

**UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey**

**TEMPERATURE AND WATER-QUALITY CONDITIONS
FOR THE PERIOD JULY 1963 to DECEMBER 1965
PATUXENT RIVER ESTUARY, MARYLAND**

BY

**Robert L. Cory
Jon W. Nauman**

Open-file report

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Abstract

Graphs and tables obtained from continuous records of surface-water temperature from five stations for the period July 1963 through December 1965 and of surface, salinity, dissolved oxygen, turbidity, tide-stage, wind data and bottom temperature from a single station are presented herein.

Effects of powerplant cooling water on water temperature were obvious at a station near the plant's discharge point. Surface-water density at the Patuxent River Bridge varied from 1.0033 to 1.0127 with least change during the period May to September. Salinity ranged from 3 to 16.5 parts per thousand. Average salinity in the spring of 1965 was double that of spring 1964. Turbidity was high during the winter, and peak values were obtained during prolonged periods of high wind velocities. Dissolved oxygen values ranged from 3.6 to 15.0 parts per million, and percentage saturation of oxygen from 49 to 144 percent. The extreme tidal range was 5.7 feet; mean water levels were highest in summer and lowest in winter and spring.

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Introduction

The Patuxent River, one of the tributaries of the Chesapeake Bay estuarine system, is unique in that the entire river basin lies within the State of Maryland. The 110-mile river drains an area of about 930 square miles (Heidel and Frenier, 1965). About one-half its length is affected by tides, and during dry periods saline water moves upstream about 50 miles above the mouth. Though lying between the large metropolitan areas of Washington, D. C., Annapolis, and Baltimore, the land adjacent to the shores of the river, and particularly the estuary, are relatively undeveloped. The largest population center in the basin is the rapidly growing city of Laurel.

To evaluate the effects of expected urban and industrial development, the University of Maryland Natural Resources Institute, the U.S. Geological Survey, and other state, federal, and private agencies began a comprehensive program to study the chemical, physical, and biological characteristics of the river. Particular emphasis has been placed on studies in the estuary. The installation by the Potomac Electric Power Co. of a large steam-generating plant at Chalk Point (fig. 1) offered the opportunity of studying the "before and after" ecological conditions and effects on ecology of the addition of a large volume (500,000 gallons per minute) of heated water to the estuary. Although chlorine and boiler blowdown chemicals are used in normal plant operation, the large volume of cooling water or "thermal loading" is the primary concern. The "before" phase of the comprehensive study began in the spring of 1962 and ended in December 1964, at the time

the powerplant began operating continuously. The "after" phase will continue for at least 3 years after December 1964. It is hoped the knowledge gained will be sufficient for evaluating future additions of heated water to this estuary and to others of a similar nature.

In 1963 Geological Survey began a program of continuously recording surface temperatures at selected sites on the estuary. In addition, surface and bottom temperature, conductivity, dissolved oxygen, turbidity, tide stage, wind direction, and velocity were obtained at the Patuxent River bridge. The bridge is situated in the middle part of the estuary about 5 kilometers (2.5 nautical miles) below the powerplant discharge point. The purpose of collection of these data is to furnish a background of continuous physical information which will be helpful in interpreting short-period extreme ecological changes caused by storms or rapid weather changes and to reveal subtle long-period changes due to climatic fluctuations or pollution. Correlation of the data presented herein with biological studies to help explain why particular species fluctuate in abundance as they do would be of considerable value, particularly if the fluctuations are due to environmental changes.

The data presented in this report are not extensive nor entirely complete; however, past and current needs for the data by scientists working on associated projects warrant their early release. It is hoped a yearly data report will be released in the future.

Data Collection

Water-temperature data at the surface were collected from five stations (fig. 1) selected to give broad areal coverage of the estuary. The Eagle Harbor and Patuxent Bridge sites were chosen to aid in thermal studies near the Chalk Point powerplant. A U.S. Geological Survey (USGS) recording milliammeter (0.0 to 1.0 milliamp range) was adapted for continuous temperature recording by employment of a wheatstone bridge circuit using a 1,000-ohm thermistor, rechargeable 15-volt alkaline batteries, and voltage regulator. The system was set up to use 9.6 volts across the thermistor, and by means of a reversing polarity switch an overlapping dual temperature range of -3° to $+26^{\circ}\text{C}$ and -15° to $+43^{\circ}\text{C}$ was made available. These recorders required weekly winding of the clock chart-drive mechanism.

A USGS water-quality data-collection system is housed at the center of the channel on the Patuxent River Bridge (fig. 1). The installation and operation of this unit have been described elsewhere (Cory, 1965). Eight variables are recorded continuously on an 11-inch analog strip chart. The range of recorded values is: dissolved oxygen, 0-400 Jackson candle units; temperature, -2° to 40° centigrade; wind direction 0° - 360° ; wind velocity 0-80 mph; and tide stage 0-12 feet. In October 1963 this unit began recording surface temperature, conductivity, and dissolved oxygen. The other sensors were added at later dates. Weekly and, later, biweekly calibration checks have been made since installation. Data which do not meet calibration specifications (Cory, 1965) have been omitted. Conductivities with concurrent temperatures have been converted to salinities by use of

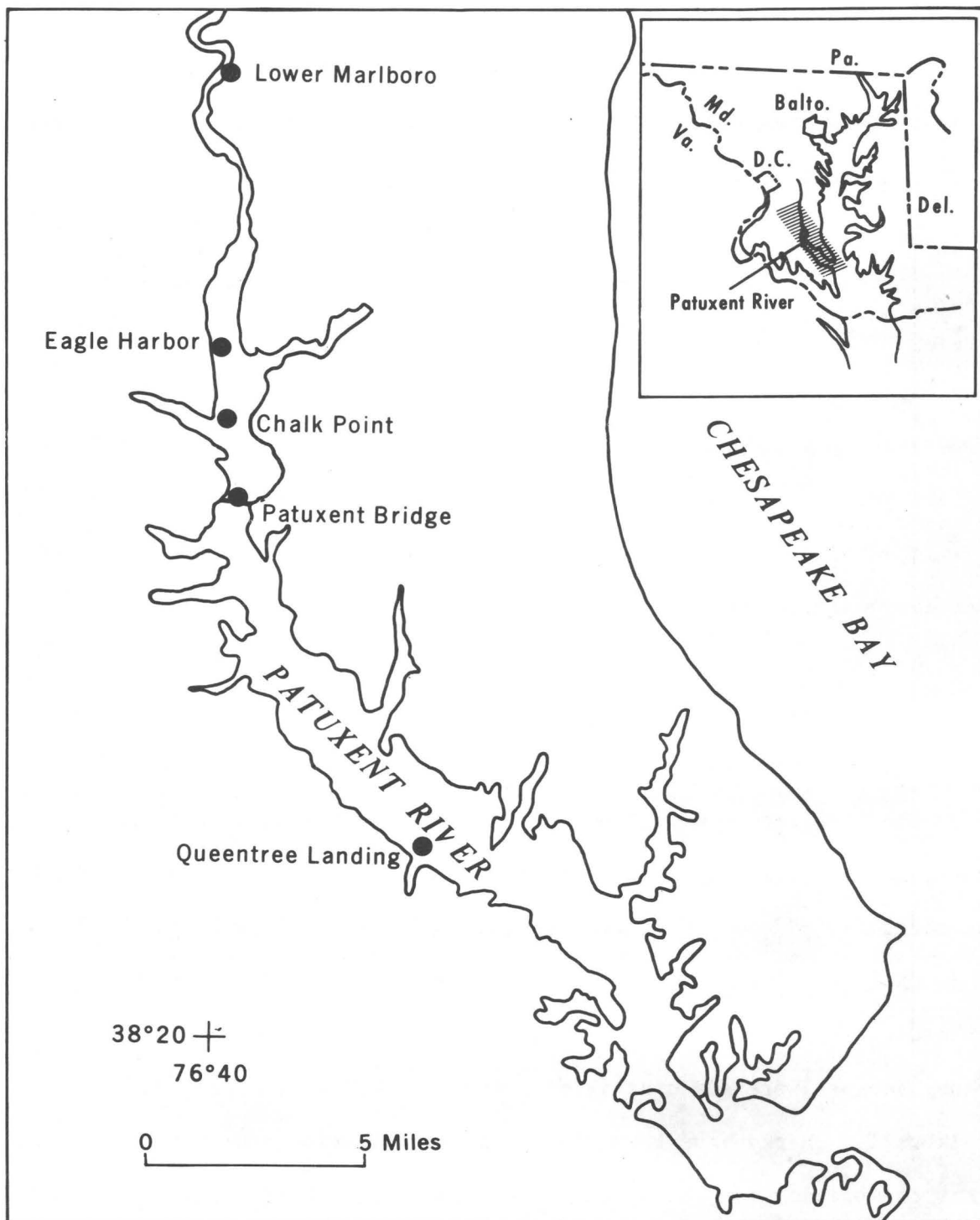


Figure 1.-Patuxent River estuary; USGS surface-water-temperature recorders are located at each station, and a USGS water-quality-data-collection system is located at the Patuxent Bridge station.

tables based on calculations of Thomas, Thompson, and Utterback (1934). The conductivity values for these conversions, and also those used for salinity values needed for calculation of percentage saturation dissolved oxygen, have been omitted from this presentation because of space limitations.

Daily maximum and minimum values were tabulated from the data collected, placed on IBM punchcards and programmed for computer analysis. The results are presented in tables 1 to 5, showing weekly mean, maximum, and minimum and extreme maximum and minimum.

RESULTS

Temperature

Temperature fluctuates with the tide, diurnally, seasonally, and from year to year. Prior to discharge of heated water from the Chalk Point powerplant average maximum weekly surface temperatures at any time showed little variation among the observation sites (fig. 2, tables 1-5). Nash (1947) observed water temperatures increased upchannel during periods of warming and decreased during periods of cooling. Nash attributed this to the fact that the ratio of surface area to volume increases in an upstream direction resulting in more rapid seasonal changes in upstream temperatures. Though downstream to upstream differences are slight (fig. 2). close inspection of the temperature curves shows that, during period of warming or cooling, Queentree Landing temperatures lag slightly behind those of Lower Marlboro. These differences are most noticeable in the spring and autumn months of 1965.

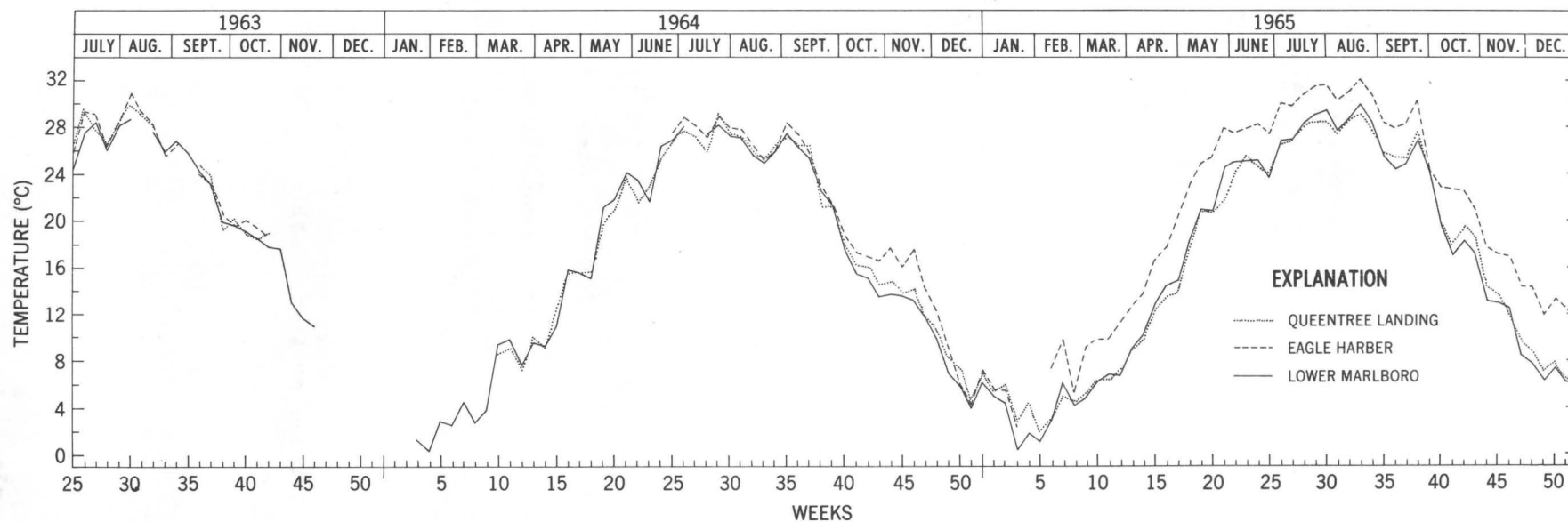


Figure 2.-Weekly average surface water temperatures from three locations.

Stations were selected to show temperatures from extreme upstream and downstream portions of study area and for Eagle Harbor, the location most affected by powerplant cooling water.

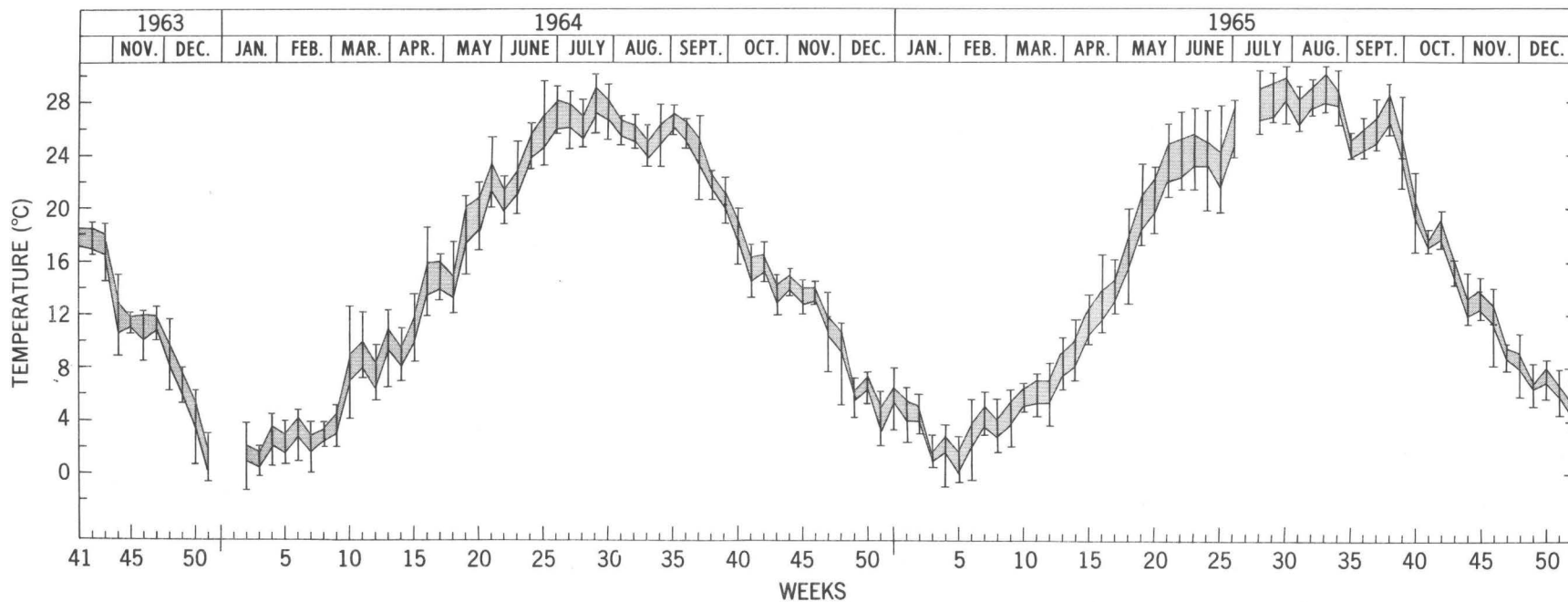


Figure 3.-These data represent natural surface water temperature of the estuary at the Patuxent River bridge. Weekly average maximum and minimum surface water temperatures are shown by shaded portion and weekly extreme temperatures by vertical bars.

The presence of the heated powerplant water was first detected at the Eagle Harbor station in early September 1964 (fig. 2), again in October and November 1964, and was readily apparent throughout 1965. The maximum temperature recorded was 33.0°C at Eagle Harbor in 1965; this was 2.1°C higher than that observed at any of the other sites.

The weekly water temperatures at the Patuxent Bridge site (fig. 3, table 1) can be considered to reflect typical thermal fluctuations of the Patuxent estuary. Temperatures at this station ranged from a low of -1.2°C to a high of 30.9°C, and the largest weekly change was 8°C.

At the bridge site, in a mean depth of water of 7 meters, surface-to-bottom differences in average water temperatures were as much as 1.7°C during the summer (fig. 4, table 1). Surface water was warmer than bottom water from mid-February to the beginning of October, then cooler the remainder of the year.

Density

Weekly average surface-water densities at the bridge station were determined by the use of temperature, salinity, density nomograms from the weekly average maximum temperatures and salinities. Densities ranged from a low of 1.0033 grams/liter to a high of 1.0127 (fig. 4, table 6) for the period of record. Density decreased from a high in December to a low in May and June. In both years the period of least change in density occurred between June and mid-September.

This relative stability in density was caused by the combination of (1) rising temperature, which tends to decrease density, and (2) rising

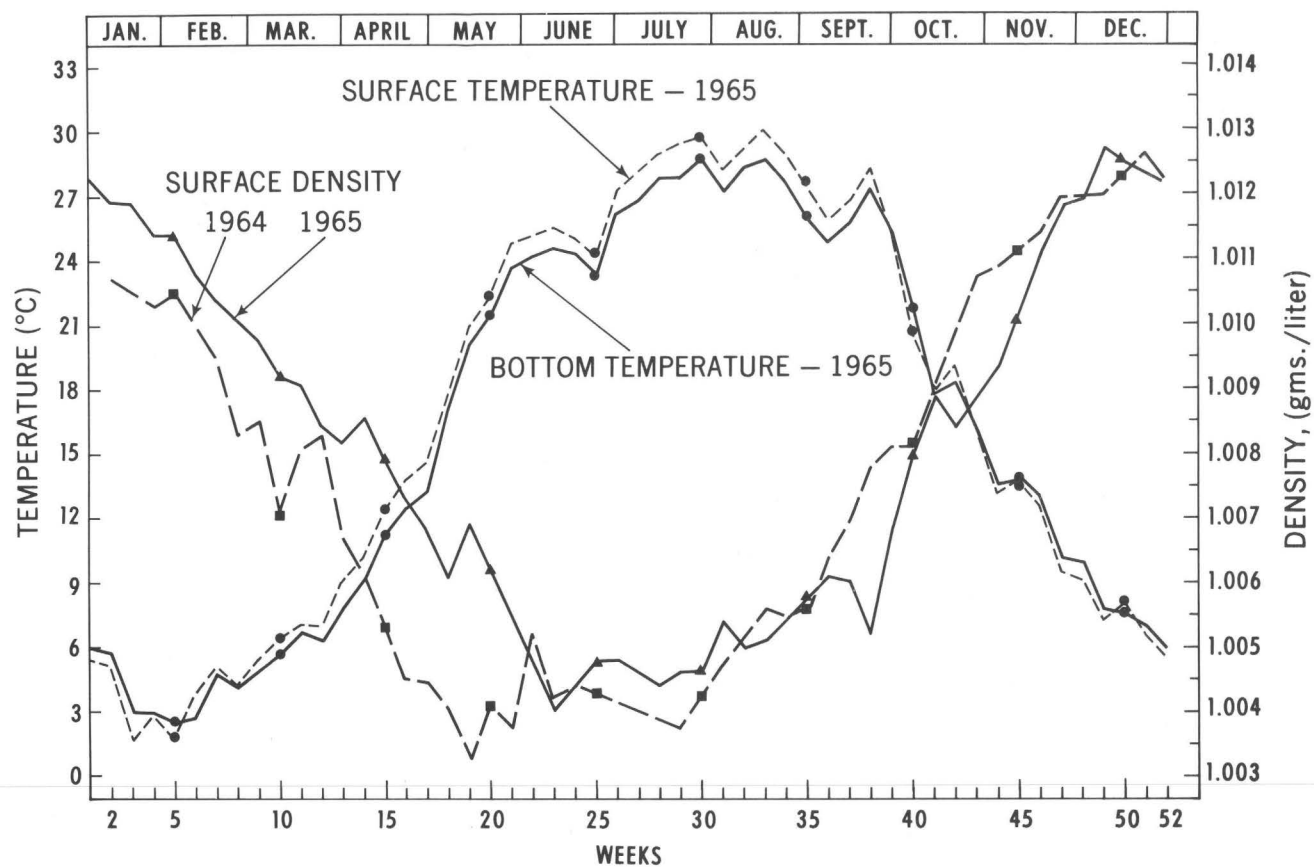


Figure 4.-Weekly average, maximum surface-and bottom-water temperatures from Patuxent Bridge station for year 1965 and weekly average maximum surface densities for years 1964 and 1965.

salinity, which tends to increase it. This also coincides with periods of maximum biological activity and may be an important factor in the welfare of organisms adapting to what appears to be a rapidly changing environment. Differences in density between the two years studied was most pronounced from January to June, when higher salinity of 1965 caused a higher density for that year.

Salinity

Salinity at the bridge station (fig. 5, table 1) for the period October 1963 to December 1965 ranged from a low of 3 parts per thousand (ppt) January 11, 1964, to a high of 16.5 ppt, November 20, 1964. Highest average salinities occurred in November and December of each year, then declined to reach lowest values in April and May.

The January 1964 record-low salinity was preceded by gentle southeast winds for several days, accompanied by about 3 inches of rain. On January 10 winds shifted abruptly to the northwest and velocities increased. Salinity dropped rapidly during this period and reached the low point of 3 ppt on the ebb tide of the 11th, but within a week salinity measurements returned to normal values of 12 ppt. The range of weekly salinities is rather wide between December and April, when differences in extremes average about 5 ppt, and were as much as 12 ppt in 1 week. Variations between May and November were considerably less, with differences in weekly extremes averaging about 2 ppt.

During the period of this study the area experienced a rather severe drought. The resultant decrease in streamflow was reflected in the pro-

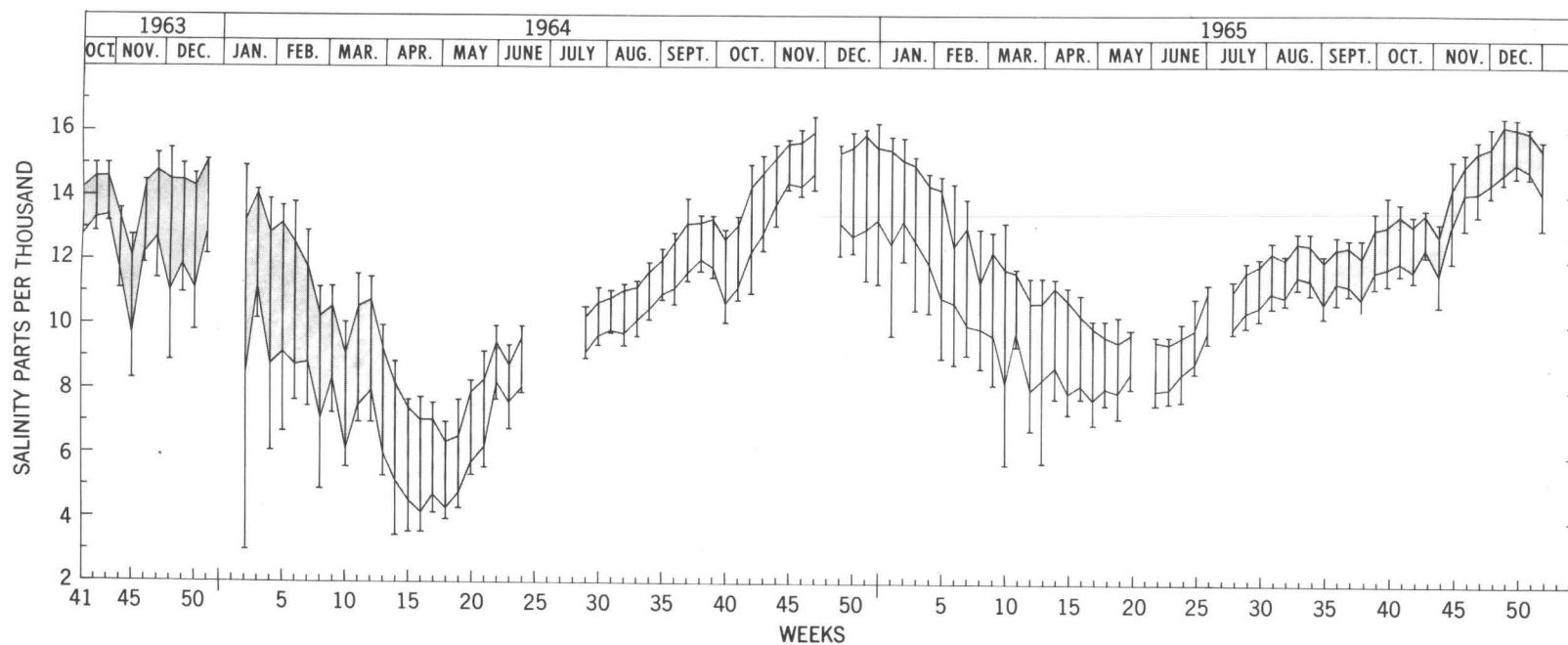


Figure 5.-Weekly average maximum and minimum surface salinity (shaded portion) and weekly extreme surface salinity (vertical bars) from Patuxent Bridge station.

gressively higher salinities recorded during the three winters of observation; i.e., highest weekly average salinities were 15.0 ppt in 1963, 16.0 ppt in 1964, and 16.2 ppt in 1965. The most pronounced effect of the drought on salinity was during the dry spring of 1965, when the lowest weekly average salinity was 7.0 ppt as compared to the low of 4.4 ppt in the spring of 1964.

Turbidity

Turbidity, caused by the presence of suspended matter such as silt, clay, or finely divided organic material in the water, is measured at the bridge station with a recording turbidimeter. The unit is calibrated to measure turbidity in Jackson candle units (JCU) (APH, AWWA, and WPCA, 1960), and no attempt has been made in this study to relate the readings with sediment type or with concentration of suspended matter.

Surface turbidities change with the tide, season, and weather conditions. Highest readings were associated with windstorms from the north and northwest directions and always occurred during low tide. On April 4, 1964, a peak value of 358 JCU was recorded (fig. 6, table 1). Prior to the high turbidity reading, northwest winds with velocities of 20 to 40 mph blew for a period of 20 hours. During this time two complete cycles of tide were depressed as much as 2 feet below mean low water. The high turbidity occurred at the first of the low tides, the lowest tide observed during the period of record. When the winds subsided, turbidity values rapidly decreased to between 100 and 250 JCU, and by noon of April 5 readings were back to prestorm values of about 20 JCU.

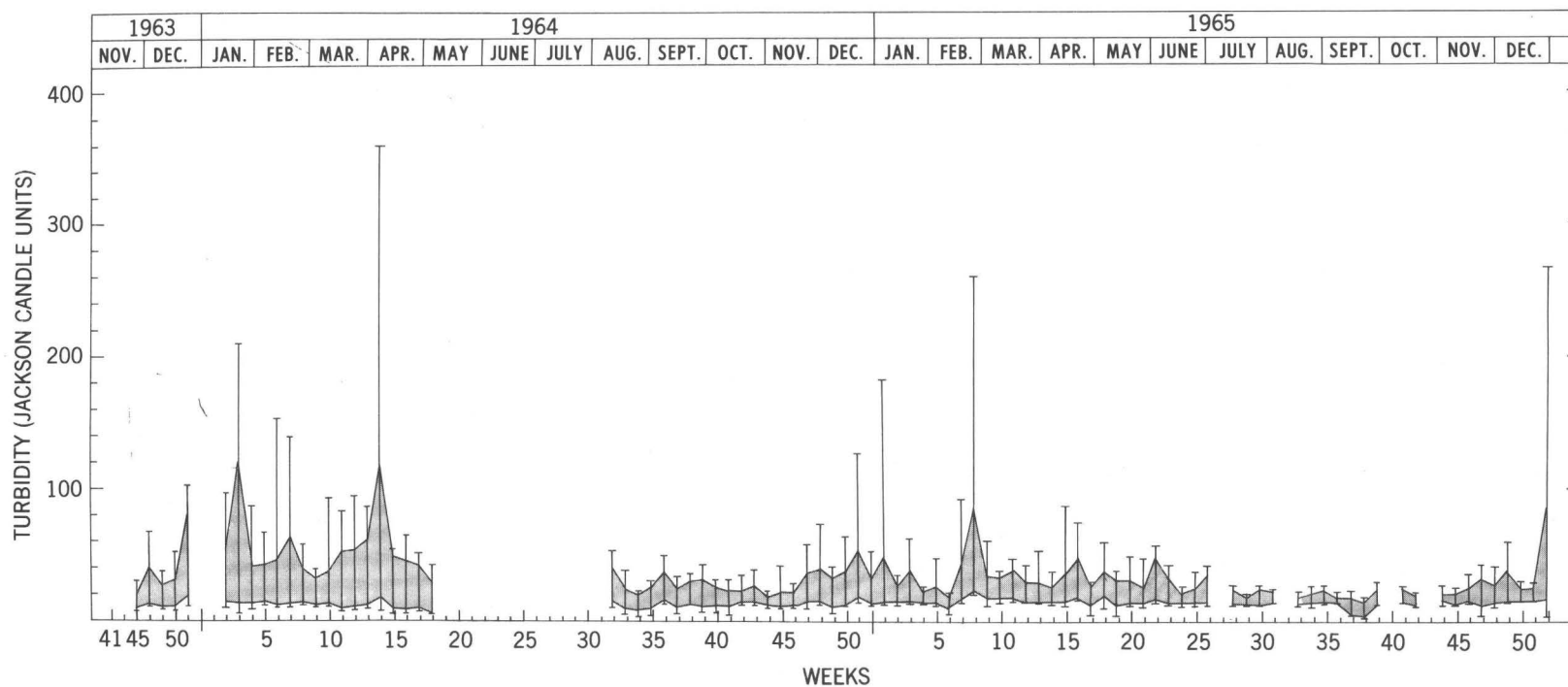


Figure 6.-Weekly average maximum and minimum surface turbidity (shaded portion) and weekly extreme turbidity (vertical bars) from Patuxent Bridge station.

Seasonally, turbidities were highest in the winter months and lowest in September and October. Average minimum values stayed near 20 JCU for the entire year, the average maximum values increasing during winter storms. Turbidity was low and fairly constant during both summers. Because of calibration difficulties, data collected between April and August 1964 were omitted; however, the records indicate stable conditions of low turbidity persisted, which were similar to those observed in 1965.

Dissolved Oxygen

Measurements of dissolved oxygen (DO) concentration of the surface water at the bridge station and computations of percent saturation showed that oxygen remained sufficiently high to maintain aquatic life. Seasonally, DO was highest in March of both years studied and lowest in June and August 1964 and August and September of 1965 (fig. 7b, table 1). Minimum concentration recorded was 3.6 parts per million (ppm) June 20 and July 2, 1964, and the maximum 15.0 ppm March 3, 1965. Nash (1947) at Solomons, Maryland, in the lower Patuxent estuary, recorded a range in concentration of 3.3 to 14.8 ppm in waters of slightly higher salinity.

The general character of the percentage saturation curves from year to year was about the same. During the winter months, November through January, values were between 80 and 105 percent; in March and early April percent saturation increased, in late April it decreased, then reached an average high of 130 percent in May, decreased in June, increased in July, then declined to reach an average low of 60 percent in August and September, and rose again in October and November. A greater range in both weekly average and extreme values was evident in 1965.

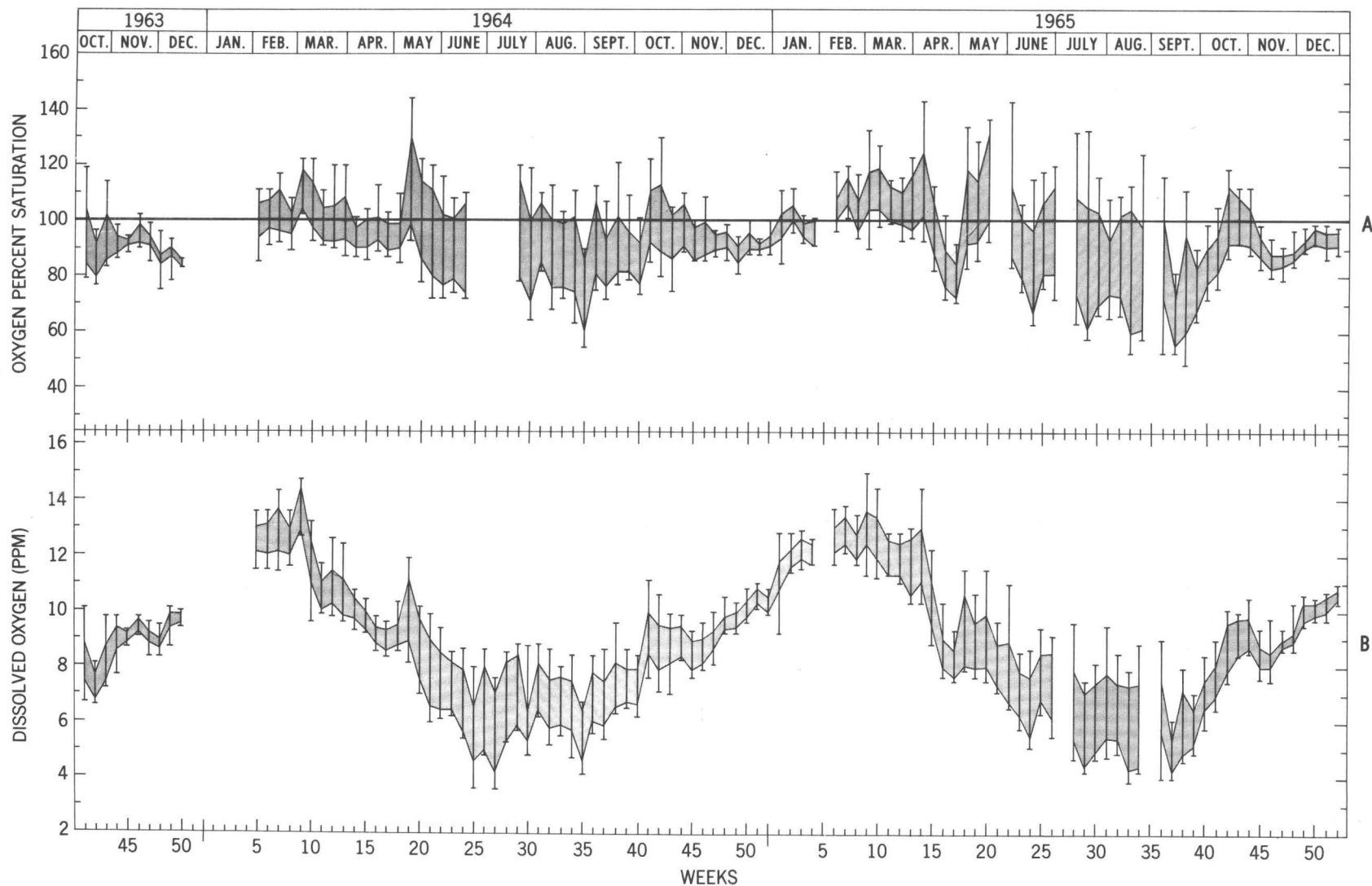


Figure 7a.-Weekly average maximum and minimum percentage saturation of dissolved oxygen (shaded portion) and extreme percentage saturation (vertical bars) from Patuxent Bridge station.

Figure 7b.-Weekly average maximum and minimum dissolved oxygen (shaded portion) and extreme dissolved oxygen (vertical bars) from Patuxent Bridge station.

Large Weekly variations in Oxygen and percent saturation during the period March through November of both years reflect the large daily changes (table 1) that took place during these periods. These changes are undoubtedly the result of production of oxygen by the photosynthesis of green plants during the period of light and the absorption of oxygen by respiration of all living organisms, including the oxidation of organic matter both day and night.

The effects of respiration by living matter were evident throughout the year and accounted for the deoxygenation of the water. The oxygen consumers can be divided into two groups: (1) bacteria and related organisms, which may occur in huge numbers, and (2) large animals and plants, which absorb oxygen needed for life processes. The low weekly values of DO and percent saturation (figs. 7a and b) reflect the consumption of oxygen, the greatest consumption during the warm months and after periods of darkness. Diurnally lowest values occurred near dawn and highest between 1 and 6 p.m. The higher frequency of low percentage saturation observed in 1965 probably indicates the presence of more organic matter, which in turn required higher consumption of oxygen. The apparent increase in organic matter may be associated with the dry conditions of that year and resultant prolonged entrapment of nutrients in the estuary, or it may be the effects of increased organic loading from the upriver communities. Future records will indicate whether a trend toward critically high oxygen consumption has begun or not.

Wind Direction and Velocities

Bihourly readings (12 per day) of wind velocities and direction from continuous records taken at the bridge station have been summarized in

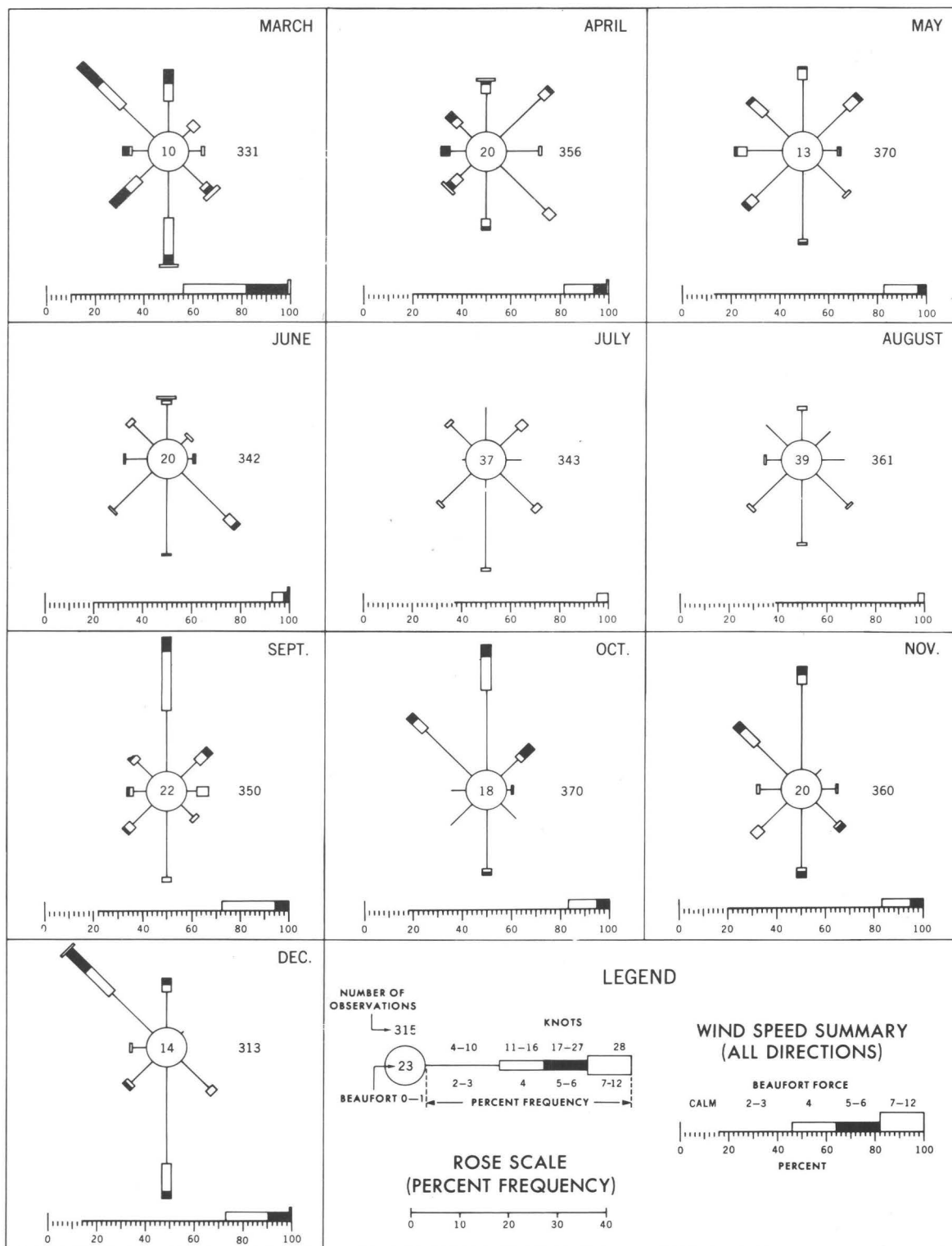


Figure 8.—Monthly summaries of wind directions and velocities, 1964.

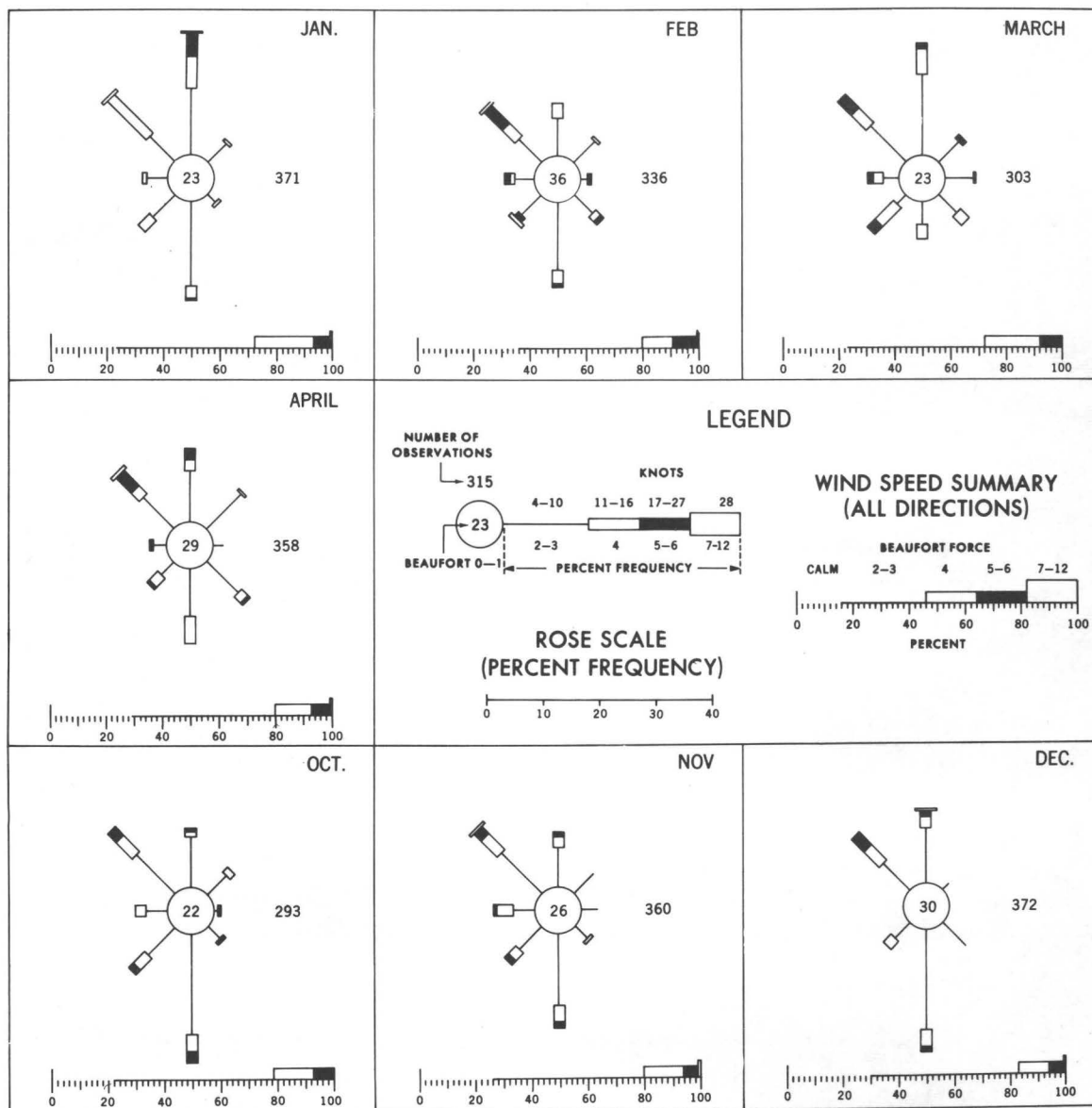


Figure 9.-Monthly summaries of wind directions and velocities for the year 1965.

monthly wind roses, figs. 9 and 10. The winds, as portrayed by the roses, are distributed among 8 directions and 5 speed groups and plotted to the nearest whole percent; U.S. Navy Oceanographic Office (1963). To determine the percentage of winds from a certain direction, the total length of the arm facing that direction (north is at the top) should be measured and compared with the rose scale in the legend of fig. 9. Thus 28 percent of the 350 observations from September 1964 were northerly. Of this 28 percent (98 observations), 45 percent had velocities of Beaufort force 2-3, 45 percent of Beaufort 4, and 10 percent Beaufort 6 (Garbett, 1926).

The total frequency of winds falling within a certain speed group may be estimated by measuring the length of each contribution on the bar graph located at the base of each rose. March 1965, for instance, Beaufort force 2 and 3 account for 46 percent of the total 303 observations, Beaufort 4 for 25 percent, Beaufort 5 and 6 for 18 percent, and Beaufort 7-12 for 1 percent. The 10 percent of Beaufort 0-1 winds as shown on the bar graph are also indicated by the number in the center of the circle.

Tides

During the period of study the extreme range of tide at the bridge site was 5.7 feet (figs. 8, table 1). The mean range, difference in height between mean high water and mean low water, was 1.9 feet.

Daily, weekly, and seasonal variations in sea level are goverened by changes in winds and barometric pressure. Generally, mean water levels were lowest from November to the middle of April, when prevailing and strongest winds came from the north and northwest, and were highest the remainder of the year, when

Figure 10.-Weekly average maximum and minimum (shaded portion) and weekly extreme (vertical bars) tide heights at Patuxent Bridge station. Because datum was not determined for this station, gage was arbitrarily set to read 4 1/2 feet above the lowest water expected.

prevailing winds were from the south and southeast. In tidal rivers, such as the Patuxent, water levels are also affected seasonally by freshets and droughts; however, even the effects of spring runoff can be overcome by prevailing winds, which account for the below-average levels observed during the 12th to 16th weeks of 1964 and the 11th to 14th weeks of 1965, the periods when the maximum runoff occurred.

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TABLE 1. WATER QUALITY AT PATUXENT RIVER BRIDGE, MD.

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE			SURFACE MAX	MIN	BOTTOM MAX	MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN
41	10	09	63	--	17.5	--	--	10.1	119	--	--	--	--	13.90	12.10
41	10	10	63	18.9	17.6	--	--	9.7	115	8.4	80	--	--	14.10	12.50
41	10	11	63	18.7	17.6	--	--	8.5	99	7.5	88	--	--	14.30	13.30
41	10	12	63	18.4	17.5	--	--	8.5	100	7.5	88	--	--	14.30	12.90
41	10	13	63	18.2	16.8	--	--	8.5	100	7.4	87	--	--	14.30	12.70
41	10	14	63	18.4	16.2	--	--	8.6	101	7.3	85	--	--	14.40	13.20
41	10	15	63	18.6	16.6	--	--	8.1	93	6.7	79	--	--	14.50	12.90
EXTREME				18.9	16.2	--	--	10.1	119	6.7	79	--	--	14.50	12.10
AVERAGE				18.5	17.1	--	--	8.8	103	7.4	84	--	--	14.25	12.80
42	10	16	63	18.6	16.5	--	--	7.6	91	6.8	80	--	--	14.20	12.90
42	10	17	63	18.7	16.6	--	--	7.5	89	6.7	79	--	--	14.40	12.90
42	10	18	63	18.9	16.9	--	--	7.7	91	6.6	77	--	--	14.50	13.20
42	10	19	63	18.7	17.0	--	--	7.6	91	6.6	78	--	--	14.50	13.30
42	10	20	63	18.3	17.4	--	--	7.5	88	6.8	80	--	--	14.70	13.30
42	10	21	63	18.2	17.0	--	--	8.1	96	6.8	80	--	--	14.90	13.60
42	10	22	63	17.8	16.7	--	--	8.0	93	7.2	85	--	--	15.00	13.70
EXTREME				18.9	16.5	--	--	8.1	96	6.6	77	--	--	15.00	12.90
AVERAGE				18.4	16.8	--	--	7.7	91	6.7	79	--	--	14.60	13.27
43	10	23	63	17.6	16.4	--	--	8.6	101	7.2	83	--	--	15.00	13.70
43	10	24	63	18.7	16.6	--	--	9.8	114	7.5	87	--	--	14.50	13.60
43	10	25	63	17.9	16.6	--	--	9.0	105	7.5	86	--	--	14.40	13.30
43	10	26	63	18.4	17.2	--	--	8.9	105	7.6	88	--	--	14.40	13.50
43	10	27	63	18.8	17.4	--	--	8.7	102	7.5	88	--	--	14.40	13.30
43	10	28	63	17.9	16.8	--	--	8.3	97	7.6	89	--	--	14.50	13.20
43	10	29	63	16.8	14.6	--	--	8.2	91	7.5	85	--	--	14.70	13.40
EXTREME				18.8	14.6	--	--	9.8	114	7.2	83	--	--	15.00	13.20
AVERAGE				18.0	16.5	--	--	8.7	102	7.4	86	--	--	14.55	13.42
44	10	30	63	14.9	11.9	--	--	9.4	98	7.7	86	--	--	13.60	12.30
44	10	31	63	13.7	10.8	--	--	9.2	96	8.4	88	--	--	13.60	12.30
44	11	01	63	13.5	12.2	--	--	8.8	93	8.4	89	--	--	13.50	12.10
44	11	02	63	12.8	10.8	--	--	9.4	93	8.6	86	--	--	12.90	11.50
44	11	03	63	11.6	8.8	--	--	9.8	93	9.0	91	--	--	13.10	11.10
44	11	04	63	11.7	8.9	--	--	9.8	97	9.0	88	--	--	13.00	11.60
44	11	05	63	11.6	10.6	--	--	9.4	93	9.0	91	--	--	12.90	12.00
EXTREME				14.9	8.8	--	--	9.8	98	7.7	86	--	--	13.60	11.10
AVERAGE				12.8	10.5	--	--	9.4	94	8.5	88	--	--	13.22	11.84

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
45	11 06 63	11.4 10.6	-- --	9.2	93	8.7	88	--	--	12.80	11.30	--	--	--	--
45	11 07 63	11.9 11.4	-- --	9.2	94	8.9	92	--	--	12.30	11.30	--	--	--	--
45	11 08 63	12.1 11.5	-- --	9.3	93	8.9	92	--	--	11.60	9.40	--	--	--	--
45	11 09 63	11.9 11.0	-- --	9.3	93	8.9	92	--	--	11.60	8.40	--	--	--	--
45	11 10 63	-- 10.7	-- --	--	--	8.9	--	--	--	--	8.30	--	--	--	--
45	11 11 63	-- --	-- --	--	--	--	--	--	--	--	--	--	--	--	--
45	11 12 63	-- --	-- --	--	--	--	--	--	--	--	--	--	--	--	--
EXTREME		12.1 10.6	-- --	9.3	94	8.7	88	--	--	12.80	8.30	--	--	--	--
AVERAGE		11.8 11.0	-- --	9.2	93	8.8	91	--	--	12.07	9.74	--	--	--	--
46	11 13 63	-- --	-- --	--	--	--	--	--	--	--	--	--	--	--	--
46	11 14 63	-- --	-- --	--	--	--	--	--	--	--	--	--	--	--	--
46	11 15 63	-- --	-- --	--	--	--	--	--	--	--	--	--	--	--	--
46	11 16 63	11.1 8.5	-- --	9.7	97	9.1	90	--	--	14.50	12.30	--	--	--	--
46	11 17 63	11.9 10.0	-- --	9.7	100	9.2	91	--	--	14.30	11.90	--	--	--	--
46	11 18 63	12.1 10.6	-- --	9.7	100	9.2	94	21	8	14.50	12.40	--	--	--	--
46	11 19 63	12.3 11.4	-- --	9.8	102	9.3	95	23	9	14.30	12.20	--	--	--	--
EXTREME		12.3 8.5	-- --	9.8	102	9.1	90	23	8	14.50	11.90	--	--	--	--
AVERAGE		11.8 10.1	-- --	9.7	99	9.2	92	22	8	14.40	12.20	--	--	--	--
47	11 20 63	11.4 10.6	-- --	9.6	98	9.2	93	15	8	15.30	12.40	--	--	--	--
47	11 21 63	11.8 11.2	-- --	9.6	99	9.2	95	15	7	15.30	13.50	--	--	--	--
47	11 22 63	12.2 10.4	-- --	9.4	97	9.1	93	14	7	14.90	13.20	--	--	--	--
47	11 12 63	12.6 11.9	-- --	9.3	96	8.5	89	15	9	14.80	13.40	--	--	--	--
47	11 24 63	12.3 10.1	-- --	8.9	87	8.3	85	29	10	14.20	11.40	--	--	--	--
47	11 25 63	10.5 --	-- --	8.9	88	--	--	19	12	14.20	--	--	--	--	--
47	11 26 63	-- --	-- --	--	--	--	--	--	--	--	--	--	--	--	--
EXTREME		12.6 10.1	-- --	9.6	99	8.3	85	29	7	15.30	11.40	--	--	--	--
AVERAGE		11.8 10.8	-- --	9.2	94	8.8	91	17	8	14.78	12.78	--	--	--	--
48	11 27 63	-- --	-- --	9.5	95	9.3	94	22	10	14.80	12.60	--	--	--	--
48	11 28 63	11.1 9.8	-- --	9.4	96	9.0	92	25	10	14.90	12.60	--	--	--	--
48	11 29 63	11.7 10.7	-- --	9.0	93	8.5	88	55	10	15.50	13.00	--	--	--	--
48	11 30 63	11.2 8.3	-- --	8.7	84	8.3	84	67	17	14.90	11.30	--	--	--	--
48	12 01 63	8.9 7.0	-- --	8.6	79	8.3	75	37	13	13.30	8.90	--	--	--	--
48	12 02 63	8.4 6.2	-- --	8.8	82	8.4	76	41	13	14.10	8.90	--	--	--	--
48	12 03 63	8.3 6.5	-- --	8.8	82	8.5	81	35	12	14.00	10.40	--	--	--	--
EXTREME		11.7 6.2	-- --	9.5	96	8.3	75	67	10	15.50	8.90	--	--	--	--
AVERAGE		9.9 8.0	-- --	8.9	87	8.6	84	40	12	14.50	11.10	--	--	--	--

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE			SURFACE		BOTTOM		MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN
	MO	DA	YR	MAX	MIN	MAX	MIN								
49	12	04	63	7.9	5.8	--	--	10.0	89	8.7	78	24	10	14.30	11.00
49	12	05	63	7.7	6.2	--	--	10.0	93	9.2	84	26	9	14.20	11.90
49	12	06	63	7.5	6.2	--	--	10.1	93	9.7	89	24	10	14.70	11.60
49	12	07	63	7.8	5.7	--	--	10.0	89	9.6	90	14	8	14.70	11.80
49	12	08	63	7.9	6.3	--	--	9.9	93	9.6	90	32	8	15.00	12.80
49	12	09	63	7.7	6.3	--	--	9.8	90	9.7	90	34	11	14.70	12.90
49	12	10	63	6.4	5.4	--	--	10.1	89	9.8	91	37	13	14.10	11.30
EXTREME				7.9	5.4	--	--	10.1	93	8.7	78	37	8	15.00	11.00
AVERAGE				7.5	5.9	--	--	9.9	90	9.4	87	27	9	14.52	11.90
50	12	11	63	6.1	4.3	--	--	10.0	86	9.6	84	23	11	13.90	9.80
50	12	12	63	6.2	4.6	--	--	9.8	84	9.4	83	14	10	14.30	10.50
50	12	13	63	6.3	5.2	--	--	--	--	--	--	13	8	14.50	11.50
50	12	14	63	6.3	4.8	--	--	--	--	--	--	52	7	14.30	13.00
50	12	15	63	5.2	2.7	--	--	--	--	--	--	47	13	14.70	11.60
50	12	16	63	3.8	1.9	--	--	--	--	--	--	42	13	14.50	10.70
50	12	17	63	2.9	.7	--	--	--	--	--	--	21	13	14.30	10.50
EXTREME				6.3	.7	--	--	--	--	--	--	52	7	14.70	9.80
AVERAGE				5.2	3.4	--	--	--	--	--	--	30	10	14.35	11.08
51	12	18	63	2.9	.9	--	--	--	--	--	--	83	12	15.10	12.20
51	12	19	63	1.7	.3	--	--	--	--	--	--	103	18	15.10	12.90
51	12	20	63	.4	.6	--	--	--	--	--	--	60	20	15.00	13.60
EXTREME															
AVERAGE															
2	1	07	64	3.4	2.3	--	--	--	--	--	--	40	11	13.80	10.90
2	1	08	64	2.9	1.3	--	--	--	--	--	--	17	12	14.30	10.50
2	1	09	64	3.7	2.7	--	--	--	--	--	--	27	12	14.90	10.20
2	1	10	64	3.7	2.8	--	--	--	--	--	--	41	13	14.10	8.30
2	1	11	64	2.5	.8	--	--	--	--	--	--	80	20	9.00	3.00
2	1	12	64	1.9	.3	--	--	--	--	--	--	96	23	12.90	4.30
2	1	13	64	.9	.3	--	--	--	--	--	--	68	19	14.10	9.80
2	1	14	64	.0	-1.2	--	--	--	--	--	--	27	10	13.40	11.00
EXTREME				3.7	-1.3	--	--	--	--	--	--	96	10	14.90	3.00
AVERAGE				2.3	1.0	--	--	--	--	--	--	49	15	13.31	8.50

TABLE 1. (cont'd)

				38 30 45 N				76 40 14 W									
				TEMPERATURE		DISSOLVED		OXYGEN		TURBIDITY		SALINITY		TIDE HEIGHT			
				DEG C		PPM				JCU		PPT		FT			
WEEK	DATE	SURFACE	BOTTOM	MAX	MIN	MAX	%	MIN	%	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	MO DA YR	MAX	MIN	MAX	MIN	MAX	SAT		SAT								
3	1 20 64	1.3	.3	--	--	--	--	--	--	26	5	14.20	12.20	--	--		
3	1 21 64	1.9	1.1	--	--	--	--	--	--	210	20	14.20	10.20	--	--		
EXTREME																	
AVERAGE																	
4	1 22 64	2.9	.6	--	--	--	--	--	--	27	15	13.40	9.30	--	--		
4	1 23 64	3.4	1.1	--	--	--	--	--	--	28	14	13.90	8.60	--	--		
4	1 24 64	3.0	1.7	--	--	--	--	--	--	25	15	13.80	9.70	--	--		
4	1 25 64	4.4	3.0	--	--	--	--	--	--	25	9	13.10	10.90	--	--		
4	1 26 64	4.1	3.4	--	--	--	--	--	--	53	16	12.00	9.20	--	--		
4	1 27 64	4.1	2.7	--	--	--	--	--	--	40	16	11.50	6.10	--	--		
4	1 28 64	3.6	2.3	--	--	--	--	--	--	87	16	12.40	7.70	--	--		
EXTREME																	
AVERAGE																	
5	1 29 64	2.7	1.1	--	--	12.7	102	11.5	87	49	18	12.70	6.70	--	--		
5	1 30 64	2.8	1.3	--	--	13.2	108	12.3	85	38	13	13.60	9.10	--	--		
5	1 31 64	2.7	1.3	--	--	13.6	111	12.9	101	31	13	13.00	10.30	--	--		
5	2 01 64	3.3	2.5	--	--	13.1	107	12.3	99	30	12	13.70	10.20	--	--		
5	2 02 64	3.9	2.4	--	--	12.5	102	12.3	100	66	13	13.60	10.20	--	--		
5	2 03 64	2.7	1.7	--	--	13.4	107	11.9	95	44	15	13.10	9.10	--	--		
5	2 04 64	2.7	.7	--	--	13.0	106	11.8	92	35	13	12.60	9.20	--	--		
EXTREME																	
AVERAGE																	
6	2 05 64	3.6	.9	--	--	13.6	107	11.7	92	28	11	12.50	8.50	--	--		
6	2 06 64	3.7	3.0	--	--	13.1	105	12.3	100	33	13	13.80	9.50	--	--		
6	2 07 64	4.6	3.5	--	--	13.1	111	12.6	101	27	13	13.30	10.70	--	--		
6	2 08 64	4.7	3.6	--	--	12.8	109	11.9	100	34	13	11.80	8.80	--	--		
6	2 09 64	4.7	2.7	--	--	13.3	103	11.5	91	19	10	12.20	7.90	--	--		
6	2 10 64	4.8	4.1	--	--	13.6	107	12.1	100	23	11	12.40	7.70	--	--		
6	2 11 64	4.3	1.3	--	--	12.8	108	12.1	98	153	13	11.90	8.60	--	--		
EXTREME																	
AVERAGE																	

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	MO	DA	YR	SURFACE MAX	MIN	BOTTOM MAX	MIN	MAX	SAT	MIN	SAT	MAX	MIN	MAX	MIN
7	2	12	64	2.4	.1	--	--	13.5	110	12.0	92	105	14	12.20	8.60
7	2	13	64	2.5	1.2	--	--	14.1	114	12.7	99	26	11	12.90	9.90
7	2	14	64	3.1	2.2	--	--	14.2	116	12.4	100	39	11	12.00	--
7	2	15	64	2.6	1.2	--	--	14.3	117	11.4	92	27	10	12.30	9.70
7	2	16	64	3.3	2.4	--	--	13.3	103	12.2	98	139	10	12.00	9.00
7	2	17	64	3.9	1.7	--	--	13.9	114	11.9	93	65	13	10.70	7.50
7	2	18	64	2.8	2.5	--	--	13.2	106	12.3	98	42	12	11.20	8.50
EXTREME				3.9	.1	--	--	14.3	117	11.4	92	139	10	12.90	7.50
AVERAGE				2.9	1.6	--	--	13.7	111	12.1	96	63	11	11.90	8.86
8	2	19	64	3.1	2.8	--	--	13.6	101	12.1	97	33	13	11.20	8.60
8	2	20	64	3.4	2.9	--	--	12.5	101	11.9	95	57	13	10.90	7.70
8	2	21	64	3.2	2.6	--	--	12.5	100	11.6	91	47	13	10.10	6.00
8	2	22	64	3.3	2.1	--	--	12.8	102	11.6	89	39	13	9.60	4.90
8	2	23	64	3.8	2.0	--	--	13.5	108	11.6	89	37	12	10.20	6.20
8	2	24	64	--	--	--	--	--	--	--	--	--	--	--	--
8	2	25	64	3.5	--	--	--	--	--	13.7	110	17	--	--	8.50
EXTREME				3.8	2.0	--	--	13.6	108	11.6	89	57	12	11.20	4.90
AVERAGE				3.3	2.4	--	--	12.9	102	12.0	95	38	12	10.40	6.98
9	2	26	64	4.6	2.9	--	--	14.5	120	12.8	102	33	10	11.00	8.70
9	2	27	64	3.5	2.0	--	--	--	--	12.8	--	39	--	11.20	8.30
9	2	28	64	--	--	--	--	--	--	--	--	--	--	--	--
9	2	29	64	--	--	--	--	--	--	--	--	--	--	--	--
9	3	01	64	--	--	--	--	--	--	--	--	--	--	--	--
9	3	02	64	5.1	3.3	--	--	14.7	122	13.6	107	21	12	10.30	9.10
9	3	03	64	4.7	3.6	--	--	14.1	117	12.7	105	29	12	9.90	7.30
EXTREME				5.1	2.0	--	--	14.7	122	12.7	102	39	10	11.20	7.30
AVERAGE				4.4	2.9	--	--	14.4	119	12.9	104	30	11	10.60	8.35
10	3	04	64	5.2	4.2	--	--	12.8	107	11.3	93	17	11	9.00	5.90
10	3	05	64	7.8	5.0	--	--	--	--	--	--	40	13	8.40	--
10	3	06	64	--	--	--	--	--	--	--	--	36	16	--	--
10	3	07	64	8.4	7.4	--	--	13.2	120	11.4	102	20	13	8.80	6.00
10	3	08	64	9.2	7.4	--	--	13.2	122	11.3	102	24	13	9.40	5.50
10	3	09	64	10.2	7.7	--	--	12.1	113	10.3	94	35	11	10.00	5.60
10	3	10	64	12.6	9.4	--	--	11.0	107	9.6	97	87	12	10.10	7.10
EXTREME				12.6	4.2	--	--	13.2	122	9.6	93	87	11	10.10	5.50
AVERAGE				8.9	6.8	--	--	12.4	113	10.7	97	37	12	9.28	6.02

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

WEEK	DATE MO DA YR			TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
				SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
11	3	11	64	12.1	8.7	--	--	--	--	74	13	--	--	--	--
11	3	12	64	--	--	--	--	--	--	47	7	--	--	--	--
11	3	13	64	9.7	7.7	--	--	11.7	111	10.1	92	26	7	10.50	7.60
11	3	14	64	8.7	7.8	--	--	11.2	105	10.3	95	54	9	10.70	8.40
11	3	15	64	9.1	8.4	--	--	10.7	101	10.0	94	83	9	10.40	7.10
11	3	16	64	9.5	7.3	--	--	10.9	104	9.9	91	33	9	10.20	7.10
11	3	17	64	10.0	8.1	--	--	10.6	100	9.9	92	46	9	11.60	6.90
EXTREME				12.1	7.3	--	--	11.7	111	9.9	91	83	7	11.60	6.90
AVERAGE				9.8	8.0	--	--	11.0	104	10.0	92	51	9	10.68	7.42
12	3	18	64	9.2	7.3	--	--	10.5	98	9.8	92	94	15	10.90	7.30
12	3	19	64	7.5	6.1	--	--	11.2	102	10.0	90	43	11	10.50	7.00
12	3	20	64	8.2	6.4	--	--	11.5	105	10.4	92	23	9	11.50	8.20
12	3	21	64	7.6	6.6	--	--	11.0	101	10.5	94	74	9	10.90	8.60
12	3	22	64	7.4	5.5	--	--	11.2	101	10.4	90	93	9	10.50	8.20
12	3	23	64	9.4	6.6	--	--	11.9	109	10.6	94	18	7	11.00	8.20
12	3	24	64	9.7	7.1	--	--	12.6	120	10.0	95	25	9	10.20	7.80
EXTREME				9.7	5.5	--	--	12.6	120	9.8	90	94	7	11.50	7.00
AVERAGE				8.4	6.5	--	--	11.4	105	10.2	92	52	9	10.78	7.90
13	3	25	64	10.6	8.8	--	--	12.4	120	10.5	98	47	9	9.70	7.20
13	3	26	64	12.1	10.1	--	--	11.6	113	10.0	99	81	9	10.00	6.90
13	3	27	64	12.3	10.3	--	--	11.8	115	9.7	93	43	13	9.10	5.50
13	3	28	64	11.7	10.3	--	--	11.0	110	9.7	93	67	12	9.00	5.70
13	3	29	64	11.4	10.4	--	--	10.5	103	9.6	93	56	14	8.90	5.30
13	3	30	64	10.5	8.5	--	--	10.2	99	9.6	90	86	13	9.20	5.90
13	3	31	64	8.7	6.5	--	--	10.8	101	9.7	87	48	13	8.50	5.60
EXTREME				12.3	6.5	--	--	12.4	120	9.6	87	86	9	10.00	5.30
AVERAGE				11.0	9.2	--	--	11.1	108	9.8	93	61	11	9.20	6.01
14	4	01	64	8.5	7.5	--	--	10.6	96	9.9	89	49	13	8.90	6.20
14	4	02	64	7.8	7.0	--	--	10.5	96	9.7	87	28	10	8.90	5.60
14	4	03	64	10.0	7.5	--	--	10.3	94	9.3	87	105	14	8.70	5.50
14	4	04	64	10.2	8.3	--	--	10.7	101	10.0	93	358	40	7.70	3.50
14	4	05	64	11.0	8.0	--	--	10.6	100	9.9	93	257	13	7.90	4.20
14	4	06	64	9.7	9.2	--	--	10.2	96	9.9	93	10	7	8.30	6.60
14	4	07	64	10.3	9.2	--	--	10.2	96	9.7	92	24	13	7.00	5.10
EXTREME				11.0	7.0	--	--	10.7	101	9.3	87	358	7	8.90	3.50
AVERAGE				9.6	8.1	--	--	10.4	97	9.7	90	118	15	8.20	5.24

TABLE 1. (cont'd)

												38 30 45 N		76 40 14 W			
		TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT			
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
15	4 08 64	10.9 9.6	-- --	9.8	94	9.2	88	53	8	7.70	5.10	4.9	3.1				
15	4 09 64	9.9 9.0	-- --	10.1	96	9.3	86	53	6	7.60	3.60	3.9	2.6				
15	4 10 64	11.8 8.5	-- --	10.4	103	9.4	86	35	13	7.40	3.90	4.3	2.5				
15	4 11 64	12.9 9.4	-- --	10.3	103	9.5	94	42	7	7.70	4.60	4.7	2.5				
15	4 12 64	12.5 10.6	-- --	10.3	104	9.5	92	49	5	7.70	4.80	4.7	3.0				
15	4 13 64	12.6 10.5	-- --	10.0	101	9.5	94	50	11	7.60	4.80	5.0	3.2				
15	4 14 64	13.4 12.1	-- --	9.6	99	9.3	94	53	11	6.90	4.50	5.1	3.1				
EXTREME		13.4 8.5	-- --	10.4	104	9.2	86	53	5	7.70	3.60	5.1	2.5				
AVERAGE		12.0 9.9	-- --	10.0	100	9.3	90	47	8	7.51	4.47	4.6	2.8				
16	4 15 64	14.4 12.7	-- --	9.5	98	9.0	92	64	12	6.80	4.10	5.1	2.8				
16	4 16 64	14.8 11.9	-- --	9.8	113	9.0	90	42	7	6.80	4.40	4.7	2.9				
16	4 17 64	15.2 12.7	-- --	9.6	101	9.3	96	44	8	6.90	4.20	4.9	3.1				
16	4 18 64	16.3 13.4	-- --	9.5	102	8.8	104	56	7	7.30	3.70	4.9	3.1				
16	4 19 64	17.7 14.9	-- --	9.4	101	8.6	93	32	5	7.00	3.60	5.2	3.1				
16	4 20 64	16.5 14.7	-- --	9.3	99												
16	4 21 64	14.9 13.4	-- --	9.0	95	8.5	89	51	8	7.80	5.90	5.6	3.8				
EXTREME		17.7 11.9	-- --	9.8	113	8.5	89	64	5	7.80	3.60	5.6	2.8				
AVERAGE		15.6 13.3	-- --	9.4	101	8.8	93	44	7	7.07	4.22	5.1	3.2				
17	4 22 64	14.8 13.1	-- --	9.0	95	8.5	88	37	9	7.60	5.70	6.2	4.4				
17	4 23 64	17.1 13.6	-- --	9.1	99	8.4	87	40	7	7.30	4.90	5.7	3.8				
17	4 24 64	16.4 14.6	-- --	9.1	98	8.3	88	47	7	7.30	4.60	5.8	3.8				
17	4 25 64	15.4 14.1	14.3 12.8	9.4	100	8.5	89	47	10	7.20	4.70	5.3	3.8				
17	4 26 64	15.6 13.6	14.1 13.3	9.5	102	8.7	90	50	10	6.90	4.70	5.7	3.8				
17	4 27 64	15.3 13.9	14.3 13.5	9.6	102	8.8	92	37	9	6.70	4.60	5.6	4.0				
17	4 28 64	16.5 14.6	15.3 13.8	9.5	103	8.5	89	35	9	6.70	4.20	5.8	3.8				
EXTREME		17.1 13.1	15.3 12.8	9.6	103	8.3	87	50	7	7.60	4.20	6.2	3.8				
AVERAGE		15.8 13.9	14.5 13.3	9.3	99	8.5	89	41	8	7.10	4.77	5.7	3.9				
18	4 29 64	15.7 14.2	14.9 13.9	9.2	97	8.5	91	36	8	6.50	4.30	5.6	4.1				
18	4 30 64	14.1 13.5	14.0 13.5	9.2	95	8.6	88	26	6	6.60	4.90	6.4	4.5				
18	5 01 64	13.5 12.8	13.6 12.9	9.0	91	8.5	86	42	7	6.40	4.70	6.0	4.0				
18	5 02 64	13.9 12.1	13.8 12.6	9.4	97	8.6	85	24	6	6.60	4.10	5.6	4.0				
18	5 03 64	13.5 12.8	13.2 12.5	9.7	98	8.9	91	33	6	6.10	4.90	6.0	4.6				
18	5 04 64	16.4 13.1	13.5 12.5	10.3	110	9.0	92	17	5	7.00	4.00	5.5	4.1				
18	5 05 64	17.4 14.6	15.6 13.6	10.2	109	8.9	97	19	5	5.80	4.00	5.3	3.8				
EXTREME		17.4 12.1	15.6 12.5	10.3	110	8.5	85	42	5	7.00	4.00	6.4	3.8				
AVERAGE		14.9 13.3	14.0 13.0	9.5	99	8.7	90	28	6	6.42	4.41	5.7	4.1				

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

		TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	SAT	MIN	SAT	MAX	MIN	MAX	MIN	MAX	MIN
	19	5 06 64	17.5 15.0	15.8 13.9	11.3	127	9.0	95	-- --	6.20	4.40	5.3	3.7
	19	5 07 64	19.3 15.8	17.6 14.0	11.2	127	9.0	96	-- --	6.00	4.80	5.7	3.8
	19	5 08 64	20.2 17.3	18.4 14.8	11.4	131	9.3	103	-- --	6.10	4.30	5.4	3.9
	19	5 09 64	20.6 17.9	19.5 15.4	11.3	133	9.6	109	-- --	6.40	4.50	5.6	3.7
	19	5 10 64	20.4 18.7	18.6 15.3	10.3	118	9.3	107	-- --	6.60	4.70	5.6	3.4
	19	5 11 64	20.0 18.0	19.0 14.7	10.8	126	8.3	94	-- --	7.30	4.90	5.4	3.5
	19	5 12 64	21.8 18.3	19.8 16.2	11.9	144	8.1	93	-- --	7.70	5.80	5.7	3.8
EXTREME			21.8 15.0	19.8 13.9	11.9	144	8.1	93	-- --	7.70	4.30	5.7	3.4
AVERAGE			19.9 17.2	18.3 14.9	11.1	129	8.9	99	-- --	6.61	4.77	5.5	3.6
	20	5 13 64	20.4 18.9	19.7 17.7	10.0	118	8.0	93	-- --	7.50	5.90	5.7	3.7
	20	5 14 64	21.0 19.3	20.2 16.5	10.0	122	7.7	90	-- --	7.50	5.70	5.7	3.0
	20	5 15 64	20.0 17.5	19.9 15.7	9.6	108	7.4	84	-- --	8.30	5.40	4.8	2.9
	20	5 16 64	19.6 16.8	18.2 16.4	9.9	115	7.0	78	-- --	8.20	5.90	5.3	3.2
	20	5 17 64	21.0 17.9	19.2 17.7	10.1	119	7.4	84	-- --	8.00	6.00	5.6	3.6
	20	5 18 64	21.9 19.0	20.1 17.1	9.5	115	7.7	89	-- --	7.40	5.80	5.0	3.1
	20	5 19 64	21.5 19.4	21.1 17.7	8.9	106	7.3	85	-- --	8.20	5.70	5.4	3.1
EXTREME			21.9 16.8	21.1 15.7	10.1	122	7.0	78	-- --	8.30	5.40	5.7	2.9
AVERAGE			20.7 18.4	19.7 16.9	9.7	114	7.5	86	-- --	7.87	5.77	5.3	3.2
	21	5 20 64	23.0 20.6	21.9 18.3	8.4	--	7.3	88	-- --	8.00	5.60	4.9	3.1
	21	5 21 64	22.7 20.5	20.4 18.0	9.1	111	6.5	78	-- --	7.80	6.10	5.0	2.8
	21	5 22 64	22.9 20.0	21.5 19.6	9.3	115	7.1	85	-- --	8.20	6.70	5.5	3.8
	21	5 23 64	24.6 21.4	22.7 19.3	8.9	111	7.1	86	-- --	8.20	6.00	5.4	3.1
	21	5 24 64	25.3 22.4	23.1 19.1	9.3	118	6.4	79	-- --	8.20	6.40	5.0	3.5
	21	5 25 64	23.8 22.5	22.7 18.7	7.7	96	6.2	77	-- --	8.70	6.50	5.2	2.9
	21	5 26 64	22.9 21.7	21.5 18.4	9.9	120	6.0	72	-- --	9.20	6.90	4.8	3.3
EXTREME			25.3 20.0	23.1 18.0	9.9	120	6.0	72	-- --	9.20	5.60	5.5	2.8
AVERAGE			23.6 21.3	21.9 18.7	8.9	111	6.6	80	-- --	8.32	6.31	5.1	3.2
	22	5 27 64	22.3 20.3	21.9 19.7	9.4	116	6.4	77	-- --	9.40	7.80	5.7	3.7
	22	5 28 64	22.0 20.4	21.7 19.5	8.8	106	6.8	81	-- --	9.10	7.70	5.2	3.6
	22	5 29 64	21.3 18.8	20.5 18.7	9.3	100	6.1	72	-- --	9.80	8.00	5.7	3.7
	22	5 30 64	21.4 19.3	20.9 19.3	8.8	106	6.6	79	-- --	9.80	8.40	6.0	3.8
	22	5 31 64	21.4 20.0	21.9 19.7	7.9	96	6.4	76	-- --	9.90	8.60	5.7	3.9
	22	6 01 64	21.1 20.2	20.9 19.9	7.3	88	6.4	77	-- --	9.80	8.40	5.4	3.7
	22	6 02 64	20.6 19.5	20.6 19.4	7.3	--	6.2	--	-- --	10.00	8.30	5.3	3.6
EXTREME			22.3 18.8	21.9 18.7	9.4	116	6.1	72	-- --	10.00	7.70	6.0	3.6
AVERAGE			21.4 19.7	21.2 19.4	8.4	102	6.4	77	-- --	9.68	8.17	5.5	3.7

TABLE 1. (cont'd)

TABLE 1. (cont'd)										38 30 45 N		76 40 14 W						
				TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT		
WEEK	DATE			SURFACE		BOTTOM		MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN	
	MO	DA	YR	MAX	MIN	MAX	MIN											
	23	6	03	64	22.6	19.6	20.9	19.9	7.7	92	6.2	74	--	--	9.40	8.10	5.5	3.7
	23	6	04	64	22.3	21.3	21.3	19.6	8.3	101	6.4	76	--	--	--	--	5.3	3.5
	23	6	05	64	22.4	20.1	20.9	19.7	8.1	--	6.3	--	--	--	--	--	4.6	2.7
	23	6	06	64	22.3	20.6	21.4	20.0	7.7	95	6.6	80	--	--	8.30	6.80	5.2	3.1
	23	6	07	64	22.6	21.5	22.2	20.6	8.3	103	6.9	85	--	--	8.40	7.10	5.3	2.8
	23	6	08	64	23.2	22.4	22.6	21.1	8.5	107	6.7	83	--	--	8.80	7.60	5.4	2.6
	23	6	09	64	25.0	22.1	23.9	21.9	8.3	108	6.3	79	--	--	9.40	8.20	5.7	3.8
EXTREME					25.0	19.6	23.9	19.6	8.5	108	6.2	74	--	--	9.40	6.80	5.7	2.6
AVERAGE					22.9	21.0	21.8	20.4	8.1	101	6.4	79	--	--	8.86	7.56	5.2	3.1
	24	6	10	64	25.6	23.3	22.5	23.4	7.6	99	6.3	81	--	--	9.90	8.20	--	3.8
	24	6	11	64	25.3	24.0	24.4	21.3	8.3	108	5.7	73	--	--	9.60	7.90	--	3.0
	24	6	12	64	25.0	22.9	24.1	21.8	8.5	110	5.7	72	--	--	9.80	7.90	--	3.4
	24	6	13	64	24.8	23.3	23.4	22.2	8.6	110	5.7	73	--	--	10.00	8.50	--	3.4
	24	6	14	64	25.4	23.9	23.9	21.7	7.8	--	5.8	--	--	--	--	--	5.4	3.4
	24	6	15	64	26.3	24.1	26.0	22.2	7.7	--	5.4	--	--	--	--	--	5.5	3.5
	24	6	16	64	25.9	24.6	25.2	22.2	7.1	--	5.7	--	--	--	--	--	5.2	3.1
EXTREME					26.3	22.9	26.0	21.3	8.6	110	5.4	72	--	--	10.00	7.90	5.5	3.0
AVERAGE					25.4	23.7	24.2	22.1	7.9	106	5.7	74	--	--	9.82	8.12	5.3	3.3
	25	6	17	64	24.9	23.2	23.7	22.3	8.0	--	5.2	--	--	--	--	--	4.8	3.0
	25	6	18	64	24.5	23.2	23.4	22.3	6.8	--	4.9	--	--	--	--	--	5.0	3.1
	25	6	19	64	25.3	23.3	24.2	22.7	5.7	--	4.3	--	--	--	--	--	5.0	3.8
	25	6	20	64	27.6	24.6	25.9	23.4	5.3	--	3.6	--	--	--	--	--	5.0	3.1
	25	6	21	64	29.5	25.9	26.5	23.7	--	--	--	--	--	--	--	--	5.1	3.3
	25	6	22	64	28.7	25.3	27.4	23.7	--	--	--	--	--	--	--	--	5.3	3.4
	25	6	23	64	27.5	26.3	26.1	24.1	--	--	--	--	--	--	--	--	5.2	3.7
EXTREME					29.5	23.2	27.4	22.3	8.0	--	3.6	--	--	--	--	--	5.3	3.0
AVERAGE					26.8	24.5	25.3	23.1	6.4	--	4.5	--	--	--	--	--	5.0	3.3
	26	6	24	64	27.5	26.0	25.5	24.7	7.6	--	--	--	--	--	--	--	5.5	3.5
	26	6	25	64	27.6	26.2	26.5	24.0	--	--	4.8	--	--	--	--	--	5.4	2.7
	26	6	26	64	28.2	25.6	26.4	23.9	8.6	--	5.0	--	--	--	--	--	4.8	3.4
	26	6	27	64	28.3	25.8	26.5	24.5	--	--	--	--	--	--	--	--	5.2	3.1
	26	6	28	64	27.7	25.7	26.6	24.4	--	--	--	--	--	--	--	--	5.2	3.1
	26	6	29	64	28.3	25.7	26.0	24.4	--	--	--	--	--	--	--	--	5.4	3.3
	26	6	30	64	29.2	26.1	26.4	24.6	--	--	--	--	--	--	--	--	5.2	3.6
EXTREME					29.2	25.6	26.6	23.9	8.6	--	4.8	--	--	--	--	--	5.5	2.7
AVERAGE					28.1	25.8	26.2	24.3	8.1	--	4.9	--	--	--	--	--	5.2	3.2

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

		TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
27	7 01 64	28.7 26.8	26.8 25.1	--	--	--	--	--	--	--	--	4.8	3.1
27	7 02 64	28.4 26.8	27.4 25.4	7.6	--	3.6	--	--	--	--	--	--	--
27	7 03 64	28.4 26.7	27.3 25.7	7.2	--	4.4	--	--	--	--	--	--	--
27	7 04 64	28.0 26.7	27.3 25.0	6.3	--	4.6	--	--	--	--	--	--	--
27	7 05 64	26.6 25.3	25.9 24.1	6.7	--	4.3	--	--	--	--	--	--	--
27	7 06 64	27.7 24.4	25.3 24.2	7.3	--	4.1	--	--	--	--	--	--	--
27	7 07 64	27.0 25.1	26.1 24.8	7.3	--	4.3	--	--	--	--	--	--	--
EXTREME		28.7 24.4	27.4 24.1	7.6	--	3.6	--	--	--	--	--	4.8	3.1
AVERAGE		27.8 25.9	26.5 24.9	7.0	--	4.2	--	--	--	--	--	4.8	3.1
28	7 08 64	26.1 25.3	25.5 24.6	--	--	--	--	--	--	--	--	--	--
28	7 09 64	25.9 24.6	25.6 24.2	7.2	--	--	--	--	--	--	--	--	--
28	7 10 64	27.2 24.7	25.6 24.2	8.3	--	5.3	--	--	--	--	--	5.6	3.6
28	7 11 64	28.2 25.2	26.1 24.8	8.5	--	5.3	--	--	--	--	--	5.7	3.6
28	7 12 64	26.8 26.0	26.1 25.5	--	--	--	--	--	--	--	--	6.2	3.6
28	7 13 64	26.2 25.7	25.7 25.2	--	--	--	--	--	--	--	--	6.4	4.6
28	7 14 64	27.6 25.6	26.1 25.1	8.4	--	--	--	--	--	--	--	5.8	4.0
EXTREME		28.2 24.6	26.1 24.2	8.5	--	5.3	--	--	--	--	--	6.4	3.6
AVERAGE		26.8 25.3	25.8 24.8	8.1	--	5.3	--	--	--	--	--	5.9	3.8
29	7 15 64	28.7 26.2	26.7 25.5	8.8	120	6.0	80	--	--	10.10	9.10	5.5	3.6
29	7 16 64	29.8 26.9	27.4 25.5	8.6	117	6.1	82	--	--	10.10	9.00	5.1	3.4
29	7 17 64	30.1 27.5	27.8 25.7	8.2	114	6.0	81	--	--	10.30	9.20	5.2	3.6
29	7 18 64	28.7 27.5	27.6 26.1	--	--	--	--	--	--	10.40	9.20	5.0	3.4
29	7 19 64	28.3 27.3	27.5 26.4	--	--	--	--	--	--	10.50	9.10	5.2	3.4
29	7 20 64	29.3 27.5	27.7 26.7	8.7	120	--	--	--	--	10.40	9.00	4.9	3.2
29	7 21 64	29.2 27.7	27.9 26.9	7.8	108	5.7	78	--	--	10.60	9.50	5.5	4.0
EXTREME		30.1 26.2	27.9 25.5	8.8	120	5.7	78	--	--	10.60	9.00	5.5	3.2
AVERAGE		29.1 27.2	27.5 26.1	8.4	115	5.9	80	--	--	10.34	9.15	5.2	3.5
30	7 22 64	28.5 27.9	27.7 27.2	7.3	--	5.4	--	--	--	10.90	--	6.0	3.9
30	7 23 64	29.3 27.6	28.3 27.1	7.8	108	5.4	74	--	--	10.60	9.60	5.5	3.6
30	7 24 64	28.7 27.4	28.1 27.1	6.8	95	5.6	77	--	--	10.60	9.40	5.3	3.5
30	7 25 64	27.4 25.9	27.1 25.8	6.7	88	4.8	64	--	--	10.60	9.50	5.6	3.5
30	7 26 64	26.4 25.2	26.0 25.3	7.6	93	5.1	68	--	--	11.20	10.20	6.5	4.5
30	7 27 64	27.9 25.3	25.9 25.1	8.7	119	5.6	75	--	--	10.80	9.90	6.0	3.7
30	7 28 64	28.0	26.7	--	--	--	--	--	--	10.70	--	--	3.6
EXTREME		29.3 25.2	28.3 25.1	8.7	119	4.8	64	--	--	11.20	9.40	6.5	3.5
AVERAGE		28.0 26.5	27.1 26.2	7.4	100	5.3	71	--	--	10.77	9.72	5.8	3.7

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX	MIN	BOTTOM MAX	MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
31	7 29 64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	7 30 64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	7 31 64	27.8	25.7	26.9	25.8	8.8	109	6.3	85	--	--	10.40	9.80	5.4	3.8
31	8 01 64	26.8	25.8	26.2	25.5	8.1	108	6.6	88	--	--	11.10	10.10	5.8	3.8
31	8 02 64	26.2	25.0	25.5	24.4	8.3	110	6.5	86	--	--	11.10	9.90	5.3	3.6
31	8 03 64	25.7	24.7	25.4	24.7	7.4	97	6.2	82	--	--	10.90	9.80	5.5	3.4
31	8 04 64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EXTREME		27.8	24.7	26.9	24.4	8.8	110	6.2	82	--	--	11.10	9.80	5.8	3.4
AVERAGE		26.6	25.3	26.0	25.1	8.1	106	6.4	85	--	--	10.87	9.90	5.5	3.6
32	8 05 64	27.0		24.3	--	8.5	113	5.7	--	37	15	11.20	10.10	--	3.9
32	8 06 64	26.5	25.0	25.4	24.7	8.3	109	6.7	87	42	16	11.10	9.40	6.0	3.2
32	8 07 64	26.8	25.2	25.6	24.7	7.8	105	6.1	80	35	16	11.00	9.90	5.5	3.7
32	8 08 64	26.8	25.5	25.5	24.9	7.3	97	6.1	80	40	14	11.20	9.90	5.8	3.5
32	8 09 64	26.1	24.9	25.6	24.9	7.4	97	5.6	74	52	14	10.90	9.70	5.1	3.2
32	8 10 64	25.4	24.6	25.3	24.8	6.7	88	5.3	70	33	11	11.10	9.80	5.8	3.3
32	8 11 64	25.7	24.9	24.6	24.2	7.0	92	5.2	68	34	9	11.30	10.10	5.7	4.0
EXTREME		27.0	24.6	25.6	24.2	8.5	113	5.2	68	52	9	11.30	9.40	6.0	3.2
AVERAGE		26.3	25.0	25.1	24.7	7.5	100	5.8	76	39	13	11.11	9.84	5.6	3.5
33	8 12 64	26.3	25.1	25.3	24.5	7.7	102	5.5	72	25	13	11.10	10.10	5.5	4.0
33	8 13 64	25.6	24.1	24.9	24.2	7.3	95	5.8	75	37	13	10.90	9.70	4.4	2.8
33	8 14 64	24.6	23.7	24.5	23.5	7.7	101	5.7	74	21	13	11.30	10.20	4.7	3.2
33	8 15 64	25.1	23.5	24.5	23.3	7.9	103	5.8	74	19	4	11.30	10.50	5.0	3.3
33	8 16 64	24.3	23.5	23.9	23.3	7.2	92	6.3	81	15	4	11.40	10.50	5.2	3.5
33	8 17 64	25.1	23.2	23.7	23.0	7.9	103	6.3	80	--	6	11.30	9.80	5.0	3.4
33	8 18 64	24.9	23.5	24.4	23.5	8.0	--	6.3	80	--	11	11.20	10.30	5.6	3.9
EXTREME		26.3	23.2	25.3	23.0	8.0	103	5.5	72	37	4	11.40	9.70	5.6	2.8
AVERAGE		25.1	23.8	24.4	23.6	7.6	99	5.9	76	23	9	11.21	10.15	5.0	3.4
34	8 19 64	24.8	23.6	23.9	23.3	7.9	102	6.0	78	17	11	11.60	10.20	5.3	3.1
34	8 20 64	24.8	23.1	23.8	23.2	8.4	110	6.1	78	19	10	11.60	10.50	5.3	3.7
34	8 21 64	26.1	23.9	24.4	23.2	8.4	111	6.0	79	19	10	11.60	10.50	5.4	3.6
34	8 22 64	26.2	24.7	25.2	24.0	7.8	104	6.0	79	19	10	11.80	10.90	5.5	3.9
34	8 23 64	27.0	25.5	25.9	24.7	7.3	99	6.0	80	19	3	11.60	10.60	5.5	3.4
34	8 24 64	27.8	26.1	26.2	24.6	7.1	97	5.4	73	22	8	11.60	10.50	5.2	3.4
34	8 25 64	27.2	26.0	26.2	25.1	6.2	84	4.7	63	--	--	12.00	10.60	5.7	3.5
EXTREME		27.8	23.1	26.2	23.2	8.4	111	4.7	63	22	3	12.00	10.20	5.7	3.1
AVERAGE		26.2	24.7	25.0	24.0	7.5	101	5.7	75	19	8	11.68	10.54	5.4	3.5

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

WEEK	DATE			TEMPERATURE				DISSOLVED		OXYGEN		TURBIDITY		SALINITY		TIDE HEIGHT	
				DEG C				PPM				JCU		PPT		FT	
				SURFACE		BOTTOM		MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
MAX	MIN	MAX	MIN														
35	8	26	64	27.7	26.1	26.4	25.5	6.4	85	4.6	62	--	3	11.90	10.90	5.6	4.0
35	8	27	64	27.1	26.1	26.5	25.3	6.4	86	4.5	61	25	4	12.00	10.80	5.5	3.8
35	8	28	64	27.1	25.6	26.0	25.4	6.7	90	4.1	55	21	4	12.20	11.10	5.8	3.8
35	8	29	64	26.8	25.9	26.1	25.5	6.5	88	4.6	61	21	11	12.20	11.20	5.9	4.3
35	8	30	64	27.1	26.1	26.4	25.7	6.4	87	4.5	60	26	12	12.10	11.10	5.7	4.1
35	8	31	64	27.3	26.3	26.7	25.9	6.5	88	4.8	65	30	11	12.20	11.10	5.8	4.1
35	9	01	64	26.9	26.1	26.7	26.2	--	--	--	--	27	13	12.40	11.10	6.1	3.8
EXTREME				27.7	25.6	26.7	25.3	6.7	90	4.1	55	30	3	12.40	10.80	6.1	3.8
AVERAGE				27.1	26.0	26.4	25.6	6.4	87	4.5	60	25	8	12.14	11.04	5.7	3.9
36	9	02	64	26.4	25.1	26.2	25.4	--	--	--	--	27	12	12.60	11.30	5.9	3.8
36	9	03	64	26.5	24.7	26.0	25.1	8.1	113	--	--	26	12	12.80	10.70	6.2	3.9
36	9	04	64	26.7	25.1	26.0	24.8	--	--	--	--	34	14	12.50	11.30	5.8	3.8
36	9	05	64	26.5	25.3	26.0	25.0	8.4	113	6.7	89	41	16	12.40	11.20	5.8	3.4
36	9	06	64	26.2	24.9	25.9	24.8	8.0	107	6.1	81	48	16	12.90	11.30	5.4	3.5
36	9	07	64	25.9	24.6	25.4	24.7	7.3	96	5.6	75	40	15	12.90	11.50	5.7	3.8
36	9	08	64	--	--	--	--	--	--	5.7	75	--	17	--	--	--	--
EXTREME				26.7	24.6	26.2	24.7	8.4	113	5.6	75	48	12	12.90	10.70	6.2	3.4
AVERAGE				26.3	24.9	25.9	24.9	7.9	107	6.0	80	36	14	12.68	11.21	5.8	3.7
37	9	09	64	26.3	24.7	25.5	24.6	7.2	96	6.1	81	28	7	--	11.60	--	4.0
37	9	10	64	26.8	25.3	25.7	25.2	7.0	93	5.6	75	27	7	12.40	11.60	5.5	4.0
37	9	11	64	26.9	25.7	25.4	25.5	7.1	96	5.4	72	14	4	12.60	11.70	5.7	4.2
37	9	12	64	26.5	24.3	26.3	24.7	6.7	88	5.7	76	33	7	14.00	11.50	5.2	3.4
37	9	13	64	24.4	21.9	24.7	22.5	6.6	83	5.7	74	21	9	13.40	11.40	6.3	3.9
37	9	14	64	22.3	21.3	23.1	21.3	8.6	99	6.3	80	23	13	13.40	12.00	6.1	4.7
37	9	15	64	22.3	20.6	22.7	21.1	8.6	107	6.6	83	21	13	13.20	12.10	6.0	4.3
EXTREME				26.9	20.6	26.3	21.1	8.6	107	5.4	72	33	4	14.00	11.40	6.3	3.4
AVERAGE				25.0	23.4	24.7	23.5	7.4	94	5.9	77	23	8	13.16	11.70	5.8	4.0
38	9	16	64	22.8	20.9	22.2	21.2	9.6	121	6.4	77	21	14	13.00	12.10	5.3	3.7
38	9	17	64	22.6	21.3	22.7	21.6	8.7	110	6.6	84	23	11	13.20	12.30	5.6	4.1
38	9	18	64	22.5	22.1	22.5	22.1	8.3	105	6.9	87	29	11	13.00	11.70	5.1	3.7
38	9	19	64	22.8	22.1	22.6	22.3	7.5	96	6.5	83	29	11	13.30	12.10	5.5	4.0
38	9	20	64	22.5	21.7	22.7	22.1	7.3	91	6.4	81	26	12	13.40	12.30	6.6	4.9
38	9	21	64	21.9	21.1	22.1	21.5	7.7	96	6.3	79	34	12	13.40	12.00	6.3	4.3
38	9	22	64	21.6	20.7	21.7	21.0	7.8	96	6.8	85	33	12	13.20	12.00	5.9	4.4
EXTREME				22.8	20.7	22.7	21.0	9.6	121	6.3	77	34	11	13.40	11.70	6.6	3.7
AVERAGE				22.3	21.4	22.3	21.6	8.1	102	6.5	82	27	11	13.21	12.07	5.7	4.1

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT		
WEEK	DATE				SURFACE		BOTTOM		MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
	MO	DA	YR		MAX	MIN	MAX	MIN										
	39	9	23	64	22.3	20.4	21.8	20.7	8.6	109	6.9	85	20	11	13.40	12.00	6.7	4.6
	39	9	24	64	22.1	21.3	22.0	21.4	8.1	101	6.7	84	33	11	13.40	12.30	6.5	4.0
	39	9	25	64	21.5	20.4	21.8	20.8	7.8	95	6.8	84	41	12	13.20	11.50	5.3	3.3
	39	9	26	64	21.2	19.6	21.4	20.3	7.9	96	6.5	79	30	11	13.30	11.60	5.0	3.2
	39	9	27	64	20.7	19.9	20.7	20.3	7.9	96	6.7	82	26	11	13.40	12.10	5.4	3.7
	39	9	28	64	20.6	19.7	20.7	20.1	7.5	90	6.7	83	32	11	13.30	11.60	5.0	3.0
	39	9	29	64	19.7	18.9	20.1	19.3	7.5	88	6.6	80	26	11	13.00	11.70	5.3	3.4
EXTREME					22.3	18.9	22.0	19.3	8.6	109	6.5	79	41	11	13.40	11.50	6.7	3.0
AVERAGE					21.1	20.0	21.2	20.4	7.9	96	6.7	82	29	11	13.28	11.82	5.6	3.6
	40	9	30	64	19.4	18.3	20.4	19.0	7.6	88	6.7	80	29	11	12.70	10.60	5.1	3.3
	40	10	01	64	19.3	17.9	20.5	18.8	7.4	86	6.5	78	17	11	13.00	11.10	5.7	3.6
	40	10	02	64	19.2	18.4	20.3	18.8	7.9	94	6.2	74	19	6	13.00	11.40	5.9	4.3
	40	10	03	64	20.0	18.6	19.7	18.9	8.4	101	6.7	80	30	5	12.70	10.20	6.0	3.4
	40	10	04	64	19.3	18.5	20.1	18.9	8.1	95	6.7	80	27	12	12.70	10.60	5.7	3.9
	40	10	05	64	18.9	16.7	19.7	18.1	7.8	90	6.8	80	27	13	12.00	10.10	5.1	3.1
	40	10	06	64	17.7	15.7	19.4	17.5	8.3	93	6.9	78	22	12	12.50	10.80	5.3	3.5
EXTREME					20.0	15.7	20.5	17.5	8.4	101	6.2	74	30	5	13.00	10.10	6.0	3.1
AVERAGE					19.1	17.7	20.0	18.5	7.9	92	6.6	78	24	10	12.65	10.68	5.5	3.5
	41	10	07	64	17.3	15.7	18.6	16.4	9.0	101	7.6	86	30	12	12.60	10.80	5.4	3.8
	41	10	08	64	17.1	15.0	17.9	16.0	9.4	108	7.6	85	22	11	13.40	11.30	6.0	3.9
	41	10	09	64	17.4	15.5	17.2	16.2	9.7	117	8.4	94	20	3	13.40	12.20	6.2	4.7
	41	10	10	64	16.5	14.6	17.0	15.3	9.1	102	8.4	91	22	5	13.10	11.40	5.3	3.5
	41	10	11	64	14.9	13.6	16.4	14.4	10.3	111	8.5	89	24	12	12.80	10.90	4.2	2.8
	41	10	12	64	15.1	13.3	15.7	14.6	11.1	122	8.8	93	17	12	13.10	11.60	5.1	3.5
	41	10	13	64	15.7	13.7	15.9	14.5	11.0	121	9.5	113	18	12	13.10	10.80	5.2	3.8
EXTREME					17.4	13.3	18.6	14.4	11.1	122	7.6	85	30	3	13.40	10.80	6.2	2.8
AVERAGE					16.2	14.4	16.9	15.3	9.9	111	8.4	93	21	9	13.07	11.28	5.3	3.7
	42	10	14	64	16.1	14.5	16.5	15.3	10.6	130	9.4	102	17	14	13.00	11.00	4.9	3.4
	42	10	15	64	16.2	14.7	16.7	16.1	10.1	128	8.9	98	16	14	13.50	11.40	5.8	4.3
	42	10	16	64	16.3	15.4	16.7	15.9	10.6	130	7.8	90	17	13	15.00	12.70	6.8	4.6
	42	10	17	64	16.4	16.0	16.5	16.2	8.8	98	7.8	86	22	13	14.80	13.10	6.8	5.0
	42	10	18	64	17.4	16.0	17.0	16.1	9.2	106	7.3	83	19	13	14.40	12.70	6.0	4.4
	42	10	19	64	16.9	16.1	16.8	15.6	9.4	108	7.4	84	34	12	14.80	12.80	6.2	3.8
	42	10	20	64	15.7	14.6	16.7	15.2	8.4	91	7.1	80	24	15	14.70	12.40	5.2	3.4
EXTREME					17.4	14.5	17.0	15.2	10.6	130	7.1	80	34	12	15.00	11.00	6.8	3.4
AVERAGE					16.4	15.3	16.7	15.7	9.5	113	7.9	89	21	13	14.31	12.30	5.9	4.1

TABLE 1. (cont'd)

		38 30 45 N						76 40 14 W							
		TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
43	10 21 64	14.9 13.6	16.1 14.3	8.7	97	7.0	75	30	14	15.30	12.30	5.5	3.0		
43	10 22 64	14.4 13.9	14.7 13.9	9.3	103	7.9	86	32	13	14.90	12.80	5.8	3.3		
43	10 23 64	14.0 12.8	14.5 13.4	9.4	101	8.5	91	37	11	14.40	12.80	4.9	3.2		
43	10 24 64	13.5 11.8	14.2 12.9	9.7	102	8.3	87	25	11	14.60	13.00	5.1	3.3		
43	10 25 64	13.6 11.9	14.3 12.8	9.8	105	8.5	88	22	11	14.60	13.20	5.1	3.3		
43	10 26 64	14.3 12.4	14.4 13.1	9.6	104	8.4	89	16	11	14.60	13.10	4.6	3.1		
43	10 27 64	14.9 13.3	14.6 13.6	9.5	104	8.5	91	16	11	15.20	13.00	4.8	3.2		
EXTREME		14.9 11.8	16.1 12.8	9.8	105	7.0	75	37	11	15.30	12.30	5.8	3.0		
AVERAGE		14.2 12.8	14.6 13.4	9.4	102	8.1	86	25	11	14.80	12.88	5.1	3.2		
44	10 28 64	15.3 13.8	14.7 14.1	9.6	107	8.5	93	14	11	14.90	13.10	5.2	3.6		
44	10 29 64	15.3 14.4	14.8 14.4	9.4	104	8.3	92	15	10	15.00	13.70	5.3	3.7		
44	10 30 64	15.3 14.4	15.5 14.6	9.7	108	8.5	94	17	11	15.10	13.70	5.2	3.6		
44	10 31 64	15.0 13.9	15.3 14.7	9.7	108	8.4	92	17	11	15.30	13.90	5.3	3.3		
44	11 01 64	14.9 13.7	15.1 14.3	9.5	104	8.4	92	22	11	15.30	14.10	5.3	3.2		
44	11 02 64	14.9 13.4	14.9 14.3	9.9	110	8.3	91	19	11	15.50	13.90	5.3	3.3		
44	11 03 64	14.5 13.6	14.8 14.1	9.2	101	8.2	89	16	11	15.60	14.10	5.6	3.6		
EXTREME		15.3 13.4	15.5 14.1	9.9	110	8.2	89	22	10	15.60	13.10	5.6	3.2		
AVERAGE		15.0 13.8	15.0 14.3	9.5	106	8.3	91	17	10	15.24	13.78	5.3	3.4		
45	11 04 64	14.5 13.3	14.8 14.0	9.2	100	8.0	87	17	11	15.70	14.40	5.8	3.8		
45	11 05 64	14.6 13.3	14.8 13.8	8.6	94	7.9	86	20	10	15.80	14.60	5.8	3.9		
45	11 06 64	14.5 12.9	14.3 13.2	8.6	--	7.9	86	41	11	--	14.30	5.1	3.0		
45	11 07 64	13.7 12.0	14.0 12.8	8.9	--	7.6	--	15	9	--	--	5.6	3.7		
45	11 08 64	13.7 12.4	13.7 12.9	8.8	--	8.0	--	16	10	--	--	5.6	4.0		
45	11 09 64	13.6 12.5	13.6 12.9	9.2	--	8.1	--	14	11	--	--	5.0	3.6		
45	11 10 64	13.7 12.3	13.8 12.9	9.3	100	8.0	--	17	11	--	--	5.0	3.7		
EXTREME		14.6 12.0	14.8 12.8	9.3	--	7.6	--	41	9	--	--	5.8	3.0		
AVERAGE		14.0 12.6	14.1 13.2	8.9	--	7.9	--	20	10	--	--	5.4	3.6		
46	11 11 64	13.9 12.8	13.7 13.2	9.2	102	8.2	88	19	11	15.50	14.20	5.4	4.1		
46	11 12 64	14.2 13.1	14.0 13.4	9.1	98	8.1	87	27	10	15.60	14.60	5.5	4.3		
46	11 13 64	14.5 13.7	14.1 13.6	8.8	109	8.2	90	19	10	15.50	14.20	5.0	3.7		
46	11 14 64	14.4 13.5	14.3 13.6	9.1	100	8.4	91	37	10	15.40	14.00	4.5	3.3		
46	11 15 64	14.1 13.0	14.1 13.5	8.9	97	8.2	89	14	10	16.00	14.10	5.0	3.3		
46	11 16 64	14.4 13.4	13.9 13.6	8.6	95	7.9	86	15	10	16.10	14.60	5.3	3.8		
46	11 17 64	14.1 13.5	14.1 13.7	9.6	105	8.0	88	25	11	16.00	14.20	5.4	3.4		
EXTREME		14.5 12.8	14.3 13.2	9.6	109	7.9	86	37	10	16.10	14.00	5.5	3.3		
AVERAGE		14.2 13.2	14.0 13.5	9.0	100	8.1	88	22	10	15.72	14.27	5.1	3.7		

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

WEEK	DATE MO DA YR			TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
				SURFACE		BOTTOM		% SAT		MAX MIN		MAX MIN		MAX MIN	
				MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
47	11	18	64	13.6	12.8	14.0	13.4	8.9	97	8.4	91	19	10	16.10	14.60
47	11	19	64	13.5	12.8	13.8	13.1	8.5	91	8.1	88	25	9	16.30	15.20
47	11	20	64	13.4	12.5	13.4	13.0	8.6	92	8.3	90	55	15	16.50	15.00
47	11	21	64	12.6	10.9	12.9	11.3	9.3	97	8.3	87	57	16	15.90	14.70
47	11	22	64	10.9	8.5	11.6	9.8	10.0	96	9.1	97	37	17	15.70	14.40
47	11	23	64	9.9	7.7	10.9	9.0	10.0	97	9.2	91	33	15	15.90	14.20
47	11	24	64	9.7	7.9	10.0	8.0	9.9	97	9.3	90	26	13	15.90	---
EXTREME				13.6	7.7	14.0	8.0	10.0	97	8.1	87	57	9	16.50	14.20
AVERAGE				11.9	10.4	12.3	11.0	9.3	95	8.6	90	36	13	16.04	14.68
48	11	25	64	10.5	9.2	9.6	8.5	9.7	98	9.3	92	29	13	---	---
48	11	26	64	11.1	10.1	10.1	9.5	9.7	99	9.5	96	36	13	---	---
48	11	27	64	11.3	10.3	10.4	9.7	9.9	---	9.4	---	27	13	---	---
48	11	28	64	11.0	9.7	10.3	9.9	9.7	---	9.2	---	20	12	---	---
48	11	29	64	11.1	10.3	10.5	10.0	9.7	---	9.2	---	30	12	---	---
48	11	30	64	10.3	8.5	10.5	8.9	9.7	92	9.4	91	54	13	---	---
48	12	01	64	8.7	5.7	9.7	7.0	10.5	95	9.5	86	73	19	---	---
EXTREME				11.3	5.7	10.5	7.0	10.5	99	9.2	86	73	12	---	---
AVERAGE				10.5	9.1	10.1	9.0	9.8	96	9.3	91	38	13	---	---
49	12	02	64	7.0	4.6	8.0	6.0	10.3	94	9.7	85	41	16	15.40	12.20
49	12	03	64	6.7	6.1	6.7	5.6	10.3	95	10.0	92	41	5	15.40	13.40
49	12	04	64	7.7	6.2	6.7	5.8	10.0	92	9.5	86	25	10	15.40	13.10
49	12	05	64	7.9	7.3	7.5	6.5	9.5	90	9.3	88	24	9	15.00	13.60
49	12	06	64	7.6	6.1	7.9	7.1	9.6	90	9.3	87	33	11	15.60	13.30
49	12	07	64	6.4	4.6	8.2	6.4	9.8	87	9.2	82	40	10	15.50	13.30
49	12	08	64	---	4.4	---	5.5	---	---	9.2	81	21	---	---	---
EXTREME				7.9	4.4	8.2	5.5	10.3	95	9.2	81	41	5	15.60	12.20
AVERAGE				7.2	5.6	7.5	6.1	9.9	91	9.4	85	32	10	15.38	13.15
50	12	09	64	---	---	---	---	---	---	---	---	---	---	---	---
50	12	10	64	---	---	---	---	---	---	---	---	---	---	---	---
50	12	11	64	---	---	---	---	---	---	---	---	---	---	---	---
50	12	12	64	---	---	---	---	---	---	---	---	---	---	---	---
50	12	13	64	7.6	6.9	7.6	7.0	10.1	94	9.6	90	15	10	15.30	13.30
50	12	14	64	7.5	6.8	8.1	7.3	10.3	96	9.8	88	31	11	15.20	12.90
50	12	15	64	6.8	5.4	8.3	7.0	10.8	100	10.0	93	63	11	16.00	12.30
EXTREME				---	---	---	---	---	---	---	---	---	---	---	---
AVERAGE				---	---	---	---	---	---	---	---	---	---	---	---

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT		
WEEK	DATE				SURFACE		BOTTOM		MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
	MO	DA	YR	MAX	MIN	MAX	MIN											
	51	12	16	64	6.2	3.6	8.0	5.9	10.8	94	10.1	92	33	17	16.10	--	5.0	2.8
	51	12	17	64	6.0	4.7	6.8	5.3	10.6	93	10.2	92	67	17	16.10	13.70	5.2	3.2
	51	12	18	64	6.2	3.2	6.1	5.0	10.9	91	10.3	94	127	26	15.90	11.40	5.0	1.6
	51	12	19	64	4.3	2.2	5.9	3.7	11.0	92	10.5	88	36	17	15.50	12.10	4.0	1.9
	51	12	20	64	4.1	3.1	5.1	3.7	10.8	92	10.5	91	47	15	15.60	13.70	4.8	2.9
	51	12	21	64	3.9	2.6	5.4	3.3	10.9	92	10.4	88	35	14	15.90	13.60	4.5	2.5
	51	12	22	64	4.3	2.9	5.4	3.9	10.8	93	10.3	90	26	13	16.10	13.70	5.4	3.2
EXTREME					6.2	2.2	8.0	3.3	11.0	94	10.1	88	127	13	16.10	11.40	5.4	1.6
AVERAGE					5.0	3.1	6.1	4.4	10.8	92	10.3	90	53	17	15.88	13.03	4.8	2.5
	52	12	23	64	4.4	3.4	5.3	4.1	10.6	92	10.3	90	28	13	16.30	14.70	6.2	4.2
	52	12	24	64	4.5	3.9	4.9	4.2	10.5	92	10.3	88	24	12	16.30	15.00	5.9	4.2
	52	12	25	64	6.4	4.5	6.0	4.5	10.5	92	10.2	90	37	13	15.90	14.50	6.2	4.5
	52	12	26	64	7.8	5.9	7.0	5.7	10.5	100	10.1	95	27	13	15.60	14.50	5.6	4.1
	52	12	27	64	8.0	7.3	7.1	6.3	10.4	98	10.1	94	23	11	15.10	13.50	5.4	3.9
	52	12	28	64	7.4	6.6	6.9	6.0	10.6	97	10.0	92	25	14	14.90	11.90	4.9	3.2
	52	12	09	64	6.6	6.2	6.5	6.3	10.4	95	10.0	90	18	12	15.30	11.70	5.3	3.6
	52	12	30	64	7.4	6.1	6.5	6.2	10.4	96	9.9	91	20	12	15.30	12.60	5.6	4.0
	52	12	31	64	7.0	6.4	6.7	6.4	10.8	100	9.9	90	52	12	14.80	11.30	5.1	2.9
EXTREME					8.0	3.4	7.1	4.1	10.8	100	9.9	88	52	11	16.30	11.30	6.2	2.9
AVERAGE					6.6	5.5	6.3	5.5	10.5	95	10.0	91	28	12	15.50	13.30	5.5	3.8
	1	1	01	65	6.5	5.4	6.8	6.3	10.7	93	10.2	92	22	13	14.60	9.70	4.0	2.5
	1	1	02	65	6.2	5.2	6.8	5.7	11.0	97	9.2	84	23	13	15.40	12.60	5.2	3.3
	1	1	03	65	6.1	4.6	6.4	4.9	11.2	98	10.0	90	183	17	15.10	12.40	5.2	2.4
	1	1	04	65	4.7	3.5	5.6	4.4	12.5	108	11.5	99	34	18	15.40	12.40	4.4	2.8
	1	1	05	65	4.8	2.4	5.7	4.4	12.6	108	11.6	98	21	14	15.70	13.00	5.4	3.5
	1	1	06	65	4.9	3.9	5.6	4.7	12.8	111	11.8	104	25	13	15.60	13.70	5.3	3.7
	1	1	07	65	4.9	3.4	5.7	4.6	12.3	106	11.4	97	20	13	15.90	14.10	5.3	3.9
EXTREME					6.5	2.4	6.8	4.4	12.8	111	9.2	84	183	13	15.90	9.70	5.4	2.4
AVERAGE					5.4	4.0	6.0	5.0	11.8	103	10.8	94	46	14	15.38	12.55	4.9	3.1
	2	1	08	65	5.6	4.6	5.4	4.8	12.8	112	11.9	106	27	14	15.80	14.60	5.5	4.0
	2	1	09	65	5.2	5.3	6.1	5.2	12.3	110	11.7	106	30	14	15.30	13.80	5.2	3.5
	2	1	10	65	6.0	4.6	6.2	5.6	11.8	105	11.4	101	34	14	14.70	12.80	5.1	3.1
	2	1	11	65	4.8	3.9	5.9	5.4	12.0	103	11.4	96	21	14	15.20	12.90	5.6	3.4
	2	1	12	65	4.9	3.4	5.8	4.8	12.2	104	11.6	99	21	13	14.80	12.90	6.0	4.4
	2	1	13	65	4.7	3.4	5.6	4.9	12.1	103	11.6	96	19	12	14.90	12.90	5.6	3.9
	2	1	14	65	4.6	3.0	5.6	4.6	12.3	105	11.7	99	28	12	14.70	12.00	5.2	2.8
EXTREME					6.0	3.0	6.2	4.6	12.8	112	11.4	96	34	12	15.80	12.00	6.0	2.8
AVERAGE					5.1	4.0	5.8	5.0	12.2	106	11.6	100	25	13	15.05	13.12	5.4	3.5

TABLE 1. (cont'd)

TABLE 1. (cont'd)											38 30 45 N		76 40 14 W				
				TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
DATE				SURFACE		BOTTOM											
WEEK	MO	DA	YR	MAX	MIN	MAX	MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
3	1	15	65	3.0	1.5	5.4	3.2	12.6	100	11.5	92	22	14	14.80	10.50	4.7	2.6
3	1	16	65	2.6	.9	4.9	2.1	12.8	101	11.9	95	56	13	15.20	12.40	5.4	3.5
3	1	17	65	2.0	-.5	3.4	1.2	12.5	97	11.8	95	62	17	15.20	---	5.5	3.4
3	1	18	65	1.2	-.2	2.6	1.1	12.6	99	12.1	95	36	13	15.20	14.50	6.3	3.8
3	1	19	65	.7	-.4	2.0	.2	12.7	98	12.1	94	38	15	14.80	---	5.4	3.0
3	1	20	65	1.1	.4	1.7	.3	12.9	102	12.1	94	28	15	14.80	13.90	5.1	3.0
3	1	21	65	1.4	-.5	1.4	.4	12.6	101	11.9	93	25	13	14.20	12.30	4.2	2.4
EXTREME				3.0	-.5	5.4	.2	12.9	102	11.5	92	62	13	15.20	10.50	6.3	2.4
AVERAGE				1.7	.1	3.0	1.2	12.6	99	11.9	94	38	14	14.88	12.72	5.2	3.1
4	1	22	65	2.3	-.1	1.7	.9	12.6	101	11.7	91	25	14	14.10	12.00	4.5	2.8
4	1	23	65	2.5	1.4	2.3	1.6	12.3	99	11.8	92	21	13	14.50	11.90	4.6	2.9
4	1	24	65	2.4	2.0	2.4	2.2	---	---	---	---	22	12	14.70	11.50	5.9	3.2
4	1	25	65	2.9	1.8	2.8	2.4	---	---	---	---	15	12	14.60	12.60	6.3	4.8
4	1	26	65	3.7	1.9	3.3	2.6	---	---	---	---	18	12	14.00	12.50	5.9	4.2
4	1	27	65	3.6	2.7	3.6	2.8	---	---	---	---	25	13	14.10	12.70	5.7	3.8
4	1	28	65	2.9	1.5	3.3	2.9	---	---	---	---	24	14	13.90	10.40	5.0	3.4
EXTREME				3.7	-.1	3.6	.9	---	---	---	91	25	12	14.70	10.40	6.3	2.8
AVERAGE				2.9	1.6	2.7	2.2	---	---	---	91	21	12	14.27	11.94	5.4	3.5
5	1	29	65	2.8	1.8	3.2	2.9	.0	---	---	---	27	15	13.90	9.00	5.0	3.1
5	1	30	65	1.9	.2	3.2	2.5	---	---	---	---	18	13	13.60	10.20	5.0	3.4
5	1	31	65	1.4	-.7	3.2	2.4	---	---	---	---	15	12	14.30	---	5.1	3.7
5	2	01	65	1.2	-.3	2.9	1.3	---	---	---	---	14	11	14.60	12.10	5.8	3.9
5	2	02	65	1.2	.1	1.8	1.2	---	---	---	---	46	12	14.40	11.90	5.8	3.1
5	2	03	65	1.1	-.7	1.9	1.1	---	---	---	---	37	12	14.40	---	4.7	3.1
5	2	04	65	1.9	-.6	1.7	1.0	---	---	---	---	22	13	14.20	11.60	4.3	2.5
EXTREME				2.8	-.7	3.2	1.0	---	---	---	---	46	11	14.60	9.00	5.8	2.5
AVERAGE				1.6	-.0	2.5	1.7	.0	---	---	---	25	12	14.20	10.96	5.1	3.2
6	2	05	65	.8	-.5	1.6	.8	13.7	107	12.9	101	17	12	14.30	11.70	4.7	2.9
6	2	06	65	2.2	.1	1.8	.9	12.1	102	12.0	96	20	12	14.40	12.30	5.0	3.3
6	2	07	65	3.5	1.1	2.9	1.6	12.6	100	11.7	97	19	6	14.00	12.00	5.8	3.1
6	2	08	65	5.5	2.7	4.1	2.6	12.6	109	11.7	98	15	5	13.60	11.80	6.0	4.1
6	2	09	65	4.8	3.5	1.5	2.4	13.7	114	11.8	101	19	6	13.00	9.70	5.1	3.6
6	2	10	65	4.9	4.0	3.5	2.4	13.1	111	12.5	105	18	14	12.70	8.80	5.4	3.7
6	2	11	65	5.6	3.8	3.5	2.4	13.7	118	12.5	107	20	14	13.00	8.80	5.5	3.8
EXTREME				5.6	-.5	4.1	.8	13.7	118	11.7	96	20	5	14.40	8.80	6.0	2.9
AVERAGE				3.9	2.1	2.7	1.8	13.0	108	12.1	100	18	9	13.57	10.72	5.3	3.5

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

WEEK	DATE MO DA YR			TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
				SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
7	2	12	65	6.1	4.4	4.6	2.5	13.4	118	12.7	110	22	13	12.80	9.60
7	2	13	65	6.1	4.9	5.9	3.2	13.1	114	12.2	106	34	13	12.40	9.10
7	2	14	65	4.9	3.4	4.2	3.2	13.4	114	12.1	103	27	15	13.90	9.40
7	2	15	65	4.5	2.9	4.2	3.4	13.3	120	12.2	101	24	14	13.10	10.10
7	2	16	65	4.4	2.9	4.4	3.5	13.3	112	12.7	104	91	13	13.10	11.00
7	2	17	65	5.2	3.4	4.8	3.7	13.7	118	12.7	108	38	18	12.90	10.10
7	2	18	65	5.7	3.8	5.0	3.9	13.8	116	12.8	111	42	19	13.10	10.40
EXTREME				6.1	2.9	5.9	2.5	13.8	120	12.1	101	91	13	13.90	9.10
AVERAGE				5.2	3.6	4.7	3.3	13.4	116	12.4	106	39	15	13.04	9.95
8	2	19	65	5.7	3.4	5.6	4.1	13.5	117	11.8	98	260	19	12.60	9.90
8	2	20	65	4.6	1.6	4.5	3.3	12.6	104	11.7	94	80	26	12.20	10.00
8	2	21	65	4.0	2.7	3.5	2.9	12.8	108	12.2	101	43	20	12.80	11.00
8	2	22	65	3.6	2.3	3.9	3.1	12.4	102	12.0	98	97	26	12.80	10.50
8	2	23	65	3.4	1.7	3.3	2.9	12.9	105	11.9	94	35	22	13.00	9.10
8	2	24	65	3.6	1.9	3.5	2.9	13.1	107	12.2	97	25	21	12.70	8.70
8	2	25	65	4.5	3.4	4.6	3.1	12.8	106	11.8	101	61	21	12.70	10.20
EXTREME				5.7	1.6	5.6	2.9	13.5	117	11.7	94	260	19	13.00	8.70
AVERAGE				4.2	2.4	4.1	3.1	12.8	107	11.9	97	85	22	12.68	9.91
9	2	26	65	4.3	3.3	4.6	3.7	12.2	103	11.3	95	59	31	12.80	9.50
9	2	27	65	4.0	2.0	3.8	3.4	12.2	102	11.3	90	60	24	10.90	8.20
9	2	28	65	6.4	2.6	4.3	3.1	13.5	117	11.7	96	23	13	12.10	8.70
9	3	01	65	6.1	4.0	4.5	3.1	13.8	120	12.6	106	21	12	12.90	9.20
9	3	02	65	5.7	3.9	5.2	3.5	13.7	119	12.8	108	24	11	12.50	10.30
9	3	03	65	5.8	4.6	5.0	3.6	15.0	133	13.5	116	27	11	12.60	11.10
9	3	04	65	6.3	4.9	5.5	3.7	14.9	133	13.6	118	26	12	12.70	11.00
EXTREME				6.4	2.0	5.5	3.1	15.0	133	11.3	90	60	11	12.90	8.20
AVERAGE				5.5	3.6	4.7	3.4	13.6	118	12.4	104	34	16	12.35	9.71
10	3	05	65	6.3	5.0	6.1	5.0	14.4	127	12.7	113	37	16	13.20	11.00
10	3	06	65	6.6	5.0	6.0	4.6	13.5	120	12.3	108	34	16	12.20	9.30
10	3	09	65	6.5	4.7	5.3	4.3	13.1	116	12.0	105	31	14	12.00	7.40
10	3	08	65	6.8	5.3	5.1	4.4	12.8	113	11.4	98	31	14	10.70	5.70
10	3	09	65	--	5.8	--	--	--	--	11.2	98	--	15	10.20	7.20
10	3	10	65	--	--	--	--	--	--	--	--	--	--	--	--
10	3	11	65	--	--	--	--	--	--	--	--	--	--	--	--
EXTREME				6.8	4.7	6.1	4.3	14.4	127	11.2	98	37	14	13.20	5.70
AVERAGE				6.5	5.1	5.6	4.5	13.4	119	11.9	104	33	15	11.66	8.12

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE			SURFACE		BOTTOM		MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN
	MO	DA	YR	MAX	MIN	MAX	MIN								
11	3	12	65	--	--	--	--	--	--	--	--	--	--	--	--
11	3	13	65	--	--	--	--	--	--	--	--	--	--	--	--
11	3	14	65	--	--	--	--	--	--	--	--	--	--	--	--
11	3	15	65	7.0	--	--	--	12.6	113	--	--	46	21	11.50	9.40
11	3	16	65	7.5	4.4	6.8	5.6	12.5	114	11.4	99	33	17	11.70	9.70
11	3	17	65	7.0	6.0	6.7	5.8	12.3	109	11.4	101	31	15	11.60	9.70
11	3	18	65	6.9	5.5	6.3	5.5	12.8	115	11.3	100	42	14	11.80	10.00
EXTREME				7.5	4.4	6.8	5.5	12.8	115	--	--	46	14	11.80	9.40
AVERAGE				7.1	5.3	6.6	5.6	12.5	112	--	--	38	16	11.65	9.70
12	3	19	65	7.4	6.0	6.8	5.7	12.6	115	11.5	102	29	14	11.50	9.80
12	3	20	65	7.2	5.3	6.8	5.7	11.9	107	11.3	98	41	13	11.50	8.40
12	3	21	65	5.6	3.7	5.9	4.9	12.5	108	11.2	93	33	14	10.90	8.50
12	3	22	65	5.9	4.1	5.7	4.8	12.5	109	11.7	98	29	13	11.30	8.40
12	3	23	65	7.2	5.4	6.5	5.4	12.1	106	11.5	104	34	16	9.80	7.60
12	3	24	65	8.4	7.0	6.7	5.8	12.8	116	11.0	99	23	13	10.10	6.80
12	3	25	65	7.8	6.7	6.7	6.1	12.5	112	11.2	101	17	13	10.00	7.00
EXTREME				8.4	3.7	6.8	4.8	12.8	116	11.0	93	41	13	11.50	6.80
AVERAGE				7.0	5.4	6.4	5.4	12.4	110	11.3	99	29	13	10.72	8.07
13	3	26	65	8.2	6.4	6.5	6.0	12.7	114	10.8	96	20	13	11.00	7.10
13	3	27	65	8.6	6.8	7.1	5.4	11.9	109	10.8	98	52	13	9.60	6.80
13	3	28	65	9.4	6.7	8.2	5.3	12.9	119	10.6	95	26	14	11.50	5.80
13	3	29	65	10.3	8.2	8.8	6.7	12.9	123	10.7	99	23	13	10.10	7.30
13	3	30	65	9.8	8.7	8.5	6.6	12.2	116	10.5	98	30	13	10.50	6.80
13	3	31	65	9.4	7.6	7.4	6.3	12.7	120	10.3	94	24	14	11.50	7.40
13	4	01	65	9.3	7.4	8.6	6.7	13.0	123	10.8	99	27	14	11.00	7.80
EXTREME				10.3	6.4	8.8	5.3	13.0	123	10.3	94	52	13	11.50	5.80
AVERAGE				9.2	7.4	7.8	6.1	12.6	117	10.6	97	28	13	10.74	7.00
14	4	02	65	9.0	7.9	8.7	7.9	11.4	107	10.5	98	37	15	11.40	8.50
14	4	03	65	8.9	7.0	8.2	7.2	12.3	116	10.3	93	31	15	11.30	7.70
14	4	04	65	9.8	7.2	8.5	7.3	13.3	127	10.8	98	26	13	11.50	8.40
14	4	05	65	10.9	7.5	9.3	7.6	14.4	143	11.6	106	23	13	11.50	10.90
14	4	06	65	10.7	9.2	9.7	8.3	13.7	134	11.5	111	23	13	11.50	9.10
14	4	07	65	10.5	9.2	9.8	8.3	13.3	129	11.2	108	20	13	11.20	8.70
14	4	08	65	11.6	9.4	10.4	8.4	12.9	129	11.1	106	21	12	10.70	8.30
EXTREME				11.6	7.0	10.4	7.2	14.4	143	10.3	93	37	12	11.50	7.70
AVERAGE				10.2	8.2	9.2	7.8	13.0	126	11.0	102	25	13	11.30	8.80

TABLE 1. (cont'd)

												38 30 45 N		76 40 14 W			
		TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT			
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
15	4 09 65	12.3	10.4	10.7	8.5	11.7	108	10.2	99	21	13	10.60	7.60	6.0	4.0		
15	4 10 65	12.9	9.9	9.5	7.9	12.2	113	9.7	92	24	13	11.00	7.30	5.5	3.8		
15	4 11 65	11.7	10.2	10.7	8.2	11.7	111	10.1	95	21	12	11.20	8.00	6.3	4.0		
15	4 12 65	13.5	10.6	12.5	9.5	10.5	105	9.6	92	32	12	10.90	9.20	6.5	4.5		
15	4 13 65	12.7	11.2	12.2	10.4	9.8	97	8.8	82	86	13	10.80	7.60	6.1	3.2		
15	4 14 65	12.8	10.4	11.6	9.7	10.4	100	8.8	82	34	15	10.40	7.30	5.2	3.0		
15	4 15 65	11.4	10.8	10.8	10.1	10.2	102	9.0	87	25	13	11.00	8.90	6.5	4.3		
EXTREME		13.5	9.9	12.5	7.9	12.2	113	8.8	82	86	12	11.20	7.30	6.5	3.0		
AVERAGE		12.4	10.5	11.1	9.1	10.9	105	9.4	89	34	13	10.84	7.98	6.0	3.8		
16	4 16 65	12.5	10.7	11.8	10.3	10.1	100	8.6	81	55	15	11.00	8.30	7.2	3.5		
16	4 17 65	13.5	11.1	11.9	10.4	10.3	102	8.4	79	49	15	10.40	8.30	5.9	3.8		
16	4 18 65	14.1	11.8	12.8	11.1	9.4	93	8.0	76	73	15	10.50	8.30	6.1	3.7		
16	4 19 65	13.7	12.2	12.8	11.4	8.7	85	8.1	76	50	17	10.00	8.20	5.6	3.8		
16	4 20 65	12.8	11.6	12.0	11.1	8.4	83	7.9	76	35	16	10.50	8.50	6.0	4.0		
16	4 21 65	14.4	10.9	12.8	10.9	8.4	82	7.7	74	30	17	10.00	8.20	5.7	3.9		
16	4 22 65	16.5	12.8	13.6	11.8	8.0	79	7.6	72	35	16	9.90	7.80	5.7	3.7		
EXTREME		16.5	10.7	13.6	10.3	10.3	102	7.6	72	73	15	11.00	7.80	7.2	3.5		
AVERAGE		13.9	11.5	12.5	11.0	9.0	89	8.0	76	46	15	10.32	8.22	6.0	3.7		
17	4 23 65	16.2	14.0	14.1	11.7	8.3	81	7.6	72	29	16	9.70	7.60	5.2	3.3		
17	4 24 65	15.1	13.2	13.8	11.5	8.8	87	7.5	71	29	16	10.20	7.60	5.5	3.8		
17	4 25 65	13.4	12.4	13.1	12.7	8.4	83	7.7	73	27	16	10.20	8.40	5.6	4.2		
17	4 26 65	14.2	12.1	13.2	11.8	8.3	81	7.7	74	26	16	9.70	8.10	5.7	3.9		
17	4 27 65	14.5	13.4	13.3	11.5	8.4	80	7.8	74	19	8	9.60	7.00	5.7	3.5		
17	4 28 65	14.3	13.0	12.5	11.4	9.2	88	7.8	74	19	7	10.10	7.30	5.4	3.7		
17	4 29 65	14.6	12.9	13.4	11.4	9.3	92	7.7	73	29	4	10.10	7.70	5.5	3.4		
EXTREME		16.2	12.1	14.1	11.4	9.3	92	7.5	71	29	4	10.20	7.00	5.7	3.3		
AVERAGE		14.6	13.0	13.3	11.7	8.6	84	7.6	73	25	11	9.94	7.67	5.5	3.6		
18	4 30 65	15.6	12.8	14.3	11.7	9.7	103	8.0	83	37	--	10.10	7.60	5.4	3.2		
18	5 01 65	16.0	13.8	15.1	12.2	11.1	122	7.9	85	44	19	10.00	7.90	5.4	3.3		
18	5 02 65	16.9	14.5	15.5	13.6	11.3	127	8.2	89	59	17	10.20	8.20	5.7	3.5		
18	5 03 65	18.7	15.3	17.7	14.1	11.5	134	8.3	92	39	18	9.40	8.20	5.6	3.6		
18	5 04 65	18.7	16.5	18.8	15.0	10.8	126	8.8	109	33	15	9.40	8.10	5.6	3.6		
18	5 05 65	19.9	17.4	19.4	15.8	9.4	108	8.0	93	27	9	9.60	8.20	5.8	3.6		
18	5 06 65	20.0	17.5	18.6	16.9	9.6	113	7.9	99	15	9	9.50	8.60	6.0	4.0		
EXTREME		20.0	12.8	19.4	11.7	11.5	134	7.9	83	59	9	10.20	7.60	6.0	3.2		
AVERAGE		17.9	15.4	17.0	14.1	10.4	119	8.1	92	36	14	9.74	8.11	5.6	3.5		

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

		TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
19	5 07 65	19.7 17.7	19.1 17.6	8.7	104	7.8	89	37	12	9.40	8.30	5.7	3.8
19	5 08 65	18.8 17.2	18.5 17.2	8.8	101	7.7	89	35	17	9.60	8.50	5.7	3.8
19	5 09 65	20.5 17.5	19.2 16.8	10.1	120	7.6	86	32	18	9.50	8.10	5.3	3.5
19	5 10 65	22.2 18.4	21.9 17.1	10.6	129	8.3	97	28	7	9.70	7.60	5.6	5.6
19	5 11 65	23.4 19.7	21.7 17.1	10.1	125	8.4	98	27	10	9.10	7.20	5.3	3.2
19	5 12 65	21.9 19.7	20.8 16.8	--	--	--	--	--	--	9.10	7.90	5.3	3.4
19	5 13 65	21.0 18.6	20.1 16.5	9.7	115	8.5	100	30	3	10.30	8.40	5.6	3.6
EXTREME		23.4 17.2	21.9 16.5	10.6	129	7.6	86	37	3	10.30	7.20	5.7	3.2
AVERAGE		21.0 18.4	20.1 17.0	9.6	115	8.0	93	31	11	9.52	8.00	5.5	3.8
20	5 14 65	20.6 18.2	19.6 16.8	11.5	137	7.9	93	37	13	9.70	9.00	5.5	3.6
20	5 15 65	20.7 18.1	20.0 18.1	10.8	129	8.7	102	39	13	9.90	9.10	5.9	3.9
20	5 16 65	22.0 19.0	21.2 18.9	10.2	124	8.7	105	48	14	9.70	8.10	6.0	3.8
20	5 17 65	22.7 20.2	22.2 19.6	8.9	--	7.9	--	33	12	--	--	5.8	3.7
20	5 18 65	23.2 20.5	22.1 18.9	8.9	--	7.7	--	22	11	--	--	5.5	3.6
20	5 19 65	23.6 20.4	22.1 19.0	9.8	--	7.5	--	16	12	--	--	5.7	3.6
20	5 20 65	23.5 21.2	22.6 20.3	9.4	--	7.7	--	16	12	--	--	5.8	4.0
EXTREME		23.6 18.1	22.6 16.8	11.5	--	7.5	--	48	11	--	--	6.0	3.6
AVERAGE		22.3 19.6	21.4 18.8	9.9	--	8.0	--	30	12	--	--	5.7	3.7
21	5 21 65	23.2 21.3	22.4 20.1	8.6	--	7.5	--	14	11	--	--	5.2	3.8
21	5 22 65	23.7 20.9	22.5 20.5	8.9	--	7.3	--	16	11	--	--	5.4	3.9
21	5 23 65	25.9 22.2	24.0 21.0	8.2	--	7.3	--	22	10	--	--	5.3	3.4
21	5 24 65	24.7 22.0	23.4 20.3	8.8	--	7.3	--	21	11	--	--	5.2	3.4
21	5 25 65	24.3 21.7	23.3 20.8	9.6	--	7.3	--	22	13	--	--	5.6	4.0
21	5 26 65	26.0 22.7	24.4 20.9	9.0	--	7.4	--	28	13	--	--	5.4	3.6
21	5 27 65	26.4 23.6	25.2 20.5	9.0	--	7.1	--	46	15	--	--	5.8	3.7
EXTREME		26.4 20.9	25.2 20.1	9.6	--	7.1	--	46	10	--	--	5.8	3.4
AVERAGE		24.8 22.0	23.6 20.5	8.8	--	7.3	--	24	12	--	--	5.4	3.6
22	5 28 65	27.3 23.5	26.0 21.5	8.6	--	6.8	--	39	18	--	--	5.9	3.7
22	5 29 65	26.0 23.1	24.7 20.3	8.3	--	6.6	--	50	21	--	--	5.6	3.2
22	5 30 65	23.7 21.6	22.8 20.2	8.9	--	6.5	--	50	20	--	--	5.6	3.5
22	5 31 65	23.7 21.4	22.7 20.8	9.3	--	6.5	--	41	14	--	--	5.7	3.7
22	6 01 65	25.0 21.7	23.8 21.1	11.0	143	7.0	86	45	13	9.60	8.90	5.7	3.5
22	6 02 65	25.1 22.6	24.8 21.9	8.6	91	7.2	92	57	13	9.70	8.40	5.6	3.5
22	6 03 65	25.2 22.8	24.8 21.3	8.2	103	6.6	83	50	13	9.50	7.60	5.7	3.4
EXTREME		27.3 21.4	26.0 20.2	11.0	143	6.5	83	57	13	--	--	5.9	3.2
AVERAGE		25.1 22.3	24.2 21.0	8.9	112	6.7	87	47	16	--	--	5.6	3.5

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

		TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
23	6 04 65	23.8 21.4	22.9 21.3	8.0	99	6.2	77	21	12	9.70	7.70	5.9	3.5
23	6 05 65	24.5 21.7	23.0 21.3	8.5	106	6.3	78	27	13	9.50	8.50	5.7	3.6
23	6 06 65	24.6 22.2	23.6 21.7	8.1	104	6.5	80	33	13	9.50	8.50	5.4	3.4
23	6 07 65	25.8 23.0	24.4 22.3	8.1	105	6.5	82	35	12	9.40	8.50	5.6	3.7
23	6 08 65	26.6 24.4	25.7 22.9	7.7	99	6.4	83	32	12	9.30	8.00	5.5	3.6
23	6 09 65	26.3 24.7	25.6 23.8	7.0	91	5.8	75	42	13	9.30	8.00	5.5	3.6
23	6 10 65	27.5 24.7	26.5 23.3	7.5	100	5.8	78	36	13	9.50	7.70	5.5	3.3
EXTREME		27.5 21.4	26.5 21.3	8.5	106	5.8	75	42	12	9.70	7.70	5.9	3.3
AVERAGE		25.5 23.1	24.5 22.3	7.8	100	6.2	79	32	12	9.45	8.12	5.5	3.5
24	6 11 65	27.3 25.2	26.1 22.7	7.9	104	5.5	63	17	14	9.20	7.70	5.4	3.5
24	6 12 65	27.4 25.3	26.0 23.5	8.6	115	5.5	63	24	13	9.40	8.20	5.9	3.9
24	6 13 65	26.4 25.3	25.6 23.0	6.9	91	--	--	23	12	9.40	8.30	5.9	3.4
24	6 14 65	25.7 23.9	25.2 22.9	8.0	104	5.1	65	17	12	9.80	8.60	5.9	3.9
24	6 15 65	24.7 22.3	24.5 22.7	6.5	83	5.2	66	17	10	10.00	9.50	6.2	4.7
24	6 16 65	22.6 20.5	22.7 20.7	7.4	89	5.5	69	18	13	10.10	9.00	6.3	4.2
24	6 17 65	20.9 19.8	21.2 20.0	8.2	99	6.3	76	25	11	9.90	9.10	6.0	4.4
EXTREME		27.4 19.8	26.1 20.0	8.6	115	5.1	63	25	10	10.10	7.70	6.3	3.4
AVERAGE		25.0 23.1	24.4 22.2	7.6	97	5.5	67	20	12	9.68	8.62	5.9	4.0
25	6 18 65	21.0 19.7	20.8 20.0	7.9	94	6.4	76	23	13	9.80	8.70	6.0	3.5
25	6 19 65	21.6 19.8	20.9 20.1	8.6	105	6.9	82	19	12	9.50	8.60	5.2	3.5
25	6 20 65	23.7 20.6	21.5 20.5	9.4	118	7.0	84	28	11	9.50	8.60	5.5	3.5
25	6 21 65	24.6 21.6	23.2 20.8	8.6	109	7.5	93	15	12	--	--	5.9	4.1
25	6 22 65	-- 22.9	25.1 21.5	8.8	--	6.9	--	--	--	--	--	5.6	3.6
25	6 23 65	27.7	25.7 22.2	--	--	--	--	--	--	--	--	5.6	3.7
25	6 24 65	27.0 24.9	25.9 22.3	7.9	109	6.3	81	36	12	10.90	9.70	5.6	3.9
EXTREME		27.7 19.7	25.9 20.0	9.4	118	6.3	76	36	11	10.90	8.60	6.0	3.5
AVERAGE		24.2 21.5	23.3 21.0	8.5	107	6.8	83	24	12	9.92	8.90	5.6	3.6
26	6 25 65	26.6 24.3	25.2 22.5	8.6	113	6.0	79	--	--	11.00	9.50	5.5	3.4
26	6 26 65	26.3 23.9	25.4 22.4	9.1	118	6.3	81	--	--	11.20	10.10	5.6	3.4
26	6 27 65	26.7 24.1	25.6 23.6	9.0	120	6.5	86	--	--	11.30	10.50	5.6	3.5
26	6 28 65	27.5 24.3	26.5 23.9	8.4	114	6.6	87	28	11	10.90	9.70	5.5	3.6
26	6 29 65	28.2 25.2	27.4 24.1	8.2	111	6.3	83	28	13	11.20	9.50	5.7	3.1
26	6 30 65	27.9 25.6	27.1 23.9	7.8	104	5.9	80	41	13	11.10	10.00	5.5	3.4
26	7 01 65	27.6 24.8	26.7 24.2	8.8	--	5.5	72	39	13	--	--	6.0	3.6
EXTREME		28.2 23.9	27.4 22.4	9.1	120	5.5	72	41	11	11.30	9.50	6.0	3.1
AVERAGE		27.2 24.6	26.2 23.5	8.5	113	6.1	81	34	12	11.11	9.88	5.6	3.4

TABLE 1. (cont'd)

						38 30 45 N				76 40 14 W					
		TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
27	7 02 65	26.2 24.6	26.0 24.6	--	--	--	--	--	--	--	--	--	--	5.9 3.6	
27	7 03 65	-- --	26.0 24.5	--	--	--	--	--	--	--	--	--	--	6.4 3.9	
27	7 04 65	-- --	26.1 24.7	--	--	--	--	--	--	--	--	--	--	5.8 3.9	
27	7 05 65	-- --	26.9 25.1	--	--	--	--	--	--	--	--	--	--	6.0 4.0	
27	7 06 65	-- --	27.5 25.0	--	--	--	--	--	--	--	--	--	--	5.6 3.6	
27	7 07 65	-- --	27.0 25.2	--	--	--	--	--	--	--	--	--	--	6.0 4.0	
27	7 08 65	29.3 --	27.8 25.6	8.5	118	--	--	22	13	--	--	--	--	6.0 3.9	
EXTREME		-- --	27.8 24.5	--	--	--	--	--	--	--	--	--	--	6.4 3.6	
AVERAGE		-- --	26.7 24.9	--	--	--	--	--	--	--	--	--	--	5.9 3.8	
28	7 09 65	29.8 27.3	28.5 25.8	7.8	108	6.0	82	24	13	11.00	10.00	5.9	4.0		
28	7 10 65	30.3 27.6	29.1 26.8	7.7	107	5.8	79	25	13	11.00	9.80	5.9	3.7		
28	7 11 65	29.1 27.4	28.4 26.3	7.0	96	5.5	75	23	14	11.00	9.90	5.4	3.6		
28	7 12 65	27.4 25.8	26.9 25.1	6.6	88	5.1	69	26	14	11.40	10.00	5.4	3.5		
28	7 13 65	28.2 25.6	26.4 24.5	9.6	132	4.7	63	24	12	11.40	10.00	5.5	3.5		
28	7 14 65	28.7 26.1	27.4 24.0	8.6	118	5.0	68	19	11	11.20	10.10	5.6	3.9		
28	7 15 65	29.0 27.0	27.5 24.1	7.8	107	5.5	74	19	11	11.40	9.90	5.7	3.4		
EXTREME		30.3 25.6	29.1 24.0	9.6	132	4.7	63	26	11	11.40	9.80	5.9	3.4		
AVERAGE		28.9 26.6	27.7 25.2	7.8	108	5.3	72	22	12	11.16	9.95	5.6	3.6		
29	7 16 65	29.7 26.7	27.5 25.3	9.6	133	4.8	65	17	11	11.60	10.00	5.5	3.7		
29	7 17 65	29.8 27.1	27.5 25.6	7.6	106	4.8	62	17	11	11.50	10.10	5.9	3.8		
29	7 18 65	30.1 27.4	28.0 26.5	7.0	99	4.4	60	18	--	11.40	10.60	6.1	3.8		
29	7 19 65	30.0 27.6	28.8 26.7	6.9	--	4.5	62	--	--	--	10.10	5.5	4.6		
29	7 20 65	28.7 26.7	28.1 26.4	7.1	99	4.2	--	--	--	--	10.60	5.7	3.9		
29	7 21 65	29.1 26.5	27.5 26.3	7.1	100	4.3	58	19	13	11.80	10.70	5.9	3.9		
29	7 22 65	28.5 26.8	27.3 26.4	7.1	97	4.4	59	20	14	12.00	1.11	5.2	3.9		
EXTREME		30.1 26.5	28.8 25.3	9.6	133	4.2	58	20	11	12.00	1.11	6.1	3.7		
AVERAGE		29.4 26.9	27.8 26.1	7.4	105	4.4	61	18	12	11.66	8.71	5.6	3.9		
30	7 23 65	28.6 26.4	27.1 26.0	7.6	106	5.3	72	--	--	12.10	10.90	6.0	4.1		
30	7 24 65	29.8 27.0	28.4 26.4	7.3	100	5.5	74	--	--	11.80	10.70	6.0	4.2		
30	7 25 65	30.2 27.9	29.3 26.9	6.8	96	5.4	75	21	12	11.80	10.20	6.0	3.4		
30	7 26 65	30.9 28.4	29.6 27.0	8.1	116	4.9	68	26	12	11.40	10.20	5.6	3.2		
30	7 27 65	30.0 28.3	29.0 27.3	7.1	99	4.9	69	25	13	11.80	10.70	5.8	3.7		
30	7 28 65	29.8 27.8	28.7 27.0	7.8	108	4.7	66	24	12	12.00	10.60	5.9	3.7		
30	7 29 65	28.8 27.6	28.5 26.9	7.3	100	4.8	66	--	--	12.10	10.70	6.1	3.4		
EXTREME		30.9 26.4	29.6 26.0	8.1	116	4.7	66	26	12	12.10	10.20	6.1	3.2		
AVERAGE		29.7 27.6	28.6 26.7	7.4	103	5.0	70	24	12	11.85	10.57	5.9	3.6		

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

		TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
31	7 30 65	28.7 26.8	27.9 26.6	7.3	100	4.8	65	--	--	12.40	11.00	6.2	3.8
31	7 31 65	28.5 26.7	27.5 26.6	6.9	95	5.4	74	--	--	12.40	11.00	6.2	3.8
31	8 01 65	27.6 26.0	26.9 25.8	6.4	86	5.5	74	--	--	12.60	11.30	6.8	4.1
31	8 02 65	27.5 25.8	26.6 25.5	7.4	100	5.3	71	19	13	12.10	11.30	6.6	4.3
31	8 03 65	28.1 26.1	27.0 26.0	7.9	108	5.9	80	--	--	12.10	11.00	5.8	3.6
31	8 04 65	28.5 26.5	27.4 26.0	9.5	182	5.8	78	--	--	12.30	11.20	5.7	3.7
31	8 05 65	29.1 26.4	27.6 26.0	9.5	83	6.0	81	23	13	12.20	10.60	5.3	3.5
EXTREME		29.1 25.8	27.9 25.5	9.5	182	4.8	65	--	--	12.60	10.60	6.8	3.5
AVERAGE		28.2 26.3	27.2 26.0	7.8	107	5.5	74	--	--	12.30	11.05	6.0	3.8
32	8 06 65	29.2 27.0	27.8 26.0	8.5	108	5.6	76	--	--	12.20	11.30	5.8	3.9
32	8 07 65	29.7 27.5	28.4 26.6	6.9	98	5.6	77	--	--	12.10	10.70	5.9	3.7
32	8 08 65	29.5 27.9	28.4 27.1	6.8	98	5.6	77	--	--	12.10	10.70	5.5	3.9
32	8 09 65	29.3 27.9	28.4 27.3	7.1	99	5.6	73	--	--	12.10	10.70	5.8	3.8
32	8 10 65	29.2 27.8	29.0 27.3	7.6	--	5.4	74	--	--	--	--	5.7	3.3
32	8 11 65	-- --	28.6 26.5	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	5.0	2.8
32	8 12 65	29.1 27.0	27.9 26.4	8.0	111	4.9	66	18	10	12.20	11.20	5.2	3.4
EXTREME		29.7 27.0	29.0 26.0	8.5	111	4.9	66	--	--	12.20	10.70	5.9	2.8
AVERAGE		29.3 27.5	28.3 26.7	7.4	102	5.4	73	--	--	12.14	10.92	5.5	3.5
33	8 13 65	29.2 27.2	28.0 26.7	7.6	106	5.0	68	18	10	12.50	11.40	5.3	3.3
33	8 14 65	29.4 27.4	28.4 26.7	7.0	97	4.5	63	21	11	12.40	11.20	5.2	3.4
33	8 15 65	29.5 27.7	28.5 27.0	7.4	104	3.9	53	16	11	12.30	11.30	5.7	3.5
33	8 16 65	30.2 28.0	28.5 27.5	7.3	101	4.2	58	17	10	12.70	11.70	5.7	4.1
33	8 17 65	30.8 28.3	28.9 27.9	7.1	101	4.2	58	19	11	12.90	11.70	5.7	3.9
33	8 18 65	30.9 28.4	28.9 27.9	7.4	106	4.5	63	17	14	12.70	11.90	6.0	4.3
33	8 19 65	30.4 28.9	29.3 28.1	7.9	113	4.4	61	17	14	12.60	11.70	6.0	4.2
EXTREME		30.9 27.2	29.3 26.7	7.9	113	3.9	53	21	10	12.90	11.20	6.0	3.3
AVERAGE		30.0 27.9	28.6 27.4	7.3	104	4.3	60	17	11	12.58	11.55	5.6	3.8
34	8 20 65	30.6 28.5	29.0 27.4	7.4	106	4.8	67	15	10	12.60	11.30	5.0	3.1
34	8 21 65	29.6 27.8	28.5 27.5	8.8	124	4.6	64	18	11	12.90	11.70	5.6	3.7
34	8 22 65	28.8 27.6	27.9 27.1	7.1	99	4.2	58	25	14	12.80	11.70	5.9	4.0
34	8 23 65	28.7 27.4	27.6 26.7	6.1	84	4.4	60	23	13	12.60	11.30	5.7	3.4
34	8 24 65	28.3 27.0	27.3 26.4	7.0	96	4.4	60	--	--	12.50	11.70	5.5	3.4
34	8 25 65	27.6 26.6	26.8 26.0	6.1	82	4.4	59	--	--	12.60	11.50	5.8	3.7
34	8 26 65	28.4 26.3	27.4 25.7	-- --	-- --	-- --	-- --	-- --	-- --	12.40	11.00	6.1	3.8
EXTREME		30.6 26.3	29.0 25.7	8.8	124	4.2	58	25	10	12.90	11.00	6.1	3.1
AVERAGE		28.8 27.3	27.7 26.6	7.0	98	4.4	61	20	12	12.62	11.45	5.6	3.5

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C				DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR			SURFACE MAX	MIN	BOTTOM MAX	MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
35	8	27	65	--	--	27.9	26.2	--	--	--	--	--	--	--	--	6.0	3.8
35	8	28	65	--	--	27.8	26.6	--	--	--	--	--	--	--	--	6.1	2.8
35	8	29	65	--	--	27.1	25.0	--	--	--	--	--	--	--	--	4.7	2.1
35	8	30	65	--	--	25.5	24.3	--	--	--	--	--	--	--	--	5.1	2.8
35	8	31	65	--	--	24.9	24.0	--	--	--	--	--	--	--	--	5.2	3.2
35	9	01	65	24.5	--	24.0	23.5	--	--	--	--	26	15	12.20	11.00	5.9	4.0
35	9	02	65	25.7	23.9	24.6	23.7	8.7	114	.3	82	20	13	11.80	10.30	5.1	2.9
EXTREME				--	--	27.9	23.5	--	--	--	--	--	--	--	--	6.1	2.1
AVERAGE				--	--	25.9	24.7	--	--	--	--	--	--	--	--	5.4	3.0
36	9	03	65	25.4	23.8	24.4	23.7	9.0	118	6.5	83	21	14	12.00	10.70	5.2	3.4
36	9	04	65	25.5	24.0	24.6	23.8	8.6	113	6.4	83	16	13	12.20	11.10	5.4	3.8
36	9	05	65	25.5	23.8	24.5	23.6	8.1	107	6.0	78	16	14	12.30	11.40	5.5	3.9
36	9	06	65	25.8	25.2	24.9	23.9	7.3	96	5.9	77	--	--	12.50	11.10	5.6	3.7
36	9	07	65	26.1	24.0	25.0	23.8	7.3	96	5.6	73	--	--	12.20	11.60	5.5	3.6
36	9	08	65	26.6	24.5	25.4	24.0	7.0	93	4.8	63	--	--	12.70	11.80	5.7	4.0
36	9	09	65	26.7	24.9	25.7	24.3	5.8	78	4.0	53	--	--	12.80	11.80	5.9	3.8
EXTREME				26.7	23.8	25.7	23.6	9.0	118	4.0	53	--	--	12.80	10.70	5.9	3.4
AVERAGE				25.9	24.3	24.9	23.8	7.5	100	5.6	72	--	--	12.38	11.35	5.5	3.7
37	9	10	65	27.5	25.2	26.0	24.6	5.7	77	4.2	56	--	--	12.70	12.00	5.9	3.9
37	9	11	65	27.7	25.9	26.4	25.1	5.7	77	4.5	60	--	--	12.50	11.10	5.6	3.3
37	9	12	65	27.5	25.1	26.5	24.7	5.0	67	4.0	53	--	--	12.50	11.10	5.2	3.2
37	9	13	65	25.4	24.6	25.0	24.1	4.7	62	4.1	54	--	--	12.60	11.40	6.1	3.7
37	9	14	65	26.2	24.4	25.1	24.0	5.8	76	4.1	53	22	5	12.40	11.00	6.1	4.0
37	9	15	65	25.5	24.5	24.8	24.1	5.4	71	4.2	55	14	4	12.40	11.30	6.2	4.1
37	9	16	65	27.4	25.0	25.8	24.5	6.1	81	4.7	62	14	4	12.30	11.00	6.0	3.9
EXTREME				27.7	24.4	26.5	24.0	6.1	81	4.0	53	--	--	12.70	11.00	6.2	3.2
AVERAGE				26.7	24.9	25.6	24.4	5.4	73	4.2	56	--	--	12.48	11.27	5.8	3.7
38	9	17	65	27.3	25.5	25.9	24.7	6.4	86	4.7	62	--	--	12.00	10.60	5.2	3.5
38	9	18	65	28.0	25.5	25.8	24.7	6.9	95	4.6	60	--	--	11.90	10.70	5.5	3.8
38	9	19	65	29.0	26.3	27.0	24.7	8.0	111	4.8	63	--	--	11.70	10.50	5.3	3.4
38	9	20	65	28.9	26.5	27.5	24.8	7.8	108	4.8	64	--	--	12.20	11.00	6.2	4.1
38	9	21	65	29.0	26.9	27.9	25.7	7.4	101	5.3	72	12	2	12.20	10.90	6.2	4.0
38	9	22	65	29.3	27.3	28.1	26.4	6.4	89	5.5	75	17	2	12.00	11.00	6.0	3.9
38	9	23	65	28.9	27.1	27.8	26.4	6.8	94	5.2	70	--	5	12.70	11.50	6.1	4.0
EXTREME				29.3	25.5	28.1	24.7	8.0	111	4.6	60	--	--	12.70	10.50	6.2	3.4
AVERAGE				28.6	26.4	27.1	25.3	7.1	97	4.9	49	--	--	12.10	10.88	5.7	3.8

TABLE 1. (cont'd)

TABLE 1. (CONT.)																	
								38 30 45 N				76 40 14 W					
TEMPERATURE DEG C								DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
		DATE		SURFACE		BOTTOM											
WEEK	MO	DA	YR	MAX	MIN	MAX	MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
39	9	24	65	28.3	27.3	27.5	26.3	6.0	82	5.3	73	--	--	12.80	11.40	6.5	4.1
39	9	25	65	27.4	25.6	27.0	25.1	6.2	83	5.2	69	--	--	12.60	11.40	6.0	3.3
39	9	26	65	25.8	24.0	25.5	24.0	6.2	82	4.9	64	--	--	13.20	11.50	5.9	3.7
39	9	27	65	24.9	23.4	24.6	23.3	6.1	78	5.0	65	--	--	12.90	11.80	5.6	3.4
39	9	28	65	23.6	22.1	23.6	22.2	6.7	85	5.3	68	25	13	13.50	12.20	6.1	3.6
39	9	29	65	23.2	21.5	22.6	21.8	7.1	90	5.5	65	29	12	13.20	12.10	6.0	4.1
39	9	30	65	23.2	22.1	22.5	22.0	6.9	87	5.7	72	23	13	12.80	11.20	5.8	4.1
EXTREME				28.3	21.5	27.5	21.8	7.1	90	4.9	64	--	--	13.50	11.20	6.5	3.3
AVERAGE				25.2	23.7	24.7	23.5	6.4	83	5.2	68	--	--	13.00	11.65	5.9	3.7
40	10	01	65	22.4	22.0	22.1	21.8	6.6	84	6.3	80	--	--	13.00	12.00	6.9	4.8
40	10	02	65	22.7	21.3	21.9	21.1	7.4	93	6.2	77	--	--	12.70	11.30	5.6	3.3
40	10	03	65	22.0	20.6	21.6	21.1	7.0	86	5.8	72	--	--	12.50	11.60	5.4	4.0
40	10	04	65	20.7	19.2	26.7	19.6	7.6	89	6.6	80	--	--	12.50	11.40	4.6	2.7
40	10	05	65	19.8	17.8	21.0	18.6	7.8	91	6.9	80	--	--	13.10	11.30	4.3	2.6
40	10	06	65	18.8	16.7	20.0	18.1	8.4	99	7.1	82	--	--	13.60	12.30	5.2	3.4
40	10	07	65	18.7	17.6	18.9	17.7	7.7	91	6.8	80	--	--	14.00	12.80	7.0	4.2
EXTREME				22.7	16.7	26.7	17.7	8.4	99	5.8	72	--	--	14.00	11.30	7.0	2.6
AVERAGE				20.7	19.3	21.7	19.7	7.5	90	6.5	78	--	--	13.05	11.81	5.5	3.5
41	10	08	65	18.4	17.6	18.0	17.3	7.5	88	6.5	76	--	--	13.80	12.30	6.8	4.0
41	10	09	65	18.4	17.2	17.8	17.4	7.8	91	7.0	81	--	--	13.40	12.20	5.6	3.8
41	10	10	65	18.2	17.7	17.6	17.2	7.7	90	7.1	83	--	--	13.40	12.10	5.5	3.6
41	10	11	65	17.9	16.7	17.8	17.0	8.1	95	7.0	80	--	--	13.50	12.30	5.5	3.6
41	10	12	65	18.0	17.1	17.7	17.2	8.5	98	7.1	83	24	13	13.70	11.90	5.9	3.6
41	10	13	65	18.0	16.6	17.7	16.9	8.7	100	7.4	84	26	14	13.00	11.60	5.2	3.3
41	10	14	65	18.1	16.7	17.7	17.1	9.0	105	7.5	85	20	14	13.00	11.90	5.5	3.7
EXTREME				18.4	16.6	18.0	16.9	9.0	105	6.5	76	--	--	13.80	11.60	6.8	3.3
AVERAGE				18.1	17.0	17.7	17.1	8.1	95	7.0	81	--	--	13.40	12.04	5.7	3.6
42	10	15	65	19.2	17.5	18.2	17.4	9.1	108	7.5	87	20	14	12.90	12.00	5.4	3.5
42	10	16	65	19.9	18.3	19.1	18.1	9.4	112	7.7	91	21	12	12.70	11.70	5.1	3.3
42	10	17	65	18.9	17.8	18.8	18.1	9.8	115	7.6	88	19	13	13.10	11.70	5.3	3.3
42	10	18	65	18.6	17.0	18.3	17.6	10.1	119	8.2	94	15	13	13.30	11.40	5.8	3.9
42	10	19	65	18.9	17.4	18.3	17.5	10.0	118	8.4	98	16	14	13.40	11.80	5.4	3.4
42	10	20	65	--	17.9	18.1	17.8	9.3	109	8.1	94	19	15	--	--	--	--
42	10	21	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EXTREME				19.9	17.0	19.1	17.4	10.1	119	7.5	87	21	12	13.40	11.40	5.8	3.3
AVERAGE				19.1	17.6	18.4	17.7	9.6	113	7.9	92	18	13	13.08	11.72	5.4	3.4

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR			SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
43	10	22	65	--	--	--	--	--	--	--	--	--	--	--	--
43	10	23	65	--	--	--	--	--	--	--	--	--	--	--	--
43	10	24	65	--	--	--	--	--	--	--	--	--	--	--	--
43	10	25	65	--	--	--	--	--	--	--	--	--	--	--	--
43	10	26	65	--	--	--	--	--	--	--	--	--	--	--	--
43	10	27	65	16.1	14.7	16.1	15.3	10.0	112	8.4	93	--	--	13.60	12.40
43	10	28	65	15.7	14.3	15.9	14.7	9.7	107	8.5	92	--	--	13.40	12.20
EXTREME				--	--	--	--	--	--	--	--	--	--	--	--
AVERAGE				--	--	--	--	--	--	--	--	--	--	--	--
44	10	29	65	15.2	12.1	14.9	13.4	10.5	112	8.5	91	--	--	13.00	11.70
44	10	30	65	13.4	11.6	14.5	12.6	10.4	109	8.5	89	26	22	13.20	11.80
44	10	31	65	13.2	12.4	13.4	12.5	9.9	109	8.8	92	25	23	12.70	11.80
44	11	01	65	12.7	12.0	13.0	12.3	9.5	99	9.0	94	--	14	12.30	10.60
44	11	02	65	12.5	11.3	13.4	12.4	9.8	101	8.7	88	18	13	12.50	11.10
44	11	03	65	12.4	11.7	12.6	12.3	9.6	100	9.0	93	14	12	12.90	12.40
44	11	04	65	13.9	12.3	13.4	12.3	9.4	99	8.8	92	21	13	13.10	11.60
EXTREME				15.2	11.3	14.9	12.3	10.5	112	8.5	88	26	12	13.20	10.60
AVERAGE				13.3	11.9	13.6	12.5	9.8	104	8.7	91	20	16	12.81	11.57
45	11	05	65	13.3	12.2	13.7	12.6	9.4	99	8.6	91	18	12	13.40	12.00
45	11	06	65	13.7	12.1	13.6	12.6	9.1	97	8.2	87	21	12	13.70	12.80
45	11	07	65	14.1	12.7	14.1	13.1	9.0	98	8.0	85	19	13	14.00	12.20
45	11	08	65	14.8	13.4	14.5	13.6	8.9	98	7.9	85	18	13	14.40	13.20
45	11	09	65	14.1	13.8	14.4	13.9	8.4	91	7.6	83	25	13	14.60	13.80
45	11	10	65	13.4	12.7	14.0	13.5	8.4	90	8.0	86	20	13	15.10	14.00
45	11	11	65	13.6	12.7	13.6	13.3	8.3	89	7.9	95	20	13	15.00	14.00
EXTREME				14.8	12.1	14.5	12.6	9.4	99	7.6	83	25	12	15.10	12.00
AVERAGE				13.8	12.8	13.9	13.2	8.7	94	8.0	87	20	12	14.31	13.14
46	11	12	65	13.6	12.6	13.4	13.2	8.2	87	7.7	82	24	14	15.20	14.10
46	11	13	65	13.8	12.8	13.5	13.2	7.9	85	7.7	83	20	14	15.30	14.40
46	11	14	65	14.0	12.6	14.1	13.3	8.3	87	7.5	80	35	14	15.00	14.30
46	11	15	65	13.0	11.6	13.5	12.6	8.3	87	7.9	83	24	14	15.00	14.20
46	11	16	65	12.1	11.9	12.6	12.2	8.5	89	8.2	85	20	14	15.20	14.40
46	11	17	65	12.5	10.6	12.6	11.7	9.0	92	8.3	86	--	15	14.70	13.00
46	11	18	65	9.9	8.1	11.4	9.8	9.8	94	9.0	--	--	20	14.70	--
EXTREME				14.0	8.1	14.1	9.8	9.8	94	7.5	80	35	14	15.30	13.00
AVERAGE				12.7	11.4	13.0	12.2	8.5	88	8.0	83	24	15	15.01	14.06

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

		TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR	SURFACE MAX MIN	BOTTOM MAX MIN	MAX	% SAT	MIN	% SAT	MAX	MIN	MAX	MIN	MAX	MIN
47	11 19 65	9.5 8.0	10.6 9.4	9.4	91	9.0	87	31	15	15.20	13.40	5.2	2.7
47	11 20 65	9.5 7.9	10.5 9.5	9.3	90	8.9	88	34	14	15.50	13.80	5.9	3.5
47	11 21 65	9.7 8.9	10.2 9.5	9.0	88	8.8	79	31	14	15.40	14.60	6.2	4.3
47	11 22 65	9.5 9.2	10.1 9.7	8.9	87	8.7	86	35	15	15.30	14.30	6.1	4.3
47	11 23 65	9.8 8.9	10.3 9.6	8.9	88	8.6	84	41	16	15.70	14.40	6.2	4.1
47	11 24 65	9.4 9.6	10.4 9.6	9.1	89	8.6	83	30	4	15.50	14.20	5.4	3.7
47	11 25 65	9.4 8.0	10.4 9.3	9.0	86	8.6	84	16	4	15.50	14.30	5.6	3.8
EXTREME		9.8 7.9	10.6 9.3	9.4	91	8.6	79	41	4	15.70	13.40	6.2	2.7
AVERAGE		9.5 8.6	10.3 9.5	9.0	88	8.7	84	31	11	15.44	14.14	5.8	3.7
48	11 26 65	9.8 8.7	10.0 9.4	8.9	87	8.6	85	20	10	15.60	14.70	5.9	4.2
48	11 27 65	10.3 9.4	10.5 9.6	8.9	90	8.6	85	36	13	15.50	14.50	6.2	4.5
48	11 28 65	10.6 9.3	10.6 9.7	8.9	88	8.6	84	40	18	15.20	14.30	5.7	4.1
48	11 29 65	9.6 8.1	10.1 9.3	9.0	87	8.8	86	31	16	15.30	14.00	5.1	3.5
48	11 30 65	8.2 7.4	10.1 9.0	9.3	87	9.1	87	18	16	15.70	14.60	4.9	3.5
48	12 01 65	8.0 6.7	9.8 8.4	9.4	88	9.1	86	23	16	15.30	14.20	4.8	3.1
48	12 02 65	8.3 5.9	9.1 7.5	10.3	97	9.5	91	18	13	16.10	14.30	4.7	3.3
EXTREME		10.6 5.9	10.6 7.5	10.3	97	8.6	84	40	10	16.10	14.00	6.2	3.1
AVERAGE		9.2 7.9	10.0 8.9	9.2	89	8.9	86	26	14	15.52	14.37	5.3	3.7
49	12 03 65	8.3 7.6	8.8 7.5	10.3	98	9.5	91	22	14	16.00	14.40	5.3	3.2
49	12 04 65	8.4 7.7	8.6 7.9	10.2	97	9.5	91	47	14	16.20	14.90	5.5	3.5
49	12 05 65	7.9 6.7	8.1 7.4	10.1	93	9.7	93	29	15	16.40	14.80	5.6	3.6
49	12 06 65	7.7 6.6	7.9 6.4	10.1	95	9.6	91	43	16	16.10	14.80	5.5	3.5
49	12 07 65	7.3 5.8	7.4 6.5	10.6	96	9.9	92	60	17	16.20	14.60	4.6	2.5
49	12 08 65	6.4 5.1	7.2 6.7	10.6	96	10.0	89	26	16	16.30	14.50	5.4	3.4
49	12 09 65	6.4 5.6	6.8 6.0	10.5	96	10.1	93	32	17	16.20	14.90	5.3	3.1
EXTREME		8.4 5.1	8.8 6.0	10.6	98	9.5	89	60	14	16.40	14.40	5.6	2.5
AVERAGE		7.4 6.4	7.8 6.9	10.3	95	9.7	91	37	15	16.20	14.70	5.3	3.2
50	12 10 65	7.0 5.7	6.6 6.1	10.5	97	10.1	93	28	17	16.40	15.20	5.6	3.5
50	12 11 65	7.5 6.4	7.3 6.6	10.4	98	10.1	93	30	16	16.20	15.00	5.5	3.5
50	12 12 65	7.9 6.7	7.5 6.9	10.4	98	10.0	93	29	16	16.20	15.00	5.8	3.8
50	12 13 65	8.0 7.3	7.9 7.3	10.4	99	10.0	94	23	15	16.10	14.60	6.6	4.4
50	12 14 65	8.4 7.4	8.2 7.4	10.3	99	9.8	93	20	15	16.00	14.90	6.4	4.4
50	12 15 65	8.5 7.4	8.2 7.6	10.3	99	9.8	92	22	15	15.90	15.00	6.0	4.2
50	12 16 65	8.7 7.5	8.4 7.7	10.1	98	9.7	92	20	15	16.00	15.60	6.0	4.3
EXTREME		8.7 5.7	8.4 6.1	10.5	99	9.7	92	30	15	16.40	14.60	6.6	3.5
AVERAGE		8.0 6.9	7.7 7.0	10.3	98	9.9	92	24	15	16.11	15.04	5.9	4.0

TABLE 1. (cont'd)

38 30 45 N 76 40 14 W

				TEMPERATURE DEG C		DISSOLVED PPM		OXYGEN %		TURBIDITY JCU		SALINITY PPT		TIDE HEIGHT FT	
WEEK	DATE MO DA YR			SURFACE MAX	MIN	BOTTOM MAX	MIN	MAX	SAT	MIN	SAT	MAX	MIN	MAX	MIN
51	12	17	65	8.4	7.4	8.4	7.7	10.3	99	9.7	91	25	15	16.00	15.00
51	12	18	65	7.9	7.1	8.0	7.3	10.3	97	9.9	92	27	16	15.90	14.70
51	12	19	65	7.6	6.6	7.5	6.6	10.6	98	9.9	92	24	15	15.90	14.70
51	12	20	65	6.0	5.5	7.1	6.0	10.6	96	10.2	93	26	15	16.10	14.80
51	12	21	65	5.8	5.0	6.2	5.7	10.5	93	10.1	91	25	15	16.10	15.00
51	12	22	65	5.6	4.5	5.9	5.2	10.5	93	10.0	87	29	16	16.00	14.60
51	12	23	65	5.7	4.5	5.6	5.5	10.7	96	10.3	91	29	16	15.90	14.60
EXTREME				8.4	4.5	8.4	5.2	10.7	99	9.7	87	29	15	16.10	14.60
AVERAGE				6.7	5.8	6.9	6.2	10.5	96	10.0	91	26	15	15.98	14.77
52	12	24	65	5.5	5.0	5.4	5.2	10.7	98	10.3	92	26	16	15.60	14.40
52	12	25	65	7.0	5.4	6.7	5.4	10.5	97	10.3	93	49	1	15.70	14.70
52	12	26	65	6.8	5.3	6.9	6.2	10.6	96	10.4	95	152	11	14.90	13.00
52	12	27	65	5.1	3.6	6.1	4.9	11.0	95	10.3	88	267	35	15.50	13.50
52	12	28	65	4.7	3.5	5.5	4.4	10.9	93	10.5	91	149	17	15.50	14.50
52	12	29	65	4.6	3.5	5.3	4.6	10.9	95	10.6	92	29	17	15.50	14.60
52	12	30	65	4.7	3.9	5.4	4.6	11.0	97	10.5	91	24	15	15.50	13.40
52	12	31	65	5.6	4.5	5.3	4.7	10.9	97	10.5	93	25	16	15.30	14.40
EXTREME				7.0	3.5	6.9	4.4	11.0	98	10.3	88	267	1	15.70	13.00
AVERAGE				5.5	4.3	5.8	5.0	10.8	96	10.4	91	90	16	15.43	14.06

TABLE 2. SURFACE WATER TEMPERATURES FROM LOWER MARLBORO, MD. (°C)

LOCATION 383921N 764104

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
26..	1963	06-25	07-01	26.2	25.0	27.2	25.7	28.5	26.5	28.4	27.5	--	--	--	--	--	--	27.5	26.1
27..		07-02	07-08	29.9	29.2	29.2	28.2	28.5	27.4	27.4	26.5	26.9	26.1	27.1	25.7	26.6	25.8	27.9	26.9
28..		07-09	07-15	26.3	25.0	25.5	24.7	25.9	24.4	26.6	25.1	26.7	25.3	26.0	24.3	25.6	24.1	26.0	24.7
29..		07-16	07-22	26.7	25.0	27.6	26.0	28.5	26.7	28.7	27.5	28.8	27.8	28.5	27.6	28.6	27.4	28.2	26.8
30..		07-23	07-29	28.2	27.7	28.9	27.5	29.0	28.0	--	--	--	--	--	--	--	--	28.7	27.7
31..		07-30	08-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32..		08-06	08-12	--	--	27.6	--	27.5	26.6	28.0	27.0	27.3	27.0	27.5	27.0	27.7	26.5	27.6	26.8
33..		08-13	08-19	27.5	26.8	26.8	25.0	26.3	24.1	25.3	24.4	25.3	24.1	25.5	24.6	25.0	24.4	25.9	24.7
34..		08-20	08-26	25.5	24.5	25.5	24.6	26.9	--	27.0	26.3	29.1	27.4	27.0	25.7	26.6	25.4	26.8	23.6
35..		08-27	09-02	26.4	25.5	26.0	24.8	24.8	24.6	25.5	24.6	26.0	24.6	26.0	24.6	25.3	24.1	25.7	24.6
36..		09-03	09-09	25.0	24.1	25.0	24.6	24.8	23.6	23.5	22.9	23.1	22.4	23.4	22.4	23.9	22.5	24.1	23.2
37..		09-10	09-16	24.3	23.1	24.3	23.2	24.4	23.5	24.2	22.5	22.7	21.4	21.4	19.7	19.7	18.9	23.0	21.7
38..		09-17	09-23	18.9	18.6	19.2	18.6	20.0	19.0	21.0	19.6	20.9	--	20.3	19.3	19.3	18.6	19.9	18.9
39..		09-24	09-30	19.2	18.3	19.0	17.5	19.1	18.0	20.1	18.5	19.9	18.9	20.3	19.4	19.6	18.9	19.6	18.5
40..		10-01	10-07	19.4	18.5	19.4	18.3	19.3	18.6	19.0	18.4	19.0	17.8	19.2	17.9	19.0	18.0	19.1	18.2
41..		10-08	10-14	19.0	18.3	18.9	18.2	18.9	17.9	18.5	17.6	18.4	18.0	18.5	17.5	18.0	17.0	18.6	17.7
42..		10-15	10-21	17.9	16.9	17.6	17.3	17.6	17.1	17.6	17.4	18.2	17.4	18.3	17.5	18.0	17.2	17.8	17.2
43..		10-23	10-28	17.8	16.7	17.7	16.6	17.7	16.2	17.1	16.7	17.7	16.8	18.3	17.7	17.7	16.9	17.7	16.8
44..		10-29	11-04	--	--	15.3	13.5	14.0	12.7	13.3	12.6	12.6	10.5	11.5	9.3	11.6	9.0	13.0	11.2
45..		11-05	11-11	10.5	10.0	11.8	10.4	11.6	11.0	11.6	11.5	11.6	11.0	13.0	10.6	12.3	10.6	11.7	10.7
46..		11-12	11-18	11.1	10.4	11.0	10.1	10.6	9.6	--	--	--	--	--	--	--	--	10.9	10.0
47..		11-19	11-25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
48..		11-26	12-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
49..		12-03	12-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
50..		12-10	12-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
51..		12-17	12-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

LOCATION 383921N 764104

TABLE 2. (cont'd)

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
52..	1963	12-24	12-31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1..	1964	01-01	01-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2..		01-08	01-14	--	--	--	--	2.4	1.6	1.8	1.0	1.4	--	.4	-.5	.2	-.6	1.2	.3
3..		01-15	01-21	--	--	.6	.1	-.6	.1	-.5	.2	-.5	.2	-.3	.5	.1	.9	.1	.3
4..		01-22	01-28	--	--	.9	.4	1.6	.4	1.7	.4	2.8	1.5	2.7	1.5	5.0	2.0	5.3	1.2
5..		01-29	02-04	2.7	2.0	2.6	2.1	2.4	2.3	2.5	2.0	2.6	2.2	2.4	2.1	2.4	1.2	2.5	1.9
6..		02-05	02-11	2.7	1.5	5.2	2.3	4.7	3.1	4.6	4.1	5.2	4.2	5.1	4.3	4.6	2.5	4.5	3.1
7..		02-12	02-18	--	--	--	--	3.0	--	2.7	2.1	2.7	2.0	2.9	1.6	2.6	1.9	2.7	1.9
8..		02-19	02-25	2.7	2.3	3.0	2.2	3.0	2.3	2.8	2.0	3.0	1.9	3.0	1.9	2.7	2.2	2.8	2.1
9..		02-26	03-03	3.9	2.4	3.6	3.0	3.5	2.5	3.2	2.1	3.9	2.5	4.4	2.9	4.4	3.9	3.8	2.7
10..		03-04	03-10	4.5	4.4	8.4	5.0	9.2	8.1	9.4	8.2	9.8	8.9	11.5	9.0	13.2	10.4	9.4	7.7
11..		03-11	03-17	12.0	10.5	11.0	9.1	10.0	9.0	9.2	8.5	9.5	8.7	9.3	8.3	8.1	8.0	9.8	8.8
12..		03-18	03-24	8.6	7.8	7.9	6.7	7.6	6.5	7.6	5.6	6.7	5.5	8.1	5.5	8.0	6.1	7.7	6.2
13..		03-25	03-31	9.1	7.5	10.2	9.0	10.0	9.4	10.2	9.4	10.1	9.5	9.4	7.5	8.4	9.5	9.6	8.8
14..		04-01	04-07	9.3	7.0	9.3	7.0	9.3	7.0	9.3	7.0	9.3	7.0	9.3	7.0	9.5	8.8	9.3	7.2
15..		04-08	04-14	9.7	9.4	10.5	8.7	10.4	8.6	11.0	9.4	11.1	10.0	12.0	11.1	12.8	11.9	11.0	9.8
16..		04-15	04-21	13.5	12.5	15.1	12.5	15.5	13.1	16.5	14.1	16.7	15.3	17.3	16.3	16.5	14.5	15.8	14.0
17..		04-22	04-28	14.9	14.6	16.5	14.0	15.9	14.9	15.5	14.6	15.9	14.6	15.2	14.7	15.5	15.1	15.6	14.6
18..		04-29	05-05	16.0	14.8	15.0	14.4	14.5	13.0	14.2	13.0	14.0	13.0	15.5	12.9	16.7	14.6	15.1	13.6
19..		05-06	05-12	18.9	16.8	20.3	18.0	21.8	19.2	21.7	20.3	21.6	20.2	21.8	20.7	22.6	20.6	21.2	19.4
20..		05-13	05-19	22.4	21.5	22.3	21.4	21.3	20.0	21.4	19.8	21.5	20.2	22.1	21.9	22.7	21.5	21.9	20.9
21..		05-20	05-26	22.9	22.0	23.6	22.1	23.0	21.7	24.6	22.4	24.9	23.1	24.7	24.0	25.5	23.8	24.1	22.7
22..		05-27	06-02	24.5	23.6	24.4	23.3	23.1	22.5	23.9	22.1	23.3	22.4	22.4	22.1	22.3	21.0	23.4	22.4
23..		06-03	06-09	21.5	20.8	22.0	20.7	--	--	--	--	--	--	--	--	--	--	21.7	20.7
24..		06-10	06-16	--	--	--	--	--	--	25.8	--	27.0	25.0	26.7	25.6	26.2	25.7	26.4	25.4
25..		06-17	06-23	25.8	24.8	25.3	24.7	25.9	24.8	27.6	25.2	28.0	26.4	28.3	27.4	27.6	27.4	26.9	25.8

TABLE 2. (cont'd)

LOCATION 383921N 764104

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
26..	1964	06-24	06-30	27.5	27.0	27.4	26.6	28.2	26.4	28.7	26.6	--	26.7	--	--	--	--	27.9	26.6
27..		07-01	07-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28..		07-08	07-14	--	--	--	--	27.4	--	28.6	26.0	27.3	26.7	26.3	26.1	27.3	26.3	27.3	26.2
29..		07-15	07-21	27.9	26.1	28.0	27.1	29.3	27.3	28.4	27.9	28.3	27.3	28.1	27.3	27.7	27.2	28.2	27.1
30..		07-22	07-28	28.0	27.5	28.2	27.7	27.6	27.2	26.5	25.6	26.1	24.8	27.1	24.7	27.1	25.9	27.2	26.2
31..		07-29	08-04	28.4	26.7	27.9	27.0	27.7	26.7	27.2	26.6	27.0	26.0	26.4	26.1	25.6	24.0	27.1	26.1
32..		08-05	08-11	25.6	24.3	26.0	24.7	25.6	24.8	26.3	24.9	25.8	24.9	24.9	24.6	26.0	24.9	25.7	24.7
33..		08-12	08-18	26.3	25.0	25.2	24.6	24.6	24.1	24.7	23.7	23.9	23.5	24.6	23.4	25.0	23.1	24.9	23.9
34..		08-19	08-25	24.7	23.7	24.6	22.8	25.2	23.9	25.9	24.7	26.9	25.6	27.9	25.9	27.8	26.7	26.1	24.7
35..		08-26	09-01	27.8	27.3	27.5	26.7	27.4	26.6	27.2	26.6	27.4	26.6	27.7	26.9	27.2	26.7	27.4	26.7
36..		09-02	09-08	27.0	25.9	26.3	25.0	26.4	25.1	26.5	25.6	26.3	25.4	26.0	24.9	25.8	24.8	26.3	25.2
37..		09-09	09-15	26.4	25.0	26.4	25.3	26.9	25.6	26.4	24.7	24.7	22.8	24.6	21.8	22.6	21.3	25.4	23.7
38..		09-16	09-22	23.8	21.3	22.6	21.7	22.7	22.1	22.7	22.4	22.4	21.8	22.0	21.5	21.5	21.1	22.5	21.7
39..		09-23	09-29	22.0	21.0	22.0	21.4	21.5	20.7	21.6	20.4	21.4	20.4	20.9	19.9	19.8	18.5	21.3	20.3
40..		09-30	10-06	19.4	18.2	18.6	18.2	18.4	18.2	9.1	18.2	18.7	18.3	18.4	17.0	17.3	16.4	18.5	17.7
41..		10-07	10-13	16.7	15.6	16.2	14.2	16.3	14.4	15.7	13.9	14.1	13.2	14.6	12.7	14.4	13.0	15.4	13.8
42..		10-14	10-20	14.9	13.6	15.6	13.5	15.0	14.2	15.0	14.6	15.8	14.5	15.6	14.5	14.5	13.6	15.2	14.0
43..		10-21	10-27	14.0	12.8	13.5	12.8	13.1	12.0	--	--	--	--	--	--	13.4	12.0	13.5	12.4
44..		10-28	11-03	13.7	12.7	13.8	12.6	14.0	12.3	13.9	12.2	13.5	12.4	13.4	12.0	13.5	12.1	13.6	12.3
45..		11-04	11-10	13.5	12.1	--	--	--	--	--	--	--	--	--	--	--	--	13.5	12.1
46..		11-11	11-17	--	--	--	--	--	--	--	--	--	--	--	--	--	13.1	--	13.1
47..		11-18	11-24	12.9	12.2	13.1	12.2	13.1	11.7	12.0	10.2	10.7	9.3	9.9	8.9	9.8	8.5	11.6	10.4
48..		11-25	12-01	10.5	8.7	10.3	9.4	10.0	9.3	10.1	9.1	10.1	9.4	9.7	8.1	8.1	6.8	9.8	8.6
49..		12-02	12-08	7.2	6.5	6.9	6.3	7.2	6.5	7.4	6.8	6.8	6.0	6.4	5.3	6.4	4.6	6.9	6.0
50..		12-09	12-15	6.0	4.9	5.5	4.5	6.1	4.5	6.1	5.5	6.5	5.5	6.3	5.7	4.8	3.7	5.9	4.9
51..		12-16	12-22	4.6	3.3	4.6	3.7	4.9	.9	3.5	2.4	3.2	2.9	3.2	2.7	3.7	3.0	3.9	2.7

LOCATION 383921N 764104

DATE				1	2	3	4	5	6	7	MEAN										
WEEK	YEAR	MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
52..	1964	12=	23	12=	31	3.6	3.0	3.9	3.3	5.2	3.8	6.4	5.2	6.9	6.2	7.2	6.7	6.9	6.5	6.0	5.3
				8	9																
				7.3	6.7	7.4	6.9														
1..	1965	01=	01	01=	07	6.7	6.4	6.5	6.3	6.2	4.8	4.9	3.1	3.7	2.7	3.7	3.2	3.6	2.7	5.0	4.1
2..		01=	08	01=	14	4.2	3.3	4.3	4.0	--	--	--	--	4.8	4.4	4.4	3.8	4.1	2.0	4.3	3.5
3..		01=	45	01=	21	2.2	1.4	1.7	.5	.8	.6	1.0	.3	1.7	1.0	1.2	.5	.9	.1	1.3	.6
4..		01=	22	01=	28	.6	.6	.9	.2	1.3	.8	2.2	1.1	2.8	1.4	3.0	2.1	2.6	1.5	1.9	1.1
5..		01=	29	02=	04	2.1	1.5	1.8	.8	1.2	.1	1.0	1.0	.3	.3	.6	1.0	.9	1.0	1.1	.7
6..		02=	05	02=	11	.8	.3	1.4	.4	2.3	.8	3.2	1.9	3.6	2.7	4.2	3.5	5.5	4.0	3.0	1.9
7..		02=	12	02=	18	6.5	5.0	6.6	6.3	6.2	5.5	5.4	5.0	5.4	4.6	5.6	4.9	6.0	4.8	5.9	5.1
8..		02=	19	02=	25	5.8	3.9	4.1	2.8	4.5	3.1	3.9	2.4	2.9	1.9	3.1	2.1	4.9	3.1	4.1	2.7
9..		02=	26	03=	04	3.9	2.4	3.6	2.3	4.8	2.7	5.3	3.8	5.0	4.1	5.0	4.4	5.8	4.6	4.7	3.4
10..		03=	05	03=	11	6.1	5.3	5.6	5.2	6.2	5.1	6.3	5.3	6.7	5.7	6.5	6.0	5.8	5.0	6.1	5.3
11..		03=	12	03=	18	6.2	4.9	7.0	5.0	6.8	5.4	7.0	5.7	7.7	5.5	6.7	6.2	6.5	6.1	6.8	5.5
12..		03=	19	03=	25	7.0	6.2	6.6	5.1	6.0	5.0	6.0	4.9	6.9	5.2	7.0	6.3	7.5	6.7	6.7	5.6
13..		03=	26	04=	01	7.2	6.5	8.3	6.7	8.7	7.2	9.4	8.2	9.8	9.0	9.7	8.9	9.6	8.7	8.9	7.8
14..		04=	02	02=	07	9.5	8.8	9.4	8.5	9.6	8.5	10.9	8.7	9.7	9.5	9.9	9.5	11.8	9.6	10.1	9.0
15..		04=	09	04=	15	11.5	11.1	12.5	10.7	12.0	11.6	14.4	12.0	13.2	12.9	13.6	11.9	12.8	10.3	12.8	11.5
16..		04=	16	04=	22	13.3	12.1	14.0	12.0	14.0	12.0	14.0	12.0	14.0	12.0	14.8	12.8	15.5	13.9	14.2	12.4
17..		04=	23	04=	29	16.3	14.9	15.5	14.7	15.1	13.9	14.4	13.3	14.0	13.9	13.7	13.4	14.4	13.1	14.7	13.8
18..		04=	30	05=	06	15.4	13.5	16.1	14.6	16.8	15.7	19.0	16.4	20.8	17.5	19.6	18.8	20.2	19.0	18.2	16.5
19..		05=	07	05=	13	18.8	19.6	19.0	18.5	19.9	18.3	21.4	8.9	23.3	20.4	22.4	21.6	22.4	21.5	21.0	18.4
20..		05=	14	05=	20	22.0	20.1	20.2	19.1	20.1	19.0	20.9	19.5	20.8	19.7	21.5	20.0	--	--	20.9	19.5
21..		05=	21	05=	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22..		05=	28	06=	03	24.9	23.6	25.0	23.5	25.5	24.0	24.5	23.5	--	--	--	--	--	--	24.9	23.6
23..		06=	04	06=	10	24.0	23.0	24.2	22.7	25.0	23.0	25.0	23.5	25.9	24.6	25.5	25.1	26.5	25.0	25.1	23.8
24..		06=	11	06=	17	26.9	25.5	26.6	26.0	26.5	26.0	26.4	26.0	25.6	23.9	23.5	21.4	21.5	21.0	25.2	24.2
25..		06=	17	06=	24	20.6	20.5	22.0	20.0	23.3	20.4	23.6	21.5	24.7	22.9	26.0	24.0	25.9	25.2	23.7	22.0

TABLE 2. (cont'd)

LOCATION 383921N 764104

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
26..	1965	06-25	07-01	26.2	25.0	26.3	25.0	26.0	25.0	26.5	25.2	27.5	25.9	27.5	26.6	27.3	26.1	26.7	25.5
27..		07-02	07-08	27.1	26.2	26.4	25.5	27.0	25.0	26.6	26.4	27.0	26.1	27.0	26.5	27.7	26.3	26.9	26.0
28..		07-09	07-15	28.4	27.0	29.2	27.5	28.5	27.5	27.5	26.5	27.5	26.3	28.6	26.8	28.5	27.4	28.3	27.0
29..		07-16	07-22	28.5	27.5	29.7	28.0	29.5	28.4	29.1	28.2	28.9	28.0	28.8	27.7	28.9	27.5	29.0	27.9
30..		07-23	07-29	28.8	27.1	29.3	27.6	30.4	28.5	30.4	29.0	29.6	29.0	29.3	28.4	28.9	28.0	29.5	28.2
31..		07-30	08-05	28.8	27.5	28.6	27.4	27.6	26.6	26.9	26.0	27.2	26.1	27.0	26.0	27.6	26.2	27.6	26.5
32..		08-06	08-12	28.2	26.6	28.6	27.1	28.7	27.6	28.6	27.9	29.1	27.7	28.7	27.7	28.7	27.4	28.6	27.4
33..		08-13	08-19	28.8	27.8	29.4	28.0	30.0	28.4	30.3	28.7	30.4	29.0	30.5	29.1	30.0	29.4	29.9	28.6
34..		08-20	08-26	29.7	28.8	29.5	28.3	28.9	27.8	27.9	27.3	27.7	26.8	27.5	26.7	27.5	26.4	28.3	27.4
35..		08-27	09-02	27.1	26.4	27.7	26.0	26.0	25.0	25.5	24.6	25.0	23.7	24.0	23.0	24.0	23.0	25.6	24.5
36..		09-03	09-09	24.2	22.9	24.0	23.0	24.4	23.0	24.5	23.0	24.5	23.0	24.4	23.2	24.7	23.6	24.3	23.1
37..		09-10	09-16	25.0	23.8	25.0	24.5	24.7	23.5	24.0	23.2	24.7	--	25.2	23.7	25.2	24.0	24.8	23.7
38..		09-17	09-23	25.4	24.5	26.2	24.6	26.6	25.1	27.5	25.8	27.7	26.7	27.7	26.9	27.5	26.7	26.9	23.7
39..		09-24	09-30	27.3	26.3	26.4	24.5	24.8	23.7	23.8	22.4	22.5	21.5	22.0	21.0	21.7	20.8	24.0	22.8
40..		10-01	10-07	21.8	20.8	21.5	20.1	20.9	19.5	19.5	17.9	18.0	16.8	17.6	16.1	17.7	16.7	19.5	18.2
41..		10-08	10-14	17.1	16.4	16.8	16.2	16.7	16.0	17.3	15.7	17.3	16.2	17.3	15.7	17.5	15.8	17.1	16.0
42..		10-15	10-21	18.2	16.1	18.3	16.9	18.4	16.9	18.2	16.7	18.1	16.7	18.5	16.6	18.4	17.2	18.3	16.7
43..		10-22	10-28	18.9	18.0	19.4	18.0	18.6	16.3	16.3	15.3	15.8	15.0	15.5	14.6	15.1	13.6	17.0	15.8
44..		10-29	11-04	13.3	12.2	13.6	11.8	14.3	11.5	12.3	11.0	12.4	10.8	13.3	10.9	12.6	11.5	13.1	11.3
45..		11-05	11-11	12.6	11.0	12.4	10.9	12.7	11.4	13.8	12.2	13.4	11.9	13.3	11.3	13.0	11.8	13.0	11.5
46..		11-12	11-18	13.4	11.5	13.7	11.6	12.6	11.3	11.8	10.7	12.0	10.8	11.8	9.4	7.3	1.5	11.8	9.5
47..		11-19	11-25	9.0	7.8	8.7	7.6	8.3	7.9	8.3	8.0	8.7	7.5	8.0	7.3	8.2	7.2	8.4	7.6
48..		11-26	12-02	8.5	6.9	7.4	7.8	8.7	7.7	7.7	6.7	7.0	6.3	6.9	5.6	7.0	5.2	7.6	6.6
49..		12-03	12-09	6.9	5.7	7.0	5.9	6.7	5.4	6.3	5.0	5.7	--	5.7	.4	5.8	80.4	6.3	6.1
50..		12-10	12-16	6.4	4.8	6.7	5.2	7.3	5.7	7.8	6.1	7.9	6.5	7.7	6.5	7.7	6.7	7.3	5.9
51..		12-17	12-23	7.8	6.7	7.0	5.8	6.7	6.1	6.0	4.7	5.6	4.5	5.1	3.7	4.7	3.6	6.1	5.0
52..		12-24	12-31	6.5	4.1	6.5	4.5	--	--	5.1	.4	4.5	.4	4.2	20.3	4.0	50.3	5.0	10.0

8

4.4 .3

TABLE 3. SURFACE WATER TEMPERATURES FROM EAGLE HARBOR, MD. (°C) LOCATION 383350N 764057

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
25..	1963	06-18	06-24	--	--	--	--	24.9	24.0	24.9	24.0	--	23.1	--	--	27.2	--	25.6	23.7
26..		06-25	07-01	27.7	24.1	28.9	25.1	29.0	25.8	29.0	26.5	29.0	27.0	30.0	27.7	32.0	28.2	29.3	26.3
27..		07-02	07-08	30.6	28.7	29.2	28.5	27.2	26.2	--	--	--	--	--	--	--	--	29.0	27.8
28..		07-09	07-15	--	--	--	--	25.6	--	26.6	24.1	27.4	24.7	25.8	24.1	26.0	23.7	26.2	24.1
29..		07-16	07-22	27.7	25.0	29.0	26.1	--	--	--	--	--	--	--	--	--	--	28.3	25.5
30..		07-23	07-29	--	--	--	--	30.4	--	31.6	28.4	31.0	28.4	29.9	28.9	31.2	28.9	30.8	28.6
31..		07-30	08-05	30.7	28.7	30.4	28.3	29.6	28.3	29.2	27.6	28.9	27.7	28.8	27.7	27.6	26.3	29.3	27.8
32..		08-06	08-12	27.7	25.7	27.7	25.6	28.4	25.6	28.5	25.7	27.7	26.3	28.5	25.9	28.9	25.6	28.2	25.7
33..		08-13	08-19	26.9	25.6	26.0	25.0	25.6	23.6	25.2	23.9	25.1	24.1	25.5	24.5	24.9	24.5	25.6	24.4
34..		08-20	08-26	26.0	25.0	27.0	25.8	--	--	--	--	--	--	--	--	--	--	26.5	25.4
35..		08-27	09-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36..		09-03	09-09	--	--	--	--	--	--	23.0	--	23.5	22.2	24.6	22.6	24.7	23.0	23.9	22.6
37..		09-10	09-16	25.1	23.4	25.1	23.1	24.7	23.5	24.5	21.0	21.9	20.3	20.4	19.0	19.1	18.6	22.9	21.2
38..		09-17	09-23	18.6	18.3	19.5	18.4	21.0	18.8	21.7	19.7	21.1	20.6	19.2	18.9	18.9	16.7	20.0	18.7
39..		09-24	09-30	18.6	16.7	18.0	16.6	18.7	17.4	20.8	18.2	20.5	18.8	20.4	19.6	20.2	19.0	19.6	18.0
40..		10-01	10-07	20.0	18.2	20.0	18.5	20.1	19.0	20.0	18.9	19.4	17.7	20.0	18.0	20.5	18.4	20.0	18.3
41..		10-08	10-14	20.6	19.1	19.6	18.0	19.6	17.7	19.5	18.0	19.2	18.1	18.9	16.7	18.6	16.9	19.4	17.7
42..		10-15	10-21	18.3	16.9	18.8	16.8	19.0	16.9	18.7	17.2	18.9	17.2	18.7	17.8	17.9	17.6	18.6	17.2
43..		10-22	10-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44..		10-29	11-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45..		11-05	11-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
46..		11-12	11-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47..		11-19	11-25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
48..		11-26	12-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
49..		12-03	12-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
50..		12-10	12-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3. (cont'd)

LOCATION 383350N 764057

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
51..	1963	12-17	12-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52..		12-24	12-31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1..		01-01	01-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2..	1964	01-08	01-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3..		01-15	01-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4..		01-22	01-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5..		01-29	02-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6..		02-06	02-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7..		02-12	02-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8..		02-19	02-25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9..		02-26	03-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10..		03-04	03-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11..		03-11	03-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12..		03-18	03-24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13..		03-25	03-31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14..		04-01	04-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15..		04-08	04-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16..		04-15	04-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17..		04-22	04-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18..		04-29	05-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19..		05-06	05-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20..		05-13	05-19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21..		05-20	05-26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22..		05-27	06-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23..		06-03	06-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24..		06-10	06-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 3. (cont'd)

LOCATION 383350N 764057

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
25..	1964	06-17	06-23	--	--	--	--	26.5	24.9	26.5	24.9	27.5	26.2	29.3	27.0	27.8	27.0	27.5	26.0
26..		06-24	06-30	28.1	26.6	28.7	26.3	29.1	26.2	29.0	26.1	28.6	27.0	29.1	26.3	29.0	26.7	28.8	26.4
27..		07-01	07-07	29.6	28.0	28.7	27.5	28.8	27.5	28.3	27.1	27.3	26.0	27.5	25.3	27.5	26.0	28.2	26.7
28..		07-08	07-14	26.3	25.5	26.5	25.0	27.5	25.1	28.1	25.6	27.4	26.4	26.8	26.2	28.1	26.4	27.2	25.7
29..		07-15	07-21	28.9	26.9	29.2	27.6	30.3	27.9	28.4	27.9	28.2	27.5	29.0	27.0	28.7	27.7	28.9	27.5
30..		07-22	07-28	28.5	27.9	29.7	27.7	28.7	27.2	27.0	25.9	26.2	25.8	27.7	25.3	28.4	27.1	28.0	26.7
31..		07-29	08-04	29.4	27.6	29.0	27.5	28.4	27.3	27.5	26.6	27.6	26.0	26.9	25.6	25.9	24.5	27.8	26.4
32..		08-05	08-11	26.5	25.0	26.7	25.5	26.5	25.3	27.6	26.0	26.5	25.5	--	--	25.7	24.7	26.5	25.3
33..		08-12	08-18	26.6	25.3	25.4	24.6	25.5	23.5	24.8	23.1	24.0	23.4	25.1	23.3	24.9	24.2	25.1	23.9
34..		08-19	08-25	24.6	23.6	24.6	23.2	25.6	23.5	25.8	24.5	26.9	25.0	27.6	25.8	27.2	25.7	26.0	24.4
35..		08-26	09-01	27.7	25.8	28.2	27.8	28.8	26.4	28.5	26.5	28.6	26.6	28.8	26.6	28.2	26.2	28.4	26.5
36..		09-02	09-08	27.5	25.3	26.9	24.8	27.1	25.3	27.2	25.8	28.0	25.5	27.5	25.3	27.9	25.2	27.4	25.3
37..		09-09	09-15	27.1	25.3	27.2	25.4	27.7	25.9	27.7	24.4	25.0	21.6	23.1	21.4	23.7	20.5	25.9	23.5
38..		09-16	09-22	26.0	21.4	24.9	21.8	22.5	22.2	22.6	22.2	22.3	21.5	21.9	21.1	21.5	20.7	23.1	21.5
39..		09-23	09-29	21.5	20.5	22.0	20.9	21.5	20.5	21.6	19.4	21.1	19.6	20.6	19.2	19.9	18.6	21.1	19.8
40..		09-30	10-06	19.1	18.4	18.5	18.2	19.2	18.2	19.1	18.4	18.9	17.6	18.4	17.0	17.5	16.4	18.6	17.7
41..		10-07	10-13	18.0	15.5	18.1	15.0	18.5	15.4	18.4	15.4	16.4	13.8	16.0	12.9	15.6	13.6	17.2	14.5
42..		10-14	10-20	16.2	14.1	15.8	14.0	15.4	15.0	17.5	15.6	18.6	15.7	18.5	15.0	--	14.7	17.0	14.8
43..		10-21	10-27	16.0	14.2	17.0	12.9	16.4	13.1	16.1	11.0	15.9	11.4	17.4	12.0	17.0	12.5	16.5	12.4
44..		10-28	11-03	17.5	13.9	18.0	14.3	18.4	14.3	18.2	14.3	16.8	13.8	17.0	12.8	17.1	13.5	17.5	13.8
45..		11-04	11-10	16.9	13.0	16.2	13.8	15.7	13.2	16.0	11.2	15.6	12.0	15.8	12.5	15.9	11.9	16.0	12.5
46..		11-11	11-17	16.2	12.8	15.9	13.2	15.7	13.5	16.3	13.2	16.0	12.6	16.0	13.3	16.5	12.9	16.0	13.0
47..		11-18	11-24	16.5	13.1	15.7	13.2	15.7	12.7	14.8	12.0	12.6	9.5	11.3	8.5	12.2	8.5	14.1	11.0
48..		11-25	12-01	11.5	9.7	13.0	10.2	13.2	9.9	13.2	8.5	13.9	1.0	12.0	60.8	8.5	90.5	12.1	20.0
49..		12-02	12-08	8.4	5.3	8.4	6.4	10.3	6.6	10.2	8.0	9.3	6.3	8.8	4.9	8.9	4.0	9.1	5.9
50..		12-09	12-15	7.3	5.7	7.7	3.0	6.7	4.5	7.2	6.5	7.0	6.0	6.8	5.0	6.1	3.2	6.9	4.8

TABLE 3. (cont'd)

LOCATION 383350N 764057

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
51..	1964	12-16	12-22	5.1	1.8	5.3	3.5	5.5	1.8	3.5	1.5	3.2	2.4	3.0	2.1	3.7	2.3	4.1	2.2
52..		12-23	12-31	4.2	1.5	5.5	3.8	6.8	4.5	8.9	6.2	9.0	7.2	7.5	6.4	7.0	6.0	7.1	5.3
				8		9													
				8.3	6.4	7.5	5.4												
1..	1965	01-01	01-07	6.1	4.8	6.2	5.3	6.0	4.3	4.7	2.8	5.5	1.0	5.4	4.3	5.1	2.6	5.5	3.5
2..		01-08	01-14	6.0	5.0	6.9	5.8	6.0	4.4	5.5	4.0	5.0	2.2	4.8	3.5	4.3	2.8	5.5	3.9
3..		01-15	01-21	2.7	1.6	2.7	2.1	1.9	.5	--	--	--	--	--	--	--	--	2.4	1.4
4..		01-22	01-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5..		01-29	02-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6..		02-05	02-11	--	--	--	--	--	--	--	--	9.8	4.7	9.0	4.7	10.6	5.4	9.8	4.9
7..		02-12	02-18	10.3	6.0	10.1	6.5	9.5	5.3	8.3	4.5	9.1	4.2	9.6	3.7	10.9	5.0	9.6	5.0
8..		02-19	02-25	9.0	6.0	5.2	3.3	4.8	3.0	4.0	2.9	3.2	1.2	4.8	2.0	6.3	4.4	5.3	3.2
9..		02-26	03-04	7.0	3.5	6.5	2.4	8.5	1.6	9.8	2.0	10.8	4.5	10.8	5.9	10.9	5.6	9.1	3.6
10..		03-05	03-11	10.5	6.6	11.0	5.9	9.0	6.1	12.3	6.0	9.7	7.1	9.2	6.8	7.7	5.5	9.9	6.2
11..		03-12	03-18	7.7	5.0	8.8	4.0	8.3	5.0	10.0	6.5	10.0	5.6	12.0	7.0	12.1	6.7	9.8	5.6
12..		03-19	03-25	13.2	7.4	--	7.8	--	--	--	--	--	--	10.2	8.9	10.2	8.0	11.2	8.0
13..		03-26	04-01	11.3	7.9	11.0	7.2	10.8	4.7	13.3	9.7	15.2	9.9	15.2	9.0	12.0	8.9	12.6	8.1
14..		04-02	04-08	12.7	9.2	11.1	9.4	12.2	8.8	15.0	8.9	14.2	11.2	15.9	10.8	15.2	11.0	13.7	9.9
15..		04-09	04-15	16.0	12.6	17.0	11.9	17.5	12.0	17.0	12.4	17.7	12.8	18.1	11.8	13.0	11.5	16.6	12.1
16..		04-16	04-22	15.9	11.7	--	11.6	--	--	--	--	17.2	--	18.0	14.5	20.0	16.0	17.7	13.4
17..		04-23	04-29	20.7	16.1	20.0	15.7	18.8	16.1	19.8	16.2	20.9	16.4	21.2	16.9	21.3	16.7	20.3	16.3
18..		04-30	05-06	19.5	16.8	20.6	17.6	22.1	18.5	25.8	19.3	24.6	19.7	24.4	21.0	24.3	21.1	23.0	19.1
19..		05-07	05-13	24.2	21.2	23.6	20.9	25.2	21.0	26.4	22.0	25.3	22.5	24.6	21.5	25.1	20.0	24.9	21.3
20..		05-14	05-20	24.6	19.9	24.4	19.4	24.6	20.5	26.0	22.1	26.5	22.8	26.2	22.4	26.7	23.0	25.5	21.4
21..		05-21	05-27	26.8	22.5	27.0	22.4	28.7	24.3	28.3	23.7	27.2	23.2	28.5	24.1	29.2	25.1	27.9	23.6
22..		05-28	06-03	29.0	25.4	28.0	25.1	26.5	23.0	25.5	22.4	27.3	22.6	28.1	23.8	28.1	24.2	27.5	23.7
23..		06-04	06-10	27.1	22.1	27.1	22.6	25.1	22.4	25.5	23.5	29.9	24.8	29.1	25.9	30.8	25.8	27.8	23.8
24..		06-11	06-17	30.1	26.6	30.9	26.1	30.5	26.5	30.5	25.1	27.9	23.5	24.2	21.2	24.1	20.4	28.3	24.2

TABLE 3. (cont'd)

LOCATION 383350N 764057

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
25..	1965	06-18	06-24	23.7	20.1	24.4	20.4	25.6	21.5	26.6	23.1	30.0	25.0	31.0	26.0	30.3	26.7	27.3	23.2
26..		06-25	07-01	30.1	26.3	30.1	25.5	29.4	25.0	29.8	24.9	30.4	25.7	30.6	26.4	30.1	25.7	30.0	25.6
27..		07-02	07-08	29.4	25.5	28.5	25.0	29.0	25.0	30.0	26.0	30.5	26.4	30.1	26.5	31.2	26.6	29.8	25.8
28..		07-09	07-15	31.0	27.6	31.5	28.1	31.2	28.7	29.8	27.1	30.5	27.4	31.0	26.7	31.2	28.0	30.8	27.6
29..		07-16	07-22	32.0	27.9	--	--	--	--	32.0	27.6	--	--	--	--	30.7	27.0	31.5	27.5
30..		07-23	07-29	31.5	26.9	31.3	27.0	31.3	28.3	33.0	29.0	32.0	29.0	31.7	28.2	31.1	28.0	31.7	28.0
31..		07-30	08-05	31.4	28.3	30.6	27.1	29.1	26.1	29.6	25.6	30.0	26.1	30.3	26.8	31.3	26.8	30.3	26.6
32..		08-06	08-12	31.0	27.1	31.0	27.6	30.9	28.5	31.0	28.5	31.0	28.4	31.4	28.3	31.2	27.4	31.0	27.9
33..		08-13	08-19	31.5	27.8	32.8	28.2	--	--	--	--	32.2	--	32.1	29.0	32.1	29.8	32.1	28.7
34..		08-20	08-26	32.4	29.3	31.9	28.6	--	28.3	30.2	27.5	30.1	27.4	29.1	26.9	30.4	26.5	30.6	27.7
32..		08-27	09-02	30.0	26.9	30.5	27.1	28.4	24.7	27.8	23.7	27.5	23.7	26.5	22.9	28.0	24.5	28.3	24.7
36..		09-03	09-09	27.7	24.2	27.5	24.1	26.1	24.4	29.2	24.5	28.1	24.4	28.4	24.8	28.2	25.0	27.8	24.4
37..		09-10	09-16	29.0	25.4	29.1	26.5	28.0	25.5	27.0	24.5	28.0	24.5	27.6	24.7	29.1	25.2	28.2	25.1
38..		09-17	09-23	29.6	26.1	30.1	26.0	31.3	27.1	31.3	27.1	31.3	27.1	--	--	--	--	30.7	26.6
39..		09-24	09-30	--	--	--	--	--	--	--	--	25.4	21.9	23.5	21.0	24.1	21.5	24.3	21.4
40..		10-01	10-07	24.2	22.0	24.4	20.5	24.8	20.5	23.0	18.3	21.4	17.5	21.0	15.9	20.5	17.4	22.7	18.8
41..		10-08	10-14	21.2	17.7	20.8	17.5	21.0	17.4	20.4	17.0	20.8	17.4	20.7	16.2	21.8	16.6	20.9	17.1
42..		10-15	10-21	23.8	17.5	23.6	18.5	22.7	17.2	21.5	16.6	21.9	17.4	21.4	17.4	22.3	18.0	22.4	17.5
43..		10-22	10-28	22.1	18.9	23.6	18.7	22.7	17.4	19.0	16.1	19.3	15.2	19.7	15.5	19.7	15.1	20.8	16.7
44..		10-29	11-04	18.9	13.1	18.3	12.1	17.0	12.8	16.4	12.2	17.8	11.2	--	--	--	--	17.6	12.2
45..		11-05	11-11	--	--	15.8	--	17.5	12.5	--	--	--	--	17.8	13.0	17.2	13.2	17.0	12.9
46..		11-12	11-18	19.0	13.2	17.7	13.5	18.8	13.5	16.7	12.0	15.5	11.6	16.6	9.7	13.8	8.3	16.8	11.6
47..		11-19	11-25	16.3	7.9	14.7	7.7	13.8	8.7	12.9	8.8	14.0	8.6	15.9	8.6	12.5	8.2	14.3	8.3
48..		11-26	12-02	14.9	8.6	14.8	10.0	14.0	10.0	14.1	8.8	15.0	6.8	13.0	7.3	14.3	7.5	14.3	8.4
49..		12-03	12-09	14.1	7.8	11.3	7.7	12.8	6.5	11.5	6.5	11.6	5.9	9.9	5.3	11.3	5.1	11.7	6.4
50..		12-10	12-16	11.9	5.7	12.0	7.0	13.0	7.6	14.2	7.8	13.0	7.9	13.6	7.9	15.2	8.1	13.2	7.4
51..	1965	12-17	12-23	13.4	8.1	13.8	7.1	14.2	6.5	10.0	5.1	11.1	4.6	12.6	4.5	11.8	4.5	12.4	5.7
52..		12-24	12-31	10.6	5.1	12.5	5.9	8.9	4.7	8.1	3.8	14.6	2.8	11.1	3.7	11.1	3.5	10.9	4.2

TABLE 4. SURFACE WATER TEMPERATURES FROM CHALK POINT, MD. (°C)

LOCATION 383225N 764047

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
29..	1963	07-16	07-22	--	--	28.9	26.9	28.7	26.1	30.0	27.0	29.0	27.7	28.3	26.5	28.3	26.5	28.8	26.7
30..		07-23	07-29	28.0	26.5	29.2	26.7	29.1	27.0	30.9	27.7	30.8	28.3	30.4	29.0	31.1	29.0	29.9	27.7
31..		07-30	08-05	30.3	28.9	30.2	28.0	30.2	28.0	29.3	27.6	29.1	27.4	29.4	27.5	27.7	26.3	29.4	27.6
32..		08-06	08-12	28.1	26.0	27.8	26.3	27.5	25.7	28.3	26.3	27.7	26.3	28.3	26.5	28.9	26.3	28.0	26.2
33..		08-13	08-19	27.0	26.5	26.5	24.5	25.7	22.5	25.4	23.7	24.9	23.2	25.7	24.3	24.7	23.6	25.7	24.0
34..		08-20	08-26	25.7	24.0	25.6	24.2	26.6	24.9	27.7	26.0	27.0	23.7	26.1	23.5	25.3	24.0	26.2	24.3
35..		08-27	09-02	25.9	25.1	25.5	24.9	24.9	23.6	25.3	23.9	25.5	23.5	25.0	23.5	25.9	23.2	25.4	23.9
36..		09-03	09-09	25.0	23.5	25.1	24.3	24.5	22.0	23.0	20.9	--	--	--	--	--	--	24.4	22.6
37..		09-10	09-16	24.5	22.9	25.2	22.9	24.6	22.9	23.7	21.1	19.4	18.5	22.0	19.3	20.4	18.7	22.8	20.9
38..		09-17	09-23	20.5	18.7	--	--	--	--	--	--	--	--	--	--	--	--	20.5	18.7
39..		09-24	09-30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40..		10-01	10-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
41..		10-08	10-14	--	--	--	--	19.5	17.0	18.5	17.4	18.5	17.6	18.7	16.3	--	--	18.8	17.0
42..		10-15	10-21	--	--	19.0	16.4	19.0	17.1	19.7	17.3	18.5	17.5	18.3	17.5	17.8	--	18.7	17.1
33..		08-12	08-18	--	--	--	--	24.9	23.5	24.9	22.6	23.7	22.7	24.9	22.3	24.9	22.8	24.6	22.7
34..	1964	08-19	08-25	24.5	22.8	24.5	22.3	26.2	23.2	26.5	24.4	26.7	25.2	--	--	--	--	25.6	23.5
35..		08-26	09-01	27.5	26.7	27.7	26.5	27.5	26.3	27.6	26.5	27.2	26.4	--	--	--	--	27.5	26.4
36..		09-02	09-08	--	--	26.6	25.7	27.0	25.0	26.9	25.3	27.0	24.9	26.4	24.8	26.6	25.1	26.7	25.1
37..		09-09	09-15	27.7	25.0	27.2	25.2	27.8	25.9	26.8	24.3	24.5	21.5	22.2	20.6	22.9	20.1	25.5	23.2
38..		09-16	09-22	23.4	20.7	23.0	21.5	22.9	22.0	23.0	22.5	22.5	21.4	22.0	21.1	21.5	20.9	22.6	21.4
39..		09-23	09-29	22.8	20.6	22.3	21.1	21.7	20.5	21.5	19.7	21.2	19.9	20.6	19.3	19.6	18.8	21.3	19.9
40..		09-30	10-06	19.3	17.9	18.8	17.8	19.2	17.9	19.8	18.3	19.2	18.1	18.4	16.0	17.5	13.3	18.8	17.0
41..		10-07	10-13	17.1	15.1	16.5	14.7	14.9	13.4	15.4	12.2	--	--	--	--	16.7	14.3	16.1	13.9
42..		10-14	10-20	17.1	14.2	16.3	14.2	15.8	14.9	16.2	15.8	17.1	15.7	16.8	14.9	15.8	14.0	16.4	14.8
43..		10-21	10-27	14.8	13.0	14.7	13.3	14.0	12.5	13.6	11.8	14.0	11.9	15.1	12.3	14.8	13.1	14.4	12.5
44..		10-28	11-03	14.8	12.9	15.1	13.6	15.0	13.9	14.9	13.1	14.6	12.2	14.8	11.9	14.1	13.3	14.7	12.9

TABLE 4. (cont'd)

LOCATION 383225N 764047

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
45..	1964	11-04	11-10	14.3	12.8	14.1	12.9	13.6	12.1	13.3	11.8	13.0	12.0	13.3	11.9	13.2	11.6	13.5	12.1
46..		11-11	11-17	13.8	11.7	13.8	11.7	14.1	12.9	13.9	12.8	13.5	11.6	13.8	12.6	14.0	12.8	13.8	12.3
47..		11-18	11-24	13.6	12.0	13.5	12.4	13.2	11.4	12.3	9.9	10.3	8.0	9.1	7.4	10.0	7.4	11.7	9.7
48..		11-25	12-01	10.1	9.8	11.0	9.8	11.1	9.9	10.8	9.2	10.8	9.8	10.2	7.4	7.5	3.9	10.2	8.5
49..		12-02	12-08	6.3	3.5	6.8	4.9	8.9	6.1	8.6	7.7	8.6	5.8	7.3	4.6	7.1	4.2	7.6	8.2
50..		12-09	12-15	6.9	3.9	5.1	3.1	5.8	3.5	6.9	5.8	6.6	5.5	6.5	5.1	6.0	4.6	6.2	4.5
51..		12-16	12-22	6.1	3.0	6.0	3.7	6.0	3.4	4.3	.1	4.2	2.3	4.0	2.7	4.3	2.7	4.9	2.5
52..		12-23	12-31	4.4	3.1	4.8	4.0	6.7	4.4	9.7	6.1	10.0	7.1	7.8	6.7	7.0	6.0	7.1	5.2
				8		9													
				7.0	5.0	6.5	5.7												
1..	1965	01-01	01-07	6.0	4.6	5.5	4.5	5.3	3.5	4.4	2.9	4.3	3.1	4.3	3.5	4.4	3.0	4.8	3.5
2..		01-08	01-14	5.6	4.1	7.1	5.1	6.0	4.4	4.9	3.1	4.1	1.7	--	--	--	--	5.5	3.6
3..		01-15	01-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4..		01-22	01-28	--	--	--	--	--	--	--	--	3.3	2.5	3.7	.3	2.4	1.4	3.1	1.4
5..		01-29	02-04	1.5	.4	--	--	--	--	--	--	--	--	--	--	--	--	1.5	.4
6..		02-05	02-11	--	--	--	--	--	--	--	--	5.2	4.2	5.1	3.9	6.8	4.5	5.7	4.2
7..		02-12	02-18	7.5	4.7	6.0	5.0	5.0	2.9	4.3	1.8	5.0	2.1	5.3	3.2	5.9	3.5	5.5	3.3
8..		02-19	02-25	6.5	3.3	--	--	4.2	2.1	3.5	2.0	3.3	1.6	3.6	1.7	5.0	3.2	4.3	2.3
9..		02-26	03-04	5.0	2.9	3.9	--	6.2	2.2	5.7	4.1	7.0	3.5	7.0	5.5	7.7	5.7	6.0	3.9
10..		03-05	03-11	7.9	6.6	7.8	6.2	8.1	6.0	8.3	6.4	8.3	6.8	8.2	5.8	7.2	5.6	7.9	6.2
11..		03-12	03-18	6.9	4.3	7.7	4.3	8.1	5.6	8.0	6.1	8.0	6.1	7.2	5.8	6.9	5.8	7.5	5.4
12..		03-19	03-25	8.1	6.1	7.3	4.8	6.3	3.9	6.4	4.3	7.9	5.5	9.0	7.6	8.2	6.9	7.6	8.5
13..		03-26	04-01	8.2	6.7	9.2	7.1	10.4	6.8	11.1	8.3	10.4	9.1	9.8	7.8	9.9	7.3	9.8	7.5
14..		04-02	04-08	9.9	8.0	9.5	7.6	10.3	7.6	11.8	7.9	11.5	9.6	11.2	9.7	13.2	9.8	11.0	8.6
15..		04-09	04-15	13.0	11.0	13.8	10.9	12.1	11.0	13.8	11.0	14.2	11.4	13.2	10.7	12.1	11.0	13.1	11.0
16..		04-16	04-22	13.5	11.0	14.1	11.1	14.9	12.4	14.5	11.9	14.1	11.0	16.2	12.2	17.1	13.7	14.9	11.9
17..		04-23	04-29	18.1	15.4	15.9	14.0	14.4	12.9	16.7	12.8	14.9	14.1	14.6	13.7	15.1	13.2	15.6	13.7
18..		04-30	05-06	16.9	13.0	17.6	14.7	18.0	15.0	20.2	16.0	21.2	17.4	20.8	18.1	21.5	18.2	19.4	16.0

TABLE 4. (cont'd)

LOCATION 383225N 764047

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
19..	1965	05-07	05-13	20.4	18.5	19.5	17.9	21.8	17.7	23.7	18.9	23.6	20.6	23.0	20.1	21.9	18.8	21.9	18.9
20..		05-14	05-20	22.7	18.6	21.8	18.8	23.2	19.8	23.6	21.0	24.0	21.1	24.8	20.2	24.1	21.6	23.4	20.1
21..		05-21	05-27	23.5	21.7	24.7	21.6	26.7	22.5	24.8	22.1	24.6	22.0	25.9	22.3	26.7	23.9	25.2	22.3
22..		05-28	06-03	26.8	23.9	26.5	23.2	25.3	21.1	24.9	21.1	26.3	22.3	26.0	23.4	25.1	22.9	25.8	22.5
23..		06-04	06-10	25.1	21.8	25.0	22.4	26.0	22.4	27.3	23.2	27.2	24.4	26.0	25.1	27.4	24.8	26.2	23.4
24..		06-11	06-17	28.4	25.4	27.9	25.6	27.1	25.4	26.7	24.1	25.7	22.5	23.2	20.7	21.3	20.3	25.7	23.4
25..		06-18	06-24	21.9	20.2	22.8	20.3	24.9	21.1	26.0	22.3	27.3	23.9	--	--	--	--	24.5	21.5
26..		06-25	07-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27..		07-02	07-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8..		07-09	07-15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29..		07-16	07-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30..		07-23	07-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31..		07-30	08-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32..		08-06	08-12	--	--	--	--	--	--	--	--	--	--	13.0	12.2	14.4	12.1	13.7	12.1
33..		08-13	08-19	13.5	11.9	13.5	11.4	13.3	11.1	12.8	10.9	12.7	9.9	12.3	9.9	11.8	10.0	12.8	10.7
34..		08-20	08-26	12.0	9.9	13.0	11.1	13.0	12.0	12.7	12.5	14.5	12.5	14.5	13.1	14.6	12.7	13.4	11.9
35..		08-27	09-02	13.9	12.5	14.9	12.0	16.4	14.2	16.7	15.5	17.4	15.6	17.8	16.0	17.1	14.5	16.3	14.3
36..		09-02	09-09	17.1	14.9	17.1	15.0	17.1	15.2	16.9	15.1	17.2	14.9	16.8	14.8	16.2	14.4	16.9	14.9
37..		09-10	09-16	15.5	13.1	14.8	13.3	16.3	13.4	16.3	15.4	16.4	14.4	16.0	14.3	15.7	14.5	15.8	14.0
38..		09-17	09-23	--	--	--	--	--	--	--	--	--	--	29.3	28.7	29.0	27.2	29.1	27.9
39..		09-24	09-30	28.8	27.0	28.1	25.2	25.6	23.5	24.7	23.0	23.3	22.0	23.6	21.8	23.4	22.2	25.3	23.5
40..		10-01	10-07	22.9	22.0	23.1	21.2	22.1	20.7	21.2	20.0	19.0	17.4	19.6	15.9	18.1	17.2	20.8	19.2
41..		10-08	10-14	18.4	16.5	18.4	16.6	18.0	16.7	18.1	16.3	17.9	16.4	18.0	16.5	17.9	16.6	18.1	16.5
42..		10-15	10-21	19.2	17.2	20.1	18.1	18.6	17.2	18.2	16.5	18.5	16.5	18.9	16.4	19.3	17.3	18.9	17.0
43..		10-22	10-28	19.3	18.6	19.3	18.7	19.3	16.5	17.3	15.1	16.6	15.2	15.9	14.3	16.0	13.1	17.6	15.9
44..		10-29	11-04	14.2	11.6	12.6	10.6	13.0	9.8	13.5	11.0	12.5	10.5	12.6	10.6	13.5	10.8	13.1	10.7

TABLE 4. (cont'd)

LOCATION 383225N 764047

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
19..	1965	05-07	05-13	20.4	18.5	19.5	17.9	21.8	17.7	23.7	18.9	23.6	20.6	23.0	20.1	21.9	18.8	21.9	18.9
20..		05-14	05-20	22.7	18.6	21.2	18.8	23.2	19.8	23.6	21.0	24.0	21.1	24.8	20.2	24.1	21.6	23.4	20.1
21..		05-21	05-27	23.5	21.7	24.7	21.6	26.7	22.5	24.8	22.1	24.6	22.0	25.9	22.3	26.7	23.9	25.2	22.3
22..		05-28	06-03	26.8	23.9	26.5	23.2	25.3	21.1	24.9	21.1	26.3	22.3	26.0	23.4	25.1	22.9	25.8	22.5
23..		06-04	06-10	25.1	21.8	25.0	22.4	26.0	22.4	27.3	23.2	27.2	24.4	26.0	25.1	27.4	24.8	26.2	23.4
24..		06-11	06-17	28.4	25.4	27.9	25.6	27.1	25.4	26.7	24.1	25.7	22.5	23.2	20.7	21.3	20.3	25.7	23.4
25..		06-18	06-24	21.9	20.2	22.6	20.3	24.9	21.1	26.0	22.3	27.3	23.9	--	--	--	--	24.5	21.5
26..		06-25	07-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27..		07-02	07-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28..		07-09	07-15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29..		07-16	07-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30..		07-23	07-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31..		07-30	08-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
32..		08-06	08-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
33..		08-13	08-19	29.6	27.7	30.2	27.8	30.4	27.9	30.6	28.6	31.5	30.0	32.2	29.0	31.4	29.7	30.8	28.6
34..		08-20	08-26	31.6	29.4	30.3	28.2	29.4	28.0	29.0	27.7	28.6	26.8	28.3	26.8	28.6	26.8	29.4	27.6
35..		08-27	09-02	28.7	27.5	29.2	26.4	27.2	25.1	26.0	24.5	25.6	23.9	25.4	23.6	26.7	24.1	27.0	25.0
36..		09-03	09-09	26.5	24.2	26.3	24.0	26.2	24.2	26.1	24.3	26.5	24.0	26.6	24.5	27.3	25.3	26.5	24.3
37..		09-10	09-16	28.1	25.8	28.0	26.6	27.8	25.1	26.0	25.2	26.9	24.8	27.0	25.6	--	26.7	27.3	25.6
38..		09-17	09-23	--	--	--	--	30.9	27.2	--	--	--	--	29.3	28.7	29.0	27.2	29.7	27.7
39..		09-24	09-30	28.8	27.0	28.1	25.2	25.6	23.5	24.7	23.0	23.2	22.0	23.6	21.8	23.4	22.2	25.3	23.5
40..		10-01	10-07	22.9	22.0	23.1	21.2	22.1	20.7	21.2	20.0	19.0	17.4	19.6	15.9	18.1	17.2	20.8	19.2
41..		10-08	10-14	18.4	16.5	18.4	16.6	18.0	16.7	18.1	16.3	17.9	16.4	18.0	16.5	17.9	16.6	18.1	16.5
42..		10-15	10-21	19.2	17.2	20.1	18.1	18.6	17.2	18.2	16.5	18.5	16.5	18.9	16.4	19.3	17.3	18.9	17.0
43..		10-22	10-28	19.3	18.6	19.3	18.7	19.3	16.5	17.3	15.1	16.6	15.2	15.9	14.3	16.0	13.1	17.6	15.9
44..		10-29	11-04	14.2	11.6	12.6	10.6	13.0	9.8	13.5	11.0	12.5	10.5	12.6	10.6	13.5	10.8	13.1	10.7

TABLE 4. (cont'd)

LOCATION 383225N 764047

[illegible]

TABLE 5. SURFACE WATER TEMPERATURES FROM QUEENTREE LANDING, MD. (°C)

LOCATION 382517N 763705

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
25..	1963	06-18	06-24	--	--	25.2	24.3	25.9	23.5	24.7	22.6	24.8	21.3	28.9	22.2	27.7	24.1	26.2	23.0
26..		06-25	07-01	28.0	24.0	28.7	24.5	29.2	24.8	28.5	24.9	29.3	26.0	31.2	26.5	32.6	27.2	29.6	28.4
27..		07-02	07-08	31.7	27.7	28.7	26.5	26.5	24.0	26.0	23.6	27.9	24.0	27.0	24.8	26.7	24.0	27.7	24.9
28..		07-09	07-15	25.8	23.6	25.8	22.6	26.3	23.6	26.0	24.2	27.5	24.7	26.3	23.8	27.9	23.0	26.5	23.6
29..		07-16	07-22	28.9	24.8	26.5	25.7	--	--	31.5	29.8	28.5	26.5	28.0	25.9	28.5	26.0	28.6	26.4
30..		07-23	07-29	28.0	26.2	29.3	26.5	29.6	26.3	30.7	26.7	31.7	27.9	30.0	28.2	30.5	28.0	29.9	27.1
31..		07-30	08-05	30.0	27.7	--	--	30.3	28.8	29.5	27.9	29.0	26.6	28.9	27.0	27.4	25.5	29.1	27.2
32..		08-06	08-12	29.2	24.8	27.1	26.6	--	--	--	--	--	--	--	--	--	--	28.1	25.7
33..		08-13	08-19	--	--	--	--	--	--	25.6	25.2	26.3	23.4	26.3	24.9	25.2	23.9	25.8	24.3
34..		08-20	08-26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35..		08-27	09-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
36..		09-04	09-09	--	--	--	--	--	--	23.4	22.5	23.7	21.5	24.9	22.0	26.9	22.7	24.7	22.1
37..		09-10	09-16	26.5	23.3	25.6	24.0	26.0	23.6	24.6	21.7	23.1	20.6	21.1	18.5	19.4	17.3	23.7	21.2
38..		09-17	09-23	19.3	17.3	19.3	18.5	--	--	--	--	--	--	19.9	18.2	18.0	16.2	19.1	17.5
39..		09-24	09-30	18.6	15.5	19.0	17.1	20.5	17.8	23.2	19.0	21.6	19.0	20.3	19.4	19.5	19.0	20.3	18.1
40..		10-01	10-07	20.0	17.7	19.0	17.6	19.1	18.1	18.5	17.3	18.7	17.3	18.3	17.3	18.7	17.3	18.9	17.5
41..		10-08	10-17	19.3	17.7	18.6	17.6	18.4	17.2	18.6	17.3	18.5	17.7	18.3	17.3	18.3	16.6	18.5	17.3
42..		10-15	10-21	19.1	17.0	19.2	17.3	19.7	16.8	18.3	18.0	--	--	--	--	--	--	19.0	17.2
43..		10-23	10-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44..		10-29	11-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45..		11-05	11-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
46..		11-12	11-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47..		11-19	11-25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
48..		11-26	12-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
49..		12-03	12-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
50..		12-10	12-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 5. (cont'd)

LOCATION 382517N 763705

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
51..	1963	12	17	12	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
52..		12	24	12	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1..		01	01	01	07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2..	1964	01	08	01	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3..		01	15	01	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4..		01	22	01	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5..		01	29	02	05	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6..		02	06	02	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7..		02	12	02	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8..		02	19	02	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9..		02	26	03	03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10..		03	04	03	10	5.5	4.7	9.1	4.5	8.9	6.0	8.8	6.1	9.9	6.7	9.0	6.5	10.1	7.6
11..		03	11	03	17	10.4	6.2	8.7	7.6	8.5	6.9	8.8	7.1	8.7	7.7	8.5	7.2	10.4	7.0
12..		03	18	03	24	7.3	5.1	7.9	4.3	7.4	5.4	6.5	5.0	6.3	4.3	8.7	5.0	8.3	5.5
13..		03	25	03	31	10.9	7.3	11.0	8.5	10.6	7.9	10.3	8.6	10.0	9.0	9.1	5.0	7.7	2.6
14..		04	01	04	07	7.4	6.1	7.1	5.3	12.0	7.0	8.8	5.7	--	--	--	8.7	10.5	9.0
15..		04	08	04	14	12.0	9.7	11.3	8.5	11.4	8.3	13.7	9.5	12.4	10.3	12.8	11.2	12.6	11.8
16..		04	15	04	21	14.0	12.3	15.5	11.5	15.8	12.0	15.8	12.8	17.2	14.4	15.6	14.6	14.7	13.2
17..		04	22	04	29	14.7	12.9	16.3	13.7	15.9	14.6	15.9	13.9	15.0	13.9	15.0	14.0	16.7	14.7
18..		04	29	05	05	16.4	15.3	14.9	13.8	14.0	12.9	14.4	12.7	13.7	12.2	18.2	13.2	17.7	14.7
19..		05	06	05	12	19.5	15.7	17.9	15.4	20.2	16.7	18.7	16.2	19.0	17.9	21.0	17.2	22.0	19.4
20..		05	13	05	19	20.5	19.6	20.7	19.2	18.5	17.2	20.7	17.5	21.3	18.2	21.9	19.4	23.5	18.5
21..		05	20	05	26	23.4	19.0	22.9	20.2	22.8	19.6	24.9	21.0	26.5	22.1	23.4	21.4	23.5	20.7
22..		05	27	06	02	22.4	20.4	22.0	20.7	21.7	19.6	22.8	19.7	21.4	20.2	21.0	20.4	20.0	19.4
23..		06	03	06	09	21.6	19.3	22.3	19.7	23.2	20.4	22.1	20.3	23.2	21.3	24.0	21.2	23.9	22.3
24..		06	10	06	16	25.2	22.8	25.0	23.2	24.4	22.8	25.2	23.1	25.3	23.7	26.6	23.8	25.5	23.9

TABLE 5. (cont'd)

LOCATION 382517N 763705

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
25..	1964	06-18	06-24	24.4	22.0	24.2	22.6	25.6	23.7	27.5	24.0	28.9	24.9	29.6	26.3	28.0	27.0	26.8	24.3
26..		06-24	06-30	27.0	26.0	27.7	25.6	28.1	24.8	27.8	25.5	27.9	25.5	27.7	26.0	28.0	26.0	27.7	23.6
27..		07-01	07-07	29.1	26.4	27.7	26.0	28.0	25.9	26.8	25.8	25.9	24.1	27.1	24.4	26.2	24.4	27.2	25.2
28..		07-08	07-14	25.1	24.1	25.4	24.0	26.7	24.4	26.0	25.0	25.4	24.5	25.3	24.9	28.0	25.0	25.9	24.5
29..		07-15	07-21	28.4	25.5	29.7	27.4	30.5	27.6	28.6	27.7	29.5	27.0	28.6	26.8	28.8	26.8	29.1	26.9
30..		07-22	07-28	27.9	26.8	29.3	26.7	28.1	26.3	26.5	25.2	26.0	24.9	27.2	25.2	27.9	26.2	27.5	25.9
31..		07-29	08-04	29.1	26.4	28.0	25.8	27.5	25.6	27.1	25.5	27.2	25.3	26.4	25.4	26.0	24.0	27.3	23.4
32..		08-05	08-11	26.5	24.4	27.0	24.9	26.6	24.8	26.1	24.8	25.6	24.5	25.2	24.4	26.0	25.0	26.1	24.6
33..		08-12	08-18	26.8	25.1	25.4	24.1	24.5	23.4	25.0	23.4	24.2	23.8	25.5	23.2	26.2	24.1	25.3	23.8
34..		08-19	08-25	24.8	23.5	25.0	22.9	26.5	24.1	26.3	24.6	26.8	25.1	28.3	25.8	27.1	26.1	26.4	24.5
35..		08-26	09-01	27.5	26.1	26.2	25.5	27.5	25.1	27.4	25.1	27.4	26.4	27.1	26.4	26.6	25.6	27.1	23.7
36..		09-02	09-08	26.0	24.7	26.3	24.6	26.8	24.4	27.6	25.1	26.3	24.5	26.4	23.8	26.5	24.4	26.5	24.5
37..		09-09	09-15	26.5	24.7	--	24.7	--	--	--	--	--	--	--	--	--	--	26.5	24.7
38..		09-16	09-22	--	--	23.4	22.2	22.5	21.6	22.6	22.1	22.2	21.4	21.8	20.4	21.3	20.1	22.3	21.3
39..		09-23	09-29	22.2	19.9	21.8	20.8	21.5	19.3	21.0	18.4	20.8	19.6	20.4	17.8	20.4	17.8	21.1	19.0
40..		09-30	10-06	20.4	17.8	20.4	14.8	19.4	14.8	19.4	14.8	19.4	14.8	19.4	14.8	17.0	14.8	19.3	13.2
41..		10-07	10-13	16.4	14.5	16.6	13.6	16.9	15.5	16.5	14.2	14.9	13.2	15.8	13.2	16.5	14.5	16.2	14.1
42..		10-14	10-20	17.1	14.7	15.9	14.7	15.6	15.0	15.6	15.3	17.0	15.4	16.1	14.9	15.6	13.2	16.1	14.7
43..		10-21	10-27	14.5	11.4	14.8	13.0	14.0	12.2	13.5	10.6	13.6	11.5	16.6	12.5	15.2	13.8	14.6	12.1
44..		10-28	11-03	15.1	13.8	15.0	14.2	15.3	14.0	14.5	13.2	14.6	12.4	14.6	12.5	14.6	13.0	14.8	13.3
45..		11-04	11-10	15.0	13.3	14.4	13.2	13.9	12.4	13.4	11.4	13.4	12.2	13.5	12.4	14.0	12.2	13.9	12.4
46..		11-11	11-17	13.8	12.6	14.3	13.2	14.6	13.6	14.2	13.0	13.8	11.8	14.2	13.1	13.8	13.2	14.1	12.9
47..		11-18	11-24	13.4	12.6	13.2	12.6	13.5	11.6	12.2	9.3	10.5	7.3	9.8	6.0	10.0	8.2	11.8	9.6
48..		11-25	12-01	11.3	9.7	11.5	10.8	11.2	9.4	11.1	10.1	--	10.6	--	--	7.7	4.3	10.5	9.1
49..		12-02	12-08	7.9	4.3	8.1	6.7	9.3	7.4	9.0	8.3	--	6.8	--	5.6	7.6	5.6	8.3	6.3
50..		12-09	12-15	7.5	3.6	--	--	--	--	--	--	--	--	--	--	--	--	7.5	3.6

TABLE 5. (cont'd)

LOCATION 382517N 763705

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
51..	1964	12-16	12-22	--	--	--	--	--	--	--	--	--	--	--	--	4.4	3.5	4.4	3.5
52..		12-23	12-29	5.3	3.6	5.4	5.0	7.2	5.4	7.2	6.2	7.4	6.6	7.4	6.6	6.5	6.2	6.7	3.7
				8		9													
				7.4	6.2	7.0	5.8												
1..	1965	01-01	01-07	6.0	5.2	6.0	4.8	5.8	3.7	4.6	3.0	5.0	3.2	5.0	4.4	5.1	4.0	5.3	4.0
2..		01-08	01-14	6.3	5.1	7.0	5.9	6.3	5.0	5.4	4.4	6.0	4.6	5.4	4.4	5.4	3.5	5.9	4.7
3..		01-15	01-21	3.7	2.7	3.5	2.1	--	--	--	--	1.5	--	2.7	.7	2.7	.6	2.8	1.5
4..		01-22	01-28	4.7	.6	3.8	2.3	3.4	2.8	4.3	2.7	5.1	3.7	4.7	3.1	4.6	1.8	4.3	2.2
5..		01-29	02-04	3.4	2.5	1.9	.5	1.1	--	2.4	.5	2.4	1.4	.7	.2	1.5	-1.2	1.9	.6
6..		02-05	02-11	.7	--	2.4	.2	1.4	1.2	4.0	1.9	5.1	3.2	4.4	3.7	4.0	3.5	3.1	2.2
7..		02-12	02-18	4.9	3.0	5.1	4.0	4.7	3.0	4.1	2.3	5.0	3.0	5.0	3.4	5.0	3.5	4.8	3.1
8..		02-19	02-25	4.9	1.7	3.2	.4	4.7	2.5	4.4	2.6	4.0	2.2	4.7	2.5	5.5	3.7	4.4	2.2
9..		02-26	03-04	4.3	2.6	4.7	1.7	6.1	3.0	5.2	4.7	5.6	4.5	5.5	4.5	5.7	4.8	5.3	3.6
10..		03-05	03-11	5.6	5.0	5.8	5.0	6.5	4.8	6.3	4.9	7.3	5.9	6.6	5.4	6.3	4.2	6.3	3.0
11..		03-12	03-18	5.8	4.4	6.5	4.4	6.8	5.0	7.1	5.5	7.3	4.8	5.9	4.9	5.9	5.0	6.4	4.8
12..		03-19	03-26	7.5	5.6	6.5	3.9	6.3	2.4	6.5	4.1	9.1	4.7	7.1	6.0	6.5	5.8	7.0	4.6
13..		03-26	04-01	6.9	5.6	8.7	6.1	9.0	5.2	--	7.1	10.1	7.5	9.4	7.5	9.8	7.1	8.9	6.5
14..		04-02	04-08	8.2	7.2	9.0	6.5	9.4	7.0	10.2	7.3	9.5	9.0	9.6	9.1	13.6	9.5	9.9	7.9
15..		04-09	04-15	11.1	9.8	12.6	10.0	11.8	10.5	12.9	11.2	12.9	11.0	13.6	9.5	11.4	10.5	12.3	10.3
16..		04-16	04-22	13.0	11.0	13.0	10.9	13.5	11.4	13.3	11.6	11.9	--	14.0	11.5	16.1	12.2	13.5	11.4
17..		04-23	04-29	15.8	13.9	14.4	12.9	12.9	11.8	14.9	10.9	13.7	11.8	12.5	11.9	13.9	11.5	14.0	12.1
18..		04-30	05-06	14.7	11.5	14.4	12.5	15.4	12.9	18.6	13.7	20.7	15.4	18.6	16.5	19.5	17.0	17.4	14.2
19..		05-07	05-13	19.2	16.8	17.1	16.5	19.5	16.9	23.4	17.9	23.3	18.3	22.1	20.0	21.0	18.7	20.8	17.8
20..		05-14	05-20	20.9	18.1	20.2	18.4	22.0	18.8	20.2	19.4	20.9	19.1	20.7	18.9	20.0	19.1	20.7	18.8
21..		05-21	05-27	19.3	18.7	19.5	18.1	21.3	18.2	20.8	19.8	22.5	18.0	25.0	22.0	24.5	21.5	21.8	19.4
22..		05-28	06-03	25.6	21.1	24.4	22.5	23.5	21.2	22.6	21.9	25.6	21.6	23.7	22.1	23.1	21.0	24.0	21.6
23..		06-04	06-10	23.4	21.0	24.9	21.5	25.0	21.9	25.9	22.7	26.7	23.0	25.1	23.6	27.4	23.6	25.4	22.4
24..		06-11	06-17	26.5	24.7	27.2	24.8	26.4	24.9	25.4	23.5	24.6	21.6	22.3	18.9	20.8	18.0	24.7	22.3

TABLE 5. (cont'd)

LOCATION 382517N 763705

WEEK	YEAR	DATE		1		2		3		4		5		6		7		MEAN	
		MO	DA	MO	DA	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
25..	1965	06-18	06-24	20.6	18.6	21.6	18.1	24.3	20.0	24.7	21.0	26.2	22.1	28.0	23.5	25.4	23.2	24.4	20.9
26..		06-25	07-01	25.9	24.0	26.6	23.5	25.1	23.2	27.5	23.9	26.9	24.3	27.1	25.0	27.2	24.6	26.6	24.0
27..		07-02	07-08	25.9	24.6	24.9	23.9	27.1	24.2	27.8	25.0	27.9	25.4	26.7	25.7	28.7	25.6	27.0	24.9
28..		07-09	07-15	28.9	26.0	29.1	26.0	27.9	26.5	26.5	24.5	27.4	24.7	27.9	25.7	28.1	25.9	27.9	23.6
29..		07-16	07-22	28.9	26.5	28.6	26.7	29.5	26.9	28.5	26.6	28.0	26.1	28.3	26.6	28.0	26.4	28.5	26.5
30..		07-23	07-39	28.0	26.3	28.0	26.8	29.7	26.9	30.1	27.0	28.5	27.6	28.0	27.0	28.0	26.6	28.6	26.8
31..		07-30	08-05	28.0	25.7	27.5	26.3	27.0	26.0	27.0	25.7	27.4	25.6	27.6	25.9	29.0	25.6	27.6	23.8
32..		08-06	08-12	28.5	26.3	28.4	26.4	28.7	26.7	29.1	26.6	29.0	26.8	28.2	25.3	29.1	25.8	28.7	26.2
33..		08-13	08-19	28.7	26.5	29.0	26.5	29.0	26.9	29.0	27.0	29.0	27.5	29.8	27.5	29.5	28.2	29.1	27.1
34..		08-20	08-26	29.5	27.1	28.6	27.0	27.4	26.5	26.9	26.0	27.5	25.5	26.7	25.3	27.7	25.5	27.7	26.1
35..		08-27	09-02	27.7	25.5	28.0	26.0	25.5	21.1	25.1	22.4	25.0	23.0	24.5	23.0	25.0	23.4	25.8	23.4
36..		09-03	09-09	25.0	23.3	25.5	23.4	25.1	23.1	25.4	23.0	26.0	22.9	25.9	23.5	26.3	24.0	25.6	23.3
37..		09-10	09-16	25.8	24.0	26.0	24.7	25.3	24.0	24.0	23.0	25.1	23.4	25.3	24.0	26.0	24.6	25.3	23.9
38..		09-17	09-23	26.4	25.0	27.0	25.0	28.0	25.5	28.0	26.0	28.0	25.8	28.1	25.8	27.5	25.4	27.5	25.5
39..		09-24	09-30	26.6	25.5	25.6	23.0	24.9	21.7	23.8	21.1	22.4	20.1	23.3	20.4	22.4	21.1	24.1	21.8
40..		10-01	10-07	22.0	21.4	21.0	19.5	21.2	19.4	19.6	16.6	18.0	13.5	18.3	15.1	17.6	16.0	19.6	17.3
41..		10-08	10-14	18.1	16.3	--	--	--	--	--	--	--	--	18.0	16.0	18.2	16.4	18.1	14.2
42..		10-15	10-21	18.6	17.4	19.9	18.2	19.8	17.6	19.5	17.7	19.5	18.3	20.0	17.9	20.0	18.4	19.6	17.9
43..		10-22	10-28	19.7	19.1	19.8	18.9	19.3	16.6	17.1	14.9	16.7	14.4	16.0	14.0	17.1	13.8	17.9	15.9
44..		10-29	11-04	15.4	10.9	15.9	12.7	14.5	12.3	14.0	11.8	13.0	11.4	13.9	11.3	14.0	12.5	14.3	11.8
45..		11-05	11-11	13.5	11.7	13.5	11.5	14.0	12.1	14.5	13.5	14.0	13.0	13.3	11.3	13.0	12.0	13.6	12.1
46..		11-12	11-18	12.9	12.0	13.5	12.5	13.0	11.8	12.3	10.6	12.5	10.9	12.4	9.2	9.6	5.1	12.3	10.3
47..		11-19	11-25	9.7	7.2	9.8	7.9	9.5	8.9	9.4	8.9	10.4	8.8	9.5	8.5	9.6	7.5	9.7	8.2
48..		11-26	12-02	9.6	8.7	11.4	9.6	10.1	8.3	7.5	9.1	8.6	5.4	7.6	5.5	7.6	5.5	8.9	7.4
49..		12-03	12-09	7.6	6.7	8.1	7.4	7.9	6.1	7.4	6.1	6.7	4.9	7.0	4.0	6.6	5.2	7.3	5.7
50..		12-10	12-16	7.0	5.9	7.4	6.7	7.8	7.0	8.0	7.3	7.8	7.5	8.1	7.3	8.1	7.4	7.7	7.0
51..	1965	12-17	12-23	7.7	7.0	7.0	6.0	6.7	5.4	5.5	4.0	5.6	4.4	6.0	3.7	6.3	4.4	6.4	4.9
52..		12-24	12-31	7.0	5.7	8.0	6.6	7.5	4.3	5.5	3.2	5.9	4.4	5.5	4.3	5.1	4.1	6.6	4.7

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8.5 5.1

TABLE 6. WEEKLY AVERAGE OF DAILY MAXIMUM SURFACE WATER
DENSITIES FROM PATUXENT RIVER BRIDGE, MD.

383045N 764014W

Year	Month	Week	Density gms/liter	Year	Month	Week	Density gms/liter
1963	10	41	1.0094	1964	7	29	1.0037
	10	42	1.0097		7	30	1.0043
	10	43	1.0097		8	31	1.0048
	11	44	1.0096		8	32	1.0051
	11	45	1.0089		8	33	1.0056
	11	46	1.0171		8	34	1.0055
	11	47	1.0110		8	35	1.0056
	11	48	1.0111		9	36	1.0063
	12	49	1.0113		9	37	1.0070
	12	50	1.0114		9	38	1.0077
	12	51	----		9	39	1.0081
	12	52	----		10	40	1.0081
					10	41	1.0090
1964	1	1	----		10	42	1.0099
	1	2	1.0107		10	43	1.0107
	1	3	----		10	44	1.0109
	1	4	1.0103		11	45	----
	2	5	1.0105		11	46	1.0114
	2	6	1.0100		11	47	1.0120
	2	7	1.0095		11	48	----
	2	8	1.0083		12	49	1.0120
	3	9	1.0085		12	50	----
	3	10	1.0071		12	51	1.0126
	3	11	1.0081		12	52	1.0122
	3	12	1.0083				
	3	13	1.0067	1965	1	1	1.0122
	4	14	1.0062		1	2	1.0119
	4	15	1.0054		1	3	1.0119
	4	16	1.0045		1	4	1.0114
	4	17	1.0045		2	5	1.0114
	5	18	1.0041		2	6	1.0108
	5	19	1.0033		2	7	1.0104
	5	20	1.0041		2	8	1.0101
	5	21	1.0037		3	9	1.0098
	5	22	1.0053		3	10	1.0092
	6	23	1.0043		3	11	1.0091
	6	24	1.0044		3	12	1.0084
	6	25	----		3	13	1.0082
	6	26	----		4	14	1.0086
	7	27	----		4	15	1.0079
	7	28	----		4	16	1.0073

TABLE 6. (cont'd)

Year	Month	Week	Density gms/liter
1965	4	17	1.0069
	5	18	1.0061
	5	19	1.0069
	5	20	----
	5	21	----
	5	22	----
	6	23	1.0041
	6	24	1.0044
	6	25	1.0048
	6	26	1.0048
	7	27	----
	7	28	1.0044
	7	29	1.0046
	7	30	1.0046
	8	31	1.0054
	8	32	1.0049
	8	33	1.0051
	8	34	1.0055
	8	35	----
	9	36	1.0061
	9	37	1.0060
	9	38	1.0052
	9	39	1.0068
	10	40	1.0080
	10	41	1.0089
	10	42	1.0084
	10	43	----
	10	44	1.0093
	11	45	1.0104
	11	46	1.0111
	11	47	1.0118
	11	48	1.0119
	12	49	1.0127
	12	50	1.0125
	12	51	1.0125
	12	52	1.0122