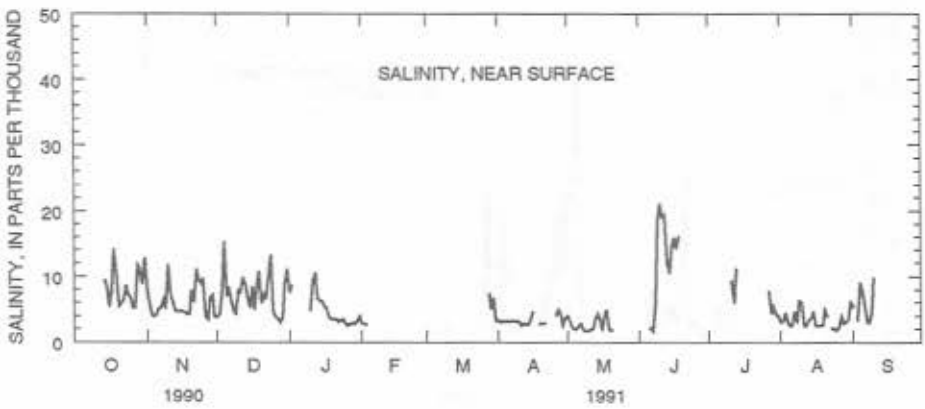
Salinity, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 22.0 ppt June 10, 1991; minimum value recorded, 1.3 ppt June 7, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	7.8	3.8	7.6	2.9	---	3.3	4.0	---	---	3.1	5.6
2	---	6.0	4.3	8.5	2.8	---	3.1	3.1	---	---	3.2	---
3	---	4.2	8.0	---	2.7	---	3.2	2.2	---	---	4.5	3.4
4	---	3.9	15.3	---	---	---	3.2	2.0	---	---	3.1	9.0
5	---	4.2	7.0	---	---	---	3.2	2.0	---	---	2.5	8.1
6	---	5.1	8.4	---	---	---	3.2	2.6	2.1	---	2.6	5.7
7	---	5.3	6.2	---	---	---	3.2	2.8	1.7	---	4.7	3.1
8	---	6.4	4.7	---	---	---	3.2	1.7	6.2	---	3.0	3.0
9	---	5.1	4.4	---	---	---	3.2	1.7	18.2	---	6.2	4.5
10	---	11.6	7.8	4.9	---	---	3.1	1.7	21.0	---	6.1	9.7
11	---	7.0	7.6	9.2	---	---	2.6	1.9	19.2	9.3	2.5	---
12	---	6.2	9.6	10.6	---	---	2.9	2.1	19.4	6.0	2.5	---
13	---	4.8	8.7	6.7	---	---	2.7	3.5	12.0	11.0	3.4	---
14	9.4	4.7	7.0	6.2	---	---	2.7	4.3	10.6	---	3.7	---
15	8.2	4.8	5.3	6.2	---	---	3.5	3.3	14.3	---	4.7	---
16	5.5	4.7	8.3	5.4	---	---	4.6	1.8	15.9	---	2.5	---
17	7.8	4.6	5.0	5.2	---	---	---	4.2	14.2	---	2.5	---
18	14.1	4.3	8.7	3.8	---	---	---	5.0	16.1	---	2.6	---
19	10.4	4.3	10.7	3.5	---	---	2.8	1.8	---	---	2.6	---
20	5.6	7.8	5.9	3.5	---	---	2.9	1.8	---	---	4.9	---
21	5.9	6.0	7.2	3.5	---	---	2.9	---	---	---	4.0	---
22	6.3	11.1	6.5	3.1	---	---	---	---	---	---	---	---
23	8.6	9.5	10.2	3.3	---	---	---	---	---	---	2.1	---
24	7.3	8.9	13.2	3.5	---	---	---	---	---	---	2.0	---
25	6.7	9.7	4.8	2.8	---	---	---	---	---	---	1.8	---
26	5.3	3.9	3.8	2.5	---	---	4.2	---	---	---	2.3	---
27	5.3	3.5	3.5	2.8	---	---	5.0	---	---	7.7	3.9	---
28	11.5	6.7	3.0	2.9	---	7.3	4.2	---	---	4.4	2.9	---
29	10.9	7.1	3.7	2.8	---	5.1	2.6	---	---	5.4	3.1	---
30	8.8	3.8	8.7	3.2	---	6.7	3.6	---	---	4.3	3.6	---
31	12.7	---	11.0	3.9	---	3.3	---	---	---	3.9	6.0	---



DAILY MEAN SALINITY, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

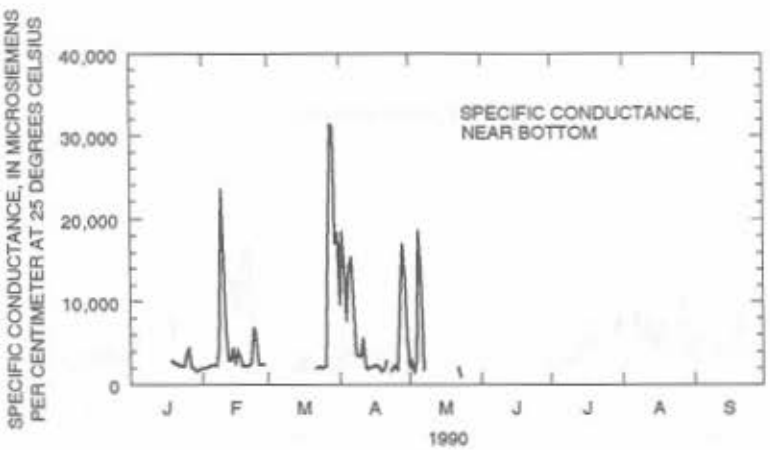
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 33,300 µS/cm March 28, 1990; minimum value recorded, 800 µS/cm May 23, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	2,050	---	9,580	1,970	---	---	---	---
2	---	2,030	---	18,500	2,720	---	---	---	---
3	---	2,090	---	13,900	1,280	---	---	---	---
4	---	2,200	---	7,590	3,030	---	---	---	---
5	---	2,310	---	14,300	18,600	---	---	---	---
6	---	2,340	---	15,400	13,800	---	---	---	---
7	---	2,360	---	8,250	1,750	---	---	---	---
8	---	4,350	---	3,560	---	---	---	---	---
9	---	23,400	---	3,380	---	---	---	---	---
10	---	15,000	---	3,320	---	---	---	---	---
11	---	6,770	---	5,630	---	---	---	---	---
12	---	2,860	---	2,090	---	---	---	---	---
13	---	2,960	---	1,890	---	---	---	---	---
14	---	4,370	---	2,080	---	---	---	---	---
15	---	2,390	---	2,180	---	---	---	---	---
16	---	4,060	---	2,230	---	---	---	---	---
17	---	3,410	---	2,220	---	---	---	---	---
18	---	2,200	---	2,020	---	---	---	---	---
19	2,820	2,260	---	1,520	---	---	---	---	---
20	2,470	2,260	---	1,810	---	---	---	---	---
21	2,440	2,330	---	2,810	---	---	---	---	---
22	2,290	2,690	2,030	---	1,980	---	---	---	---
23	2,240	6,770	2,140	1,630	902	---	---	---	---
24	2,260	6,000	1,900	2,080	---	---	---	---	---
25	3,380	2,430	2,110	2,240	---	---	---	---	---
26	4,480	2,410	2,260	1,600	---	---	---	---	---
27	2,080	2,410	16,400	10,000	---	---	---	---	---
28	1,990	---	31,300	17,000	---	---	---	---	---
29	1,570	---	31,100	12,700	---	---	---	---	---
30	1,710	---	17,000	5,700	---	---	---	---	---
31	1,930	---	18,300	---	---	---	---	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

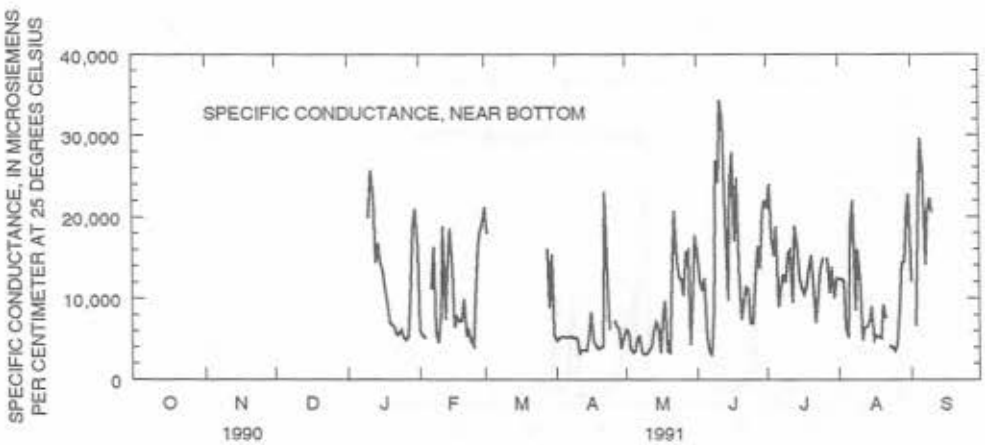
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 37,600 µS/cm June 11, 12, 1991; minimum value recorded, 1,800 µS/cm June 7, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	6,010	21,100	4,740	6,060	15,400	21,000	12,300	12,100
2	---	---	---	---	5,420	18,000	5,080	5,860	11,900	23,900	12,300	---
3	---	---	---	---	5,140	---	5,220	3,720	10,900	17,300	12,000	6,690
4	---	---	---	---	---	---	5,250	3,300	12,400	15,100	6,400	21,200
5	---	---	---	---	---	---	5,150	3,470	5,120	18,700	5,180	29,500
6	---	---	---	---	11,200	---	5,140	5,130	3,550	8,940	18,500	25,800
7	---	---	---	---	16,200	---	5,260	5,340	2,860	11,300	21,900	14,100
8	---	---	---	---	5,760	---	5,100	3,210	8,710	12,800	8,510	20,400
9	---	---	---	---	4,530	---	5,170	3,050	26,800	11,900	15,900	22,200
10	---	---	---	20,000	8,070	---	4,850	3,110	24,100	15,400	12,500	20,600
11	---	---	---	25,600	18,700	---	3,210	3,610	34,300	15,800	4,850	---
12	---	---	---	22,700	7,390	---	3,550	4,080	32,100	9,480	6,350	---
13	---	---	---	14,300	14,800	---	3,580	5,750	19,800	18,800	6,510	---
14	---	---	---	16,700	18,500	---	3,490	7,010	9,780	16,500	7,190	---
15	---	---	---	14,400	13,600	---	5,620	6,260	23,500	12,300	8,930	---
16	---	---	---	13,300	6,420	---	8,180	3,250	27,800	11,300	4,900	---
17	---	---	---	11,400	7,650	---	4,560	7,800	16,900	10,500	5,380	---
18	---	---	---	9,390	7,080	---	4,240	9,640	24,700	11,500	5,200	---
19	---	---	---	6,910	7,230	---	3,760	3,420	13,600	13,400	5,060	---
20	---	---	---	6,630	9,890	---	3,920	3,240	7,440	15,100	9,130	---
21	---	---	---	6,310	5,330	---	4,070	12,200	9,500	10,800	7,650	---
22	---	---	---	5,450	5,960	---	23,000	20,600	11,300	7,040	---	---
23	---	---	---	5,610	4,680	---	12,000	14,600	11,000	10,300	4,060	---
24	---	---	---	6,090	4,110	---	6,230	12,500	6,890	13,300	3,890	---
25	---	---	---	5,020	9,920	---	---	12,200	6,890	14,700	3,520	---
26	---	---	---	4,810	16,200	---	7,180	10,300	12,500	---	4,330	---
27	---	---	---	5,410	18,100	---	6,550	15,400	16,300	14,700	9,070	---
28	---	---	---	9,900	19,100	15,900	6,200	15,800	13,600	10,600	14,200	---
29	---	---	---	18,400	---	8,850	3,780	4,270	20,300	13,700	14,300	---
30	---	---	---	20,900	---	15,300	5,080	10,900	21,900	9,980	20,900	---
31	---	---	---	16,000	---	5,480	---	17,600	---	12,400	22,700	---



DAILY MEAN SPECIFIC CONDUCTANCE, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

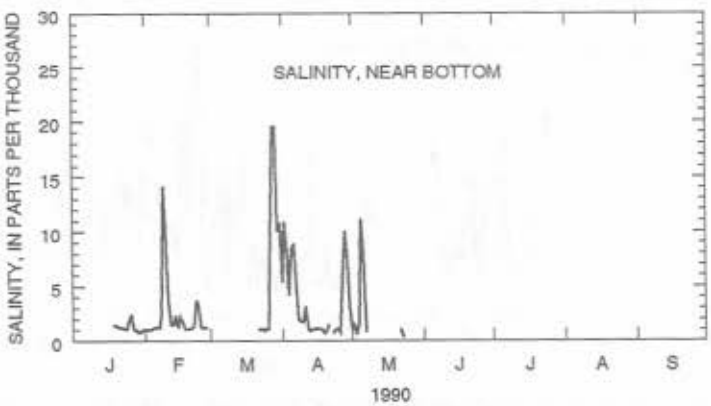
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 20.8 ppt March 28, 1990; minimum value recorded, 0.4 ppt May 7, 23, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	1.0	---	5.4	1.0	---	---	---	---
2	---	1.0	---	10.9	1.4	---	---	---	---
3	---	1.0	---	8.1	.6	---	---	---	---
4	---	1.1	---	4.2	1.6	---	---	---	---
5	---	1.2	---	8.3	11.1	---	---	---	---
6	---	1.2	---	8.9	8.0	---	---	---	---
7	---	1.2	---	4.6	.9	---	---	---	---
8	---	2.4	---	1.9	---	---	---	---	---
9	---	14.1	---	1.8	---	---	---	---	---
10	---	8.7	---	1.7	---	---	---	---	---
11	---	3.7	---	3.1	---	---	---	---	---
12	---	1.5	---	1.0	---	---	---	---	---
13	---	1.5	---	.9	---	---	---	---	---
14	---	2.3	---	1.0	---	---	---	---	---
15	---	1.2	---	1.1	---	---	---	---	---
16	---	2.2	---	1.1	---	---	---	---	---
17	---	1.8	---	1.1	---	---	---	---	---
18	---	1.1	---	1.0	---	---	---	---	---
19	1.4	1.1	---	.7	---	---	---	---	---
20	1.3	1.1	---	.9	---	---	---	---	---
21	1.2	1.2	---	1.4	---	---	---	---	---
22	1.2	1.4	1.0	---	1.0	---	---	---	---
23	1.1	3.7	1.1	.8	.4	---	---	---	---
24	1.1	3.3	.9	1.0	---	---	---	---	---
25	1.8	1.2	1.1	1.1	---	---	---	---	---
26	2.4	1.2	1.1	.8	---	---	---	---	---
27	1.0	1.2	9.8	5.6	---	---	---	---	---
28	1.0	---	19.5	10.0	---	---	---	---	---
29	.8	---	19.4	7.3	---	---	---	---	---
30	.8	---	10.0	3.2	---	---	---	---	---
31	1.0	---	10.8	---	---	---	---	---	---



DAILY MEAN SALINITY, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

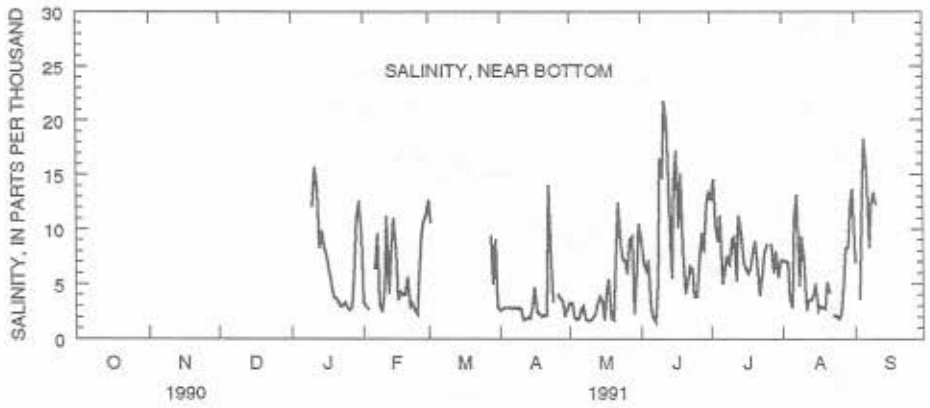
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 23.8 ppt June 11, 12, 1991; minimum value recorded, 0.9 ppt June 7, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	3.3	12.6	2.5	3.3	9.1	12.6	7.1	7.0
2	---	---	---	---	2.9	10.6	2.7	3.2	6.8	14.5	7.0	---
3	---	---	---	---	2.7	---	2.8	1.9	6.2	10.3	6.9	3.7
4	---	---	---	---	---	---	2.8	1.7	7.1	8.8	3.5	12.8
5	---	---	---	---	---	---	2.8	1.8	2.7	11.2	2.8	18.2
6	---	---	---	---	6.4	---	2.7	2.7	1.9	5.0	11.0	15.7
7	---	---	---	---	9.5	---	2.8	2.9	1.5	6.4	13.1	8.3
8	---	---	---	---	3.1	---	2.7	1.7	4.9	7.3	4.8	12.2
9	---	---	---	---	2.4	---	2.8	1.6	16.4	6.8	9.3	13.3
10	---	---	---	12.1	4.5	---	2.6	1.6	14.7	9.0	7.2	12.3
11	---	---	---	15.6	11.1	---	1.7	1.9	21.6	9.2	2.6	---
12	---	---	---	13.7	4.1	---	1.8	2.2	20.0	5.3	3.5	---
13	---	---	---	8.3	8.6	---	1.9	3.1	12.0	11.2	3.5	---
14	---	---	---	9.8	10.9	---	1.8	3.8	5.5	9.7	4.0	---
15	---	---	---	8.4	7.9	---	3.1	3.4	14.3	7.0	5.0	---
16	---	---	---	7.6	3.5	---	4.6	1.7	17.1	6.4	2.6	---
17	---	---	---	6.5	4.2	---	2.4	4.3	10.1	5.9	2.9	---
18	---	---	---	5.3	3.9	---	2.2	5.4	15.0	6.5	2.8	---
19	---	---	---	3.8	4.0	---	2.0	1.8	8.1	7.7	2.7	---
20	---	---	---	3.6	5.6	---	2.1	1.7	4.1	8.8	5.1	---
21	---	---	---	3.4	2.9	---	2.1	7.1	5.3	6.1	4.2	---
22	---	---	---	2.9	3.2	---	14.0	12.4	6.5	3.9	---	---
23	---	---	---	3.0	2.5	---	7.0	8.6	6.3	5.8	2.1	---
24	---	---	---	3.3	2.2	---	3.4	7.2	3.8	7.7	2.0	---
25	---	---	---	2.7	5.7	---	---	7.0	3.8	8.5	1.8	---
26	---	---	---	2.6	9.6	---	3.9	5.9	7.2	---	2.3	---
27	---	---	---	2.9	10.7	---	3.6	9.0	9.6	8.5	5.1	---
28	---	---	---	5.6	11.3	9.3	3.4	9.3	7.9	6.0	8.2	---
29	---	---	---	10.9	---	5.0	2.0	2.3	12.2	7.9	8.3	---
30	---	---	---	12.5	---	9.0	2.7	6.2	13.2	5.6	12.5	---
31	---	---	---	9.4	---	2.9	---	10.4	---	7.1	13.6	---



DAILY MEAN SALINITY, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

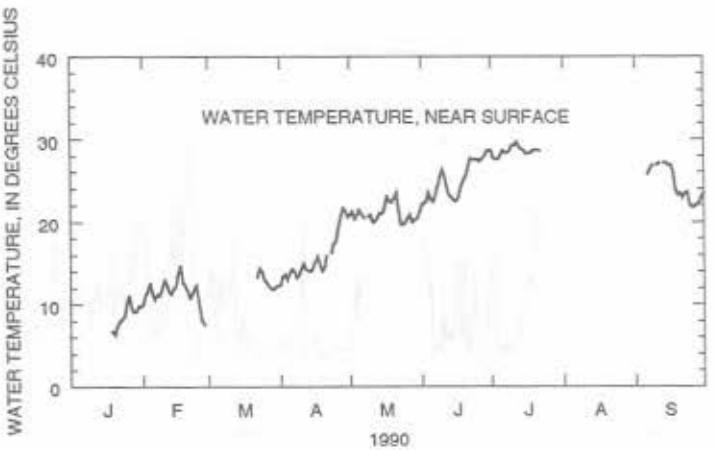
Water Temperature, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 33.2 °C July 12, 1990; minimum value recorded, 5.9 °C January 20, 1990.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.0	---	12.4	20.8	22.1	28.6	---	---
2	---	11.0	---	13.4	21.2	22.2	27.7	---	---
3	---	11.7	---	13.6	20.4	22.4	27.5	---	---
4	---	12.6	---	13.0	20.8	23.4	27.5	---	---
5	---	11.4	---	13.8	21.4	22.6	28.0	---	---
6	---	10.6	---	14.3	20.9	22.4	28.6	---	25.8
7	---	11.2	---	13.9	20.5	23.2	28.4	---	26.2
8	---	11.0	---	13.2	---	24.4	28.4	---	26.8
9	---	11.8	---	13.6	20.7	25.5	28.6	---	---
10	---	12.9	---	14.2	20.8	26.2	29.2	---	26.9
11	---	12.6	---	14.9	20.0	25.3	29.2	---	27.0
12	---	11.6	---	14.2	20.1	23.8	29.6	---	---
13	---	11.3	---	14.1	20.5	23.1	29.0	---	27.1
14	---	11.9	---	14.0	21.1	22.9	28.8	---	27.1
15	---	12.1	---	14.6	21.0	22.5	28.6	---	26.8
16	---	13.6	---	15.1	21.7	22.5	28.2	---	26.9
17	---	14.7	---	15.8	23.0	23.1	28.3	---	25.8
18	---	12.6	---	15.0	22.5	24.2	28.4	---	23.8
19	6.7	12.4	---	14.1	22.3	24.9	28.6	---	23.2
20	6.3	11.7	---	14.6	22.8	25.5	28.7	---	23.4
21	7.5	10.8	---	15.9	23.4	26.4	28.7	---	22.9
22	7.9	11.1	13.3	---	21.6	27.6	28.6	---	23.4
23	8.2	12.0	14.4	16.3	19.7	27.4	---	---	23.6
24	8.6	12.3	13.9	17.3	19.7	27.5	---	---	22.1
25	9.9	10.2	13.0	17.7	20.0	27.5	---	---	21.8
26	11.1	8.2	12.6	19.1	20.5	27.3	---	---	21.8
27	9.5	7.6	12.3	20.5	20.8	27.5	---	---	22.1
28	9.1	---	11.9	21.6	20.0	27.9	---	---	22.3
29	9.1	---	11.8	21.2	20.3	28.5	---	---	23.0
30	9.8	---	12.1	20.6	20.4	28.7	---	---	23.4
31	9.7	---	12.3	---	21.1	---	---	---	---



DAILY MEAN WATER TEMPERATURE, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

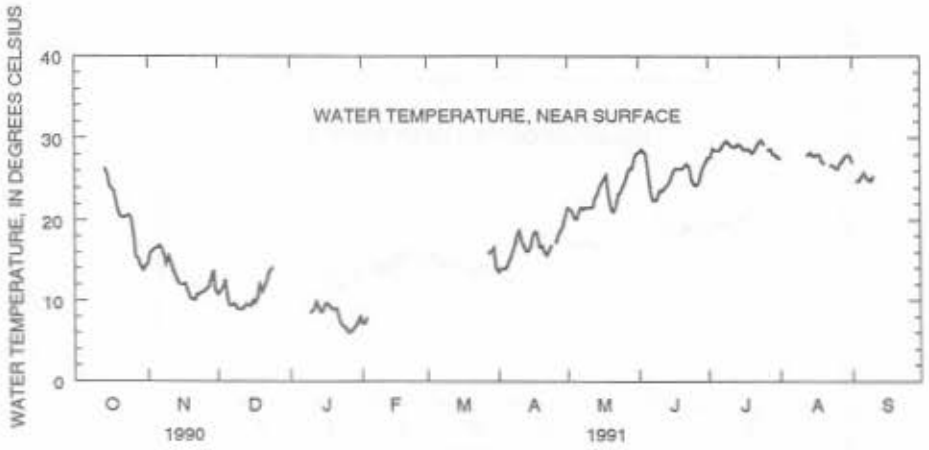
Water Temperature, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 31.0 °C July 8, 1991; minimum value recorded, 5.8 °C January 26, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23.0	14.7	10.8	---	7.1	---	13.5	21.5	28.2	27.7	27.6	27.1
2	---	15.9	11.1	---	7.2	---	13.9	21.4	28.6	27.7	---	---
3	---	16.3	11.7	---	7.8	---	13.9	21.1	28.3	28.7	---	24.8
4	---	16.5	12.6	---	---	---	13.9	20.2	28.1	28.5	---	24.8
5	---	16.6	10.3	---	---	---	14.4	20.1	25.7	28.5	---	25.3
6	---	16.8	9.4	---	---	---	15.1	21.1	23.8	28.5	---	25.8
7	---	16.5	9.4	---	---	---	16.0	21.6	22.4	29.0	---	25.3
8	---	15.7	9.6	---	---	---	16.9	21.4	22.5	29.4	---	24.9
9	---	14.6	9.1	---	---	---	17.9	21.6	22.7	29.6	---	24.8
10	---	15.5	8.9	8.6	---	---	18.9	21.5	23.7	29.3	---	25.3
11	---	14.5	8.9	8.8	---	---	17.5	21.5	23.6	29.0	---	---
12	---	13.6	9.1	9.8	---	---	16.8	21.7	23.9	28.9	---	---
13	---	12.9	9.5	9.2	---	---	16.1	22.7	24.3	28.9	28.0	---
14	26.2	12.1	9.4	8.6	---	---	16.1	23.3	24.7	29.2	28.2	---
15	25.5	12.0	9.3	8.7	---	---	16.8	24.2	25.3	29.1	27.9	---
16	24.3	12.0	10.0	9.5	---	---	18.0	24.6	26.0	28.7	27.8	---
17	23.8	12.1	9.7	9.6	---	---	18.6	25.2	26.3	28.6	28.0	---
18	23.7	11.2	10.5	9.2	---	---	18.3	25.5	26.3	28.7	28.0	---
19	21.9	10.2	11.9	8.9	---	---	16.7	22.9	26.2	28.5	27.1	---
20	20.7	10.2	11.1	8.9	---	---	16.8	21.3	26.3	28.2	27.0	---
21	20.4	10.1	11.8	9.0	---	---	16.0	21.1	26.7	28.5	---	---
22	20.4	10.8	12.5	7.8	---	---	15.7	21.7	26.9	29.0	---	---
23	20.5	10.8	13.6	7.0	---	---	16.2	23.2	26.3	29.5	26.7	---
24	20.7	11.0	14.0	6.8	---	---	16.8	23.4	25.0	29.7	26.7	---
25	20.3	11.0	---	6.5	---	---	---	24.1	24.4	29.3	26.3	---
26	18.2	11.4	---	6.0	---	---	17.2	24.7	24.3	---	26.3	---
27	15.4	11.7	---	6.2	---	---	18.1	25.7	24.8	28.6	27.0	---
28	15.2	12.6	---	6.4	---	16.0	18.8	26.3	25.8	28.7	27.3	---
29	14.4	13.7	---	6.8	---	16.2	19.1	26.2	26.6	28.1	27.8	---
30	13.8	11.2	---	7.3	---	16.6	20.4	27.4	27.1	28.0	27.9	---
31	14.2	---	---	8.0	---	14.1	---	28.1	---	27.7	27.9	---



DAILY MEAN WATER TEMPERATURE, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

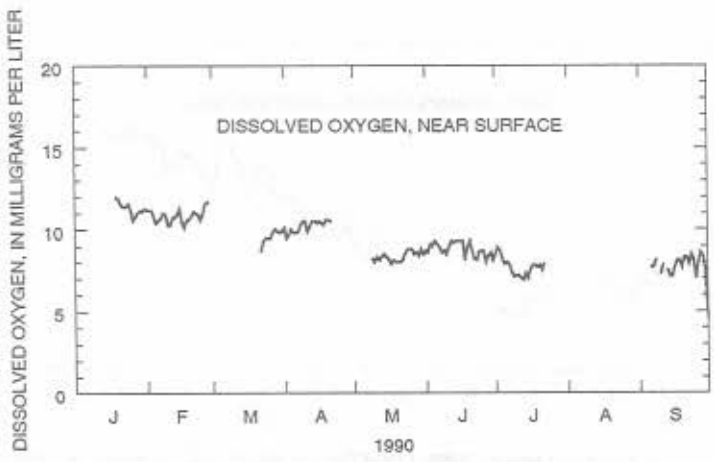
Dissolved Oxygen, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.2 mg/L February 27, 1990; minimum value recorded, 1.6 mg/L September 30, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	11.2	---	10.1	---	8.7	8.5	---	---
2	---	11.2	---	9.5	---	8.6	8.9	---	---
3	---	11.2	---	9.7	---	9.1	8.7	---	---
4	---	10.7	---	10.0	---	9.0	8.2	---	---
5	---	10.4	---	9.8	---	9.3	7.9	---	---
6	---	10.6	---	9.8	---	9.1	8.0	---	7.7
7	---	10.7	---	9.9	---	8.9	7.8	---	7.7
8	---	11.0	---	10.3	---	8.6	7.4	---	8.1
9	---	10.9	---	10.5	8.2	8.7	7.1	---	---
10	---	10.3	---	10.5	8.0	8.5	7.2	---	7.3
11	---	10.3	---	9.9	8.3	8.9	7.2	---	7.8
12	---	10.7	---	10.2	8.1	9.3	7.0	---	---
13	---	10.8	---	10.5	8.3	9.2	6.9	---	7.5
14	---	10.9	---	10.5	8.5	9.3	7.3	---	7.1b
15	---	11.3	---	10.4	8.3	9.3	7.0	---	7.1
16	---	10.5	---	10.5	8.2	9.3	7.5	---	7.7b
17	---	10.1	---	10.4	7.9	9.3	7.8	---	8.1
18	---	10.6	---	10.3	8.1	8.1b	7.8	---	8.1
19	12.0	10.6	---	10.6	8.0	8.9	7.7	---	7.7
20	11.8	10.8	---	10.6	8.0	9.3	7.8	---	8.3
21	11.5	11.1	---	10.5	8.0	8.8	7.5	---	8.3
22	11.4	11.0	8.7	---	8.1	8.2	7.9	---	7.9
23	11.4	10.9	9.3	---	8.5	8.1	---	---	8.5
24	11.6	10.6	9.5	---	8.8	8.6	---	---	8.2
25	11.3	10.9	9.5	---	8.8	8.7	---	---	7.0b
26	10.6	11.6	9.5	---	8.8	8.7	---	---	7.9
27	10.8	11.7	9.8	---	8.5	8.0	---	---	8.6
28	11.0	---	10.0	---	8.6	8.4	---	---	8.4
29	11.2	---	9.9	---	8.4	8.6	---	---	7.6
30	11.1	---	9.8	---	8.8	8.1	---	---	4.6a
31	11.3	---	9.9	---	8.5	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is les than or equal to 5.0 mg/L but greater than 2.0 mg/L]

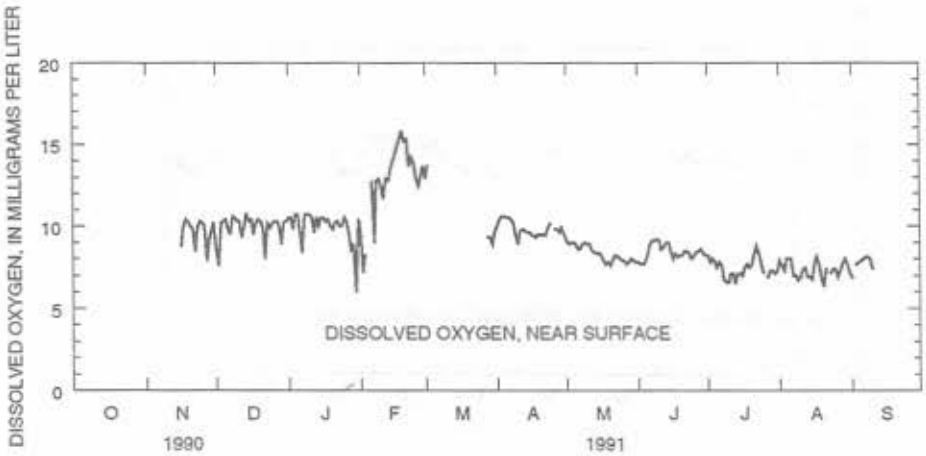
Dissolved Oxygen, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 16.2 mg/L February 19, 1991; minimum value recorded, <1.0 mg/L December 22, 1990, January 7, 30, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.8	---	8.6	10.5	9.8b	12.9	10.0	9.1	7.8	8.2	7.9	6.9
2	---	---	7.6b	10.5	7.2b	13.7	10.4	8.9	7.7	7.8	7.6	---
3	---	---	10.2	9.8	8.2b	---	10.6	9.0	7.7	8.0	7.3	7.7
4	---	---	10.3	10.7	---	---	10.6	9.0	7.8	7.8	8.0	7.8
5	---	---	10.4	10.7	---	---	10.5	8.9	8.2	7.5	8.0	7.9
6	---	---	9.9	9.5	12.7	---	10.5	8.6	8.8	7.8	8.0	8.0
7	---	---	9.5	8.4a	9.0	---	10.4	8.6	9.1	7.6	7.0	8.1
8	---	---	10.6	10.7	12.8	---	10.1	8.9	9.1	6.8	7.0	8.1
9	---	---	10.5	10.7	12.9	---	9.4	9.0	9.2	6.6	6.7	7.9
10	---	---	10.3	10.7	12.3	---	8.9	8.9	9.1	6.6	6.9	7.4
11	---	---	10.3	10.5	11.7	---	9.7	8.9	8.6	7.1	7.4	---
12	---	---	9.3	9.6	12.9	---	9.8	8.5	8.7	7.1	7.5	---
13	---	---	10.0	10.5	12.8	---	9.7	8.4	9.0	6.5	6.9	---
14	---	---	10.8	10.0	13.4	---	9.6	8.3	9.0	7.1	6.9	---
15	---	---	10.3	10.5	14.0	---	9.6	8.3	8.5	7.1	6.8	---
16	---	8.8	10.4	10.5	14.3	---	9.4	8.2	8.0	7.0	7.8	---
17	---	9.9	9.5b	10.3	14.9	---	9.4	7.9	8.3	7.5	8.1	---
18	---	10.4	10.2	10.4	15.3	---	9.3	7.7	8.1	7.7	7.6	---
19	---	10.2	10.4	10.0	15.8	---	9.5	7.8	8.2	7.5	6.8	---
20	---	10.0	10.3	9.8	15.2	---	9.4	7.6	8.2	7.7	6.3	---
21	---	9.8b	9.9	10.2	15.3	---	9.5	7.9	8.5	8.3	7.4	---
22	---	8.5b	8.0a	10.3	13.7	---	9.4	8.2	8.5	8.8	---	---
23	---	9.9b	10.1	10.0	14.2	---	9.9	8.1	8.3	8.3	7.2	---
24	---	10.3	9.9	10.0	13.8	---	10.1	8.0	8.0	7.8	7.4	---
25	---	10.2	10.1	10.5	13.0	---	---	7.9	8.1	7.2	7.4	---
26	---	10.0	10.3	10.3	12.5	---	9.8	7.9	8.4	---	6.9	---
27	---	7.9b	10.3	9.6	12.9	---	9.8	7.7	8.5	6.9	7.3	---
28	---	9.1	10.0	8.6b	13.7	9.3	9.6	7.8	8.6	7.3	7.7	---
29	---	9.7	8.9	8.9b	---	9.3	9.9	8.0	8.3	7.3	8.0	---
30	---	10.2	10.2	6.0a	---	8.9	9.5	7.9	8.2	7.1	7.7	---
31	---	---	10.3	10.4	---	9.6	---	7.8	---	7.3	7.2	---



DAILY MEAN DISSOLVED OXYGEN, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

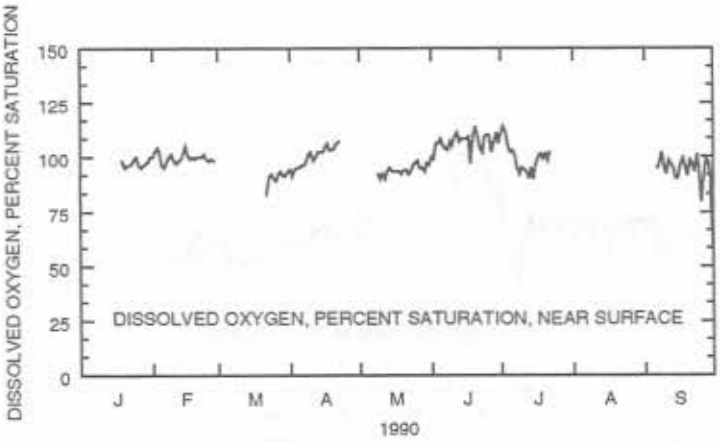
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 129 percent June 29, 1990; minimum value recorded, 19 percent September 30, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	100	---	94	---	100	111	---	---
2	---	102	---	91	---	99	114	---	---
3	---	104	---	94	---	106	111	---	---
4	---	101	---	95	---	106	105	---	---
5	---	96	---	95	---	108	102	---	---
6	---	95	---	96	---	105	103	---	95
7	---	98	---	96	---	104	100	---	96
8	---	100	---	98	---	103	95	---	102
9	---	101	---	101	92	107	92	---	---
10	---	98	---	102	90	105	95	---	92
11	---	97	---	98	92	109	94	---	98
12	---	98	---	100	90	111	93	---	---
13	---	99	---	102	93	107	90	---	95
14	---	101	---	102	95	108	95	---	90
15	---	105	---	102	93	108	90	---	90
16	---	101	---	104	93	108	96	---	96
17	---	99	---	106	93	109	100	---	99
18	---	100	---	103	93	97	101	---	96
19	98	99	---	103	92	109	99	---	91
20	95	100	---	104	94	114	101	---	98
21	96	100	---	106	94	110	98	---	97
22	96	100	83	107	92	104	102	---	93
23	97	101	91	---	93	102	---	---	101
24	99	99	92	---	96	109	---	---	94
25	100	98	90	---	97	110	---	---	80
26	96	99	89	---	98	110	---	---	90
27	95	98	92	---	95	102	---	---	99
28	96	---	93	---	95	107	---	---	97
29	97	---	91	---	93	111	---	---	89
30	98	---	91	---	97	106	---	---	55
31	100	---	93	---	96	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

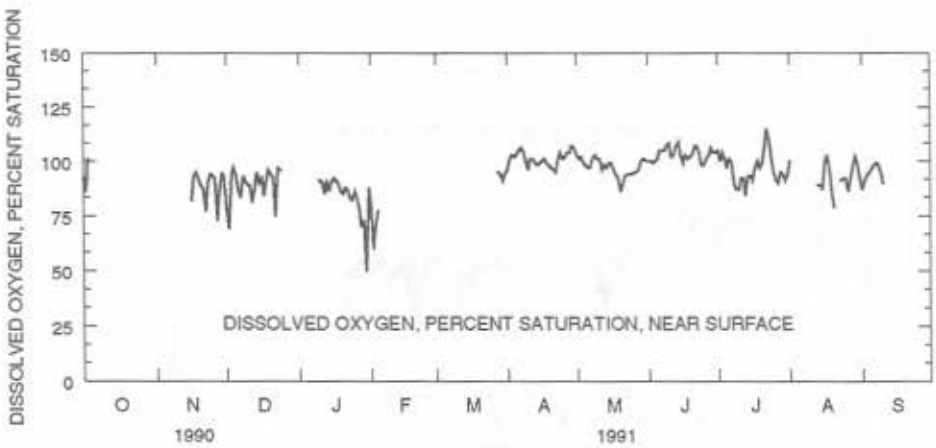
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--18 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 127 percent August 29, 1991; minimum value recorded, <10 percent December 22, 1990, January 30, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	92	---	78	---	81	---	96	103	100	105	100	87
2	---	---	69	---	60	---	101	101	100	100	---	---
3	---	---	94	---	69	---	103	102	99	104	---	93
4	---	---	97	---	---	---	102	99	100	101	---	95
5	---	---	93	---	---	---	103	98	101	97	---	96
6	---	---	87	---	---	---	105	97	105	101	---	98
7	---	---	83	---	---	---	106	97	105	99	---	99
8	---	---	93	---	---	---	104	101	105	90	---	98
9	---	---	91	---	---	---	100	103	107	87	---	95
10	---	---	89	91	---	---	96	101	108	87	---	90
11	---	---	89	90	---	---	101	101	102	92	---	---
12	---	---	81	85	---	---	101	96	103	92	---	---
13	---	---	88	91	---	---	99	98	107	84	89	---
14	---	---	95	86	---	---	98	97	109	93	89	---
15	---	---	90	90	---	---	99	99	103	93	87	---
16	---	82	92	92	---	---	100	99	99	91	100	---
17	---	93	84	91	---	---	101	96	103	97	103	---
18	---	95	91	90	---	---	99	94	101	100	97	---
19	---	91	96	86	---	---	98	92	102	97	85	---
20	---	89	94	85	---	---	97	86	103	99	79	---
21	---	87	92	88	---	---	96	89	107	107	---	---
22	---	77	75	87	---	---	95	93	107	115	---	---
23	---	90	97	83	---	---	101	94	104	110	91	---
24	---	94	96	82	---	---	104	94	98	103	92	---
25	---	93	---	86	---	---	---	94	98	95	92	---
26	---	92	---	83	---	---	102	95	101	---	86	---
27	---	73	---	78	---	---	104	95	103	90	92	---
28	---	86	---	70	---	95	104	97	106	95	97	---
29	---	94	---	73	---	94	107	100	104	94	102	---
30	---	93	---	50	---	91	106	101	104	91	98	---
31	---	---	---	88	---	94	---	100	---	94	92	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

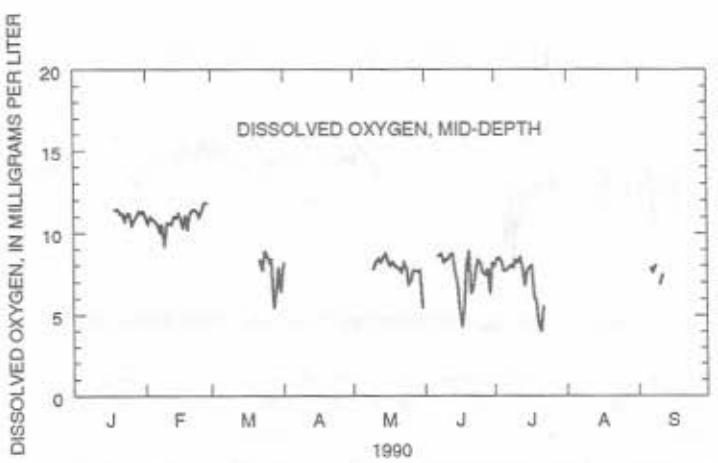
Dissolved Oxygen, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.6 mg/L February 27, 1990; minimum value recorded, 1.7 mg/L July 21, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.9	---	8.1b	---	---	8.0	---	---
2	---	10.6	---	---	---	---	8.4	---	---
3	---	11.0	---	---	---	---	8.5	---	---
4	---	10.8	---	---	---	---	8.2	---	---
5	---	10.7	---	---	---	---	7.7	---	---
6	---	10.5	---	---	---	---	7.7	---	7.8
7	---	10.1	---	---	---	8.6	7.9	---	7.6
8	---	10.5	---	---	---	8.7	8.0	---	8.0
9	---	9.2	---	---	---	8.2	7.9	---	---
10	---	10.6	---	---	7.8	8.3	8.3	---	6.9
11	---	10.6	---	---	8.2	8.4	8.2	---	7.4
12	---	10.5	---	---	8.4	8.7	8.5	---	---
13	---	11.0	---	---	8.2	8.7	7.8	---	---
14	---	10.9	---	---	8.5	7.6	6.8	---	---
15	---	11.2	---	---	8.7	6.9	7.7	---	---
16	---	10.9	---	---	8.3	5.5b	7.9	---	---
17	---	10.3	---	---	8.0	4.3b	8.0	---	---
18	---	11.1	---	---	8.2	5.3b	6.1b	---	---
19	11.4	10.2	---	---	8.0	8.0	5.9b	---	---
20	11.4	11.2	---	---	7.9	8.9	4.4a	---	---
21	11.2	11.4	---	---	7.8	6.3a	4.0a	---	---
22	11.2	11.4	8.3	---	7.6	6.7b	5.5a	---	---
23	10.8	11.3	7.7	---	8.1	7.9	---	---	---
24	11.2	11.0	8.9	---	7.8	8.3	---	---	---
25	11.2	11.3	8.6	---	6.9	8.1	---	---	---
26	10.5	11.8	8.2	---	7.1	7.6	---	---	---
27	10.8	11.8	8.3b	---	7.7	7.4	---	---	---
28	11.0	---	5.4b	---	7.7	7.8	---	---	---
29	11.3	---	6.5b	---	7.6	6.3b	---	---	---
30	11.2	---	7.9	---	7.7	8.1	---	---	---
31	11.3	---	6.4b	---	5.5b	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--**Continued**

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

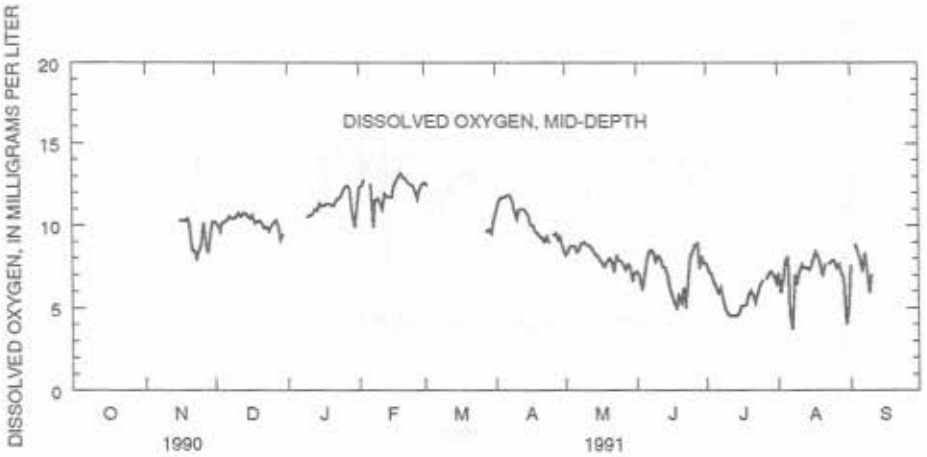
Dissolved Oxygen, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 13.3 mg/L February 19, 1991; minimum value recorded, 1.7 mg/L August 7, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	10.2	---	12.3	12.6	10.8	8.2	7.2	7.6	7.1	7.5b
2	---	---	10.0	---	12.4	12.5	11.4	8.4	6.9	7.1	5.9b	---
3	---	---	9.6	---	12.7	---	11.6	8.7	6.1b	7.1	6.8	8.8
4	---	---	10.1	---	---	---	11.7	8.7	6.7b	6.5	7.8	8.4
5	---	---	10.2	---	---	---	11.7	8.7	7.8	6.3	8.1	8.0
6	---	---	10.3	---	12.5	---	11.8	8.4	8.3	5.9b	4.6a	7.2
7	---	---	10.5	---	9.9	---	11.8	8.5	8.5	6.2	3.7a	8.3
8	---	---	10.4	---	11.5	---	11.5	8.9	8.3	5.6b	7.0	7.4
9	---	---	10.4	---	11.6	---	10.9	9.0	7.8	4.9b	6.4b	5.9b
10	---	---	10.5	10.5	11.3	---	10.4	8.8	8.1	4.6b	7.2	7.0
11	---	---	10.7	10.6	11.0	---	10.9	8.8	8.0	4.5b	7.6	---
12	---	---	10.5	10.7	11.9	---	11.0	8.6	7.5	4.5b	7.4	---
13	---	---	10.7	11.0	11.7	---	11.0	8.5	7.4	4.5b	7.4	---
14	---	---	10.7	10.9	11.7	---	10.8	8.2	6.9	4.5b	7.3	---
15	---	---	10.5	11.3	11.7	---	10.6	8.1	6.2	4.7b	7.5	---
16	---	10.3	10.4	11.2	12.4	---	10.0	7.9	5.7	5.1b	8.0	---
17	---	10.3	10.6	11.2	12.7	---	10.0	7.6	5.3b	5.1b	8.4	---
18	---	10.3	10.1	11.3	13.0	---	9.6	7.5	5.0b	5.2b	8.1	---
19	---	10.4	10.2	11.3	13.2	---	9.5	7.8	5.7b	5.7b	7.5	---
20	---	10.0	10.3	11.2	12.9	---	9.3	8.0	5.3b	6.0	6.9	---
21	---	8.5	10.1	11.2	12.8	---	9.2	7.8	6.2b	5.7	7.6	---
22	---	8.4	9.8	11.5	12.6	---	9.0	7.2	5.0b	5.3	---	---
23	---	8.0	9.9	11.6	12.5	---	9.3	8.2	6.7b	5.9	7.7	---
24	---	8.5	9.6	11.7	12.4	---	9.0	7.9	8.0	6.3	7.9	---
25	---	8.8	9.9	12.1	12.1	---	---	7.8	8.4	6.6	7.9	---
26	---	10.1	10.1	12.3	11.6	---	9.4	7.6	8.8	---	7.4	---
27	---	8.7	10.3	12.4	12.1	---	9.5	7.3	8.9	6.8	7.6	---
28	---	8.3	10.0	12.2	12.5	9.6	9.1	7.6	7.4	7.1	7.1	---
29	---	9.5	9.1	10.7	---	9.7	9.3	7.5	8.0	7.2	6.8b	---
30	---	10.2	9.4	9.9	---	9.5	8.6	6.6	7.7	6.9	4.0b	---
31	---	---	---	11.3	---	10.3	---	7.1	---	6.5	4.6b	---



DAILY MEAN DISSOLVED OXYGEN, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

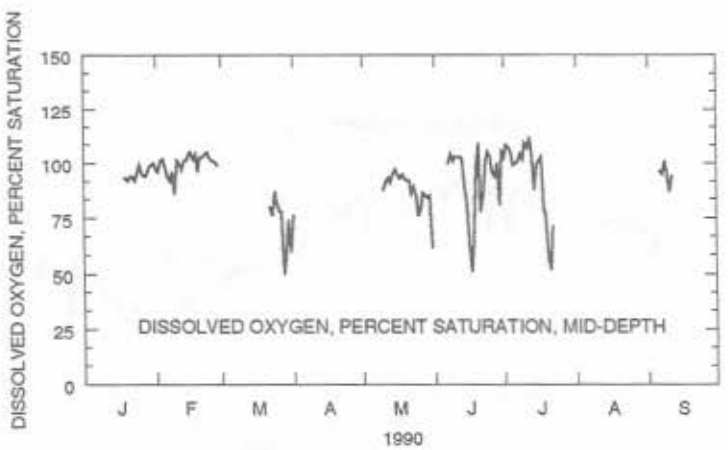
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 149 percent July 12, 1990; minimum value recorded, 22 percent July 21, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	97	---	76	---	---	103	---	---
2	---	96	---	---	---	---	108	---	---
3	---	101	---	---	---	---	107	---	---
4	---	102	---	---	---	---	104	---	---
5	---	98	---	---	---	---	99	---	---
6	---	94	---	---	---	---	100	---	96
7	---	92	---	---	---	100	101	---	95
8	---	96	---	---	---	104	104	---	101
9	---	86	---	---	---	101	102	---	---
10	---	101	---	---	88	103	109	---	87
11	---	100	---	---	91	103	107	---	94
12	---	97	---	---	93	103	112	---	---
13	---	101	---	---	91	102	102	---	---
14	---	101	---	---	95	89	88	---	---
15	---	104	---	---	97	80	99	---	---
16	---	105	---	---	95	64	101	---	---
17	---	102	---	---	93	51	103	---	---
18	---	104	---	---	95	64	79	---	---
19	93	96	---	---	93	97	76	---	---
20	92	103	---	---	92	109	57	---	---
21	94	103	---	---	92	78	52	---	---
22	94	104	80	---	86	85	71	---	---
23	92	105	76	---	89	101	---	---	---
24	96	103	87	---	85	105	---	---	---
25	99	101	82	---	76	103	---	---	---
26	95	101	78	---	79	96	---	---	---
27	94	99	78	---	86	94	---	---	---
28	95	---	50	---	85	100	---	---	---
29	98	---	60	---	84	81	---	---	---
30	99	---	74	---	85	105	---	---	---
31	100	---	60	---	62	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

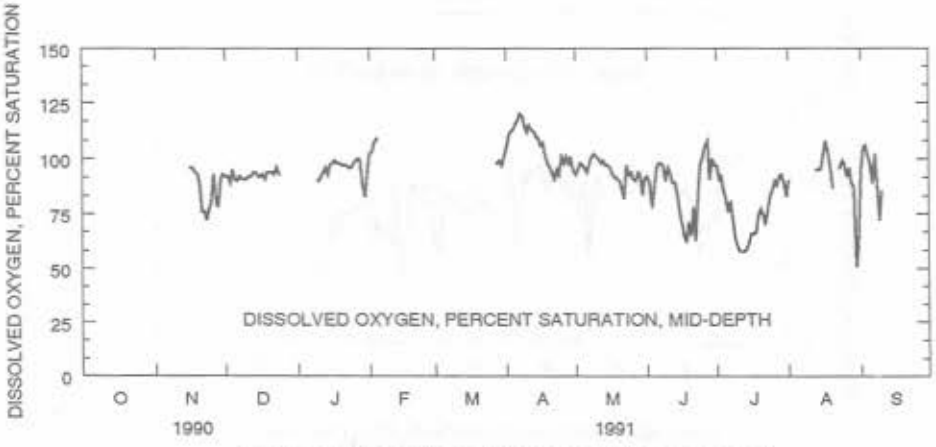
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--10 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 126 percent April 7, 1991; minimum value recorded, 27 percent August 30, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	92	---	102	---	104	93	92	97	90	95
2	---	---	92	---	103	---	110	95	89	91	---	---
3	---	---	89	---	107	---	112	98	78	92	---	106
4	---	---	95	---	---	---	113	97	86	85	---	101
5	---	---	91	---	---	---	115	96	96	82	---	98
6	---	---	90	---	---	---	117	94	98	76	---	89
7	---	---	92	---	---	---	120	97	98	81	---	102
8	---	---	91	---	---	---	119	101	96	73	---	89
9	---	---	91	---	---	---	115	102	90	64	---	72
10	---	---	91	90	---	---	112	101	96	60	---	85
11	---	---	92	92	---	---	115	100	94	58	---	---
12	---	---	92	94	---	---	113	98	89	58	---	---
13	---	---	94	96	---	---	112	99	89	58	95	---
14	---	---	94	93	---	---	110	97	83	59	95	---
15	---	---	92	97	---	---	109	97	76	62	96	---
16	---	96	92	98	---	---	106	96	70	66	103	---
17	---	96	93	99	---	---	107	93	65	66	108	---
18	---	94	91	98	---	---	102	92	62	67	103	---
19	---	93	94	98	---	---	98	91	71	74	95	---
20	---	89	94	97	---	---	96	90	65	77	87	---
21	---	76	94	97	---	---	93	87	78	74	---	---
22	---	76	93	97	---	---	91	82	63	70	---	---
23	---	72	96	96	---	---	95	97	84	77	96	---
24	---	77	93	96	---	---	93	93	97	83	99	---
25	---	80	---	98	---	---	---	94	101	86	98	---
26	---	93	---	99	---	---	98	91	106	---	92	---
27	---	80	---	100	---	---	101	90	108	88	96	---
28	---	78	---	99	---	98	98	94	91	92	89	---
29	---	91	---	88	---	99	101	93	100	93	87	---
30	---	93	---	83	---	97	95	84	97	89	51	---
31	---	---	---	96	---	100	---	91	---	83	59	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

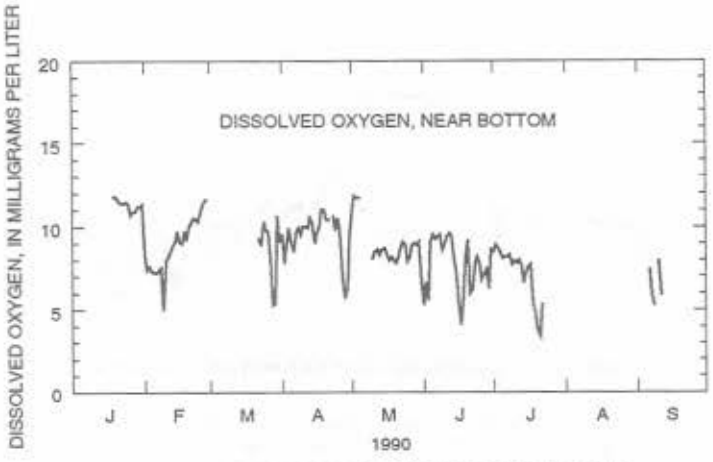
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.8 mg/L May 2, 1990; minimum value recorded, <1.0 mg/L July 21, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	8.3	---	9.5	10.9	5.3	8.5	---	---
2	---	7.4	---	7.8	11.8	6.6	8.9	---	---
3	---	7.6	---	9.0	11.7	5.6	8.7	---	---
4	---	7.3	---	9.9	11.7	9.1	8.4	---	---
5	---	7.3	---	9.0	---	9.5	8.1	---	---
6	---	7.2	---	8.5	---	9.3	8.2	---	7.4
7	---	7.4	---	9.7	---	9.4	8.2	---	6.0
8	---	7.5	---	9.9	---	9.5	8.3	---	5.3
9	---	5.0	---	9.5	---	8.6	7.7	---	---
10	---	7.9	---	10.0	8.1	8.9	7.9	---	7.9
11	---	8.2	---	10.0	8.5	9.4	7.8	---	5.9
12	---	8.5	---	9.9	8.6	9.6	8.0	---	---
13	---	8.9	---	10.5	8.3	9.5	7.6	---	---
14	---	9.1	---	10.2	8.6	8.1	6.6	---	---
15	---	9.7	---	9.0	8.7	7.0	7.3	---	---
16	---	9.1	---	9.6	8.4	5.6	7.5	---	---
17	---	9.0	---	10.0	8.0	4.1	7.7	---	---
18	---	9.7	---	11.0	8.2	5.3	5.3	---	---
19	11.8	9.2	---	11.0	8.0	8.1	4.9	---	---
20	11.7	10.0	---	10.4	7.8	9.2	3.7	---	---
21	11.5	10.3	---	10.4	8.2	6.0	3.4	---	---
22	11.4	10.5	9.3	---	8.7	6.2	5.3	---	---
23	11.4	10.4	8.9	10.6	9.1	7.7	---	---	---
24	11.5	10.3	10.3	9.8	8.9	8.2	---	---	---
25	11.4	10.9	9.8	10.5	7.9	7.8	---	---	---
26	10.7	11.4	9.7	9.8	8.2	6.8	---	---	---
27	10.9	11.6	8.2	7.0	8.9	7.1	---	---	---
28	10.9	---	5.3	5.7	9.0	7.4	---	---	---
29	11.2	---	5.4	6.3	8.9	6.3	---	---	---
30	11.2	---	10.6	9.3	9.1	8.6	---	---	---
31	11.3	---	9.1	---	6.7	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

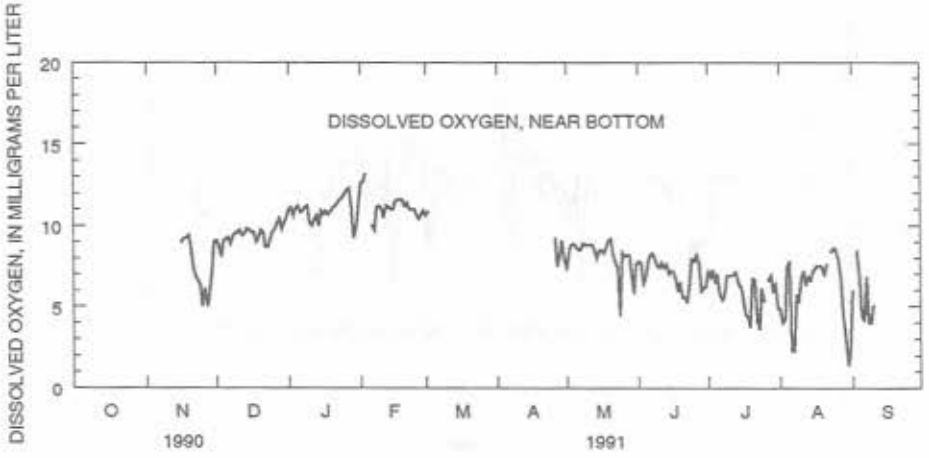
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 13.4 mg/L February 3, 1991; minimum value recorded, <1.0 mg/L August 29, 30, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	9.1	11.0	12.6	10.6	---	7.3	7.8	7.1	4.8	5.9
2	---	---	8.7	11.1	12.7	10.8	---	8.5	7.7	6.8	4.0	---
3	---	---	8.1	10.6	13.1	---	---	8.8	6.4	7.3	4.2	8.4
4	---	---	9.1	11.0	---	---	---	8.9	6.7	6.4	7.4	6.7
5	---	---	9.2	11.2	---	---	---	8.7	7.7	7.0	7.8	4.4
6	---	---	9.3	10.8	10.0	---	---	8.5	8.2	5.7	2.3	4.1
7	---	---	8.9	10.9	9.7	---	---	8.5	8.3	5.4	2.3	6.8
8	---	---	9.4	11.1	11.1	---	---	8.9	7.9	5.6	5.7	4.0
9	---	---	9.5	11.2	11.2	---	---	8.8	7.5	6.9	5.2	4.0
10	---	---	9.6	10.2	11.0	---	---	8.8	7.4	6.9	6.7	5.0
11	---	---	9.7	10.0	10.5	---	---	8.8	7.7	6.9	7.2	---
12	---	---	9.4	10.4	11.2	---	---	8.8	7.4	7.0	6.3	---
13	---	---	9.5	10.6	11.1	---	---	8.5	7.6	7.1	6.8	---
14	---	---	9.8	10.0	11.0	---	---	8.0	7.0	6.4	6.6	---
15	---	---	9.7	10.9	11.0	---	---	8.5	7.2	6.2	7.1	---
16	---	9.0	9.6	10.7	11.5	---	---	8.5	7.1	5.6	7.4	---
17	---	9.2	9.6	10.9	11.6	---	---	8.3	6.7	4.5	7.5	---
18	---	9.3	9.0	10.7	11.6	---	---	8.6	5.9	4.3	7.5	---
19	---	9.4	9.2	10.9	11.6	---	---	9.1	6.5	3.7	7.4	---
20	---	8.8	9.7	11.1	11.2	---	---	9.2	5.5	6.7	6.9	---
21	---	7.4	9.6	11.2	11.4	---	---	8.3	5.5	6.6	7.6	---
22	---	6.8	8.7	11.4	11.0	---	---	7.7	5.2	4.1	---	---
23	---	6.6	8.7	11.6	11.0	---	---	7.4	6.5	3.6	8.4	---
24	---	6.3	9.2	11.7	11.0	---	---	4.4	7.9	6.1	8.6	---
25	---	5.0	9.6	12.0	10.7	---	---	8.3	7.8	5.3	8.5	---
26	---	6.1	9.8	12.2	10.4	---	9.2	8.1	8.2	---	7.9	---
27	---	5.0	10.2	12.3	10.6	---	7.5	8.2	7.6	6.6	6.6	---
28	---	5.8	10.4	11.4	10.9	9.2	8.2	8.2	5.9	6.9	4.5	---
29	---	7.2	9.8	9.3	---	---	9.1	7.1	6.2	6.0	3.1	---
30	---	9.0	10.1	9.8	---	---	8.0	5.8	6.2	6.3	1.4	---
31	---	---	10.5	11.4	---	---	---	7.6	---	4.8	2.2	---



DAILY MEAN DISSOLVED OXYGEN, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

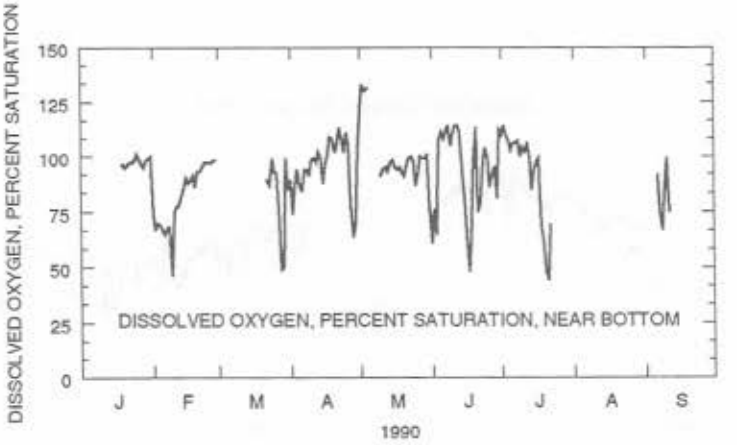
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 144 percent May 2, 1990; minimum value recorded, <10 percent July 21, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	74	---	89	122	61	110	---	---
2	---	67	---	74	133	76	114	---	---
3	---	70	---	87	130	65	110	---	---
4	---	69	---	94	131	107	107	---	---
5	---	67	---	87	---	111	103	---	---
6	---	65	---	84	---	108	106	---	91
7	---	68	---	94	---	111	106	---	75
8	---	68	---	94	---	114	107	---	67
9	---	46	---	91	---	105	100	---	---
10	---	75	---	98	91	110	104	---	99
11	---	77	---	99	94	114	102	---	75
12	---	78	---	97	95	114	106	---	---
13	---	82	---	102	93	111	99	---	---
14	---	85	---	99	97	94	85	---	---
15	---	90	---	88	98	81	94	---	---
16	---	88	---	96	95	65	97	---	---
17	---	89	---	101	94	48	99	---	---
18	---	91	---	109	95	63	68	---	---
19	96	86	---	108	93	98	63	---	---
20	95	93	---	102	91	113	48	---	---
21	96	93	---	105	96	75	44	---	---
22	97	95	89	---	99	79	69	---	---
23	97	97	87	108	100	98	---	---	---
24	98	97	99	102	97	104	---	---	---
25	101	97	93	111	87	99	---	---	---
26	98	97	92	106	92	86	---	---	---
27	96	98	77	78	100	91	---	---	---
28	95	---	49	64	99	95	---	---	---
29	98	---	50	71	99	81	---	---	---
30	99	---	99	103	101	112	---	---	---
31	100	---	85	---	76	---	---	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 20.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991*--Continued

[Location of site 10 is latitude 35°55'00", longitude 75°44'50", Dare County; U.S. Geological Survey downstream order number 0208117950]

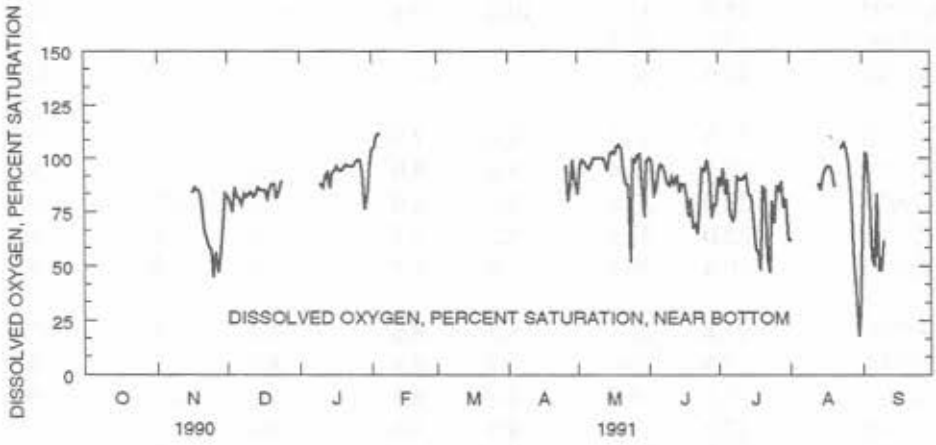
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 118 percent August 23, 24, 1991; minimum value recorded, <10 percent August 29, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	82	---	104	---	---	83	100	91	62	75
2	---	---	79	---	105	---	---	97	99	87	---	---
3	---	---	75	---	110	---	---	99	83	95	---	101
4	---	---	86	---	---	---	---	98	85	83	---	81
5	---	---	82	---	---	---	---	96	94	90	---	54
6	---	---	81	---	---	---	---	95	97	74	---	50
7	---	---	78	---	---	---	---	97	96	71	---	83
8	---	---	83	---	---	---	---	100	92	73	---	48
9	---	---	82	---	---	---	---	100	88	91	---	48
10	---	---	83	88	---	---	---	100	87	90	---	61
11	---	---	84	86	---	---	---	100	91	90	---	---
12	---	---	82	92	---	---	---	100	88	91	---	---
13	---	---	83	93	---	---	---	98	92	92	88	---
14	---	---	86	86	---	---	---	94	84	83	85	---
15	---	---	85	93	---	---	---	102	88	82	91	---
16	---	84	85	94	---	---	---	103	88	73	95	---
17	---	86	85	96	---	---	---	102	84	58	96	---
18	---	85	81	94	---	---	---	105	73	56	96	---
19	---	84	85	94	---	---	---	106	81	48	93	---
20	---	78	88	96	---	---	---	104	68	86	87	---
21	---	66	88	97	---	---	---	94	69	85	---	---
22	---	62	81	96	---	---	---	88	65	54	---	---
23	---	59	84	96	---	---	---	87	81	47	105	---
24	---	57	89	96	---	---	---	52	95	80	107	---
25	---	45	---	98	---	---	---	99	94	70	105	---
26	---	56	---	99	---	---	96	98	99	87	98	---
27	---	47	---	99	---	---	80	101	92	85	83	---
28	---	54	---	93	---	93	88	102	73	89	57	---
29	---	69	---	76	---	---	99	88	78	77	40	---
30	---	83	---	82	---	---	89	73	78	81	18	---
31	---	---	---	97	---	---	---	98	---	62	28	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, CROATAN SOUND AT U.S. HIGHWAY 264 BRIDGE

Table 21.--*Five-day mean water temperature and dissolved-oxygen values in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/30/89-01/03/90	---	---	---	---	---	---	---	---
01/04/90-01/08/90	---	---	---	---	---	---	---	---
01/09/90-01/13/90	---	---	---	---	---	---	---	---
01/14/90-01/18/90	6.6	7.0	12.3	12.0	11.6	11.4	11.2	11.5
01/19/90-01/23/90	7.4	7.4	11.6	11.5	11.3	11.1	11.6	11.5
01/24/90-01/28/90	9.8	9.6	11.0	11.0	11.0	10.9	11.1	11.0
01/29/90-02/02/90	10.0	10.2	11.3	11.2	11.2	10.8	10.0	9.2
02/03/90-02/07/90	11.5	11.3	10.8	10.6	10.9	10.4	7.6	7.3
02/08/90-02/12/90	12.1	11.9	10.7	10.5	10.4	10.2	7.5	7.4
02/13/90-02/17/90	12.9	12.8	10.8	10.6	11.1	10.7	9.3	9.1
02/18/90-02/22/90	11.7	11.6	11.0	10.8	11.2	11.0	10.0	10.0
02/23/90-02/27/90	10.0	9.5	11.2	11.2	11.5	11.4	11.0	11.0
02/28/90-03/04/90	7.8	---	12.1	---	12.2	---	12.1	---
03/05/90-03/09/90	---	---	---	---	---	---	---	---
03/10/90-03/14/90	---	---	---	---	---	---	---	---
03/15/90-03/19/90	---	---	---	---	---	---	---	---
03/20/90-03/24/90	13.8	13.6	9.3	9.0	8.4	8.3	9.4	9.5
03/25/90-03/29/90	12.4	12.1	9.8	9.7	7.7	7.0	7.6	7.9
03/30/90-04/03/90	12.9	12.7	9.8	9.9	7.7	7.0	9.3	9.0
04/04/90-04/08/90	13.8	13.5	10.1	9.9	---	---	9.4	9.2
04/09/90-04/13/90	14.4	14.1	10.4	10.2	---	---	10.0	10.1
04/14/90-04/18/90	15.0	14.8	10.5	10.3	---	---	10.2	9.8
04/19/90-04/23/90	15.7	15.6	10.6	10.4	---	---	10.9	10.3
04/24/90-04/28/90	19.8	19.5	---	---	---	---	8.7	7.7
04/29/90-05/03/90	20.9	20.7	---	---	---	---	10.8	10.0
05/04/90-05/08/90	21.0	20.7	8.6	7.9	---	8.0	11.9	9.1
05/09/90-05/13/90	20.5	20.4	8.4	8.0	8.2	8.1	8.5	8.3
05/14/90-05/18/90	22.0	21.8	8.3	8.0	8.4	8.2	8.5	8.3
05/19/90-05/23/90	22.0	21.5	8.2	8.1	7.9	7.9	8.5	8.5
05/24/90-05/28/90	20.4	20.1	8.8	8.5	7.5	7.3	8.7	8.4
05/29/90-06/02/90	21.4	21.3	8.7	8.5	6.6	7.1	7.5	6.3
06/03/90-06/07/90	22.9	23.0	9.3	8.8	8.7	8.5	8.9	9.2
06/08/90-06/12/90	25.1	24.8	9.0	8.8	8.6	8.4	9.2	9.1
06/13/90-06/17/90	22.9	22.8	9.5	8.6	6.4	6.2	6.5	6.4
06/18/90-06/22/90	26.1	25.8	9.1	8.5	7.1	7.5	7.0	7.5

Table 21.--***Five-day mean water temperature and dissolved-oxygen values in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991, for day and night periods***--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/23/90-06/27/90	27.6	27.3	8.7	8.1	8.0	7.6	7.8	7.0
06/28/90-07/02/90	28.5	28.0	8.8	8.4	7.7	8.0	8.1	8.3
07/03/90-07/07/90	28.1	28.0	8.3	7.8	8.1	7.8	8.4	8.2
07/08/90-07/12/90	29.2	29.0	7.4	6.8	8.3	8.1	8.0	7.8
07/13/90-07/17/90	28.7	28.3	7.6	7.2	7.6	7.2	7.4	6.7
07/18/90-07/22/90	28.9	28.4	8.2	7.3	4.8	5.9	4.2	5.3
07/23/90-07/27/90	28.8	---	7.8	---	7.3	---	7.1	---
07/28/90-08/01/90	---	---	---	---	---	---	---	---
08/02/90-08/06/90	---	---	---	---	---	---	---	---
08/07/90-08/11/90	---	---	---	---	---	---	---	---
08/12/90-08/16/90	---	---	---	---	---	---	---	---
08/17/90-08/21/90	---	---	---	---	---	---	---	---
08/22/90-08/26/90	---	---	---	---	---	---	---	---
08/27/90-08/31/90	---	---	---	---	---	---	---	---
09/01/90-09/05/90	25.8	25.5	8.3	7.1	8.4	7.6	9.8	8.0
09/06/90-09/10/90	26.6	26.4	7.9	7.5	7.7	7.4	6.8	6.5
09/11/90-09/15/90	27.1	26.7	7.8	7.0	7.7	7.7	5.9	3.8
09/16/90-09/20/90	24.7	24.0	8.3	7.8	---	---	---	---
09/21/90-09/25/90	22.9	22.5	8.1	7.6	---	---	---	---
09/26/90-09/30/90	22.6	22.5	8.3	7.0	---	---	---	---
10/01/90-10/05/90	23.2	23.0	8.3	7.7	---	---	---	---
10/06/90-10/10/90	---	---	---	---	---	---	---	---
10/11/90-10/15/90	26.0	25.4	---	---	5.4	5.5	---	---
10/16/90-10/20/90	22.8	22.3	---	---	---	---	---	---
10/21/90-10/25/90	20.6	20.2	---	---	---	---	---	---
10/26/90-10/30/90	15.3	14.7	---	---	---	---	---	---
10/31/90-11/04/90	15.8	15.6	---	---	---	---	---	---
11/05/90-11/09/90	16.0	15.8	---	---	---	---	---	---
11/10/90-11/14/90	13.7	13.3	---	8.0	---	10.0	---	10.7
11/15/90-11/19/90	11.6	11.2	9.8	9.4	10.4	10.3	9.3	9.2
11/20/90-11/24/90	10.7	10.6	10.1	9.5	8.7	8.3	7.1	6.6
11/25/90-11/29/90	12.3	12.0	9.7	9.1	9.1	9.3	5.8	6.4
11/30/90-12/04/90	11.6	11.3	9.8	8.9	10.1	10.0	8.9	8.8
12/05/90-12/09/90	9.6	9.2	10.2	10.1	10.4	10.3	9.3	9.3
12/10/90-12/14/90	9.3	9.1	10.4	9.9	10.6	10.6	9.6	9.6

Table 21.--*Five-day mean water temperature and dissolved-oxygen values in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/15/90-12/19/90	10.4	10.4	10.2	10.0	10.5	10.1	9.6	9.3
12/20/90-12/24/90	12.7	12.7	10.0	9.2	10.0	9.9	9.2	9.0
12/25/90-12/29/90	---	---	10.1	9.8	9.9	9.8	10.0	10.0
12/30/90-01/03/91	---	---	10.3	10.3	9.6	9.4	10.7	10.7
01/04/91-01/08/91	---	---	10.5	9.5	---	---	11.2	11.0
01/09/91-01/13/91	9.1	8.9	10.4	10.2	10.8	10.7	10.5	10.3
01/14/91-01/18/91	9.3	9.0	10.5	10.3	11.2	11.2	10.7	10.7
01/19/91-01/23/91	8.3	8.0	10.1	10.0	11.4	11.4	11.3	11.2
01/24/91-01/28/91	6.4	6.3	10.0	9.4	12.2	12.1	12.0	11.6
01/29/91-02/02/91	7.4	7.3	9.1	7.4	11.4	11.4	11.3	11.6
02/03/91-02/07/91	8.2	8.0	10.7	10.8	12.0	12.1	11.8	11.4
02/08/91-02/12/91	---	---	12.7	12.4	11.6	11.4	11.1	11.0
02/13/91-02/17/91	---	---	14.1	14.1	12.1	12.2	11.3	11.3
02/18/91-02/22/91	---	---	15.1	14.8	12.9	12.8	11.4	11.2
02/23/91-02/27/91	---	---	13.5	13.0	12.3	12.0	10.9	10.6
02/28/91-03/04/91	---	---	13.4	13.5	12.5	12.4	10.7	10.7
03/05/91-03/09/91	---	---	---	---	---	---	---	---
03/10/91-03/14/91	---	---	---	---	---	---	---	---
03/15/91-03/19/91	---	---	---	---	---	---	---	---
03/20/91-03/24/91	---	---	---	---	---	---	---	---
03/25/91-03/29/91	15.9	16.2	9.5	9.1	9.8	9.5	9.5	9.2
03/30/91-04/03/91	14.4	13.8	10.1	10.0	10.9	10.9	---	---
04/04/91-04/08/91	15.6	15.6	10.5	10.1	11.8	11.5	---	---
04/09/91-04/13/91	17.5	17.2	9.7	9.3	11.0	10.6	---	---
04/14/91-04/18/91	17.7	17.5	9.6	9.3	10.3	9.9	---	---
04/19/91-04/23/91	16.4	16.0	9.7	9.5	9.3	9.1	---	---
04/24/91-04/28/91	17.8	17.6	9.9	9.6	9.4	9.3	8.6	8.4
04/29/91-05/03/91	20.9	20.8	9.4	9.1	8.8	8.4	8.5	8.2
05/04/91-05/08/91	21.0	20.9	8.8	8.7	8.7	8.6	8.7	8.6
05/09/91-05/13/91	21.9	21.8	8.8	8.6	8.8	8.6	8.8	8.6
05/14/91-05/18/91	24.7	24.5	8.2	7.9	8.0	7.7	8.5	8.5
05/19/91-05/23/91	22.2	21.7	8.0	7.8	7.9	7.7	8.4	7.7
05/24/91-05/28/91	25.2	24.9	8.0	7.7	7.8	7.5	7.3	7.9
05/29/91-06/02/91	28.0	27.8	8.0	7.6	7.2	6.6	7.3	6.9
06/03/91-06/07/91	25.6	24.8	8.5	8.4	7.8	7.5	7.7	7.4

Table 21.--*Five-day mean water temperature and dissolved-oxygen values in water at site 10, Croatan Sound at U.S. Highway 264 bridge, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/08/91-06/12/91	23.5	23.3	9.0	8.8	7.9	7.8	7.5	7.6
06/13/91-06/17/91	25.6	25.4	8.7	8.3	6.3	5.8	7.1	6.9
06/18/91-06/22/91	26.6	26.3	8.4	8.2	5.5	5.5	5.7	5.7
06/23/91-06/27/91	25.1	24.7	8.4	8.2	8.4	8.3	7.7	7.5
06/28/91-07/02/91	27.3	27.0	8.4	7.9	7.6	7.4	6.6	6.6
07/03/91-07/07/91	28.9	28.6	8.0	7.4	6.5	6.1	6.4	5.9
07/08/91-07/12/91	29.4	29.1	7.0	6.6	4.8	4.6	6.9	6.7
07/13/91-07/17/91	29.1	28.7	7.3	7.0	4.7	4.9	5.7	5.6
07/18/91-07/22/91	28.7	28.4	8.3	7.8	5.6	5.6	5.2	5.0
07/23/91-07/27/91	29.4	29.0	7.6	7.0	6.6	6.6	5.5	6.2
07/28/91-08/01/91	28.1	27.8	7.7	7.2	7.1	6.6	5.9	5.1
08/02/91-08/06/91	---	---	8.2	7.3	6.7	6.1	5.3	4.7
08/07/91-08/11/91	---	28.8	7.3	6.7	6.8	6.7	5.8	5.8
08/12/91-08/16/91	28.3	27.8	7.5	7.0	7.6	7.6	6.6	7.0
08/17/91-08/21/91	27.6	27.5	7.5	7.0	7.9	7.5	7.7	7.3
08/22/91-08/26/91	26.7	26.5	7.5	7.1	7.8	7.6	8.3	8.2
08/27/91-08/31/91	27.9	27.5	8.0	7.2	6.3	5.7	3.6	2.8
09/01/91-09/05/91	25.6	24.9	7.9	7.3	8.3	8.4	6.8	7.0
09/06/91-09/10/91	25.4	24.9	8.2	7.6	7.3	7.0	4.8	5.1
09/11/91-09/15/91	24.9	---	7.2	---	7.1	---	6.7	---
09/16/91-09/20/91	---	---	---	---	---	---	---	---
09/21/91-09/25/91	---	---	---	---	---	---	---	---
09/26/91-09/30/91	---	---	---	---	---	---	---	---

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

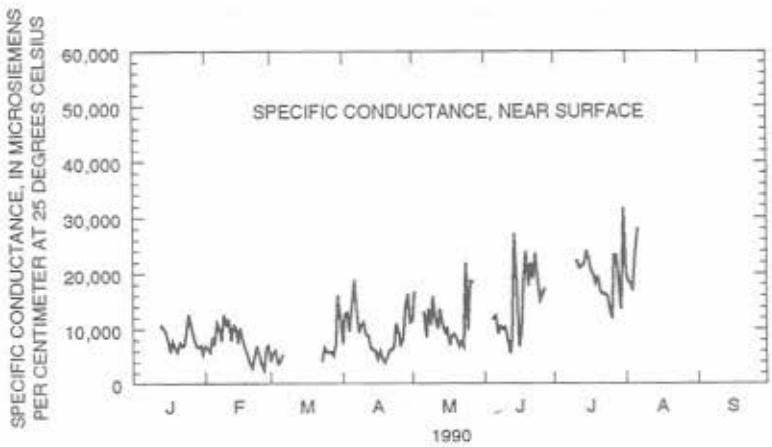
Specific Conductance, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 38,500 µS/cm June 14, 1990; minimum value recorded, 2,150 µS/cm February 26, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	6,860	4,160	7,360	11,500	---	---	19,800	---
2	---	6,590	5,480	12,700	16,600	---	---	18,400	---
3	---	5,810	6,020	12,900	---	---	---	18,100	---
4	---	8,540	3,660	9,650	---	---	---	16,900	---
5	---	7,100	4,140	13,800	---	11,800	---	23,700	---
6	---	11,000	5,240	18,800	12,900	12,300	---	27,900	---
7	---	10,000	---	12,700	8,510	9,110	---	---	---
8	---	7,790	---	9,440	13,600	10,400	---	---	---
9	---	12,600	---	10,700	10,800	10,000	---	---	---
10	---	10,600	---	11,200	15,800	10,300	---	---	---
11	---	11,700	---	8,940	11,500	8,440	22,200	---	---
12	---	7,970	---	8,710	10,100	5,630	21,000	---	---
13	10,500	10,500	---	6,620	13,600	8,160	21,400	---	---
14	10,100	10,200	---	6,160	10,900	27,000	21,600	---	---
15	9,400	7,440	---	5,990	9,320	17,900	24,000	---	---
16	7,680	10,200	---	4,570	9,930	6,940	22,900	---	---
17	5,830	7,930	---	5,970	7,100	9,390	20,700	---	---
18	7,680	6,270	---	4,620	8,770	18,200	19,700	---	---
19	6,670	5,500	---	3,810	9,060	23,800	18,200	---	---
20	5,780	3,660	---	4,870	8,210	17,700	19,500	---	---
21	7,490	2,890	---	5,960	6,940	21,800	16,500	---	---
22	6,840	4,920	---	6,140	7,580	19,000	16,300	---	---
23	7,170	6,960	4,310	6,930	6,760	23,600	16,200	---	---
24	10,100	5,590	6,540	10,900	21,900	19,600	15,800	---	---
25	12,500	3,560	5,900	9,450	9,890	15,200	13,700	---	---
26	10,300	2,520	5,760	6,940	18,500	15,900	11,800	---	---
27	8,380	6,510	5,910	8,370	18,400	17,100	23,300	---	---
28	7,130	6,910	5,180	14,000	---	---	23,100	---	---
29	6,640	---	7,660	16,300	---	---	17,200	---	---
30	7,000	---	16,100	11,300	---	---	13,600	---	---
31	5,500	---	12,000	---	---	---	31,500	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

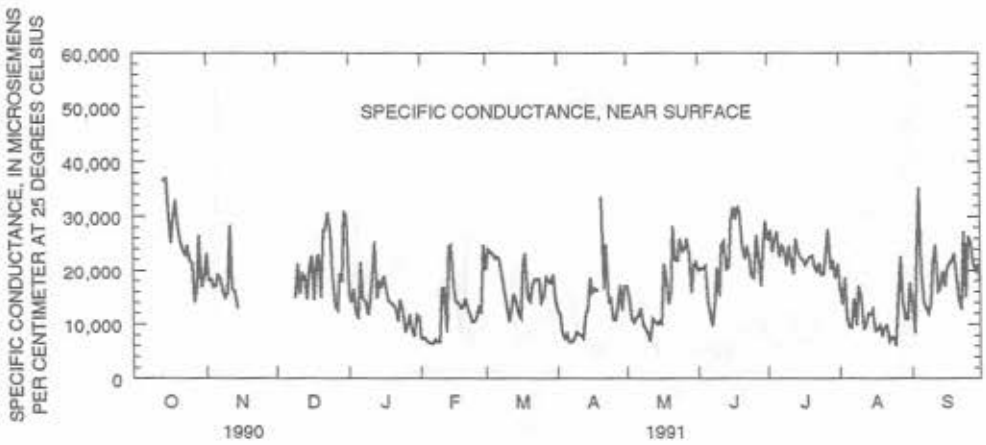
Specific Conductance, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 49,400 µS/cm April 20, 1991; minimum value recorded, 5,870 µS/cm August 25, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR SURFACE (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	23,100	---	15,600	7,360	20,200	12,400	17,000	19,900	25,600	17,000	14,000
2	---	18,100	---	13,900	7,490	23,800	11,700	14,100	20,400	27,400	13,700	8,480
3	---	18,200	---	16,400	7,080	23,400	8,250	11,000	20,300	23,500	18,600	23,200
4	---	16,900	---	12,200	6,550	22,900	7,410	10,300	20,800	26,000	11,300	35,200
5	---	17,100	---	11,000	6,450	22,200	8,140	11,100	13,900	27,100	9,500	19,800
6	---	19,000	---	21,300	6,360	22,400	6,680	11,600	12,000	22,500	9,410	13,800
7	---	18,400	---	14,500	7,140	21,800	6,630	12,900	9,770	24,600	14,600	12,800
8	---	16,000	---	14,200	6,620	18,700	7,500	9,930	14,500	24,000	9,880	12,000
9	---	14,900	15,000	11,700	6,650	15,600	8,440	9,080	20,400	20,900	17,000	14,000
10	---	15,800	21,100	13,700	16,700	13,400	8,110	8,270	15,100	24,600	15,000	21,100
11	---	28,300	15,600	18,900	16,700	10,400	7,920	6,940	24,700	21,800	9,220	24,700
12	---	16,500	19,200	25,200	8,620	12,400	7,390	11,000	25,400	19,400	9,530	16,100
13	---	16,000	18,700	14,800	24,400	15,500	12,000	10,600	20,300	25,800	11,900	16,600
14	36,700	13,000	14,700	17,600	24,700	14,000	12,500	10,000	20,800	23,600	11,700	19,700
15	36,900	---	20,300	17,000	17,000	11,700	18,600	10,500	29,300	22,200	12,500	17,000
16	31,300	---	22,700	18,900	14,100	11,200	15,800	9,800	31,600	22,000	8,840	20,400
17	25,100	---	14,500	16,800	13,900	21,000	16,500	21,100	29,500	21,000	8,920	21,200
18	29,000	---	21,300	14,200	12,900	23,200	16,200	19,300	31,800	21,900	9,750	21,800
19	32,900	---	22,900	13,800	13,000	14,900	---	13,700	30,500	22,400	7,850	23,200
20	27,900	---	14,900	13,400	14,700	14,200	33,300	16,000	24,300	22,700	9,400	18,400
21	24,900	---	27,300	12,800	12,800	17,000	16,600	28,100	22,200	20,400	9,700	14,700
22	23,800	---	27,600	10,600	11,800	18,300	24,800	21,800	24,400	19,800	6,870	12,800
23	22,900	---	30,500	14,400	10,400	18,200	14,000	21,700	22,400	21,200	7,620	27,100
24	24,600	---	27,300	12,700	10,500	18,300	15,000	25,800	18,900	19,100	7,640	15,000
25	21,700	---	19,000	8,510	11,400	14,100	10,900	23,600	18,600	19,300	6,060	26,300
26	21,100	---	13,200	9,430	13,400	15,000	10,800	23,900	26,400	23,900	14,900	25,100
27	14,000	---	12,500	11,700	12,000	18,500	13,300	25,800	21,800	27,500	22,500	21,500
28	16,900	---	18,900	9,290	24,700	17,900	17,200	22,900	17,200	20,200	14,200	20,000
29	26,400	---	18,200	7,780	---	17,600	12,600	15,800	25,000	21,900	11,000	21,000
30	16,900	---	30,800	11,600	---	19,100	17,000	20,900	29,200	18,500	11,000	18,400
31	18,500	---	29,900	11,300	---	14,900	---	21,500	---	21,100	17,600	---



DAILY MEAN SPECIFIC CONDUCTANCE, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

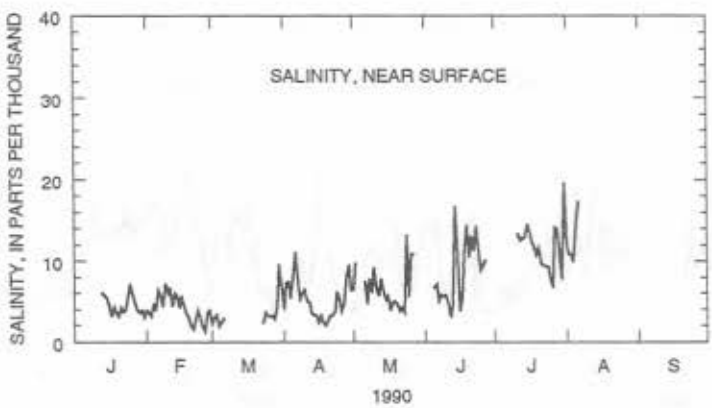
Salinity, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 24.4 ppt June 14, 1990; minimum value recorded, 1.1 ppt February 26, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	3.8	2.2	4.0	6.5	---	---	11.8	---
2	---	3.6	2.9	7.3	9.7	---	---	10.9	---
3	---	3.1	3.3	7.4	---	---	---	10.7	---
4	---	4.7	1.9	5.4	---	---	---	9.9	---
5	---	3.9	2.2	8.0	---	6.7	---	14.4	---
6	---	6.3	2.8	11.1	7.4	7.1	---	17.2	---
7	---	5.6	---	7.3	4.7	5.1	---	---	---
8	---	4.3	---	5.3	7.8	5.8	---	---	---
9	---	7.2	---	6.0	6.1	5.6	---	---	---
10	---	6.0	---	6.4	9.2	5.8	---	---	---
11	---	6.7	---	5.0	6.6	4.7	13.3	---	---
12	---	4.4	---	4.8	5.7	3.0	12.5	---	---
13	5.9	5.9	---	3.6	7.8	4.5	12.8	---	---
14	5.7	5.7	---	3.3	6.2	16.7	12.9	---	---
15	5.3	4.1	---	3.2	5.2	10.6	14.5	---	---
16	4.2	5.7	---	2.4	5.6	3.8	13.8	---	---
17	3.1	4.4	---	3.2	3.9	5.3	12.4	---	---
18	4.2	3.4	---	2.4	4.9	10.9	11.7	---	---
19	3.6	3.0	---	2.0	5.0	14.4	10.8	---	---
20	3.1	1.9	---	2.6	4.5	10.5	11.6	---	---
21	4.1	1.5	---	3.2	3.8	13.1	9.6	---	---
22	3.7	2.6	---	3.3	4.2	11.3	9.5	---	---
23	3.9	3.8	2.3	3.8	3.7	14.2	9.4	---	---
24	5.7	3.0	3.6	6.2	13.2	11.7	9.2	---	---
25	7.1	1.9	3.2	5.3	5.6	8.9	7.9	---	---
26	5.8	1.3	3.1	3.8	10.9	9.3	6.7	---	---
27	4.6	3.6	3.2	4.6	10.9	10.1	14.1	---	---
28	3.9	3.8	2.8	8.1	---	---	13.9	---	---
29	3.6	---	4.3	9.5	---	---	10.1	---	---
30	3.8	---	9.6	6.4	---	---	7.8	---	---
31	3.0	---	6.9	---	---	---	19.6	---	---



DAILY MEAN SALINITY, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

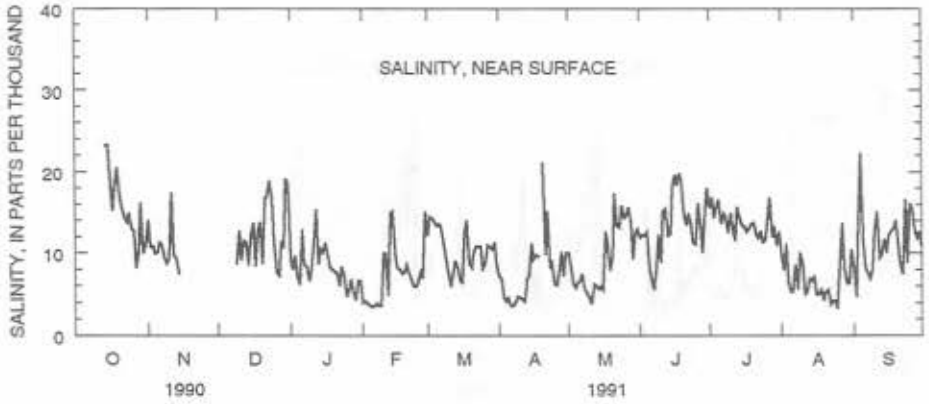
Salinity, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 32.3 ppt April 20, 1991; minimum value recorded, 3.2 ppt February 8, August 25, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR SURFACE (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	14.0	---	9.1	4.0	12.1	7.1	10.0	11.9	15.6	10.0	8.1
2	---	10.7	---	8.0	4.1	14.4	6.7	8.2	12.2	16.8	7.9	4.7
3	---	10.8	---	9.6	3.9	14.2	4.6	6.3	12.1	14.3	11.0	14.1
4	---	9.9	---	7.0	3.6	13.8	4.1	5.8	12.5	15.9	6.4	22.2
5	---	10.0	---	6.2	3.5	13.3	4.5	6.3	8.0	16.6	5.3	11.9
6	---	11.2	---	12.8	3.5	13.5	3.6	6.6	6.8	13.6	5.3	8.1
7	---	10.9	---	8.5	3.9	13.1	3.6	7.4	5.5	14.9	8.5	7.4
8	---	9.3	---	8.2	3.6	11.1	4.1	5.6	8.4	14.5	5.6	6.9
9	---	8.7	8.7	6.6	3.6	9.1	4.7	5.1	12.2	12.5	10.0	8.1
10	---	9.2	12.7	7.9	9.9	7.7	4.5	4.6	8.8	14.9	8.8	12.7
11	---	17.4	9.1	11.3	9.9	5.9	4.4	3.8	15.0	13.1	5.1	15.0
12	---	9.7	11.4	15.3	4.8	7.1	4.1	6.2	15.4	11.5	5.3	9.4
13	---	9.3	11.1	8.6	14.8	9.0	6.9	6.0	12.1	15.7	6.8	9.7
14	23.2	7.5	8.5	10.4	15.0	8.1	7.2	5.6	12.4	14.3	6.6	11.7
15	23.3	---	12.1	10.0	10.0	6.6	11.1	5.9	18.1	13.3	7.2	10.0
16	19.5	---	13.7	11.2	8.1	6.4	9.2	5.5	19.6	13.2	4.9	12.2
17	15.2	---	8.4	9.9	8.0	12.6	9.7	12.6	18.3	12.6	5.0	12.7
18	17.9	---	12.8	8.2	7.4	14.0	9.5	11.5	19.8	13.1	5.5	13.1
19	20.5	---	13.8	7.9	7.5	8.7	---	7.9	18.9	13.5	4.3	14.0
20	17.1	---	8.7	7.7	8.5	8.2	21.0	9.4	14.7	13.7	5.3	10.8
21	15.2	---	16.7	7.4	7.4	10.0	9.8	17.3	13.4	12.2	5.5	8.5
22	14.4	---	16.9	6.0	6.7	10.8	15.0	13.2	14.8	11.8	3.8	7.4
23	13.8	---	18.9	8.3	5.9	10.7	8.1	13.1	13.5	12.7	4.2	16.6
24	14.9	---	16.7	7.3	5.9	10.8	8.7	15.8	11.2	11.3	4.2	8.8
25	13.0	---	11.3	4.7	6.5	8.1	6.2	14.3	11.0	11.5	3.3	16.1
26	12.6	---	7.6	5.3	7.7	8.7	6.1	14.5	16.1	14.5	8.7	15.3
27	8.1	---	7.2	6.7	6.9	10.9	7.7	15.7	13.2	16.8	13.6	12.9
28	10.0	---	11.2	5.2	15.0	10.6	10.1	13.8	10.1	12.0	8.2	11.9
29	16.1	---	10.8	4.3	---	10.4	7.2	9.2	15.2	13.2	6.3	12.6
30	9.9	---	19.1	6.6	---	11.3	10.0	12.5	18.0	10.9	6.3	10.9
31	10.9	---	18.5	6.5	---	8.6	---	12.9	---	12.6	10.4	---



DAILY MEAN SALINITY, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

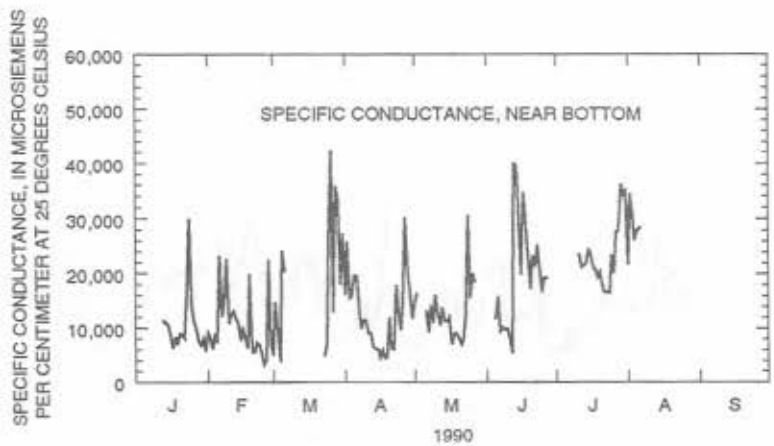
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 46,800 µS/cm March 26, 1990; minimum value recorded, 1,910 µS/cm February 26, 1990.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	9,040	4,910	16,200	14,700	---	---	21,700	---
2	---	8,210	14,700	25,700	16,300	---	---	34,300	---
3	---	6,230	9,330	15,600	---	---	---	30,400	---
4	---	8,940	3,810	15,900	---	---	---	26,200	---
5	---	7,240	24,100	19,600	---	11,700	---	27,800	---
6	---	23,100	20,400	19,500	13,000	15,800	---	28,400	---
7	---	12,100	---	12,900	9,220	9,480	---	---	---
8	---	14,500	---	9,910	14,100	10,100	---	---	---
9	---	22,600	---	11,400	10,900	9,700	---	---	---
10	---	10,800	---	11,400	16,100	9,830	---	---	---
11	---	12,300	---	8,990	12,500	8,200	23,500	---	---
12	---	13,000	---	8,980	10,400	5,350	21,200	---	---
13	11,200	11,500	---	6,620	13,700	39,800	21,600	---	---
14	10,800	10,800	---	6,080	11,200	39,500	21,900	---	---
15	10,400	7,730	---	6,030	11,100	29,500	24,300	---	---
16	8,120	10,200	---	4,560	11,900	19,800	23,700	---	---
17	6,340	7,900	---	5,900	7,040	34,600	21,400	---	---
18	8,380	6,370	---	4,360	9,070	30,300	20,500	---	---
19	6,950	19,700	---	4,510	9,030	23,300	19,400	---	---
20	8,850	5,450	---	11,800	8,080	17,300	20,300	---	---
21	8,580	5,620	---	6,240	6,990	23,300	17,400	---	---
22	8,070	7,210	---	6,030	7,790	21,200	16,700	---	---
23	16,500	6,860	4,860	17,900	12,700	25,300	16,700	---	---
24	29,900	5,450	7,080	13,100	30,400	21,100	16,500	---	---
25	14,500	3,240	25,800	9,670	15,600	16,700	23,400	---	---
26	11,000	4,070	42,200	14,700	19,900	19,100	20,200	---	---
27	9,600	22,400	12,900	30,100	18,600	19,200	27,500	---	---
28	7,620	6,980	35,700	20,100	---	---	28,000	---	---
29	6,810	---	32,900	15,800	---	---	36,100	---	---
30	7,900	---	18,100	11,700	---	---	34,200	---	---
31	5,670	---	27,200	---	---	---	34,900	---	---



DAILY MEAN SPECIFIC CONDUCTANCE, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

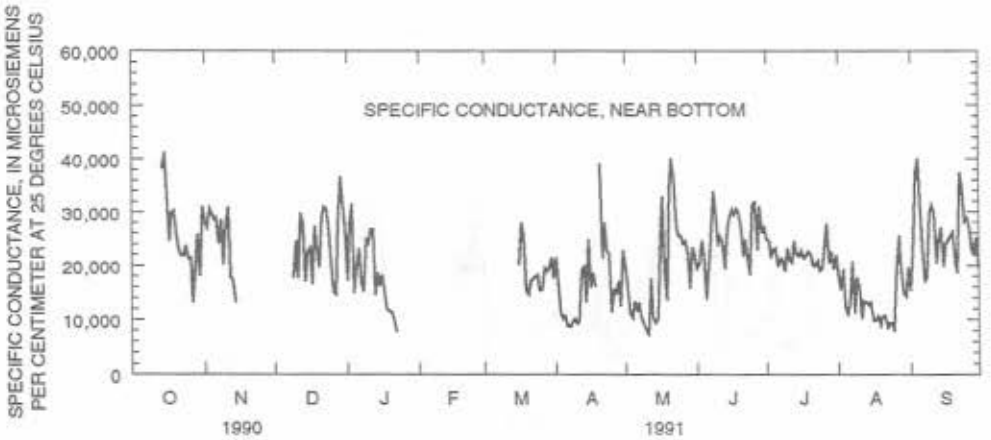
Specific Conductance, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 48,900 µS/cm October 15, 1990; minimum value recorded, 6,130 µS/cm May 11, 1991.

DAILY MEAN VALUES OF SPECIFIC CONDUCTANCE, NEAR BOTTOM (in µS/cm at 25 °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	27,900	---	17,300	---	---	21,400	19,700	19,500	24,800	18,600	15,400
2	---	27,000	---	27,600	---	---	15,300	14,500	20,300	24,400	15,400	25,100
3	---	30,500	---	31,500	---	---	11,400	11,200	24,500	21,800	19,300	37,500
4	---	29,900	---	14,900	---	---	10,100	10,300	22,000	22,800	12,600	40,000
5	---	28,600	---	19,700	---	---	10,500	13,200	13,700	23,100	10,800	32,000
6	---	28,900	---	23,200	---	---	8,820	11,500	18,500	19,800	12,600	23,500
7	---	24,100	---	16,800	---	---	8,700	13,000	25,000	21,200	20,700	16,900
8	---	28,600	---	15,100	---	---	9,520	10,200	33,700	20,900	11,300	17,900
9	---	20,200	17,800	24,900	---	---	10,100	8,870	30,600	18,900	17,700	29,500
10	---	27,500	24,400	23,700	---	---	9,250	8,040	23,700	23,100	15,900	31,100
11	---	30,900	17,700	26,700	---	---	9,580	7,070	25,300	21,000	10,200	29,900
12	---	18,000	29,700	26,600	---	---	18,900	17,500	24,300	20,500	13,300	20,400
13	---	17,200	27,700	14,500	---	---	19,900	10,100	19,400	24,400	13,000	24,400
14	38,300	13,200	17,000	18,600	---	---	13,100	9,420	26,500	22,000	12,600	26,900
15	41,100	---	22,600	16,200	---	---	24,700	10,300	28,800	21,700	13,000	19,800
16	33,300	---	23,300	18,200	---	20,300	15,800	22,200	30,300	22,700	9,720	23,900
17	24,600	---	16,500	15,400	---	27,900	18,600	32,800	29,400	21,300	9,730	24,700
18	29,900	---	27,200	11,900	---	25,500	16,200	19,100	30,400	21,900	10,500	25,500
19	30,200	---	23,200	11,500	---	15,200	---	13,600	29,800	22,600	9,000	26,100
20	25,200	---	19,700	11,400	---	14,600	38,900	34,300	27,200	22,000	10,500	20,900
21	22,600	---	29,300	10,100	---	16,900	21,400	39,900	21,700	20,000	10,700	18,600
22	21,800	---	30,900	7,820	---	17,600	27,800	36,100	24,500	19,800	8,320	37,200
23	21,700	---	30,500	---	---	17,800	22,400	27,100	20,800	20,800	9,320	34,100
24	23,700	---	26,200	---	---	18,200	22,300	25,500	18,300	19,000	9,280	28,100
25	21,200	---	20,700	---	---	15,400	11,400	25,400	31,400	19,400	7,790	28,800
26	21,400	---	15,100	---	---	15,500	15,200	24,100	31,700	24,100	19,600	26,700
27	13,000	---	14,600	---	---	19,500	14,900	24,400	22,900	27,600	25,400	23,100
28	19,600	---	27,800	---	---	18,900	17,000	22,200	30,900	20,400	19,000	21,800
29	25,700	---	36,700	---	---	19,600	12,400	15,700	25,900	22,600	14,800	25,000
30	18,100	---	32,500	---	---	21,300	22,800	23,400	27,200	19,400	14,200	19,800
31	31,000	---	26,900	---	---	17,600	---	22,100	---	21,800	19,600	---



DAILY MEAN SPECIFIC CONDUCTANCE, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

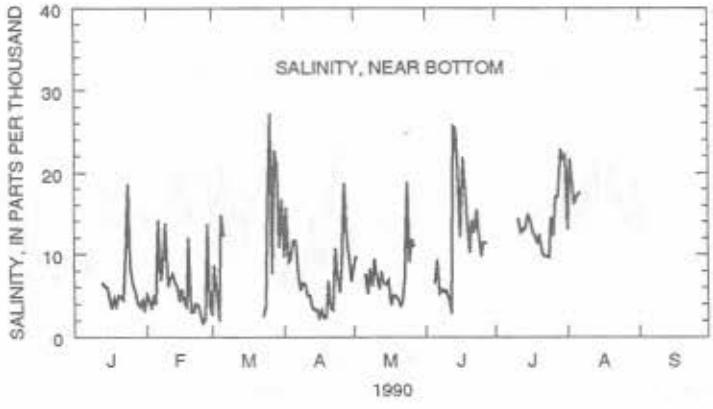
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 30.4 ppt March 26, 1990; minimum value recorded, 1.0 ppt February 25, 26, 1990.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	5.1	2.6	9.7	8.6	---	---	13.1	---
2	---	4.6	8.6	15.7	9.6	---	---	21.6	---
3	---	3.4	5.3	9.1	---	---	---	19.0	---
4	---	5.0	2.0	9.4	---	---	---	16.1	---
5	---	4.0	14.7	11.7	---	6.6	---	17.1	---
6	---	14.1	12.3	11.6	7.5	9.3	---	17.5	---
7	---	6.9	---	7.4	5.2	5.3	---	---	---
8	---	8.6	---	5.6	8.2	5.7	---	---	---
9	---	13.7	---	6.5	6.2	5.4	---	---	---
10	---	6.1	---	6.5	9.4	5.5	---	---	---
11	---	7.0	---	5.0	7.2	4.5	14.2	---	---
12	---	7.6	---	5.0	5.8	2.9	12.7	---	---
13	6.4	6.5	---	3.6	7.9	25.5	13.0	---	---
14	6.1	6.1	---	3.3	6.4	25.2	13.2	---	---
15	5.9	4.3	---	3.3	6.3	18.3	14.7	---	---
16	4.5	5.8	---	2.4	6.8	12.1	14.4	---	---
17	3.4	4.4	---	3.2	3.9	21.8	12.8	---	---
18	4.6	3.5	---	2.3	5.1	18.8	12.2	---	---
19	3.8	12.0	---	2.4	5.0	14.1	11.5	---	---
20	5.0	3.0	---	6.7	4.5	10.2	12.1	---	---
21	4.8	3.1	---	3.4	3.8	14.1	10.2	---	---
22	4.5	4.0	---	3.3	4.3	12.7	9.8	---	---
23	9.8	3.8	2.6	10.7	7.5	15.4	9.8	---	---
24	18.6	2.9	3.9	7.6	18.9	12.6	9.6	---	---
25	8.5	1.7	16.2	5.4	9.1	9.8	14.4	---	---
26	6.3	2.2	27.1	8.6	11.8	11.4	12.3	---	---
27	5.4	13.6	7.7	18.7	11.0	11.4	16.9	---	---
28	4.2	3.8	22.6	12.0	---	---	17.2	---	---
29	3.7	---	20.7	9.2	---	---	22.8	---	---
30	4.4	---	10.9	6.7	---	---	21.6	---	---
31	3.1	---	16.7	---	---	---	22.0	---	---



DAILY MEAN SALINITY, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

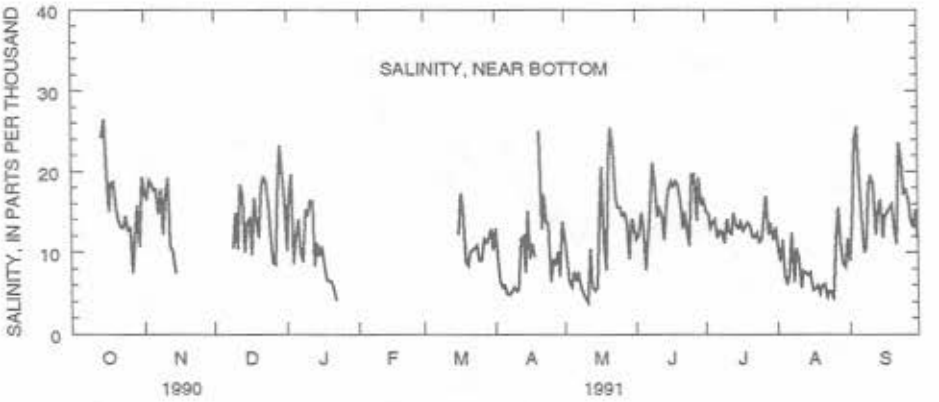
Salinity, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 31.9 ppt October 15, 1990; minimum value recorded, 3.3 ppt May 11, 1991.

DAILY MEAN VALUES OF SALINITY, NEAR BOTTOM (in ppt), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	17.2	---	10.2	---	---	12.9	11.7	11.6	15.0	11.0	9.0
2	---	16.5	---	17.1	---	---	8.9	8.4	12.1	14.8	8.9	15.5
3	---	18.9	---	19.6	---	---	6.5	6.3	14.9	13.1	11.5	23.8
4	---	18.5	---	8.7	---	---	5.7	5.8	13.3	13.7	7.2	25.5
5	---	17.6	---	11.9	---	---	5.9	7.6	7.9	14.0	6.1	20.0
6	---	17.8	---	14.0	---	---	4.9	6.5	11.1	11.8	7.2	14.3
7	---	14.7	---	9.9	---	---	4.8	7.5	15.4	12.7	12.4	10.0
8	---	17.7	---	8.8	---	---	5.3	5.7	21.1	12.5	6.4	10.6
9	---	12.2	10.6	15.2	---	---	5.7	4.9	19.0	11.2	10.5	18.3
10	---	17.0	14.8	14.4	---	---	5.2	4.4	14.4	14.0	9.3	19.3
11	---	19.2	10.4	16.4	---	---	5.4	3.9	15.4	12.6	5.7	18.5
12	---	10.6	18.3	16.3	---	---	11.5	10.4	14.7	12.3	7.7	12.2
13	---	10.1	17.0	8.4	---	---	11.9	5.7	11.6	14.8	7.5	14.9
14	24.3	7.6	10.0	11.1	---	---	7.6	5.3	16.3	13.2	7.2	16.5
15	26.4	---	13.6	9.5	---	---	15.0	5.8	17.8	13.0	7.5	11.8
16	20.9	---	14.1	10.7	---	12.3	9.2	13.7	18.8	13.7	5.4	14.5
17	15.0	---	9.7	9.0	---	17.2	11.0	20.5	18.2	12.7	5.5	15.0
18	18.5	---	16.7	6.8	---	15.5	9.5	11.4	18.8	13.2	5.9	15.5
19	18.7	---	14.0	6.5	---	8.9	---	7.8	18.4	13.6	5.0	15.9
20	15.3	---	11.8	6.4	---	8.4	24.9	21.7	16.7	13.2	5.9	12.5
21	13.6	---	18.1	5.7	---	9.9	12.9	25.4	13.0	11.9	6.1	11.0
22	13.1	---	19.2	4.3	---	10.3	17.1	22.8	14.9	11.8	4.6	23.6
23	13.0	---	18.9	---	---	10.5	13.5	16.7	12.5	12.4	5.2	21.4
24	14.4	---	16.0	---	---	10.8	13.5	15.5	10.9	11.3	5.2	17.3
25	12.7	---	12.4	---	---	9.0	6.5	15.5	19.6	11.5	4.3	17.7
26	12.9	---	8.7	---	---	9.0	8.9	14.6	19.7	14.6	11.8	16.3
27	7.5	---	8.5	---	---	11.6	8.6	14.8	13.9	16.9	15.5	13.9
28	11.7	---	17.1	---	---	11.2	10.0	13.3	19.2	12.2	11.2	13.1
29	15.7	---	23.2	---	---	11.7	7.1	9.2	15.8	13.6	8.6	15.2
30	10.7	---	20.3	---	---	12.8	13.7	14.1	16.7	11.5	8.2	11.8
31	19.3	---	16.5	---	---	10.3	---	13.3	---	13.1	11.7	---



DAILY MEAN SALINITY, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

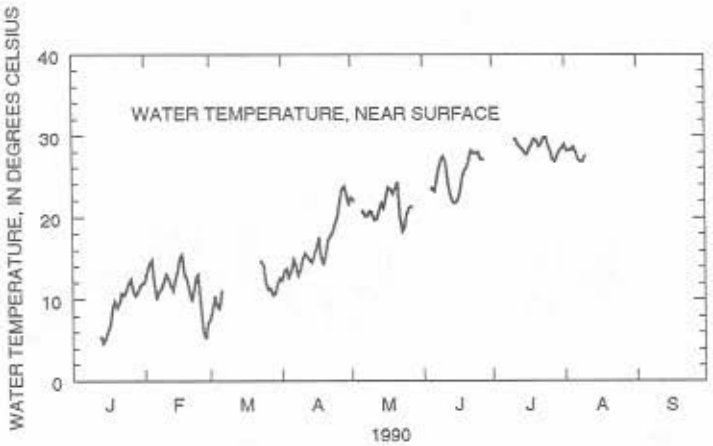
Water Temperature, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 30.9 °C July 23, 24, 1990; minimum value recorded, 3.7 °C January 14, 1990.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	12.1	7.7	12.3	22.3	---	---	28.9	---
2	---	13.2	8.6	13.4	22.0	---	---	28.1	---
3	---	14.2	10.3	13.7	---	---	---	28.2	---
4	---	14.7	9.0	12.7	---	---	---	28.3	---
5	---	12.3	8.8	13.3	---	23.4	---	28.6	---
6	---	10.0	10.9	14.8	20.7	23.1	---	27.9	---
7	---	10.9	---	14.0	20.1	24.3	---	27.1	---
8	---	11.2	---	12.9	20.1	25.9	---	26.7	---
9	---	12.0	---	13.6	20.7	27.0	---	26.9	---
10	---	13.0	---	14.9	20.6	27.4	---	27.5	---
11	---	12.6	---	15.6	19.7	26.5	29.5	---	---
12	---	11.7	---	15.1	19.8	23.7	29.0	---	---
13	5.4	11.0	---	14.8	20.6	22.6	28.5	---	---
14	4.7	12.2	---	14.5	21.6	21.7	28.4	---	---
15	5.2	13.4	---	15.6	21.1	21.7	27.8	---	---
16	6.2	14.8	---	16.2	22.3	22.0	27.7	---	---
17	6.8	15.6	---	17.5	23.5	23.0	28.4	---	---
18	8.9	12.8	---	15.3	23.3	24.6	28.9	---	---
19	9.7	12.6	---	14.2	22.8	25.6	29.5	---	---
20	9.0	11.0	---	15.7	23.4	26.1	29.4	---	---
21	9.5	9.8	---	17.2	24.2	26.9	28.7	---	---
22	10.6	10.9	---	17.7	20.4	28.1	28.8	---	---
23	10.4	12.6	14.6	18.3	18.3	27.8	29.7	---	---
24	11.1	12.9	14.1	19.2	18.9	27.8	29.8	---	---
25	11.8	9.3	12.0	20.0	20.4	28.0	29.0	---	---
26	12.4	6.0	11.1	21.5	21.1	27.1	28.1	---	---
27	10.8	5.2	11.3	23.3	21.2	27.0	27.1	---	---
28	10.4	7.0	10.5	23.7	---	---	26.8	---	---
29	10.9	---	10.6	22.5	---	---	27.6	---	---
30	11.7	---	11.7	21.6	---	---	28.1	---	---
31	11.8	---	12.5	---	---	---	28.5	---	---



DAILY MEAN WATER TEMPERATURE, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

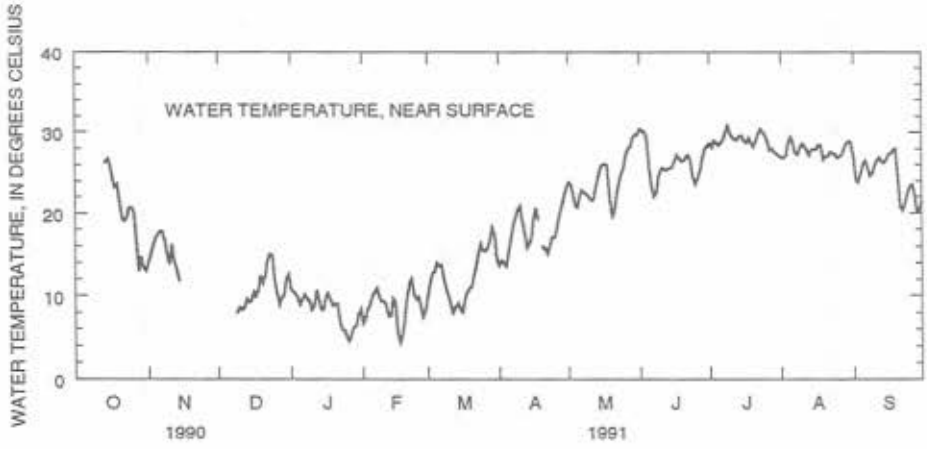
Water Temperature, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 32.3 °C July 22, 1991; minimum value recorded, 3.5 °C February 17, 1991.

DAILY MEAN VALUES OF WATER TEMPERATURE, NEAR SURFACE (in °C), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	14.1	---	10.6	6.7	10.0	13.6	23.8	30.3	28.5	26.9	27.0
2	---	14.9	---	10.5	7.3	11.4	14.2	23.5	30.1	28.1	26.9	24.0
3	---	16.0	---	10.1	8.3	12.7	13.9	22.5	29.9	28.9	27.2	23.8
4	---	16.8	---	9.7	8.9	13.0	13.5	20.8	29.2	28.7	28.5	24.8
5	---	17.4	---	8.9	9.9	13.9	14.9	20.7	25.8	28.4	29.4	25.9
6	---	17.7	---	9.6	10.4	13.5	16.7	22.1	23.6	28.7	28.9	26.5
7	---	17.8	---	10.1	10.9	13.7	18.4	22.8	22.0	29.1	27.5	25.7
8	---	16.6	---	9.5	9.9	12.0	19.5	22.4	22.4	29.9	27.3	24.6
9	---	15.3	8.0	9.2	9.3	10.6	20.3	22.2	24.3	30.7	27.9	24.8
10	---	13.8	8.6	8.3	9.2	9.9	20.8	21.9	25.4	29.8	28.5	25.7
11	---	16.1	8.3	8.8	8.9	8.8	19.3	21.5	25.6	29.3	28.2	26.5
12	---	14.2	8.6	10.6	7.5	7.9	17.6	21.7	25.3	29.1	27.8	26.9
13	---	13.3	9.5	9.5	7.6	8.6	15.8	23.2	25.5	29.0	27.2	26.4
14	26.3	11.8	9.2	8.3	9.5	9.1	16.2	24.5	25.6	29.5	27.9	26.2
15	26.7	---	9.4	8.3	9.2	8.3	17.1	25.8	25.8	29.5	27.9	26.7
16	26.0	---	10.4	9.8	5.6	8.0	19.3	26.0	26.5	28.9	27.9	27.3
17	24.2	---	9.9	10.2	4.4	9.5	20.6	26.1	27.2	28.7	28.4	27.4
18	23.3	---	10.7	9.5	5.4	10.3	19.3	25.9	26.8	29.2	28.4	27.9
19	23.6	---	12.4	8.8	7.1	10.9	---	21.7	26.4	28.7	26.6	28.0
20	21.0	---	11.5	9.0	9.7	11.2	15.9	19.7	26.5	28.2	27.0	24.2
21	19.3	---	12.5	9.0	11.6	12.4	15.6	20.1	27.0	28.9	27.0	20.8
22	19.0	---	14.2	6.9	12.0	13.6	15.1	22.3	27.2	29.7	27.6	20.3
23	19.6	---	15.0	5.9	10.1	15.0	16.1	24.0	26.4	30.3	27.4	21.4
24	20.7	---	14.9	5.8	9.5	16.2	17.1	24.8	24.5	30.0	27.3	22.2
25	20.7	---	12.0	5.0	9.8	15.5	17.0	25.7	23.6	29.6	26.9	23.3
26	20.0	---	10.3	4.5	8.6	15.4	18.1	27.1	24.3	28.8	27.0	23.5
27	16.7	---	8.9	5.4	7.4	15.8	19.6	28.0	25.4	27.8	27.3	22.4
28	13.0	---	9.6	6.1	8.2	16.9	20.7	28.2	26.7	28.0	27.9	20.1
29	14.7	---	10.1	6.3	---	18.2	21.6	29.2	27.9	27.6	28.6	20.2
30	13.4	---	11.9	7.7	---	17.3	22.9	29.7	28.2	27.4	28.8	21.4
31	13.0	---	12.5	8.4	---	14.5	---	29.6	---	27.0	28.7	---



DAILY MEAN WATER TEMPERATURE, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

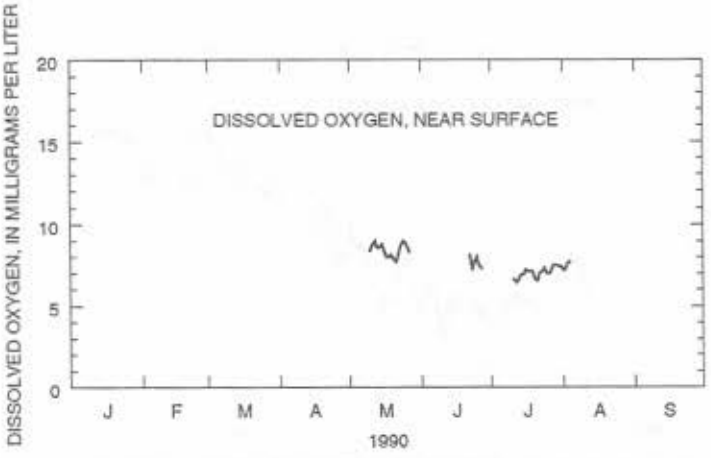
Dissolved Oxygen, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 9.6 mg/L May 12, 24, 1990; minimum value recorded, 4.8 mg/L July 22, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	7.2	---
2	---	---	---	---	---	---	---	7.2	---
3	---	---	---	---	---	---	---	7.6	---
4	---	---	---	---	---	---	---	7.7	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	8.4	---	---	---	---
11	---	---	---	---	8.8	---	6.6	---	---
12	---	---	---	---	9.0	---	6.4	---	---
13	---	---	---	---	8.6	---	6.6	---	---
14	---	---	---	---	8.6	---	6.9	---	---
15	---	---	---	---	8.8	---	6.9	---	---
16	---	---	---	---	8.4	---	7.2	---	---
17	---	---	---	---	8.0	---	7.1	---	---
18	---	---	---	---	8.0	---	7.1	---	---
19	---	---	---	---	8.1	---	7.1	---	---
20	---	---	---	---	7.9	---	6.6	---	---
21	---	---	---	---	7.7	---	6.5	---	---
22	---	---	---	---	8.0	8.1	7.0b	---	---
23	---	---	---	---	8.7	7.2	7.1b	---	---
24	---	---	---	---	9.0	7.7	7.3	---	---
25	---	---	---	---	8.9	8.0	7.0	---	---
26	---	---	---	---	8.6	7.5	7.0	---	---
27	---	---	---	---	8.3	7.3	7.1	---	---
28	---	---	---	---	---	---	7.5	---	---
29	---	---	---	---	---	---	7.5	---	---
30	---	---	---	---	---	---	7.4	---	---
31	---	---	---	---	---	---	7.4	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

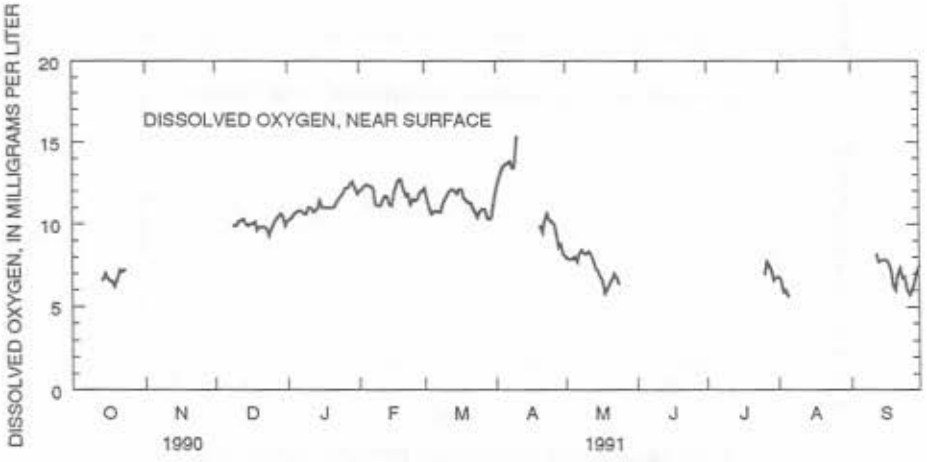
Dissolved Oxygen, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 16.3 mg/L April 10, 1991; minimum value recorded, 4.8 mg/L September 26, 27, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR SURFACE (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	10.2	12.0	12.2	12.1	8.0	---	---	6.8	---
2	---	---	---	10.3	12.1	11.6	12.7	7.9	---	---	6.6	---
3	---	---	---	10.4	12.3	11.0	13.1	7.9	---	---	5.9	---
4	---	---	---	10.6	12.4	10.6	13.5	7.9	---	---	6.0	---
5	---	---	---	10.7	12.3	10.7	13.6	8.0	---	---	5.6	---
6	---	---	---	10.8	12.3	10.8	13.7	7.7	---	---	---	---
7	---	---	---	10.8	12.1	10.7	13.8	8.2	---	---	---	---
8	---	---	---	10.6	11.2	10.7	13.4	8.4	---	---	---	---
9	---	---	9.9	10.6	11.1	11.3	13.5	8.2	---	---	---	---
10	---	---	9.9	11.0	11.1	11.5	15.3	8.2	---	---	---	---
11	---	---	10.1	11.0	11.4	11.8	---	8.3	---	---	---	---
12	---	---	10.2	10.7	11.7	12.0	---	8.1	---	---	---	8.1b
13	---	---	10.3	10.8	11.6	12.1	---	7.8	---	---	---	7.7
14	6.6	---	10.0	11.0	11.2	12.0	---	7.3	6.7	---	---	7.8
15	7.0	---	9.9	11.4	11.1	11.8	---	7.1	---	---	---	7.8
16	6.7	---	10.0	11.0	11.9	12.1	---	6.8	---	---	---	7.8
17	6.5	---	10.0	11.0	12.4	12.1	---	6.5	---	---	---	7.6
18	6.5	---	10.1	11.0	12.7	11.6	---	5.8	---	---	---	7.2
19	6.2	---	9.6	11.0	12.7	11.4	---	6.1	---	---	---	6.3
20	6.6	---	9.8	11.0	12.1	11.3	9.9	6.4	---	---	---	6.0
21	7.2	---	9.8	11.0	11.7	11.3	9.5	6.6	---	---	---	6.9
22	7.1	---	9.8	11.3	11.8	10.9	10.2	7.0	---	---	---	7.3
23	7.2	---	9.7	11.5	11.2	10.7	10.6	6.7	---	---	---	6.7
24	---	---	9.3	11.7	11.5	10.4	10.3	6.4	---	---	---	6.8
25	---	---	9.6	11.9	11.4	10.7	10.1	---	---	---	---	6.0
26	---	---	10.0	12.2	11.5	10.9	10.0	---	---	7.0	---	5.7b
27	---	---	10.3	12.2	11.9	10.9	9.5	---	---	7.7	---	6.0b
28	---	---	10.4	12.4	12.0	10.4	8.6	---	---	7.4	---	6.4
29	---	---	10.6	12.6	---	10.3	8.8	---	---	7.2	---	7.0
30	---	---	10.5	12.2	---	10.4	8.2	---	---	6.6	---	7.4
31	---	---	9.9	11.8	---	11.3	---	---	---	6.8	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

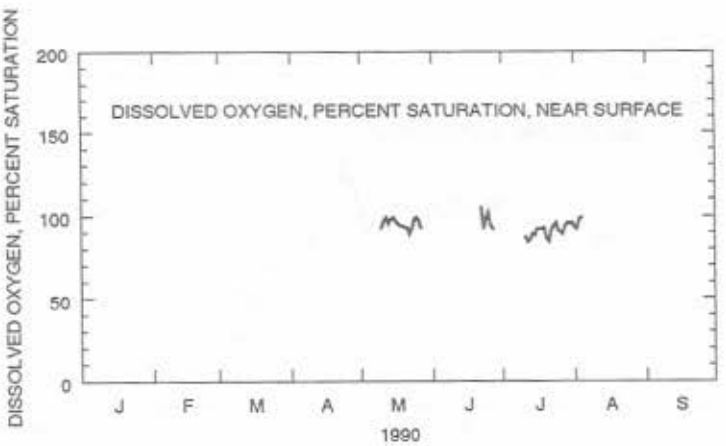
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 120 percent June 22, 1990; minimum value recorded, 62 percent July 22, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	---	---	---	93	---
2	---	---	---	---	---	---	---	92	---
3	---	---	---	---	---	---	---	98	---
4	---	---	---	---	---	---	---	99	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	93	---	---	---	---
11	---	---	---	---	97	---	87	---	---
12	---	---	---	---	99	---	84	---	---
13	---	---	---	---	95	---	86	---	---
14	---	---	---	---	98	---	89	---	---
15	---	---	---	---	99	---	88	---	---
16	---	---	---	---	97	---	92	---	---
17	---	---	---	---	95	---	92	---	---
18	---	---	---	---	94	---	92	---	---
19	---	---	---	---	94	---	93	---	---
20	---	---	---	---	93	---	86	---	---
21	---	---	---	---	93	---	84	---	---
22	---	---	---	---	89	105	91	---	---
23	---	---	---	---	92	92	94	---	---
24	---	---	---	---	98	98	96	---	---
25	---	---	---	---	99	102	91	---	---
26	---	---	---	---	97	95	90	---	---
27	---	---	---	---	93	92	89	---	---
28	---	---	---	---	---	---	94	---	---
29	---	---	---	---	---	---	96	---	---
30	---	---	---	---	---	---	95	---	---
31	---	---	---	---	---	---	96	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

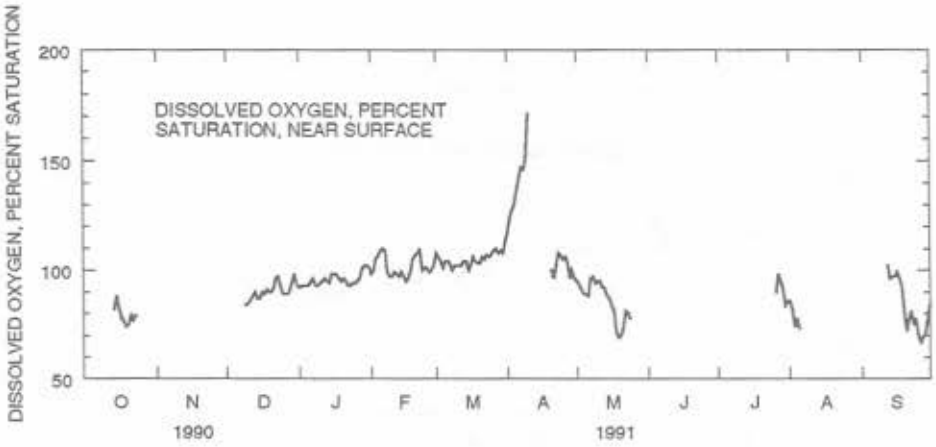
Dissolved Oxygen, Percent Saturation, Near Surface

Sensor Position.--6 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 186 percent April 10, 1991; minimum value recorded, 53 percent September 29, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR SURFACE (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	92	98	108	117	95	---	---	86	---
2	---	---	---	93	100	106	124	93	---	---	82	---
3	---	---	---	93	105	104	127	91	---	---	74	---
4	---	---	---	93	107	101	130	89	---	---	78	---
5	---	---	---	93	109	104	135	89	---	---	73	---
6	---	---	---	95	110	104	141	88	---	---	---	---
7	---	---	---	96	109	103	147	96	---	---	---	---
8	---	---	---	93	99	100	146	97	---	---	---	---
9	---	---	84	93	97	102	150	94	---	---	---	---
10	---	---	85	94	97	102	171	95	---	---	---	---
11	---	---	86	95	99	102	---	95	---	---	---	---
12	---	---	88	96	98	102	---	92	---	---	---	102
13	---	---	90	95	97	104	---	92	---	---	---	96
14	82	---	87	94	99	104	---	88	82	---	---	97
15	88	---	87	98	97	100	---	87	---	---	---	97
16	83	---	90	98	95	102	---	84	---	---	---	99
17	78	---	89	98	96	106	---	81	---	---	---	96
18	77	---	91	96	100	104	---	72	---	---	---	92
19	74	---	90	95	105	103	---	69	---	---	---	81
20	75	---	90	96	107	103	100	70	---	---	---	72
21	79	---	92	95	108	106	96	73	---	---	---	77
22	77	---	96	93	110	105	101	81	---	---	---	81
23	79	---	97	93	100	107	108	80	---	---	---	75
24	---	---	92	94	101	106	107	78	---	---	---	78
25	---	---	89	94	101	107	105	---	---	---	---	70
26	---	---	89	95	99	109	106	---	---	90	---	67
27	---	---	89	96	100	110	104	---	---	98	---	69
28	---	---	91	100	102	108	96	---	---	95	---	71
29	---	---	95	102	---	109	100	---	---	92	---	77
30	---	---	98	102	---	108	96	---	---	84	---	84
31	---	---	93	101	---	112	---	---	---	86	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980; a, daily minimum value is less than 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

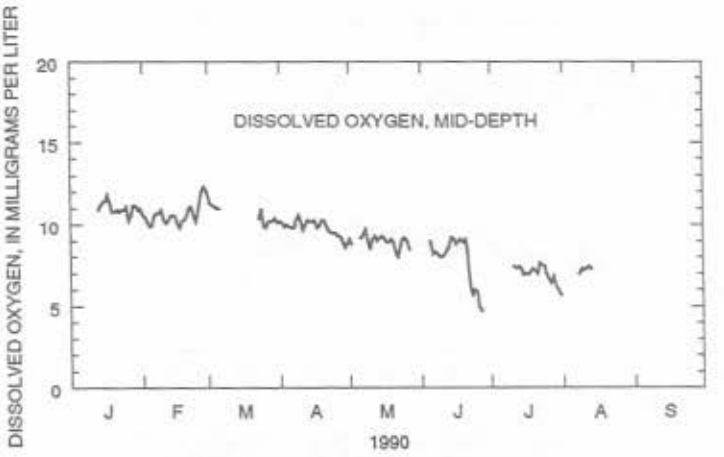
Dissolved Oxygen, Mid-Depth

Sensor Position.--4 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 13.0 mg/L March 24, 1990; minimum value recorded, 3.4 mg/L August 8, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.6	11.8	10.2	9.1	---	---	---	---
2	---	10.5	11.3	10.1	8.8	---	---	---	---
3	---	10.2	11.2	9.9	---	---	---	---	---
4	---	9.9	11.1	10.0	---	---	---	---	---
5	---	9.9	11.0	9.9	---	9.0	---	---	---
6	---	10.6	11.0	9.8	9.2	8.2	---	---	---
7	---	10.7	---	9.8	9.4	8.3	---	---	---
8	---	10.7	---	10.3	9.7	8.2	---	7.0b	---
9	---	10.9	---	10.6	9.0	8.0	---	7.3b	---
10	---	10.3	---	10.3	8.5	8.0	---	7.2	---
11	---	10.1	---	9.7	9.1	8.1	7.4	7.3	---
12	---	10.3	---	10.0	9.3	8.5	7.3	7.4b	---
13	10.9	10.6	---	10.3	9.0	8.6	7.4	7.3b	---
14	11.2	10.6	---	10.2	9.2	9.2	7.3	---	---
15	11.4	10.5	---	10.2	9.3	9.1	6.9	---	---
16	11.5	10.1	---	10.3	9.2	8.8	7.0	---	---
17	11.8	9.8	---	9.8	8.9	9.0	6.9	---	---
18	11.3	10.3	---	9.9	8.9	9.1	7.1	---	---
19	10.8	10.3	---	10.3	9.1	8.9	7.3	---	---
20	10.8	10.6	---	10.3	8.9	9.1	7.2	---	---
21	10.9	11.1	---	10.0	8.2	8.4	7.0	---	---
22	10.8	11.1	---	9.6	8.0	6.3	7.6	---	---
23	10.9	10.5	10.4	9.5	8.7	5.6	7.5	---	---
24	10.9	10.2	11.0	9.5	9.2	6.0b	7.4	---	---
25	11.1	10.9	9.9	9.5	9.2	5.9	6.9	---	---
26	10.3	11.9	9.8	9.3	8.9	5.0b	6.6b	---	---
27	10.6	12.3	10.2	9.3	8.5	4.7b	6.4	---	---
28	11.2	12.2	10.2	9.0	---	---	6.8	---	---
29	11.2	---	10.3	8.6	---	---	6.2b	---	---
30	10.9	---	10.4	8.8	---	---	6.0b	---	---
31	11.0	---	10.1	---	---	---	5.7b	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

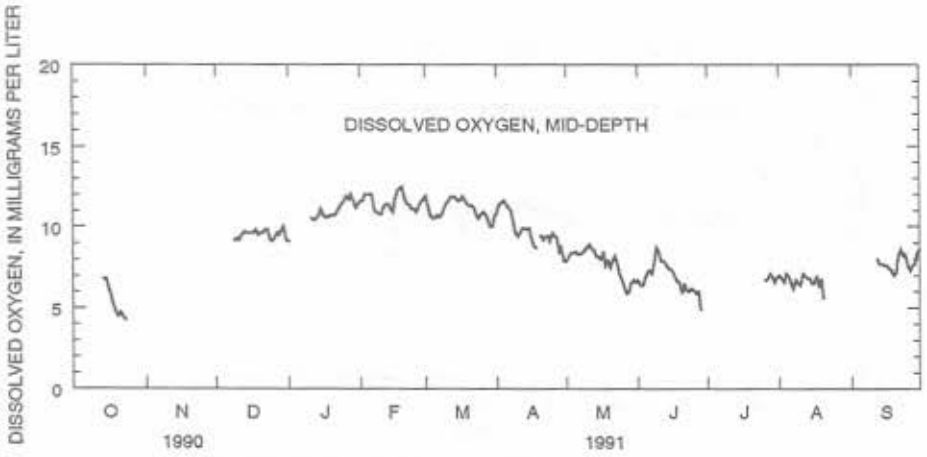
Dissolved Oxygen, Mid-Depth

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 12.7 mg/L February 18, 19, 1991; minimum value recorded, 3.7 mg/L October 22, 23, 1990, June 28, 1991.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, MID-DEPTH (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	9.1	11.6	11.9	10.9	7.9	6.7	---	7.0	---
2	---	---	---	---	11.6	11.4	11.4	8.2	6.4	---	6.8	---
3	---	---	---	---	12.0	10.8	11.5	8.4	6.4	---	6.6	---
4	---	---	---	---	12.0	10.5	11.6	8.4	6.8	---	7.1	---
5	---	---	---	---	12.0	10.5	11.4	8.5	7.2	---	6.9	---
6	---	---	---	---	12.0	10.7	11.2	8.3	7.3	---	6.6	---
7	---	---	---	---	11.0	10.6	11.0	8.3	7.1	---	6.2	---
8	---	---	---	---	10.9	10.7	10.2	8.4	7.9	---	6.7	---
9	---	---	9.2	---	10.8	11.1	9.6	8.6	8.7	---	6.5	---
10	---	---	9.3	---	10.8	11.4	9.4	8.7	8.5	---	6.4b	---
11	---	---	9.2	10.5	11.2	11.6	9.6	8.9	7.9	---	7.1	---
12	---	---	9.5	10.4	11.4	11.8	9.9	8.6	7.9	---	7.0	8.0
13	---	---	9.7	10.5	11.4	11.9	9.9	8.6	7.7	---	6.8	7.7
14	6.8	---	9.6	10.7	11.1	11.8	9.8	8.2	7.4	---	6.8	7.7
15	6.8	---	9.6	11.1	10.9	11.6	9.9	8.1	7.4	---	6.5	7.6
16	6.3	---	9.6	10.7	11.7	11.6	9.3	8.0	7.2	---	6.5	7.6
17	5.8b	---	9.6	10.6	12.2	11.9	8.8	8.5	6.9	---	7.0	7.4
18	5.3b	---	9.8	10.6	12.4	11.7	8.7	7.6	6.6	---	6.4	7.3
19	4.8b	---	9.5	10.7	12.5	11.4	---	7.9	6.6	---	6.8	7.0
20	4.5b	---	9.6	10.7	11.8	11.3	9.4	7.5	5.9	---	5.6b	7.2
21	4.7b	---	9.6	10.7	11.4	11.3	9.2	7.9	6.5	---	---	8.1
22	4.5b	---	9.8	11.0	11.4	11.2	9.4	8.2	6.1	---	---	8.6
23	4.3b	---	9.8	11.2	11.1	10.8	9.4	7.7	6.0b	---	---	8.2
24	---	---	9.2	11.4	11.1	10.5	9.1	7.1	6.2	---	---	8.3
25	---	---	9.1	11.7	10.9	10.7	9.6	6.7	6.1b	---	---	7.6
26	---	---	9.3	11.9	11.2	10.9	9.4	6.4	5.9b	6.7	---	7.3
27	---	---	9.6	11.7	11.5	10.8	9.3	5.9	6.0	6.8	---	7.6
28	---	---	9.5	12.0	11.7	10.4	8.5	6.0b	4.9b	7.1	---	7.7
29	---	---	9.8	11.6	---	10.0	8.7	6.5	---	6.9	---	8.3
30	---	---	10.0	11.2	---	10.0	7.9	6.7	---	6.6	---	8.6
31	---	---	9.2	11.4	---	10.6	---	6.6	---	6.9	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

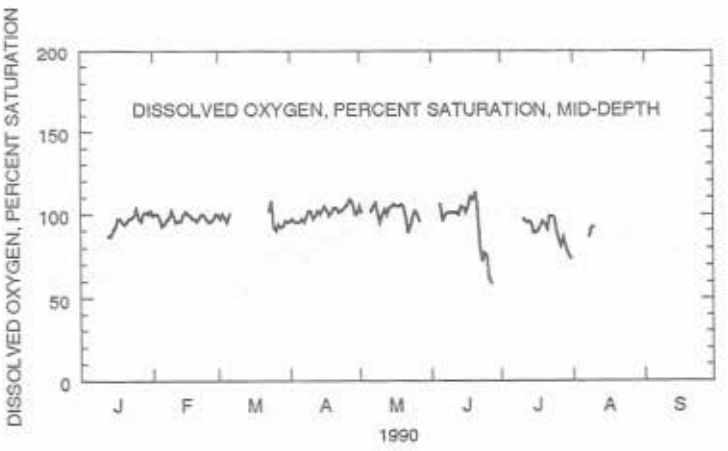
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--4 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 133 percent March 24, 1990; minimum value recorded, 42 percent August 8, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	99	99	96	105	---	---	---	---
2	---	100	97	97	101	---	---	---	---
3	---	100	100	95	---	---	---	---	---
4	---	97	97	95	---	---	---	---	---
5	---	93	95	95	---	106	---	---	---
6	---	94	100	97	102	96	---	---	---
7	---	97	---	95	105	99	---	---	---
8	---	97	---	98	107	101	---	87	---
9	---	102	---	102	100	101	---	92	---
10	---	98	---	102	95	101	---	92	---
11	---	95	---	97	100	101	97	---	---
12	---	96	---	99	103	101	95	---	---
13	87	96	---	102	100	100	96	---	---
14	87	99	---	100	104	105	95	---	---
15	90	101	---	103	105	104	89	---	---
16	93	100	---	105	106	101	89	---	---
17	97	99	---	102	105	105	90	---	---
18	97	97	---	99	105	110	93	---	---
19	95	97	---	101	106	109	96	---	---
20	94	96	---	104	105	113	94	---	---
21	96	98	---	104	98	106	91	---	---
22	97	100	---	101	89	81	99	---	---
23	98	99	102	102	93	72	99	---	---
24	99	97	108	103	99	77	98	---	---
25	103	95	92	105	102	76	90	---	---
26	97	96	90	106	100	63	84	---	---
27	96	97	94	109	96	59	81	---	---
28	100	100	92	107	---	---	86	---	---
29	101	---	93	100	---	---	80	---	---
30	100	---	96	100	---	---	77	---	---
31	102	---	95	---	---	---	74	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

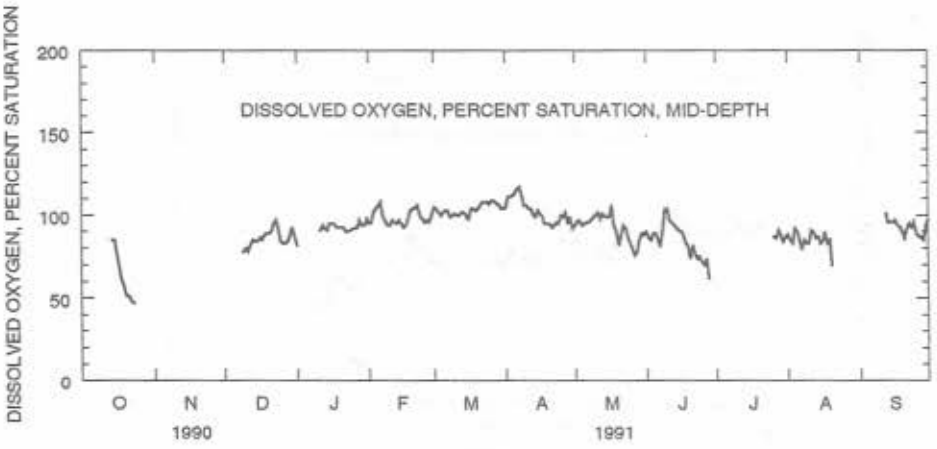
Dissolved Oxygen, Percent Saturation, Mid-Depth

Sensor Position.--4 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 125 percent April 7, 1991; minimum value recorded, 40 percent October 23, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, MID-DEPTH (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	82	95	105	105	94	90	---	88	---
2	---	---	---	---	96	104	111	97	86	---	85	---
3	---	---	---	---	102	102	111	97	85	---	83	---
4	---	---	---	---	104	100	112	94	89	---	92	---
5	---	---	---	---	106	102	113	95	89	---	90	---
6	---	---	---	---	108	103	116	96	86	---	86	---
7	---	---	---	---	99	103	117	96	81	---	79	---
8	---	---	---	---	97	99	111	97	92	---	85	---
9	---	---	78	---	94	100	106	99	104	---	83	---
10	---	---	80	---	94	101	106	100	104	---	83	---
11	---	---	78	91	97	100	104	102	97	---	91	---
12	---	---	82	94	96	100	104	98	96	---	90	101
13	---	---	85	92	95	102	100	101	94	---	86	96
14	85	---	84	91	97	102	99	99	92	---	87	96
15	85	---	84	95	95	99	103	99	91	---	83	96
16	78	---	86	95	93	98	101	99	90	---	84	97
17	69	---	85	95	94	104	99	106	88	---	90	94
18	62	---	88	93	99	104	95	94	83	---	83	93
19	57	---	89	93	103	103	---	90	82	---	85	90
20	51	---	89	93	104	104	95	82	74	---	70	86
21	51	---	90	93	105	106	93	87	82	---	---	91
22	48	---	95	90	106	108	94	94	77	---	---	95
23	47	---	97	90	99	108	96	92	74	---	---	93
24	---	---	91	91	98	108	95	87	75	---	---	96
25	---	---	84	92	96	107	100	83	72	---	---	89
26	---	---	83	92	97	109	99	80	70	87	---	87
27	---	---	83	93	96	109	102	76	74	86	---	87
28	---	---	84	97	100	107	95	78	62	91	---	85
29	---	---	88	94	---	107	99	85	---	88	---	92
30	---	---	93	94	---	104	92	89	---	84	---	97
31	---	---	87	98	---	104	---	88	---	87	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

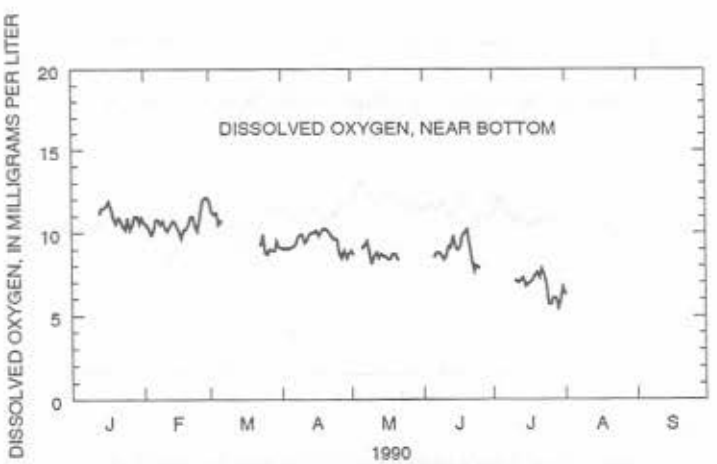
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 12.5 mg/L February 27, 1990; minimum value recorded, 3.6 mg/L July 29, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	10.6	11.9	9.1	8.9	---	---	6.3	---
2	---	10.5	11.3	9.0	8.7	---	---	---	---
3	---	10.3	11.1	9.1	---	---	---	---	---
4	---	9.9	11.2	9.0	---	---	---	---	---
5	---	10.0	10.5	9.1	---	---	---	---	---
6	---	10.8	10.7	9.2	9.1	8.6	---	---	---
7	---	10.8	---	9.3	9.3	8.8	---	---	---
8	---	10.5	---	9.7	9.5	8.8	---	---	---
9	---	10.7	---	9.9	8.7	8.6	---	---	---
10	---	10.3	---	9.9	8.1	8.4	---	---	---
11	---	10.1	---	9.4	8.6	8.6	7.1	---	---
12	---	10.4	---	9.6	8.8	9.2	7.0	---	---
13	11.2	10.7	---	9.9	8.5	9.1	7.2	---	---
14	11.5	10.7	---	10.0	8.7	9.8	7.3	---	---
15	11.5	10.4	---	10.0	8.6	9.1	6.8	---	---
16	11.7	10.1	---	10.1	8.6	9.0	6.9	---	---
17	11.9	9.7	---	9.8	8.4	9.2	7.0	---	---
18	11.4	10.2	---	10.0	8.5	9.8	7.2	---	---
19	10.9	10.2	---	10.3	8.7	10.0	7.4	---	---
20	10.6	10.5	---	10.2	8.7	10.2	7.6	---	---
21	10.9	11.0	---	10.1	8.4	9.4	7.3	---	---
22	10.8	11.0	---	9.9	---	8.4	7.8	---	---
23	10.4	10.4	9.3	9.7	---	7.7	7.5	---	---
24	10.2	10.1	9.9	9.6	---	8.0	6.8	---	---
25	10.9	10.9	8.8	9.6	---	7.9	5.7b	---	---
26	10.2	11.9	8.7	8.8	---	---	5.7b	---	---
27	10.5	12.1	9.0	8.5	---	---	6.1	---	---
28	11.0	12.1	8.9	8.9	---	---	6.1	---	---
29	11.0	---	8.9	8.5	---	---	5.5b	---	---
30	10.6	---	9.5	8.7	---	---	5.8b	---	---
31	10.9	---	9.1	---	---	---	6.7	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980; a, daily minimum value is less than or equal to 2.0 mg/L; b, daily minimum value is less than or equal to 5.0 mg/L but greater than 2.0 mg/L]

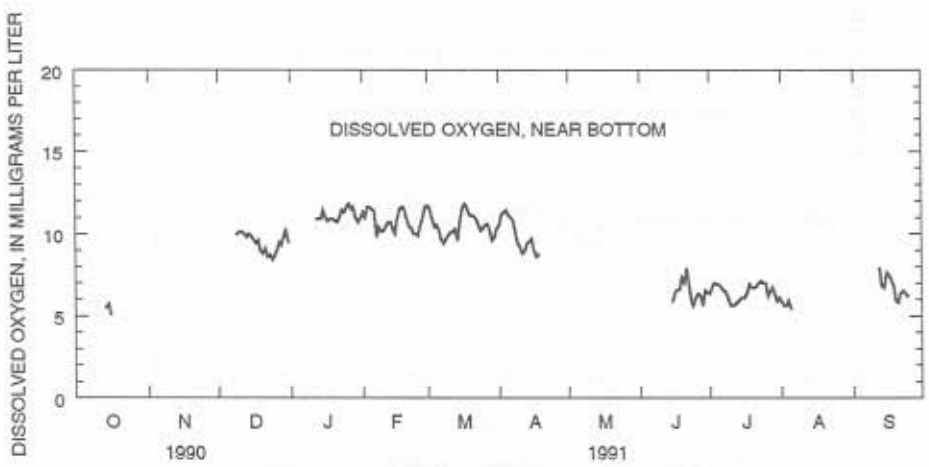
Dissolved Oxygen, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 13.5 mg/L December 29, 1990; minimum value recorded, 4.0 mg/L December 31, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, NEAR BOTTOM (in mg/L), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	11.3	11.7	10.5	---	---	6.3b	5.9	---
2	---	---	---	---	11.0	11.5	11.2	---	---	6.8	5.6b	---
3	---	---	---	---	11.6	10.9	11.3	---	---	7.0	5.6b	---
4	---	---	---	---	11.6	10.4	11.4	---	---	6.9	5.9	---
5	---	---	---	---	11.4	10.5	11.2	---	---	6.9	5.4b	---
6	---	---	---	---	11.4	10.2	11.0	---	---	6.7	---	---
7	---	---	---	---	9.8	9.7	10.8	---	---	6.5	---	---
8	---	---	---	---	10.4	9.4	10.0	---	---	6.4	---	---
9	---	---	10.0	---	10.1	9.7	9.4	---	---	6.0	---	---
10	---	---	10.1	---	10.2	9.9	9.2	---	---	5.6b	---	---
11	---	---	10.1	---	10.4	10.1	8.8	---	---	5.6b	---	---
12	---	---	10.0	10.9	10.7	10.1	8.9	---	---	5.7b	---	7.9
13	---	---	9.8	10.9	10.7	10.3	9.4	---	---	5.8	---	6.8
14	5.5b	---	10.0	10.9	10.3	9.6	9.5	---	---	6.0	---	6.7b
15	5.7b	---	9.9	11.4	10.0	10.9	9.7	---	5.9	6.1b	---	7.6
16	5.1b	---	9.6	11.0	10.9	11.5	9.1	---	6.4	6.1	---	7.5
17	---	---	9.4	10.8	11.5	11.8	8.6	---	6.6	6.3	---	7.2
18	---	---	9.6	10.9	11.6	11.6	8.7	---	6.6	6.9	---	6.8
19	---	---	9.0	10.9	11.5	11.2	---	---	7.3	6.7	---	5.9
20	---	---	8.8	10.8	10.9	11.1	---	---	7.0	6.7	---	5.8
21	---	---	9.1	10.7	10.4	11.1	---	---	7.9	6.8	---	6.3b
22	---	---	8.6	11.0	10.4	10.9	---	---	7.0	7.0	---	6.5
23	---	---	8.7	11.4	10.0	10.6	---	---	5.9	7.1	---	6.3
24	---	---	8.4	11.3	10.0	10.2	---	---	5.6	7.0	---	6.2b
25	---	---	8.6	11.6	9.9	10.3	---	---	6.1	7.0	---	---
26	---	---	9.0	11.8	10.6	10.5	---	---	6.3	6.2	---	---
27	---	---	9.5	11.5	11.0	10.6	---	---	6.2	6.4	---	---
28	---	---	9.3	11.6	11.6	10.1	---	---	5.6b	6.7	---	---
29	---	---	9.9	11.0	---	9.6	---	---	6.5	6.4	---	---
30	---	---	10.3	10.7	---	9.8	---	---	6.4	5.9b	---	---
31	---	---	9.5b	11.0	---	10.3	---	---	---	6.1	---	---



DAILY MEAN DISSOLVED OXYGEN, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

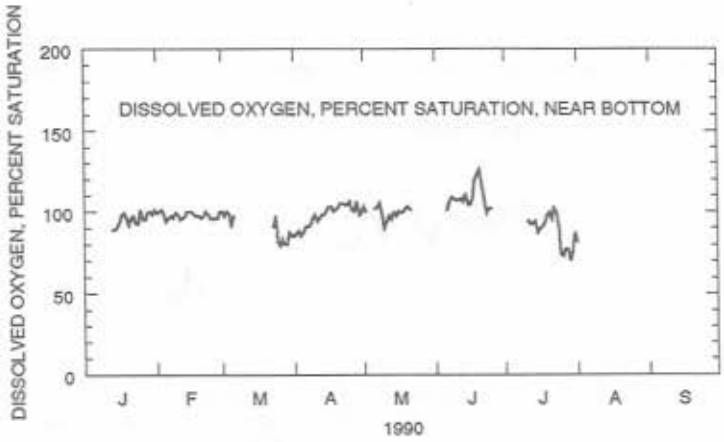
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for January through September 1990.--Maximum value recorded, 141 percent June 20, 1990; minimum value recorded, 45 percent July 29, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), JANUARY-SEPTEMBER 1990

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	99	100	85	103	---	---	82	---
2	---	100	97	86	100	---	---	---	---
3	---	101	100	88	---	---	---	---	---
4	---	98	98	85	---	---	---	---	---
5	---	94	91	87	---	---	---	---	---
6	---	96	97	91	102	101	---	---	---
7	---	97	---	91	103	105	---	---	---
8	---	96	---	92	105	109	---	---	---
9	---	99	---	96	97	108	---	---	---
10	---	98	---	98	90	107	---	---	---
11	---	95	---	94	94	107	94	---	---
12	---	96	---	96	97	108	92	---	---
13	89	97	---	98	95	106	93	---	---
14	89	100	---	98	99	111	94	---	---
15	91	100	---	101	97	104	87	---	---
16	94	100	---	103	100	104	89	---	---
17	98	98	---	103	99	108	91	---	---
18	99	97	---	100	100	119	93	---	---
19	96	97	---	101	102	123	97	---	---
20	92	96	---	103	103	126	99	---	---
21	96	97	---	105	101	118	95	---	---
22	97	100	---	105	---	108	102	---	---
23	93	98	91	104	---	99	99	---	---
24	93	96	97	104	---	102	90	---	---
25	101	95	82	106	---	102	74	---	---
26	95	96	79	101	---	---	73	---	---
27	95	96	83	100	---	---	77	---	---
28	99	100	80	106	---	---	77	---	---
29	100	---	80	98	---	---	70	---	---
30	98	---	87	99	---	---	74	---	---
31	101	---	85	---	---	---	87	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 22.--*Daily mean values of specific conductance, salinity, water temperature, dissolved oxygen, and dissolved oxygen, percent saturation, in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991*--Continued

[Location of site 11 is latitude 35°53'00", longitude 75°37'30", Dare County; U.S. Geological Survey downstream order number 0208117980]

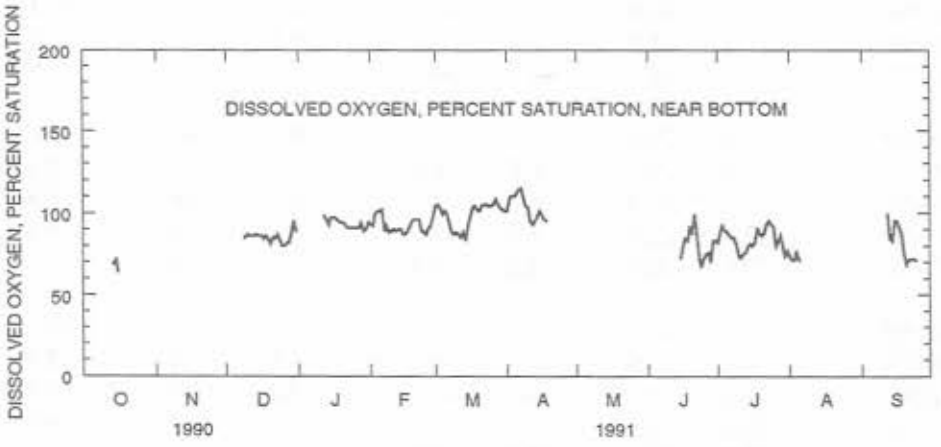
Dissolved Oxygen, Percent Saturation, Near Bottom

Sensor Position.--2 feet above streambed.

Extremes for October 1990 through September 1991.--Maximum value recorded, 128 percent April 7, 1991; minimum value recorded, 37 percent December 31, 1990.

DAILY MEAN VALUES OF DISSOLVED OXYGEN, PERCENT SATURATION, NEAR BOTTOM (in percent), OCTOBER 1990-SEPTEMBER 1991

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	---	---	---	---	93	104	101	---	---	82	74	---
2	---	---	---	---	92	105	109	---	---	88	71	---
3	---	---	---	---	99	103	110	---	---	92	71	---
4	---	---	---	---	101	99	110	---	---	89	77	---
5	---	---	---	---	101	101	111	---	---	89	71	---
6	---	---	---	---	102	99	114	---	---	86	---	---
7	---	---	---	---	89	94	115	---	---	85	---	---
8	---	---	---	---	92	88	109	---	---	85	---	---
9	---	---	85	---	88	87	104	---	---	81	---	---
10	---	---	87	---	89	88	103	---	---	74	---	---
11	---	---	86	---	90	87	95	---	---	73	---	---
12	---	---	86	98	89	85	93	---	---	75	---	99
13	---	---	86	96	90	88	95	---	---	76	---	85
14	69	---	87	93	90	83	97	---	---	79	---	83
15	71	---	86	97	87	93	101	---	73	81	---	95
16	64	---	86	97	87	97	99	---	80	80	---	95
17	---	---	84	97	89	103	96	---	84	82	---	91
18	---	---	86	95	92	104	95	---	83	90	---	87
19	---	---	84	94	95	102	---	---	91	88	---	76
20	---	---	81	94	96	101	---	---	88	86	---	69
21	---	---	85	93	96	104	---	---	99	88	---	71
22	---	---	84	91	96	105	---	---	89	93	---	72
23	---	---	87	91	89	105	---	---	73	95	---	72
24	---	---	83	91	88	104	---	---	67	93	---	71
25	---	---	80	91	87	104	---	---	72	92	---	---
26	---	---	80	91	91	105	---	---	75	80	---	---
27	---	---	82	91	92	108	---	---	76	82	---	---
28	---	---	82	94	98	105	---	---	70	86	---	---
29	---	---	88	89	---	103	---	---	83	81	---	---
30	---	---	95	90	---	102	---	---	83	74	---	---
31	---	---	89	94	---	101	---	---	---	77	---	---



DAILY MEAN DISSOLVED OXYGEN, PERCENT SATURATION, ROANOKE SOUND AT CHANNEL LIGHT 22

Table 23.--*Five-day mean water temperature and dissolved-oxygen values in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991, for day and night periods*

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/30/89-01/03/90	---	---	---	---	---	---	---	---
01/04/90-01/08/90	---	---	---	---	---	---	---	---
01/09/90-01/13/90	6.1	5.2	---	---	11.0	10.9	11.2	11.2
01/14/90-01/18/90	6.7	6.8	---	---	11.5	11.3	11.7	11.5
01/19/90-01/23/90	10.0	9.8	---	---	11.0	10.7	10.8	10.3
01/24/90-01/28/90	11.5	11.0	---	---	10.9	10.8	10.8	10.6
01/29/90-02/02/90	12.2	12.1	---	---	10.9	10.6	10.8	10.6
02/03/90-02/07/90	12.5	11.9	---	---	10.4	10.2	10.5	10.3
02/08/90-02/12/90	12.4	11.9	---	---	10.5	10.3	10.5	10.3
02/13/90-02/17/90	13.7	13.3	---	---	10.5	10.1	10.4	10.1
02/18/90-02/22/90	11.7	11.2	---	---	10.8	10.6	10.7	10.6
02/23/90-02/27/90	9.3	8.2	---	---	11.3	11.3	11.2	11.2
02/28/90-03/04/90	8.9	8.5	---	---	11.5	11.3	11.6	11.4
03/05/90-03/09/90	10.2	9.1	---	---	11.2	11.0	10.7	10.9
03/10/90-03/14/90	---	---	---	---	---	---	---	---
03/15/90-03/19/90	---	---	---	---	---	---	---	---
03/20/90-03/24/90	14.2	13.4	---	---	10.9	10.3	9.7	9.2
03/25/90-03/29/90	11.3	10.7	---	---	10.3	10.0	8.9	8.9
03/30/90-04/03/90	13.0	12.7	---	---	10.2	10.0	9.2	9.1
04/04/90-04/08/90	13.8	13.2	---	---	10.1	9.9	9.4	9.2
04/09/90-04/13/90	15.3	14.6	---	---	10.3	10.0	9.9	9.6
04/14/90-04/18/90	16.1	15.3	---	---	10.2	10.0	10.1	9.9
04/19/90-04/23/90	17.2	16.8	---	---	10.1	9.7	10.1	9.9
04/24/90-04/28/90	22.1	21.7	---	---	9.5	9.1	9.2	8.9
04/29/90-05/03/90	22.3	21.7	---	---	9.0	8.7	8.9	8.5
05/04/90-05/08/90	21.0	20.3	---	---	9.5	9.0	9.4	8.9
05/09/90-05/13/90	20.5	20.2	8.9	8.4	9.2	8.7	8.7	8.3
05/14/90-05/18/90	22.8	22.2	8.6	8.1	9.4	8.9	8.8	8.4
05/19/90-05/23/90	22.0	21.0	8.3	8.0	8.7	8.5	8.8	8.4
05/24/90-05/28/90	20.8	20.4	8.8	8.5	9.1	8.8	---	---
05/29/90-06/02/90	---	---	---	---	---	---	---	---
06/03/90-06/07/90	24.2	23.6	---	---	8.8	8.3	8.9	8.5
06/08/90-06/12/90	26.5	25.3	---	---	8.4	8.0	8.9	8.6
06/13/90-06/17/90	22.5	22.1	---	---	9.1	8.9	9.2	9.3
06/18/90-06/22/90	26.8	26.4	8.8	8.0	8.5	7.7	9.7	9.2

Table 23.--*Five-day mean water temperature and dissolved-oxygen values in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/23/90-06/27/90	27.8	27.3	7.9	7.3	5.6	5.2	8.1	7.6
06/28/90-07/02/90	27.6	---	---	---	---	---	7.9	---
07/03/90-07/07/90	---	---	---	---	---	---	---	---
07/08/90-07/12/90	29.6	28.9	7.1	6.3	8.0	7.1	7.8	6.8
07/13/90-07/17/90	28.4	28.0	7.2	6.7	7.4	6.8	7.3	6.7
07/18/90-07/22/90	29.3	28.9	7.2	6.5	7.6	6.9	7.8	7.2
07/23/90-07/27/90	29.0	28.1	7.4	6.9	7.3	6.5	6.5	6.0
07/28/90-08/01/90	28.3	27.8	7.6	7.1	6.4	5.9	6.2	6.0
08/02/90-08/06/90	28.5	27.8	7.8	7.4	---	---	---	---
08/07/90-08/11/90	27.1	26.9	---	---	7.4	7.1	---	---
08/12/90-08/16/90	---	---	---	---	7.6	7.1	---	---
08/17/90-08/21/90	---	---	---	---	---	---	---	---
08/22/90-08/26/90	---	---	---	---	---	---	---	---
08/27/90-08/31/90	---	---	---	---	---	---	---	---
09/01/90-09/05/90	---	---	---	---	---	---	---	---
09/06/90-09/10/90	---	---	---	---	---	---	---	---
09/11/90-09/15/90	---	---	---	---	---	---	---	---
09/16/90-09/20/90	---	---	---	---	---	---	---	---
09/21/90-09/25/90	---	---	---	---	---	---	---	---
09/26/90-09/30/90	---	---	---	---	---	---	---	---
10/01/90-10/05/90	---	---	---	---	---	---	---	---
10/06/90-10/10/90	---	---	---	---	---	---	---	---
10/11/90-10/15/90	26.4	26.1	6.9	6.6	6.9	6.6	5.7	5.5
10/16/90-10/20/90	23.6	22.6	6.8	6.3	5.5	5.0	5.2	4.8
10/21/90-10/25/90	20.0	19.9	7.4	7.1	4.6	4.4	---	---
10/26/90-10/30/90	15.5	14.4	---	---	---	---	---	---
10/31/90-11/04/90	15.4	15.2	---	---	---	---	---	---
11/05/90-11/09/90	17.0	16.4	---	---	---	---	---	---
11/10/90-11/14/90	14.0	13.4	---	---	---	---	---	---
11/15/90-11/19/90	10.9	---	---	---	---	---	---	---
11/20/90-11/24/90	---	---	---	---	---	---	---	---
11/25/90-11/29/90	---	---	---	---	---	---	---	---
11/30/90-12/04/90	---	---	---	---	---	---	---	---
12/05/90-12/09/90	8.6	8.3	9.9	9.7	9.2	9.2	10.1	10.0
12/10/90-12/14/90	9.0	8.7	10.2	10.0	9.6	9.4	10.0	10.0

Table 23.--*Five-day mean water temperature and dissolved-oxygen values in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
12/15/90-12/19/90	10.8	10.7	10.0	9.8	9.7	9.5	9.6	9.2
12/20/90-12/24/90	13.9	13.5	9.8	9.5	9.7	9.4	8.7	8.6
12/25/90-12/29/90	10.2	9.9	10.3	10.2	9.5	9.6	9.4	9.4
12/30/90-01/03/91	11.2	10.8	10.4	10.2	9.5	9.2	9.8	9.7
01/04/91-01/08/91	9.7	9.4	10.8	10.6	---	---	---	---
01/09/91-01/13/91	9.3	9.0	11.0	10.8	10.6	10.4	11.1	10.8
01/14/91-01/18/91	9.4	9.1	11.2	11.0	10.8	10.7	11.1	10.9
01/19/91-01/23/91	8.1	7.5	11.3	11.2	10.9	10.9	11.0	10.9
01/24/91-01/28/91	5.5	5.2	12.2	12.1	11.8	11.8	11.7	11.6
01/29/91-02/02/91	7.5	7.3	12.2	12.0	11.5	11.4	11.0	10.9
02/03/91-02/07/91	9.9	9.8	12.3	12.1	11.8	11.7	11.2	11.0
02/08/91-02/12/91	9.1	8.2	11.4	11.2	11.1	11.0	10.4	10.4
02/13/91-02/17/91	7.4	6.9	11.7	11.7	11.5	11.5	10.8	10.7
02/18/91-02/22/91	9.5	9.7	12.3	11.9	12.0	11.6	11.0	10.6
02/23/91-02/27/91	9.1	8.5	11.7	11.5	11.2	11.2	10.3	10.5
02/28/91-03/04/91	11.5	11.5	11.6	11.2	11.3	11.0	11.2	11.0
03/05/91-03/09/91	12.9	12.0	11.0	10.8	10.9	10.7	10.0	9.8
03/10/91-03/14/91	9.2	8.4	12.0	11.8	11.8	11.6	10.1	9.9
03/15/91-03/19/91	9.7	9.4	11.9	11.6	11.6	11.6	11.5	11.5
03/20/91-03/24/91	14.1	13.9	11.2	10.6	11.2	10.7	11.0	10.5
03/25/91-03/29/91	16.8	16.5	10.8	10.4	10.7	10.3	10.4	10.1
03/30/91-04/03/91	14.9	13.8	12.3	12.0	11.1	10.9	10.8	10.6
04/04/91-04/08/91	17.1	17.1	14.0	13.2	11.3	10.6	11.1	10.4
04/09/91-04/13/91	19.1	17.9	14.9	14.7	9.9	9.5	9.4	8.9
04/14/91-04/18/91	18.8	18.3	---	8.8	9.5	9.0	9.3	8.9
04/19/91-04/23/91	16.2	15.7	10.1	9.9	9.4	9.2	---	---
04/24/91-04/28/91	19.0	18.7	9.8	9.3	9.3	8.9	---	---
04/29/91-05/03/91	23.2	22.6	8.2	7.9	8.4	8.0	---	---
05/04/91-05/08/91	22.0	21.7	8.1	7.9	8.5	8.3	---	---
05/09/91-05/13/91	22.4	22.0	8.3	7.8	8.9	8.5	---	---
05/14/91-05/18/91	26.1	25.0	6.9	6.3	8.2	7.9	---	---
05/19/91-05/23/91	21.9	21.5	6.7	6.4	8.0	7.5	---	---
05/24/91-05/28/91	27.2	27.0	6.6	6.6	6.7	6.0	---	---
05/29/91-06/02/91	30.2	29.5	---	---	6.8	6.4	---	---
06/03/91-06/07/91	26.3	24.6	---	---	7.3	6.7	---	---

Table 23.--*Five-day mean water temperature and dissolved-oxygen values in water at site 11, Roanoke Sound at channel light 22, January 1990-September 1991, for day and night periods*--Continued

[Day, 9:15 a.m.-9:00 p.m.; Night, 9:15 p.m.-9:00 a.m.]

Five-day period	Mean water temperature, near surface (°C)		Mean dissolved oxygen, near surface (mg/L)		Mean dissolved oxygen, mid-depth (mg/L)		Mean dissolved oxygen, near bottom (mg/L)	
	Day	Night	Day	Night	Day	Night	Day	Night
06/08/91-06/12/91	25.1	24.7	---	---	8.4	7.9	---	---
06/13/91-06/17/91	26.5	26.1	7.2	6.7	7.5	7.1	6.0	6.0
06/18/91-06/22/91	27.0	26.5	---	---	6.5	6.0	7.3	7.0
06/23/91-06/27/91	25.2	24.2	---	---	6.3	5.6	6.1	5.8
06/28/91-07/02/91	28.4	27.8	---	---	5.2	5.6	6.6	6.3
07/03/91-07/07/91	29.0	28.7	---	---	---	---	7.0	6.6
07/08/91-07/12/91	30.0	29.4	---	---	---	---	6.0	5.6
07/13/91-07/17/91	29.4	29.0	---	---	---	---	6.2	6.0
07/18/91-07/22/91	29.2	28.8	---	---	---	---	7.1	6.5
07/23/91-07/27/91	29.5	28.7	7.7	7.0	7.1	6.4	7.0	6.4
07/28/91-08/01/91	27.5	27.2	7.1	6.8	7.1	6.7	6.4	5.9
08/02/91-08/06/91	28.4	28.1	6.2	5.7	7.1	6.4	5.9	5.5
08/07/91-08/11/91	28.1	27.6	---	---	6.9	6.3	---	---
08/12/91-08/16/91	28.0	27.5	---	---	7.1	6.4	---	---
08/17/91-08/21/91	27.7	27.1	---	---	6.8	6.0	---	---
08/22/91-08/26/91	27.6	26.8	---	---	---	---	---	---
08/27/91-08/31/91	28.7	28.1	---	---	---	---	---	---
09/01/91-09/05/91	25.4	24.5	---	---	---	---	---	---
09/06/91-09/10/91	25.8	25.0	---	7.3	---	7.4	---	6.6
09/11/91-09/15/91	26.9	26.4	8.1	7.6	8.1	7.5	7.5	7.0
09/16/91-09/20/91	27.1	25.9	7.3	6.6	7.6	7.0	6.9	6.1
09/21/91-09/25/91	21.9	21.7	6.9	6.4	8.4	7.8	6.6	6.1
09/26/91-09/30/91	21.6	20.9	6.5	6.4	8.0	7.8	---	---

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