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GREAT LAKES WATER TEMPERATURES, 1966 - 1975

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*NOAA Technical Memorandum ERL GLERL-11-1 contains only summary of data; NOAA Technical Memorandum ERL GLERL-11-2 provides all data in microfiche form.

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FIGURE

1. Locations of water temperature recording stations. 1

TABLE

1. Water temperature monitoring station descriptions. 4

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A 10-yr bank of water temperature data has been accumulated from a network of stations located at intervals along the United States shores of the Great Lakes and is presented in various tables. For each station, summaries of hourly, daily, and monthly mean data are included as well as tables of the frequency distribution of daily mean water temperatures on an annual basis.

1. INTRODUCTION

A network of water temperature recording stations was installed on the Great Lakes (fig. 1) to provide a continuous, high frequency record of water temperature data for the purpose of

(a) Defining the short-term and seasonal variations and long-term trends in lake temperature.

(b) Providing a basis for the establishment and quantification of the relationships between water temperature variations and the limnological and meteorological processes which occur in and over the Great Lakes.

(c) Providing a continuum of water temperature data with which to interpret the occasional synoptic or near synoptic lake surveys and short-term local observations.

Figure 1. Location of water temperature recording stations.

* GLERL Contribution No. 90.

During fall 1965 and spring 1966, recording stations were established at 10 locations on the Great Lakes. The number of locations was restricted to two per lake and selection was based on the best capability for measuring the temperature of the open lake from an inshore station, necessary depth, accessibility, and ability to physically withstand the rigors of the environment. The United States stations were complemented by similar recorders operated on the Canadian shores of the Great Lakes by the Atmospheric Environment Service. The Canadian stations were removed when it was felt that Airborne Radiation Thermometer surveys better satisfied existing needs. In spring 1972, stations were established at Lewiston and Cape Vincent, N.Y., to provide data for estimates of heat advection through Lake Ontario. In order to provide for more efficient operation of the St. Lawrence Seaway, especially during periods of ice formation and decay, telephone telemetry equipped stations were established along the St. Lawrence River at Cape Vincent, Clayton, and Ogdensburg, N.Y., in 1972 and 1973 at the request of the St. Lawrence Seaway Development Corporation.

2. COLLECTION OF DATA

2.1 Recording Equipment

The original recorders were Bristol Series P-92663 Dynamaster AC powered analog recorders connected by a three-wire temperature compensated cable to a Bristol 7NA resistance thermometer bulb. Output consisted of an analog trace inked on a strip chart 3 inches (7.6 cm) wide. The horizontal scale was 3 inches (7.6 cm) per 24 hours and the vertical scale was 10°C per inch (2.5 cm). The manufacturer's instrumental accuracy claim was ±0.50°C. Overall system accuracy under the worst conditions was considered to be ±0.50°C.

Since 1972, analog recorders have been replaced by digital recording equipment consisting of Enviro-Labs, Inc., temperature servo systems and temperature probes connected to Stevens Model 7000 digital recorders. Output is on 2 1/8 inches (5.1 cm) wide punched paper tape designed to accomodate four decades of binary coded decimal punching across the tape, 16 bits in parallel. The sensitivity of this instrument is 0.05°C and the manufacturer's instrumental accuracy claim is ±0.15°C. Overall system accuracy under the worst conditions using interchangeable thermistors is ±0.30°C.

2.2 Observations

Each station is tended by a locally contracted observer who maintains the recorder and several times weekly annotates the record with the correct time and manually observed water temperature. The manually observed water temperature readings are made by means of a mercury-in-glass bucket thermometer lowered to the depth of the water temperature recording sensor. Routine calibration checks are made by laboratory personnel in the field on a semi-annual basis and on an emergency basis, as manpower permits, when equipment is in need of repair. With one

exception, sensors are installed at a standard depth of 3 m below International Great Lakes Datum (1955). A depth of 3 m was chosen to make certain that sensors are deep enough to miss random fluctuations of heating and cooling, are accessible from shore, and yet reflect temperature fluctuations in the main lake mass. The station number and location of each sensor is listed in table 1.

3. DATA PROCESSING

Hourly scalings of analog data were converted to digital form and placed on punched cards by means of a Gerber digitizer. Punched paper tapes from digital recorders were processed on a Fischer-Porter tape translater and placed on punched cards. The data from both analog and digital recorders were edited and stored on disk pack for randomaccess capability. Data were also stored on magnetic tape for permanent record archives. The procedure involved manual inspection of observer notes for notification of apparent equipment malfunction. Processed data were then checked against manually observed readings. If manual readings did not verify recorded data, an emergency calibration was made of manual and automatic equipment. If automatic recording equipment was found to be out of calibration, all data were eliminated from official tabulation to the point of the last verification inspection. If the manual equipment was off calibration, it was replaced.

4. DATA PRESENTATION

4.1 Hourly Temperature Data

Monthly summaries of hourly water temperature data have been arranged by 24-hr periods to provide the daily mean and monthly mean temperatures as well as the monthly maximum and minimum average hourly temperatures. This data, a sample of which is shown in Appendix A, is available for each station on microfiche from the National Technical Information Service, Springfield, Va.

4.2 Daily Mean Temperature Data

Appendix B consists of the annual summaries for each station of daily mean water temperatures listed by month. The monthly mean water temperature is listed at the bottom of each monthly column of daily mean temperatures.

4.3 Frequency Distribution of Daily Average Temperatures

Annual tables of the frequency distribution of daily average temperatures are listed by month and are paired by year with the annual summaries of daily mean water temperatures in Appendix B.

Table 1. Water Temperature Monitoring Station Descriptions

Station Number	Latitude & Longitude	Station Location	Sensor Depth Below I.G.L.D. (meters)
		St. Lawrence River	
1029	44°42.4' 75°28.6'	Ogdensburg Bridge and Port Authority slip, Ogdensburg, N.Y.	3
1030	44°41.4' 75°30.8'	Diamond Match Co. outer pier, Ogdensburg, N.Y.	3
1070	44°14.4' 76°07.0'	Potable Water Intake, Bartlett Point, Clayton, N.Y.	16
		Lake Ontario	
2000	44°08.2' 76°20.0'	U.S. Coast Guard Station pier, Cape Vincent, N.Y.	3
2076	43°20.4' 78°43.2'	Olcott Yacht Club, Olcott, N.Y.	3
		Niagara River	
	43°10.4' 79°03.0'	Becker Marina pier, Lewiston, N.Y.	3
		Lake Erie	
3020	42°52.6' 78°53.4'	U.S. Coast Guard dock, Buffalo, N.Y.	3
3079	41°32.7' 82°43.8'	U.S. Coast Guard Station, Marblehead, Ohio	3
		St. Clair River	
4096	43°00.2' 82°25.3'	Dunn Paper Co. dock, Port Huron, Mich.	3
		Lake Huron	
5014	43°50.9' 82°38.5'	Coal dock, outerface, Harbor Beach, Mich.	3
5080	45°46.7' 84°43.2'	State Dock, Mackinaw City, Mich.	3
		Lake Michigan	
7056	42°50.8' 87°49.5'	Coal dock, outerface, Oak Creek Harbor, Wisc.	3
7058	43°02.7' 87°52.8'	North Breakwater, Milwaukee, Wisc.	3
		Lake Superior	
9007	46°45.2' 84°57.9'	Outerface, wooden dock, Whitefish Point, Mich.	3
9040	47°17.0' 88°31.9'	On pier near Calumet Water Works, vicinity of Calumet, Mich.	3

5. DISCUSSION

The determination of a long-term water temperature trend will require many more years of observation as evidenced by the fact that during the 10-yr period of record the coldest and warmest years of record apparently occurred back-to-back in 1972 and 1973, respectively.

The most serious shortcoming of the data set is the lack of continuity. Gaps of a month or moresometimes occur in the data. These are due to limitations on the availability of field personnel to repair storm damaged stations on a timely basis.

In spite of this shortcoming, short-term thermal events, such as the beginning dates of spring warm-up, the frequency and duration of upwellings and downwellings, the beginning dates of winter freeze-up, and significant heat advection episodes may be identified and examined.

The beginning dates of spring warm-up at Whitefish Point on Lake Superior; Mackinaw City, Mich., at the Straits of Mackinac; and Buffalo, N.Y., on Lake Erie usually occur later in spring than at other points on these respective lakes due to the tendency of wind-driven ice fields to persist in these areas. In Appendix B, data for these stations show water temperatures at or near 0°C persisting until as late as May after the severe winter of 1971-1972. But spring warm-up began as early as March at these same locations in 1973 after the mild winter of 1972-1973, during which little ice was formed.

Careful inspection of the frequency distribution of daily average temperatures in Appendix B will also indicate those stations subject to upwelling by the large range of summertime water temperatures recorded. Upwellings are especially noticeable at Olcott, N.Y., on Lake Ontario; Harbor Beach, Mich., on Lake Huron; Milwaukee and Oak Creek Harbor, Wis., on Lake Michigan; and Calumet, Mich., on Lake Superior. The sample hourly water temperature record from Olcott, shown in Appendix A, indicates the duration and intensity of several upwelling events which took place during the latter part of July 1963.

APPENDIX A. Monthly Summary of Hourly Average Water Temperatures

LAKE ONTARIO AT OLCOTT, NEW YORK

STATION 2076 DAY JULY 1973

HOUR	1	2	3	4	5	6	7	8
1	21.9	22.2	20.3	23.9	21.2	21.5	23.5	23.4
2	21.7	22.1	20.0	24.0	21.1	21.4	23.5	23.3
3	21.7	22.1	20.0	23.6	21.1	21.5	23.5	23.0
4	21.8	22.0	20.1	22.8	21.0	21.4	23.5	22.9
5	21.7	21.7	20.2	22.6	20.7	21.5	23.5	22.8
6	21.6	21.5	19.9	23.0	20.6	21.5	23.5	22.7
7	21.5	21.5	20.0	22.9	20.5	21.8	23.5	22.6
8	21.5	21.5	20.0	23.0	20.6	21.9	23.5	22.5
9	21.5	21.4	20.0	22.4	20.8	22.5	23.5	22.4
10	21.4	21.4	20.1	22.4	20.9	22.8	23.9	22.5
11	21.5	21.4	21.7	22.3	21.2	22.9	23.9	22.7
12	21.5	21.7	22.7	22.5	21.2	22.9	23.5	22.9
13	21.7	21.7	22.8	22.4	21.4	23.1	23.4	23.1
14	21.9	21.9	23.5	22.3	21.7	23.4	24.0	23.4
15	22.1	21.8	23.9	22.3	21.9	23.6	24.1	23.8
16	22.3	21.8	23.8	22.3	21.9	23.7	24.1	24.0
17	22.5	21.8	23.9	22.1	21.9	24.0	24.0	24.1
18	22.4	21.7	23.6	21.4	22.1	23.8	23.9	24.1
19	22.4	21.8	22.6	21.5	22.2	23.7	24.0	24.1
20	22.4	21.7	22.2	21.4	22.2	23.6	24.0	24.1
21	22.4	21.7	22.1	21.5	22.0	23.6	24.0	24.0
22	22.4	21.5	22.9	21.5	21.9	23.6	24.0	24.0
23	22.4	21.1	23.2	21.5	21.8	23.5	24.0	24.0
24	22.4	20.9	22.7	21.5	21.5	23.5	23.9	24.0
MEAN	21.9	21.7	21.8	22.4	21.4	22.8	23.8	23.4

HOUR	9	10	11	12	13	14	15	16
1	24.0	22.8	23.1	21.2	21.8	22.0	22.4	22.8
2	24.0	22.5	23.0	21.2	21.8	22.0	22.2	22.6
3	23.8	22.4	22.8	21.1	21.7	21.9	22.4	22.4
4	23.9	22.5	22.6	21.1	21.6	22.0	22.3	22.2
5	23.9	22.4	22.5	21.2	21.4	21.9	22.1	22.2
6	23.8	22.6	22.4	21.0	21.4	21.9	22.2	22.1
7	23.8	22.9	22.2	20.9	21.5	21.9	22.1	22.0
8	23.8	22.9	22.2	20.9	21.5	21.8	21.9	21.9
9	23.8	23.0	22.4	20.7	21.5	21.8	21.9	21.8
10	23.7	23.1	22.4	21.0	21.7	21.9	21.9	21.8
11	23.8	23.1	22.6	21.2	22.1	22.0	22.0	21.8
12	24.0	23.1	22.7	21.1	22.2	22.2	22.0	21.9
13	24.0	23.0	22.8	21.7	22.1	22.4	22.4	22.0
14	24.3	23.2	23.0	21.9	22.2	22.6	22.6	22.0
15	24.5	23.4	23.2	21.9	22.2	22.7	22.7	22.0
16	24.4	23.5	23.3	21.7	22.2	22.9	22.7	22.0
17	24.4	23.5	23.3	21.9	22.2	22.8	22.5	22.1
18	23.7	23.5	23.0	21.9	22.3	22.6	22.3	22.2
19	23.7	23.5	22.7	21.6	22.2	22.7	21.9	22.2
20	23.7	23.5	22.5	21.8	22.1	22.2	22.2	22.1
21	23.7	23.5	22.2	21.7	22.1	22.4	22.2	22.0
22	23.5	23.3	21.9	21.5	22.1	22.4	23.0	22.0
23	23.5	23.2	21.6	21.5	22.1	22.4	23.2	21.9
24	23.2	23.0	21.3	21.7	22.1	22.4	23.0	21.8
MEAN	23.9	23.1	22.6	21.4	21.9	22.2	22.3	22.1

* MEAN BASED ON PARTIAL RECORD

** RECORD NOT AVAILABLE

LAKE ONTARIO AT OLCOTT, NEW YORK

STATION 2076 DAY JULY 1973

HOUR	17	18	19	20	21	22	23	24
1	21.6	9.9	8.7	20.1	21.8	19.3	14.3	7.4
2	21.5	15.1	8.8	20.4	21.5	19.1	16.2	6.9
3	21.6	11.0	8.1	20.5	21.7	19.0	9.5	6.7
4	21.6	8.9	8.8	19.3	21.7	17.3	9.4	6.6
5	21.5	8.3	8.9	18.0	21.3	17.1	10.6	6.5
6	21.3	7.9	8.9	18.3	21.6	15.0	14.7	6.7
7	21.4	8.2	11.9	19.0	21.5	17.0	16.9	6.9
8	21.6	9.3	14.4	19.4	21.6	16.2	16.9	6.5
9	21.6	18.3	15.8	19.5	21.3	15.4	16.0	6.6
10	21.4	18.0	18.0	19.9	21.0	14.8	16.6	6.9
11	21.4	17.7	18.6	20.2	19.1	15.5	12.8	7.1
12	21.5	16.2	20.0	20.2	17.7	16.6	11.9	7.1
13	21.5	16.6	20.6	20.5	16.5	17.2	11.2	7.8
14	21.5	15.0	21.1	20.6	16.5	17.4	10.2	7.9
15	21.9	11.4	20.8	20.9	14.6	17.6	9.3	7.6
16	21.6	10.1	19.5	21.0	11.6	16.4	8.9	7.3
17	20.6	9.7	19.9	21.2	12.7	15.2	8.9	7.1
18	16.6	9.4	20.7	21.4	13.4	12.2	8.5	7.0
19	12.8	8.9	20.5	21.4	13.0	10.8	8.3	7.1
20	10.6	8.4	20.0	21.5	14.5	8.7	8.0	7.1
21	10.7	8.1	20.7	21.5	14.8	8.5	7.7	6.7
22	10.0	7.7	20.5	21.8	18.0	8.5	7.6	6.4
23	9.4	7.9	20.2	21.7	19.2	8.7	7.4	6.2
24	8.8	8.7	19.8	21.8	19.5	8.9	7.3	6.0
MEAN	18.5	11.3	16.5	20.4	18.2	14.7	11.2	6.9

HOUR	25	26	27	28	29	30	31
1	6.2	18.1	20.4	21.4	21.4	21.5	21.2
2	6.0	18.5	20.3	21.1	21.3	21.5	21.0
3	5.7	19.1	20.2	21.4	21.2	21.2	20.7
4	5.9	19.2	20.4	21.4	21.0	21.1	20.6
5	5.9	19.2	20.6	21.3	21.0	21.0	20.5
6	6.0	19.2	20.5	21.3	20.7	20.8	20.4
7	6.2	19.3	20.1	21.3	20.9	20.7	20.2
8	6.5	19.6	20.6	21.3	21.0	20.8	20.4
9	6.3	19.9	20.7	21.4	21.1	21.2	20.6
10	6.2	20.4	20.8	20.8	21.2	21.6	20.8
11	6.0	20.6	20.9	20.5	21.3	21.9	21.0
12	11.0	20.6	21.0	21.2	21.6	22.1	20.9
13	9.9	20.6	21.2	21.5	21.8	22.2	20.9
14	11.0	21.3	21.4	22.0	22.0	22.1	21.1
15	11.3	21.0	21.8	21.6	22.1	22.0	21.1
16	12.1	21.1	22.0	21.7	22.4	22.0	20.6
17	12.9	21.0	22.1	21.4	22.6	21.5	20.5
18	13.0	21.0	21.8	21.2	22.8	21.9	20.5
19	14.1	21.2	21.6	21.5	22.7	22.2	20.7
20	17.1	21.2	21.6	21.7	22.5	22.1	20.8
21	17.5	21.2	21.5	21.6	22.1	22.0	20.7
22	17.6	21.1	21.5	21.5	21.8	21.4	20.7
23	18.1	21.1	21.5	21.5	21.6	21.3	20.8
24	18.1	21.0	21.5	21.4	21.7	21.3	20.0
MEAN	10.4	20.3	21.1	21.4	21.7	21.6	20.7

MAXIMUM FOR MONTH 24.5
MINIMUM FOR MONTH 5.7
MONTHLY MEAN 19.8

APPENDIX B. Annual Summary of Daily Mean Water Temperatures

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**		.7	2.2	5.6	10.9	19.1	21.5	20.5	13.3	9.5	6.8
2	**	**	.7	2.0	5.5	11.3	19.7	21.1	20.5	13.0	9.5	6.6
3	**	**	.9	2.3	5.8	11.5	20.0	21.0	20.4	12.7	9.6	6.5
4	**	**	.7	2.5	5.7	11.7	20.4	20.6	20.1	12.7	9.8	5.9
5	**		.8	2.6	5.6	12.0	20.4	21.2	20.0	12.5	8.5	5.0
6	**	**	.8	2.6	5.8	12.3	20.6	21.6	19.9	12.5	8.4	4.8
7	**	**	1.1	2.7	5.6	12.9	20.6	21.5	19.8	12.3	8.3	4.8
8	**	**	1.6	3.0	5.8	13.1	20.8	21.5	20.0	12.5	8.3	4.9
9	**		1.4	3.1	5.9	13.0	20.3	21.3	19.9	12.7	8.3	5.0
10	**	**	1.1	3.1	5.8	12.9	20.4	21.9	19.7	12.8	8.4	5.1
11	**	**	1.7	3.4	5.9	13.1	20.9	21.3	19.6	12.4	8.5	4.8
12	**	**	1.6	3.7	6.0	13.6	21.1	21.5	19.5	12.1	8.3	4.7
13	**		1.1	4.0	6.0	13.9	21.5	21.4	19.5	12.0	8.1	4.5
14	**	**	1.1	3.8	6.2	14.0	21.4	21.5	19.4	12.1	7.8	4.5
15	**	**	1.8	3.3	6.6	14.1	21.6	21.5	19.0	12.2	7.7	4.4
16	**	**	1.6	3.9	6.4	14.1	21.9	21.0	18.4	12.0	7.6	4.0
17	**		1.5	4.2	6.5	14.4	21.9	21.0	18.4	11.8	7.5	3.9
18	**	**	1.2	4.3	6.4	14.5	21.6	21.2	18.5	11.6	7.3	4.2
19	**	**	1.5	4.4	7.1	14.7	21.4	21.2	18.3	11.5	7.1	4.3
20	**	**	1.8	4.6	7.6	14.8	21.2	21.3	17.6	11.1	6.9	3.9
21	**	**	1.9	5.0	7.9	15.3	21.0	21.1	17.3	10.7	6.8	3.3
22	**	**	1.8	5.0	8.0	15.3	21.2	20.7	17.1	10.7	6.7	3.5
23	**	**	1.8	5.0	8.6	15.7	21.4	20.5	16.8	10.7	6.5	3.2
24	**	**	2.0	5.2	8.9	16.2	21.4	20.3	15.4	10.7	6.5	2.9
25	**	**	2.2	5.3	9.6	16.4	21.2	20.2	15.8	10.8	6.7	2.3
26	**	**	2.1	5.3	10.3	16.8	21.5	19.8	15.4	10.8	7.0	**
27	**	**	2.5	5.2	10.8	17.6	21.6	20.0	15.0	10.6	6.9	1.6
28	**	**	2.4	4.9	11.1	18.1	21.3	20.2	14.8	10.5	6.8	2.1
29	**		2.0	5.1	11.0	18.4	21.3	0.3	14.6	10.5	7.0	1.7
30	**		1.8	5.6	10.6	18.9	21.2	20.4	13.9	10.3	6.8	.9
31	**		1.9		10.9		21.3	20.4		9.7		.9
MEAN	**	**	1.5	3.9	7.4	14.4	21.0	21.0	18.2	11.7	7.7	4.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													
25.0													
24.0													0
23.0													0
22.0													0
21.0							20	20					40
20.0							9	10	6				65
19.0							2	1	9				77
18.0						3			4				84
17.0						1			3				88
16.0									2				93
15.0						3			3				99
14.0						7			2				108
13.0						5			1	2			116
12.0						4				14			134
11.0					2					4			143
10.0					4	1				10			158
9.0					1					1	3		163
8.0					3						10		176
7.0					3						8		187
6.0					7						9	3	206
5.0				9	11							4	230
4.0				6								11	247
3.0			6	8								5	260
2.0			19	7								3	276
1.0												2	297
0.0			6									2	305
-1.0													305
-2.0													305

Station No. 2076, Temperatures, Lake Ontario at Olcott, New York, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	6.9	14.7	19.8	23.7	**	16.0	9.7	3.4
2		**	**	**	6.9	15.0	24.3	24.0	**	16.0	10.1	.6
3	**	**	**	**	6.8	14.6	25.3	22.9	**	15.9	9.6	.8
4	**	**	**	**	7.0	15.0	23.7	22.6	**	16.5	6.4	2.7
5	**	**	**	**	7.4	15.0	15.6	22.9	**	15.3	7.1	1.9
6	**	**	**	**	7.8	16.1	11.2	22.5	**	13.0	7.9	1.9
7	**	**	**	**	7.0	17.4	21.6	23.2	**	13.5	8.3	3.1
8	**	**	**	**	7.8	16.2	22.8	21.4	**	14.4	8.7	5.1
9	**	**		**	8.6	15.9	23.2	22.4	**	15.4	9.4	6.3
10	**	**	**	**	8.1	13.9	24.5	23.3	**	15.9	10.6	5.6
11	**	**	**	**	8.4	11.8	23.9	23.3	**	14.7	11.4	4.2
12	**	**	**	**	8.6	8.2	23.4	22.2	**	12.6	10.3	4.2
13	**	**		**	8.1	8.6	25.2	**	**	13.2	9.4	3.9
14	**	**	**	5.4	8.3	13.3	24.2	**	14.7	10.9	8.8	3.1
15	**	**	**	5.3	7.9	16.2	15.0	**	17.4	10.5	9.4	2.3
16	**	**	**	5.0	7.6	17.2	13.8	**	17.0	12.1	9.2	2.3
17		**		5.2	8.3	18.0	21.8	**	18.8	11.2	9.0	2.6
18	**	**	**	5.3	8.3	16.7	22.0	**	19.2	11.6	9.6	3.3
19	**	**	**	5.4	9.3	17.1	22.4	**	18.5	9.4	**	2.4
20	**	**	**	5.2	9.9	18.1	21.4	**	15.5	9.4	**	1.3
21		**		5.6	9.9	18.7	21.7	**	10.8	9.9	**	.6
22	**	**	**	6.2	11.0	16.4	22.1	**	11.0	11.6	**	.1
23	**	**	**	4.8	10.9	19.1	22.2	**	15.2	12.4	**	0.0
24	**	**	**	5.7	9.7	22.4	21.7	**	15.4	12.5	**	0.0
25	**	**		6.8	12.6	23.7	22.3	**	15.2	12.6	**	0.0
26	**	**	**	7.5	14.7	22.9	23.2	**	15.2	11.3	**	0.0
27	**	**	**	5.4	13.3	22.7	22.4	**	16.4	10.7	**	0.0
28	**	**	**	4.9	13.9	22.9	22.9	**	16.3	11.6	**	.1
29	**		**	5.4	13.5	23.6	23.7	**	16.5	10.9	**	0.0
30	**		**	6.3	12.9	23.0	22.7	**	14.8	9.9	4.9	0.0
31	**		**		13.5		22.5	**		9.6		.1
MEAN	**	**	**	5.6	9.5	17.1	21.7	22.9	15.8	12.6	8.9	2.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0							2						2
24.0							3	1					6
23.0						3	6	4					19
22.0						4	10	6					39
21.0							5	1					45
20.0													45
19.0						1	1		1				48
18.0						3			2				53
17.0						3			2				58
16.0						5			3	3			69
15.0						4	2		5	4			84
14.0					1	2			2	2			91
13.0					4	2	1			3			101
12.0					2					5			108
11.0						1	1		1	5	1		118
10.0									1	4	3		127
9.0										5	8		144
8.0					8	2					3		157
7.0				1	7								167
6.0				3	3							1	175
5.0				11								2	188
4.0				2							1	2	193
3.0												5	198
2.0												5	203
1.0												3	206
0.0												13	219
-1.0													219
-2.0													219

Station 3020, Temperatures, Lake Erie at Buffalo, New York, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.1	.9	1.3	1.5	6.4	14.1	24.5	23.9	24.2	15.0	10.5	6.6
2	4.4	.9	1.2	1.6	6.8	14.6	25.0		24.4	14.7	10.4	5.3
3	3.8	.9	1.6	1.7	6.7	14.8	25.7	**	24.1	15.0	9.5	**
4	3.3	1.0	1.8	1.7	7.2	16.6	25.5	**	23.9	15.0	8.3	**
5	3.1	1.4	1.8	1.6	8.0	--	25.1	**	23.6	14.3	7.8	**
6	3.3	1.3	1.6	1.6	8.3	17.5	24.8	**	22.6	13.9	8.2	**
7	3.0	1.4	1.5	1.4	7.7	17.6	24.8	**	22.1	13.9	8.6	**
8	2.2	1.2	1.5	1.6	7.6	18.1	24.7	**	22.3	14.3	10.2	**
9	1.4	1.2	1.6	1.5	7.6	18.1	24.6	24.6	22.4	14.6	10.6	**
10	1.6	1.2	1.8	1.5	6.9	16.8	24.7	24.6	22.4	15.0	11.3	**
11	.7	1.2	1.9	1.6	7.2	16.1	24.6	24.3	22.3	14.0	11.2	**
12	.5	1.2	1.7	1.6	8.2	15.7	25.8	23.8	22.3	13.4	11.0	**
13	**	1.4	1.8	**	7.6	16.6	25.8	23.6	22.0	13.0	10.6	**
14	.9	1.2	1.9	**	7.8	17.4	25.5	23.2	21.9	13.6	8.9	**
15	.9	1.3	2.0	**	8.3	18.1	24.8	23.1	21.0	14.1	8.4	**
16	.9	1.1	2.0	**	8.5	18.4	24.6	23.4	19.9	13.5	8.5	**
17	.8	.9	2.0	**	10.0	18.6	24.8	23.4	19.8	12.9	8.8	5.3
18	1.0	.9	2.3	**	10.6	17.9	24.8	23.7	19.8	12.5	8.8	4.8
19	.9	1.1	2.2	**	11.5	17.9	24.8	23.7	19.7	12.1	8.3	3.8
20	.9	1.0	2.0	**	12.6	18.8	24.3	23.4	19.3	11.8	8.1	3.6
21	1.0	1.0	2.1	**	13.1	19.3	23.7	23.1	19.0	12.1	8.2	3.2
22	1.1	1.0	2.1	**	13.4	19.3	23.9	23.3	18.8	12.2	8.2	3.2
23	1.1	1.1	2.4	**	13.2	19.3	23.9	23.4	18.0	11.9	8.4	2.7
24	1.1	1.2	1.9	**	13.7	20.5	24.2	22.8	16.9	11.8	8.5	2.6
25	1.1	1.2	1.5	**	**	21.7	24.7	22.4	16.1	11.8	8.7	2.5
26	.9	1.4	1.4	**		22.2	24.7	22.2	16.2	11.8	8.4	1.9
27	.9	1.4	1.4	**	**	23.0	24.5	22.6	16.6	11.8	8.2	1.2
28	.9	1.5	1.3	**	15.8	23.1	24.4	22.9	16.5	12.0	8.4	**
29	.9		1.4	**	15.2	23.6	24.3	23.5	16.3	11.9	7.4	**
30	.9		1.6	**	14.3	24.4	24.0	23.9	15.6	11.1	7.6	**
31	.9		1.1		14.6		23.8	23.9		10.7		**
MEAN	1.6	1.2	1.7	1.6	10.0	18.6	24.7	23.4	20.3	13.1	9.0	3.6

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
													3
25.0							7						7
24.0						1	20	3	3				34
23.0						3	4	16	2				59
						1							73
21.0						1		5	2				76
20.0						1							77
19.0						3			6				86
18.0						6			2				94
17.0						5							99
16.0					2	4			6	4			109
15.0					2	1			1	6			117
14.0						3							123
13.0					4					6			138
12.0					1					6	3		145
11.0					1					8	5		157
10.0					2					1	1		165
9.0											18		166
8.0					5								183
7.0					7						3		199
6.0					4							1	204
5.0												1	206
4.0												4	209
3.0	2												
2.0	1		9									3	218231
1.0	8												
0.0	14	235	22	12								2	298317
-1.0													317
-2.0													317

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	3.6	9.3	16.0	23.6	23.1	24.4	15.3	9.8	7.7
2	**	**	.4	4.0	8.6	15.6	23.9	22.5	24.5	15.2	**	7.7
3	**	**	.6	3.8	9.0	15.3	24.2	22.5	23.7	14.9	**	7.7
4	**	**	1.6	3.6	9.2	15.3	25.3	22.2	23.0	15.2	**	7.7
5	**	**	2.4	4.0	9.2	15.4	25.6	22.4	22.1	14.4	**	7.7
6	**	**	1.6	3.8	10.8	13.7	23.4	22.3	21.5	14.0	**	7.7
7	**	**	.4	3.7	11.0	14.8	24.3	22.2	21.4	13.7	6.9	7.8
8	**	**	.2	3.4	9.9	16.6	25.7	22.5	21.6	13.9	7.3	**
9	**	**	**	4.3	9.2	17.3	24.8	22.7	22.2	14.1	7.7	**
10	**	**	.4	5.2	9.2	17.8	21.2	22.7	21.9	14.3	7.6	**
11	**	**	.8	5.1	9.4	17.7	23.6	22.5	21.9	13.9	7.5	**
12	**	**	1.4	**	9.0	17.3	19.5	22.4	22.0	13.8	7.7	**
13	**	**	2.0	**	9.0	17.1	18.6	22.3	21.7	13.9	7.6	**
14	**	**	2.2	**	9.6	17.5	22.7	22.0	21.8	14.0	**	**
15	**	**	2.4	**	10.3	17.8	23.2	22.0	20.5	14.2	7.6	**
16	**	**	2.2	**	10.6	18.2	23.0	22.4	20.0	13.6	7.6	**
17	**	**	2.2	6.5	11.8	19.6	22.9	22.3	20.0	13.0	7.6	**
18		**	3.1	6.8	11.5	19.7	23.0	22.2	20.0	12.6	7.6	
19	**	**	3.1	7.8	11.5	19.7	23.5	22.5	20.1	11.4	7.6	**
20	**	**	3.0	8.3	12.4	19.5	23.1	22.7	19.5	10.6	7.6	8.7
21	**	**	3.6	8.6	12.3	20.7	22.8	22.9	19.3	10.9	7.7	8.7
22		**	4.1	**	12.7	20.4	22.2	22.7	19.2	11.0	7.7	8.8
23	**	**	4.6	9.6	12.3	21.5	22.1	22.4	17.6	11.0	7.7	8.8
24	**	**	4.5	9.8	12.7	22.1	22.4	**	16.9	11.0	7.7	8.7
25	**	**	3.5	9.8	14.5	22.6	22.3	21.9	17.8	10.8	7.7	8.7
26		**	2.6	9.1	14.6	22.3	22.8	21.8	18.0	10.5	7.7	8.7
27	**	**	2.1	8.8	13.4	23.3	23.1	22.0	**	**	7.7	8.6
28	**	**	2.1	8.6	14.9	23.2	22.7	22.9	**	**	7.7	8.7
29	**		2.6	9.3	15.6	23.7	23.4	22.9	16.4	**	7.7	8.7
30			3.1	**	16.0	24.0	22.9	23.5	15.9	**	7.7	8.7
31	**		3.2		15.9		23.7	23.8		9.9		8.7
MEAN	**	**	2.3	6.4	11.5	18.9	23.1	22.5	20.5	13.0	7.7	8.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0							3						3
24.0						1	3		2				9
23.0						3	12	3	2				29
22.0						3	10	25	3				70
21.0						1	1	2	7				81
20.0						-			5				88
19.0						4	1		3				95
18.0						1	1		1				99
17.0						7			2				108
16.0					1	2			2				113
15.0					2	4			1	3			123
14.0					3	1				7			134
13.0					1	1				7			143
12.0					5					1			149
11.0					4					4			157
10.0					3					4			164
9.0				5	11					1	1		182
8.0				4	1							12	199
7.0				1							22	7	229
6.0				2							1		232
5.0				2									234
3.0			3	3									240
2.0			7	6									253
			10										263
1.0			3										266
0.0			6										272
-1.0													272
-2.0													272

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.6	.6	.8	**	**	**	22.8	22.1	21.9	14.0	9.3	3.8
2	2.9	.6	1.0	**	**	**	23.1	21.2	22.1	13.6	7.4	2.6
4	2.8	.7	.9	**	**	**	22.4	20.6	21.9	13.9	6.2	1.5
5	2.5	.7	.7	**		**	22.2	21.6	21.7	14.6	5.4	2.1
6	2.2	.6	.7	**	**	**	21.9	21.9	21.1	13.5	6.9	3.1
7	2.4	.6	.7	**	**	13.2	22.3	22.5	20.3	12.4	7.5	4.1
	1.9	.8	.7	**	**	13.2	21.9	22.4	19.8	12.8	8.4	5.6
8	.8	.8	.7	**	**	13.6	21.9	22.0	20.1	13.5	9.3	6.8
9	.7	1.1	.6	**	**	12.5	21.5	21.9	20.5	14.4	9.5	6.8
10	.8	.9	.7	**	**	13.3	21.7	21.1	20.3	14.8	10.2	4.8
11	.6	1.5	.8	**		13.7	22.2	20.2	20.4	13.5	9.3	2.8
12	.7	1.7	1.3	**	**	13.7	21.6	20.1	20.2	12.6	8.5	2.3
14	.6	1.4	2.6	**	**	13.8	21.7	20.3	20.2	13.0	7.9	2.0
15	.6	1.5	3.0	**	**	13.7	21.4	20.3	20.0	13.9	7.6	2.2
	.6	1.6	3.4	**		14.2	20.5	21.0	17.5	14.3	6.5	2.8
17	.6	1.0	1.3	**	**	14.0	20.5	21.0	17.2	13.0	7.1	3.4
18	.6	.7	1.6	**	**	15.6	20.9	21.2	17.8	12.3	7.9	3.4
	.6	.6	3.0	**	**	15.8	21.1	21.3	18.2	11.5	8.1	2.8
19	.7	.6	2.8	**		15.2	20.7	20.6	18.5	11.0	6.1	1.8
20	.6	.7	2.5	**	**	15.7	19.2	20.8	17.6	10.6	5.8	2.6
21	.6	.7	2.9	**	**	16.8	20.1	20.8	17.1	10.4	6.6	2.5
22	.6	.7	3.1	**	**	17.7	20.7	20.9	17.2	11.1	7.1	2.0
23	.7	.8	3.8	**	**	17.8	20.8	20.1	16.2	11.2	7.6	1.1
24	.6	.6	3.4	**	**	18.8	21.1	19.8	14.9	11.1	8.1	1.3
25	.7	.7	2.3	**	**	18.8	21.6	19.7	15.0	10.0	8.5	1.4
26	.6	.7	2.4	**	**	17.2	22.0	19.8	15.0	10.6	8.1	1.2
27	.7	.7	2.2	**		19.6	21.8	20.5	14.9	10.4	8.2	1.6
28	.7	.7		**	**	20.5	22.1	20.7	14.8	10.8	7.1	**
29	.7		2.6	**	**	21.8	21.5	21.1	14.9	10.2	5.4	**
30	.7		3.1	**	**	22.2	21.4	21.0	14.3	8.8	4.8	**
31	.7		3.1		**		22.4	21.0		8.9		**
MEAN	1.1	.9	2.0	**	**	16.1	21.5	21.0	18.4	12.2	7.5	2.9

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0							1						1
22.0						1	8	4	1				15
21.0						1	14	12	4				46
20.0						1	7	12	8				74
19.0						1	1	3	1				80
18.0						2			2				84
17.0						3			6				93
16.0						1			1				95
15.0						4			2				101
14.0						2			5	5			113
13.0						8				8			129
12.0						1				4			134
11.0										5	1		139
10.0										7	4		147
9.0													151
8.0													
7.0										2	5	2	160169
6.0											3	1	176
5.0													180
												2	183
3.0	1		8								1	4	196
1.00	5		9									11	196
0.0	1	7	4									7	196
	24	21	10										196
-1.0													196
-2.0													196

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.2	.4	1.6	2.5	7.9	14.0	20.9	21.9	22.2	13.6	8.6	3.7
2	1.1	.6	1.4	2.6	8.8	14.8	19.4	21.0	21.7	13.0	7.0	2.6
4	1.1	.8	1.7	3.2	8.2	12.4	13.0	20.0	22.2	13.7	5.4	1.6
5	1.0	.7	2.1	4.3	8.3	11.2	17.5	20.5	21.2	14.1	4.5	1.3
	.9	.6	1.9	3.9	9.0	12.5	20.4	21.0	20.2	13.2	3.8	1.2
6	1.2	.8	1.5	3.5	9.8	12.8	13.8	21.9	19.5	12.1	4.2	2.1
7	.6	.9	.7	4.0	9.3	11.3	15.0	21.6	19.2	12.4	5.0	3.0
8	.4	.8	.6	4.4	8.2	12.6	18.7	22.2	19.6	13.3	6.8	5.3
9	.4	.9	.8	4.4	7.4	13.5	20.0	**	19.7	14.5	7.0	4.8
10	.4	.8	.9	4.5	7.2	13.7	13.8	**	19.9	13.9	8.3	3.5
12	.6	1.4	1.1	5.9	6.8	15.2	18.5	20.2	20.0	13.0	7.4	2.4
13	.7	1.7	1.0	6.8	7.1	15.9	21.0	20.3	20.1	12.3	6.8	1.8
14	.6	1.2	2.2	7.2	7.8	13.0	21.4	20.7	20.4	11.9	5.7	1.6
15	.7	1.0	3.2	7.8	8.8	12.1	22.4	21.6	17.2	12.7	5.7	1.7
16	.6	1.2	2.8	7.8	10.1	11.2	21.5	21.8	15.3	13.9	5.6	1.7
17	.5	.8	2.2	8.8	10.1	12.5	22.2	17.9	15.3	12.4	5.6	1.9
	.5	.4	3.6	9.0	10.1	14.0	22.3	18.1	16.4	11.7	6.5	2.0
18	.9	.3	5.9	9.6	10.3	15.5	20.7	19.8	17.3	10.8	6.5	2.2
19	.7	.5	4.1	8.6	10.5	16.1	20.8	20.5	18.3	11.0	5.4	1.2
20	.7	.5	3.5	9.8	10.5	12.9	19.8	20.8	17.7	11.1	4.4	1.0
21	.6	.5	3.8	9.7	11.6	13.6	20.2	20.8	16.8	10.7	4.1	1.1
22	.7	.5	4.5	9.6	11.6	16.1	20.8	20.2	16.4	10.6	4.6	1.3
23	.7	.4	4.6	9.5	12.5	15.9	21.2	19.8	15.3	9.8	6.2	1.2
24	.7	.5	3.9	8.8	11.6	15.2	21.9	19.4	14.1	9.7	6.7	1.2
25	.6	.5	3.2	8.7	9.8	18.3	21.5	19.6	13.8	9.8	7.6	1.1
26	.7	.7	2.5	7.6	10.5	15.2	21.8	20.0	14.0	9.6	7.3	1.0
27	.7	.6	1.4	5.0	10.5	17.5	21.5	20.3	14.2	10.0	7.3	1.0
28	.8	1.1	1.5	5.1	12.8	20.3	21.3	20.8	14.9	10.3	6.6	1.1
29	.6		2.3	6.6	12.8	18.9	21.1	20.9	14.7	9.9	4.6	1.3
30	.6		2.1	7.9	12.2	20.3	20.8	20.7	14.1	8.6	4.6	1.5
31	.4		2.4		13.6		21.8	21.5		8.3		
MEAN	.7	.8	2.4	6.6	9.9	14.6	19.9	20.5	17.7	11.7	6.0	1.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							3	1	2				6
21.0							11	8	2				27
20.0						2	8	14	4				55
19.0							2	4	5				66
18.0						2	2	1	1				72
17.0						1	1	1	3				79
16.0						6			3				83
15.0						3	1		3				93
14.0									6	2			104
13.0					5	4	3		1	8			121
12.0					3	7				5			138
11.0						3				4			148
10.0					6					5			159
8.0				6	5					5			175
7.0				4	5					2	2		188
6.0				5	5						6		204
				2	1						7		214
4.0			1	3							7	1	225
3.0			3	5							7	1	242
2.0			6	3							1	3	255
1.0	1		8	2								5	271
	4	6	9									21	311
0.0	26	22	4										363
-1.0													363

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.5	.4	.3	.4	4.7	10.4	18.5	20.5	18.3	13.0	6.9	3.4
2	.8	.4	.3	.8	4.7	9.4	19.9	20.3	18.9	12.7	6.6	3.3
3	.5	.5	.3	.9	4.2	10.1	20.3	20.0	17.8	12.1	5.1	3.3
4	.5	.5	.3	.9	4.3	10.9	19.8	20.2	16.0	11.5	4.2	3.3
5	.4	.4	.3	1.2	5.3	10.4	18.9	20.2	16.9	11.2	4.0	3.3
6	.4	.4	.3	1.6	5.7	10.2	18.1	20.2	17.4	11.0	4.5	3.2
7	.4	.4	.4	1.7	5.6	11.0	18.8	20.2	17.6	11.2	4.9	3.3
8	.5	.4	.4	2.3	5.6	11.6	19.4	18.8	18.1	11.4	5.6	3.3
9	.4	.4	.4	2.4	5.2	11.6	19.0	18.5	18.5	10.6	5.3	3.4
10	.4	.5	.4	2.1	5.0	11.6	19.9	18.5	18.6	11.6	5.4	3.3
11	.4	.5	.4	2.4	6.0	11.8	20.3	19.1	17.4	10.9	5.3	3.3
12	.5	.5	.4	2.9	6.3	11.1	20.5	19.5	15.9	10.3	4.9	3.3
13	.5	.5	.4	2.9	6.6	12.5	21.2	19.4	17.1	10.5	4.4	3.3
14	.4	.5	.4	2.4	6.8	13.0	20.8	16.8	16.7	10.1	4.1	3.3
15	.5	.5	.5	3.2	6.9	13.1	19.9	18.2	16.2	10.2	3.9	3.3
16	.4	.5	.5	4.1	7.0	13.2	20.4	17.9	16.6	10.1	4.1	3.3
17	.5	.4	.5	4.5	7.1	13.6	20.1	18.2	16.9	9.5	4.5	3.3
18	.5	.4	.4	5.1	7.3	14.2	20.4	18.6	17.5	9.2	4.6	3.3
19	.3	.5	.3	5.5	6.7	14.1	20.5	19.1	17.7	8.9	4.0	3.3
20	.5	.5	.3	5.4	7.0	15.1	19.8	18.9	16.0	9.2	4.0	3.3
21	.5	.4	.4	5.0	7.7	14.1	20.1	18.6	14.8	9.5	3.7	3.3
22	.5	.4	.4	5.3	8.9	14.2	19.7	16.8	14.6	9.7	3.9	3.3
23	.5	.4	.5	5.6	9.3	15.9	19.8	14.0	14.9	9.0	4.5	3.3
24	.4	.4	.4	5.6	8.4	17.0	20.3	16.5	14.7	8.6	4.9	3.5
25	.4	.4	.4	6.0	8.9	17.8	20.5	16.6	14.6	8.8	5.1	3.5
26	.6	.5	.4	5.8	9.3	17.6	20.6	17.4	14.5	8.7	5.1	3.5
27	.4	.4	.4	4.7	9.9	18.0	18.1	17.7	14.1	8.9	5.1	3.5
28	.4	.3	.4	4.8	10.2	18.4	16.5	18.5	13.5	9.2	4.0	3.5
29	.5		.4	5.0	9.6	**	19.5	18.4	12.9	8.3	3.3	3.5
30	.5		.4	5.3	9.9	**	20.2	16.5	12.9	7.8	3.3	3.5
31	.5		.4		10.1		20.6	18.6		7.4		3.5
MEAN	.5	.4	.4	3.5	7.1	13.3	19.8	18.5	16.3	10.0	4.6	3.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0							14	7					1
20.0							10	4					22
19.0							10	4					35
18.0						2	5	12	5				60
17.0						3	5	13	7				73
16.0							1	4	7				85
15.0						2			1				88
14.0						4		1	1				100
13.0						1			2	2			106
12.0						6			2	6			111
11.0					2	6				6			123
10.0					5	5				7			137
9.0						1				7			150
8.0					3	1				6			159
7.0					6						2		166
6.0				1	6						8		175
4.0				14	6						[illegible]		199
3.0				1	4						155	31	259
3.0				1								31	259
2.0				7									266
1.0	1			3									270
0.0	30	28	31	4									363
-1.0													363
-2.0													363

Station No. 7058, Temperatures, Lake Michigan at Milwaukee, Wisconsin, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.5	.4	.2	**	**	**	**	**	**	**	**	**
2	2.6	0.0	.4	**	**	**		**		**		**
3	2.5	0.0	.8	**		**	**	**	**	**	**	**
4	2.0	0.0	1.1	**	**	**	**	**	**	**	**	**
5	1.9	0.0	1.1	**	**	**	**	**	**	**	**	**
6	1.9	0.0	.4	**	**	**	**	**		**		**
7	1.4	0.0	.1	**		**		**	**	**	**	**
8	.8	0.0	.2	**	**	**	**	**	**	**	**	**
9	.8	0.0	.8	**	**	**	**	**	**	**	**	**
10	.8	0.0	1.1	**	**	**	**	**	**	**	**	**
11	.5	.3	1.2	**		**		**	**	**	**	**
12	.5	.5	1.5	**	**	**	**	**	**	**	**	**
13	.5	.5	1.4	**	**	**	**	**	**	**	**	**
14	.7	.2	1.9	**	**	**	**	**		**		**
15	.9	.4	2.2	**		**		**	**	**	**	**
16	.9	.4	1.7	**	**	**	**	**	**	**	**	**
17	.9	.1	2.7	**	**	**	**	**	**	**	**	**
18	1.0	0.0	4.6	**	**	**	**	**		**		**
19	.9	0.0	3.7	**		**		**	**	**	**	**
20	.9	0.0	3.1	**	**	**	**	**	**	**	**	**
21	.9	0.0	3.4	**	**	**	**	**	**	**	**	**
22	.8	0.0	**	**	**	**	**	**	**	**		**
23	.8	0.0		**		**	**	**	**	**	**	**
24	.9	.1	**	**	**	**	**	**	**	**	**	**
25	.8	0.0	**	**	**	**	**	**	**	**	**	**
26	.8	0.0	**	**	**	**		**		**		**
27	.9	.1		**		**	**	**	**	**	**	**
28	1.0	.1	**	**	**	**	**	**	**	**	**	**
29	1.2		**	**	**	**	**	**	**	**	**	**
30	1.0		**	**		**		**		**		**
31	.9		**		**		**	**		**		**
MEAN	1.1	.1	1.6	**		**		**		**		**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0													0
11.0													0
10.0													0
9.0													0
8.0													0
7.0													0
6.0													0
5.0													0
4.0			1										1
3.0			3										4
2.0	4		2										10
1.0	7		8										25
0.0	20	28	7										80
-1.0													80
-2.0													80

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1									**	12.4	6.0	.1
2									**	12.6	5.8	.3
3									**	12.0	6.1	0.0
4									15.7	11.7	5.1	0.0
5									15.5	10.6	4.7	1.5
6									15.7	11.1	3.9	2.0
7									16.2	11.7	4.5	2.0
8									16.1	12.0	**	1.4
9									16.5	12.1	4.8	1.6
10									16.4	11.3	5.4	1.6
11									15.5	10.3	5.0	.4
12									15.8	9.8	4.8	1.4
13									16.8	10.5	3.6	.1
14									15.9	10.5	3.2	1.2
15									15.4	10.4	3.0	1.9
16									15.4	9.1	1.9	.4
17									15.5	9.4	4.3	0.0
18									15.9	8.6	3.4	0.0
19									16.0	8.6	3.2	0.0
20									15.8	9.0	1.9	.5
21									15.8	8.6	1.2	.8
22									14.9	8.4	.9	.2
23									13.9	8.0	2.8	**
24									13.4	8.2	3.9	0.0
25									12.8	8.6	4.2	.2
26									13.5	8.8	4.2	.8
27									13.2	8.4	4.0	.7
28									13.4	8.5	3.0	.1
29									13.2	7.4	2.9	.6
30									12.2	6.6	1.4	.6
31										7.2		.4
MEAN									15.1	9.8	3.8	.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
25.0													0
23.0													0
22.0													0
21.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0							6						6
14.0							12						18
13.0													18
12.0							6						24
11.0							2		4				30
10.0									5				35
9.0													35
8.0									4				39
7.0									10				49
6.0													49
5.0									1	2			52
3.0										4			56
2.0										8			64
1.0										8			72
0.0											2		74
-1.0										4	7		85
-2.0										1	21		107
-3.0													107
-4.0													107

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1966

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1									17.3	12.4	5.3	.6
2									17.1	12.2	3.3	.3
3									15.8	12.8	2.8	.3
4									16.3	12.4	3.1	.4
5									15.8	11.4	3.8	.5
6									16.0	12.3	3.9	.7
7									16.8	13.2	4.4	.6
8									17.5	13.5	3.8	.5
9									18.0	13.3	3.1	.4
10									17.8	12.2	3.6	.4
11									16.7	11.2	3.4	.4
12									17.5	10.9	2.1	.4
13									17.0	11.2	2.4	.4
14									15.8	11.4	3.4	.4
15									12.5	9.8	3.2	.8
16									14.4	7.0	3.4	.8
17									15.0	7.0	3.3	.7
18									15.9	7.4	3.2	.4
19									16.4	8.2	2.8	1.4
20									16.1	8.2	2.8	1.1
21									15.2	8.5	3.1	.5
22									14.9	8.5	4.1	.4
23									14.2	7.7	4.4	.3
24									13.8	7.3	3.9	.2
25									13.1	7.3	4.2	.2
26									12.8	7.7	4.2	.2
27									13.4	8.0	4.0	.4
28									13.6	7.5	3.6	.7
29									13.1	6.9	2.7	.3
30									12.5	5.9	2.3	.4
31										6.4		.4
MEAN									15.4	9.7	3.5	.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0									1				1
17.0									6				7
16.0									6				13
15.0									6				19
14.0									3				22
13.0										3			30
12.0									3	6			39
11.0										4			43
10.0										1			44
9.0										1			45
8.0													50
7.0										5			58
6.0										2			60
5.0										1	1		62
4.0											6		68
3.0											16		84
2.0											7	2	93
1.0												29	122
0.0													122
-1.0													122
-2.0													122

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.2	**	**	1.7	5.9	10.1	17.1	21.8	20.6	16.5	11.3	4.8
2	.1	**	**	1.4	6.1	10.4	17.2	22.1	20.3	16.4	11.8	4.7
3	.5	**	**	1.1	5.5	11.0	17.3	22.2	20.1	16.6	11.1	4.7
4	.7	**	**	2.5	6.3	11.1	17.3	22.4	20.3	16.7	13.5	4.7
5	.8	**	**	1.5	6.3	11.7	19.0	22.7	20.3	16.8	13.5	4.7
6	.4	**	**	1.1	6.3	11.9	18.3	22.7	20.1	16.3	10.2	4.7
7	.6	**	**	1.1	6.2	12.1	18.5	22.7	19.8	15.8	10.2	4.4
8	0.0	**	**	1.3	5.9	12.1	18.7	22.8	19.6	15.6	9.7	4.5
9	.3	**	**	1.3	6.0	12.2	19.4	22.9	19.6	15.5	9.4	4.5
10	.5		**	2.3	6.4	**	18.4	22.5	19.0	15.5	9.2	4.1
11	.6	**	**	1.8	6.3	**	18.4	22.1	18.8	15.3	9.2	3.7
12	.5	**	**	2.0	6.3	**	18.7	22.4	19.0	15.0	9.3	3.9
13	.3	**	**	2.0	6.6	**	18.9	22.5	19.2	15.0	8.8	4.3
14	.4		**	2.3	6.9	**	19.0	22.5	19.1	14.6	8.6	4.0
15	.6	**	**	2.5	7.0	**	19.0	22.4	19.0	14.5	8.0	1.9
16	.7	**	**	2.7	6.9	**	19.0	22.1	**	14.7	7.5	3.4
17	.5	**	**	2.8	7.1	**	19.4	22.1	**	14.9	7.2	3.4
18	.7	**	**	3.1	7.2	**	19.6	22.0	**	14.3	7.2	3.5
19	.6	**	**	3.2	7.6	**	19.6	22.0	**	14.0	7.1	3.8
20	.4	**	**	3.4	7.8	**	19.7	22.0	**	13.5	6.6	3.8
21	.1	**	**	4.3	7.8	**	19.8	22.0	**	13.4	6.6	4.0
22	0.0		**	4.1	7.9	**	20.2	21.5	**	13.2	6.6	4.0
23	0.0	**	**	4.1	8.0	**	20.0	21.5	18.7	13.0	6.5	3.6
24	.2	**	**	4.1	8.3	14.8	20.4	21.7	18.2	13.1	6.5	3.2
25	.3	**	**	4.1	8.6	14.7	20.8	21.8	18.0	13.0	6.5	3.1
26	.4		**	4.5	8.9	14.9	21.4	22.0	17.7	12.6	6.5	2.7
27	.4	**	**	4.8	8.9	15.8	21.4	21.7	17.5	12.3	6.0	2.8
28	0.0	**	**	4.8	9.5	16.1	21.4	21.6	17.2	12.0	5.5	2.4
29	.1		**	5.5	9.7	16.1	21.4	21.6	17.1	11.8	5.5	2.2
30	.5		**	5.5	9.7	16.3	21.6	21.4	16.9	11.6	5.5	2.2
31	.2		**		9.7		21.8	20.9		11.3		2.0
MEAN	.4		**	2.8	7.4	13.2	19.4	22.1	19.0	14.3	8.2	3.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							6	21					21
21.0							4	9					35
20.0								1	6				47
									8				63
19.0							9		4				76
18.0							4		4				84
16.0						1			1	7			94
15.0						3				6			102
14.0													111
13.0						3				6			117
12.0						4				3			123
11.0											4		134
10.0						2					6		139
9.0					4						2		149
8.0					5								156
7.0											4		167
6.0					7								
5.0				7	132						83		188195
4.0				4								13	215
3.0													
2.0				7								126	231244
1.0				9									
0.0	31			1									253285
-1.0													285
-2.0													285

Station No. 2076, Temperatures, Lake Ontario at Olcott, New York, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.5	.2	**	**	**	**	**	**	18.0	14.5	8.1	1.4
2	.2	.4	**	**	**	**	**	**	**	14.3	8.3	1.0
3	.9	.2	**	**	**	**	**	**	**	14.1	8.1	1.2
4	.8	.2	**	5.4	**	**	**	**	**	14.0	8.0	.8
5	.2	.3	**	5.3	**	**	**	**	**	14.0	5.8	1.0
6	.4	.4	**	5.4	8.5	**	**	21.4	**	13.9	4.9	1.3
7	.2	.4	**	4.4	7.8	**	**	21.4	20.3	13.5	5.6	1.4
8	.2	.4	**	4.2	7.5		**	21.5	20.2	9.7	6.2	1.6
9	.2	.4	**	4.0	7.6	**	**	21.5	20.0	9.0	6.2	1.6
10	.4	.3	**	4.4	8.1	**	**	20.4	19.2	9.7	5.7	1.3
11	.2	.4	**	2.8	8.4	**	**	20.1	15.7	9.1	6.5	1.8
12	.2	**	**	3.2	8.6	**	**	20.1	7.6	10.5	7.3	1.9
13	.2	**	**	3.8	8.9	**	**	21.4	6.2	10.5	5.8	2.3
14	.4	**	**	4.0	9.4	**	**	20.9	**	10.8	4.4	1.6
15	.6	**	**	4.0	9.4	**	**	21.1	**	10.8	4.5	.8
16	.3	**	**	**	10.0	**	**	21.1	**	11.8	2.5	.3
17	.1	**	**	**	11.1	**	**	22.2	**	11.9	2.9	.7
18	.2	**	**	**	10.5	**	**	21.1	18.4	10.2	2.4	1.6
19	.3	**	**	**	10.7	**	**	20.8	19.3	10.2	2.1	2.3
20	.3	**	**	**	10.9	**	**	20.8	19.1	9.8	1.6	2.1
21	.2	**	**	**	10.2	**	**	20.8	19.3	9.8	2.0	2.2
22	.6	**		**	10.0	**	**	17.8	18.4	9.8	2.6	2.9
23	1.7	**	**	**	8.7	**	**	17.8	17.0	10.0	2.4	.9
24	1.6	**	**	**	7.4	**	**	6.2	15.6	9.9	2.7	.2
25	2.8	**	**	**	7.0	**	**	5.5	14.5	9.3	2.5	1.1
26	3.5	**		**	7.9	**	**	18.5	15.8	9.2	2.5	0.0
27	2.1	**	**	**	8.8	**	**	19.1	15.6	7.0	.8	0.0
28	1.0	**	**	**	6.4	**		19.0	14.3	7.4	0.0	0.0
29	.2		**	**	6.7	**	**	18.1	13.9	7.8	1.2	0.0
30	.2			**	4.3	**	**	18.2	13.5	7.8		0.0
31	.4		**		7.1		**	18.3				0.0
MEAN	.7	.3	**	4.2	8.5	**	**	18.5	16.3	10.3	4.3	1.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0								2					2
21.0								7					9
20.0								7	3				19
19.0								2	4				25
18.0								2	3				30
17.0								1	1				32
16.0													32
15.0									4	3			39
14.0									2	1			42
13.0									2				44
12.0								1		1			46
11.0					1					5			52
10.0					6					4			62
9.0					2					10			74
8.0					7			1			4		86
7.0					7				1	4	1		99
6.0					2			1	1	2	2		107
5.0				3				1			5		116
4.0				6	1						3		126
3.0	1			2							2		131
2.0	2			1							9	5	148
1.0	3										2	14	167
0.0	25	11									2	12	217
-1.0													217
-2.0													217

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	0.0	.1	.6	8.0	11.3	19.1	23.6	20.9	15.4	10.4	2.8
2	.8	**	.3	.7	9.0	12.2	20.0	23.8	20.8	15.8	**	3.3
3	.8	**	.3	.7	9.3	12.7	19.8	24.1	20.7	16.5	**	3.6
4	.8	**	.2	.6	9.2	13.2	19.3	24.0	20.8	16.7	**	3.6
5	.6	**	.2	1.3	8.9	14.1	18.9	23.9	21.0	16.9	**	3.7
6	.6	**	.1	1.7	8.3	14.8	18.6	23.9	21.2	16.3	**	3.8
7	.7	**	.2	1.0	8.0	15.9	19.1	23.8	21.5	15.8	**	3.8
8	.8	**	.2	.6	7.5	16.3	19.4	23.7	21.8	15.5	**	4.0
9	.5	**	.3	.9	7.4	17.1	20.1	23.5	21.6	15.4	**	4.0
10	.5	**	.6	.8	6.9	18.5	20.3	23.2	20.8	15.1	**	3.3
11	.4	**	.8	.9	7.5	19.4	20.4	22.7	0.2	14.4	**	3.4
12	.1	**	.3	1.1	8.0	19.5	21.0	22.6	20.1	14.2	**	3.7
13	.2	**	.6	.9	8.3	19.6	21.3	22.3	20.0	14.0	**	3.7
14	.3	**	.3	1.5	8.5	19.7	21.1	22.5	20.0	14.3	**	3.9
15	.5	.6	0.0	1.9	8.4	21.0	20.6	22.6	19.8	14.4	**	3.4
16	.3	.4	0.0	1.1	8.1	22.0	20.6	23.0	19.6	14.8	**	2.8
17	.1	.3	0.0	2.9	9.4	22.2	20.7	23.7	19.9	14.6	**	2.4
18	0.0	.5	0.0	5.0	10.3	21.9	21.0	23.7	20.3	14.7	**	3.0
19	0.0	.5	0.0	5.0	10.7	20.2	21.5	23.5	20.6	13.6	**	3.8
20	**	.5	0.0	4.7	10.4	18.4	21.8	23.6	20.8	12.8	4.3	4.1
21	**	.4	0.0	4.7	10.5	19.4	22.1	23.3	20.8	12.4	4.2	4.5
22	**	.4	0.0	6.3	9.8	20.0	22.4	22.9	19.8	12.0	4.7	4.5
23	*	.4	0.0	6.9	9.0	20.5	22.7	22.3	18.9	12.3	4.4	3.1
24	**	.4	.2	7.1	9.1	20.5	23.0	22.1	18.3	12.7	4.2	2.3
25	.5	.4	0.0	6.6	9.4	20.7	23.1	22.2	17.3	12.3	4.2	1.9
26	.9	.4	.3	6.8	9.5	20.7	23.1	22.5	17.2	11.3	4.9	1.5
27	1.6	.4	.2	6.7	9.6	20.4	23.0	22.5	16.8	10.8	4.4	1.1
28	1.0	.3	.2	6.2	9.3	19.9	22.7	21.9	16.4	10.3	3.6	1.1
29	.6		.3	6.1	10.0	19.0	22.8	21.8	16.2	10.1	2.5	1.2
30	.2		.4	6.7	10.3	18.9	23.0	21.6	15.6	10.1	2.5	1.2
31	**		.5		10.6		23.3	20.9		10.3		1.1
MEAN	.5	.4	.2	3.3	9.0	18.3	21.2	23.0	19.7	13.7	4.5	3.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								2					2
23.0						2	6	14					22
22.0						2	5	11					40
21.0						7	6	3	5				56
20.0						7	7	1	13				84
19.0							5		4				100
18.0						3	2		2				107
17.0						1			2				110
16.0						1			3	4			118
15.0						1			1	6			126
14.0										8			136
13.0										1			138
12.0										6			146
11.0						1				1			148
10.0					7						1		161
8.00					11								172
7.0					9								181
				1	3								185
6.0				8	1								194
4.0													196
3.0				2							8	5	211
											1	15	227
2.0				1							2	4	234
1.0	2			7								7	250
0.0	22	15	31	9									327
-1.0													327
-2.0													327

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	**	**	**	12.9	9.8	2.7
2	**	**	**	**	**	**	**	**	**	13.6	9.8	2.5
3	**	**	**		**	**	**	**	**	14.0	9.8	2.2
4	**		**	**	**	**	**	**	**	14.6	8.8	1.8
5	**	**	**	**	**	**	**	**	**	15.8	8.7	2.0
6	**	**	**	**	**	**	**	**	**	15.1	8.6	2.2
7	**	**	**		**		**	**	**	14.5	7.7	2.6
8	**	**	**	**	**	**	**	**	**	14.4	7.3	2.9
9	**	**	**	**	**	**	**	**	**	14.2	6.8	3.0
10	**	**	**	**	**	**	**	**	**	14.0	6.8	2.9
11	**	**	**		**	**	**	**	**	13.4	7.3	2.9
12	**	**	**	**	**	**	**	**	**	13.4	7.5	3.1
13	**	**	**	**	**	**	**	**	**	13.2	6.3	3.0
14	**	**	**	**	**	**	**	**	**	13.1	5.3	3.0
15	**		**		**	**	**	**	**	13.2	3.8	2.6
16	**	**	**	**	**	**	**	**	**	13.5	3.7	2.1
17	**	**	**	**	**	**	**	**	**	13.6	3.9	2.0
18	**	**	**		**			**	**	12.8	4.0	**
19	**		**		**	**	**	**	**	11.3	3.8	2.7
20	**	**	**	**	**	**	**	**	**	11.5	3.1	2.5
21	**	**	**	**	**	**	**	**	**	11.1	3.1	3.2
22	**	**	**	**	**	**		**	**	10.9	3.3	3.1
23	**		**		**	**	**	**	**	11.2	**	1.6
24	**	**	**	**	**	**	**	**	**	11.2	**	1.6
25	**	**	**	**	**	**	**	**	**	11.3	3.6	1.5
26	**	**	**	**	**	**		**	**	10.8	3.9	.9
27	**	**	**	**	**	**	**	**	16.2	10.4	4.0	.7
28	**	**	**	**	**	**	**	**	14.2	10.1	3.8	.1
29	**		**	**	**	**	**	**	12.7	9.9	2.8	.1
30	**			**		**	**	**	12.8	9.9	2.7	.1
31	**		**		**		**	**		10.1		.1
MEAN	**	**	**			**		**	14.0	12.5	5.7	2.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0									1				1
15.0										2			3
14.0									1	6			10
13.0										8			18
12.0									2	2			22
11.0										6			23
10.0										5			33
9.0										2	3		38
8.0											3		41
7.0											4		45
6.0											3		48
5.0											1		49
4.0											2		51
3.0											10	6	67
2.0											2	14	83
1.0												4	87
0.0												6	93
-1.0													93
-2.0													93

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	0.0	.2	2.7	7.5	13.3	17.7	**	18.1	13.5	11.5	4.0
2	**	0.0	.1	4.0	7.0	14.0	18.4	21.5	19.4	14.7	11.6	4.2
3	**	0.0	.6	5.2	6.9	14.8	19.9	21.4	19.7	15.8	11.2	3.6
4	**	0.0	1.0	5.9	7.4	14.8	19.0	21.4	20.3	16.6	10.0	3.0
5	**	0.0	.4	6.3	7.5	13.7	17.7	21.4	20.3	16.8	9.1	3.4
6	**	0.0	.3	6.3	7.8	13.7	18.3	21.6	20.3	14.9	8.3	4.2
7	**	0.0	.2	6.8	7.2	12.7	18.6	21.3	20.6	14.3	8.1	4.8
8	**	0.0	.2	7.0	7.0	12.9	18.6	21.5	20.3	15.3	7.7	5.0
9	.2	0.0	.2	6.1	7.0	12.9	19.2	21.4	19.7	15.0	7.7	4.3
10	.3	0.0	.4	6.6	7.5	14.1	19.4	20.2	17.4	14.3	8.3	3.9
11	0.0	0.0	.3	5.9	7.2	14.6	19.7	18.4	17.6	13.6	9.1	4.4
12	0.0	0.0	.7	5.4	8.3	15.8	19.5	18.4	18.3	13.5	9.2	4.8
13	.4	.1	1.0	5.8	9.1	17.0	19.1	19.6	18.5	13.4	7.9	4.7
14	1.0	.2	.6	5.8	9.8	16.5	18.4	20.3	9.8	13.9	7.0	4.2
15	1.0	.2	.2	6.4	10.0	15.8	18.4	20.6	19.1	14.0	5.5	3.1
16	.2	.3	.2	6.7	10.3	17.5	18.6	20.8	19.3	14.2	4.8	2.9
17	.1	.4	.2	7.3	10.5	17.7	18.6	21.0	19.5	13.9	4.8	2.8
18	0.0	.3	.1	6.3	10.1	17.5	18.5	20.8	20.0	13.4	5.5	3.4
19	0.0	.3	.2	4.3	10.3	17.1	18.5	19.6	19.9	11.8	4.4	3.8
20	0.0	.2	.3	1.8	10.8	16.6	18.7	19.6	19.9	11.2	3.7	3.8
21	.3	.4	.3	1.8	10.9	17.0	19.3	19.9	19.3	11.3	4.0	4.9
22	.6	.3	.4	7.2	11.0	17.5	19.5	19.5	17.3	11.4	4.9	4.7
23	2.0	.4	.5	7.4	11.3	18.4	19.4	19.0	16.5	11.7	5.0	3.2
24	1.8	.2	.6	7.1	11.2	18.4	19.6	19.5	16.0	12.8	4.5	2.6
25	2.6	.1	.6	7.4	12.4	18.1	19.7	20.1	15.3	12.4	4.7	2.5
26	0.0	.2	1.0	1.7	12.6	18.3	20.0	20.3	15.6	11.3	5.3	1.8
27	0.0	0.0	1.2	6.2	11.0	17.7	20.4	20.5	15.3	10.8	4.0	1.7
28	0.0	.1	1.0	9.1	12.9	17.0	20.9	20.0	12.8	9.7	3.0	1.6
29	.1		1.1	7.5	13.4	**	21.2	20.2	11.9	9.7	3.0	1.0
30	0.0		1.2	7.5	13.8	**	21.1	19.6	12.2	10.9	3.9	1.5
31	0.0		2.2		13.3		21.1	17.5		11.2		1.4
MEAN	.5	.1	.6	6.7	9.8	15.9	19.2	20.2	18.0	13.1	6.6	3.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0							3	9					12
20.0							3	10	6				31
19.0							10	8	9				58
18.0						4	13	2	4				81
17.0						9	2	1	3				96
16.0									2	2			102
15.0						2			3	3			110
14.0						5				6			121
13.0					3	3				7			134
12.0					3	3			2	2			144
11.0					4				1	7	3		159
10.0					7					2	1		169
9.0				1	2					2	3		177
8.0				5	1						3		185
6.0				9	10						4		209
5.0				7	1								217
4.0				5							4	1	227
3.0				2							8	11	248
											4	9	261
2.0	2		1	1								4	269
1.0	4		7									6	286
0.0	17	28	23										354
-1.0													354
-2.0													354

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.2	1.3	1.7	5.4	12.7	**	**	23.0	17.5	11.7	8.7	.7
2	1.3	1.2	1.8	5.1	11.9	**	**	22.8	18.3	13.1	9.4	.3
3	1.1	1.2	1.8	6.0	10.1	**	**	20.2	19.1	14.7	8.4	.5
4	1.1	1.2	2.0	6.1	9.6	**	**	19.5	19.5	15.7	7.6	.7
5	1.3	1.1	2.0	6.8	10.5	**	**	20.0	19.8	16.1	7.4	.8
6	1.1	1.1	1.8	6.8	10.8	**	**	21.3	20.1	14.8	6.1	1.6
7	.9	1.1	2.0	5.9	10.8	**	**	17.8	20.8	12.2	5.0	2.2
8	1.0	1.1	2.2	7.1	9.9	**	**	13.8	19.7	12.7	5.1	2.1
9	1.2	1.2	2.1	7.7	9.1	**	**	18.8	19.2	12.9	5.5	1.6
10	1.2	1.3	2.0	6.5	9.4	**	**	18.9	17.5	11.7	6.5	1.3
11	1.3	1.4	2.3	5.6	9.0	**	**	18.5	16.8	11.1	7.2	1.9
12	1.1	1.2	2.2	5.6	8.7	**	**	18.8	17.5	11.1	7.2	3.0
13	1.2	1.2	2.1	6.4	11.2	**	**	20.1	18.2	10.8	6.2	2.4
14	1.2	1.2	2.1	7.6	10.3	**	**	20.6	18.6	11.5	5.3	1.9
15	1.1	1.1	2.0	8.6	10.3	**	**	20.2	18.6	11.9	3.0	1.0
16	1.0	1.1	1.9	8.4	11.1	**	**	20.4	17.8	12.4	1.9	.6
17	1.0	1.1	1.5	10.1	11.1	**	**	19.2	18.1	12.1	2.1	.6
18	1.0	1.8	1.8	8.7	12.0	**	**	18.9	18.5	12.0	2.8	1.1
19	1.2	1.8	1.3	8.8	11.8	**	**	19.1	18.7	10.3	2.4	1.6
20	1.3	1.6	1.4	10.1	11.4	**	**	18.5	18.6	9.1	1.8	1.5
21	1.3	1.8	1.2	10.5	11.7	**	19.0	18.4	15.6	8.9	1.9	2.8
22	1.1	1.8	1.4	10.2	11.1	**	18.0	18.5	14.8	8.9	2.4	1.9
23	1.6	2.0	1.4	8.9	12.3	**	13.0	18.7	14.0	9.4	2.5	.7
24	1.7	2.3	1.6	7.9	12.3	**	15.6	19.3	14.1	10.8	2.1	.5
25	1.9	2.8	1.8	8.5	14.3	**	18.0	20.4	13.8	10.8	2.3	.5
26	**	1.9	2.0	9.2	17.9	**	19.3	20.8	14.7	9.1	2.8	.5
27	**	1.7	2.2	8.9	17.9	**	20.4	20.5	14.6	8.4	2.5	.7
28	**	1.5	2.4	10.0	11	**	21.3	19.8	12.2	7.6	1.0	.8
29	**		2.6	10.6	**	**	21.2	19.6	11.0	7.0	1.1	.9
30	1.2		3.0	10.4	**	**	22.0	19.1	10.4	7.8	.9	.7
31	1.2		3.2		**		22.4	17.2		8.5		.6
MEAN	1.2	1.5	1.9	7.9	11.3	**	19.1	19.4	16.9	11.1	4.3	1.2

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0								1					1
22.0							2	1					4
21.0							2	1					
20.0							1	9	2				19
19.0							2	7	5				33
18.0							2	9	8				52
17.0					1			2	4				59
16.0									1	1			61
15.0							1		1	1			64
14.0					1				5	2			72
13.0					1		1	1	1	1			77
12.0					4				1	6			88
11.0					8				1	6			103
10.0				7	6				1	4			121
9.0				1	5					3	1		131
8.0				7	1					4	2		145
7.0				4						3	4		155
6.0				6							3		165
5.0				5							4		174
4.0											1		174
3.0			2								9	1	178
2.0		2	15								5	4	208
1.0	26	26	14								1	10	289
0.0	1											16	307
-1.0													307
-2.0													307

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.5	3.6	.8	1.0	**	9.2	**	20.7	16.2	13.0	8.3	3.1
2	3.5	3.7	.8	**	**	10.9	**	19.2	16.6	12.6	8.1	3.1
3	3.5	3.7	.8	1.1	**	12.0	**	19.6	16.9	12.0	7.1	3.5
4	3.5	3.7	**	**	**	11.5	**	19.8	17.2	11.8	7.2	4.0
5	3.5	3.6	**	1.2	**	13.3	**	19.8	17.1	11.7	5.7	4.4
6	3.5	3.5	.9	1.2	**	13.9	**	20.1	17.4	12.3	5.1	4.6
7	3.5	3.2	.9	1.2	**	11.3	**	19.5	17.8	11.8	5.0	4.7
8	3.5	3.1	.9	1.2	**	11.3	**	19.5	17.7	11.5	5.0	4.3
9	3.5	3.1	.9	1.2	**	9.8	**	19.2	17.5	10.8	5.9	3.2
10	3.5	3.2	**	1.2	**	10.4	**	18.5	16.6	10.8	6.5	2.2
11	3.5	3.2	**	1.2	**	10.3	**	18.5	15.8	10.9	7.0	1.4
12	3.5	3.1	.9	1.2	**	10.7	**	18.9	14.6	10.9	5.8	.9
13	3.5	3.0	.9	1.2	**	10.7	**	19.3	13.4	9.9	5.2	1.0
14	3.5	1.9	1.0	1.2	**	11.2	**	18.6	13.4	10.2	4.6	.5
15	3.5	.6	1.0	1.2	**	11.4	**	18.6	13.3	10.2	4.6	.7
16	3.5	.7	1.0	1.2	**	12.6	**	19.0	14.1	10.8	4.8	1.0
17	3.5	**	1.0	1.2	**	13.2	**	18.7	15.3	10.8	5.5	1.2
18	3.5	**	1.0	1.2	**	13.9	**	18.5	16.5	10.0	5.0	1.2
19	3.5	**	1.0	1.2	**	12.7	**	18.2	17.4	9.6	4.8	1.2
20	3.5	**	1.0	1.2	**	10.9	**	17.1	16.8	9.5	4.5	1.0
21	3.5	**	1.0	1.2	**	11.5	**	17.7	16.7	9.0	4.8	1.3
22	3.5	**	1.0	1.2	7.6	12.8	**	16.9	16.4	9.2	4.8	.8
23	3.5	**	**	1.2	7.4	13.7	**	17.6	15.9	9.7	4.4	.1
24	3.5	**	**	1.2	7.3	14.2	**	14.1	15.5	10.2	4.3	.2
25	3.6	1.0	**	1.2	8.1	13.5	**	14.7	15.4	10.5	4.7	.2
26	3.6	1.1	.9	1.2	8.5	14.3	**	16.1	15.2	9.1	4.6	0.0
27	3.5	1.0	.9	1.2	7.8	15.2	**	16.5	14.2	8.4	3.9	0.0
28	3.5	.9	.9	1.2	8.6	14.9	**	15.9	13.4	7.7	2.6	0.0
29	3.5		.9	1.2	8.1	15.0	**	15.9	12.7	7.5	1.7	0.0
30	3.5		.9	1.2	6.7	14.9	**	15.9	12.6	7.7	2.9	0.0
31	3.5		1.0		8.9		**	15.5		8.3		0.0
MEAN	3.5	2.5	.9	1.2	8.1	12.4	**	18.0	15.7	10.3	5.9	1.6

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													
24.0													0
23.0													
22.0													0
21.0													0
20.0								2					2
19.0								9					11
18.0								8					19
17.0								3	7				29
16.0								3	8				40
15.0						2		4	6				52
14.0						4		2	3				61
13.0						6			4	2			73
12.0						4			2	4			83
11.0						6				2			91
10.0						6				11			108
9.0						2				7			117
8.0					6					2	2		127
7.0					4					3	3		137
6.0											5		142
5.0											4		146
4.0											11	5	162
3.0	31	13									1	4	211
2.0											3	1	215
1.0		4	10	28								8	255
0.0		3	14									13	295
-1.0													295
-2.0													295

Station No. 7058, Temperatures, Lake Michigan at Milwaukee, Wisconsin, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	14.1	22.2	**	**	**	4.6
2		**		**	**	**	13.2	15.0	**	**	**	4.3
3	**	**	**	**	**	**	14.5	13.3	**	**	**	4.0
4	**	**	**	**	**	**	15.4	13.4		**	**	4.1
5	**	**	**	**	**	**	**	19.3	**	**	**	4.4
6	**	**		**	**	**	19.1	17.0	**	**	**	4.8
7	**	**	**	**	**	**	19.6	13.1	**	**	**	4.8
8	**	**	**	**	**	**	19.1	16.1	**	**	**	4.7
9		**	**	**	**	**	19.3	16.9	**	**	**	4.7
10	**	**	**	**	**	**	19.8	16.9	**	**	**	5.0
11	**	**	**	**	**	**	17.7	19.3	**	**	**	4.9
12	**	**	**	**	**	**	16.9	20.1		**		4.8
13	**	**	**	**	**	**	20.6	20.4	**	**	**	4.5
14	**	**	**		**	**	18.9	19.5	**	**	**	4.4
15	**	**	**	**	**	**	19.7	18.9	**	**	**	3.6
16	**	**	**	**	**	**	18.3	18.5	**	**		3.2
17	**	**	**	**	**	13.4	16.2	14.7	**	**	**	3.4
18	**	**	**		**	14.5	18.3	15.8	**	**	**	3.8
19	**	**	**	**	**	14.7	20.9	19.0	**	**	**	3.5
20	**	**	**	**	**	14.5	21.4	19.0	**	**	**	3.5
21	**	**	**	**	**	14.8	20.9	18.5	**	**	**	3.8
22	**	**	**		**	15.4	16.4	18.7	**	**	**	3.0
23	**	**	**	**	**	14.0	11.7	19.5	**	**	6.0	2.3
24	**	**	**	**	**	14.3	10.7	20.1	**	**	5.8	2.2
25	**	**	**	**	**	14.9	14.9	19.2	**	**	6.0	2.1
26	**	**	**	**	**	14.9	17.1	19.2	**	**	6.0	1.7
27	**	**	**	**	**	15.9	13.5	17.8	**	**	5.6	1.7
28	**	**	**	**	**	15.9	18.1	19.2	**	**	5.1	1.6
29	**		**		**	16.1	15.2	18.8	**	**	5.0	1.4
30	**		**	**	**	14.5	19.4	18.3	**	**	5.0	1.5
31	**		**		**		21.6	18.3		**		1.0
MEAN	* *	**	**	**	**	14.8	17.4	17.9	**	**	5.6	3.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0								1					1
21.0							2						3
20.0							3	3					9
19.0							7	9					25
18.0							4	7					36
17.0							2	2					40
16.0						3	4	3					48
15.0						9	1	2					54
14.0							3	1					67
13.0						1	2	3					73
12.0													73
11.0							1						74
10.0							1						75
8.0													75
7.0													75
6.0											3		78
											5	1	84
4.0												13	97
3.0												8	105
2.0												3	108
1.0												6	114
0.0													114
-1.0													114
-2.0													114

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.4	.4	.6	**	4.2	6.3	8.9	**	**	11	6.9	2.0
2	1.0	.4	.5	**	4.5	7.5	10.2	**	**	11	6.9	1.6
3	.5	.3	.6	**	4.0	8.8	10.0	**	**	11.2	6.5	1.9
4	.4		.6	**	3.4	7.9	10.4	**	**	11.6	6.5	2.4
5	.1	.3	.6	**	4.0	9.5	10.3	**	**	11.5	5.9	2.6
6	0.0	.5	.6	**	4.3	9.0	11.3	**	**	10.8	5.9	2.6
7	0.0	.6	2.0	**	5.6	9.6	11.2	**	**	10.2	5.5	2.5
8	0.0	.6	.6	**	5.3	9.5	11.2	**	**	10.7	5.0	2.7
9	.2	.5	.7	**	4.3	9.6	11.7	**	**	9.2	5.4	2.1
10	.4	.5	.7	**	4.7	9.7	11.9	**	**	8.9	5.7	4.5
11	.1	.4	.7	**	4.8	8.4	**	**	**	8.5	5.9	2.5
12	.1	.4	.7	**	4.5	8.9	**	**	**	8.5	6.2	2.2
13	.3	.4	.8	**	4.8	8.4	**	**	**	8.9	6.4	2.2
14	.3	.4	.8	**	5.1	8.6	**	**	**	8.7	6.8	2.2
15	.1	.4	1.0	**	4.3	8.9	**	**	**	9.1	3.7	2.2
16	0.0	.3	1.0	**	4.7	8.2	**	**	**	9.3	3.0	2.1
17	0.0	.4	.8	**	5.1	8.1	**	**	**	9.4	3.5	2.2
18	0.0	.5	1.1		5.9	7.7	**	**	**	8.6	4.3	2.2
19	0.0	.6	.9	**	5.1	9.1	**	**	**	8.0	3.9	2.2
20	.4	.7	**	**	4.5	9.5	14.9	**	**	7.5	3.9	2.2
21	.4	.6	**	**	4.9	5.8	12.7	**	**	7.4	3.6	2.2
22	.5	.5	**		5.3	5.9	12.1	**	**	7.3	3.2	2.1
23	.6	.6	**	**	5.9	8.3	**	**	**	7.6	3.5	2.1
24	.6	.7	**	**	5.2	8.7	**	**	**	8.1	3.4	2.2
25	.3	.6		**	5.5	8.4	**	**	**	7.6	3.2	2.2
26	.3	.6	**		5.9	9.2	**	**	**	7.5	3.2	2.2
27	.3	.7	**	**	5.1	10.0	**	**	**	7.2	3.2	2.2
28	.3	.6	**	**	5.7	10.4	**	**	**	6.7	3.0	2.2
29	.3		**	**	5.6	9.2	**	**	**		3.0	2.2
30	.4		**		6.0		**	**	**	5.6	2.9	2.2
31	.3		**		6.1		**	**		7.2		2.2
MEAN	.3	.5	.8		4.9	8.1	11.3	**	**	8.5	5.6	2.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													
24.0													
23.0													
22.0													0
21.0													
20.0													
19.0													
18.0													0
17.0													
16.0													
15.0													
14.0							1						1
13.0						1							2
12.0							2						4
11.0						2	5			4			13
10.0							4			4			21
9.0						7				7			32
8.0						7	1			10			47
7.0					1	3							61
5.00					1	4				1	6		73
4.0					1711	6				1	2		98
											14	1	118
3.0					1								133
1.00			1								1	28	163
0.0	2		3									2	170
	29	28	15										242
-1.0													242
-2.0													242

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1967

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.4	.4	.3	.4	3.5	8.2	13.9	13.9	13.4	12.0	6.7	1.4
2	.6	.3	.3	.5	2.3	10.0	14.2	16.2	13.9	12.7	6.2	1.2
4	.5	.2	.3	.7	3.2	9.1	13.6	16.8	13.8	12.6	5.7	1.2
5	.3	.3	.3	.4	5.1	10.2	14.1	17.2	14.2	10.8	5.1	1.8
	.3	.3	.3	.4		9.9	14.4	18.3	14.9	10.2	4.2	2.4
6	.3	.4		.4	6.0	8.2	13.9	18.2	15.6	9.6	3.5	2.7
7	.3	.2	.3	.4	6.4	7.8	14.7	17.5	15.9	8.4	2.4	2.8
8	.5	.3	.3	.4	5.8	7.9	15.2	17.6	17.0	6.8	3.4	2.9
9	.5	.3	.3	.4		9.5	15.7	17.4	15.4	5.6	5.0	2.2
10	.3	.3	.3	.3	5.8	8.6	15.1	14.9	13.9	4.4	5.0	2.4
12	.3	.4	.3	.4	6.06	7.9	16.7	14.4	14.6	4.2	5.8	2.4
13	.3	.3	.3	.4	5.9	7.9	15.1	16.5	14.8	4.2	5.7	2.6
14	.3	.3	.3	.3	6.6	8.0	14.5	17.4	14.7	5.5	4.5	2.2
15	.3	.3	.3	.3	6.7	8.2	15.4	18.2	14.9	6.7	3.7	1.3
	.3	.3	.3	.8		8.8	15.9	18.8	15.2	7.2	2.4	.9
16	.3	.4	.3	.4	7.7	7.7	16.0	19.4	15.3	7.3	3.0	.5
17	.3	.4	.3	.2	7.7	9.2	16.1	19.6	16.1	7.3	3.8	.5
19	.3	.4	.3	.3	6.5	7.7	15.0	14.4	16.7	6.9	3.9	.5
20	.3	.4	.3	1.3	5.9	6.9	14.8	11.2	16.4	6.2	3.4	.6
	.3	.4	.4	2.0	6.0	9.3	14.4	11.2	16.5	6.6	3.2	1.0
21	.3	.2	-	1.6	7.2	10.7	16.2	12.4	16.0	7.0	2.7	1.5
22	.3	.4	.4	1.5	6.8	10.1	16.8	9.4	12.1	7.0	2.6	1.1
23	.3	.4	.7	3.0	6.6	11.1	18.7	7.9	8.8	8.3	2.0	.7
24	.3	.4	.3	3.0	7.1	11.1	17.9	9.4	10.5	8.5	2.2	.7
25	.3	.4	.3	4.3	7.9	11.8	18.2	12.2	13.0	8.2	2.4	.6
26	.3	.4	.3	4.3	7.9	12.3	18.3	12.7	12.5	7.1	2.3	.6
27	.3	.4	.3	3.7	8.7	11.3	18.1	10.6	10.9	5.8	1.6	.6
28	.3	.4	.3	4.9	7.0	10.7	18.1	12.2	9.2	5.0	1.0	.6
29	.3		.3	5.3	7.5	11.7	18.3	12.9	9.7	5.7	1.0	.6
30			.3	3.2	8.1	13.1	17.8	12.0	11.6	6.4	1.2	.6
31	.3		.3		8.2		17.8	13.2		6.5		.7
MEAN	.3	.3	.3	1.5	6.3	9.5	16.0	14.6	13.9	7.4	3.5	1.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
.0													0
23.0													0
													0
21.0													0
													0
19.0								2					2
18.0							6	4	1				12
17.0							3	5	5				21
							5						34
15.0							7	3	5				46
							7	3	6				62
13.0						1	3	6	5				73
12.0						5		2	1	3			85
11.0						5		1	2				93
10.0						5		2		2			103
9.0									2	1			113
8.0					3				1				127
7.0					8	6				4			148
6.0					10	61		1		5	2		168
4.0				3	1					3	6		186
3.0				4	2						2		209195
				1							8	9	
2.0				3	1						8	8	228
1.0													
0.0	31	28	31	18							4	14	243365
-1.0													365
-2.0													365

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.5	.8	.3	2.4	7.0	11.5	15.4	21.3	19.9	18.5	12.4	5.4
2	1.5	.7	.3	2.3	6.9	11.3	15.7	21.2	19.9	18.6	12.4	5.4
3	1.2	**	.3	2.3	6.8	11.6	16.2	21.1	19.9	18.5	12.2	5.4
4	1.1	**	.3	2.9	7.1	12.0	16.3	21.2	20.1	17.8	12.1	5.3
5	.8	**	.3	3.1	7.0	12.4	16.2	21.2	20.2	17.3	11.9	5.0
6	.9	**	.3	2.8	7.2	12.6	16.5	21.2	20.0	17.1	11.4	4.6
7	.8	**	.3	3.1	7.4	12.8	16.5	21.7	19.9	16.9	11.0	4.3
8	.8	**	.3	4.0	7.8	13.1	16.5	21.9	20.0	16.6	10.8	4.2
9	.9	**	.3	4.4	7.9	13.4	16.8	22.2	20.3	16.5	10.5	3.4
10	.9	**	.3	4.4	8.1	13.7	16.9	22.3	20.2	16.3	10.3	2.6
11	.9	**	.3	4.8	8.4	13.5	17.3	22.1	20.0	16.1	10.0	2.6
12	.8	**	.3	5.0	8.6	14.0	17.8	21.8	19.7	16.0	9.4	2.4
13	.8	**	.3	5.2	8.5	13.9	17.9	21.8	19.5	15.8	8.8	2.5
14	.7	.3	.3	5.4	9.2	14.1	18.1	21.8	19.6	15.8	8.6	2.9
15	.7	.3	.3	5.7	9.3	14.1	18.4	21.6	19.6	15.9	8.4	2.2
16	.8	.3	.3	5.5	9.4	14.2	18.9	21.5	19.8	15.8	8.4	1.3
17	.9	.3	.3	5.7	9.6	14.4	19.1	21.2	19.9	16.1	8.0	.8
18	.8	.3	.4	5.8	9.7	14.7	19.7	20.8	19.9	16.1	7.7	.7
19	.7	.3	.7	5.9	9.8	14.8	20.1	20.6	19.9	16.3	7.4	.8
20	.7	.3	.5	6.1	9.9	14.6	20.1	20.8	19.9	16.2	7.1	.8
21	.8	.3	.5	6.3	10.0	14.6	20.4	20.9	19.8	16.0	6.8	.8
22	.8	.3	.5	6.5	10.2	14.7	20.6	20.7	19.9	15.7	6.8	1.0
23	.9	.3	.7	6.7	10.5	15.2	21.1	20.6	20.1	15.8	6.8	1.0
24	.9	.3	.5	6.7	10.9	15.1	20.8	20.7	20.1	15.5	6.6	.7
25	1.0	.3	.7	6.6	11.2	15.2	20.9	20.9	20.2	15.4	6.6	.5
26	.9	.3	.8	6.4	11.1	15.2	21.4	20.7	19.9	14.9	6.2	.5
27	.8	.3	1.3	6.2	11.0	15.2	21.5	20.2	19.5	14.2	6.0	.5
28	.9	.3	1.3	6.6	11.1	15.0	21.7	20.1	19.3	14.1	5.8	.5
29	.9	.3	1.3	6.8	11.3	15.1	21.3	20.2	19.0	13.8	5.9	.5
30	.8		1.3	6.9	11.3	15.1	21.3	20.0	18.4	13.3	**	.5
31	.8		2.1		11.2		21.3	20.0		12.7		.5
MEAN	.9	.4	.6	5.1	9.2	13.9	18.8	21.1	19.8	16.0	8.8	2.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							7	3					3
21.0								14					24
20.0							2	14	10				54
19.0							3		19				75
18.0									1	3			82
17.0							3						88
16.0						8	8			11			107
15.0						10	2			8			125
14.0										3			138
13.0										2			145
12.0						4				1	4		154
11.0					7								167
10.0					4						4		175
9.0					7						1		183
8.0					4						5		192
7.0					7						3		202
6.0				11	2						7		222
5.0				8							2	5	237
3.0				4								3	244
2.0				2								1	247
			1	5								6	259
1.0	5		4									3	271
0.0	26	18	26									13	354
-1.0													354
-2.0													354

Station No. 2076, Temperatures, Lake Ontario at Olcott, New York, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	0.0	.4	4.0	**		**		**		**	**
	0.0	0.0	.4	4.6	**	**	**	**	**	**	**	**
3	.2	0.0	.2	4.4	**	**	**	**	**	**	**	**
4	0.0	0.0	.4	4.9	**	**	**	**	**	**	**	**
5	0.0	0.0	.3	4.0	**	**	**		**		**	
6	0.0	0.0	.3	2.2	**	**	**	**	**	**	**	**
7	0.0	0.0	.5	2.9	**	**	**	**	**	**	**	**
8	0.0	0.0	.7	3.4	**	**	**	**	**	**	**	**
9	0.0	0.0	1.2	3.5	**	**	**	**	**	**	**	
10	0.0	0.0	1.3	2.3	**	**	**	**	**	**	**	**
11	0.0	0.0	1.2	2.2	**	**	**	**	**	**	**	**
12	0.0	0.0	1.1	2.5	**		**		**		**	**
13	0.0	0.0	.3	2.8	**	**	**	**	**	**	**	4.0
14	0.0	**	.3	.1	**	**	**	**	**	**	**	3.2
15	0.0	.3	.7	1.6	**	**	**	**	**	**	**	2.3
16	0.0	.3	1.1	.9	**		**		**		**	.9
17	0.0	.3	1.2	.8	**	**	**	**	**	**	**	.9
18	0.0	.2	1.2	.7	**	**	**	**	**	**	**	.9
19	0.0	.2	1.7	1.8	**		**	**	**	**	**	1.2
20	0.0	.2	2.2	2.1	**	**	**	**	**	**	**	1.1
21	0.0	.3	2.2	2.0	**	**	**	**	**	**	**	1.1
22	0.0	.2	1.6	1.7	**	**	**	**	**	**	**	1.6
23	0.0	.3	1.5	**		**	**	**	**	**	**	1.2
24	0.0	.4	.9	**	**	**	**	**	**		**	.9
25	0.0	.4	1.0	**	**	**	**	**	**	**	**	.9
26	0.0	.3	1.9	**	**	**	**	**	**	**	**	1.0
27	0.0	.4	1.5	**	**	**		**	**	**	**	1.1
28	0.0	.3	1.5	**	**	**	**	**			**	.8
29	0.0	.6	1.5	**	**	**	**	**	**	**	**	.8
30	0.0		5.0	**	**	**	**	**	**	**	**	.9
31	0.0		3.7					**		**		.9
MEAN	0.0	.2	1.6	2.5	**	**	**	**	**	**	**	1.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0													0
11.0													0
19.0													0
8.0													0
													0
6.00													0
5.0.			1										1
4.0			1										2
3.0			1	5								1	9
2.0			2	2								1	14
1.0.			1	8								1	24
			13	3								7	47
0.0	31	28	12	4								9	131
-1.0													131
-2.0													131

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.1	.4	.3	**	3.3	12.0	19.5	**	**	**	**	**
2	.9	.5	.3	**	2.4	12.0	**	**		**	**	**
3	.6	.2	.3	**	3.2	13.5	19.6	**	**	**	**	**
4	.6	.2	.3	**	5.9	12.8	19.4	**	**	**	**	**
5	.6	.2	.4	**	**	13.3	19.0	**	**	**	**	**
6	.6	.1	.6	**	8.5	13.6	19.0	**	**	**	**	**
7	.6	.4	.7	**	9.0	14.7	19.8	**		**	**	**
8	.5	.4	.4	**	9.8	14.9	19.8	**	**	**	**	**
9	.6	.4	.7	**	10.8	14.7	20.4	**	**	**	**	**
10	.5	.2	.8	**	11.6	15.0	20.7	**	**		**	**
11	.5	.2	1.0	**	11.6	14.5	20.7	**	**	**	**	**
12	.5	.2	.7	**	11.1	15.6	20.8	**	**	**	**	**
13	.5	.2	.6	**	10.3	**	21.0	**	**	**	**	**
14	.5	.2	.6	**	10.2	**	21.3	**	**		**	**
15	.4	.2	.7	**	10.9	**	22.8	**	**	**	**	**
16	.4	.2	1.0	**	11.5	17.6	23.7	**	**	**	**	**
17	.5	.2	1.1	**	12.4	17.8	**	**	**	**	**	**
18	.5	.3	1.5	**	12.1	17.1	**	**	**	**	**	**
19	.5	.3	**	**	11.1	17.5	**	**	**	**	**	**
20	.4	.4	**	**	10.8	17.8	**	**	**	**	**	**
21	.4	.4	**	**	11.1	17.4	**	**	**		**	**
22	.4	.8	**	**	11.6	17.2	**	**	**	**	**	**
23	.5	.7	**	**	11.7	17.7	**	**	**	**	**	**
24	.5	.5	**		11.2	18.2	**	**	**	**	**	**
25	.4	.6	**	**	10.9	18.6	**	**	**	**	**	**
26	.4	1.1	**	**	10.5	18.2	**	**	**	**	**	**
27	.4	1.0	**		10.3	17.7	**	**	**	**	**	**
28	.4	.7	**		10.5	17.4	**	**	**	**		**
29	.5	.7	**	**	10.8	17.6	**	**	**	**	**	**
30	.5		**	**	11.4	**	**	**	**	**	**	**
31	.6		**		11.8		**	**		**		**
MEAN	.5	.4	.7	**	9.9	15.9	20.5	**	**	**	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													
23.0							1						
22.0													
21.0													
20.0													
19.0							7						
18.0													
17.0													29
16.0													29
15.0						2							31
14.0						4							35
13.0						3							38
12.0					2	3							43
11.0					11								54
10.0					10								64
9.0					2								66
8.0					1								67
7.0													67
6.0													67
5.0					1								68
4.0													68
3.0					2								70
2.0					1								71
1.0	1	2	4										78
0.0	30	27	14										149
-1.0													149
-2.0													149

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.9	1.9	.1	5.1	11.4	15.7	21.4	24.2	22.4	19.7	10.5	6.0
2	1.3	1.5	0.0	5.9	11.7	15.8	21.7	24.1	22.1	19.5	11.0	6.0
3		1.6	.1	6.0	12.0	17.0	21.8	23.8	21.9	19.1	11.0	6.0
4	1.4	1.5	0.0	7.1	12.6	17.9	21.6	23.8	**	17.5	10.8	6.0
5	1.5	1.5	0.0	7.5	12.4	18.1	20.4	23.6	**	16.9	10.9	6.0
6	1.5	1.5	.1	6.9	11.9	17.4	20.7	23.6	**	16.5	11.0	6.0
7	1.5	1.4	.1		11.8	17.3	20.6	24.2	**	16.6	10.2	4.3
8	1.5	1.4	.3	7.2	12.2	17.2	20.4	25.1	**	16.7	10.1	3.2
9	1.5	1.6	.6	8.8	12.6	18.0	20.4	25.4	**	16.2	10.0	1.7
10	1.6	1.6	.7	8.5	13.4	19.3	20.8	25.4	**	16.3	10.0	1.0
11	1.6	2.3	.6	9.3	13.0	19.9	**	24.8	**	16.2	10.0	1.2
12	1.6	2.7	.1	8.4	13.4	18.6	**	24.3	**	16.2	10.0	1.0
13	1.7	2.7	.2	8.2	13.2	18.9	**	24.0	**	16.1	9.3	1.7
14		2.7	.1	8.4	13.4	19.3	**	24.4	**	16.5	6.4	1.7
15	1.7	2.7	.1	9.4	13.9	18.4	**	24.4	20.6	16.5	6.5	.5
16	1.7	2.2	.2	9.5	13.7	18.9	**	24.4	20.6	16.3	6.7	.5
17	1.7	.2	.2	9.2	13.9	19.2	**	24.7	20.9	16.5	7.0	.5
18	1.6	.2	.4	9.9	14.5	19.0	21.3	24.8	20.8	16.7	7.1	.5
19		.4	.6	10.9	14.2	18.8	22.7	25.1	20.5	16.8	7.0	.5
20	1.8	.6	1.0	10.8	14.6	20.0	23.8	25.6	20.5	16.5	6.7	.7
21	1.8	.2	.6	10.5	15.5	20.1	22.7	25.7	20.7	16.2	6.4	.6
22	1.8	.2	.2	10.4	15.4	20.3	21.7	26.3	20.8	15.9	6.0	.5
23	1.8	.4	0.0	10.1	15.2	20.2	23.4	26.8	21.2	15.1	5.8	.5
24	1.7	.4	.1	11.1	15.6	20.5	24.2	26.5	21.0	15.1	5.3	.5
25	1.7	.4	.7	8.8	15.7	20.0	24.6	24.9	21.2	13.9	5.1	.5
26	1.8		1.4	8.6	15.5	20.0	25.1	23.6	20.9	12.1	6.0	.6
27	1.8	.6	2.1	9.2	15.2	19.9	24.8	23.7	20.8	12.2	5.9	.5
28	1.8	.6	3.0	9.3	14.7	19.5	**	23.6	20.5	11.7	5.1	.5
29	1.8	.4	4.5	9.6	14.9	19.5	**	23.4	20.3	10.6	6.0	.5
30	1.7		5.0		15.3	20.0	**	22.9	20.1	9.8	6.0	.4
31	1.7		5.1		15.8		23.8	22.7		10.3		.4
MEAN	1.6	1.2	.9	8.8	13.8	18.8	22.3	24.5	20.9	15.6	8.1	2.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0								3					3
25.0							1	6					10
24.0							3	12					25
23.0							3	8					36
22.0							2	2	2				42
21.0							6		4				52
20.0						8	6		13				79
19.0						8				3			90
18.0						7							97
17.0						5				1			103
16.0										17			120
15.0					9	2				3			134
14.0					5								139
13.0					8					1			148
12.0					5					2			155
11.0				2	4					1	3		165
10.0				4						2	9		180
9.0				9						1			190
8.0				7							1		198
7.0				4							3		205
6.0				3							12	6	226
5.0			2	1							2		231
4.0			1									1	233
3.0			1									1	235
2.0		6	1										242
1.0	29	10	2									6	289
0.0	2	13	24									17	345
-1.0													345
-2.0													345

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.4	.4	.9	5.5	9.0	11.7	15.1	20.0	20.1	17.4	11.4	4.0
2	1.2	.5	.8	5.1	9.5	11.6	15.3	20.0	19.8	17.4	11.7	4.6
	1.2	.6	.6	4.4	9.3	13.0	15.3	19.8	19.8	16.7	11.1	5.2
4	1.2	.6	1.0	4.7	9.7	14.1	15.7	20.7	20.1	15.4	10.4	5.7
5	1.0	.6	.9	5.7	9.5	13.0	15.2	20.8	20.2	14.8	10.7	4.1
6	1.0	.8	.8	4.5	9.5	12.7	16.6	20.7	20.0	14.1	10.4	2.3
7	.9	.9	1.1	3.9	9.4	14.2	16.6	20.9	19.6	14.0	9.1	1.7
8	.9	.6	1.5	2.9	8.6	15.5	16.3	21.4	19.4	14.2	8.2	1.0
9	1.0	.7	1.2	5.6	8.9	16.8	15.7	21.3	19.4	14.3	8.0	.6
10	.7	.7	1.4	6.5	9.6	17.9	15.6	21.1	19.5	15.1	7.8	.2
11	.2	.7	.8	5.7	10.3	17.8	15.9	20.0	18.7	15.0	7.2	.2
12	.1	.7	.7	6.3	10.9	15.9	17.3	20.2	17.7	14.8	6.6	**
13	.2	.7	1.0	6.4	11.8	13.9	17.8	20.4	18.5	15.1	5.8	**
14	0.0	.7	1.0	5.7	10.5	13.7	17.8	20.7	18.7	15.4	5.9	**
15	0.0	.7	1.2	6.2	9.9	13.4	17.5	20.6	18.7	15.8	6.9	**
16	0.0	.7	1.1	6.4	9.8	13.9	18.7	20.9	19.1	15.1	6.3	**
17	0.0	.7	.9	5.9	9.8	14.8	19.7	20.9	19.0	16.2	6.6	**
18	0.0	.7	.9	5.3	10.4	14.5	19.3	20.7	19.1	16.2	7.3	**
19	0.0	.7	1.1	7.1	10.6	14.5	17.8	21.1	18.7	16.1	6.4	**
20	0.0	**	1.2	8.0	10.8	15.2	18.4	21.8	18.5	15.5	5.2	**
21	0.0	**	.9	7.6	11.5	15.3	19.8	21.9	19.0	15.0	5.0	**
22	0.0	.9	.7	8.1	11.6	14.7	19.6	22.2	19.0	14.3	5.3	**
23	0.0	.9	.7	8.8	2	15.0	19.4	22.1	19.2	14.2	5.5	**
24	0.0	.8	.5	7.2	12.3	4.6	20.0	22.4	18.9	13.7	5.2	**
25	0.0	.7	.7	6.4	13.1	14.6	20.2	21.6	18.4	12.2	5.8	**
26	.2	.8	.8	5.9	12.5	14.9	20.8	20.1	17.9	11.9	5.1	**
27	.2	.8	.7	4.7	10.5	15.1	20.4	19.3	17.6	11.4	5.1	**
28	.3	.8	2.4	7.7	9.7	14.8	20.2	19.0	17.3	10.8	4.9	**
29	.2	.6	4.0	7.8	9.7	14.8	19.8	19.3	16.9	10.0	4.8	**
30	.4		4.8	7.6	10.1	15.5	19.7	19.9	17.0	9.6	4.0	**
31	.4		4.7		11.3		19.7	19.8		10.0		**
MEAN	.4	.7	1.3	6.2	10.4	14.6	18.0	20.7	18.9	14.3	7.2	2.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
													0
22.0								3					3
21.0								7					10
20.0							5	15	4				34
19.0							8	6	12				60
18.0							2						70
						2			9	2			84
16.0						1	4		1	6			95
15.0							7			8			117
						7							135
13.0					1	11				1			144
12.0					2	2				5	3		148
11.0										6	3		160
10.0					8					3			174
9.0					13					1	1		189
8.0				3	2						2		196
7.0				6							3		205
6.0				7							6		
5.0				9							9		219238
4.0												2	
3.0			3	5							3	1	252252
2.0			1									2	254
0.0	7		11										274
-1.0	24	27	16									3	344
													344
-2.0													344

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.4	.3	.5	4.6	10.0	11.5	11.6	14.5	20.7	15.3	9.0	2.7
2	.7	.4	.3	5.3	10.1	9.4	11.6	16.8	17.0	15.8	9.9	2.9
4	.8	.1	.3	6.1	9.8	9.7	13.3	17.7	16.3	14.8	9.1	3.4
5	.7	.2	.3	7.3	9.0	11.0	13.6	18.8	19.0	15.0	9.2	4.7
	.8	.6	.4	5.6	9.6	10.2	14.2	20.2	18.3	14.8	9.7	4.1
6	.6	.9	.4	6.1	9.8	9.0	15.0	18.4	15.9	14.8	10.5	1.9
7	.6	.5	.6	6.9	11.1	10.1	14.1	19.1	16.7	14.8	9.5	2.2
8	.8	.2	.8	7.2	11.9	13.1	13.4	20.1	17.0	15.8	9.8	1.4
9	.5	.4	.8	6.7	11.3	10.6	14.5	20.4	17.8	13.3	7.8	.2
10	.1	.7	.7	7.7	11.6	12.2	15.7	20.8	14.6	15.5	7.0	1.1
11	.3	.5	1.0	8.3	11.1	14.8	15.7	19.9	14.1	14.8	7.0	.7
12	.3	.6	1.1	9.2	11.0	9.6	15.8	19.9	14.6	12.3	7.3	.7
13	.3	.6	1.2	9.9	11.3	10.8	15.9	20.1	16.3	14.1	5.5	1.1
14	.1	.6	1.3	11.1	11.1	12.2	14.2	19.9	17.3	14.6	5.8	.6
15	.1	.6	1.1	9.0	11.1	13.4	10.1	20.4	18.2	14.4	5.8	
16	.2	.6	.8	9.8	11.1	13.9	12.6	20.6	18.5	13.7	6.2	**
17	.2	.6	.6	9.5	10.2	14.7	16.0	18.4	18.8	13.1	4.7	1.4
18	.3	.5	1.0	9.9	10.1	14.7	14.7	19.1	18.4	11.8	6.3	1.3
19	.4	.4	1.3	9.5	10.9	12.3	11.0	20.2	16.4	11.8	5.8	.2
20	.5	.6	1.2	10.4	12.4	13.0	15.9	14.7	13.8	11.8	4.9	1.5
21	.5	.4	1.0	9.6	12.9	13.5	17.1	16.1	10.5	10.4	3.2	1.4
22	.5	.4	.9	9.0	12.9	12.6	13.5	18.8	11.0	10.9	3.8	.2
23	.2	.5	.5	10.8	12.8	12.6	16.4	19.2	12.0	10.2	4.0	.4
24	.2	.5	.4	9.4	13.6	11.6	18.6	19.8	11.8	9.9	5.6	.5
25	.6	.8	.6	8.6	12.8	12.9	19.9	19.3	12.1	10.4	5.9	.1
26	.4	.7	1.0	8.5	12.5	13.8	20.7	18.7	13.4	9.5	7.9	.2
27	.3	.4	1.3	8.5	12.1	13.4	18.2	18.3	14.8	9.0	5.4	.1
28	.2	.4	2.5	9.6	**	11.4	17.0	18.9	15.6	8.4	4.8	.6
29	.1	.5	4.5	9.6	9.7	11.1	17.7	20.1	15.4	8.8	3.9	.7
30	.1		5.2	9.4	9.6	11.4	18.7	20.6	15.6	8.1	3.4	.7
31	.1		5.3		10.5		16.8	21.1		9.1		.4
MEAN	.4	.5	1.3	8.5	11.2	12.0	15.3	19.1	15.7	12.1	5.4	1.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0								1					1
20.0							1	10	1				13
19.0							1	8	1				23
18.0							3	7	5				38
17.0							3	1	4				46
16.0							3	2	4	3			58
15.0							6		4	1			69
14.0						3	5	2	4	2			85
13.0					2	7	4		2	6			105
12.0					7	6	1		2	5			127
11.0				2	8	6	3		2	2			149
10.0				13	7	4	1		1	5	1		170
9.0					6	4				3	6		202
8.0				4						4	1		211
7.0				3							4		218
6.0				4									223
5.0			2	2									235
4.0			1	1								2	244
3.0											4	1	249
2.0			1									3	253
1.0			11									8	272
0.0	31	29	16									15	363
-1.0													363
-2.0													363

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	.1	0.0		5.1	8.1	11.4	16.5	15.8	15.7	9.0	3.3
2	0.0	0.0	0.0	.8	5.2	7.4	11.6	15.9	14.6	14.7	9.1	3.6
3	0.0	0.0	0.0	1.0	5.7	8.5	11.5	15.5	15.5	14.3	8.5	3.7
4	0.0	0.0	0.0	.4	5.6	9.1	11.7	16.4	15.0	14.1	8.7	3.8
5	0.0	0.0	0.0	.4	5.4	9.4	12.3	16.7	15.2	13.6	8.8	3.2
6	0.0	0.0	0.0	.6	5.4	10.0	12.6	16.9	15.9	13.1	8.5	2.0
7	0.0	0.0	0.0	1.3	5.8	10.8	12.7	17.8	16.1	12.6	8.3	2.2
8	0.0	0.0	0.0	1.0	6.4	10.5	12.4	18.4	15.9	12.3	8.3	2.1
9	0.0	0.0	0.0	1.5	6.4	9.6	12.6	18.5	16.1	10.7	8.3	1.6
10	0.0	0.0	0.0	1.9	6.9	10.6	13.8	18.2	16.2	9.6	7.9	1.7
11	0.0	0.0	0.0	2.1	6.7	8.8	13.4	17.8	15.7	9.8	7.3	1.9
12	0.0	0.0	0.0	3.0	6.8	9.5	13.9	17.3	15.7	11.2	6.5	2.4
13	0.0	0.0	.1	3.9	7.2	9.7	14.4	16.6	15.9	11.3	6.4	3.0
14	0.0	0.0	.1	3.6	7.6	9.8	14.3	16.6	16.0	11.7	6.1	1.9
15	0.0	0.0	.1	3.2	7.1	10.5	14.1	16.5	16.1	12.4	6.2	1.2
16	0.0	0.0	.1	3.4	7.6	11.2	15.2	14.9	16.4	12.8	5.8	.7
17	0.0	0.0	.1	4.4	6.8	11.5	16.5	15.7	15.9	12.2	4.1	.7
18	0.0	0.0	.1	3.1	7.4	11.5	16.9	14.9	15.9	12.2	2.9	1.0
19	0.0	0.0	.2	3.8	7.6	11.2	16.1	13.7	15.3	12.7	2.6	.6
20	0.0	0.0	.2	4.2	8.0	12.0	16.5	13.3	14.8	12.4	2.7	.2
21	0.0	0.0	.2	4.4	8.1	11.6	16.8	15.0	15.0	12.3	3.6	.9
22	0.0	0.0	.2	4.2	8.3	11.0	16.7	13.5	15.6	11.8	3.8	.5
23	0.0	0.0	.2	4.6	8.7	11.9	16.6	14.9	16.2	11.2	4.4	.3
24	0.0	0.0	.3	4.5	8.1	11.3	16.2	14.3	17.0	10.8	4.7	0.0
25	0.0	0.0	.8	4.0	8.6	12.1	16.2	15.7	16.9	10.6	4.0	0.0
26	0.0	0.0	.6	3.0	8.2	12.2	16.7	16.1	16.0	10.0	4.1	.3
27	.1	0.0	.5	3.4	8.2	11.8	17.1	16.3	16.2	10.0	4.0	0.0
28	.1	0.0	.8	4.1	8.3	10.9	17.5	16.9	15.9	9.7	3.8	0.0
29	0.0	0.0	1.1	4.6	8.4	10.9	17.4	16.9	15.8	9.4	3.5	0.0
30	0.0		1.4	4.8	7.5	11.4	16.6	16.4	15.8	9.7	3.6	0.0
31	0.0		.6		8.2		16.6	17.0		9.1		0.0
MEAN	0.0	0.0	.3	2.9	7.1	10.5	14.8	16.2	15.8	11.7	5.8	1.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0								3					3
17.0							3	4	1				11
16.0							12	12	10				45
15.0							1	5	17	1			69
14.0							3	4	2	3			81
13.0							3	3		2			89
12.0						3	5			9			106
11.0						10	4			5			125
10.0						7				5			137
9.0						6				6	2		151
8.0					11	3					7		172
7.0					7	1					2		182
6.0					6						4		192
5.0					7						1		200
4.0				10							6		216
3.0				9							5	6	236
2.0				1							3	4	244
1.0			2	5								6	257
0.0	31	29	29	5								15	366
-1.0													366
-2.0													366

Station No. 7058, Temperatures, Lake Michigan at Milwaukee, Wisconsin, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.1	1.0	1.0	6.7	9.0	**	12.3	**	**	**	**	**
2	1.2	1.0	**	7.0	8.9	**	12.4	**	**	**	**	**
3	1.0	1.0	.9	7.2	8.9	**	13.2	**	**	**	**	**
4	1.1	1.0	.9	**	8.9	**	12.4	**	**	**	**	**
5	1.1	1.0	.9	**	8.9	**	13.6	**	**	**	**	**
6	1.0	1.0	.9	**	8.8	**	14.6	**	**		**	**
7	.9	1.0	.9	**	8.7	14.8	12.2	**	**	**	**	**
8	.9	1.0	.9	**	9.0	12.7	11.2	**	**	**	**	**
9	.9	1.0	.9	**	9.0	12.0	12.3	**	**	**	**	**
10	1.0	1.0	.9	**	8.9	13.9	14.1	**	**	**	**	**
11	1.0	1.0	.9	**	8.9	10.3	15.8	**	**	**	**	**
12	1.0	1.0	.9	**	8.8	10.3	15.2	**	**	**	**	**
13	.9	1.0	.9	**	8.9	10.4	17.0	**	**	**	**	**
14	.9	1.0	.9	**	8.9	9.8	14.8	**	**	**	**	
15	.9	1.0	.9	**	8.9	11.0	13.9		**	**	**	**
16	.9	1.0	.9	**	8.9	12.0	15.8	**	**	**	**	**
17	.9	1.0	.9	**	8.9	13.1	15.8	**	**	**	**	**
18	1.0	1.0	.9	**	**	12.2	**	**	**		**	**
19	**	1.0	.9	**	**	12.0	**		**	**	**	**
20	**	1.0	1.0	**	**	14.1	16.6	**	**	**	**	**
21	**	1.0	1.0	**	**	12.3	12.1	**	**	**	**	
22	1.2	1.0	1.0	11.6	**	11.1	12.7	**	**		**	**
23	1.0	1.0	1.0	10.8	**	11.7	15.7		**	**	**	**
24	1.0	1.0	1.0	10.4	**	11.9	14.5	**	**	**	**	**
25	1.0	1.0	1.0	9.6	**	12.4	17.6	**	**	**	**	**
26	1.0	1.0	3.3	9.3	**	12.0	18.0	**	**		**	**
27	1.0	1.0	5.4	10.4	**	11.5	17.5		**	**	**	**
28	1.0	1.0	6.1	10.5	**	11.5	18.1	**	**	**	**	**
29	1.0	1.0	6.8	10.0	**	12.4	18.2	**	**	**	**	**
30	1.0		6.9	9.1	**	12.3	15.5	**	**	**	**	**
31	1.0		6.7		**		7.8	**		**		**
MEAN	1.0	1.0	1.9	9.4	8.9	12.0	14.5	**	**	**		**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0							3						3
17.0							3						6
16.0							2						8
15.0							5						13
14.0						2	4						19
13.0						2	3						24
12.0						10	7						41
11.0				1		6	1						49
10.0				5		3							57
9.0				3	3	1							64
8.0					14								78
7.0				2			1						81
6.0			4	1									85
5.0			1										87
4.0													87
3.0			1										89
2.0													88
1.0	20	29	7										144
0.0	8		17										169
-1.0													169
-2.0													169

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	4.1	**	12.1	**	13.2	**	**
2	**		**		**	3.6	**	12.6	**	13.8	**	**
3	**	**	**	**	**	4.1	**	12.1	**	13.0	**	**
4	**	**	**	**	**	5.8	**	12.0	**	12.4	**	**
5	**	**	**	**	**	7.1	**	14.2	**	12.1	**	**
6	**	**	**		**	7.7	**	13.4	**	12.2	**	**
7	**	**	**	**	**	7.7	**	13.4	**	12.1	**	**
8	**	**	**	**	**	9.2	**	13.6	**	12.1	**	**
9	**	**	**	**	**	5.3	**	13.9	**	12.0	**	**
10	**		**		**	8.2	**	14.0	**	12.0	**	**
11	**	**	**	**	**	8.6	**	14.0	**	12.0	**	**
12	**	**	**	**	**	4.5	**	14.5	**	12.1	**	**
13	**		**	**	**	6.2	**	14.9	**	12.1	**	**
14	**	**	**	**	**	7.3	**	15.0	**	12.1	**	**
15	**	**	**	**	**	6.2	**	15.1	**	12.2	**	**
16	**	**	**	**	**	6.9	**	15.4	**	12.9	**	**
17	**	**	**		**	8.3	**	15.3	16.8	13.2	**	**
18	**	**	**	**	**	9.0	8.8	15.2	17.2	13.3	**	**
19	**	**	**	**	**	6.7	9.6	15.4	17.1	13.3	**	**
20	**	**	**	**	**	6.6	11.1	14.5	15.5	13.2	**	**
21	**		**		**	7.5	12.0	14.7	14.1	13.0	**	**
22	**	**	**	**	**	7.4	9.7	**	14.8	12.6	**	**
23	**	**	**	**	**	7.5	11.2	**	15.5	12.4	**	**
24	**	**	**	**	**	7.4	11.1	**	13.8	12.5	**	**
25	**		**		**	7.7	11.7	**	13.2	12.4	**	**
26	**	**	**	**	**	8.3	13.0	**	12.7	12.4	**	**
27	**	**	**	**	**	8.5	12.0	**	13.2	12.3	**	**
28	**	**	**	**	**	8.2	11.5	**	13.8	**	**	**
29	**	**	**	**	**	7.2	11.6	**	13.4	12.4	**	**
30	**		**	**	**	8.0	12.3	**	12.8	12.4	**	**
31	**		**		**		11.6	**		12.4		**
MEAN	**	**	**	**	**	7.0	11.2	14.1	14.6	12.5	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													
25.0													
24.0													
23.0													
22.0													
21.0													
20.0													
19.0													
18.0													
17.0									2				
16.0									1				
15.0								6	2				11
14.0								7	2				20
13.0							1	4	5	8			38
12.0							3	4	2	22			69
11.0							7						76
10.0													76
9.0						2	2						80
8.0						7	1						88
7.0						10							98
6.0						5							103
5.0						2							105
4.0						3							108
3.0						1							109
2.0													109
1.0													109
0.0													109
-1.0													109
-2.0													109

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1968

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.6	0.0	0.0	.1	5.8	8.1	9.2	**	**	13.4	7.9	2.0
2	.6	0.0	0.0	.4	6.0	9.6	8.9	**	**	13.6	7.9	2.1
3	.6	0.0	0.0	.1	5.2	8.8	10.0	**	**	12.7	7.3	2.3
4	.6	0.0	0.0	.1	5.8	9.1	11.4	**	**	11.4	7.0	2.5
5	.7	0.0	0.0	.2	5.4	9.8	11.1	**	**	11.7	4.5	1.8
6	.6	0.0	0.0	.1	5.6	8.6	12.3	**	**	11.4	5.3	1.0
7	.7	0.0	0.0	.1	5.8	8.0	14.1		**	11.6	3.8	.4
8	.7	0.0	0.0	.1	5.9	8.2	14.0	**	**	11.9	3.9	2.3
9	.7	0.0	.1	.2	6.6	8.6	14.6	**	**	12.0	3.3	2.0
10	.7	0.0	.1	.2	7.3	7.3	11.1	**	**	11.6	3.4	1.7
11	.7	0.0	.1	.2	7.0	8.3	11.2	**	**	11.3	2.4	2.1
12	.7	0.0	.1	.6	6.6	9.8	12.2	**	**	11.6	2.1	2.2
13	.7	0.0	.1	1.1	6.7	8.3	10.9	**	**	11.7	2.7	1.2
14	.7	0.0	.1	.3	6.1	9.3	12.6		12.8	12.2	3.1	1.2
15	.7	0.0	.1	.2	6.2	9.5	14.0	**	13.3	12.5	3.5	1.6
16	.7	0.0	.1	.7	5.9	10.4	14.3	**	13.3	13.2	3.3	2.5
17	.7	0.0	.1	1.4	5.4	11.2	**	**	12.8	13.1	3.0	1.5
18	.7	0.0	.1	.5	6.8	11.2	**		13.3	12.4	2.4	1.5
19	.7	0.0	.1	1.5	6.3	12.6	**	**	12.8	11.8	2.8	1.6
20	.7	0.0	.1	.8	1.3	10.0	**	**	12.5	11.9	2.2	1.1
21	.6	0.0	.1	.7	7.7	7.4	**	**	14.3	11.7	2.3	.7
22	.6	0.0	.1	.5	6.7	10.0	**		13.6	11.2	2.5	1.5
23	.6	0.0	.1	1.3	6.4	10.8	**	**	13.2	10.0	2.9	2.4
24	.6	0.0	.1	1.6	1.4	10.4	**	**	14.5	8.9	2.1	.7
25	**	0.0	.1	.9	1.4	9.6	**	**	14.1	8.6	2.2	.3
26	**	0.0	.2	2.5	6.3	7.6	**		13.6	9.7	1.7	.3
27	**	0.0	.1	4.2	6.9	7.4	**	**	13.3	9.5	1.8	.3
28	**	0.0	.2	5.0	5.4	7.4	**	**	13.5	7.9	2.0	.3
29	**	0.0	.2	5.5	6.4	8.8	**	**	13.6	6.8	1.3	.3
30	0.0		.1	5.8	7.2	8.6	**	**	13.4	6.5		.4
31	0.0		.1		7.3		**	**		7.3		.4
MEAN	.6	0.0	.1	1.2	6.5	9.2	12.0	**	13.4	11.0	3.5	1.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0							5		3				8
13.0									10	4			22
12.0						1	3		4	5			35
11.0						2	4			13			54
10.0						5	2			1			62
9.0						7	1			2			72
8.0					1	10	1			2			86
7.0					8	5				2	4		105
6.0					12					2	1		120
5.0				3	9						2		134
4.0				1	1								136
3.0											7		143
2.0				1							12	9	165
1.0				5							3	10	183
0.0	26	29	31	20							1	12	302
-1.0													302
-2.0													302

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.4	.2	.2	.4	5.8	10.9	17.0	21.3	22.5	17.4	10.6	5.4
2	.4	.2	.2	.5	6.5	11.2	17.6	21.8	22.4	17.3	10.6	4.8
3	.4	.2	.2	1	6.5	11.5	17.7	21.9	22.4	17.3	10.8	4.6
4	.4	.2	.2	.9	6.8	11.5	17.8	21.8	22.6	16.6	10.8	4.3
5	.3	.2	.2	1.2	7.0	11.5	17.9	21.9	22.5	16.4	10.7	4.3
6	.3	.2	.2	1.4	7.2	11.7	18.1	22.0	22.3	16.4	10.5	3.8
7	.2	.2	.2	1.6	7.3	12.0	18.2	22.0	22.3	16.2	10.6	3.7
8	.2	.2	.2	1.9	7.3	12.2	18.2	22.2	22.0	16.2	10.5	3.7
9	.2	.2	.2	1.7	7.5	12.8	18.3	22.2	21.8	16.0	10.6	3.9
10	.2	.2	.2	2.3	7.5	13.1	18.5	22.2	21.6	15.9	10.3	4.0
11	.2	.2	.2	2.4	7.4	13.5	18.6	22.5	21.1	16.0	10.2	4.0
12	.2	.2	.2	2.6	7.3	13.8	18.7	22.6	20.8	16.0	10.2	3.8
13	.2	.2	.2	3.2	8.2	14.0	18.7	22.5	20.6	15.6	10.0	3.8
14	.2	.1	.2	3.5	8.2	14.4	18.9	22.6	20.1	15.4	9.8	3.7
15	.2	.1	.2	3.9	7.6	14.7	19.1	22.9	20.0	15.0	9.2	3.5
16	.2	.1	.2	4.1	8.3	14.7	19.3	23.1	19.8	14.8	8.7	3.0
17	.2	.1	.2	3.9	8.4	14.9	19.4	23.1	19.6	14.5	8.3	2.9
19	.2	.1	.2	3.8	8.1	15.0	19.5	23.3	19.3	14.1	8.3	2.8
20	.2	.1	.2	3.6	9.0	15.0	19.7	23.2	19.3	13.6	8.6	2.5
	.2	.1	.2	4.2	9.1	15.1	20.0	23.0	19.4	13.7	8.2	2.5
21	.2	.1	.3	4.1	9.5	15.3	20.3	22.7	19.3	13.4	7.7	2.4
22	.2	.1	.4	4.5	9.4	15.0	20.2	22.6	19.3	13.0	7.2	2.3
23	.2	.1	.6	4.4	9.3	14.7	20.1	22.6	19.2	12.2	7.2	1.8
24	.2	.1	.9	4.3	9.1	14.5	20.1	22.8	19.0	11.8	7.0	1.3
25	.2	.1	.7	4.7	9.5	14.6	20.1	22.8	18.6	11.5	6.5	1.2
26	.2	.1	.5	4.8	9.3	15.2	20.0	22.4	18.5	11.4	6.3	.7
27	.2	.1	.5	5.3	9.3	15.8	20.0	**	18.3	11.6	6.1	.3
28	.2	.1	.4	5.2	10.1	16.4	20.0	**	18.0	10.7	5.9	.3
29	.2		.7	5.4	10.2	16.9	20.4	22.2	17.6	10.6	5.9	.4
30	.2		.6	5.4	10.1	17.3	20.9	22.4	17.4	10.9	5.9	.4
31	.2		.4		10.7		21.2	22.4		10.6		.4
MEAN	.2	.1	.3	3.2	5.4	14.0	19.2	22.4	20.3	14.3	8.8	2.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0								5					5
22.0							1	19	8				32
21.0							11	5	3				41
20.0									4				55
19.0							5		9				70
18.0							9		4				83
17.0						1	5		2	3			94
16.0						2				8			104
15.0						7				4			115
14.0						8				3			126
13.0						3				4			133
12.0						3				1			137
11.0						5				4			146
10.0					4	1				4	13		168
9.0					9						2		179
8.0					3						5		187
7.0					11						4		202
6.0					3						3		208
5.0				4	1						3	1	217
4.0				7								6	230
3.0				7								9	246
2.0				3								6	255
1.0				5								3	263
0.0	31	28	31	4								6	363
-1.0													363
-2.0													363

Station No. 1969, Temperatures, Lake Ontario at Olcott, New York, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.9	1.3	1.3	2.1	8.7	10.2	19.7	24.0	25.5	18.8	10.3	3.7
2	.9	1.6	.9	[illegible]	6.7	12.1	19.6	**	21.0	17.3	9.3	5.0
3	.9	1.2	1.0	2.4	8.7	12.7	19.6	25.7	14.4	17.9	9.6	4.3
4	.9	.9	1.3	3.6	8.6	13.7	17.1	25.2	10.2	15.8	10.3	3.4
5	1.0	.9	1.1	4.3	7.8	14.2	18.5	25.3	8.2	14.2	10.3	3.0
6	1.1	1.0	1.4	[illegible]	7.4	13.8	18.1	26.5	17.3	14.2	9.8	3.5
7	1.0	1.1	.8	[illegible]	6.9	14.7	11.3	26.8	23.1	14.4	9.8	3.9
8	1.0	1.1	1.0	[illegible]	7.5	15.9	6.5	26.5	22.9	14.4	9.9	**
9	1.0	1.0	1.0	[illegible]	10.0	16.3	6.2	26.2	21.9	14.1	10.4	**
10	1.0	.9		[illegible]	9.4	15.4	7.5	26.2	21.3	17.8	10.1	1.9
11	1.0	.9	**	9.1	10.1	14.0	17.5	26.0	21.6	14.8	8.2	2.0
12	1.0	1.0	**	6.8	10.6	15.9	18.7	25.4	21.8	15.8	8.2	1.3
13	1.0	1.0	**	5.7	10.6	18.4	20.8	25.3	22.2	15.8	7.9	.7
14	1.0	1.0	**	5.6	11.8	19.3	21.9	25.7	23.3	14.1	8.2	1.2
15	1.0	1.0	**	[illegible]	11.7	17.8	21.9	25.6	23.5	14.7	6.1	.6
16	1.0	.9	**	7.0	10.7	17.9	21.8	25.5	23.3	15.4	5.6	.2
17	1.2	.9	**	7.4	11.6	18.4	**	25.9	22.5	15.5	7.4	0.0
18	1.1	.8	**	7.8	11.9	17.6	**	26.4	21.4	12.3	7.7	.4
19	1.1	.8	**	7.6	10.4	16.0	**	26.3	17.8	12.8	8.0	.2
20	1.6	.9	**	[illegible]	11.8	16.0	**	20.1	8.3	14.7	5.8	0.0
21	1.4	.9	**	8.0	12.3	16.9	**	22.1	9.1	15.1	3.8	.2
22	2.1	1.1	**	8.1	9.0	15.4	**	23.5	13.1	12.1	4.8	0.0
23	2.5	1.0	**	8.7	7.3	11.2	**	23.8	13.3	9.6	5.8	0.0
24	2.2	1.1	**	[illegible]	10.0	14.4	**	25.0	17.0	9.2	4.6	0.0
25	.9	1.0	**	9.5	11.0	15.0	**	25.7	16.3	9.6	5.4	0.0
26	.9	1.0	**	9.7	11.3	12.4	**	23.9	16.7	10.8	5.2	0.0
27	.9	1.0	**	10.3	11.1	14.9	**	17.0	18.0	10.4	4.9	0.0
28	1.0	1.0	**	9.2	11.7	18.7	**	22.7	17.5	11.1	4.6	0.0
29	1.0		**	9.3	14.4	20.3	**	23.8	18.1	10.7	3.8	0.0
30	1.1		**	9.5	16.3	19.1	**	25.0	18.6	10.8	2.6	0.0
31	1.1		**		15.0		**	25.5		10.8		0.0
MEAN	1.2	1.0	1.1	7.2	10.4	15.6	16.7	24.8	18.3	13.9	7.3	1.2

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0								8					8
25.0								13	1				22
24.0								1					23
23.0								4	4				31
22.0								2	3				36
21.0							3		6				45
20.0						1	1	1					48
19.0						2	3						53
18.0						3	3		3	1			63
17.0						3	2	1	4	7			80
16.0					1	4			2	2			89
15.0					1	5				1			96
14.0					1	5			1	2			105
13.0						2			2	5			114
12.0					1	3				5			123
11.0					9	1	1			2			136
10.0				1	7	1			1	3	5		154
9.0				7	2				1	3	5		172
8.0				5	3				2		4		186
7.0				4	4		1				3		198
6.0				5	2		2				1		208
5.0				2							5	1	216
4.0				2							4	1	223
3.0				1							2	5	231
2.0	3			2							1	1	238
1.0	21	18	7									3	287
0.0	7	10	2									18	324
-1.0													324
-2.0													324

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	**	**	**	17.8	**	
2	**	**	**	**	**	**	**	**	**	17.5	**	**
3	**	**	**	**	**		**	**	**	17.3	**	**
4	**	**	**	**	**	**	**	**	**	16.9	**	**
5	**	**	**	**	**	**	**	23.8	**	17.0	**	**
6	**	**	**	**	**	**	**	23.6	**	17.0	**	**
7	**	**		**		**		23.3	**	16.9	**	**
8	**	**	**	**	**	**	**	23.2	21.5	16.7	**	**
9	**	**	**	**	**	**	**	22.8	21.4	16.4	**	**
10	**	**		**	**	**	**	22.7	21.4	16.4	**	2.7
11	**	**	**	**		**		**	21.4	16.4	**	2.8
12	**	**	**	**	**	**	**	**	21.4	16.5	**	2.7
13	**	**	**	**	**	**	**	**	21.3	16.7	**	2.2
14	**	**		**		**	**	**	21.3	16.5	**	2.4
15	**	**	**	**	**	**		24.0	21.4	16.0	**	2.5
16	**	**	**	**	**	**	**	23.9	21.1	15.4	**	2.7
17	**	**	**	**	**	**	**	24.0	20.5	14.3	**	2.8
18	**	**		**		**		24.2	20.0	13.3	**	2.6
19	**	**	**	**	**	**		24.3	19.5	12.7	**	2.6
20	**	**	**	**	**	**	**	**	19.2	13.4	**	2.2
21		**	**	**	**	**	**	**	19.3	13.4	**	2.3
22	**	**		**		**		**	19.5	12.6	**	2.3
23	**	**	**	**	**	**	**	**	19.5	11.6	**	2.2
24	**	**	**	**	**	**	**	**	19.3	11.4	**	2.2
25	**	**	**	**	**	**	**	**	18.9	11.5	**	2.2
26	**	**		**		**		**	18.7	11.6	**	2.2
27	**	**	**	**	**	**	**	**	18.2	11.3	**	2.2
28	**	**	**	**	**	**	**	**	17.9	10.9	**	2.1
29	**			**	**	**	**	**	17.8	10.5	**	2.1
30	**		**	**		**		**	17.7	10.8	**	2.1
31	**		**		**		**	**		10.2		2.1
MEAN	**	**		**		**		23.6	19.9	14.4	**	2.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								4					4
23.0								5					9
22.0								2					11
21.0									9				20
20.0									2				22
19.0									6				28
18.0									3				31
17.0									3	5			39
16.0										10			49
15.0										1			50
14.0										1			51
13.0										3			54
12.0										2			56
11.0										5			61
10.0										4			65
9.0													65
8.0													65
7.0													65
5.0													65
4.0													65
3.0													65
													65
1.0												22	87
0.0													87
													87
-1.0													87
-2.0													87

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.5	1.2	1.0	3.4	**	**	**	**	23.1	18.7	9.9	**
2	.5	1.0	1.0	3.9	**	**	**	**	23.3	18.6	9.8	6.0
3	.5	.7	1.2	4.2	**	**	**	**	23.8	18.2	9.7	6.0
4	.6	.4	1.4	4.7	**	**	**	**	24.2	18.0	9.7	6.0
5	.6	.4	1.3	5.4	**		**	**	24.3	17.6	9.7	4.8
6	.4	.4	1.3	5.8	**	**	**	**	24.2	17.8	9.7	3.0
7	.4	.5	1.2	5.8	**	**	**	21.7	24.0	17.5	9.7	3.1
8	.5	.5	1.1	5.7	**	**	**	23.1	23.8	17.3	9.5	3.4
9	.5	.5	1.1	5.9	**	**	**	23.1	22.5	17.0	9.5	3.6
10	.5	.4	.9	7.1	**	**	**	23.2	21.4	17.1	9.5	3.5
11	.5	.4	.7	8.1	**	**	**	24.2	21.5	16.8	9.4	3.5
12	.5	.4	.8	7.4	**		**	24.3	21.2	16.9	9.2	3.5
13	.5	.5	.7	7.6	**	**	**	23.6	21.4	17.1	9.2	3.5
14	.5	.5	.7	7.7	**	**	**	23.3	21.1	16.8	9.2	3.5
15	.6	.5	.7	7.7	**	**	**	23.0	21.0	16.5	9.2	3.5
16	.9	.6	.7	8.6	**	**		23.1	21.2	16.1	9.2	2.0
17	.7	.6	.9	8.2	14.9	**	**	23.3	20.8	15.8	9.3	.6
18	.7	.6	1.3	**	14.3	**	**	23.1	20.0	14.6	9.3	.6
19	.5	.8	1.9	**	15.2	**	**	23.9	19.7	14.1	9.3	.6
20	.5	1.0	2.6	**	15.7	**	**	23.9	19.5	14.0	9.1	.6
21	.7	1.1	3.0	**	15.4	**	**	23.6	19.5	14.2	8.8	.7
22	.8	1.1	3.8	**	15.0	**	**	23.8	19.4	13.0	8.6	.7
23	1.0	.7	4.1	**	15.0	**		24.0	19.5	11.3	8.4	.7
24	1.0	.7	3.8	**	15.5	**	**	24.4	19.5	10.6	8.0	.5
25	.4	.7	4.1	**	15.0	**	**	25.3	19.4	10.5	6.0	.5
26	.4	.9	4.2	**	15.4	**	**	25.4	18.9	10.2	**	.5
27	.7	.9	3.9	**	15.5	**		24.7	18.5	10.3	**	.7
28	.6	.9	4.3	**	16.2	**	**	24.3	18.5	10.4	**	.5
29	.6		4.4	**	17.6	**	**	24.3	18.5	10.1	**	.6
30	.8		3.4	**	18.2	**	**	24.0	**	10.0	**	.6
31	1.2		2.6		17.4		**	23.5		10.0		.7
MEAN	.6	.7	2.1	6.3	15.8	**	**	23.8	21.2	14.7	9.2	2.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0								2					2
24.0								8	4				
23.0								14	4				
22.0									1				
21.0								1	7				
20.0									2				43
									7				50
18.0					1				4	4			59
17.0					2					7			68
16.0					1					5			74
					9					1			84
14.0					2					4			90
13.0										1			91
12.0													91
11.0										1			92
10.0										8			100
9.0											20		120
8.0				3							4		127
7.0				5									132
6.0											1	3	136
5.0				5									141
4.0			5	2								1	149
3.0			5	2								10	166
2.0			2									1	169
1.0	3	5	11										188
0.0	28	23	8									15	262
-1.0													262
-2.0													262

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**		1.3	8.8	12.4	16.0	19.6	21.1	18.0		
2	**	**	**	1.9	8.3	12.0	16.5	20.8	21.0	18.1		
3	**	**	**	2.0	7.6	11.3	17.0	21.2	21.6	18.2		
4	**	**	**	2.2	9.5	11.0	17.0	21.7	21.6	18.1		
5	**	**	**	2.6	11.1	11.0	17.3	22.0	21.5	18.0		
6	**	**	**	3.8	10.6	10.9	18.1	21.7	21.5	18.0		
7	**	**	**	4.4	9.6	11.4	17.6	21.3	21.5	18.0		
8	**	**	**	4.2	9.3	12.0	17.5	20.4	21.5	18.2		
9	**	**	**	4.2	9.7	12.7	18.6	20.0	21.4	18.1		
10	**	**		4.3	10.0	12.5	18.5	20.8	21.3	18.1		
11	**	**	**	5.1	9.9	12.4	19.1	21.4	21.3	18.0		
12	**	**	**	6.4	10.0	12.8	18.8	21.9	21.4	18.1		
13	**		**	7.1	9.8	12.7	19.7	22.1	21.3	18.2		
14	**	**	**	7.8	10.1	12.8	20.1	21.8	21.2	18.0		
15	**	**	**	7.7	10.1	12.6	20.1	22.1	21.2	18.0		
16	**	**	**	6.9	8.9	13.0	20.3	22.0	21.2	17.3		
17	**	**	**	7.2	8.0	13.2	21.5	22.3	21.1	**		
18	**	**	**	6.6	8.1	13.2	21.6	22.0	18.0	**		
19	**	**	**	5.4	8.8	13.4	21.0	22.5	17.9	**		
20	**		**	5.7	9.2	13.5	21.6	21.2	18.1	**		
21	**	**	**	5.9	9.4	14.1	22.5	20.6	18.0	**		
22	**	**	**	5.0	9.8	14.5	23.0	20.8	18.0	**		
23	**	**	**	5.9	10.0	14.7	23.5	21.1	18.0	**		
24	**		**	6.5	10.2	14.6	23.5	21.0	18.0	**		
25	**		**	7.3	9.9	15.2	23.2	20.8	18.1	**		
26	**	**	**	7.8	9.6	15.1	23.1	20.5	18.1	**		
27	**	**	**	7.0	9.7	15.4	22.0	20.6	18.0	8.7		
28	**		**	6.2	10.2	2	20.3	21.0	18.1	8.9		
29	**		**	7.1	11.0	15.5	19.6	21.5	18.2	9.1		
30	**		**	8.0	11.3	15.7	19.3	21.1	18.0	**		
31	**		**		12.2		19.1	20.9		**		
MEAN	**	**	**	5.4	9.7	13.2	19.9	21.2	19.5	16.6		

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0							5						5
22.0							2	7					14
21.0							4	13	17				48
20.0							4	10					62
19.0							5	1					68
18.0							4		12	15			99
17.0							5		1	1			106
16.0							2						108
15.0						6							114
14.0						4							118
13.0						5							123
12.0					1	10							134
11.0					3	4							141
10.0					8	1							150
9.0					12								163
8.0				1	6								172
7.0				8	1								181
6.0				5									186
5.0				6									192
4.0				4									196
3.0													197
2.0													200
1.0													202
0.0													202
-1.0													202
-2.0													202

Station No. 4098, Temperatures, St. Clair River at Port Huron, Michigan, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1											9.4	3.3
2											9.7	3.1
3											9.5	2.9
4											9.0	2.3
											8.6	2.3
6											**	2.4
7											**	2.8
8											9.5	3.6
9											9.0	3.7
10											8.6	4.1
11											8.6	4.1
12											9.1	4.0
13											7.8	3.9
14											7.2	3.5
15											5.4	3.2
16											6.0	2.5
17											6.2	2.2
18											7.6	2.2
19											7.6	2.2
20											6.2	2.1
21											4.8	2.1
22											4.9	1.9
23											**	2.0
24											**	2.2
25											**	2.1
26											5.4	2.1
27											4.7	2.0
28											4.1	2.0
29											3.8	2.0
30											3.1	2.0
31												2.0
MEAN											7.0	2.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0													0
11.0													0
10.0													0
9.0											1		0
8.0											3		7
7.0											4		10
6.0											3		14
5.0													17
4.0											2	3	19
3.0											2	7	26
2.0											2	20	35
1.0													55
0.0												1	56
-2.0													58

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.1	1.0	2.1	1.2	10.0	14.3	16.4	**	20.3	16.0	8.5	5.9
2	.4	.9	2.3	1.7	11.0	10.7	**	**	20.6	16.0	8.7	5.6
3	.7	1.4	1.9	3.3	9.9	10.3	**	**	21.8	16.5	9.3	5.6
4	.8	.8	1.8	4.0	10.7	10.0	**	**	22.9	17.1	8.7	5.4
5	.4	1.4	3.2	3.7	11.1	10.2	**	**	17.2	16.6	9.1	5.2
6	.6	1.2	2.3	4.6	11.4	10.1	**	**	13.6	15.5	9.1	5.2
7	1.3	1.1	2.7	5.8	10.7	11.0	**	17.4	16.4	10.8	9.1	5.0
8	.9	1.4	2.3	5.7	11.3	12.2	**	10.6	17.3	10.8	8.3	5.0
9	.7	1.0	2.0	7.6	9.6	12.8	**	16.6	17.8	11.3	7.9	5.0
10	1.3	1.5	1.8	6.9	9.4	13.7	**	19.4	17.3	12.2	7.8	5.0
11	1.1	1.3	1.8	6.5	9.5	13.2	**	19.9	17.6	13.1	8.0	**
12	1.0	1.5	2.6	7.8	9.6	12.8	**	20.6	18.1	13.3	7.9	**
13	1.2	1.3	2.9	8.4	9.2	16.3	**	21.5	18.9	13.1	7.4	**
14	1.4	1.0	2.2	7.8	**	16.1	**	20.5	19.3	12.2	7.0	**
15	1.3	.9	2.4	9.6	**	16.4	**	19.9	19.6	11.4	5.8	**
16	.3	1.2	2.2	8.2	**	16.4	**	19.6	19.8	11.2	4.9	**
17	.2	2.3	3.3	8.1	8.9	16.4	**	18.2	19.3	10.9	4.9	.9
18	.5	2.2	3.9	7.6	8.7	16.4	**	19.1	18.5	10.8	8.3	.9
19	1.2	3.1	4.7	6.2	9.0	16.4	**	**	17.7	10.2	8.1	.9
20	1.1	2.2	3.5	7.1	9.3	16.4	**	21.7	18.2	11.0	7.5	.8
21	.9	2.0	3.3	7.7	8.2	16.4	**	21.4	18.3	11.3	7.2	.8
22	1.0	2.0	4.0	6.9	9.9	16.4	**	21.6	18.6	10.3	7.1	.8
23	1.3	2.0	4.2	6.4	10.6	16.3	**	22.1	18.5	8.6	6.8	.8
24	.7	2.1	4.6	6.5	10.6	16.4	**	22.5	18.1	7.4	6.7	.8
25	.3	2.5	4.4	7.4	10.5	16.4	**	22.9	16.9	7.6	6.7	.8
26	.4	1.3	2.8	7.8	11.9	16.4	**	23.5	16.3	8.3	6.7	.6
27	.4	1.9	2.9	8.6	11.8	16.4	**	22.4	16.4	8.1	6.8	.4
28	.3	2.5	2.7	8.2	10.1	16.4	**	21.3	15.9	8.1	6.9	.4
29	.3		3.2	7.9	10.1	16.4	**	22.2	15.4	8.2	6.3	.4
30	.4		1.4	8.8	12.1	16.4	**	21.6	15.7	8.2	6.0	.5
31	.8		1.0		14.4		**	19.1		7.8		1.5
MEAN	.7	1.6	2.8	6.6	10.3	14.5	16.4	20.2	18.1	11.4	7.4	2.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													
24.0													
23.0								1					
22.0								5	1				7
21.0								6	1				14
20.0								2	2				18
19.0								6	4				28
18.0								1	8				37
17.0								1	6	1			45
16.0						18	1	1	4	4			73
15.0									3	1			77
14.0					1	1							79
13.0						2			1	3			85
12.0					1	3				2			91
11.0					6	1				5			103
10.0					8	5		1		6			123
9.0				1	9						4		137
8.0				6	3					6	7		159
7.0				9						3	8		179
6.0				6							8		193
5.0				2							1	10	206
4.0			5	2							2		215
3.0		1	6	2									224
1.0		8	14										246
0.0	11	16	6	2								1	282
	20	3										14	319
-1.0													319
-2.0													319

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	.1	.1	0.0	4.7	8.1	12.6	18.1	**	**	**	2.2
2	.1	.1	.1	0.0	4.9	9.2	12.5	18.3	**	**	**	2.8
3	.1	0.0	.1	.1	5.1	8.6	13.5	18.9	**	**	**	1.6
4	.1	0.0	.1	.1	5.5	8.9	13.8	19.4	**	**	**	1.6
5	.1	.1	.1	0.0	6.2	9.2	11.9	19.0	**	**	**	1.7
6	.1	.1	.1	0.0	6.2	9.4	13.6	19.4	**	**	**	2.0
7	.1	.1	.1	0.0	5.6	10.0	13.5	18.1	**	**	**	1.9
8	.1	.1	.1	.1	5.9	10.2	13.8	18.5	**	**	**	1.7
9	.1	.1	.1	.1	5.6	10.3	12.6	18.2	**	**	**	1.7
10	.1	.1	.1	.1	5.6	10.6	13.8	18.8	**	**	**	1.9
11	.1	.1	.1	.1	5.4	11.4	15.0	19.1	**	**	5.7	2.0
12	.1	.1	.1	.1	6.1	11.1	**	18.7	**	**	6.3	2.1
13	.1	.1	.1	.1	6.4	11.2	**	19.3	**	**	6.2	2.0
14	.1	.1	.1	.1	10.5	11.2	**	19.2	**	**	5.9	1.3
15	.1	.1	.1	.1	6.9	11.4	17.6	19.4	**	**	5.4	.6
16	.1	.1	.1	.1	6.3	11.6	19.0	19.8	**	**	4.8	.5
17	.1	.1	.1	.1	6.8	11.8	18.6	20.1	**	**	4.7	1.1
18	.1	.1	.1	.1	6.7	11.3	18.6	19.6	**	**	5.2	1.3
19	.1	.1	.1	.1	6.4	11.0	18.9	19.8	**	**	4.9	1.1
20	.1	.1	.1	**	7.0	12.1	18.7	19.5	**	**	3.6	.9
21	.1	.1	.1	**	7.4	12.0	19.3	19.5	15.4		2.6	.8
22	.1	.1	.1	3.1	6.8	11.7	19.3	19.2	14.8	**	2.9	.2
24	.1	.1	.1	3.5	7.5	10.4	16.1	19.6	15.1	**	2.7	.5
25	.1	.1	.1	3.4	8.2	10.9	17.3	20.1	14.3	**	2.9	.2
	.1	.1	.1	3.7	8.4	11.5	18.4	20.4	**		3.1	0.0
26	.1	.1	.1	4.2	8.7	9.4	19.5	20.0	**	**	2.5	0.0
27	.1	.1	.1	4.4	8.3	10.4	19.4	17.8	**	**	2.6	0.0
28												
29	.1	.1	.1	3.9	8.1	11.4	17.9	18.2	**	**	2.7	0.0
30	.1		.1	3.2	9.3	12.1	18.2	19.0	**		2.7	0.0
	.1		.1	4.3	9.8	11.4	18.6	17.8	**	**	2.9	0.0
31	.1		.1		10.3		17.7	18.7		**		0.0
MEAN	.1	.1	.1	1.3	7.0	10.7	16.4	19.1	14.9	**	4.1	1.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
													0
25.0													0
24.0													
23.0													0
													0
21.0													0
20.0													4
								4					24
18.0							7	10					41
													47
16.0							1	2	2				48
15.0							1		2				51
14.0													53
13.0						3	6						59
12.0						13	3						65
11.0					2		1						79
10.0					2	7							85
						4							94
8.0					5	3							102
7.0													105
					7						3		118
5.0				3	12						3		128
4.0				6							2		136
3.0													
2.0											9		144159
1.0												6	
0.0	31	28	31	19								1411	170293
-1.0													293
-2.0													293

Station No. 7058, Temperatures, Lake Michigan at Milwaukee, Wisconsin, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	**	**	**	**	**	**
2	**	**	**	**	**	**	**	**	**		**	**
3	**		**	**	**	**	**	**	**	**	**	**
4	**	**	**		**	**	**	**	**	**	**	**
5	**	**	**	**	**	**	**			**	**	**
6	**	**	**	**	**	**	**	**	**	**		**
7	**	**	**	**	**	**	**	**	**	**	**	**
8	**	**	**		**	**	**	**	**	**	**	**
9	**	**	**	**	**	**	**		**	**	**	**
10	**	**	**	**	**	**	**	**	**	**	**	**
11	**		**	**	**	**	**	**	**	**	**	**
12	**	**	**		**		**	**	**	**	**	**
13	**	**	**	**	**	**	**		**	**	**	**
14	**	**	**	**	**	**	**	**	**	**	**	
15	**		**	**	**	**	**	**	**	**	**	**
16	**	**	**		**		**	**	**	**	**	**
17	**	**	**	**	**	**	**		**	**	**	**
18	**	**	**	**	**	**	**	**	**	**	**	**
19	**	**	**	**	**	**	**	**	**	**	**	**
20	**	**	**	**	**	**	**	**	**	**	**	**
21	**	**	**	**	**	**	**		**	**	**	**
22	**	**	**	**	**	**	**	**	**	**	**	
23	**	**	**	**	**	**	**	**	**	**	**	**
24	**	**	**	**	**	**	**	**	**	**	**	**
25	**	**	**	**	**	**	**	**	**	**	**	**
26	**	**	**	**	**	**	**	**	**	**	**	
27	**	**	**	**	**	**	**	**	**	**	**	**
28	**	**	**	**	**	**	**	**	**	**	**	**
29	**		**	**	**	**	**	**	**	**	**	**
30			**	**	**	**	**	**	**	**	**	**
31	**		**		**		**	**		**		**
MEAN	* *	**	**	**	**	**	**	**	**	**	**	

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0													0
11.0													0
10.0													0
9.0													0
8.0													0
7.0													0
6.0													0
5.0													0
4.0													0
3.0													0
2.0													0
1.0													0
0.0													0
-1.0													0
-2.0													0

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**		**	**	**	**	8.8	14.2	**	13.5	8.6	2.4
2	**	**	**	**	**	**	8.8	14.0	**	14.3	8.2	2.7
3	**	**	**	**	**	**	8.9	15.4	**	13.9	8.0	2.6
4	**	**	**	**	**	6.8	8.9	16.4	**	13.5	8.0	2.4
5	**	**	**	**	**	7.2	8.9	15.4	**	13.6	8.2	2.9
6	**	**	**	**	**	8.5	8.8	16.7	**	13.6	8.2	1.7
7	**	**	**	**	**	9.0	8.8	15.8	**	13.5	8.2	2.5
8	**	**	**	**	**	9.1	8.9	15.3	**	12.6	8.2	2.2
9	**	**	**	**	**	9.1	8.9	15.6	**	12.3	8.0	.3
10	**	**	**	**	**	9.6	8.9	16.1	**	12.7	7.9	.6
11	**	**	**	**	**	9.6	8.9	16.9	**	12.5	7.4	1.9
12	**	**	**	**	**	9.6	8.9	17.4	**	12.1	7.6	2.9
13	**		**		**	9.5	8.9	17.2	**	12.3	7.0	1.6
14	**	**	**	**	**	9.4	8.9	17.5	**	11.5	6.9	2.5
15	**	**	**	**	**	9.4	8.9	18.0	**	11.0	6.2	2.0
16	**	**	**	**	**	9.4	**	18.1	**	10.9	5.4	2.4
17	**		**	**	**	9.3	13.0	18.1	**	10.3	4.9	2.2
18	**	**	**	**	**	9.2	12.9	17.9	**	10.1	5.8	1.5
19	**	**	**	**	**	9.2	13.7	17.8	16.6	10.5	5.9	1.6
20	**	**	**		**	9.0	13.5	17.5	16.0	10.7	4.8	2.3
21	**		**	**	**	9.0	13.3	17.6	16.1	9.8	4.3	1.9
22	**	**	**	**	**	9.1	14.6	17.7	16.2	8.9	4.7	.9
23	**	**	**	**	**	9.0	16.3	17.8	15.8	8.6	4.7	.2
24	**	**	**		**	9.0	13.5	18.3	14.9	8.4	4.7	.3
25	**		**	**	**	8.9	13.8	18.5	14.6	8.6	4.2	0.0
26	**	**	**	**	**	8.9	14.3	18.5	14.1	8.8	4.0	0.0
27	**	**	**	**	**	8.9	16.2	18.1	14.4	8.0	4.4	.2
28	**	**	**		**	9.0	15.5	17.7	14.3	7.6	3.8	.7
29	**		**	**	**	9.0	14.8	**	14.1	7.9	4.1	.4
30	**		**	**	**	9.0	15.9	**	13.6	8.0	4.0	0.0
31	**		**		**		15.6	**		7.8		.2
MEAN	**	**	**	**	**	9.0	11.7	17.0	15.1	10.9	6.2	1.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													
24.0													
23.0													
22.0													0
21.0													0
20.0													0
19.0													0
18.0								7					7
17.0								10					17
16.0							2	4	4				27
15.0							3	5	1				36
14.0							3	2	6	1			48
13.0							6		1	6			61
12.0							1			6			68
11.0										2			70
10.0										5			75
9.0						21				1			97
8.0						4	15			7	9		132
7.0						1				3	4		140
6.0						1					2		143
5.0											3		145
4.0											11		157
3.0											1		158
2.0												13	171
1.0												6	177
0.0												12	189
-1.0													189
-2.0													189

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1969

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1											6.8	
2	.4	.1	.1	.1	**	8.8	12.5	17.8	18.8	13.9	6.3	.8
3	.3	.1	.1	.1	**	9.1	12.6	18.5	19.1	13.9	5.7	1.4
4	.3	.1	.1	.1	7.4	8.5	12.1	18.9	19.3	13.7	5.7	1.6
5	.3	.1	.1	.1	6.0	8.7	11.1	19.1	18.8	10.4	5.8	1.6
	.3	.1	.1	.1	5.9	9.0	11.6	18.9	19.0	12.7	6.2	1.7
6	.3	.1	.1	.1	6.6	9.4	9.3	17.4	19.3	11.1		1.1
7	.2	.1	.1	.1	7.5	10.9	7.7	17.0	18.4	11.8	6.8	1.0
9	.1	.1	.1	.1	8.2	9.5	6.4	16.5	15.7	11.8	6.7	.8
10	.1	.1	.1	.1	7.7	11.6	7.7	18.1	8.7	11.1	6.9	.4
		.1	.1	.1	8.4	12.1	11.9	18.7	10.5	11.1	6.7	
11	.1	.1	.1	.1	7.9	11.0	12.3	17.8	12.8	10.5	5.5	.1
12	.1	.1	.1	.1	7.7	9.7	12.1	16.6	14.1	9.5	5.8	.1
13	.1	.1	.1	.1	7.9	10.2	13.3	17.8	15.6	9.0	4.8	.3
14	.1	.1	.1	.1	6.7	11.0	14.4	18.2	15.7	8.7	3.8	.6
15	.1	.1	.1	.1	7.4	11.0	14.9	18.1	16.3	8.7	3.1	.1
16	.1	.1	.1	.1	8.2	11.5	15.4	18.4	16.0	8.6	3.3	1.1
17	.1	.1	.1	.1	8.0	12.2	15.9	18.3	15.4	8.5	3.7	.5
18	.1	.1	.1	.1	7.2	11.4	16.9	18.3	14.7	8.1	4.0	.3
19	.1	.1	.1	.1	6.3	12.3	16.2	18.1	14.4	8.0	3.5	.1
20	.1	.1	.1		6.7	12.7	16.6	16.7	14.8	8.0	2.2	.1
21	.1	.1	.1	**	7.3	11.8	17.4	16.4	15.6	6.6	1.4	.1
22	.1	.1	.1	**	8.4	10.6	12.0	18.0	15.8	5.7	2.2	.1
23	.1	.1	.1	**	9.4	10.4	8.2	18.5	14.8	5.2	2.6	.2
24	.1	.1	.1	**	9.8	10.5	17.6	18.6	13.3	6.7	2.5	1.1
25	.1	.1	.1	**	9.0	8.9	17.8	18.6	13.5	7.2	2.4	.2
26	.1	.1	.1	**	7.1	9.2	18.1	17.3	13.6	6.6	1.4	.6
28	.1	.1	.1	**	7.4	10.7	16.3	18.7	14.2	5.7	.5	.5
29	.1	.1	.1	**	8.8	11.6	15.8	19.2	14.0	5.6	1.3	.3
	.1		.1	**	11.4	10.8	16.6	19.1	13.5	5.8	.8	.5
30	.1		.1	**	10.3	11.8	18.5	19.3	13.2	5.9	1.0	.1
31	.1		.1		7.7		17.7	19.1		5.1		.5
MEAN	.1	.1	.1	.1	7.9	10.6	13.8	18.1	15.3	4.0	4.0	.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0								5	4				9
18.0							2	16	3				30
17.0							4	6					40
16.0							5	4	2				51
15.0							3		6				60
14.0							2		7				69
13.0							1		5	4			79
12.0						4	6		1	4			94
11.0					1	9	3			2			109
10.0					1	7			1	1			119
9.0					3	6	1			2			131
8.0					6	4	1		1	7			150
7.0					12		2			1			165
6.0					5		1			5	8		184
5.0					1					5	4		194
4.0											2		196
3.0											5		201
2.0											5		206
1.0											4	8	218
0.0	31	28	31	19							2	23	352
-1.0													352
-2.0													352

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2	.5	.4	.2	.8	7.2	11.8	16.8	21.9	21.0	17.4	12.6	6.6
	.5	.4	.2	1.0	7.8	12.5	17.0	21.9	21.0	17.2	13.1	6.5
3	.5	.5	.2	.8	7.6	13.1	17.2	22.0	20.8	17.0	13.3	6.2
4	.5	.5	.3	1.1	7.8	13.0	17.0	21.9	20.7	16.7	13.0	5.8
6	.5	.4	.2	1.2	8.2	13.4	17.0	22.0	20.5	16.4	12.8	5.3
7	.5	.4	.3	1.3	7.8	13.5	17.1	22.2	**	16.2	12.4	5.4
8	.4	.2	.2	1.6	7.5	13.5	17.3	22.2	**	16.3	12.3	4.9
9	.4	.1	.3	1.7	7.7	13.8	17.6	22.2	20.1	16.6	12.1	4.4
10	.4	.2	.4	2.2	8.0	14.3	17.9	22.2	20.1	16.8	11.9	4.1
11	.4	.3	.4	2.1	8.4	14.6	18.0	22.7	20.0	16.7	11.6	4.2
	.4	.3	.3	1.8	8.4	14.8	18.2	23.0	19.8	16.6	11.8	4.0
12	.7	.3	.2	1.9	8.5	14.9	18.4	23.3	19.2	16.5	11.8	3.5
13	.6	.3	.2	2.3	8.5	15.2	18.5	23.2	18.8	16.6	11.6	3.1
14	.6	.4	.3	2.6	8.5	15.2	18.5	23.2	18.6	16.6	11.2	2.8
15	.5	.3	.3	2.8	8.5	15.7	18.7	23.2	18.5	16.6	10.6	2.2
16	.4	.3	.4	3.1	8.6	15.8	19.1	23.0	18.3	16.1	10.5	2.1
17	.4	.2	.3	3.9	8.9	15.4	19.4	23.1	18.2	15.5	10.2	2.5
18	.5	.2	.3	3.8	9.3	15.1	19.5	22.8	18.4	15.0	10.0	2.8
19	.5	.3	.3	3.8	9.6	15.5	19.5	22.7	18.4	14.7	9.8	2.6
20	.5	.2	.3	3.9	9.8	15.7	19.1	22.9	18.4	14.7	9.4	1.9
21	.5	.3	.4	**	10.0	15.4	19.0	22.9	**	14.5	8.8	1.3
22	.5	.2	.4	**	10.2	16.2	19.0	22.7	18.9	14.4	8.4	1.2
23	.4	.3	.4	**	10.5	16.6	19.6	22.3	18.9	14.1	7.9	1.1
24	.4	.3	.4	4.2	10.6	17.0	19.8	22.2	18.8	13.9	7.6	1.0
25	.4	.4	.6	4.7	10.7	17.0	19.8	22.2	18.9	13.5	7.3	1.0
27	.4	.4	.7	5.0	11.2	17.1	20.2	21.9	19.0	13.3	7.1	1.0
28	.4	.4	.5	5.5	11.1	17.1	20.4	21.9	**	13.1	7.1	1.0
	.4	.2	.6	5.6	10.8	17.0	20.7	21.9	18.4	13.1	6.9	**
29	.4		.5	6.0	11.0	17.2	21.2	21.7	18.1	13.0	6.9	**
30	.4		.3	6.4	11.4	16.8	21.5	21.3	17.6	12.8	7.0	**
31	.4		.4		11.8		21.5	20.9		12.7		**
MEAN	.5	.3	.4	3.0	9.2	15.1	18.9	22.4	19.2	15.3	10.2	3.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													
23.0								7					.
22.0								15					22
21.0								8	2				35
20.0							3	1	6				45
19.0							10		3				58
18.0							6		14				78
17.0							8			3			95
16.0						3	1		1	13			113
15.0						9				2			124
14.0						4				5			133
13.0						6				6	3		148
12.0						1				2	5		156
11.0					5	1					6		159
10.0					6						4		179
9.0					3						2		183
8.0					10						2		195
7.0					7						6		208
6.0				2							2	3	215
5.0				3								3	221
4.0				2								5	228
3.0				5								2	235
2.0				5								6	246
1.0				8								8	262
0.0	31	28	31	2									354
-1.0													354
-2.0													354

Station No. 2076, Temperatures, Lake Ontario at Olcott, New York, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.1	0.0	0.0	2.6	8.0	**	16.2	23.0	20.2	16.1	**	**
2	.6	0.0	0.0	2.6	8.7	**	12.7	23.0	20.4	16.5	**	**
3	.2	0.0	0.0	2.9	8.2	**	12.4	23.0	19.8	16.0	**	**
4	0.0	0.0	0.0	3.9	8.5	13.6	**	22.2	20.1	15.2	**	
5	0.0	0.0	0.0	3.9	9.5	15.7	**	22.9	19.5	14.8	**	**
6	0.0	0.0	.1	4.6	8.6	17.0	**	22.5	19.0	14.8	7.9	**
7	0.0	0.0	0.0	4.2	7.8	**	**	22.1	19.8	14.7	8.2	2.5
8	0.0	0.0	0.0	6.2	7.8	**	**	20.8	12.2	14.8	8.9	2.2
9	0.0	0.0	0.0	7.9	7.8	**	**	13.2	15.8	14.7	9.4	2.9
10	0.0	0.0	0.0	4.9	8.9	**	**	8.1	15.2	14.8	9.9	2.7
11	0.0	0.0	0.0	3.2	9.1	**	**	14.9	16.8	14.8	10.4	1.9
12	0.0	0.0	0.0	2.7	9.0	**	**	21.4	17.7	14.7	10.8	1.1
13	0.0	0.0	0.0	4.7	8.7	**	**	22.5	17.6	14.6	10.1	1.2
14	0.0	0.0	0.0	5.8	5.6	**	**	23.0	14.0	14.7	9.4	.9
15	0.0	0.0	0.0	5.7	6.0	**	**	23.6	7.2	14.7	8.6	1.3
16	0.0	0.0	0.0	5.5	**	**	18.3	22.8	7.9	14.7	8.1	1.5
17	0.0	0.0	0.0	6.5	**	10.1	19.3	23.1	13.7	14.6	8.0	1.2
18	0.0	0.0	.5	7.8		14.3	19.5	22.5	12.3	14.7	7.9	1.4
19	0.0	0.0	1.1	7.5	**	15.6	13.4	16.7	13.5	14.8	7.6	1.9
20	0.0	0.0	1.3	6.7	**	15.0	5.9	20.2	15.1	14.8	4.5	1.2
21	0.0	0.0	.4	6.9	**	15.7	12.3	21.2	16.2	14.8	3.7	.6
22	0.0	0.0	1.9	7.2	**	15.2	17.1	22.7	18.3	14.7	2.7	.2
23	0.0	0.0	1.0	7.3	**	16.2	16.4	19.9	18.5	14.6	1.9	.2
24	0.0	0.0	.5	5.7	**	16.8	12.6	21.8	15.4	14.5	.4	.2
25	0.0	0.0	1.7	6.9	**	17.4	14.7	22.4	17.0	14.6	0.0	.2
26	0.0	0.0	2.1	6.7		14.8	18.9	23.3	18.2	14.7	0.0	.2
27	0.0	0.0	1.6	5.4	**	11.5	19.8	22.8	16.9	14.6	**	.3
28	0.0	0.0	1.8	4.9	**	12.1	21.8	19.9	15.9	14.8	**	.2
29	0.0		.6	5.7	**	14.6	21.8	21.6	15.0	14.6	**	.2
30	0.0		2.3	8.1	**	16.6	20.7	22.1	16.8	14.6	**	.2
31	**		2.2		**		21.8	21.2		**		.3
MEAN	0.0	0.0	.6	5.5	8.1	14.8	16.6	21.0	16.2	14.9	6.6	1.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0								7					7
22.0								11					18
21.0							3	5					26
20.0							1	2	3				32
19.0							3	2	4				41
18.0							2		3				45
17.0						2	1		3				52
16.0						3	2	1	4	3			65
15.0						5			6	1			77
14.0						3	1	1	1	26			109
13.0						1	1	1	2				114
12.0						1	4		2				121
11.0						1							122
10.0						1					3		126
9.0					3						3		132
8.0				1	7			1			5		146
7.0				5	3				2		3		159
6.0				6	1								166
5.0				6	1		1						174
4.0				5							1		180
3.0				3							1		184
2.0			3	4							1	4	196
1.0			7								1	9	213
0.0	30	28	21								3	12	307
-1.0													307
-2.0													307

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	2.1	.1	.2	.8	7.6	**		25.4	22.8	18.4	13.7	6.4
	2.1	.1	.2	.7	8.5	**	19.9	25.3	22.5	17.9	13.5	6.5
	2.1	.1	.4	.7	8.6	**	20.5	25.0	22.1	17.7	13.5	6.6
4	2.1	0.0	.3	.5	9.1	**	21.2	24.6	22.1	16.7	13.5	6.6
6	2.1	0.0	.3	.5	9.2	**	21.1	24.2	22.1	15.9	12.7	6.2
7	2.1	.1	.4	.8	9.2	**	21.0	24.0	22.2	15.4	12.2	4.8
	2.1	.2	.4	.7	9.2	**	20.6	24.0	22.2	16.8	12.2	4.3
8	2.1	.3	0.0	.8	9.2	**	20.8	24.0	22.2	17.1	12.2	3.9
9	2.1	.2	.1	.7	10.1	**	20.7	24.0	22.2	17.1	12.1	4.3
10	2.1	.2	.2	.7	11.6	**	21.0	24.5	22.3	17.2	12.0	4.1
12	2.1	.2	.1	.7	10.4	**	21.0	24.4	21.8	16.9	11.8	4.1
13	2.1	0.0	.3	1.7	11.8	**	21.3	24.3	21.6	16.8	11.8	3.9
	2.1	0.0	.3	1.2	11.8	**	21.8	24.5	21.4	16.9	11.8	4.0
14	2.1	0.0	.2	2.4	11.8	**	22.0	24.8	20.7	16.7	11.2	4.0
16	2.11	0.00	.1	2.4	11.0	**	22.2	24.9	20.2	16.7	11.0	3.8
17	2.1.	0.0.	.2	2.4	11.8	**	22.0	25.1	20.2	16.0	10.8	3.5
18	2.1.		.2	2.4	11.8	17.5	21.9	25.0	20.2	15.3	10.7	3.3
19	2.1.	.1	.7	2.1	11.7	18.2	21.9	24.9	20.3	15.4	9.2	3.1
		0	.8	2.3	12.0	18.7	21.6	24.6	20.0	14.7	8.5	3.1
20	2.1	0.0	.7	2.4	12.3	18.1	21.3	24.4	20.0	14.1	8.9	3.1
21	2.1	0.0	.7	2.5	12.4	18.0	20.7	24.0	20.1	14.0	8.7	3.1
22	2.1	0.0	.5	2.9	12.5	17.9	20.9	24.0	20.6	14.1	8.4	3.1
23	2.1	0.0	.5	2.9	13.0	16.3	21.2	23.9	21.1	14.4	8.3	2.9
24	2.1	0.0	.6	2.7	12.7	18.8	21.7	23.7	20.9	14.5	8.2	2.5
25	2.2	0.0	.8	2.8	11.9	19.2	22.4	23.8	21.1	14.5	8.2	2.1
26	2.2	.1	.7	3.2	12.3	18.8	22.9	23.8	21.6	14.5	6.0	2.0
27	2.2	.1	.7	3.2	13.0	18.2	23.4	24.1	21.5	14.4	5.5	.9
28	2.2	.1	.7	3.1	12.7	18.1	24.0	24.0	20.6	14.3	5.5	.8
29	2.2		.6	3.3	12.6	18.3	24.3	23.9	19.5	14.2	6.3	.9
30	2.2		.6	3.3	12.7		24.4	23.9	19.0	13.8	6.6	.9
31	1.2		.6		13.4		25.0	23.4		13.8		1.3
MEAN	2.1	.1	.4	2.0	11.3	18.4	21.8	24.3	21.2	15.7	10.2	3.6

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0							1	5					6
24.0							3	19					28
23.0							1	7					36
22.0							5		10				51
21.0							13		7				71
20.0							6		11				88
19.0						1	2						93
18.0						11				1			105
17.0						2				5			112
16.0										9			121
15.0										3			124
14.0										11			135
13.0					3					2	4		144
12.0					10						6		160
11.0					8						5		173
10.0					2						2		177
9.0					5						2		184
8.0					2						6		192
7.0					1								193
6.0											3	5	201
5.0				1							2		204
4.0				1								7	212
3.0				4								10	225
2.0	30			11								4	271
1.0	1			1								1	274
0.0		28	31	12								4	349
-1.0													349
-2.0													349

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.7	.7	**	**	11.0	16.5	22.5	24.0	23.6	16.8	12.7	4.9
2	.7	.7	**	**	11.8	16.4	23.4	25.0	23.3	16.8	12.5	5.2
3	.7	.7	**	**	12.6	17.0	23.3	23.6	23.0	16.0	12.3	5.1
4	.7	.7	**	**	12.1	17.0	23.2	23.3	22.8	15.7	11.5	5.2
5	.7	.7	**	**	**	17.8	22.7	23.4	22.6	15.6	10.2	4.4
6	.7	.7	**	**	**	17.9	23.2	23.6	22.5	15.7	10.2	1.5
8	.7	.7	**	**	**	18.4	21.7	23.8	22.4	15.7	10.3	1.2
9	.7	.7	**	**	**	19.3	20.8	23.0	22.5	15.5	10.2	1.5
	.7	.7	**	**	**	19.6	20.8	23.3	22.3	15.7	10.1	2.0
10	.7	.7	**	**	**	19.3	21.6	23.6	22.1	16.1	10.0	2.2
11	.7	.7	**	**	**	19.4	22.5	23.7	21.6	15.6	10.0	2.4
12	.7	.7	**	**	13.4	19.6	22.6	24.5	21.6	15.4	10.0	2.1
14	.5	.7	**	**	14.8	19.8	22.0	24.5	21.0	15.4	9.7	1.7
	.5	.7	**	**	14.6	20.0	21.6	24.2	20.0	15.7	8.2	1.7
15	.8	.7	**	**	14.5	20.4	21.1	23.8	20.3	15.1	6.8	1.3
16	.7	.7	**	**	14.6	20.8	21.8	23.5	20.6	13.4	6.9	1.4
17	.7	.7	**	**	14.5	20.2	23.1	23.4	20.6	13.2	7.3	1.3
18	.7	.7	**	**	15.0	19.9	22.4	23.8	20.4	13.4	7.2	1.0
19	.7	.7	**	**	16.0	20.5	22.0	24.1	20.2	13.6	7.0	1.3
20	.7	.7	**	**	16.5	20.6	21.2	24.0	20.2	13.7	7.3	1.2
21	.7	.7	**	**	16.9	19.9	21.3	24.1	20.6	13.2	7.5	1.0
22	.7	.7		7.5	17.5	19.9	21.4	23.6	20.5	13.1	7.5	1.0
23	.7	.7	**	8.0	18.1	20.5	21.3	22.9	20.9	13.1	6.3	1.2
24	.7	.7	**	8.9	18.0	19.6	21.7	23.3	**	13.2	4.3	.7
25	.7	.7	**	9.6	**	19.4	22.0	23.3	21.3	13.4	4.0	.5
26	.7	**		9.6	**	19.1	21.9	23.4	21.3	13.4	2.8	.4
27	.7	**	**	9.0	**	19.0	21.1	23.9	20.0	13.5	3.4	.5
28	.7	**	**	9.7	**	19.9	21.2	24.0	18.5	13.3	3.9	.4
29	.7		**	11.5	17.1	19.6	21.3	23.9	17.5	13.0	3.9	.2
30	.7			10.6	17.7	20.6	22.4	23.6	17.3	13.0	4.8	.1
31	.7		**		16.5		23.2	23.6		13.0		0.0
MEAN	.7	.7		9.4	15.2	19.3	22.0	23.7	21.1	14.5	8.0	1.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													1
24.0													9
23.0							6	21	3				39
22.0							9	1	7				56
21.0							14		5				75
20.0						8	2		11				96
19.0						15							111
18.0					2	1			1				115
17.0					3	4			2				124
16.0					4	2				4			134
15.0					1					11			146
14.0					5								151
13.0					1					16			168
12.0					2						3		173
11.0				1	2						1		177
10.0				1							8		186
9.0				4							1		191
8.0				2							1		194
7.0				1							6		201
6.0											3		204
5.0												3	207
4.0											3	2	212
3.0											3		215
2.0											1	4	220
1.0													
0.0	31	25										148	234298
-1.0													298
-2.0													298

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1											**	6.9
2											**	7.0
											**	6.7
4											**	5.6
5											**	4.4
6											**	3.0
7											**	2.1
8											**	2.0
9											**	3.0
10											10.5	3.1
11											10.5	3.1
12											10.4	2.2
13											9.8	2.8
14											7.8	1.8
15											6.4	1.3
16											6.2	2.0
17											6.9	2.9
18											7.7	2.4
19											8.3	3.3
20											8.7	2.7
21											8.1	1.5
22											8.0	1.9
23											5.9	2.4
24											[illegible]	1.8
25											[illegible]	1.2
26											[illegible]	.8
27											[illegible]	.5
28											[illegible]	.5
29											[illegible]	**
30											[illegible]	**
31												**
MEAN											7.2	2.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													
17.0													
16.0													
15.0													
14.0													
13.0													
12.0													
11.0													0
10.0											[illegible]		3
9.0											1		4
8.0											4	1	8
7.0											2	2	11
6.0													
5.0											[illegible]	1	15
4.0											3	1	26
3.0												5	31
2.0												9	40
1.0												6	46
0.0												3	49
-1.0													49
-2.0													49

Station No. 4098, Temperatures, St. Clair River at Port Huron, Michigan, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	7.5	12.1	17.4	23.0	19.4			
2	**	**	**	**	6.7	11.3	17.7	22.8	19.4			
3	**	**	**	**	7.6	11.1	18.3	22.9	19.9			
4	**	**	**	**	7.1	12.5	18.4	21.5	20.6			
5	**	**	**	**	6.6	12.8	18.6	21.9	20.8			
6	**	**	**	**	7.8	14.0	18.6	22.0	20.7			
7		**	**	**	8.8	14.0	18.3	22.3	20.6			
8	**	**	**	**	9.7	14.4	17.5	22.6	20.5			
9	**	**	**	**	9.7	14.5	17.7	23.1	20.8			
10	**	**	**	**	9.0	13.9	17.9	23.7	20.5			
11	**	**	**	**	7.9	14.3	18.8	24.4	19.9			
12	**	**	**	**	9.5	16.5	19.6	24.7	19.5			
13	**	**	**	**	8.9	17.0	19.5	24.5	18.7			
14	**	**	**	**	8.8	16.9	18.9	23.7	**			
15		**	**	**	9.0	17.0	19.0	23.2	**			
16	**	**	**	**	**	17.3	18.2	22.9	**			
17	**	**	**	**	**	16.0	18.4	22.3	17.9			
18	**	**	**	**	**	15.7	18.4	22.1	17.9			
19	**	**	1.5	**	11.5	14.8	18.2	**	17.9			
20	**	**	1.2	**	11.0	14.7	17.7	**	17.4			
21	**	**	2.1	**	**	14.6	17.5	**	16.8			
22	**	**	2.8	**	13.1	15.4	18.9	**	16.1			
23	**	**	2.9	**	12.0	15.6	18.9	**	15.5			
24	**	**	3.1	**	11.7	15.3	19.1	20.7	15.0			
25	**	**	3.3	**	11.4	15.1	19.4	20.9	15.0			
26	**	**	2.7	**	12.2	15.2	20.1	21.1	15.0			
27	**	**	**	**	12.1	15.3	20.0	21.5	15.0			
28	**	**	**	**	12.0	16.1	20.0	21.5	15.0			
29	**		**	**	12.3	15.8	21.1	**	15.0			
30	**		**	7.8	13.3	16.9	20.8	21.2	15.0			
31	**		**		12.4		21.2	20.0				
MEAN	**	**	2.4	7.8	10.0	14.9	18.8	22.4	18.0			

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													
25.0													0
24.0								3					3
23.0								5					8
22.0								8					16
21.0							2	6					24
20.0							6	3	5				38
19.0							5						48
18.0							13		1				62
17.0						3	7		4				76
16.0						5			2				83
15.0						8			8				99
14.0					2	8							107
13.0					6	3							110
12.0					4	3							119
11.0													125
10.0													125
9.0					5								
8.0					3								130 133
7.0				1	5								139
6.0				1	5								141
5.0					2								1 1
4.0													141 141
3.0			2										143
2.0			4										147
1.0			2										149
0.0													149
-1.0													149
-2.0													149

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.5	1.5	1.6	3.5	6.1	9.2	16.4	19.2	19.4		11.0	4.5
	1.4	1.2	1.3	3.5	6.0	9.5	17.4	**	19.4	13.8	11.0	4.5
3	1.2	.9	1.0	**	5.9	**	16.7	**	19.4	13.0	11.4	4.3
4	1.2	.7	.9	**	5.5	**	16.9	**	19.9	12.8	10.3	4.4
5	1.4	1.0	1.8	**	5.1	**	17.4	**	20.3	12.6	9.1	3.6
6	1.4	1.4	1.6	**	5.4	14.7	18.7	**	20.3	13.2	8.9	3.1
	1.4	1.5	1.7	**	5.3	14.7	17.2	**	20.4	13.9	9.0	2.0
	1.4	1.5	1.1	**	5.6	11.8	17.1	**	15.7	14.7	8.7	1.4
	1.4	.7	1.5		5.9	10.3	17.5	**	15.9	15.8	8.5	2.8
10	1.4	1.3			6.0	10.7	17.6	**	17.1	13.0	9.5	4.6
11	1.5	1.0	[illegible]		6.1	12.6	18.1	**	14.3	11.1	9.8	2.1
12	1.5	1.0	2.[illegible]	**	6.1	16.9	19.4	**	15.7	11.8	10.1	1.6
13	1.5	1.6	2.8	**	6.4	17.0	20.5	**	16.0	12.4	10.1	2.8
14	1.5	1.7	2.7	**	6.6	16.9	11.3	**	15.4	12.8	8.5	2.3
15	1.3	1.3	2.3	**	7.1	16.5	10.6	22.3	15.3	12.3	5.7	2.8
16	1.2	1.7	3.9	**	7.4	15.0	13.8	17.3	14.8	11.4	4.6	1.0
17	2.2	1.7	1.9	**	7.2	9.2	16.5	18.9	15.8	10.9	5.0	2.0
18	3.9	1.5	2.2	**	7.4	10.0	18.4	21.9	15.4	11.2	5.1	1.8
19	3.6	1.3	2.0	**	10.7	11.4	18.4	17.7	15.7	11.9	5.6	2.8
20	3.6	2.2	1.4	3.6	11.1	12.7	17.5	15.1	16.5	11.6	6.6	2.6
21	3.7	1.4	1.7	4.9	11.1		16.9	18.5	16.1	11.7	6.4	1.8
22	2.5	.9	2.0	6.5	11.2	14.7	17.5	19.2	16.9	12.2	6.1	.8
23	1.4	1.1	2.2	7.8	11.6	15.4	18.7	16.9	18.1	12.4	5.0	.8
24	1.2	2.4	2.5	7.4	12.1	14.5	18.6	18.2	17.0	12.7	4.1	1.1
25	.7	1.9	2.7	6.9	12.1	16.1	17.4	19.3	13.4	13.6	[illegible]	1.1
26	.8	1.2	3.3	6.2	12.0	16.7	17.4	20.3	15.7	13.3	[illegible]	1.2
27	.9	1.3	3.4	5.3	11.6	15.9	17.3	21.4	15.4	12.7	[illegible]	1.0
28	.5	1.8	3.5	5.5	11.1	16.8	17.7	21.5	14.8	11.7	[illegible]	1.5
29	1.0		3.5	5.5	10.8	15.2	19.0	21.0	13.6	11.3	3.3	1.6
30	.9		3.5	5.6	10.2	12.4	17.8	20.3	13.3	12.2	3.6	1.4
31	.9		3.5		9.7		17.2	19.6		12.1		1.8
MEAN	1.6	1.4	2.3	5.6	8.3	13.7	17.2	19.4	16.6	12.6	6.9	2.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0								1					1
21.0								4					5
20.0							1	2	3				11
19.0							2	4	1				21
18.0							6	3	2				31
17.0						1	14	2	2				50
16.0						9	5	1	4				65
15.0						9		1	4	1			82
14.0						1		1	13	1			90
13.0						3	1		3	8			103
12.0					6	3	1			11			120
11.0					3	3	1			9	3		141
10.0						3				1	3		152
9.0					1	3					4		160
8.0											4		164
7.0				2	4								170
5.00				4	7						3		183
4.0				1	7						3	5	199
3.0				1							3	5	208
3.0	4		7	3							2	2	226
2.0	2	2	12	3							2	9	253
0.0	19	22	11								1	13	319
0.0	6	4	1									2	332
-1.0	6	4	1									2	332
-2.0													332

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	.2	0.0	0.0	5.0	5.6	13.8	20.8	11.6	13.7	9.5	4.5
2	0.0	.2	0.0	0.0	**	5.9	15.2	20.7	11.1	**	9.2	4.5
3	0.0	.2	0.0	0.0	**	6.3	15.7	20.2	16.9	**	9.1	4.1
4	0.0	.2	0.0	0.0	**	7.3	16.0	19.6	17.8	**	9.2	2.4
5	0.0	.2	0.0	0.0	**	**	16.3	19.4	18.0	**	9.1	2.4
6	0.0	.2	0.0	0.0	**	10.3	16.5	19.9	17.8	**	9.4	1.5
7	.2	.2	0.0	0.0	**	10.7	16.4	20.4	16.1	**	9.6	1.5
8	.2	.2	0.0	0.0	**	11.4	16.7	20.8	16.3	**	9.2	2.1
9	.3	.2	0.0	0.0	**	11.3	16.7	20.3	16.2	**	9.1	2.5
10	.2	.2	0.0	0.0	**	11.5	**	19.3	11.2	**	9.1	2.4
11	.2	.2	0.0	0.0	**	13.2	**	19.9	16.8	**	9.1	2.0
12	.2	.2	0.0	0.0	**	11.9	**	21.0	15.2		9.1	1.1
13	0.0	.1	0.0	0.0	**	9.8	16.1	21.5	16.9	**	8.7	1.7
14	0.0	0.0	0.0	0.0	**	8.5	15.9	**	15.7	**	8.0	2.1
15	0.0	0.0	0.0	0.0	**	9.5	16.6	**	15.3	**	7.7	1.7
16	0.0	0.0	0.0	0.0	**	10.2	17.4	**	14.5	**	7.3	1.7
17	0.0	0.0	0.0	0.0	**	11.5	17.7	**	14.2	**	7.0	1.8
18	0.0	0.0	0.0	0.0	**	11.7	18.0	**	14.0	**	7.0	1.9
19	0.0	0.0	0.0	0.0	1.8	12.2	16.5	**	14.5	**	6.9	2.2
20		0.0	0.0	.1	2.0	12.4	14.9	**	15.2	**	6.7	1.5
21	0.0	0.0	0.0	1.1	2.4	12.8	14.7	**	15.7	**	6.5	1.1
22	0.0	0.0	0.0	2.1	2.8	13.4	15.4	**	16.1	**	5.1	.9
23	0.0	0.0	0.0	2.7	3.2	13.8	16.5	**	16.4	**	3.8	.4
24	.1	0.0	0.0	3.3	3.7	13.6	15.8	**	15.8	10.9	3.8	.6
25	0.0	0.0	0.0	3.8	3.7	14.1	16.4	**	15.0	10.8	4.0	.6
26	0.0	0.0	0.0	4.0	3.9	12.7	17.7	**	14.8	10.1	4.5	.6
27	.3	0.0	0.0	4.3	3.9	13.6	18.2	**	14.8	10.4	4.9	.6
28	.2	0.0	0.0	4.8	3.9	13.7	19.0	**	14.5	10.1	4.4	.6
29			0.0	5.0	4.1	13.6	19.5	**	14.0	10.1	3.8	.6
30	.2		0.0	5.0	4.8	14.7	18.9	**	13.9	10.4	4.0	.5
31	.2		0.0		5.5		20.4	**		10.4		.6
MEAN	.1	.1	0.0	1.2		11.3	16.8	20.3	16.0	10.8	7.2	1.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													
23.0													0
22.0													0
21.0													2
20.0							1	6					9
19.0								5					15
18.0									3				22
17.0									6				31
16.0							11		5				47
15.0							5		7				59
14.0						2	2		8				71
13.0						7	1		1	1			81
12.0						4							85
11.0						6							91
10.0										6			102
9.0											12		116
8.0						1					2		119
7.0						1					4		124
6.0											3		128
5.0				2	2	2					1		135
4.0				3	2						5	3	148
3.0				2	6						3		159
2.0				2	3							8	172
1.0				1	1							10	184
0.0	31	28	31	20								10	304
-1.0													304
-2.0													304

Station No. 7058, Temperatures, Lake Michigan at Milwaukee, Wisconsin, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	2.4	5.9	**	11.8	**	16.7	11.1	5.2	**
2	**	**	**	1.9	6.0	**	13.4	**	20.8	**	2.6	**
3	* *	**	**	2.1	6.0	**	12.9	**		**	2.6	**
4	**	**	**	2.3	6.0	**	10.1	18.1	15.3	**	**	**
5	**	**	**	2.4	6.0	**	13.0	16.8	11.8	**	**	**
6	**	**	**	3.8	6.0	**	12.1	16.3	12.2	**	**	**
7	**	**	**	3.4	6.0	**	10.5	17.3	16.1	**	**	**
8	* *	**	**	4.4	5.7		13.2	17.6	15.4	**	**	**
9	**	**	**	3.8	5.7	**	14.4	19.4	11.1	**	**	**
10	**	**	**	3.7	5.9	**	15.6	20.2	7.0	**	**	**
11	**	**	**	4.5	5.9	**	14.8	20.8	**	9.7	**	**
12	**	**	**	3.9	5.9	**	13.7	20.9	**	8.8	**	**
13	**	**	**	3.1	5.9	**	9.9	20.4	**	8.7	**	**
14	**	**	**	4.1	5.8	**	9.7	19.6	10.4	8.9	**	**
15	**	**	**	5.1	5.8	**	12.5	16.3	10.5	8.6	**	**
16	** *	*	**	5.1	5.5	**	14.5	11.8	10.3	8.0	**	**
17	**	**	**	4.9	5.5	**	13.5	13.9	10.5	6.4	**	**
18	**	**	**	**	5.8	**	14.7	16.7	10.5	6.0	**	**
19	* *	**	**	5.0	5.8	**	15.0	13.9	9.8	6.0	**	**
20	**	**	**	4.9	**	**	15.0	15.0	9.3	5.9	**	**
21	**	**	**	4.7	**	**	**	13.8	7.8	5.1	**	**
22	**	**	**	4.4	**	**	**	12.6	8.1	6.0	**	**
23	**	**	**	4.3	**	**	**	8.5	10.7	5.9	**	**
24	**	**	**	4.0	**	**	**	6.9	7.9	6.0	**	**
25	** *	*	**	4.3	**	**	**	7.1	10.0	6.2	**	**
26	**	**	**	4.7	**	**	**	6.4	7.9	6.1	**	**
27	**	**	**	4.9	**	**	**	**	8.8	6.8	**	**
28	** *	*	**	5.0	**	**	**	**	9.7	6.9	**	**
29	**		**	5.5	**	**	**	**	10.1	5.2	**	**
30	**		**	5.8	**	**	**	17.3	11.3	4.2	**	**
31	**		**		**		**	10.4		4.8		**
MEAN	**	**	**	4.1	5.9	**	13.0	15.1	11.2	6.9	3.5	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0								4	1				5
19.0													7
18.0								1					8
17.0								3					11
16.0								4	2				17
15.0							3	1	2				23
14.0							4						27
13.0							5	1					35
12.0							3	1	1				40
11.0							1		3	1			46
10.0							2	1	8				57
8.0							2		3	1			63
7.0								1	2	5			71
6.0					6			11	4	9			75
					13								93
5.0				6						4	1		117
4.0				12						2			131
3.0				6									137
2.0				4							2		143
1.0				1									144
0.0													144
-1.0													144
-2.0													144

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.6	0.0	0.0	**	0.0	5.6	10.8	16.6	**	12.6	9.0	.9
2	.1	0.0	0.0	**	0.0	5.2	9.9	16.6	**	12.5	8.2	.7
3	0.0	0.0	0.0	**	0.0	8.0	10.3	17.0	**	12.3	7.6	.7
4	.2	0.0	0.0	**	0.0	8.0	10.2	17.1	**	11.4	7.5	.7
5	2.0	0.0	0.0	**	0.0	6.0	10.7	17.6	**	12.0	7.3	.7
6	1.4	0.0	0.0	**	**	7.1	10.6	18.3	**	12.5	7.2	.7
7	.1	0.0	0.0	**	**	7.8	10.5	18.5	**	12.6	7.2	.6
8	0.0	0.0	0.0	**	**	8.0	10.9	19.6	**	12.6	7.2	.6
9	0.0	0.0	0.0	**	**	1.9	11.0	20.9	**	13.1	7.2	.5
10	0.0	0.0	0.0	**	**	8.5	10.9	21.3	**	12.8	7.0	.6
11	.1	0.0	0.0		**	9.8	11.3	20.8	**	11.9	7.0	**
12	.4	0.0	0.0	**	**	8.6	12.1	20.9	**	11.7	7.0	2.7
13	.5	0.0	0.0	**	**	9.6	13.4	21.2	**	11.5	6.8	2.9
14	0.0	0.0	0.0	**	**	10.7	13.1	20.4	**	11.5	5.9	2.0
15	0.0	0.0	0.0	**	**	10.8	11.3	19.7	**	11.0	5.9	.1
16	0.0	0.0	0.0	**	**	11.3	**	20.3	**	10.3	5.9	0.0
17	0.0	0.0	0.0	**	**	7.6	**	20.3	**	10.6	5.9	0.0
18	0.0	0.0	0.0	**	5.5	5.7	**	20.3	**	10.7	5.3	0.0
19	0.0	0.0	0.0		5.1	5.5	**	20.3	**	10.6	5.1	0.0
20	0.0	0.0	0.0	**	4.5	6.8	**	19.9	**	10.2	5.1	0.0
21	0.0	0.0	0.0	**	4.8	7.6	12.8	20.0	14.6	10.1	5.1	0.0
22	0.0	0.0	0.0	**	4.8	8.2	13.6	19.7	14.6	10.1	4.6	0.0
23	0.0	0.0	0.0	**	3.9	9.1	14.7	19.5	14.6	10.1	3.4	0.0
24	0.0	0.0	0.0	**	4.0	7.1	15.2	19.5	14.7	10.1	2.6	0.0
25	0.0	0.0	0.0	**	4.3	8.8	13.6	19.5	14.3	10.1	1.7	0.0
26	0.0	0.0	0.0	**	4.3	9.9	15.2	19.8	13.6	9.9	1.3	0.0
27	0.0	0.0	0.0	**	4.3	9.0	15.2	19.8	13.5	9.9	1.1	0.0
28	0.0	0.0	0.0	**	5.2	9.8	15.6	**	13.2	9.9	.8	0.0
29	0.0		0.0	**	6.0	9.3	17.6	**	12.9	9.4	.9	0.0
30	0.0		0.0		5.6	10.0	17.9	**	13.0	9.4	.9	0.0
31	0.0		0.0		5.6		16.8	**		9.4		0.0
MEAN	.2	0.0	0.0	**	3.6	7.8	12.9	19.5	13.9	11.1	5.3	.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0								2					
20.0								9					11
19.0								9					20
18.0								2					22
17.0							2	3					27
16.0							1	2					30
15.0							1						34
14.0							4		5				40
13.0							2		4	1			49
12.0							3		1	8			60
11.0						1	3			6			70
10.0						1	8			10	1		89
9.0						6	1			6	1		103
8.0						6					1		110
7.0					1	5					11		126
6.0					5	5					8		133
5.0					5						8		151
4.0					7						1		159
3.0					1						1		161
2.0	1										1	3	166
1.0	1										3	3	170
0.0	1	28	31		5						3	27	293
-1.0	29	28	31		5						3	27	293
-2.0													293

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1970

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.2	0.0	0.0	0.0	6.2	7.6	15.0	19.5 19.6	18.8 18.7	11.0	8.1	3.2 2.8
2	.4	0.0	0.0	0.0	5.8	8.2	16.8	19.5	18.8	11.2	7.9	3.2
3				0.0	6.8	9.1		19.1	19.4		7.2	1.4
4	0.0	0.0	0.0	0.0	6.8	10.7				11.7	6.5	1.4 1.4
5	0.0	0.0	0.0	0.0	4.7	11.2	15.8 16.1	19.9	19.5 19.7		6.9	
6	0.0	0.0					16.6		19.3		6.7	.8
7			0.0	0.0	6.4	12.1		20.7		13.7	6.2	1.1
8	0.0	0.0	0.0	0.0	7.0	11.1	16.8		19.4	11.8	6.4	1.5
9											6.3	
10	0.0		0.0	0.0	6.0							
11	0.0	0.0	0.0	0.0	4.5	12.4 **						.9
12	0.0	0.0	0.0	0.0	4.4						5.9	1.0
13	0.0	0.0	0.0	0.0	5.1	**	17.5	21.5	16.7	10.4		1.8
14	0.0	0.0	0.0	0.0	5.7	**	16.4	22.8	15.6	10.6	4.1	1.5
15	0.0	0.0	0.0	0.0	5.8	**	15.7	22.9	15.5	10.3	2.6	1.5
16	0.0	0.0	0.0	0.0	5.6	**				9.4	4.3	1.6
17	0.0	0.0	0.0	0.0	6.4	**	18.6	20.8	15.9	9.2	4.0	1.5
18	0.0	0.0	0.0	0.0	7.1	**	18.6			9.7		1.5
19	0.0	0.0	0.0	0.0	8.1	**				9.5	4.2	.9
21		0.0			6.0	**				9.7	4.1	.4
22		0.0		.1	6.6	**				9.8	4.0 3.0	.3 .3
23												
24	0.0	0.0	0.0	2.5 2	6.8	13.2		19.4	15.2	10.2	2.9	0.0
25	0.0	0.0	0.0	4.3 3	6.6	12.8	11.0 14.8	20.2	13.7	10.2	1.8	0.0
	0.0	0.0	0.0	5 4	6.8							0.3
26	0.0	0.0	0.0	6 5	6.0		16.3					0.0
27		0.0			7.2	12.5		18.9	12.8	9.9	13.2	0.0 0.0
28				7.3			17.6 17.5			8.9		
29				7.2		13.9		18.5	12.5	9.4	2.2	0.0
30											1.1	
31										8.8		0.0
MEAN	0.0	0.0	0.0	1.3	6.5	11.5	16.0	20.0	16.5	10.4	4.5	.9

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0								1					1
21.0								3					4
20.0							1	11	1				16
19.0							5	115	6				34
18.0													47
17.0							6		3				55
16.0							8		23				66
15.0						1	3		8				77
14.0						2	2		2				82
13.0							1		1	1			87
12.0						7	1		2	3			100
11.0						2	3		2	4			111
10.0						1				10			122
9.0						3	1			11			137
8.0					3	1				2	3		144
7.0				1	8	1					7		157
6.0				3	11						1		178
5.0				1	6						7		186
4.0				1	3						1		197
3.0											5	1	199
2.0				1								1	206
1.0	1			1							5	14	227
0.0	30	28	31	22								15	353
-1.0													353
-2.0													353

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.2	1.0	.7	.7	4.6	11.1	18.3	21.1	19.6	18.0	14.7	**
2	1.2	1.0	.7	.6	4.7	11.3	17.4	21.2	19.7	18.1	14.6	5.9
3	1.2	1.0	.7	.7	4.7	11.3	17.8	21.2	19.8	18.1	14.3	5.7
4	1.2	.9	.7	.7	4.8	11.5	18.5	21.1	20.0	17.9	13.9	5.7
5	1.1	.8	.7	.9	5.3	11.8	19.0	21.4	20.1	17.9	13.4	5.3
6	1.1	.7	.7	1.0	5.6	11.9	18.9	21.4	20.3	17.8	13.2	4.9
7	1.0	.7	.7	1.0	6.0	12.1	18.3	21.6	20.5	17.3	12.6	5.0
8	.9	.9	.7	1.1	6.1	12.2	**	21.8	20.8	17.0	12.3	5.1
9	.9	.8	.7	.9	6.2	12.4	19.8	21.8	21.0	16.8	11.9	5.1
10	.9	.9	1.1	1.0	6.5	12.9	20.0	21.9	21.0	16.7	11.5	5.5
11	.8	.8	.9	1.2	7.1	13.4	20.2	22.0	21.0	16.3	11.0	5.8
12	1.0	.8	.9	1.4	7.2	13.4	20.2	21.8	20.9	15.8	10.6	5.7
13	1.0	.9	.9	1.5	7.3	13.5	20.3	21.6	20.7	15.5	10.2	5.4
14	.9	.9	.9	1.2	7.5	13.8	20.2	21.5	20.7	15.5	9.8	5.1
15	.9	.8	.9	1.3	7.9	13.7	19.9	21.2	20.9	15.6	9.4	4.9
16	1.0	.7	.9	1.4	8.2	13.9	19.9	21.5	20.9	15.5	9.1	5.1
17	1.1	.7	1.0	1.8	8.5	13.8	**	21.7	20.5	15.1	9.1	4.9
18	1.1	.7	1.0	2.1	8.8	13.9	**	21.8	20.2	15.0	9.2	4.3
19	1.2	.7	1.0	2.5	9.3	14.3	**	21.8	20.0	15.1	9.4	3.8
20	1.0	.8	.9	2.6	9.5	14.9	19.8	22.1	19.7	15.0	9.2	3.6
21	1.0	.8	.9	2.7	9.6	15.2	19.8	21.9	18.9	15.1	8.8	3.9
22	.9	.7	.9	2.9	9.8	15.5	20.1	21.8	18.2	15.2	8.3	3.5
23	1.0	.7	.9	3.0	10.0	16.0	20.2	21.5	17.8	15.1	8.3	3.4
24	1.0	.7	.8	3.1	10.1	16.6	20.4	21.0	17.5	14.8	8.0	3.4
25	.9	.7	.8	3.1	10.5	16.7	20.6	20.7	17.6	14.8	7.9	3.1
26	.9	.7	.9	3.2	10.6	16.7	20.7	20.5	17.7	14.9	7.6	3.2
27	1.0	.7	.9	3.4	10.5	17.0	20.9	20.4	17.7	14.9	7.3	3.0
28	1.0	.7	.9	3.4	10.3	17.1	21.0	20.1	17.6	15.1	7.2	**
29	.9		.9	3.9	10.5	17.0	21.1	19.6	17.8	15.1	7.2	**
30	1.0		.9	4.2	10.8	17.4	21.1	19.4	17.9	15.0	6.8	**
31	1.0		.9		10.9		21.2	19.4		14.6		**
MEAN	1.0	.8	.8	2.0	8.0	14.1	19.8	21.2	19.6	16.0	10.2	4.6

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													
24.0													
23.0													
22.0								2					
21.0							4	22	3				31
20.0							11	4	13				59
19.0							6	3	4				72
18.0							4		2	3			81
17.0						4	2		8	5			100
16.0										7			107
15.0										15			124
14.0										5	3		134
13.0											3		145
12.0						4					2		151
11.0						6					3		160
10.0					9						2		171
9.0					4						7		182
8.0					3						4		189
7.0					5								199
6.0					4								204
5.0					2							13	219
4.0				1	4							4	228
3.0				7								9	244
2.0				5									249
1.0	21	3	4	11									288
0.0	10	25	27	6									356
-1.0													356
-2.0													356

Station No. 2076, Temperatures, Lake Ontario at Olcott, New York, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
					6.6							
1	.1	.2	.4	3.8	6.2	10.9	21.1	**	14.2	16.5	14.0	2.7
2	.1	.2	.9	4.2		8.7	20.7	20.1	13.1	18.1	14.5	2.4
3	.1	.2	.5	4.6	7.4	10.5	19.8	20.5	16.4	18.9	13.4	.7
4	.4	.2	.3	3.6	7.1	13.4	15.3	20.1	19.1	16.6	11.7	1.7
5	.3	.2	.3	2.7		11.9	16.9	19.9	20.2	17.2	12.6	2.3
6	.2	.2	.5	3.2	7.2	9.9	19.9	21.0	20.8	16.7	12.5	2.2
7	.2	.2	.4	3.2	7.7	12.1	21.5	21.2	21.2	15.2	10.7	2.9
8	.2	.2	.3	3.4	6.7	14.4	21.9	21.8	21.8	16.1	**	3.4
9	.5	.3	.3	4.5	7.0	15.9	22.7	22.3	21.7	16.6	**	3.3
10		.3	.4	5.0	7.7	14.6	22.7	22.6	**	16.6	**	4.0
11	.1	.3	.3	3.5	7.6	9.2	18.0	22.7	18.5	15.4	6.9	5.2
12	.2	.4	.6	4.2	6.3	7.1	8.6	20.7	19.4	13.5	7.7	4.5
13	.2	.2	1.0	5.1	7.7	12.6	7.6	21.7	15.4	14.8	7.9	3.8
14	.2	.2	1.3	5.6	8.4	11.7	14.7	21.7	14.1	15.6	7.7	3.4
15	.2	.2	.9	5.4	6.6	6.3	19.0	16.6	17.3	15.6	7.4	3.8
16	.2	.2	.5	6.1	7.1	5.4	20.0	5.8	18.5	16.0	7.5	4.7
17	.2	.3	.6	6.6	8.7	8.8	20.3	12.4	18.7	11.8	7.9	3.7
18	.2	.2	1.0	6.2	7.4	14.0	19.9	18.1	17.0	7.6	8.4	1.9
19	.2	.4	1.5	7.4	8.1	13.7	19.8	20.1	16.8	8.4	9.2	2.5
20	.2	.4	.8	6.8	8.6	15.8	19.4	20.9	16.4	12.2	7.8	2.1
21	.2	.4	.5	7.3	8.7	18.5	19.9	21.6	17.3	14.0	7.1	1.9
22	.2	.3	.7	8.0	10.5	17.7	19.4	21.2	18.0	14.3	6.7	1.1
23	.2	.1	.7	7.6	7.0	16.8	19.9	20.1	18.0	13.7	5.8	1.7
24	.4	.1	.4	7.3	6.0	17.7	20.2	18.8	17.0	9.5	5.2	2.1
25	.5	.6	.4	6.3	7.9	18.5	19.5	18.6	17.5	8.6	5.1	1.9
26	.5	1.3	1.6	5.5	9.7	17.1	18.2	18.8	17.6	10.7	4.2	1.9
27	.3	.7	2.0	4.7	9.1	16.8	18.9	13.4	16.1	13.3	4.8	2.0
28	.3	.4	2.1	6.0	9.7	13.8	19.7	10.3	9.1	14.2	4.5	2.1
29	.3		2.1	5.7	10.4	11.2	20.8	15.7	11.6	14.2	4.8	1.3
30	.3		2.2	6.4	11.2	18.7	17.7	19.1	15.7	13.3	4.3	.9
31	.3		2.7		12.0		6.5	16.9		14.1		.1
MEAN	.3	.3	.9	5.3	8.1	13.1	18.4	18.8	17.2	14.2	8.1	2.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							2	3					5
21.0							3	7	3				18
20.0							5	7	2				32
19.0							11	2	2				47
18.0						3	3	4	5	2			64
17.0						3	1		6	1			75
16.0						2	1	2	4	7			91
15.0						2	1	1	2	4			101
14.0						3	1		2	6	2		115
13.0						3		1	1	4	1		125
12.0								1		1	2		132
11.0									1	1	1		139
10.0								1		1	1		146
9.0									1	1	1		154
8.0				1	5	2	1				1		166
7.0				4	13	1	1			1	8		194
6.0				7	6	1	1				1		210
5.0				6		1		1			4	1	223
4.0				5							5	3	235
3.0				6								6	248
2.0			5	1								10	264
1.0		1	5									8	278
0.0	31	27	21									3	360
-1.0													360
-2.0													360

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.4	.1	.3	.4	0.0	12.1	22.6	21.4	20.7	18.0	15.3	6.8
2	1.2	.1	.3	.4	.2	11.5	22.6	21.7	20.6	18.2	15.3	5.9
3	1.1	.1	.3	.2	.4	12.4	22.0	21.8	21.0	18.5	14.9	5.7
4	1.1	.1	.3	.5	.2	13.7	21.9	21.5	21.4	18.6	13.7	5.7
5	.9	.1	0.0	.3	0.0	14.1	21.9	21.5	21.6	18.6	11.8	5.1
6	.4	.1	0.0	.4	.1	14.4	22.4	21.6	22.0	18.2	11.9	4.4
7	.4	.1	0.0	.4	.3	15.1	22.7	21.6	22.3	17.4	10.9	4.4
8	.3	.1	0.0	.4	.8	16.1	22.9	22.1	22.8	16.9	11.1	4.5
9	.1	.1	0.0	.7	.1	16.4	23.0	22.5	22.8	16.6	10.0	4.7
10	0.0	0.0	0.0	.5	.1	15.7	23.1	22.5	22.4	16.4	10.0	5.2
11	0.0	0.0	0.0	.4	.3	14.7	22.7	22.4	22.6	15.8	9.6	5.5
12	0.0	0.0	0.0	.8	.2	15.7	22.3	22.0	22.5	15.1	9.4	5.0
13	0.0	0.0	0.0	.5	.2	16.6	21.8	21.9	22.1	14.9	9.2	5.1
14	0.0	0.0	.1	.4	.2	17.2	21.3	22.2	21.6	14.9	9.1	4.6
15	0.0	0.0	.3	.1	.2	16.1	21.4	21.9	21.1	15.2	9.0	4.8
16	0.0	0.0	0.0	.2	.2	15.6	21.5	21.7	20.8	15.4	9.1	5.3
17	0.0	0.0	0.0	.6	.1	16.6	21.2	21.5	20.6	15.4	9.7	5.2
18	0.0	0.0	0.0	.9	0.0	17.4	21.0	21.7	20.4	15.6	9.1	5.2
19	0.0	0.0	.1	1.0	0.0	17.7	20.6	22.0	19.4	15.6	10.7	5.1
20	0.0	0.0	0.0	.5	0.0	19.0	20.5	22.0	18.9	15.6	9.7	4.1
21	0.0	0.0	.1	.5	0.0	19.8	20.7	22.2	18.7	15.7	9.3	3.7
22	0.0	0.0	.2	.3	0.0	20.1	21.1	22.1	18.9	15.6	9.4	3.3
23	.1	.1	.3	.2	.1	19.8	21.4	21.6	18.6	15.7	8.4	3.2
24	.2	.3	.3	0.0	.2	20.0	21.4	20.9	18.1	15.6	8.3	**
25	.2	.3	0.0	.1	2.6	20.5	21.6	20.6	18.0	15.5	8.0	**
26	.2	.2	.2	.1	**	20.7	21.9	20.4	17.5	15.4	7.7	**
27	0.0	.4	.4	.2	**	20.8	21.8	20.4	17.4	15.5	7.6	**
28	0.0	.4	.4	.1	12.0	21.0	21.8	20.4	17.7	15.6	7.3	**
29	0.0		.4	0.0	12.0	21.7	21.9	20.6	18.1	15.5	7.7	**
30	0.0		.2	.1	12.3	22.4	21.7	20.7	18.0	15.4	7.8	**
31	0.0		.2		12.3		21.6	20.5		15.4		**
MEAN	.2	.1	.1	.4	1.9	17.2	21.8	21.5	20.3	16.2	10.0	4.9

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0							2						2
22.0						1	8	10	8				29
21.0						2	18	13	5				67
20.0						5	3	8	5				88
19.0						3			1				92
18.0									8	6			106
17.0						3			3	1			113
16.0						5				3			121
15.0						4				19	2		146
14.0						3				2	1		152
13.0						1					1		154
12.0					4	2					1		161
11.0						1					1		163
10.0											5		168
9.0											10		178
8.0											4		182
6.00											5		187
5.0												1	188
												12	200
4.0												7	207
3.0												3	210
2.0					1								211
1.0	4			1									216
0.0	27	28	31	29	24								355
-1.0													355
-2.0													355

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	.7	0.0	3.9	10.4	17.0	23.9	**	23.3	20.2	12.8	2.8
2	0.0	.7	0.0	4.3	10.6	16.5	25.1	**	23.2	20.5	12.8	2.7
3	0.0	.7	0.0	3.8	10.9	17.2	24.5	**	22.9	20.6	12.8	2.8
4	.3	.6	0.0	3.2	11.2	18.1	24.8	**	23.1	20.6	12.8	2.9
5	0.0	.8	0.0	3.1	11.4	18.3	23.9	**	23.1	20.4	12.6	2.8
6	0.0	.5	0.0	3.1	11.1	19.2	23.8	**	23.1	20.1	12.9	2.9
7	0.0	.5	0.0	3.2	11.6	18.3	24.7	**	23.1	18.0	11.7	3.1
8	0.0	.5	0.0	4.3	12.1	18.0	23.9	**	23.3	17.6	11.3	3.7
9	0.0	.4	0.0	5.4	12.5	18.3	24.3	**	23.8	17.4	11.5	4.1
10	0.0	.6	0.0	6.1	12.3	19.2	24.4	**	23.7	17.0	11.2	4.5
11	0.0	.6	0.0	5.8	11.8	18.9	23.8	**	23.3	16.6	11.1	5.0
12	0.0	.3	0.0	6.0	12.0	19.7	24.5	**	23.2	15.8	10.2	4.9
13	0.0	**	0.0	6.8	12.6	20.2	24.6	**	22.7	15.8	11.1	4.7
14	0.0	**	.9	7.7	12.7	20.4	24.1	**	22.3	15.9	9.9	4.6
15	.2	**	1.4	7.3	13.0	20.5	24.3	**	22.6	16.0	10.1	4.8
16	.4	.7	2.0	7.4	12.8	20.4	23.9	**	21.9	16.4	10.0	5.3
17	.1	.5	2.0	7.7	13.3	19.5	23.6	**	21.5	16.6	10.1	4.6
18	.3	.6	2.0	9.1	13.3	19.2	23.7	**	20.9	16.7	10.8	2.7
19	.2	.4	1.8	9.1	12.6	18.9	23.4	**	20.8	16.6	10.0	3.0
20	.2	.7	1.7	8.4	12.6	18.9	23.1	**	20.7	16.5	9.2	3.1
21	.2	.5	1.8	8.7	15.0	20.6	22.8	**	20.1	16.4	7.4	3.2
22	.4	.4	2.0	9.6	16.3	21.0	22.5	**	20.2	16.7	4.9	2.6
23	.2	.4	1.7	9.3	16.3	21.2	22.5	**	20.2	17.3	5.0	2.4
24	.2	.7	1.6	9.0	15.9	21.0	22.3	**	19.5	17.2	5.0	2.8
25	.3	.8	1.9	8.9	15.9	20.8	22.1	**	19.0	17.0	4.9	2.9
26	.2	1.0	2.0	9.8	15.3	21.1	21.9	**	18.8	16.7	5.0	3.3
27	.2	1.3	2.2	9.6	14.6	21.9	22.1		19.0	16.8	5.0	3.4
28	.3	1.4	2.6	9.9	15.4	22.4	22.6	**	19.1	16.7	5.0	3.8
29	.3		3.3	9.9	16.0	22.0	22.1	**	19.6	16.7	5.0	3.1
30	.3		3.2	10.3	16.1	22.2	22.1	**	19.9	16.9	4.1	3.1
31	.5		3.5		17.2		22.0			16.8		2.8
MEAN	.2	.7	1.2	7.0	13.4	19.7	23.5	**	21.6	17.4	9.6	3.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0							1						1
24.0							9						10
23.0							10		11				31
22.0						3	10		4				48
21.0						5	1		2				56
20.0						6			6	6			74
19.0						5			6				85
18.0						8			1	1			95
17.0					1	2				6			104
16.0					4	1				15	2		125
15.0					5					3	2		136
14.0					1						1		138
13.0					3								141
12.0					9						1		151
11.0					5						3		159
10.0				1	3						7		170
9.0				9							4		183
8.0				3									186
7.0				4							1		191
6.0				3									194
5.0				2							4	2	202
4.0				2							5	7	216
3.0			3	6								10	235
2.0			7									12	254
1.0		3	7										264
0.0	31	22	14										331
-1.0													331
-2.0													331

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	0.0	0.0	1.6	6.5	12.4	17.8	19.0	19.3	17.9	13.9	5.0
2	**	0.0	0.0	1.2	6.4	11.8	**	18.9	19.4	18.0	15.6	4.6
3	**	0.0	0.0	1.2	7.3	11.6	**	19.0	19.5	17.8	15.0	4.5
4	**	0.0	0.0	1.1	7.6	12.4	**	18.7	19.8	17.7	13.9	5.0
5	**	0.0	0.0	1.3	7.4	13.4	**	19.0	19.8	17.1	13.2	6.0
6	.4	0.0	0.0	2.0	8.1	12.7	**	19.5	19.7	16.5	12.4	6.5
7	1.0	0.0	0.0	2.6	9.2	12.3	**	19.7	19.7	15.3	11.4	6.6
8	.9	0.0	0.0	3.2	10.3	11.6	**	19.9	20.2	14.5	10.5	6.9
9	.7	0.0	0.0	3.0	10.4	11.4	**	19.8	20.3	14.7	10.0	7.2
10	.8	0.0	0.0	4.5	10.5	12.2	**	19.7	20.2	14.6	10.4	7.7
11	.8	0.0	0.0	4.5	8.5	12.6	**	**	20.2	14.2	9.3	8.1
12	.8	0.0	0.0	3.9	8.2	13.0	**	**	20.0	13.7	9.9	7.6
13	.8	0.0	0.0	4.5	9.1	13.7	**	**	19.0	13.4	10.3	7.2
14	.8	0.0	0.0	5.6	9.5	14.4	**	**	19.1	14.0	10.6	6.6
15	.8	0.0	0.0	5.3	9.5	15.2	**	**	19.3	14.4	11.8	7.4
16	.8	0.0	0.0	4.9	9.0	15.5	19.8	**	19.0	14.7	11.9	7.8
17	.8	0.0	.2	4.6	9.1	15.1	19.2	**	18.6	14.3	11.8	**
18	.7	0.0	.3	7.5	9.4	15.2	19.3	**	18.1	14.6	12.0	**
19	.7	0.0	.3	7.5	9.1	15.4	19.3	**	17.6	14.8	11.9	**
20	.7	0.0	0.0	7.7	8.6	15.3	19.3	**	17.7	14.7	10.9	**
21	1.0	0.0	.3	7.2	8.3	16.6	19.5	**	17.6	14.7	9.6	**
22	.5	0.0	.6	6.7	9.6	16.0	19.4	**	18.0	14.6	7.7	**
23	0.0	0.0	.9	6.7	10.4	15.9	19.4	19.4	17.9	14.8	7.3	**
24	0.0	0.0	.8	6.6	9.6	16.7	19.4	19.1	17.1	14.6	8.1	**
25	0.0	0.0	.9	6.0	9.2	17.5	19.7	19.5	16.7	14.5	8.0	**
26	0.0	0.0	.9	6.4	9.3	17.5	19.4	19.5	16.7	14.6	8.1	**
27	0.0	0.0	1.0	6.3	9.3	17.9	18.9	19.5	16.9	14.7	8.2	**
28	0.0	0.0	1.1	6.3	10.2	18.2	18.8	19.6	17.3	14.7	8.0	**
29	0.0		1.6	5.5	11.4	18.3	18.7	19.8	17.8	14.7	7.2	**
30	0.0		1.7	5.5	12.1	17.7	18.7	20.0	17.6	14.7	5.5	**
31	0.0		1.7		10.		19.0	19.6		14.3		**
MEAN	.5	0.0	.4	9.6	9.2	14.6	19.2	19.4	18.7	15.1	10.5	6.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0								1	5				6
19.0							12	16	11				45
18.0						2	4	2	3	1			57
17.0						4	1		8	4			74
16.0						3			3	1			81
15.0						7				1	2		91
14.0						1				22			114
13.0					1	3				2	3		123
12.0					1	6							132
11.0					1	4					5		142
10.0					4						6		152
9.0					13						3		
8.0					6						5	1	168180
7.0				3	3						3	6	195
6.0				9	2							5	211
5.0				2							1	2	215
4.0				6								2	224
3.0				3									227
2.0			1	2									230
1.0	2		4	5									241
0.0	24	28	26										319
-1.0													319
-2.0													319

Station 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.6	**	**	2.0	7.0	12.1	14.8	**	20.4	14.5	10.9	3.3
2	1.6	**	**	2.3	7.1	12.3	16.4	**	20.1	12.9	11.1	2.5
3	1.3	**	**	2.2	7.1	10.8	16.6	**	19.1	15.2	10.8	1.9
4	.2	**	**	1.8	7.0	11.9	16.7	**	18.4	12.6	10.1	2.7
5	.9	**	1.6	1.3	6.8	13.8	14.3	**	18.1	11.8	9.5	1.8
6	1.0	**	1.2	1.6	[illegible]	13.1	[illegible]	**	18.3	13.7	9.3	3.0
7	.9	**	.3	2.4	6.5	11.5	13.6	**	16.8	13.9	8.5	4.5
8	.9	**	.7	3.2	6.6	10.9	14.6	**	17.2	13.5	7.7	4.4
9	**	**	1.7	3.0	7.8	11.4	15.4	**	19.1	13.6	6.3	[illegible]
10		**	1.4	3.1	10.5	12.7	17.0	**	20.0	13.9	6.3	3.6
11	**	**	1.7	4.5	10.0	13.8	18.8	**	19.8	14.1	6.3	4.1
12	**	**	1.9	5.1	8.2	12.5	20.0	**	20.0	13.9	6.3	3.4
13	**	**	1.1	5.2	7.8	[illegible]	17.4	**	20.0	13.6	6.8	4.3
14	**	**	1.0	5.3	**	12.2	15.5	**	20.0	13.8	[illegible]	[illegible]
15	**	**	.6	5.9	**	13.8	17.0	**	20.4	13.6	7.8	**
16	**	**	.3	5.7	**	14.1	18.6	**	20.5	14.1	8.3	
17	**	**	.3	6.6	12.6	12.6	[illegible]	**	20.7	14.0	8.8	2.5
18	**	**	.9	6.7	12.1	11.7	21.7	**	20.6	14.3	9.4	**
19	**	**	.4	6.8	11.3	11.5	21.8	**	20.2	14.6	9.5	**
20	**	**	0.0	6.7	9.5	11.7	17.6	**	20.4	14.7	8.1	2.0
21	**	**	.3	7.4	9.1	11.8	18.0	**	20.4	14.4	6.8	4.5
22	**	**	.4	7.4	8.7	15.6	17.9		20.2	13.2	4.6	
23	**	**	1.4	6.6	8.9	17.3	17.9	**	18.7	14.0	3.6	.9
24	**	**	1.3	6.5	9.9	**	17.8	**	16.9	14.2	3.2	1.2
25	**	**	.9	6.4	9.0	**	[illegible]		16.3	14.4	3.5	.9
26	**	**	.9	6.4	9.1	**	16.9	**	15.6	14.6	**	1.1
27	**	**	1.2	6.4	10.0	**	16.6	**	15.4	14.7	3.6	1.1
28	**	**	1.1	6.2	10.2	**	17.4	**	15.1	12.5	3.5	1.8
29	**		1.0	6.3	8.4	13.8	15.0		12.2	13.2	3.6	[illegible]
30	**		.6	6.4	8.5	13.5	16.5	**	13.4	13.8	3.8	1.0
31	**		1.5		9.1		16.9	**		12.9		.9
MEAN	1.0	**	.9	4.9	8.7	12.7	17.1	**	18.5	13.8	7.1	2.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0							2						2
20.0							2		14				18
19.0									3				21
18.0							4		4				29
17.0						1	8		1				39
16.0							8		1				50
15.0						1	2		3	1			57
14.0						1	3			13			74
13.0						6	2		1	12			95
12.0					2	6			1	4			108
11.0					1	8				1	1		117
10.0					4	2					3		129
9.0					6						4		139
8.0					4						4		146
7.0				2	6						2		156
6.0				12	5						7		183
5.0				5									185
4.0				1							1	6	193
3.0				3							7	4	207
2.0				4								5	216
1.0	4		14	3								8	243
0.0	4		13									3	265
-1.0													265
-2.0													265

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.6	0.0	0.0	0.0	2.2	8.2	15.6	15.7	14.7	14.2	10.9	3.9
2	**	0.0	0.0	0.0	2.6	8.5	16.6	16.4	14.7	15.2	10.9	4.5
3	0.0	0.0	0.0	0.0	2.9	7.6	17.0	17.5	16.5	14.6	10.8	4.3
4	0.0	0.0	0.0	0.0	3.6	8.7	15.8	17.6	17.0	14.6	10.7	4.0
5	0.0	0.0	0.0	0.0	4.0	9.2	17.9	17.6	18.1	14.5	10.2	3.8
6	0.0	0.0	0.0	0.0	4.4	8.4	18.5	17.8	18.1	14.4	9.7	3.9
7	0.0	0.0	0.0	0.0	5.1	9.2	19.0	18.1	18.6	14.4	8.3	3.9
8	0.0	0.0	0.0	0.0	5.2	9.4	19.1	18.6	18.7	13.8	8.8	4.1
9	0.0	0.0	0.0	0.0	5.9	9.6	19.0	18.8	18.7	13.7	8.7	3.9
10	0.0	0.0	0.0	0.0	5.7	9.5	19.6	19.1	18.3	13.7	8.6	4.2
11	0.0	0.0	0.0	0.0	5.7	9.1	19.1	18.8	17.7	13.1	8.3	4.5
12	0.0	0.0	0.0	0.0	6.5	8.9	19.0	15.8	17.5	12.8	8.3	4.2
13	0.0	0.0	0.0	0.0	6.8	9.3	17.0	16.1	18.1	12.8	**	2.7
14	0.0	0.0	0.0	.2	5.9	10.2	18.7	15.6	18.0	12.9	7.4	2.7
15	0.0	0.0	0.0	.5	6.4	11.2	18.7	15.3	17.8	12.9	8.0	3.0
16	0.0	0.0	0.0	.7	6.5	12.1	19.1	15.0	17.7	12.6	8.5	3.2
17	0.0	0.0	0.0	.6	6.9	12.6	18.7	16.4	17.2	11.9	8.2	2.7
18	0.0	0.0	0.0	.5	6.0	13.2	18.7	17.6	17.3	11.6	8.5	2.0
19	0.0	0.0	0.0	.8	6.3	14.2	18.8	17.8	17.0	11.5	8.6	2.3
20	0.0	0.0	0.0	1.0	6.2	13.1	18.7	18.1	16.0	12.1	7.6	2.7
21	0.0	0.0	0.0	1.1	6.2	14.0	17.2	18.4	15.9	12.3	6.4	2.3
22	0.0	0.0	0.0	.8	6.5	14.0	17.6	18.4	15.8	12.6	5.5	1.2
23	0.0	0.0	0.0	1.5	6.9	14.4	17.2	**	14.7	12.7	5.3	2.0
24	0.0	0.0	0.0	.8	6.8	14.9	17.6	**	14.9	12.2	4.9	2.0
25	0.0	0.0	0.0	1.0	6.6	13.6	16.8	**	14.3	11.8	5.5	1.1
26	0.0	0.0	0.0	.9	6.6	13.6	17.6	**	14.1	12.4	6.0	1.6
27	0.0	0.0	0.0	.9	6.7	14.3	17.5	**	13.8	12.0	6.0	1.0
28	0.0	0.0	0.0	1.2	7.1	11.7	15.1	15.3	13.3	12.3	5.8	.7
29	0.0		0.0	1.4	7.7	14.1	15.7	15.6	13.6	11.7	4.8	.8
30	0.0		0.0	2.0	8.0	15.1	16.1	16.1	14.1	11.5	4.1	.3
31	0.0		0.0		8.3		16.2	16.1		11.3		.7
MEAN	0.0	0.0	0.0	.5	5.9	11.4	17.7	17.1	16.4	12.9	7.8	2.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													
25.0													
24.0													
23.0													
22.0													
21.0													
20.0							7						
19.0							7	1					8
18.0								7	8				30
17.0							9	6	8				53
16.0						1	4	5	2				64
15.0						7	4	7	12	1			79
14.0						4				6			99
13.0						2			3	104			110
12.0													125
11.0						1				7			134
10.0						7					5		140
9.0											1		148
8.0					2	5					11		165
7.0					2	1					2		171
6.0					15						3		189
5.0					6						4		199
4.0					2						3	7	211
3.0					1							7	219
2.0				1	3							9	232
1.0				6								4	242
0.0	30	28	31	23								4	358
-1.0													358
-2.0													358

Station No. 7058, Temperatures, Lake Michigan at Milwaukee, Wisconsin, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	4.1	7.3	**	**	**	17.6	12.8	**	**
2	.1	**	**	4.1	7.0	**	**	**	17.7	12.8	**	**
3	.1	**	**	5.2	7.8	**	**	**	17.5	12.1	**	
4	.1	**	**	5.2	8.7	**	**	**	17.2	9.3	**	**
5	.1	**	**	4.8	8.8	**	**	**	16.7	7.7	**	**
6	.1	**	**	5.7	8.5	**	**	**	16.2	**	**	**
7	.1	**	**	6.4	9.2	**	**	**	16.8	**	**	**
8	.1	**	**	6.4	8.6	**	**	**	16.7	9.2	**	**
9	.1	**	**	7.1	9.5	**	**	**	18.2	8.7	**	**
10	.1	**	**	5.8	10.0	**	**	**	17.3	8.8	7.6	**
11	.1	**	**	5.2	10.6	**	**	**	18.7	9.6	7.0	
12	.1	**	**	6.3	8.3	**	**	**	19.1	9.3	**	**
13	.3	**	**	6.5	7.6	**	**	**	19.0	10.4	**	**
14	.3	**	.7	6.5	9.0	**	**	**	18.9	10.3	**	**
15	.4	**	.7	8.0	8.3	**	**	**	18.2	10.3	**	
16	.3	**	1.1	7.9	**	**	**	**	18.0	10.3	**	**
17	.3	**	1.1	7.6	**	**	**	**	18.1	9.8	**	**
18	.4	**	.9	7.4	**	**	**	**	17.6	10.1	**	**
19	.2		1.4	7.4	**	**	**	**	16.8	10.8	**	
20	.4	**	1.0	6.5	**	**	**	**	17.5	11.8	**	**
21	.3	**	.7	6.8	**	**	**	**	17.4	10.9	**	**
22	.3	**	.9	8.0	**	**	**	**	17.7	11.5	**	**
23	.3	**	1.4	8.1	**	**	**	**	17.5	11.5	**	**
24	.3	**	1.1	7.0	**	**	**	**	17.3	11.5	**	**
25	.3	**	.9	7.1	**	**	**	**	17.2	**	**	**
26	.4	**	1.0	6.7	**		**	16.3	16.7	**	**	**
27	.4	**	1.0	6.2	**	**	**	16.8	16.6	**	**	**
28	.4	**	1.2	6.8	**	**	**	17.8	13.8	**	**	**
29	.4		1.4	7.0	**	-	**	17.8	12.1	**	**	**
30	.4		1.4	7.0	**	**	**	17.4	14.8	**	**	**
31	.4		1.8		**		**	18.1		**		**
MEAN	.3	**	1.1	6.4	8.6	**	**	17.4	17.2	10.3	7.3	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0									2				2
18.0								1	6				9
17.0								3	12				24
16.0								2	7				33
15.0													33
14.0									1				34
13.0									1				35
12.0									1	3			39
11.0										4			43
10.0					2					6			51
9.0					3					6			60
8.0				1	6					2			69
7.0				9	4					1	3		86
6.0				12									98
5.0				5									103
4.0				1									104
3.0													104
2.0													104
1.0			12	1									117
0.0	30		6										153
-1.0													153
-2.0													153

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	0.0	0.0	0.0	**	**	**	**	17.4	14.8	10.7	5.6
2	0.0	0.0	0.0	0.0	**	**	14.5		17.8	15.2	11.8	4.5
3	0.0	0.0	0.0	0.0	**	**	15.1	**	18.0	15.8	11.9	4.7
4	0.0	0.0	0.0	0.0	**	**	16.1	**	18.9	14.7	11.6	5.1
5	0.0	0.0	0.0	0.3	**	**	15.6	**	19.7	14.3	10.9	3.1
6	0.0	0.0	0.0	0.3	**	**	14.4		19.9	13.7	10.7	3.4
7	0.0	0.0	0.0	0.0	**	**	15.3	**	18.2	13.5	9.7	5.4
8	0.0	0.0	0.0	0.3	**	**	15.5	**	17.8	13.0	9.1	5.3
9	0.0	0.0	0.0	0.0	**	**	15.3	**	17.9	13.7	10.3	4.8
10	0.0	0.0	0.0	0.0	**	**	14.3	**	17.7	13.6	10.5	5.0
11	0.0	0.0	0.0	0.0	**	**	14.4	**	17.1	13.1	10.6	4.1
12	0.0	0.0	0.0	0.0	**	**	15.3	**	16.7	12.8	10.5	4.1
13	0.0	0.0	0.0	0.0	**	**	15.0	**	16.7	13.0	8.9	4.1
14	0.0	0.0	0.0	0.0		**	12.4		16.7	12.9	7.2	**
15	0.0	0.0	0.0	0.0	**	**	13.4	**	17.3	12.8	7.4	**
16	0.0	0.0	0.0	0.0	**	**	15.7	**	17.8	12.6	8.3	**
17	0.0	0.0	0.0	0.0	**	**	15.7	**	17.8	12.3	8.7	2.5
18	0.0	0.0	0.0	0.0			**		**	12.6	8.4	
19	0.0	0.0	0.0	0.0	**	**	**	**	**	13.0	7.8	1.6
20	0.0	0.0	0.0	0.0	**	**	**	**	16.4	12.9	7.3	3.0
21	0.0	0.0	0.0	0.0	**	**	**	**	15.9	13.2	6.7	2.0
22	0.0	0.0	0.0	0.0	**		**	**	15.7	13.2	6.3	2.9
23	0.0	0.0	0.0	0.0	**	**	**	**	15.1	12.8	4.0	.9
24	0.0	0.0	0.0	0.0	**	**	**	**	14.7	12.9	3.5	2.0
25	0.0	0.0	0.0	0.0	**	**	**	**	15.0	13.0	5.7	.9
26	0.0	0.0	0.0	0.0		**	**	**	15.3	13.2	6.8	1.8
27	0.0	0.0	0.0	0.0	**	**	**	**	15.0	13.3	5.1	1.0
28	0.0	0.0	0.0	0.0	**	**	**	**	14.7	11.6	6.4	2.3
29	0.0		0.0	0.0		**	**		14.2	11.8	5.8	2.2
30	0.0		0.0	0.0	**	**	**	**	14.6	11.7	5.6	1.0
31	0.0		0.0		**		**	**		11.0		.5
MEAN	0.0	0.0	0.0	0.0		**	14.9	**	16.8	13.2	8.3	3.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
29.0													0
28.0													3
27.0													3
26.0													0
25.0													0
24.0													0
23.0													0
19.0									2				
18.0									3				5
17.0									4				12
16.0							2		6				20
15.0							8			3			36
14.0							4		4	3			47
13.0							1			19			61
12.0							1			4			71
11.0											3		78
10.0											4		85
9.0											4		87
7.0											4		91
6.0											2		95
5.0											4		100
4.0											3	5	108
3.0											1	5	114
2.0											1	5	120
1.0												5	125
0.0												4	129
-1.0	31	28	31	30								3	252
-2.0													252

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1971

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	0.0	0.0	0.0	**	**	**	**	8.7	16.0	9.5	2.3
2	0.0	0.0	0.0	0.0	**	**	**	**	10.9	15.9	9.6	2.5
3	0.0	0.0	0.0	0.0	**	**	**	**	15.2	15.4	9.5	2.5
4	0.0	0.0	0.0	0.0	**	**	**	**	16.8	14.8	9.2	2.2
5	0.0	0.0	0.0	0.0		**	**	**	16.9	14.1	9.1	2.2
6	0.0	0.0	0.0	0.0	**	**	**	**	16.8	13.0	5.3	2.4
7	0.0	0.0	0.0	0.0	**	**	**	**	16.4	13.1	9.6	2.7
8	0.0	0.0	0.0	0.0	**	**	**	**	16.3	13.4	9.6	2.7
9	0.0	0.0	0.0	0.0	**	**	**	**	16.6	13.2	9.7	2.8
10	0.0	0.0	0.0	0.0	**	**	**	**	16.2	12.5	5.0	2.8
11	0.0	0.0	0.0	0.0	**	**	**	**	15.8	12.4	4.9	2.9
12	0.0	0.0	0.0	0.0	**	**	**	**	16.3	12.2	4.9	2.5
13	0.0	0.0	0.0	0.0	**	**	**	**	16.8	12.4	4.6	1.3
14	0.0	0.0	0.0	0.0	**	**	**	**	16.5	12.5	4.8	1.0
15	0.0	0.0	0.0	0.0	**	**	**	**	15.8	12.5	5.5	1.1
16	0.0	0.0	0.0	0.0	**	**	**	**	13.4	11.9	5.8	1.0
17	0.0	0.0	0.0	0.0	**	**	**	**	13.4	11.4	5.9	.9
18	0.0	0.0	0.0	0.0	**	**	**	**	14.2	11.6	5.7	.9
19	0.0	0.0	0.0	0.0	**	**	**	**	14.2	12.8	5.1	.9
20	0.0	0.0	0.0	0.0	**	**	**	**	14.0	13.1	4.5	.9
21	0.0	0.0	0.0	0.0	**	**	**	**	14.4	13.2	4.5	.9
22	0.0	0.0	0.0	0.0	**	**	**	**	14.9	13.0	3.1	.9
23	0.0	0.0	0.0	0.0	**	**	**	**	14.5	11.2	3.2	.9
24	0.0	0.0	0.0	0.0	**	**	**	**	14.9	9.7	3.2	.8
25	0.0	0.0	0.0	0.0	**	**	**	**	15.4	12.1	5.2	.9
26	0.0	0.0	0.0	0.0	**	**	**	**	15.2	12.7	5.8	.9
27	0.0	0.0	0.0	0.0	**	**	**	**	14.9	12.7	2.8	.9
28	0.0	0.0	0.0	0.0	**	**	**	**	15.2	12.1	2.9	.9
29	0.0		0.0	0.0	**	**	**	**	15.2	10.6	2.4	.9
30	0.0		0.0	0.0	**	**	**	**	15.2	10.2	2.1	.9
31	0.0		0.0		**		**	**		9.8		.8
MEAN	0.0	0.0	0.0	0.0	**	**	**	**	15.0	12.6	5.1	1.6

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0									10	1			11
14.0									8	2			21
13.0									8	2			31
12.0										7			40
									2	11			51
10.0										2			53
9.0									1	2			56
8.0											2		62
7.0									1		1		64
6.0											3		67
													57
5.0											8		75
4.0											7		82
3.0											5	12	87
2.0											4		103
1.0												4	
0.0	31	28	31	30								15	122
-1.0													2.8
-2.0													2.2

Station No. 1029, Temperatures, St. Lawrence River at Ogdensburg, New York (B), 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												**
2												**
3												**
4												**
5												**
6												**
7												**
8												**
9												
10												**
11												**
12												**
13												**
14												**
15												**
16												**
17												**
18												0.0
19												-.2
20												-.1
21												-.1
22												-.1
23												-.2
24												0.0
25												0.0
26												0.0
27												.1
28												0.0
29												-.1
30												0.0
31												0.0
MEAN												0.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													
15.0													
14.0													
13.0													
12.0													
11.0													
10.0													
9.0													
8.0													
7.0													
6.0													
5.0													0
4.0													0
3.0													0
2.0													0
1.0													0
0.0												8	8
-1.0												6	14
-2.0													14

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	**	**	**	.7	5.3	11.3	14.3	22.7	**	15.2	8.0	4.0
	**	**	**	.7	5.1	11.5	14.8	22.4	**	15.1	8.3	3.8
3	**	**	**	.7	5.3	12.0	14.6	22.3	**	15.2	8.4	3.4
4	**	**	**	.7	5.4	12.2	14.4	22.3	**	15.3	7.9	3.3
5	**	**	**	.7	5.6	12.5	14.9	22.0	**	15.1	7.6	2.4
6	**	**	**	.7	5.8	13.2	15.1	[illegible]	**	15.1	7.8	2.2
7	**	**	**	.6	6.0	13.5	15.2	[illegible]	**	14.8	8.3	2.3
	**	**	**	.6	6.5	13.6	15.3	[illegible]	**	[illegible]	8.2	2.0
	**	**	**	.7	6.5	13.6	15.3	21.2	**	13.6	8.2	1.7
10	**	**	**	.6	6.6	13.4	15.5	20.5	**	13.4	8.1	1.7
11	**	**	**	.8	6.6	13.0	15.6	20.2	**	13.0	7.8	1.7
12	**	**	**	.9	7.1	12.9	16.0	20.1	**	12.9	7.8	1.5
13	1.6	**	**	1.0	7.3	12.9	16.4	20.0	**	12.9	7.6	1.5
14	1.4	**	**	1.5	7.6	13.1	16.8	19.9	**	12.8	7.3	1.5
15	1.0	**	**	1.5	7.8	13.4	17.4	19.8	17.7	12.6	6.5	1.2
16	1.0	**	**	1.5	7.8	13.1	18.0	19.8	[illegible]	12.5	6.4	.5
17	.9	**	**	1.5	7.8	12.6	18.5	19.6	17.7	12.4	6.2	0.0
18	.9	**	**	1.5	8.1	12.6	18.9	19.6	18.0	12.3	[illegible]	0.0
19	.9	**	**	2.1	8.8	12.8	19.1	19.7	17.8	12.3	6.1	0.0
20	.7	**	**	2.1	9.1	13.1	19.1	19.9	17.1	12.1	6.1	0.0
21	.8	**	**	2.5	9.1	13.4	19.6	19.9	17.1	9.9	5.7	0.0
22	.8	**	**	2.6	9.5	13.9	20.0	20.0	17.3	9.7	5.1	0.0
23	.8		**	2.8	10.3	14.5	20.2	20.0	16.9	9.6	5.1	0.0
24	.8	**	**	2.8	10.3	14.8	20.6	20.2	16.8	9.3	4.7	0.0
25	.7	**	**	2.8	10.3	15.0	21.0	20.5	16.4	9.1	4.8	0.0
26	.8	**	**	3.3	10.6	15.1	20.9	20.7	16.5	9.1	4.4	0.0
27	.8	**	**	3.3	10.9	15.0	21.0	20.6	16.8	9.2	4.3	0.0
28	.9	**	**	3.8	11.1	14.8	21.0	21.0	16.3	9.2	4.4	0.0
29	.9	**	**	4.1	11.2	14.6	20.9	21.2	15.8	8.8	4.1	0.0
30	.9		**	4.7	11.2	14.6	21.0	21.3	15.7	8.9	4.1	0.0
31	.9				11.3		21.3	21.5		8.7		0.0
MEAN	.9	**	**	1.8	8.1	13.4	17.8	20.8	16.9	11.7	5.6	1.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS DAYS
26.0													
25.0													
24.0													0
23.0								5					5
22.0							5	8					18
21.0								10					33
20.0								8					44
19.0									1				48
18.0									6				55
17.0							3		6				64
16.0						3			2	6			81
15.0						5				2			93
14.0						12				3			108
13.0						8				2			118
12.0					3	2				2			125
11.0					5					5			135
10.0					3					8			145
9.0					3					3	5		157
8.0					6						9		172
7.0					5						6		183
6.0					6						3		192
5.0											7	1	202
4.0				2								3	208
3.0				3								4	219
2.0				7								7	235
1.0	4			6								16	279
0.0	15			12									279
-1.0													279
-2.0													

Station No. 1070, Temperatures, St. Lawrence River at Clayton, New York, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												**
2												**
3												**
4												**
5												**
6												**
7												**
8												**
9												**
10												**
11												**
12												**
13												**
14												3.2
15												3.0
16												2.5
17												1.7
18												1.7
19												1.5
20												1.7
21												1.4
22												1.3
23												1.3
24												1.4
25												1.6
26												1.9
27												1.9
28												1.8
29												1.5
30												1.3
31												1.2
MEAN												1.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													
23.0													
22.0													
21.0													
20.0													
19.0													
18.0													
17.0													
16.0													
15.0													
14.0													-
13.0													0
12.0													0
11.0													0
10.0													0
9.0													0
8.0													0
7.0													
6.0													0
5.0													0
4.0													0
3.0											2		2
2.0											1		3
1.0											15		18
0.0													18
-1.0													18
-2.0													18

Station 2000, Temperatures, St. Lawrence River at Cape Vincent, New York, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2					**	11.9	15.4	22.8	21.6	15.9		**
3					**	12.1	15.8	22.5	21.8	15.9		**
4					**	11.7	15.5	22.2	21.4	15.8		**
5					5.5**	12.0	14.5	21.6	20.7	15.8	9.1	**
						12.3	14.2	20.9	20.2	15.9	9.2	**
6					4.9	12.7	14.8	20.7	20.1	16.1		**
7					5.4	12.8	15.2	20.6	20.1	15.4		**
8					5.9	12.5	16.3	20.5	20.2	14.7		**
9					6.2	13.2	17.0	20.2	20.0	13.6		**
10					5.8	12.6	17.1	19.6	19.6	13.2		**
11					6.0	10.6	17.5	**	19.4	13.2	8.8	**
12					6.1	9.5	17.7	**	19.5	13.2	9.2	**
13					6.2	9.6	18.7	**	19.5	12.7	9.1	**
14					6.1	9.8	19.0	19.1	19.4	12.4	6.8	**
15					6.8	11.0	18.7	19.1	19.1	11.8	6.4	**
16					7.8	12.0	19.1	19.1	19.1	11.4	7.7	**
17						12.4	19.7	19.0	19.3	10.8	7.0	**
18					7.7	13.2	20.4	18.8	19.3	11.1	7.6	**
19						14.1	21.0	19.3	18.6	10.7	7.3	**
20					8.8	15.4	22.1	19.4	18.2	10.5	6.9	.5
21					9.5 10.5	16.0	22.5	19.4	18.2	10.5	6.8	.2
22						16.1	22.3	19.7	18.0	10.4		.6
23					10.4	14.1	22.8	20.0	17.8	10.5	6.2	1.6
24					12.0	12.3	22.8	20.3	17.7	9.8	5.9	2.0
25					9.7	12.4	22.5	20.6	17.5	9.9	6.5	1.6
26					9.1	12.9	22.0	20.9	17.7	10.0	5.8	1.9
27					10.2	13.6	22.1	20.9	17.5	10.2	5.6	1.6
28					11.7	13.9	22.2	21.3	16.9	10.1	5.4	1.3
29					11.5	14.1	22.3	21.2	16.7	10.0	5.6	.5
30					11.5	14.4	22.7	21.3	16.2	9.5		.3
31					12.0		22.6	21.3		9.3		.9
MEAN					8.3	12.7	19.2	20.4	19.0	12.3	1.7	1.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							12	3					15
21.0							1	5	3				24
20.0							1	10	6				41
19.0							3	9	9				62
18.0							2	1	4				69
17.0							4		5				78
16.0						2	1		3	1			85
15.0						1	4			6			96
14.0						4	3			1			104
13.0						4				4			112
12.0					3	12				2			129
11.0					2	3				3			137
10.0					3	1				10			151
9.0					3	3				4	10		171
8.0					3						3		177
7.0					2						5		184
6.0					6						7		197
5.0					4						5		206
4.0					1								207
3.0													207
2.0												1	208
1.0												5	213
0.0												6	219
-1.0													219
-2.0													219

Station 2076, Temperatures, Lake Ontario at Olcott, New York, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.8	0.0	.2	2.0	**	9.9	**	19.2	**	15.3		**
2	.9	0.0	.2	1.1	**	10.7	**	20.0	**	15.3	**	**
3	.5	0.0	0.0	1.4	5.9	11.8	**	19.5	**	15.4	**	**
4	.7	0.0	.1	2.0	5.8	13.3	**	16.9	**	15.3	**	**
5	.2	0.0	.1	1.4	6.0	13.1	**	15.6	**	14.6	**	**
6	.2	0.0	0.0	1.7	5.5	12.4	**	15.9	**	12.8	**	**
7	.1	0.0	0.0	1.1	5.8	14.2	[illegible]	17.4	**	13.4	**	**
8	.1	0.0	.1	1.3	5.6	14.6	[illegible]	19.0	**	12.4	**	**
9	.2	0.0	0.0	1.1	5.8	15.2	15.1	19.2	**	11.5	**	**
10	.6	0.0	.2	1.6	6.4	15.0	[illegible]	18.2	**	13.0	**	**
11	.8	0.0	.1	1.5	6.7	14.1	[illegible]	18.5	**	13.2	**	**
12	.7	0.0	.1	2.0	7.9	**	[illegible]	18.9	**	13.3		**
13	1.0	0.0	.2	3.7	7.0	**	18.7	18.4	**	12.2	**	**
14	.5	0.0	.3	3.8	6.0	**	[illegible]	17.5	**	11.9	**	**
15	.2	0.0	.2	3.8	5.9	**	[illegible]	15.9	**	10.6	**	**
16	.1	0.0	.2	3.1	6.5	**	[illegible]	9.4	**	10.4	**	**
17	0.0	.1	.1	3.8	7.3	**	19.3	9.3	**	9.3	**	**
18	.1	.1	.1	**	6.7	**	[illegible]	15.4	**	9.9	**	**
19	.2	.2	.2	**	6.2	**	[illegible]	19.6	**	10.0	**	**
20	.2	.2	.2	**	6.0	**	[illegible]	19.6	**	9.9	**	**
21	.2	.2	.1	**	7.0	**	[illegible]	20.2	**	9.7	**	**
22	.3	.1	.1	**	6.5	**	[illegible]	21.6	**	9.8	**	**
23	1.0	.2	.1	**	6.4	**	[illegible]	22.4	**	10.2	**	**
24	1.0	.2	.1	**	8.8	**	[illegible]	22.7	**	9.8	**	**
25	.6	.2	.1	**	8.4	**	[illegible]	22.3	**	8.6	**	**
26	.1	.1	.2	**	5.8	**	[illegible]	22.0	**	8.3	**	**
27	0.0	.1	.2	**	5.0	**	[illegible]	20.7	[illegible]	9.2	**	**
28	0.0	.1	.1	**	5.8	**	[illegible]	22.2	13.6	9.9	**	**
29	0.0	.1	.2	**	8.0	**	22.2	21.9	9.7	10.0	**	**
30	0.0		.5	**	8.4	**	[illegible]	21.0	[illegible]	9.0	**	**
31	0.0		1.1		9.6		[illegible]	**		8.3		**
MEAN	.4	.1	.2	2.1	6.6	13.1	[illegible]	18.7	[illegible]	11.4	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0							3						3
22.0							4	5					12
21.0							3	3					18
20.0							1	3					22
19.0							5	6					33
18.0							3	4					40
17.0							1	2	1				44
16.0							1	1					46
15.0						2	3	4		4			59
14.0						3	1			1			64
13.0						2			1	4			71
12.0						1				3			75
11.0						1			1	2			79
10.0						1				5			85
9.0					1	1		2	1	9			99
8.0					4					3			106
7.0					4								110
6.0					10								120
5.0					10								130
4.0													130
3.0				5									135
2.0				3									138
1.0	3		1	9									151
0.0	28	29	30										239
-1.0													238
-2.0													238

Station No. 2092, Temperatures, Niagara River at Lewiston, New York, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					**	9.8	16.1	23.6	23.0	18.1	10.3	5.2
2					**	11.3	16.5	23.4	23.0	18.1	10.6	4.9
3					**	11.9	**	23.4	22.1	18.1	10.6	4.9
4					**	12.8	17.0	23.1	21.6	18.1	10.3	4.4
5					**	12.7	16.5	23.0	21.3	18.1	10.1	4.2
6					**	12.6	16.8	22.8	21.3	18.0	10.0	4.9
7					**	12.4	17.0	22.6	21.1	17.5	10.0	4.3
8					**	13.0	17.4	22.3	21.0	16.7	10.2	3.9
9					**	14.2	17.6	21.9	20.9	15.9	9.9	4.4
10					3.8	14.0	18.0	21.4	20.8	15.4	9.8	4.5
11					4.3	13.2	18.8	21.2	20.8	15.4	10.0	4.1
12					4.3	13.2	19.5	21.4	20.8	15.7	9.8	3.7
13					**	13.5	19.5	21.5	20.8	14.9	9.7	4.6
14					**	14.3	20.1	21.6	20.8	14.7	8.7	3.9
15					**	15.5	20.5	21.4	20.7	14.1	8.0	4.1
16					**	15.7	20.5	21.0	20.6	13.7	8.0	3.8
17					6.3	15.7	20.9	20.9	20.8	13.1	8.1	2.6
18					7.0	15.8	21.2	21.3	20.9	12.5	8.2	2.3
19					7.8	16.2	21.5	21.5	20.7	12.2	8.3	2.5
20					7.8	16.5	22.1	21.6	20.2	12.2	8.0	2.5
21					7.4	17.1	22.6	21.7	20.2	11.9	7.5	2.8
22					8.1	16.4	23.7	21.8	19.8	11.7	7.5	3.1
23					8.3	14.5	23.9	22.1	19.5	11.8	7.2	3.0
24					8.3	13.8	24.4	22.5	19.5	11.6	6.9	3.0
25					9.3	13.8	24.2	22.8	19.7	11.1	6.6	2.9
26					9.3	14.3	23.5	22.9	19.8	10.8	6.6	2.7
27					9.0	15.0	23.1	23.1	19.5	10.9	6.1	2.6
28					9.2	15.8	23.1	22.9	19.1	11.1	5.6	2.5
29					9.2	16.6	23.0	22.9	19.2	11.1	5.3	2.0
30					9.6	16.5	23.1	22.9	18.5	10.7	5.0	2.3
31					9.4		23.2	23.0		10.3		2.9
MEAN					7.7	14.3	20.5	22.2	20.6	14.0	8.4	3.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0							2						2
23.0							8	7	2				19
22.0							2	10	1				32
21.0							2	13	5				52
20.0							4	1	13				70
19.0									8				80
18.0							2		1	6			89
17.0							4			1			95
16.0							4			1			105
15.0										4			115
14.0										3			123
13.0						8				2			131
12.0						4				3			138
11.0										7			147
10.0										4	9		160
9.0					7	1					4		172
8.0					3						7		182
7.0					4						3		189
6.0					1						4		194
5.0											3	1	198
4.0					2							11	211
3.0					1							7	219
2.0												12	231
1.0													231
0.0													231
-1.0													231
-2.0													231

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		0.0	0.0	0.0	0.0	9.4	**	23.5	**	19.9	**	**
2	**	0.0	0.0	0.0	0.0	9.6	17.6	23.2	**	19.8	**	**
3	1.8	.0	0.0	.1	0.0	11.6	17.9	23.1	**	17.5	**	**
4	2.1	0.0	0.0	.2	0.0	12.9	17.7	22.8	**	17.6	**	**
5	2.3	0.0	0.0	.1	0.0	13.5	17.5	22.8	**	17.6	**	**
6	2.2	0.0	0.0	0.0	1.6	13.6	17.7	22.4	**	17.6	**	**
7	1.8	0.0	0.0	0.0	5.6	13.9	18.3	22.1	**	17.1	**	**
8	1.2	0.0	0.0	0.0	4.0	14.8	18.8	21.7	**	16.5	**	**
9	1.1	0.0	0.0	0.0	4.0	15.4	19.0	21.5	**	15.5	**	**
10	1.1	0.0	0.0	0.0	4.0	15.2	19.2	20.7	**	14.5	**	**
11	1.2	0.0	0.0	0.0	4.0	14.1	19.6	20.7	**	14.3	**	**
12	1.2	0.0	0.0	0.0	5.7	13.8	19.7	20.7	**	14.5	**	**
13	1.7	0.0	0.0	0.0	6.6	13.9	20.5	20.8	**	14.0	**	**
14	1.4	0.0	0.0	0.0	7.1	14.6	21.3	21.1	**	14.1	**	**
15	.6	0.0	0.0	0.0	7.8	15.8	21.4	21.0	**	13.9	**	**
16	0.0	0.0	0.0	0.0	8.3	16.3	21.7	20.6	**	12.9	**	**
17	0.0	0.0	0.0	0.0	9.0	16.2	21.8	20.6	**	12.2	**	**
18	0.0	0.0	0.0	.3	9.5	15.8	21.8	20.6	**	12.1	**	**
19	0.0	0.0	0.0	.2	9.9	15.9	22.6	21.0	**	12.1	**	**
20	0.0	0.0	0.0	.3	9.0	16.9	23.1	21.5	19.8	12.1	**	**
21	0.0	0.0	0.0	.1	9.5	17.6	24.1	21.7	20.0	11.5	**	**
22	0.0	0.0	0.0	0.0	9.8	17.1	24.9	21.9	19.8	11.6	**	**
23	0.0	0.0	0.0	0.0	9.6	15.4	25.2	22.3	19.8	11.5	**	**
24	0.0	0.0	0.0	.1	9.0	14.8	25.3	22.6	19.9	11.6	**	**
25	.1	0.0	0.0	.5	9.5	14.4	25.0	23.0	19.8	11.3	**	**
26	0.0	0.0	0.0	0.0	9.6	14.8	23.8	23.3	19.8	11.4	**	**
27	0.0	0.0	0.0	.1	9.4	15.7	23.6	23.2	19.6	11.1	**	**
28	0.0	0.0	0.0	0.0	9.6	16.9	23.3	22.9	19.6	11.1	**	**
29	0.0	0.0	0.0	0.0	9.8	17.4	23.3	22.9	19.5	11.1	**	**
30	0.0		0.0	0.0	9.5	17.1	23.2	22.8	19.6	11.1	**	**
31	0.0		0.0		9.5		23.5	22.9		11.4		**
MEAN	.7	0.0	0.0	.1	6.6	14.8	21.4	22.0	19.7	13.9	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0							3						3
24.0							2						5
23.0							7	6					18
22.0							1	10					29
21.0							5	8					42
20.0							1	7	1				51
19.0							4		10				67
18.0							2						69
17.0						4	5			5			83
16.0						4				1			88
15.0										1			96
14.0										5			107
13.0										1			113
12.0										5			119
11.0										11			131
10.0													131
9.0					15	2							148
8.0					1								149
7.0					2								151
6.0					2								153
5.0													154
4.0													158
3.0													158
2.0	3												161
1.0	9				1								171
0.0	17		31	30	5								283
-1.0													283
-2.0													283

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.7	.7	.8	3.2	9.6						**	**
2	2.7	.5	.2	3.2	10.2	16.8 17.0	**	23.0 **	**	**	**	**
3	2.7	.6	0	3.8	10.6	17.3	19.0	**	**	**	**	**
4	2.6	.8	.1	4.3	11.7	17.8	**	23.0	**	**	**	**
5	2.1	.9	.8	5.1	12.1	18.5	**	**	**	**	**	**
6	2.0	.8	.6	5.5	11.3	18.0	**	**	**	**	**	**
7	2.0	.6	.7	4.3	12.5	18.5	19.0	22.0	**	**	**	**
8	2.0	.6	.9	**	12.0	18.4	**	**	**	**	**	**
9	2.1	.6	.6	**	11.6	18.5	**	**	**	**	**	**
10	2.0	.8	.6	3.8							**	**
11	2.0	.9	.8	4.4	11.0	17.8 17.8	19.0 **	20.0 **	**	**	**	**
12	2.0	.9	1.3	5.2	11.5	17.7	**	**	**	**	**	**
13	2.0	.9	.8	6.8	11.2	17.7	**	**	**	**	**	**
14	1.0	.9	.8	7.8	11.3	18.0	20.0	21.0	**	**	**	**
15	.8	.9	.9	7.5	11.9	18.2	**	**	**	**	**	**
16	.8	.9	1.2	7.3	13.1	19.8	**	**	**	**	**	**
17	.8	.9	1.4	8.4	14.0	20.3	22.0	**	**	**	**	**
18	.9	1.0	1.6	8.2	14.4	20.1	**	22.0	**	**	**	**
19	.9	.8	1.4	8.4	15.8	19.5	**	**	**	**	**	**
20	.9	.5	1.7	9.1	15.9	18.9	**	**	**	**	**	**
21	.8	.6	2.0	9.2	15.7	18.5	25.0	22.0	**	**	**	**
22	.9	.6	2.9	9.2	17.0	**	**	**	**	**		**
23	1.1	.5	2.7	10.0	16.2	**	**	**	**	**	**	**
24	1.1	.6	2.4	10.1	15.9	**	26.0	**	**	**	**	**
25	1.0	.6	2.2	9.4	17.1	**	**	22.0	**	**	**	**
26	.4	.6	2.5	9.7	17.8	**	**	**	**	**	**	**
27	.5	.6	3.0	10.0	17.8	**	**	**		**		**
28	.6	.7	3.5	9.7	17.6	**	23.0	21.0	**	**	**	**
29	.6		2.6	9.2	17.2	**	**	**	**	**	**	**
30	.8		2.6	9.3	17.9	**	**	**	**	**	**	**
31	.8		2.8		16.9		23.0	**		**		**
MEAN	1.4	.7	1.6	7.2	13.9	18.3	21.8	21.8	**	**	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													1
25.0													2
24.0							1						2
23.0							2	2					6
22.0							1	4					11
21.0								2					13
20.0						2	1	1					17
19.0						3	3						22
18.0						6							31
17.0					7	7							45
16.0					2	1							48
15.0					4								52
14.0					2								54
13.0					1								55
12.0					3								58
11.0					9								67
10.0				3	2								72
9.0				8	1								81
8.0				3									84
7.0				3									87
6.0				1									88
5.0				3									91
4.0				3									94
3.0			2	4									100
2.0	13		9										122
1.0	4	1	9										135
0.0	14	28	11										189
-1.0													189
-2.0													189

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**		**	9.6	16.4		**	**	**	**
2	**	**	**	**	**	10.0	16.7	**	**	**	**	**
3	**	**	**	**	**	10.0	16.4	**	**	**	**	**
4	**	**	**	**	**	10.2	15.9	**	**	**	**	**
5	**	**	**		**	11.6	15.8		**	**	**	**
6	**	**	**	**	**	12.5	16.1	**	**	**	**	**
7	**	**	**	**	**	13.4	15.5	**	**	**	**	**
8	**	**	**	**	**	13.6	15.0	**	**	**	**	**
9	**	**	**	**	**	13.6	14.8		**	**	**	
10	**		**		**	11.5	15.1	**	**	**	**	**
11	**	**	**	**	**	11.2	15.3	**	**	**	**	**
12	**	**	**	**	**	11.3	15.6	**	**	**	**	**
13	**	**	**	**	**	11.4	15.5		**	**	**	
14	**		**	**	**	11.1	15.7	**	**	**	5.0	**
15	**	**	**	**	**	11.2	14.8	**	**	**	[illegible]	**
16	**	**	**	**	**	11.4	15.1	**	**	11.2	[illegible]	**
17	**	**	**		**	11.8	18.1		**	11.3	[illegible]	**
18	**		**	**	11.3	12.6	17.5	**	**	11.4	6.1	**
19	**	**	**	**	12.3	13.9	18.7	**	**	**	5.4	**
20	**	**	**	**	13.0	14.0	18.1	**	**	9.0	[illegible]	**
21	**	**	**		12.4	13.3	18.8		**	8.9	4.7	**
22	**		**	**	13.4	11.5	17.3	**	**	9.0	4.4	**
23	**	**	**	**	13.3	10.7	15.9	**	**	9.8	4.3	**
24	**	**	**	**	13.8	11.4	17.5	**	**	9.7	4.0	**
25	**	**	**	**	14.6	12.5	18.7		**	8.8	3.6	**
26	**		**	**	14.1	13.1	18.4	**	**	8.8	4.1	**
27	**	**	**	**	13.0	14.3	18.4	**	**	8.9	4.1	**
28	**	**	**	**	14.1	14.8	18.9	**	**	8.8	3.6	**
29	**	**	**		13.1	15.8	19.1	**	**	9.4	3.7	**
30	**		**	**	10.4	16.6	19.7	**	**	8.1	[illegible]	**
31	**		**		9.3		19.3	**		7.6		**
MEAN	**	--	**	--	12.7	12.3	16.9	**	**	9.4	4.6	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0							3						3
18.0							8						11
17.0						1	3						14
16.0						1	5						20
15.0					3		10						31
14.0					6	3	2						39
13.0						6							51
12.0					2	3							56
11.0					1					3			71
10.0					1	114							76
9.0					1	1				5			83
8.0										6			89
7.0										1			90
6.0											2		92
5.0											3		95
4.0											9		104
3.0											3		107
2.0													107
1.0													107
0.0													107
-1.0													107
-2.0													107

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	.9		1.2	1.2	7.7	9.9	15.0	20.6	18.7	**	7.9	3.1
	1.2	2.2	.9	1.7	7.7	9.6	16.3	21.1	18.5	12.8	8.2	**
	1.7	1.9	1.3	1.7	7.5	9.0	16.8	16.3	17.8	13.4	8.6	**
4	1.5	2.3	1.2	1.9	8.3	11.1	16.2	18.1	17.6	13.4	8.2	**
5	1.8	2.0	1.4	2.0	8.4	12.6	16.1	19.0	17.7	13.1	8.4	**
6	2.9	1.9	1.7	1.3	9.3	12.7	15.2	16.1	18.4	12.7	8.3	**
7	1.8	1.5	1.3	1.4	9.2	13.5	14.6	17.5	18.5	13.3	8.5	**
8	1.0	2.3	1.7	1.4	9.6	12.0	12.4	17.3	18.6	12.8	9.1	**
9	1.0	2.8	1.7	1.7	9.9	14.1	11.2	17.0	17.9	12.2	8.9	**
10	1.4	3.5	1.6	1.8	10.1	13.3	10.6	17.1	18.0	11.7	7.7	**
11	1.4	3.5	1.4	2.1	8.7	13.1	13.0	17.7	18.0	11.8	7.9	.6
12	1.3	2.4	1.6	2.3	9.4	13.3	12.1	17.7	18.6	12.3	7.8	.6
13	2.3	2.6	1.3	2.4	9.2	12.9	11.2	18.0	18.8	11.8	7.8	.2
14	2.3	2.4	1.3	3.2	8.7	12.9	13.7	18.0	18.3	11.5	7.9	1.6
15	1.6	3.2	1.2	3.9	8.9	12.5	11.7	18.7	18.2	10.9	5.4	.6
16	1.6	3.8	1.3	2.9	10.0	13.8	13.1	18.8	18.5	10.6	3.6	1.2
17	1.7	2.1	1.3	3.1	9.8	14.7	14.2	18.0	18.9	10.5	4.3	.1
18	2.1	1.4	1.2	3.3	9.7	15.3	12.2	18.6	19.5	9.8	3.4	0.0
19	1.4	1.5	1.6	4.0	12.7	15.8	11.5	19.1	19.4	9.0	4.6	.7
20	1.9	1.1	1.5	3.6	12.1	12.8	13.3	19.9	18.1	8.1	5.2	.7
21	1.3	1.2	1.5	4.5	12.2	13.0	13.2	18.2	13.4	8.3	5.5	1.0
22	1.3	1.9	1.3	1.4	14.3	12.2	15.4	16.3	11.9	8.9	5.0	2.3
23	1.3	1.9	1.4	2.4	12.2	11.4	16.6	17.3	13.5	9.4	4.1	2.5
24	1.3	1.7	1.5	2.9	13.1	12.2	19.2	18.2	14.1	10.1	3.7	3.0
25	2.2	2.0	1.5	3.6	14.4	12.9	20.9	15.8	11.8	8.5	3.2	2.3
26	3.4	3.0	1.6	5.1	13.7	13.6	20.8	18.6	11.8	8.3	3.8	2.0
27	2.0	2.2	1.7	5.8	12.2	14.2	21.3	17.5	14.2	8.5	3.6	1.4
28	2.2	1.4	1.7	6.1	8.6	14.0	2.0	17.9	14.1	9.2	3.2	2.2
29	2.2	1.2	1.8	6.6	9.3	15.2	22.3	18.9	12.3	9.1	2.7	.1
30	2.1		1.5	6.6	9.8	15.7	21.4	19.8	11.9	8.5	2.5	0.0
31			1.2		9.9		17.2	19.4		8.7		.4
MEAN	1.8	2.2	1.5	3.1	10.2	13.0	15.5	18.1	16.6	10.6	6.0	1.2

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							2						
21.0							2	1					5
20.0							2	1					8
19.0							1	5	2				15
18.0							1	19	14				41
17.0							5	3	4				55
16.0						4	3						63
15.0						4	2	1					71
14.0					2								82
13.0					2	7	5		2	4			102
12.0					5	10	3		1	5			125
11.0						2	4			4			140
10.0					2	2	1		4	4			147
9.0										5	1		167
8.0					11	3				8	7		189
7.0					3						6		197
6.0				3									200
5.0				2							4		206
4.0				2							3		211
3.0	1	5		6							7	2	232
2.0	9	12		7							2	5	267
1.0	20	12	30	10								4	343
0.0	28	12	38	10								11	356
-1.0	1		1										355
-2.0													356

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.8	.5	**	.4	1.2	8.6	**	19.0	18.3	12.6	6.5	2.7
2	1.2	.5	**	.4	.9	8.7	15.0	**	17.9	13.2	6.5	2.6
3	.8	.4	**	.5	1.3	9.1	**	18.5	17.7	12.8	6.3	1.5
4	.5	.4	**	.5	2.0	10.7	**	**	17.6	12.8	5.9	1.4
6	.5	.5	.2	.5	3.0	11.5	15.0	18.0	17.4	12.0	6.0	2.1
7	.5	.5	.3	.5	3.7	10.7	14.0	**	17.2	13.7	6.4	1.4
	.4	.4	.4	.6	3.7	11.3	**	17.8	15.6	12.6	6.6	1.0
8	.4	.5	.4	.5	3.7	10.8	15.0	15.9	16.3	11.8	6.7	1.5
9	.5	.5	.2	.5	**	**	16.0	14.9	16.2	11.8	6.3	1.4
10	.4	.4	**	.4	**	13.6	16.0	14.5	16.0	11.8	5.8	1.1
11	.5	.5	.3	.5	4.5	13.6	**	14.3	16.3	**	5.8	1.0
12	.3	.4	.2	.4	6.0	13.0	17.0	15.3	16.3	11.4	6.0	1.0
13	.4	.4	.1	.5	**	13.5	16.0	15.6	16.1	10.0	5.5	1.0
14	.2	.4	.3	.4	**	13.2	**	15.8	**	10.7	4.8	.8
15	.3	.4	.4	.5	5.2	14.1	16.0	15.4	**	10.1	4.7	1.0
16	.3	.4	.3	.6	5.1	**	**	13.0	11.7	9.5	5.0	.2
18	.3	.4	.4	.8	5.6	**	17.0	13.8	14.3	9.8	4.7	0.0
19	.5	.4	.4	.6	5.8	**	17.0	15.4	14.5	9.2	4.7	0.0
	.6	.4	.4	.6	6.0	**	**	16.4	14.5	9.2	5.0	0.0
20	.4	.5	.4	.6	5.8	**	**	16.6	11.6	8.7	4.6	0.0
21	.4	.4	.4	.8	8.5	**	18.0	16.3	11.9	8.3	4.5	0.0
22	.4	.5	.4	.7	8.1	**	18.0	17.3	13.6	8.3	4.2	0.0
23	.5	.5	.6	.6	6.1	**	17.0	17.4	13.1	7.8	4.3	0.0
24	.5	.3	.6	.7	7.1	**	**	16.6	13.6	7.5	4.0	.4
25	.4	.4	.5	.8	6.9	**	17.0	17.0	14.6	7.9	4.6	.4
26	.3	.4	.5	1.0	6.0	**	18.0	17.2	14.0	7.6	4.5	.1
27	.3	.3	.5	1.1	5.3	**	18.0	16.5	13.8	7.5	4.4	0.0
28	.4	.2	.4	1.3	5	**	19.0	16.7	12.2	7.5	4.0	.1
29	.5	0.0	.4	1.6	5.6	**	**	17.3	12.7	7.5	3.6	0.0
30	.5		.4	1.2	7.5	**	19.0	17.9	12.7	6.9	3.1	.1
31	.7		.6		8.0		**	18.2		6.5		.1
MEAN	.5	.4	.4	.7	5.2	11.6	16.7	16.4	15.0	10.1	5.2	.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0							2	1					3
18.0							4	3	1				11
17.0							5	7	5				28
16.0							4	6	7				45
15.0							3	6					54
14.0						1	1	3	5				64
13.0						5		2	4	6			81
12.0									3	2			86
11.0						2			3	4			93
10.0						3				2			100
9.0						1				3			104
8.0					3	2				5			114
7.0					2					6			122
6.0					6					2	9		139
5.0					7						6		152
4.0					1						13		166
3.0					4						2		172
2.0					1							3	176
1.0	1			5	2							11	195
0.0	30	29	26	25	1							17	323
-1.0													323
-2.0													323

Station No. 7058, Temperatures, Lake Michigan at Milwaukee, Wisconsin, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	**	**	**	**	**	**
2	**	**	**	**	**	**	**	**	**	**	**	**
	**	**	**	**	**	**	**	**	**	**	8.3	**
4	**		**	**	**	**	**	**	**		8.2	**
5	**	**	**	**	**	**	**	**	**	**	8.6	2.4
6	**	**	**	**	**		**	**	**	**	9.1	2.2
7	**	**	**	**	**	**	**	**	**	**	9.0	1.3
8	**		**	**	**	**	**	**	**	**	8.6	1.5
9	**	**	**	**	**	**	**	**	**	**	8.5	1.6
10	**	**	**	**	**	**	**	**	**	**	8.9	1.3
11	**	**	**		**	**	**	**	**	**	8.5	1.2
12	**		**	**	**	**	**	**	**	**	8.4	1.1
13	**	**	**	**	**	**	**	**	**	**	7.8	**
14	**	**	**	**	**	**	**	**	**	**	**	**
15	**	**	**	**	**	**	**	**	**	**	**	**
16	**	**	**	**	**	**	**	**	**	**	**	.8
17	**	**	**	**	**	**	**	**	**	**	**	.8
18	**	**	**	**	**	**	**	**	**	**	**	.8
19	**	**	**	**	**	**	**	**	**	**	**	.8
20	**	**	**	**	**	**	**	**	**	**	**	.8
21	**	**	**	**	**	**	**	**	**	**	**	.8
22	**	**	**	**	**	**	**	**	**	**	**	.8
23	**	**	**	**	**	**	**	**	**	**	**	.8
24	**	**	**	**	**	**	**	**	**	**	**	.8
25	**	**	**	**	**	**	**	**	**	**	**	.7
26	**	**	**	**	**	**	**	**	**	**	**	.7
27	**	**	**	**	**	**	**	**	**		5.1	.7
28	**	**	**	**	**	**	**	**	**	**	4.7	.7
29	**	**	**	**	**		**	**	**	**	4.3	.6
30	**		**	**	**		**	**	**	**	4.2	**
31	**		**		**		**	**		**		**
MEAN	**	**	**	**	**		**	**	**	**	7.5	1.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0													0
11.0													0
10.0													0
9.0											2		2
8.0											8		10
7.0											1		11
6.0													11
5.0											1		12
4.0											3		15
3.0													15
2.0													17
0.00												6	23
-1.00												14	37
-1.0													37
-2.0													37

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.1	**	**	.9	**	**	**	**	15.9	11.2	7.4	4.4
2	2.3	**	**	.9	**		**	**	15.4	11.6	7.9	4.8
3	2.2	**	**	1.0	**	**	**	**	**	12.1	11	**
4	1.3	**	**	1.2	**	**	**	**	**	12.4	7.7	**
5	.7	**	**	1.0	**	**	**	**	**	12.2	7.5	**
6	1.1	**	**	.9	**		**	**	**	11.6	7.0	2.3
7	2.2	**	**	.8	**	**	**	14.1	**	11.0	7.5	1.1
8	.9	**	**	.8	**	**	**	14.1	**	10.5	6.6	1.5
9	.9	**	**	.7	**	**	**	13.3	**	9.8	6.0	.9
10	1.0	**	**	.8	**	**	**	14.5	**	9.4	6.5	.8
11	.8	**	**	.8	**		**	14.0	**	9.6	6.2	1.0
12	.9	**	**	1.0	**	**	**	13.2	15.6	9.6	6.0	.9
13	.9	**	**	.7	**	**	**	14.6	15.8	9.5	6.2	1.1
14	1.1	**	**	.7	**	**	**	15.2	14.9	9.4	5.8	1.2
15	.9	**	.7	.7	**	**	**	15.8	14.9	9.1	5.2	0.0
16	.5	**	.9	.8	**	**	**	16.4	14.2	8.6	6.5	.2
17	.4	**	.9	.9	**	**	**	14.4	13.7	8.1	6.4	.3
18	.4	**	.8	.9		**		12.6	14.5	8.1	6.3	1.1
19	.8	**	.8	.9	**	**		14.1	14.8	8.3	5.4	.6
20	.6	**	.9	.9	**	**	**	15.8	15.2	8.1	5.8	0.0
21	.6	**	.9	.9	**	**	**	15.6	13.4	8.3	5.0	.3
22	.7	**	.7	1.1		**		15.5	11.6	8.3	5.1	1.1
23	1.1	**	.8	1.2	**	**	**	15.6	12.2	8.3	5.4	.5
24	.7	**	.8	1.1	**	**	**	15.9	12.8	8.4	4.1	1.1
25	.6	**	.8	1.2	**	**	**	14.4	12.0	7.8	3.9	.5
26	.6	**	.9	1.2		**		15.6	11.9	7.9	4.8	.7
27	.6	**	.9	1.2	**	**	**	14.1	11.2	8.0	5.0	1.8
28	.6	**	.8	.7	**	**	**	13.9	11.4	8.4	5.5	1.5
29	.6	**	.8	.7	**	**	**	15.7	11.1	7.8	4.4	1.0
30	.6		.9	.7		**		16.3	10.8	7.3	4.1	1.0
31	.8		.8		**		**	15.8		7.6		1.0
MEAN	.9	**	.8	.9	**	**	**	14.8	13.5	9.3	6.3	1.2

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUNN	JULL	AUGG	SEPP	OCTCT	NOVOV	DECEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0								2					0
16.0								10					2
15.0								10	5				17
14.0								9	5				31
13.0								3	2				36
12.0								1	3	3			43
11.0								1	5	8			52
10.0									1	1			54
9.0										7			61
7.0										11			72
7.0											9		86
6.0											11		97
5.0											5		102
4.0											4	2	108
3.0											1		109
1.0	8			10							1	1	113
0.0	22		17	20								11	142
0.0	22		17	20								12	213
-1.0													213
-2.0													213

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1972

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	0.0	0.0	0.0	.8	9.6	14.5	12.9	12.9	10.4	6.1	2.1
2	0.0	0.0	0.0	0.0	.8	8.9	13.7	14.3	12.9	10.8	6.1	1.8
3	0.0	0.0	0.0	0.0	.8	9.9	12.6	14.1	13.1	11.1	5.7	1.8
4	0.0	0.0	0.0	0.0	.8	9.5	13.0	15.0	12.9	11.2	5.9	1.8
5	0.0	0.0	0.0	0.0	.9	8.4	13.4	15.7	13.3	11.8	5.9	1.9
6	0.0	0.0	0.0	0.0	1.6	9.3	14.0	15.8	13.6	11.6	5.9	1.7
7	0.0	0.0	0.0	0.0	1.9	10.4	14.4	12.7	13.7	11.2	6.0	1.7
8	0.0	0.0	0.0	0.0	3.3	10.7	14.4	8.7	13.9	11.1	5.9	**
9	0.0	0.0	0.0	0.0	4.4	10.7	14.0	8.1	14.6	9.9	5.4	**
10	0.0	0.0	0.0	0.0	2.9	8.8	14.5	8.8	14.3	9.7	5.5	**
11	0.0	0.0	0.0	0.0	2.9	6.2	12.2	10.6	14.6	9.9	5.6	1.3
12	0.0	0.0	0.0	0.0	5.8	6.6	14.2	13.2	14.9	9.8	5.6	1.3
13	0.0	0.0	0.0	.1	5.7	8.4	13.2	11.0	14.8	9.7	4.4	1.3
14	0.0	0.0	0.0	0.0	6.1	8.9	14.3	11.2	14.6	9.8	3.5	1.2
15	0.0	0.0	0.0	0.0	6.9	9.9	15.4	9.0	14.7	9.4	3.4	.8
16	0.0	0.0	0.0	0.0	8.3	10.2	15.3	9.7	14.1	9.0	3.5	.5
17	0.0	0.0	0.0	0.0	8.7	9.8	15.1	10.5	13.8	8.1	3.4	.5
18	0.0	0.0	0.0	0.0	7.5	9.5	16.0	11.3	14.0	6.8	3.3	.5
19	0.0	0.0	0.0	0.0	8.7	10.0	16.0	11.2	13.6	6.7	3.4	.7
20	0.0	0.0	0.0	0.0	9.4	10.4	16.0	11.5	13.6	7.1	3.4	.9
21	0.0	0.0	0.0	0.0	9.5	10.3	16.0	13.0	13.4	7.1	3.3	.9
22	0.0	0.0	0.0	0.0	7.4	11.0	15.6	12.2	12.7	7.1	3.2	.9
23	0.0	0.0	0.0	0.0	8.2	9.5	16.1	8.7	12.9	7.1	3.2	.9
24	0.0	0.0	0.0	0.0	8.8	9.4	16.9	9.2	13.2	6.7	3.2	.9
25	0.0	0.0	0.0	0.0	8.0	10.6	16.7	11.2	13.2	6.7	3.3	1.0
26	0.0	0.0	0.0	0.0	7.6	11.5	16.1	10.2	12.4	6.8	3.2	.7
27	0.0	0.0	0.0	0.0	8.4	10.8	16.3	9.7	12.0	7.6	3.3	.7
28	0.0	0.0	0.0	0.0	9.5	10.0	15.9	11.9	10.3	7.9	3.2	.7
29	0.0	0.0	0.0	0.0	9.0	11.8	15.3	11.6	9.6	6.9	2.4	.7
30	0.0		0.0	0.0	7.8	13.8	16.7	11.2	9.8	6.5	2.0	.7
31	0.0		0.0		8.0		17.4	12.0		6.5		.8
MEAN	0.0	0.0	0.0	0.0	5.8	10.0	15.0	11.5	13.2	8.8	4.3	1.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0							1						1
17.0							10						11
16.0							6	3					20
15.0							8	2	9				39
14.0						1	4	2	11				57
13.0							2	4	7				70
12.0						4		9		6			89
11.0						9		3	1	2			104
10.0					4	10		4	2	8			132
9.0					8	6		4		1			151
8.0					4					6			161
7.0					2					8	3		174
6.0					1						9		184
5.0					2						1		187
4.0					1						15		203
3.0													208
2.0					2						2	1	
1.0					1							11	220
0.0	31	29	31	30	6							16	363
-1.0													363
-2.0													363

Station No. 1029, Temperatures, St. Lawrence River at Ogdensburg, New York (B), 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.3	.2	0.0	4.6	**	**	19.1	22.6	23.4	17.2	11.4	4.4
2	.2	.2	0.0	4.5	**	**	19.3	22.7	23.7	17.2	10.9	3.9
3	.1	.2	0.0	4.6	**	**	19.7	23.0	23.9	17.3	10.3	3.7
4	.2	.2	0.0	4.6	**	**	20.1	23.2	24.1	17.4	9.8	4.2
5	.2	.2	0.0	4.9	**	**	20.4	23.1	24.4	17.2	9.3	4.5
6	.1	.2	0.0	5.1	**	**	20.5	23.2	24.2	16.8	8.6	4.4
7	.2	.2	0.0	5.9	**	14.2	20.7	23.3	23.4	16.5	7.9	4.0
8	.2	0.0	.1	4.0	**	14.3	21.0	23.3	22.8	16.4	7.5	3.8
9	.2	.1	.2	3.7	**	14.9	21.2	23.5	22.4	16.3	6.9	3.0
10	.2	.1	.2	3.6	**	15.4	21.1	23.8	22.0	16.1	6.4	3.0
11	.2	.2	.1	4.2	**	15.6	20.9	24.0	21.6	15.7	6.3	3.0
12	.2	.2	0.0	4.6	**	15.9	20.4	24.0	21.3	15.8	6.0	2.2
13	.2	.2	.3	4.9	**	16.2	20.4	23.8	21.1	15.9	6.2	2.3
14	.2	.2	.5	6.7	**	16.9	20.7	24.0	20.8	15.5	6.8	1.8
15	.2	.1	1.0	6.1	**	16.7	20.9	24.0	20.4	14.9	6.7	1.0
16	.2	.2	1.9	6.7	**	16.0	20.9	23.9	0.1	14.5	**	1.0
17	.2	.2	2.0	7.1	**	15.9	21.1	24.1	19.5	14.0	**	.4
19	.2	.1	2.4	7.0	**	16.1	21.3	24.3	19.1	13.8	**	.1
20	.2	0.0	**	7.6	**	16.1	21.5	24.3	18.8	13.5	**	.5
	.2	0.0	**	7.7	**	16.2	21.5	24.3	18.5	13.4	**	.4
21	.2	0.0	**	7.9	**	16.6	21.7	24.1	18.1	13.1	**	.1
22	.2	0.0	**	8.4	**	16.8	22.0	23.5	17.7	2.9	**	0.0
23	.2	0.0	**	8.4	**	17.0	22.2	22.9	17.7	12.9	**	0.0
24	.2	0.0	**	**	**	17.4	22.4	22.7	17.3	13.0	**	0.0
25	.2	0.0	**	**	**	17.6	22.5	22.8	17.2	12.9	**	.1
26	.2	0.0	**	**	**	17.8	22.3	22.6	17.5	12.9	**	.1
	.2	0.0	**	**	**	18.0	22.3	22.6	17.6	12.6	**	.2
27	.2	0.0	**	**	**	18.2	22.2	22.8	17.6	11.8	4.9	.5
28	.2	0.0	3.2	**	**	18.4	22.2	22.8	17.4	11.2	5.0	.6
29	.2		3.5	**	**	18.7	22.3	23.0	17.3	11.0	4.8	.2
30	.2		3.7	**	**		22.5	23.2		11.4		.2
31	.2		4.2		**							
MEAN	.2	.1	1.1	7	**	16.5	21.2	23.4	20.4	14.6	7.5	1.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								9	3				12
23.0								13	4				29
22.0							10	9	3				51
21.0							8		3				62
20.0							10		3				75
19.0							3		2				80
18.0						4			3				87
17.0						4			9	5			105
16.0						9				5			119
15.0						4				4			127
14.0						3				3			133
13.0										5			138
12.0										5			143
11.0										4	1		148
10.0											2		150
9.0											2		152
8.0				2							1		155
7.0				5							2		162
6.0				2							7		171
5.0				2							1		174
4.0			1	10							2	5	192
3.0			3	2								6	203
2.0			2									2	207
1.0			2									3	212
0.0	31	28	14									15	300
-1.0													300
-2.0													300

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	3.7	7.3	11.6	19.4	22.7	23.7	17.8	12.5	**
2	**	**	**	3.7	7.7	12.2	19.7	23.0	23.8	17.8	12.0	**
3	**	**	**	3.7	7.8	12.6	20.0	23.3	24.0	18.0	11.9	**
4	**	**	**	3.7	7.8	12.7	20.3	23.6	24.2	17.7	11.4	**
5	**	**	**	3.7	7.9	13.0	20.6	23.4	24.2	17.9	11.0	**
6	**	**	**	3.8	8.0	13.5	20.8	23.6	24.4	17.4	10.7	**
7	**	**	**	3.9	8.1	13.9	20.9	23.7	24.2	17.3	10.3	**
8	**	**	**	4.1	8.2	14.5	21.2	23.8	23.9	17.2	10.0	**
9	**	**	**	4.0	8.3	15.1	21.4	23.8	23.5	17.2	9.6	**
10	**	**	**	4.0	8.9	15.4	21.3	24.1	23.1	17.0	9.0	**
11	**	**	**	3.7	9.4	15.7	21.1	24.2	22.8	16.9	8.8	**
12	**	**	**	3.7	9.4	15.8	20.8	24.4	22.5	16.8	8.3	**
13	**	**	**	3.9	9.4	16.0	21.0	24.4	22.0	16.8	9.3	**
14	**	**	**	4.3	9.4	16.4	21.2	24.4	22.4	16.4	9.6	**
15	**	**	**	4.6	9.4	16.3	21.2	24.4	21.2	16.1	9.6	**
16	**	**	**	5.1	9.7	16.1	21.3	24.4	20.9	15.8	8.6	**
17	**	**	**	5.8	9.9	16.0	21.5	24.4	20.4	15.4	7.7	**
18	**	**	**	5.9	9.7	16.2	21.7	24.4	20.1	15.0	7.6	**
19	**	**	**	6.0	9.5	16.0	21.8	24.4	19.8	14.9	7.4	**
20	**	**	**	6.0	9.5	16.2	21.7	24.4	19.6	14.6	**	**
21	**		**	6.3	9.6	16.4	21.9	24.5	19.2	14.0	**	**
22	**		**	7.2	9.6	16.6	22.1	24.0	19.0	13.8	**	**
23	**	**	**	7.6	9.9	17.0	22.4	23.7	18.6	14.2	**	**
24	**	**	**	7.5	10.1	17.4	22.6	23.5	18.3	14.0	**	**
25	**	**	**	7.4	10.1	17.7	22.9	23.5	18.1	14.5	**	**
26	**		**	7.4	10.1	17.9	22.7	23.2	18.2	14.6	**	**
27	**	**	**	7.4	10.2	18.1	22.7	23.2	18.2	14.7	**	**
28	**	**	3.0	7.4	10.7	18.3	22.7	23.0	18.2	4.5	**	**
29	**		3.2	7.4	10.7	18.4	22.7	23.0	18.2	15.0	* *	**
30	**		3.5	7.2	10.9	18.8	22.7	23.3	18.2	14.7	**	**
31	**		3.6		11.3		22.8	23.5		14.6		**
MEAN	**	**	3.3	5.3	9.3	15.7	21.5	23.8	21.2	15.9	9.7	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								13	5				18
23.0								17	5				40
22.0							10	1	4				55
21.0							13		1				69
20.0							6		3				78
19.0							2		4				84
18.0						4			8	1			97
17.0						4				9			110
16.0						10				5			125
15.0						4				4			133
14.0						1				11			145
13.0						3				1			149
12.0						3					2		154
11.0					1	1					3		159
10.0					6						3		168
9.0					14						5		187
8.0					4						3		194
7.0				9	6						3		212
6.0				3									215
5.0				3									218
4.0				5									223
3.0			4	10									237
2.0													237
1.0													237
0.0													237
-1.0													237
-2.0													237

Station No. 1070, Temperatures, St. Lawrence River at Clayton, New York, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				2.6								
2	1.3	.3	.3	2.9	5.7	11.2	17.7	22.0	23.4	17.5	11.6	5.9
	1.0	.4	.4	2.1	5.9	10.7	17.6	22.2	23.6	**	11.5	5.7
4	.8	.4	.3	2.6	6.0	10.8	17.0	22.8	23.8	**	11.1	
5	.9	.4	.3	2.6	6.2	11.2	15.8	23.1	24.0	16.9	10.7	5.8
6	.9	.4	.3	2.0	6.7	11.2	16.2	23.2	24.1	16.9	10.4	5.9
7	.6	.5	.4	2.1	7.2	11.8	17.8	23.0	24.2	16.7	9.7	5.9
8	.4	.4	.4	3.0	7.2	12.5	17.5	23.0	23.6	16.5	9.4	5.6
9	.5	.4	.6	3.3	6.7	13.5	19.5	23.2	23.2	16.2	9.2	5.5
10	.6	.3	.6	3.0	6.6	13.5	19.4	23.5	22.7	15.9	8.7	5.2
11	.6	.3	.6	2.8	6.8	13.7	19.4	23.7	22.1	15.9	8.2	5.2
	.6	.3	.8	2.7	7.7	14.0	20.3	23.9	21.7	15.9	7.8	5.1
12	.6	.3	1.0	2.6	7.9	14.2	20.7	24.0	21.5	16.1	7.8	4.9
13	.4	.3	.9	2.5	8.0	14.4	20.5	24.0	21.4	16.1	7.7	4.9
14	.3	.4	.9	2.8	8.2	14.6	20.4	24.0	21.1	15.8	7.8	4.9
15	.3	.3	1.2	3.0	8.2	14.9	20.5	23.9	20.7	15.3	7.6	4.3
16	.3	.2	1.5	3.3	8.0	15.1	20.7	23.8	20.5	14.9	7.4	3.9
17	.3	.2	1.6	3.8	7.9	15.1	21.0	23.8	20.2	14.4	6.8	3.5
18	.3	.2	1.6	4.3	7.6	15.1	21.3	23.9	20.0	14.3	6.7	2.5
19	.4	.2	1.6	4.4	7.6	15.0	21.2	23.8	19.6	14.0	6.7	2.5
20	.4	.2	1.5	3.7	7.6	15.3	21.6	23.7	19.2	13.7	6.4	2.7
22	.4	.2	1.4	3.2	7.6	15.7	21.7	23.5	18.9	13.4	6.2	2.7
	.4	.2	1.3	3.0	8.0	15.4	21.5	23.2	18.7	13.2	6.3	2.3
23	.4	.2	1.3		8.2	15.3	21.2	22.9	18.4	13.2	6.3	2.3
24	.4	.3	1.4	3.	8.3	15.7	18.9	22.4	18.1	13.3	6.4	1.9
26	.4	.3	1.6	6.0	8.4	16.3	17.6	19.2	17.9	13.3	6.5	2.6
27	.4	.3	1.9	5.9	8.5	15.4	17.5	19.6	17.9	13.3	5.5	2.8
28	.4	.3	1.8	5.8	8.8	15.2	19.4	20.1	17.9	13.2	5.2	1.3
29	.4	.3	2.0	5.6	9.4	15.5	21.7	22.0	17.9	12.4	6.3	1.3
	.3		2.1	5.4	10.5	17.2	22.2	21.9	17.9	11.8	6.2	1.9
30	.3		2.1	5.7	11.0	17.8	22.3	22.9	17.7	11.9	6.2	1.7
31	.3		2.3		11.2		21.7	23.1		11.9		1.2
MEAN	.5	.3	1.2	3.9	7.9	14.2	19.7	22.9	20.7	14.6	7.9	3.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								3	3				6
23.0								17	5				28
22.0							2	1	2				5
21.0							9	1	1				11
20.0							6	1	1				8
19.0							4	2	2				8
18.0						2	1		4	1			77
17.0						1	7		6	7			93
16.0						12	1			7			132
15.0							1						126
14.0						5				4			125
13.0						3				1			140
12.0					2	4				1	3		142
11.0					1	2				3			154
10.0					1	2					2		159
9.0					10						3		163
8.0					10						6		175
7.0					8						14		190
6.0					4						14		211
5.0				1	2							11	232
4.0				8								1	240
3.0				4								2	248
2.0			4	16								7	270
1.0	2	28	14	11								7	293
0.0	2		14										363
-1.0	29		13										363
-2.0													363

Station 2000, Temperatures, St. Lawrence River at Cape Vincent, New York, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.3	.2	0.0	2.6	6.0	10.5	19.2	23.0	23.9	17.4	11.7	5.6
2	.5	.3	0.0	2.8	5.5	**	19.7	22.8	24.1	17.3	11.2	5.2
3	.8	.2	0.0	2.5	6.6	**	19.6	23.5	24.3	17.2	10.8	5.5
4	1.5	.2	0.0	2.6	7.7	**	20.4	23.5	24.7	17.3	10.3	5.7
5	.7	.3	.2	2.7	8.2	**	20.8	23.3	24.8	17.2	10.1	6.0
6	.3	.3	.2	2.8	6.9	**	20.2	23.3	24.5	16.6	9.2	5.7
7	.5	0.0	.3	3.0	7.1	**	20.0	23.5	23.5	16.4	9.1	5.2
8	.7	0.0	.5	3.0	6.3	**	20.6	23.7	22.9	16.3	8.6	5.1
9	.6	0.0	.6	3.2	6.6	**	21.3	24.0	22.3	16.2	8.2	4.4
10	.7	0.0	.7	2.8	7.2	**	21.8	24.2	22.1	16.2	7.7	4.6
11	.6	0.0	.8	2.2	7.9	**	21.7	24.3	21.7	16.0	7.6	4.8
12	.5	0.0	.8	2.0	8.6	**	21.4	24.4	21.3	16.3	7.5	4.5
13	.3	0.0	.6	2.4	9.2	**	21.1	24.2	21.2	16.2	7.5	4.4
14	.3	0.0	.7	3.0	8.7	**	21.1	24.3	20.9	15.3	7.9	4.0
15	.4	0.0	1.0	3.4	8.0	**	21.3	24.2	20.7	14.9	7.6	1.7
16	.4	0.0	1.1	3.8	7.7	**	21.5	24.1	20.5	14.5	6.7	.5
17	.4	.1	1.2	4.7	8.0	16.0	21.8	24.3	20.2	14.0	6.1	0.0
18	.4	.1	1.2	5.1	7.9	15.6	22.0	24.3	19.7	13.8	6.3	1.0
19	.4	0.0	1.0	5.3	7.8	15.8	22.4	24.2	19.5	13.6	6.3	2.8
20	.5	0.0	1.1	5.3	7.8	16.3	22.6	24.0	19.0	13.4	6.8	2.0
21	.5	.2	1.0	5.0	8.1	16.1	22.4	23.9	18.8	13.2	5.9	1.1
22	.4	.2	.9	5.5	8.0	16.1	22.1	23.3	18.5	13.5	6.4	1.3
23	.3	.2	1.0	6.5	8.5	16.6	22.0	23.0	18.4	13.5	6.6	.5
24	.4	.1	1.4	6.6	9.0	17.3	21.9	22.7	17.6	13.5	6.5	1.1
25	.4	.1	1.6	6.6	9.3	17.5	22.1	22.6	17.8	13.5	6.2	1.8
26	.4	.1	2.0	6.0	9.5	17.7	22.6	22.8	18.0	13.5	5.6	1.8
27	.4	.2	2.4	5.7	10.3	18.0	22.8	22.9	18.0	13.2	6.1	1.9
28	.3	.1	2.0	5.6	11.4	18.4	22.9	23.1	17.9	12.4	6.5	1.5
29	.3		2.4	5.6	11.6	18.7	22.7	23.2	17.8	11.8	6.3	1.1
30	.3		2.5	5.8	11.9	19.2	22.8	23.6	17.5	11.2	5.8	1.0
31	.4		2.8		11.3		22.8	23.8		11.9		1.1
MEAN	.5	.1	1.1	4.1	8.3	16.7	21.5	23.6	20.7	14.8	7.6	3.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								12	5				17
23.0								14	2				33
22.0							13	5	3				54
21.0							10		3				67
20.0							5		4				76
19.0						1	3		3				83
18.0						3			5				91
17.0						3			5	5			104
16.0						5				8			117
15.0						2				1			120
14.0										3			123
13.0										10			133
12.0										1			134
11.0					4					3	2		143
10.0					1	1					3		148
9.0					4						2		154
8.0					8						2		164
7.0					8						6		178
6.0				4	5						11	1	199
5.0				9	1						4	7	220
4.0				1								6	227
3.0				6									233
2.0			6	10								2	251
1.0	2		10									12	275
0.0	29		15									3	350
-1.0													350
-2.0													350

Station No. 2076, Temperatures, Lake Ontario at Olcott, New York, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	0.0	.1	7.4	9.4	13.9	21.9	19.1	**	**	**	5.7
2	**	0.0	.1	7.4	8.0	13.4	21.7	18.1	**	**		5.3
3	**	0.0	.1	6.8	9.1	10.5	21.8	21.2	**	**	**	5.3
4	**	0.0	.1	5.9	9.6	10.8	22.4	21.9	**	**	**	6.2
5	**	0.0	.1	5.7	9.7	14.7	21.4	22.7	**	**	**	6.7
6	**	0.0	.1	6.5	10.2	15.7	22.8	23.1		**	**	5.4
7	**	0.0	.1	8.5	10.3	16.5	23.8	23.2	**	**		4.7
8	**	0.0	**	8.0	7.5	17.0	23.4	22.8	**	**	**	5.0
9	**	0.0	**		7.4	18.3	23.9	23.7	**	**	**	4.5
10	**	0.0	**	5.5	9.3	18.1	23.1	23.8	**	**	**	3.9
11	**	0.0	**	4.7	10.8	18.7	22.6	24.2	**	**		2.7
12	**	0.0	**	4.7	11.8	18.6	21.4	24.1	**	**	4.2	2.3
13	**	0.0	**	4.3	11.5	19.7	21.9	24.2	**	**	5.2	2.8
14	**	0.0	**	5.3	11.5	19.2	22.2	23.7	**	**	7.6	3.1
15	0.0	0.0	**	6.6	10.7	17.5	22.3	22.1	**	**	7.8	1.7
16	0.0	0.0	**	6.7	10.7	16.0	22.1	**	**	**	6.2	.3
17	0.0	0.0	**	9.2	11.0	12.6	18.5	**	**	**	5.0	0.0
18	0.0	0.0	**	7.7	11.0	8.6	11.3	**	**	**	5.0	0.0
19	0.0	0.0	**	7.7	11.8	6.9	16.5	**	**	**	5.8	0.0
20	0.0	0.0	**	8.3	10.8	6.8	20.4	**	**	**	5.8	0.0
21	0.0	0.0	**	8.7	10.5	14.4	18.2	**	**	**	5.3	.4
22	0.0	0.0	**	9.8	12.6	17.7	14.7	**	**	**	6.0	0.0
23	0.0	0.0	**	11.3	11.3	18.6	11.2	**	**	**	6.5	0.0
24	0.0	0.0	**	10.8	11.3	18.8	6.9	**	**	**	6.4	0.0
25	0.0	0.0	**	9.8	7.9	18.0	10.4	**	**	**	6.7	0.0
26	0.0	0.0	**	9.2	7.4	17.4	20.3	**	**	**	6.4	1.2
27	0.0	0.0	**	8.6	7.9	18.6	21.1	**	**	**	6.7	1.0
28	0.0	0.0	**	8.2	7.9	19.2	21.4	**	**	**	6.8	.5
29	0.0		5.8	9.0	9.5	20.3	21.7	**	**	**	5.3	1.1
30	0.0		5.9	9.5	10.0	21.1	21.6	**	**	**	5.2	.1
31	0.0		6.9		12.0		20.7	**		**		.5
MEAN	0.0	0.0	1.9	1.5	10.0	15.9	19.8	22.5	**	**	6.0	2.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								3					3
23.0							4	5					12
22.0							6	3					21
21.0						1	10	2					34
20.0						1	3						38
19.0						3		1					42
18.0						8	2	1					53
17.0						4							57
16.0						2	1						60
15.0						1							61
14.0						2	1						64
13.0					2	2							66
12.0					8	1							69
11.0				1	8		2						80
10.0				1	6	2	1						92
9.0				6									104
8.0				4	1	1							110
7.0				5	6						2		123
6.0			1	6		2	1				8	2	143
5.0			2	4							7	5	161
4.0				3							2	2	168
3.0												2	170
2.0												3	173
1.0												4	177
0.0	17	28	7									13	242
-1.0													242
-2.0													242

Station No. 2092, Temperatures, Niagara River at Lewiston, New York, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.7	.1	.5	3.0	6.4	12.0	20.8	22.5	24.0	18.4	13.0	7.0
2	2.0	.5	.6	3.0	6.8	12.2	21.5	22.7	24.1	18.5	12.3	7.0
3	1.9	.5	.6	3.0	6.9	12.3	21.7	22.8	24.3	18.4	11.8	7.3
4	2.4	.5	.8	4.0	7.1	12.6	21.9	23.0	24.5	18.6	11.4	7.5
5	2.1	.7	.6	4.0	7.1	13.1	21.9	23.0	24.7	18.4	11.2	7.4
6	1.3	.8	.9	4.0	7.6	13.4	21.7	23.1	24.3	18.1	10.8	7.1
7	1.1	1.0	1.4	3.8	7.9	13.7	22.2	23.2	23.6	17.9	[illegible]	6.6
8	1.2	.7	2.0	4.3	8.0	14.4	22.8	23.3	23.1	18.0	[illegible]	6.6
9	1.2	.4	2.1	4.1	8.2	15.2	23.1	23.5	22.7	18.0	9.6	6.4
10	.3	.3	2.0	3.8	8.2	15.9	23.2	23.7	22.4	18.0	9.2	6.3
11	0.0	.1	2.1	3.8	9.3	16.4	22.8	23.8	22.2	17.9	[illegible]	5.7
12	0.0	.1	2.6	4.2	8.8	16.8	22.2	23.9	21.5	18.0	[illegible]	5.3
13	0.0	.1	2.9	4.3	8.7	17.1	21.8	23.9	21.2	17.5	[illegible]	5.2
14	.1	.2	2.8	4.5	9.3	17.5	22.0	23.9	21.1	16.8	8.1	5.1
15	.2	.2	3.2	4.6	8.7	17.8	22.5	23.9	21.1	16.2	8.1	4.4
16	.2	0.0	3.2	5.0	9.1	17.9	22.3	23.9	20.7	15.9	7.8	4.1
17	0.0	0.0	3.0	5.6	9.3	17.5	22.1	23.9	20.4	15.2	7.1	3.6
18	.1	.1	2.0	5.8	9.2	17.3	22.4	23.8	20.1	14.8	7.0	2.8
19	.2	.2	2.1	5.2	9.5	17.2	22.6	23.6	19.7	14.4	7.0	3.1
20	0.0	.4	2.0	6.1	9.9	17.8	22.4	23.6	19.0	14.6	7.0	3.2
21	.1	.4	2.0	6.3	9.9	18.0	22.3	23.3	18.8	14.6	7.1	3.0
22	.2	.3	1.7	6.6	10.2	18.3	22.4	22.8	18.7	14.7	7.5	2.5
23	.1	.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.5	2.5
24	.2	[illegible]	[illegible]	[illegible]	10.7	19.3	22.5	[illegible]	18.5	15.0	7.6	2.0
25	.4	.3	2.1	7.3	10.6	19.5	22.5	22.5	18.9	15.0	7.8	1.9
26	.7	.3	2.3	7.6	11.0	19.7	22.4	22.7	19.0	15.1	7.6	2.5
27	1.0	.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.8	7.7	2.0
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.3	[illegible]	[illegible]	8.2	2.2
29	.7		2.9	6.4	11.8	21.1	22.4	23.7	18.9	13.0	7.9	1.9
30	.1		3.0	6.6	11.9	20.6	22.4	23.9	18.5	13.1	7.4	1.8
31	0.0		2.8		11.9		22.5	24.0		13.2		1.5
MEAN	.7	.3	2.0	5.2	9.3	16.8	22.3	23.3	21.1	16.2	8.6	4.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								1	6				7
23.0							2	21	2				32
22.0							22	9	3				66
21.0						1	6		4				77
20.0						3	1		3				84
19.0						4			4				92
18.0						2			8	10			112
17.0						8				3			123
16.0						2				2			127
15.0						2				5			134
14.0						1				7	1		142
13.0						3				4	1		150
12.0						4							155
11.0											3		163
10.0					5						1		
9.0					8						2		169 173
8.0					6						7		192
7.0				4	4						15	6	221
6.0			7		3							4	235
5.0				4								2	243
4.0				9								4	254
3.0			4										
2.0	4		18	6								7	268 297
1.0	7	1	3									4	312
0.0	20	27	6										365
-1.0													365
-2.0													365

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		**	.9	4.4	7.9	14.4	21.8	**	**	18.3	13.1	7.1
2	**	**	.9	4.6	8.1	14.4	22.2	**	**	18.5	13.0	7.1
3	**	**	1.1	4.9	8.4	14.5	22.8	**	**	18.5	12.0	7.2
4	**	**	1.1	4.9	8.3	14.5	23.3	**	**	18.5	11.2	7.3
5		**	1.1	3.9	8.0	15.1	22.8	**	**	18.4	10.8	7.3
6	**	**	1.1	3.6	8.4	14.8	22.9		**	18.2	9.7	7.0
7	**	**	1.1	4.5	8.9	15.7	23.4	**	**	17.7	8.2	7.0
8	**	**	1.3	4.5	8.9	16.3	23.8	**	22.7	17.8	8.3	7.0
9	**	1.5	1.2	4.0	9.4	17.1	24.0	**	22.3	18.2	7.8	7.0
10		1.0	1.2	3.5	9.9	17.2	23.9	**	22.0	18.1	7.8	6.5
11	**	1.0	1.2	3.8	9.6	17.9	23.3		**	18.1	7.7	5.4
12	**	1.0	1.3	4.2	9.9	18.6	22.5	**	**	18.3	7.5	5.3
13	**	1.0	1.2	4.2	9.7	18.8	22.1	**	**	18.4	7.6	5.6
14		1.0	1.3	4.4	10.0	18.9	22.5	**	20.7	17.5	7.6	5.3
15	**	1.0	1.4	5.2	11.1	19.3	22.9	**	20.9	16.7	7.6	4.9
16	**	1.0	1.4	5.5	11.8	19.1	22.7	**	20.9	15.8	7.6	4.7
17	**	1.0	1.4	6.5	12.1	18.4	22.3	**	20.5	14.8	7.6	4.2
18	**	1.0	1.4	6.9	11.6	18.1	22.3	**	19.9	14.2	7.6	3.2
19	**	1.0	1.4	6.4	12.4	18.2	22.7	**	19.5	14.0	7.6	3.1
20	**	1.0	1.4	5.9	12.1	18.4	22.8	**	19.1	14.1	7.3	3.1
21	**	1.0	**	6.6	11.6	19.4	22.7	**	18.7	14.1	7.1	2.9
22	**	1.1	"	7.4	12.4	19.8	22.6	**	18.6	14.3	7.3	2.2
23	**	.7	"	8.5	12.7	20.5	22.3	**	18.7	14.8	7.2	2.2
24	**	.7	**	8.3	12.7	20.4	22.3	**	18.4	15.1	7.3	2.1
25	**	.7	**	8.2	12.8	20.2	22.7	**	18.5	15.2	7.7	1.5
26	**	.7	**	8.5	13.0	20.1	22.8	**	19.0	15.3	7.9	1.4
27	**	.7	**	7.8	13.1	20.9	23.0	**	19.0	15.3	7.8	1.4
28	**	.7	**	6.6	13.5	21.5	23.1	**	18.9	14.4	8.2	1.7
29	**		3.0	6.4	13.8	21.6	22.7	**	18.8	13.5	7.9	1.8
30	**		3.5	7.6	14.0	21.7	22.7	**	18.4	13.1	7.4	1.7
31	**		3.9		14.0		**	**		**		1.4
MEAN	**	.9	1.5	5.7	11.0	18.2	22.8	**	19.8	16.3	8.4	4.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0							1						1
23.0							7						8
22.0							21		3				32
21.0						3	1						36
20.0						5			4				45
19.0						4			5				54
18.0						7			8	11			80
17.0						3				3			86
16.0						1				1			88
15.0						2				5			95
14.0					2	5				8			113
13.0					4						2		119
12.0					7						1		126
11.0					4						1		131
10.0					1						1		133
9.0					5						1		139
8.0				4	7						3		153
7.0				3	1						21	9	187
6.0				6								1	194
5.0				3								4	201
4.0				10								3	214
3.0			3	4								3	224
2.0												4	228
1.0		14	18									7	267
0.0		6	2										275
-1.0													275
-2.0													275

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1		0.0			9.9							
2	****	0.0	.6	5.4	10.8	14.5	153	****	****	23.8	24.4	19.2	19.2	12.9	12.5	7.1
3			.5	5.9	[illegible]	[illegible]										6.4
4	****	.6	.4	6.0	10.7	9.7	16.4	16.7	****	****	24.4	24.4	19.3	19.5	11.9	11.6	6.5
		1.1	.3	5.6												7.0
5	**	.9	.3	6.3	8	9.9	16.7	**	**	25.7	19.3	10.3	7.3
6	**	.8	.3	6.6	10.6	16.7	**	**	26.0	19.0	9.0	6.5
7		.8	.8									9.4	6.2
8	****	.2	1.5	6.6	10.6	10.8	16.8	16.6	****	****	24.9	24.5	18.7	18.6	9.3	6.0
9		0.0														
10	****	0.0	1.4	6.1	5.7	11.7	11.8	16.4	16.4	****	****	24.1	24.1	19.1	18.9	7.9	5.7	5.3
11		0.0	1.5	5.1												4.8
12	****	0.0	2.3	5.6	12.2	13.0	16.4	16.6	****	****	23.7	22.9	19.1	19.2	5.8	4.6
14		.2	2.3	6.0											6.2	4.7
15	****	.2	4.2	6.3	13.0	13.0	16.2	16.3	****	****	21.9	21.7	18.9	18.7	7.7	3.4
		0.0													8.0	2.4
16	**	0.0	5.3	7.0	12.8	**	**	**	21.5	16.9	7.9	1.2
17	**	0.0	4.3	7.9	12.7	**	**	**	20.6	15.4	6.9	1.0
18	**	0.0	3.1	7.6	12.7	**	**	**	19.6	15.3	7.0	1.0
19																1.0
20	****	0.0	3.8	9.0	12.5	12.6	****	****	25.3	19.6	19.7	14.8	14.6	7.2	1.0
22	**	0.0	3.1	9.6	13.3	2	**	**	24.0	19.3	13.9	7.4	1.0
23	****	0.0	3.2	10.2	13.1	12.3	****	****	23.2	23.1	18.9	19.1	14.3	14.6	7.7	1.0
																1.0
24	**	0.0	3.7	10.5	13.2	**	**	23.0	19.2	14.9	7.9	1.0
25	**	0.0	3.6	10.8	13.3	**	**	23.0	19.1	14.9	8.1	1.1
26	**	0.0	3.8	10.8	13.8	**	**	23.2	19.0	15.0	8.2	1.2
27	**	.	4.3	10.4	13.6	**	**	24.3	19.5	14.9	8.3	1.3
28		0.0	3.9	9.4							8.3	1.4
29	****	0.0	4.1	9.5	13.7	13.9	****	****	25.3	25.7	20.2	20.0	14.7	14.1	7.6	1.5
30	**		4.6	9.6	14.4	**	**	25.2	19.6	13.2	7.3	1.2
31	**		4.6		14.5		**	23.6		12.7		1.0
MEAN	**	.2	2.6	7.6	12.4	16.3	**	24.1	21.8	16.8	8.3	3.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													
25.0								4	1				5
24.0								2	7				15
23.0								6	2				23
22.0									2				25
21.0									3				28
20.0									3				31
19.0									10	10			51
18.0									1	5			57
17.0										1			57
16.0						13				3			71
15.0						1							75
14.0					2	1				9			87
13.0					12					2	2		101
12.0					7					1	2		111
11.0					2						1		115
10.0				5	5						3		126
9.0				5	3						5		137
8.0				2							11		144
7.0				3								3	161
6.0				8							5	2	179
5.0			1	7							1	3	190
4.0			6										199
3.0			9									1	209
2.0			4									1	214
1.0		1	3									16	234
0.0		27	8										269
-1.0													269
-2.0													269

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	**	21.2	23.3	17.7	11.5	6.1
2	**	**	**	**	**	**	**	21.3	**	18.2	11.2	6.5
3	**		**	**	**	**	**	21.7	**	18.2	11.2	7.1
4	**	**	**	**	**	**	**	22.4	**	18.1	11.0	7.7
5	**	**	**	**	**	**	**	22.1	24.6	17.8	10.5	8.0
6	**	**	**	**	**	**	**	21.9	23.7	17.6	8.8	7.0
7	**	**	**		**	**	**	22.2	22.8	17.6	8.7	6.2
8	**	**	**	**	**	**	**	22.3	22.2	17.6	8.5	6.0
9	**	**	**	**	**	**	**	22.5	22.0	17.5	7.6	6.4
10	**	**	**	**	**	**	**	22.6	21.5	17.7	6.6	6.1
11	**		**		**	**	**	22.5	21.4	17.8	5.4	5.3
12	**	**	**	**	**	**	**	22.7	20.6	17.7	6.9	5.0
13	**	**	**	**	**	**	**	22.9	20.2	17.6	8.0	4.7
14	**	**	**	**	**	**	**	23.1	19.8	16.3	9.2	2.9
15	**	**	**	**	**	**	**	22.7	19.5	15.5	9.0	1.7
16	**	**	**	**	**	**	**	21.7	18.7	14.6	7.0	.9
17	**	**	**	**	**	**	**	21.8	17.9	13.7	6.7	.6
18	**	**	**	**		**	**	22.4	17.5	13.1	7.1	.5
19	**	**	**	**	**	**	**	23.0	17.3	12.6	8.2	.6
20	**	**	**	**	**	**	**	22.9	16.8	12.9	8.4	.8
21	**	**	**	**	**	**	**	21.7	16.6	13.2	8.6	0.0
22	**	**	**	**		**	**	20.8	17.6	13.7	8.5	0.0
23	**	**	**	**	**	**	**	21.1	17.8	13.6	8.6	0.0
24	**	**	**	**	**	**	**	21.4	17.8	13.8	8.6	.8
25	**	**	**	**	**	**	21.6	21.6	18.0	14.1	8.2	1.5
26	**	**	**	**		**	21.2	21.9	18.8	14.3	8.0	1.6
27	**	**	**	**	**	**	20.5	22.5	18.9	13.8	8.5	1.7
28	**	**	**	**	**	**	20.3	22.9	18.6	13.0	8.3	1.8
29	**		**	**	**	**	20.9	23.3	18.6	12.6	7.0	2.0
30	**		**	**		**	20.9	23.3	17.9	12.0	6.5	1.6
31	**		**		**		20.8	23.1		11.7		1.2
MEAN	**	**	**	**	**	**	20.9	22.2	19.6	15.3	8.4	3.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0									1				0
24.0									2				1
23.0								14					8
22.0								11	3				25
							2		2				40
20.0							5	1	3				48
19.0									6	3			50
18.0										10			59
17.0									7				75
													79
15.0									2	1			80
14.0													83
													91
12.0										4			95
11.0										1	4		100
10.0											2		101
9.0													103
8.0												1	
7.0											14	6	119125
6.0											5	2	136
5.0													138
4.0													
3.0												1	139139
2.0												2	141
1.0												7	148
0.0												9	157
-1.0													157
-2.0													157

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.3	.2	.9	5.6	8.7	9.6	11.5	18.8	22.0	**	10.4	**
2	.4		1.8	4.7	8.8	10.4	14.9	19.8	21.3	**	9.2	**
3	.6	.4	1.7	4.3	**	10.8	11.7	20.7	21.4	**	9.2	**
4		.3	[illegible]	4.8	**	9.3	14.3	21.2	21.0	**		
5	1.2	.1	1.4	4.0	**	8.8	16.4	21.0	20.4	**	9.2	**
7	1.2	.1	1.4.4	4.7	**	8.0	17.6	20.2	20.4	**	9.0	**
8	.4	.8	1.8.	5.6		8.6	13.9	20.2	20.4	**	9.0	**
	1.0	.3		5.1	**	8.7	17.6	**	20.3	**	9.0	**
9	1.2	.7	1.2	5.3	**	9.4	19.2	9.7	20.7	**	9.0	**
10	1.2	1.4	1.3	4.0	**	11.1	19.3	19.2	20.7	**	9.0	**
11	1.2	1.4	1.1	3.9	**	9.7	**	20.2	20.6	**	9.0	**
12	1.6	1.54	1.95	4.1	**	13.3	**	21.5	19.5	**	9.8	**
13	.8	1.6.	2.1.	3.9				22.5	19.4	**	9.7	2.2
14				4.5	**	15.9 16.6	**	23.3	19.7	**		1.2
15	.5	.8	2.8	5.1				23.2	19.3	**	9.6	.4
16	.5	1.0	3.1	6.5	**	12.0	**	22.7	18.3	**	**	.4
17	1.0	1.3	2.0	6.2	**	13.8	**	23.1	16.8	**	**	.6
18	1.7	1.5	.4	6.8	**	16.9	**	23.1	16.3	**	**	.5
19	1.8	1.4	.7	6.9	**	7.3	**	23.7	16.2	**	**	.5
20	1.7	1.4	1.6	7.6							**	.5
21	.3	1.3	1.8	8.0	**	6.6	**	21.9 21.3	16.1 15.5	**	**	.5
22	.3	1.2		8.8	**	7.7	**	**	15.4	**	**	.6
23	.6	1.8	2.7 3.6	8.3	11.1	10.3	**	20.1	**	**	**	.5
24	.8	1.6	3.4	9.7	12.0	11.5	**	20.8	**	**	**	.5
25	.7	1.4	3.5	9.2	[illegible]	[illegible]	**	21.4	**	**	**	.4
26	.9	1.5	4.2	9.4	10.2	12.0		21.5	**	**	**	.3
27	.9	1.5	4.2	9.2	10.0	8.7	**	21.1	**	**	**	.5
28	.9	1.6	4.4	[illegible]	[illegible]	[illegible]	**	21.4	**	**	**	.5
29	.4		4.0	8.8	9.2	5.9	**	22.2	**	**	**	.6
30	.4		4.4	9.0	9.5	6.2	**	22.6	**	**	**	.5
31	.4		5.0		8.9		**	23.4		**		.3
MEAN	.8	1.1	2.4	6.4	10.0	10.3	15.6	21.1	19.2	**	9.3	.6

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0								6					6
22.0								4	1				11
21.0								9	3				23
20.0								6	7				36
19.0							2	2	4				44
18.0								1	1				46
17.0							2						48
16.0						1	1		4				54
15.0						1			2				57
14.0							2						59
13.0						5	1						65
12.0					1	2							68
11.0					2	2	2						74
10.0					3	3					1		81
9.0				6	2	4		1			14		106
8.0				1	3	6							121
7.0													123
6.0			1	4		2							131
5.0			5	5		1							138
4.0			4	8									151
3.0			4	2									157
2.0			4									1	162
1.0	11	18	3									1	205
-1.0	20	10										17	255
-2.0													256
													255

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.2	.6	.4	1.5	6.9	9.2	16.1	17.9	**	13.4	9.6	4.3
2	.3	.6	.4	1.4	6.4	9.7	16.5	17.0	**	12.4	9.1	4.0
3	0.0	.6	.4	1.5	6.0	9.0	16.3	17.5	**	12.9	8.3	4.1
4	0.0	.6	.4	1.8	6.2	8.9	16.2	18.4	**	13.4	8.0	4.2
5	0.0	.6	.5	1.9	6.5	9.5	16.6	17.8	**	12.8	7.5	4.3
6	0.0	.6	.5	2.5	6.7	10.1	16.9	17.9	20.7	12.9	5.3	4.1
7	0.0	.6	.5	2.8	6.9	10.8	17.2	18.7	20.0	12.7	5.6	3.6
8	0.0	.6	.6	2.5	6.6	11.8	17.4	18.9	19.6	13.2	5.7	3.9
9	0.0	.6	.7	2.3	6.3	11.0	18.2	18.8	19.6	11.8	6.9	3.8
10	0.0	.6	.6	1.0	6.9	**	18.9	19.2	18.2	11.9	6.0	3.6
11	0.0	.6	.6	1.5	7.2	**	18.7	20.0	17.4	12.5	5.8	2.8
12	0.0	.6	.7	2.0	7.4	**	18.7	19.8	16.6	12.5	5.8	2.8
13	0.0	.6	.9	2.2	7.3	**	17.1	20.3	16.0	12.2	5.1	3.2
14	0.0	.6	.8	2.6	7.2	14.3	17.9	20.4	17.1	12.2	6.0	1.8
15	0.0	.6	.7	3.2	7.4	14.3	18.1	20.6	16.4	12.0	5.6	.2
16	.1	.6	.6	4.1	7.3	14.6	18.6	20.9	15.4	11.5	5.8	.1
17	.3	.6	.7	4.2	7.0	12.6	18.5	20.3	14.5	11.5	7.0	.4
18	.3	.5	.5	4.6	7.9	10.8	18.9	**	13.2	11.8	7.8	.6
19	.3	.4	.5	5.1	8.0	11.4	19.1	**	12.7	11.3	5.1	1.4
20	.2	.4	.5	5.6	7.6	11.3	19.5	**	11.7	10.9	5.9	1.2
21	.3	.4	.6	5.4	8.4	12.4	19.0	**	13.1	10.9	5.8	.6
22	0.0	.4	1.1	5.7	6.3	13.4	19.5	**	10.5	10.9	5.8	.5
23	0.0	.4	1.2	5.9	6.2	14.1	18.7	**	11.6	11.3	5.4	.4
24	.2	.4	1.3	5.7	9.5	14.8	16.0	19.8	12.0	11.5	5.2	.1
25	.3	.4	1.3	6.1	9.0	15.4	17.8	**	10.7	11.2	5.2	.2
26	.4	.4	1.3	6.7	8.7	14.1	18.1	19.6	11.2	11.2	4.8	.2
27	.4	.4	1.6	6.9	9.0	14.9	18.3	19.6	12.6	10.4	4.3	.5
28	.4	.4	1.4	6.7	9.0	16.1	18.5	19.6	14.3	8.7	4.2	.4
29	0.0		1.5	7.1	8.6	15.8	18.7	19.8	14.4	9.0	4.5	.5
30	0.0		1.5	7.0	8.7	15.9	19.1	21.0	14.4	9.8	4.5	.2
31	0.0		1.7		8.9		19.1	**		9.9		.3
MEAN	.1	.5	.8	3.9	7.6	12.5	18.0	19.3	15.0	11.6	5.7	1.9

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
25.0													0
24.0													0
23.0													0
22.0													0
21.0								1					1
20.0								6	2				9
19.0							6	7	2				24
18.0							13	4	1				42
17.0						1	5	5	2				54
16.0						3	7		3				65
15.0									1				69
14.0						1			4				80
13.0						2			2	3			85
12.0									3	10			101
11.0						4			3	10			118
10.0					5	3			2	4			127
9.0					7	4				3	2		141
8.0				2		1				1	2		152
7.0				4	9						1		164
6.0				[illegible]	10						2		180
5.0				6							13		199
4.0				3							10	6	218
3.0				1								5	224
2.0				7								6	233
1.0			10	7								3	253
0.0	31	28	21									15	348
-1.0													348
-2.0													

Station No. 7056, Temperatures, Lake Michigan at Oak Creek, Wisconsin, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2										**	9.5	6.0
										**	9.6	7.0
4										**	9.3	6.4
5										**	8.2	6.6
										**	7.2	6.6
7										**	6.9	5.4
8										**	7.4	4.8
9										**	7.0	5.4
10										**	5.7	4.9
										**	5.8	3.7
11										**	6.4	3.3
13										**	6.5	4.0
14										**	7.0	2.7
										**	7.0	2.4
16										**	6.9	4.5
17										**	6.1	1.1
										**	6.7	.8
18										**	6.9	1.5
20										**	6.8	1.5
21										**	8.3	.5
										**	7.8	.4
22										**	6.8	1.4
23										**	6.6	.8
24										**	6.9	3.7
25										10.0	6.6	2.8
26										10.1	7.4	1.5
27										9.8	7.5	1.7
28										10.3	6.8	2.4
29										9.8	5.9	1.8
30										9.2	6.3	.9
31										9.5		.4
MEAN										9.8	7.1	3.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0													0
11.0													0
10.0										3			3
9.0										4	3		10
8.0											2		12
7.0											8	1	21
6.0											14	4	39
5.0											3	2	44
4.0												4	48
3.0												3	51
2.0												4	55
1.0												7	62
0.0												6	68
-1.0													68
-2.0													68

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.6	.4	.4	1.7	**	**	**	**	**	14.5	10.8	5.1
2	1.6	.5	.4	**	**	**	**	**	**	14.5	10.3	3.3
3	1.0	.7	.4		**		**	**	**	14.7	9.4	2.8
4	1.3	.9	.4	**	**	**	**	**	**	14.4	9.1	4.8
5	1.4	.7	.4	**	**	**	**	**	**	13.8	8.5	5.1
6	.8	.7	.4	**	**	**	**	**	**	13.9	7.7	5.0
7	.3	.7	.4	**	**	**	**		**	14.0	8.5	4.9
8	.3	.6	.4	**	**	**	**	**	**	13.9	7.9	3.8
9	1.1	.6	.4	**	**	**	**	**	**	13.8	6.9	1.9
10	1.1	.6	1.1	**	**	**	**	**	**	13.8	7.5	3.5
11	1.1	.6	.8	**	**		**		17.0	14.8	7.0	3.6
12	1.1	.9	1.1	**	**	**	**	**	16.9	14.8	6.8	4.0
13	1.1	1.0	1.0	**	**	**	**	**	17.0	13.4	7.3	3.8
14	.6	.4	.7	**	**	**	**	**	16.9	12.6	7.7	3.5
15	.6	.4	.7		**		**		16.5	12.3	7.0	3.4
16	.6	.4	1.0	**	**	**	**	**	16.0	11.9	6.4	3.1
17	.7	.4	.8	**	**	**	**	**	16.0	10.8	6.5	3.2
18	.9	.4	.8	**	**	**	**	**	15.8	11.7	6.5	3.2
19	1.0	.6	1.0		**		**		15.4	11.3	6.6	2.4
20	.8	.7	1.1	**	**	**	**	**	15.0	11.5	7.2	1.5
21	.8	.5	1.3	**	**	**	**	**	15.2	11.5	5.8	2.1
22	.9	.6	1.7	**	**	**	**	**	14.8	11.6	4.9	1.8
23	.7	.4	1.8		**		**	**	14.6	11.6	6.2	1.5
24	.5	.4	1.8	**	**	**	**	**	14.5	11.8	6.7	.7
25	.7	.4	1.7	**	**	**	**	**	13.8	12.1	7.6	.7
26	.9	.4	1.9	**	**	**	**	**	14.3	11.7	6.3	.7
27	.9	.4	1.5	**	**	**	**		14.2	11.1	5.4	1.2
28	.5	.4	1.9	**	**	**	**	**	14.5	10.7	6.0	1.5
29	.4		1.8	**	**	**	**	**	14.5	10.8	6.3	2.2
30	.3		1.7	**	**	**	**	**	14.6	11.1	5.8	2.3
31	.4		1.9		**		**			10.8		1.3
MEAN	.8	.6	1.1	1.7	**	**	**	**	15.4	12.6	7.2	2.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0									2				2
16.0									5				7
15.0									4				11
14.0									8	7			26
13.0									1	6			33
12.0										3			36
11.0										11			47
10.0										4	2		53
9.0											2		55
8.0											2		57
7.0											9		66
6.0											11		77
5.0											3	3	83
4.0											1	3	87
3.0												10	97
2.0												7	102
1.0	11	1	17	1								3	139
0.0	20	27	14										203
-1.0													203
-2.0													203

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan 1973

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.8	.5	1.1	4.1	7.5	6.9	14.1	7.5	20.5	13.9	7.8	3.5
2	.8	.7	1.1	3.9	6.0	6.7	13.7	10.1	20.8	13.7	7.1	3.3
3	.7	.6	1.1	3.6	4.9	7.0	15.4	12.2	20.9	13.4	6.5	3.3
4	.8	.7	1.1	3.6	4.8					13.1	5.6	3.0
5	.8	1.0	1.1	3.3	5.1	7.7 8.7	14.8 14.8	12.3 10.0	20.2 21.3	12.8	5.3	3.0
6	.8	1.5	1.1	3.5	5.3	9.8	15.0	11.3	19.0	12.7	4.2	2.8
7	.7	1.3	1.1	3.9	5.5	9.5	16.0	12.8	18.3	12.9	3.7	2.2
8	.7	1.2	1.1	3.7	5.5	9.8	16.8	14.7	18.7	13.3	4.7	2.4
9	.7	1.3	1.1	3.3	5.9	10.9	16.2	16.5	18.8	12.3	2.9	2.5
10	.7	1.3	1.1	2.9	6.7	11.1	16.4	17.5	18.8	12.4	2.2	1.8
11	.5	1.0	1.1	3.0	6.9	11.2	15.1	17.6	17.7	13.0	**	1.3
12	.5	1.0	1.1	3.4	7.0	12.3	14.6	18.0	17.2	12.1	4.5	.9
13	.5	1.0	1.1	4.1	6.8						4.1	.3
14	.5	1.0	1.1	4.6	6.7	12.6 12.8	16.9 16.1	17.6 17.8	16.8 16.8	11.9 12.0	4.5	.2
15	.5	1.0	1.1	6.2	6.7	12.7	16.3	17.6	15.9	11.9	3.9	.2
16	.5	1.1	1.1	6.1	**	17.8	16.3	17.2	15.5	11.2	4.0	
17	.5	1.1	1.1	5.0	7.5	7.6	15.4	18.0	15.3	9.9	4.4	1.3
18	.5	1.1	1.1	5.3	6.5		15.9	17.5	15.2	9.6	5.0	1.3
19	.5	1.1	1.1	5.9	7.8	7.7	16.3	16.6	15.1	9.9	4.4	1.4
20	.5	1.1	1.0	6.6	7.2	10.0	17.0	17.7	14.1		4.9	.2
21	.5	1.1	1.1	7.0	7.5							
22	.5	1.1	1.7	8.0	7.4	10.7 10.8	15.8 15.9	18.6 18.5	14.0 14.3	11.0 10.4	5.9 5.1	1.1
23	.5	1.1	2.2	7.5	7.2	11.0	10.6	18.4	13.1	11.6	5.8	0.0
24	.5	1.1	2.3	7.5	7.1	12.7	8.1	18.3	12.9	10.8	5.1	1.4
25	.6	1.1	2.3	7.6	7.3	11.8	14.6	17.7	11.9	10.6	3.9	2.3
26	.7	1.1	2.4	7.6	7.4	12.4	18.8	18.1	13.0	10.6	3.9	2.0
27	.7	1.1	2.4	7.8	7.9	13.4	16.8	19.3	13.2	10.0	3.7	1.8
28	.7	1.1	3.0	7.9	7.5	12.1	10.9	20.2	13.1	8.8	3.8	1.7
29	.7		3.7	8.0	7.4	11.3	13.0	20.4	13.6	7.3	3.4	1.0
30	.7		3.8	8.1	7.5	12.3	12.8	20.4	13.3	6.7	3.5	0.0
31	.7		3.9		7.9		8.8	20.5		6.8		0.0
MEAN	.6	1.0	1.6	5.4	6.7	10.4	14.8	16.5	16.3	11.2	4.7	1.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0									1				1
20.0								4	4				9
19.0													11
18.0							1	1	1				
17.0							1	97	42				23 35
16.0													49
15.0							17	2	8				61
14.0						1	5	1	3				70
13.0						8	2		6	6			105 85
12.0							1	3	1	7			
11.0						5		1	1	5			117
10.0						5	2	2		4			131
9.0						3							
8.0				3		1	2						138 145
7.0				7	16	5				1	2		177
6.0				3	7	2		1		12	2		193
5.0				3	5						6		207
4.0				3	2						9		
3.0			4	10							8	5	221 249
2.0			5	1							2	6	262
1.0		24	22									10	
0.0		4										10	318 363
-1.0													363
-2.0													363

Station No. 1029, Temperatures, St. Lawrence River at Ogdensburg, New York (B), 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.0	-.2	.1	.4	7.6	11.8	**	**	**	**	9.7	1.8
2	0.0	-.1	0.0	.9	7.4	12.3	**	**	**	**	**	.8
3	0.0	0.0	0.0	1.2	7.2	12.8	**	**	**	**	**	1.3
4	0.0	0.0	0.0	1.8	7.2	13.2	**	**	**	**	9.8	1.2
5	-.2	.1	0.0	2.4	7.6	13.6	**	**	**	**	9.5	1.9
6	-.3	.1	.1	2.5	7.2	14.1	**	**	**	**	9.5	2.0
7	-.2	0.0	.2	2.4	6.6	14.2	**	**	**	**	9.4	2.4
8	-.1	.1	.2	1.8	6.7	14.4	**	**	**	**	9.2	2.7
9	-.1	0.0	.1	1.0	6.9	14.6	**	**	**	**	8.9	2.6
10	-.1	0.0	0.0	.8	6.7	14.7	**	**	**	**	8.5	2.0
11	-.1	.1	0.0	1.5	6.9	15.0	**	**	**	**	8.4	2.0
12	-.1	.1	.1	2.6	7.3	14.9	**	**	**	**	8.4	2.2
13	0.0	.3	.2	3.0	7.4	15.1	**	**	**	**	8.4	2.2
14	0.0	0.0	.2	3.7	7.5	15.5	**	**	**	**	8.0	1.6
15	-.2	0.0	.3	4.2	8.2	15.5	**	**	**	**	7.3	.9
16	-.2	.3	.4	4.4	8.5	15.4	**	**	**	**	6.5	.9
17	-.1	.2	.4	4.8	8.7	15.6	**	**	**	**	6.3	.9
18	-.1	0.0	0.0	5.1	9.6	15.7	**	**	**	**	6.3	1.2
19	-.1	.2	.1	5.2	10.2	15.7	**	**	**	**	6.3	1.4
20	-.1	0.0	.1	5.3	9.7	9	**	**	**	**	5.2	1.5
21	-.1	-.1	.1	5.4	9.5	16.2	**	**	**	**	5.3	1.4
22	-.2	-.1	-.1	5.7	9.6	15.7	**	**	**	9.9	4.4	1.3
23	-.2	-.1	.2	5.7	9.8	**	**	**	**	9.8	4.2	1.7
24	-.2	-.1	.3	5.7	9.9	16.3	**	**	**	10.1	4.4	1.8
25	-.2	0.0	.1	6.0	10.3	16.2	**	**	**	9.9	4.1	1.0
26	-.2	0.0	.2	6.3	10.4	16.4	**	**	**	10.1	2.6	.8
27	-.1	0.0	0.0	6.5	10.6	16.2	**	**	**	**	2.2	1.1
28	-.1	.1	-.1	6.7	11.0	16.0	**	**	**	**	2.3	1.2
29	-.1		.2	6.8	11.1	15.9	**	**	**	10.3	1.8	1.4
30	-.1		.2	7.3	11.3	15.2	**	**	**	10.5	2.2	1.4
31	0.0		.1		11.2		**	**		10.0		1.4
MEAN	-.1	0.0	.1	3.9	8.7	15.0	**	**	**	10.1	6.4	1.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0						6							6
15.0						12							18
14.0						6							24
13.0						2							26
12.0						2							28
11.0					4	1							33
10.0					4					5			42
9.0					6					3	6		57
8.0					3						6		66
7.0				1	9						1		77
6.0				5	5						5		92
5.0				7							1		100
4.0				3							4		107
3.0				2									109
2.0				4							4	8	125
1.0				5							1	18	149
0.0	7	22	29	3								5	215
-1.0	24	6	2										247
-2.0													247

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	1.3	1.1	1.5	7.0	11.9	15.6	20.8	21.8	16.1	11.1	5.7
2	1.0	1.3	1.2	1.7	6.9	12.5	15.6	20.8	21.7	15.6	11.1	5.0
3	1.0	1.3	1.1	1.8	7.0	12.9	15.7	20.9	20.8	15.2	11.1	5.0
4	1.1	1.3	1.2	2.3	7.0	13.3	16.1	21.0	20.8	14.9	11.1	5.0
5	1.2	1.3	1.3	2.8	7.1	13.8	16.8	21.0	21.1	14.8	11.1	4.6
6	1.2	1.3	1.3	2.7	7.1	14.2	17.4	21.1	21.1	15.0	11.1	4.5
7	1.2	1.3	1.7	2.5	7.0	14.5	17.8	21.1	20.8	14.9	11.0	4.6
8	1.1	1.4	1.4	2.5	6.9	14.5	18.2	21.3	20.6	14.7	10.9	4.3
9	1.1	1.3	1.5	2.2	7.0	14.8	18.9	21.3	20.1	14.6	10.7	4.5
10	1.1	1.4	1.3	2.3	7.0	15.1	19.3	21.3	20.1	14.4	10.5	4.5
11	1.1	1.2	1.2	2.7	7.1	15.3	19.3	21.6	19.8	14.1	10.3	4.5
12	1.1	1.1	1.2	3.0	7.4	15.4	19.5	21.7	20.0	14.0	10.0	4.6
13	1.4	1.1	1.1	3.1	7.8	15.6	19.8	21.8	20.1	13.6	9.9	4.5
14	1.3	1.2	1.0	3.4	7.8	15.7	19.9	21.8	19.9	13.5	9.7	4.6
15	1.3	1.1	1.1	3.8	8.6	15.8	20.2	21.7	19.7	13.8	9.1	4.4
16	1.3	1.0	1.1	3.6	8.6	15.8	20.1	21.8	19.3	13.7	8.8	4.0
17	1.4	1.0	1.1	4.1	8.8	15.9	19.9	21.8	19.0	13.3	8.7	4.0
18	1.4	1.0	1.1	4.2	9.2	16.0	19.8	21.8	18.7	12.6	8.7	4.0
19	1.4	1.0	1.3	4.2	9.5	16.0	19.7	21.7	18.6	12.4	8.7	3.8
20	1.4	1.0	1.3	4.8	9.5	16.3	19.5	21.6	18.6	12.0	9.0	3.8
21	1.4	1.0	1.1	5.1	9.5	16.5	19.7	21.7	18.5	11.3	8.2	3.9
22	1.1	1.0	1.0	5.8	9.8	16.6	19.8	21.9	18.0	11.1	7.8	3.9
23	.8	1.1	1.2	5.8	10.0	16.4	20.2	22.1	17.6	11.1	7.5	3.9
24	.8	1.1	1.4	5.3		16.4	20.0	22.2	17.5	11.1	7.5	3.9
25	.8	1.1	1.2	5.7	10.7	16.4	19.9	22.3	17.0	11.1	7.5	3.9
26	.8	1.1	1.2	5.5	10.7	16.2	19.9	22.5	16.7	11.1	7.1	3.3
27	1.0	1	1.2	6.1	10.9	16.1	19.9	22.7	16.8	11.1	6.8	3.1
28	1.3	1	1.3	6.9	11.3	16.0	20.2	22.3	17.0	11.1	6.7	3.1
29	1.2		1.4	7.0	11.4	16.2	20.5	22.0	16.9	11.1	6.4	3.2
30	1.2		1.2	6.9	11.3	15.9	20.6	22.0	16.3	11.1		3.0
31	1.4		1.2		11.4		20.7	22.0		11.1		3.0
MEAN	1.2	1.2	1.2	4.0	8.8	15.3	19.0	21.7	19.2	13.1	9.1	4.1

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0								9					9
21.0								19	4				32
20.0							8	3	8				51
19.0							12		5				70
18.0							2		5				77
17.0									4				83
16.0						12	2		4	1			102
15.0						9	3			3			117
14.0						4				8			129
13.0						2							135
12.0						2				3			141
11.0					4	1				11			154
10.0					5								174
9.0					5								183
8.0					3								191
7.0				1	12						5		209
6.0				3	2						4		218
5.0				6								4	228
4.0				4								14	246
3.0												13	254
2.0													272
1.0	26	28	31	3									360
0.0	4												364
-1.0													364
-2.0													364

Station No. 1070, Temperatures, St. Lawrence River at Clayton, New York, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.2	.1	.2	.5	**	11.5	14.4	20.4	21.4	16.0	10.9	5.2
2	1.1	.2	.2	.7	**	11.9	15.1	20.4	21.3	15.5	10.7	5.0
3	1.0	.2	.2	1.1	**	12.1	15.6	20.3	20.7	15.0	10.5	4.9
4	.9	.2	.3	1.4	**	11.9	15.9	20.2	19.4	14.5	10.6	4.5
5	.8	.2	.4	1.6	**	11.9	15.9	20.3	16.1	14.4	10.2	4.5
6	.7	.2	.4	1.7	**	12.2	16.7	20.4	14.7	14.6	10.2	4.9
7	.7	.2	.6	1.5	**	12.4	17.4	20.6	14.8	14.5	10.1	4.9
8	.4	.2	.5	1.5	**	13.3	17.5	20.8	14.5	14.4	10.0	5.0
9	.4	.2	.4	1.2	**	13.6	18.1	20.8	18.2	14.2	9.8	4.8
10	.5	.2	.4	1.3	**	13.6	18.3	20.8	17.6	13.9	9.7	4.3
11	.5	.2	.5	1.4	**	14.1	17.8	21.0	15.3	13.7	9.4	3.9
12	.4	.2	.4	1.6	**	14.6	17.4	21.1	18.8	13.8	9.4	4.0
13	.3	.2	.3	1.9	**	14.4	18.2	21.1	19.6	13.4	9.4	3.9
14	.2	.2	.4	2.2	**	14.3	18.3	21.1	19.5	13.3	9.0	3.9
15	.4	.2	.4	2.3	**	13.9	19.6	21.0	19.1	13.3	8.7	3.7
16	.4	.2	.6	2.4	**	14.3	18.5	19.5	18.6	13.1	8.0	3.8
17	.4	.3	.5	2.7	**	14.9	18.6	17.9	19.4	12.9	7.8	3.8
18	.4	.3	.5	3.1	**	14.9	19.0	18.9	18.2	12.5	7.8	3.7
20	.2	.3	.5	3.0	**	15.0	19.4	20.1	18.0	12.3	7.8	3.6
21	.1	.2	.5	3.1	**	15.3	19.6	18.7	18.2	11.9	7.9	3.7
	.1	.2	.4	3.2	**	14.9	19.7	18.7	18.1	11.4	8.0	3.8
22	.2	.3	.2	3.4	**	14.6	19.6	20.0	17.9	11.1	7.7	3.5
23	.2	.3	.4	3.5	**	14.6	19.5	21.3	17.6	11.2	7.4	3.5
24	.2	.4	.5	3.5	**	14.2	19.8	22.1	17.2	11.1	7.4	3.4
25	.2	.4	.3	3.5	**	14.0	19.7	21.8	16.8	10.9	7.3	3.3
26	.2	.4	.4	3.8		13.6	19.8	21.3	16.5	10.8	6.6	3.1
27	.2	.4	.3	4.0	**	13.0	20.0	21.9	16.4	10.6	6.1	3.1
28	.2	.3	.3	4.4	**	12.1	20.2	21.9	16.4	10.5	6.0	2.8
29	.2		.3	4.7	**	11.4	20.4	21.8	15.5	10.5	6.1	2.9
30	.3		.3	4.8		13.3	20.3	21.8	16.1	10.6	5.7	2.9
31	.2		.3		**		20.4	1.6		10.8		2.9
MEAN	.4	.2	.4	2.5		13.5	18.4	20.6	17.8	12.8	8.5	3.9

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0								1					1
21.0								13	2				16
20.0							5	12	1				34
19.0							9	1	4				48
18.0							7	3	8				66
17.0							4	1	4				75
16.0							1		8	1			85
15.0						2	4			2			93
14.0						12	1		3	6			115
13.0						7				7			129
12.0						4				3			136
11.0						5				5			145
10.0										7	8		161
9.0											6		167
8.0											3		170
7.0											8		178
6.0											4		182
5.0											1	3	186
4.0				4								8	198
3.0				9								16	223
2.0				4								4	231
1.0	3			11									245
0.0	28	28	31	2									334
-1.0													334
-2.0													334

Station 2000, Temperatures, St. Lawrence River at Cape Vincent, New York, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.6	.2	**	.6	**	12.7	16.0	20.9	21.8	15.6	11.3	4.6
2	.8	.2	**	.6	**	12.9	16.3	20.5	21.3	14.8	10.7	1.9
3	.9	.2	**	**	**	13.1	16.4	20.5	20.0	14.8	10.6	4.3
4	.4	.1	**	**	**	12.9	16.8	20.7	19.7	14.4	10.8	5.0
5	.2	.1	**	**	**	13.4	17.5	20.8	19.6	14.6	10.1	4.6
6	.2	.2	**	**	**	14.1	17.9	[illegible]	19.6	14.8	10.1	4.8
7	0.0	.4	**	**	**	14.3	18.2	21.1	19.9	14.6	10.1	4.8
8	.3	.4	**	**	**	14.7	18.6	21.4	19.8	14.1	10.1	5.0
9	.2	.5	**	**	**	14.9	19.0	21.6	20.0	14.0	9.7	3.7
10	.2	.5	**	**	**	15.7	19.9	[illegible]	20.0	13.8		2.7
11	.2	.5	**	**	**	16.2	18.7	21.4	20.0	13.7	9.4	3.4
12	.3	.5	**	**	**	15.4	18.7	21.3	20.3	13.7	9.6	4.0
13	.4	.4	**	**	**	14.4	19.0	21.3	20.4	12.9	9.2	3.8
14	.4	.5	**	**	**	14.4	19.3	21.5	19.7	13.2	8.5	3.3
15	.2	.5	**	**	**	15.1	19.8	21.2	19.4	13.0	7.9	2.5
16	.1	.7	**	**	7.9	14.9	19.5	21.2	19.0	12.6	7.3	3.5
17	0.0	.3	**	**	7.9	15.0		21.2			7.9	3.6
18	0.0	0.0	.2	**	8.2	15.5		21.3	18.2	11.8	7.9	3.4
19	0.0		.4	**	8.6	15.3	[illegible]	21.5			8.1	3.4
20	.1	**	.3	**	8.1	15.2	20.5	21.9	18.6	11.3	8.4	3.2
21	.2	**	.2		8.2	15.4		22.2	18.3	11.2	7.6	3.3
22	.2	**	.2	**	9.3	15.8		22.5	17.8	11.2	7.2	3.1
23	.2	**	.6	**	10.4	15.3		22.6	17.4	11.0	7.6	3.5
24	.2	**	.4	**	10.4	15.2		22.7	17.1	11.3	7.3	3.3
25	.2	**	.2	**	10.8	14.7		22.6	16.7	11.2	6.9	2.6
26	.2	**	.4	**	10.5	14.7		22.5	16.4	10.8	6.2	2.5
27	.2	**	.1	**	10.2	14.6	[illegible]	22.6	16.6	10.3	6.3	2.3
28	.2	**	.1	**	10.9	15.1	20.8	22.4			5.8	2.3
29	.3		.2		11.5	15.0	[illegible]	22.3	16.8	10.7	5.8	2.7
30	.3		.3	**	12.0	15.3	[illegible]	22.1	15.8	11.0	6.0	2.6
31	.4		.3		11.8		20.8	22.1		11.0		2.8
MEAN	.3	.3	.3	.6	9.8	14.7	19.3	21.6	18.8	12.6	8.5	3.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0								11					11
21.0							1	15	2				29
20.0							2	5	6				52
19.0							18	5	8				68
18.0							4		5				77
17.0							2		3				82
16.0						1	4		3				92
15.0						14	4		1	1			108
14.0						10				8			126
13.0						12				5			133
12.0						3				3			140
11.0					1					10	1		153
10.0					6					4	7		170
9.0					1						5		176
8.0					4						3		183
7.0					2						8		193
6.0											4		197
5.0											2	2	201
4.0												6	207
3.0												13	220
2.0												9	229
1.0												1	230
0.0	31	18	14	2									295
-1.0													295
-2.0													295

Station 2076, Temperatures, Lake Ontario at Olcott, New York. 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.2	.3	.2	2.1	8.9	13.5	16.9	21.1	21.1	14.1	11.3	2.4
2	0.0	.3	.9	3.6	9.1	14.2	17.5	21.3	20.5	12.7	11.5	1.9
3	0.0	.1	1.4	4.4	8.6	14.4	18.2	20.4	14.9	11.1	8.5	1.3
4	0.0	.1	2.5	6.0	8.6	13.5	19.1	20.8	9.3	12.0	8.4	.8
5	0.0	0.0	2.9	6.3	8.4	14.0	19.3	20.8	16.0	12.5	8.3	1.0
6	0.0	0.0	4.3	.7	8.6	13.3	18.6	21.4	15.6	13.2	8.1	1.5
7	0.0	0.0	6.2	.3	7.5	11.7	19.9	21.2	14.4	13.2	7.8	2.2
8	0.0	0.0	4.7	2.8	7.9	12.7	21.1	21.2	16.0	12.3	8.7	2.8
9	0.0	0.0	3.3	1.7	8.4	16.3	22.2	20.8	18.7	10.7	9.3	1.3
10	0.0	0.0	2.8	1.8	8.8	17.6	23.2	11.7	19.8	10.7	9.0	.2
11	0.0	0.0	1.9	2.3	8.5	17.3	22.1	8.1	21.0	11.5	8.1	.8
12	0.0	0.0	2.7	4.2	8.0	16.4	22.5	16.0	20.5	10.2	7.0	2.2
13	0.0	.1	.5	5.0	9.6	15.3	22.4	19.6	20.7	10.1	7.1	2.5
14	0.0	0.0	.4	5.6	9.6	15.2	22.6	21.8	18.7	9.0	6.7	2.5
15	0.0	.1	.8	6.6	10.1	13.1	23.2	21.6	18.6	10.9	5.6	2.6
16	.1	.2	1.4	6.3	10.4	14.1	22.1	19.6	17.6	11.0	4.5	2.6
17	0.0	0.0	.4	6.9	10.5	15.4	22.2	20.9	18.7	10.1	5.9	2.6
18	0.0	0.0	.2	7.3	10.8	16.1	22.2	21.7	17.7	7.8	5.1	1.3
19	0.0	0.0	.2	7.4	9.4	15.9	22.6	22.1	17.3	8.8	6.0	1.4
20	.1	0.0	.5	7.1	7.1	16.7	21.9	21.7	17.2	9.0	6.7	1.1
21	.5	.2	.4	6.9	7.5	18.0	21.8	21.5	17.2	8.1	6.6	1.9
22	.5	.2	.2	8.5	9.3	18.7	20.8	22.2	15.0	7.0	6.0	2.4
23	.7	0.0	.5	8.7	10.7	16.2	18.8	22.8	15.6	8.9	5.9	3.0
24	.6	0.0	.3	7.3	12.9	18.0	19.9	22.8	15.8	9.9	6.4	2.7
25	.3	0.0	.3	7.3	12.9	15.5	17.9	22.5	15.6	9.4	5.4	2.3
26	.7	0.0	.5	8.7	12.6	11.4	10.5	22.1	15.4	9.2	4.7	1.7
27	1.9	.1	.3	7.8	12.8	9.1	13.6	22.4	15.8	8.9	3.6	1.0
28	2.0	.1	1.4	7.7	13.8	9.0	20.0	22.2	15.7	8.9	3.6	.9
29	1.7		1.9	9.5	12.4	10.0	20.2	21.8	15.7	9.0	3.3	1.2
30	1.7		2.2	8.4	12.6	14.1	20.8	21.4	13.3	8.8	3.1	1.6
31	2.1		1.7		12.1		20.8	21.4		9.7		1.6
MEAN	.4	.1	1.5	5.6	9.9	14.6	20.2	20.5	17.0	10.3	6.7	1.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0							2						2
22.0							9	8					19
21.0							3	13	2				37
20.0							5	5	3				50
19.0							4	2	1				57
18.0						3	3		4				67
17.0						2	2		5				76
16.0						6	1	1	2				85
15.0						5			9				99
14.0						5			2	1			107
13.0					1	4	1		1	2			116
12.0					7	1				4			128
11.0								1		3	2		135
19.0				1	5	1	1			6			149
8.0				4	5	2			1	7	2		167
					9			1		6	6		193
6.0				7	4					2	3		209
5.0			1	6							6		222
				2							5		229
4.0			2	2							2		235
2.0			1	1							4	1	242
1.0	2		5	3								12	264
0.0	3		6	2								14	289
-1.0	26	28	16	2								4	365
													365
-2.0													365

Station No. 2092, Temperatures, Niagara River at Lewiston, New York, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	1.4	.3	.5	7.7	12.3	16.4	21.3	22.0	16.1	**	**
2	**	.8	.3	.8	7.6	12.5	16.9	21.5	21.7	15.3	**	**
3	**	.2	.6	.5	7.5	12.8	17.3	21.8	20.9	14.5	**	**
4	**	0.0	.7	.3	7.1	13.3	17.9	22.0	20.6	14.6		**
5	**	0.0	.8	.1	7.4	13.8	18.7	21.9	20.6	14.6	**	**
6	**	0.0	.6	1.2	7.5	14.6	18.8	21.5	20.4	14.8	**	**
7	**	**	.9	2.0	7.6	15.1	18.8	22.3	20.4	14.6	**	**
8	**	.2	.5	2.2	7.8	15.6	19.2	22.1	20.5	14.0	**	**
9	**	.1	.3	1.9	7.8	16.2	19.8	22.0	20.4	14.1	**	**
10	**	.1	.3	1.8	7.5	16.4	20.5	22.1	20.5	14.0	**	**
11	**	.1	.4	2.1	8.0	16.8	21.2	22.0	20.6	14.1	**	**
12	**	.3	.4	2.5	8.1	16.2	20.8	22.0	20.7	14.2	**	**
13	**	.5	.2	2.9	8.3	16.4	20.2	22.1	20.6	13.9	**	**
14	**	.2	.2	3.2	8.2	16.1	20.1	22.1	20.0	14.1	**	**
15	**	.2	.4	3.5	9.0	16.4	20.8	22.0	19.6	14.1	**	**
16	0.0	.4	.4	4.4	9.5	16.4	21.3	22.2	19.5	13.8	**	**
17	-.1	.3	.1	4.4	9.8	16.4	21.2	22.2	19.4	13.7	**	**
18	-.1	.4	.2	4.7	10.0	16.3	21.0	22.2	19.0	12.9	**	**
19	0.0	.6	.3	4.5	10.2	16.3	21.1	22.5	19.0	12.4	**	**
20	-.1	.5	.3	4.4	10.3	16.4	21.4	22.6	19.3	11.9	**	**
21	.2	.5	.3	4.7	10.1	16.8	21.4	22.9	18.8	11.4	**	**
22	.1	.7	.3	4.9	10.2	16.8	21.3	23.0	18.1	**	**	**
23	.3	.2	.4	5.2	10.4	17.1	21.4	23.0	17.5	**	**	**
24	.3	0.0	.2	5.3	10.8	17.2	21.2	23.0	17.5	**	**	**
25	.4	.1	.2	5.2	11.7	17.2	20.9	22.9	17.2	**	**	**
26	.7	.1	.2	5.3	11.4	16.7	21.0	22.9	16.9	**	**	**
27	1.3	.2	.2	6.1	11.0	16.8	21.0	23.0	17.0	**	**	**
28	1.2	.4	.3	6.6	11.2	17.0	21.1	23.0	17.3	**	**	**
29	1.6		.2	6.8	11.5	17.1	21.4	22.5	17.2	**	**	**
30	1.8		.4	7.6	11.6	16.6	21.6	22.3	16.4	**	**	**
31	1.9		.4		11.8		21.3	22.3		**		**
MEAN	.6	.3	.4	3.5	9.3	15.9	20.2	22.3	19.3	14.0	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0								5					5
22.0								21	1				27
21.0							16	5	1				49
20.0							6		12				67
19.0							2		6				75
18.0							3		2				80
17.0						5	2		6				93
16.0						17	2		2	1			115
15.0						2				1			118
14.0						1				12			131
						2				3			136
12.0						3				2			141
11.0					7					2			150
10.0					7								157
9.0					3								160
8.0					4								164
6.0				1	10								175
5.0				3									182 178
				4									
3.0				2									189
2.0				5									196 191
1.0	5	1		3									205
0.0	8	26	31	5									275
-1.0	3												278
-2.0													278

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.4	1.7	0.0	**	9.4	11.6	17.7	**	**	16.3	12.3	5.0
2	1.1	1.3	0.0	**	9.2	**	18.2	**	**	15.3	12.6	4.9
3		.6		**	9.2	**	18.4	**	**	14.7	12.8	4.9
4	1.0	.3	0.0	**	9.0	**	**	**	**	14.6	12.8	4.6
5	1.0	.1	0.0	**	9.1	**	**	**	**	14.8	12.3	4.4
6	1.0	.1	0.0	**	9.1	**	20.7	**	**	15.2	11.9	4.4
7	1.0	.4	0.0	**	9.2	**	20.8	**	**	14.8	11.8	4.2
8	1.0	.4	0.0	**	9.2	**	21.3	**	**	14.2	11.4	4.3
9	1.0	.3	0.0	**	9.2	**	22.1	**	21.0	14.1	11.1	3.7
10	1.0	.3	0.0	**	9.2	**	22.5	**	21.1	14.0	10.9	2.8
11	1.0	.2	0.0	**	9.2	**	22.1	**	21.3	14.3	10.9	2.4
12	1.0	.1	**	**	9.2	**	21.2	**	21.5	14.2	10.9	2.4
13	1.0	.2	**	**	9.2	**	**	**	21.5	14.0	10.0	2.9
14	1.0	.3	**		9.2	**	**	**	20.9	14.1	9.2	3.3
15	1.0	.4	**	**	10.1	**	**	**	0.2	14.1	**	3.8
16	1.0	.3	**	**	10.2	**	**	**	19.8	14.0	**	4.4
17	1.0	.2	**	**	10.2	16.6	**	**	19.6	13.7	**	3.9
18	.9	.2	**	**	10.4	16.8	**	**	19.2	13.1	**	3.5
19	.9	.2	**	**	10.4	17.0	**	**	19.3	12.6	8.5	2.7
20	.9	.2	**	**	10.4	17.4	**	**	19.6	12.3	9.0	2.1
21	.9	.2	**	**	10.4	16.0	**	**	19.2	12.0	8.2	2.4
22	.9	.3	**		10.0	16.6	**	**	18.4	11.7	7.4	3.0
23	.8	.3	**	**	9.9	18.3	**	**	17.9	11.8	7.6	3.3
24	.8	.1	**	**	9.9	17.8	**	**	17.8	11.9	7.6	3.3
25	.8	.1	**	**	9.9	17.3	**	**	17.3	11.9	7.2	2.8
26	.8	.1	**		12.6	16.9	**	**	16.9	11.8	6.8	2.5
27	1.1	0.0	**	**	13.1	16.9	**	**	17.2	11.5	7.0	2.1
28	1.4	0.0	**	**	12.6	17.0	**	**	17.4	11.5	6.8	2.5
29	2.0		**	**	12.4	16.8	**	**	17.4	11.6	5.2	2.8
30	2.0		**		12.3	17.2	**	**	16.6	11.8	5.6	2.8
31	2.3		**		12.3		**	**		11.9		3.1
MEAN	1.1	.3	0.0		10.2	16.9	20.5	**	19.1	13.3	9.6	3.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							3						3
21.0							2		5				10
20.0							2		2				14
19.0									6				20
18.0						3	2		1				25
17.0						6	1		6				39
16.0						5			2	1			47
15.0										2			49
14.0										13			62
13.0					1					2			65
12.0					5					3	5		78
11.0						1				10	4		93
10.0					8						4		105
9.0					17						2		124
8.0											2		126
7.0											5		131
6.0											3		134
5.0											1	1	136
4.0												8	144
3.0												9	153
2.0	3											13	169
1.0	19	2											190
0.0	9	26	11										235
-1.0													236
-2.0													236

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.0	2.3	.8	3.6	13.1	15.8	**	22.9	22.6	14.3	11.5	4.3
2	1.0	2.0	1.0	4.3	13.3	16.6	**	22.7	22.0	12.2	12.2	3.1
3	1.0	1.6	1.4	5.0	13.3	17.0	**	22.9	20.1	12.4	12.2	1.9
4	1.0	1.0	2.4	5.5	13.3	17.0	**	22.7	19.9	12.5	12.2	1.0
5	1.0	1.0	3.5	6.9	13.1	16.9	**	22.6	20.3	12.0	11.6	1.6
6	1.0	1.0	3.8	6.7	12.9	16.7	**	22.7	20.2	12.5	10.7	2.0
7	1.0	1.0	4.3	7.0	12.0	14.9	**	22.7	20.0	12.6	10.3	2.1
8	1.0	1.0	3.8	6.2	12.0	13.8	**	22.8	20.0	12.3	10.4	1.7
9	1.0	1.1	4.1	**	12.0	14.0	**	22.8	20.1	12.6	**	1.0
10	0.0	1.1	4.1	5.9	11.9	14.5	**	23.1	20.0	13.0	**	1.0
11	0.0	.9	3.7	6.0	11.5	15.5	**	23.1	20.2	12.6	10.3	.9
12	0.0	1.0	3.7	6.1	11.7	16.4	**	23.5	20.4	12.9	10.1	1.0
13	0.0	1.1	3.0	7.3	11.8	16.7	**	23.3	20.4	12.9	9.5	1.0
14	0.0	1.2	2.5	7.9	12.0	16.1	**	23.3	20.1	12.9	8.6	1.1
15	.5	1.0	2.6	8.1	12.9	15.4	**	22.9	19.8	12.8	7.4	1.1
16	.9	.7	2.6	8.0	13.3	16.1	**	22.8	19.4	12.9	6.7	1.3
17	1.0	.8	2.7	8.0	13.5	16.1	22.5	23.5	19.4	12.7	7.1	1.1
18	1.0	.8	3.0	8.0	13.6	16.0	22.3	24.0	19.4	12.0	7.1	.9
19	1.0	.8	3.2	9.0	13.6	16.2	23.3	23.8	19.2	11.0	7.2	.8
20	1.0	.8	3.7	9.5	14.1	17.3	23.6	23.3	19.1	9.8	6.6	.5
21	1.2	.8	3.7	9.0	14.5	18.6	23.3	23.2	18.7	9.7	5.0	.4
22	1.1	.8	3.7	9.4	14.5	20.0	22.8	23.4	17.6	9.4	**	.4
23	1.2	.7	3.7	9.5	14.9	19.0	22.6	23.2	17.1	9.6	6.0	.6
24	1.5	.6	2.9	9.6	16.0	19.2	22.6	23.4	16.7	10.0	6.7	.8
25	1.5	.8	2.7	9.9	16.0	19.8	22.3	23.7	16.5	10.1	5.9	.8
26	1.6	.8	2.8	10.9	16.0	20.1	22.2	23.8	16.4	10.3	4.5	.5
27	2.0	.8	2.8	10.4	16.0	19.8	22.5	23.6	16.5	10.2	4.5	.5
28	2.2	.8	2.8	9.8	15.9	20.0	23.5	23.0	16.7	10.2	4.3	.4
29	2.3		3.3	11.3	15.3	20.0	23.3	22.6	16.4	10.3	4.4	.5
30	2.2		3.8	12.3	15.2	20.2	23.4	23.0	15.6	10.4	4.3	.9
31	2.4		3.7		15.2		23.1	22.9		10.8		.9
MEAN	1.1	1.0	3.1	8.6	13.7	17.2	22.9	23.1	19.0	11.6	8.0	1.2

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								1					1
23.0							7	17					25
22.0							8	13	2				48
21.0													48
20.0									11				64
19.0						4			7				75
18.0						1			1				77
17.0						3			2				82
16.0					4	10			6				102
15.0					4	3			1				110
14.0					4	3				1			118
13.0					9	1				1			129
12.0				1	6					16	3		155
11.0				1	4					1	2		163
10.0				2						8	5		178
9.0				8						4	1		191
8.0				4							1		196
7.0				3							4		203
6.0				5							4		212
5.0				3							2		217
4.0			3	1							5	1	227
3.0			15	1								1	244
2.0	5	2	10									2	263
1.0	19	12	2									12	308
0.0	7	14	1									15	345
-1.0													345
-2.0													345

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.6	1.1	1.2	2.2	8.5 9.0	12.6	16.5	20.7	**	**	**	**
2	.9	.6	1.4	2.6	7.9	12.6	16.0	20.8	**	**	**	**
3	.8	.7	2.0	3.0	8.5	13.1	16.0	20.9		**	**	**
4	.7	.7	2.2	3.7	8.6	13.0	15.7	20.7	**	**	**	**
5	1.0	.6	3.4	4.1	8.2	13.1	15.6	20.0	**	**	**	**
6		.8	3.2	4.1	8.6	13.2	16.4	20.3	**	**	**	**
7	.9	.7	2.6	3.5	8.1	11.2	17.3	20.7	**	12.1	* *	**
8	.3	.7	2.0	3.9		10.5	18.4	20.7	**	11.8	10.1	**
9	0.0	.7		3.7	7.8	12.0	17.5	21.0	**	11.9	10.0	**
10	0.0	.7	2.9	4.1	8.7	11.3	19.5	21.2	**	12.2	10.1	**
11	0.0	.7	3.5	4.0	8.5	11.0	19.0	**		12.5	10.0	**
12		.7	3.0	3.8	7.9	11.8	19.2	**	**	12.4	9.8	**
13	0.0	.7	2.0	4.7	8.0	12.2			**	11.8	9.3	**
14	0.0	.7	2.10	4.9	8.9	12.2	19.3	**	**	12.4	8.3	**
15		.7	2.1	5.1	9.1	12.0	19.6	**		12.1	7.1	**
16	.3	.7		5.5	9.0				**	11.9	6.8	**
17	.5	.7	2.0	5.6	8.9	11.6	19.5	**	**	11.7	7.2	**
18	0.0	.9	2.1	6.0	10.3	11.5	19.4	**	**	10.4	7.4	**
19	0.0	.8	2.3	6.7	11.8	11.6	19.8	**		9.8	8.1	**
20	0.0	.7	2.4	7.2	12.4	12.6	20.0	**	**	8.0	**	**
21	.9	.8	2.3	6.6	12.5	13.0	20.2	**	**	7.8	**	**
22	1.1	.9	2.3	6.0	11.5	13.6	20.3	**	**	7.6	**	**
23	1.1	.7	2.5	6.0	11.6	13.4	19.8	**	**	**	**	**
24	.7	.8	1.58	7.5	12.1	13.5	20.3	**	**	**	**	**
25	.3	1.0	1.3	7.9	12.1	13.6	20.7	**	**	**	**	**
26	**	1.1		7.7	12.1	**	20.7	**	**	**	**	**
27	**	1.2	1.5	7.3	12.5	14.6	20.2	**	**	**	**	**
28	**	1.2	1.7	6.9	11.4	15.9	20.3	**	**	**	**	**
29	**		1.4	7.1	10.7	16.9	20.6	**	**	**	**	**
30	**		1.9	7.8	11.5	16.7	20.7	**	**	**	**	**
31	**		2.0		12.2		20.7	**		**		**
MEAN	.4	.8	2.2	5.3	10.0	12.8	19.0	20.7	**	11.0	8.7	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													
23.0													
22.0													
21.0							11	2					2
20.0							11	8					21
19.0													32
18.0							1						33
17.0													35
16.0						1	4						41
15.0						1	2						44
14.0													45
13.0						9							54
12.0					7	7				6			74
11.0					2	8				5			92
10.0					3	1				1	4		100
9.0										1	2		106
8.0					11					1	2		120
7.0				7	3					2	3		135
6.0				6							1		142
5.0				3									145
4.0				6									151
3.0			4	6									161
2.0			18	2									181
1.0	3	5	9										198
0.0	22	23											243
-1.0													243
-2.0													243

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.4	1.2	2.0	.8		12.7	13.3	**	18.1	13.3	10.7	2.2
2	.6	.5	1.5	1.9	9.9				17.8	10.6	11.2	3.4
3	.6	.9	1.4	2.9	9.7	11.8	14.3 15.1	****	17.0	9.8	10.9	2.5
4	.5	1.7	2.5	4.6					16.9	10.1	10.8	2.3
5	.6	2.0	4.1	4.7	10.3 9.3	11.1 8.9	16.3 16.1	****	17.5	11.2	10.7	1.9
6	.7	2.1	3.5	4.4	8.3	9.9	17.3	**	18.6	12.3	8.9	2.2
7	.6	2.4	4.8	5.0	7.8	10.8	16.5	**	19.2	12.5	8.3	1.7
8	1.0	2.3	5.0	5.5	8.5 2	10.1	16.5	**	18.8	11.8	8.8	3.0
9	1.9	2.4	3.4	4.1	9.3	10.4	17.4	**	18.7	11.4	8.8	2.4
10	2.0	1.9	3.3	3.8		10.0	20.0	**	19.0	11.7	8.7	2.0
11	1.9	2.3	3.3	4.4 4.4	10.0 8.7	10.2 9.3	21.1 20.8	****	18.6	12.2		1.8
12	1.6		3.3						17.7	12.5	8.8	4.0
13	1.1	2.0	2.3	5.3	8.6	12.4	19.1	**	18.8	11.6	8.2	3.2
14	1.0	1.6	1.1	6.4	9.1	11.8	19.2	**	18.2	11.7	7.2	2.5
15	1.3	1.9	1.6	5.5	8.6		20.8	**	17.1	11.4	6.1	1.2
16	1.6	1.6	2.8	6.3	10.0 9.6	8.7**	20.4 19.1	****	17.0	10.9	5.3	1.2
17	1.2		2.5	6.8					16.8	10.8	5.4	1.7
18	.9	1.8							16.3	8.45	5.75	1.2
19	1.0	1.6	2.6 3.0	6.9 7.1	10.8 11.7	****	18.3 15.2	****	16.6	6.5	6.4	1.3
	.6	1.2	2.3	7.5	12.2	**	20.4	**	17.2			3.2
21	.7	1.9	2.6	8.6	12.8	**	19.9	**	16.9	5.6	6.2	3.8
22	1.4	1.5	2.7	8.8	9.3	**	20.1	**	15.4	6.2	4.9	2.8
23	3.2	1.7	2.5	8.4	8.7	**	20.1	**	13.8	7.5	5.7	1.2
24	2.1	1.4	1.8	7.5	10.4	**	20.5	**	13.1	7.8	4.1	1.9
25	2.5	1.8	.7	7.4			20.9	**	12.2	8.5		1.5
26	1.9	2.1	1.9	8.0	12.0	****	16.1	**	12.4	9.1	4.3	.5
27	2.0	1.7	4.1	9.0	12.0	**	18.1	**	13.9	9.2	2.2	.2
28	2.6	2.0	2.2	9.2	12.2	**	12.6	**	14.7	9.6	2.6	1.2
29	3.1		.2	8.7	11.5	**	17.2	**	15.1	9.6	2.9	.7
	2.0		.3	9.2	12.3	**	18.5	**	14.0	9.9	2.5	1.0
31	2.2		.8				19.3	**		10.2		.8
MEAN	1.4	1.7	2.5	6.1	10.2	10.7	17.8	**	16.5	10.1	6.9	2.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
													0
22.0							1						1
20.0							9						10
							5						17
19.0							2		7				26
17.0							3		7				36
16.0							2		2				46
15.0							1		2				50
14.0							1		3	1			53
13.0							1		2	4			58
12.0					7	3							75
						4					1		90
19.00					5	2	1			7	4		110
8.0				3	8	2				2			15 130
				5	7						8		154
6.0				4	1					2	3		162
5.0				4						1	5		182 171
4.0			1	6								1	
3.0	2	9	6	1							4	8	196 210
2.0	7	3	11	1							4	13	250
1.0		17											299
0.0	12		6	1									
-1.0	10	2	4	1								4	320 320
-2.0													320

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.6	0.0	.1	.1	5.2	8.2	**	18.5	17.4	10.9	8.3	1.7
2	.4	0.0	0.0	.1	5.6	8.4	**	18.7	16.9	10.5	8.1	2.4
3	.3	.1	0.0	.1	4.9	9.2	**	18.5	16.9	10.5	7.9	2.2
4	.3	.2	0.0	.2	**	8.7	**	17.3	16.7	10.5	8.1	2.6
5	.2	.2	0.0	.3	**	9.3	**	17.9	16.5	10.5	7.6	2.8
6	.3	.2	**	.3	4.8	9.6	**	18.3	16.5	10.5	7.3	2.7
7	.2	.2	**	.3	4.5	8.0	**	18.5	16.5	10.5	7.6	2.7
8	.2	.2	**	.2	5.3	8.8	**	19.4	16.4	10.5	7.8	2.2
9	.4	.2	**	.4	5.6	10.0	**	19.5	16.4	9.2	8.0	1.2
10	.3	0.0	**	.8	5.4	9.6	17.0	18.0	15.3	9.5	8.0	1.9
11	.4	.1	**	.2	5.5	10.5	16.4	15.0	11.7	9.5	7.9	2.1
12	.4	.1	**	.4	4.8	10.9	16.9	15.2	15.1	9.8	7.7	2.5
13	.4	.2	**	.9	5.4	11.0	17.7	17.5	14.5	9.4	7.1	2.1
14	.4	.2	0.0	1.0	5.6	11.8	18.5	18.5	15.1	9.2	6.5	2.0
15	.4	.2	.2	.9	5.8	10.9	18.3	18.3	15.0	9.0	5.1	1.3
16	.4	.3	.4	1.0	6.2	10.5	18.1	17.9	13.6	8.9	4.6	1.1
17	.4	.2	.3	1.0	5.9	11.0	18.2	18.8	13.7	8.7	5.8	1.5
18	.4	.1	0.0	1.3	6.5	11.3	17.9	19.1	12.9	8.3	6.0	1.4
19	.4	.2	0.0	2.0	6.7	11.5	18.7	19.6	13.3	7.8	6.5	1.4
20	.4	.3	.2	**	7.0	11.8	18.6	19.6	13.5	7.5	6.5	1.8
21	.4	.3	.2	**	6.7	12.5	17.9	19.0	13.0	7.5	6.0	2.0
22	.4	.4	.2	4.1	6.6	13.3	18.2	19.4	12.9	7.7	5.9	1.9
23	.3	.1	0.0	4.0	7.2	13.6	18.2	19.7	12.8	7.8	5.7	1.6
24	.3	.1	0.0	3.3	7.8	13.3	18.6	19.7	12.2	8.0	5.7	1.6
25	.2	0.0	0.0	3.3	8.0	14.0	17.5	19.8	12.1	7.8	4.6	1.4
26	.2	.1	0.0	3.7	8.1	14.8	17.8	19.7	11.0	7.6	4.2	1.6
27	.1	.1	.1	4.2	8.4	15.0	18.6	19.3	11.4	7.5	3.0	1.6
28	0.0	.1	.1	4.2	8.2	**	18.4	19.1	12.8	7.4	2.9	2.0
29	0.0		0.0	4.7	7.8	**	18.4	18.7	12.5	7.7	2.7	1.8
30	0.0		0.0	5.0	8.9	**	18.5	18.5	11.9	7.9	2.3	1.8
31	.2		.1		8.2		18.2	18.2		8.1		1.3
MEAN	.3	.2	.1	1.7	6.4	11.0	18.0	18.6	14.2	8.9	6.2	1.9

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0								13					13
18.0							14	12					39
17.0							6	4	1				50
16.0						1	2		8				60
15.0						5		2	4				67
14.0						6			1				70
13.0						3			5				78
12.0						1			7				86
11.0						6			4				96
10.0						5				8			109
9.0						4				7			120
8.0					6	5				5	5		141
7.0					4					11	8		164
6.0					5						5		174
4.0				1	10						5		190
3.0				5	4						3		202
											1		205
2.0				1							3	13	223
1.0				4								18	245
0.0	31	28	23	14									341
-1.0													341
-2.0													341

Station No. 7056, Temperatures, Lake Michigan at Oak Creek, Wisconsin, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	11.2	18.2	12.1	10.9	9.3	3.9
2	**	**	**	**	**	**	11.3	10.5	13.8	10.4	9.2	3.8
3	**	**	**	**	**	**	10.6	10.6	13.5	11.1	8.8	3.3
4	**	-.2	**	**	**	**	10.8	**	14.1	11.1	9.0	3.2
5	**	.1	**	**	**	**	12.0	**	14.0	11.3	8.4	3.9
6	**	-.1	**	**	**	**	12.4	**	13.8	11.5	8.0	4.4
7	**	.1	**	**	**	**	11.0	13.2	14.1	11.0	8.1	3.5
8	**	0.0	**	**	**	**	10.5	13.3	12.6	11.1	8.6	3.1
9	**	0.0	**	**	**	**	10.1	14.6	12.8	11.0	8.7	1.8
10	**	.2	**	**	**	**	12.3	12.5	12.5	10.9	9.1	2.1
11	**	.2	**	**	**	**	15.3	8.3	11.9	10.6	8.9	2.9
12	**	0.0	**	**	**	**	15.1	8.1	14.5	10.7	8.1	3.8
13	**	.6	**		**	9.0	9.9	9.5	14.2	10.6	7.9	4.1
14	**	-.2	**	**	**	9.6	11.4	11.4	13.3	10.8	7.2	5.0
15	**	.3	**	**	**	7.9	17.4	12.8	13.6	10.7	7.0	6.6
16	**	.2	**	**	**	9.4	19.2	11.2	14.0	10.4	7.0	4.8
17	**	0.0	**		**	8.9	12.8	11.3	12.9	10.3	7.4	3.8
18	**	1.1	**	**	**	9.3	8.8	11.9	14.1	10.0	7.1	3.1
19	**	.4	**	**	**	9.0	11.4	10.8	13.5	9.2	6.9	4.1
20	**	.3	**	**	**	9.3	16.7	9.9	13.8	8.6	6.7	3.4
21	**	.8	**		**	10.1	18.0	7.2	13.4	8.8	6.0	2.9
22	**	.4	**	**	**	11.8	15.2	7.5	12.7	9.1	6.5	3.5
23	**	0.0	**	**	**	11.7	17.8	7.8	12.7	9.1	6.4	2.5
24	**	0.0	**	**	**	12.1	18.5	10.2	12.9	9.1	6.4	2.9
25	**	-.1	**		**	12.4	17.4	11.7	13.0	9.3	5.1	2.0
26	**	0.0	**	**	**	12.1	16.5	7.5	13.0	9.2	6.4	3.2
27	**	**	**	**	**	11.6	15.7	9.4	13.1	9.2	5.9	3.1
28	**	1.3	**	**	**	12.0	14.9	9.2	12.7	9.5	4.8	4.8
29	**		**		**	10.7	15.6	10.0	13.1	9.8	4.5	2.8
30	**		**	**	**	10.5	17.5	11.2	12.2	9.6	5.8	2.3
31	**		**		**		18.3	8.8		9.7		2.2
MEAN	**	.2	**	**	**	10.4	14.1	10.7	13.3	10.1	7.3	3.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0							1						0
19.0							3						1
18.0							3	1					5
17.0							4	1					9
16.0													11
15.0							2						15
14.0							1	1	7				25
13.0								2	12				39
12.0						4	4	6	10				59
11.0						3	5	6	1	11			81
10.0							1	5		11			104
9.0						6	1	4		11	4		130
8.0						1		3		2	8		145
7.0						1		1		2	8		155
6.0											7	1	164
5.0											3	1	168
4.0											2	5	175
3.0												14	189
2.0												9	198
1.0		2										1	201
0.0		18											219
-1.0		18											223
-2.0													223

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 197.

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.7	0.0	**	**	**	**	**	**	**	**	**	**
2	.9	0.0	**	**	**		**		**	**	**	**
3	1.6	.1	**	**	**	**	**	**	**	**	**	**
4	1.7	.2	**	**	**	**	**	**	**	**	**	**
5	1.4	**	**	**	**	**	**	**	**		**	**
6	1.4		**	**	**		**	**	**	**	**	**
7	.9		**	**	**	**	**	**	**	**	**	**
8	.7	**	**	**	**	**	**	**	**	**	**	**
9	.4	**	**	**	**	**	**	**	**		**	**
10	1.0	**	**	**	**	**	**		**	**	**	**
11	.4	**	**	**	**	**	**	**	**	**	**	**
12	.2	**	**	**	**	**	**	**	**	**	**	**
13	.2	**	**	**	**	**	**		**		**	**
14	.2		**		**		**	**	**	**	**	**
15	.5	**	**	**	**	**	**	**	**	**	**	**
16	.1	**	**	**	**	**	**	**	**	**	**	**
17	0.0	**	**	**	**	**	**		**		**	**
18	0.0		**		**	**	**	**	**	**	**	**
19	0.0	**	**	**	**	**	**	**	**	**	**	**
20	0.0	**	**	**	**	**	*	**	**		**	**
21	.2	**	**	**	**	**	/		**	**	**	**
22	0.0	**	**		**	**	**	**	**	**	**	**
23	0.0	**	**	**	**	**	**	**	**	**	**	**
24	0.0	**	**	**	**	**	**	**	**	**	**	**
25	0.0	**	**	**	**	**	**		**		**	**
26	0.0		**		**	**	**	**	**	**	**	**
27	0.0	**	**	**	**	**	**	**	**	**	**	**
28	0.0	**	**	**	**	**	**	**	**	**	**	**
29	0.0		**		**	**	**		**	**	**	**
30	0.0		**	**	**	**	**	**	**	**	**	**
31	0.0		**		**		**	**		**		**
MEAN	.4	.1	**		**	**	**	**	**	**	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													
19.0													-
18.0													0
17.0													0
16.0													
15.0													-
14.0													0
13.0													0
12.0													0
11.0													0
10.0													0
9.0													0
8.0													0
7.0													0
6.0													0
5.0													0
4.0													
3.0													
2.0													
1.0	5												
0.0	26	4											35
-1.0													35
-2.0													35

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1974

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	.1	0.0	.1	.2	6.9	9.6	**	17.1	14.7	7.8	8.3	2.5
	0.0	0.0	.1	.2	7.5	9.0	**	16.0	15.0	7.5	7.5	2.9
	0.0	0.0	.1	.2	7.6	9.4	**	12.7	14.5	7.9	7.2	2.2
	.1	0.0	.1	.1	6.9	11.0	**	8.3	14.6	9.0	6.7	2.1
	.1	0.0	.2	.1	5.7	10.6	**	10.4	14.8	9.5	6.3	1.9
	0.0	.1	.3	.1	5.7	9.5	**	12.7	15.4	8.6	6.2	2.0
	0.0	.2	.3	.1	5.6	9.3	**	14.4	15.1	8.2	6.1	2.1
8	0.0	.1	.4	1.1	7.6	10.6	**	13.9	15.3	8.3	6.6	1.7
9	0.0	.1	.3	2.2	7.3	9.4	**	12.8	15.1	8.1	6.7	1.3
10	0.0	.1	.2	1.7	6.8	7.7	**	7.6	14.2	8.9	7.0	1.2
11	0.0	.1	.2	.6	6.6	8.2	**	8.6	13.6	10.1	6.9	1.3
12	0.0	.1	.2	.8	6.5	8.9	**	13.4	13.7	9.5	6.1	1.2
13	.1	.1	.3	.4	6.8	10.1	**	15.1	12.8	8.8	5.1	.6
14	0.0	.1	.3	.2	6.4	9.5	**	14.8	12.5	8.9	4.9	.3
15	.2	0.0	.2	.7	7.1	9.5	**	13.1	13.0	8.3	4.3	.3
16	.2	0.0	.3	1.5	7.2	9.2	**	15.9	13.0	8.3	3.6	.3
17	.2	.1	.2	1.5	7.9	9.2	**	16.1	13.2	7.6	3.4	.3
18	.5	.1	.2	2.7	8.1	10.1	**	16.5	12.9	6.6	3.6	.3
19	.4	.1	.2	4.0	7.6	11.2	17.3	16.4	13.4	6.7	3.6	.3
20	.4	.1	.1	4.3	7.1	11.8	14.5	16.5	13.1	6.5	3.6	.3
21	.1	.1	.2	4.7	7.9	11.5	10.6	16.7	11.7	6.5	3.5	.3
22	.1	.1	.2	3.6	10.3	10.4	14.0	17.1	10.1	7.4	3.2	.3
23	.1	.1	.2	**	10.0	**	16.5	16.8	10.0	7.7	3.3	.3
24	.1	.1	.5	5.2	9.6	**	16.0	16.3	10.9	7.7	3.2	.3
25	.1	.1	.5	5.9	10.3	**	17.0	16.0	11.4	7.9	2.2	.3
26	.1	.1	.3	6.2	10.1	**	18.4	16.9	11.7	7.6	2.3	.3
27	0.0	.1	.4	6.4	8.6	**	18.3	16.3	12.5	7.8	2.1	.3
28	0.0	.1	.5	6.3	7.6	**	18.0	16.4	11.3	8.7	2.3	.3
29	0.0		.5	7.1	8.4	**	17.5	16.0	9.8	9.1	2.3	.4
30	0.0		.4	7.4	8.3	**	16.9	15.5	9.2	8.9	2.5	.4
31	0.0		.4		8.5		17.0	15.0		8.8		.4
MEAN	.1	.1	.3	2.6	7.7	9.8	16.3	14.6	13.0	8.2	4.7	.9

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													
21.0													0
20.0													0
19.0													0
18.0							4	2					3
17.0							3	13					9
													25
15.0								4	5				34
14.0							2	3	5				43
13.0								3	7				53
12.0						4			4				60
11.0						5			3				68
					4					1			83
10.0					5	10	1	1	2	4	1		100
8.0					11	2		2		12	3		122
7.0				2									
5.0				2	7	1		1		10	8		150 172
4.0				3	3						1		183 178
3.0				1							2		
2.0				2							96	6	193 207
1.0												6	
0.0	31	28	31	12								19	217 338
-1.0													338
-2.0													338

Station No. 1029, Temperatures, St. Lawrence River at Ogdensburg, New York, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.4	-.1	.2	.5	7.0	15.6	20.0					
2	1.1	-.1	-.1	.8	7.1	15.8	20.0					
3	1.1	.4	0.0	.4	7.2	15.7	20.0					
4	1.0	.7	-.1	.3	7.2	15.9	19.5					
5	1.0	.8	.1	.2	7.2	**	19.8					
6	1.1	.7	0.0	.2	8.0	16.0	20.2					
7	.9	.5	0.0	.2	8.1	15.6	20.7					
8	1.0	.6	0.0	.2	8.0	15.5	20.7					
9	1.3	.4	0.0	.6	8.4	15.7	21.0					
10	1.5	.5	0.0	1.2	8.6	15.9	21.3					
11	1.8	.6	.6	1.7	8.8	15.9	21.8					
12	1.5	.5	.7	1.9	9.0	16.0	21.9					
13	1.0	.6	0.0	2.2	9.5	16.1	21.9					
14	.5	.7	0.0	2.6	9.6	16.1	22.0					
15	.3	.4	-.1	3.3	9.7	**	22.4					
16	.2	0.0	-.1	4.0	10.0	**	22.8					
17	0.0	.5	0.0	4.1	10.4	17.5	23.0					
18	.2	.5	.5	4.5	10.7	17.7	23.1					
19	.2	-.1	.5	**	11.4	18.0	23.2					
20	-.2	.1	.3	**	12.0	18.3	23.3					
21	-.1	.4	.4	**	12.6	18.4	23.4					
22	.1	0.0	.6	5.1	13.1	18.7	23.4					
23	0.0	-.2	.2	5.2	13.5	19.0	23.0					
24	.2	-.2	.2	5.4	14.1	19.4	22.4					
25	-.1	-.2	.2	6.2	14.3	19.4	**					
26	0.0	.1	0.0	6.2	14.6	**	**					
27	-.2	.2	0.0	6.3	15.0	**	**					
28	-.2	.4	.2	6.2	15.0	**	**					
29	-.1		.3	6.2	14.6	**	**					
30	-.1		.4	6.9	14.5	**	**					
31	-.1		.4		14.9		**					
MEAN	.5	.3	.2	3.1	10.8	16.9	21.7					

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0							7						7
22.0							4						11
21.0							5						16
20.0							6						22
19.0						3	2						27
18.0						4							31
													33
16.0						4							37
15.0					2	9							48
14.0													54
					6								55
12.0					2								58
11.0					1								59
10.0					3								62
9.0					4								66
8.0					6								72
7.0					5								77
6.0				6									83
5.0				3									86
4.0				3									89
3.0				1									90
2.0				2									
1.0	12			3									92
0.0	11	22	27	9									107 175
-1.0	8	6	4										194
-2.0													194

Station No. 1030, Temperatures, St. Lawrence River at Ogdensburg, New York, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	1.2	1.3	1.3	5.3	14.5	19.0	23.1	20.9	15.9	12.0	7.2
2	**	1.2	1.4	1.4	5.3	14.8	19.0	23.3	20.6	15.6	11.8	6.7
3	**	1.2	1.2	1.4	5.4	14.8	18.7	23.6	20.2	15.0	12.0	6.5
4	**	1.2	1.2	1.3	5.4	14.7	18.7	23.8	20.0	14.9	12.1	6.3
5	3.0	1.2	1.2	1.5	5.5	14.8	19.3	23.9	20.0	15.0	11.9	6.0
6	2.9	1.3	1.2	1.4	5.8	14.8	19.4	23.4	20.0	15.0	11.6	6.1
7	2.7	1.2	1.2	1.4	5.7	14.6	19.4	23.1	19.7	14.6	11.6	5.5
8	2.6	1.2	1.1	1.4	5.9	14.4	19.7	23.2	19.6	14.5	11.8	5.1
9	2.6	1.2	1.1	1.3	6.2	14.5	19.9	23.1	19.2	14.3	12.0	4.7
10	3.0	1.3	1.1	1.4	6.2	14.7	20.2	22.9	18.8	14.0	12.0	4.7
11	3.0	1.4	1.1	1.5	6.2	15.1	20.5	22.6	18.6	14.0	11.7	4.7
12	3.2	1.3	1.1	1.5	6.3	15.2	20.9	22.4	18.6	14.0	11.6	4.5
13	3.1	1.2	1.1	1.5	7.6	15.2	21.2	22.2	18.3	14.0	11.5	4.3
14	3.1	1.2	1.1	1.7	8.1	15.4	21.3	21.9	18.0	14.1	11.1	4.1
15	2.9	1.2	1.1	2.5	8.2	15.4	21.1	21.8	17.8	14.2	10.2	4.8
16	2.3	1.3	1.1	2.8	8.4	15.9	21.3	**	17.5	14.0	10.1	4.3
17	2.1	1.2	1.1	3.0	8.9	16.4	21.7	**	17.5	13.8	10.1	3.9
18	2.0	1.1	1.2	3.5	9.5	16.9	22.3	**	17.4	13.6	10.2	3.7
19	2.1	1.1	1.4	4.8	9.8	17.0	22.5	**	17.4	13.1	10.1	3.0
20	1.9	1.2	1.3	4.3	10.6	17.2	22.6	**	17.4	13.0	9.8	1.9
21	1.6	1.3	1.3	**	11.2	17.4	22.7	**	17.2	13.0	9.6	1.3
22	1.4	1.1	1.3	**	11.8	17.8	22.8	**	16.8	12.9	9.3	1.2
23	1.3	1.1	1.2	**	12.0	18.1	22.9	**	16.7	13.0	9.1	1.0
24	1.3	1.1	1.2	**	12.5	18.4	22.8	**	16.5	13.0	8.9	.9
25	1.4	1.1	1.1	5.2	13.1	18.5	22.5	**	16.0	13.3	8.5	.5
26	1.3	1.4	1.1	5.2	13.6	18.7	22.5	21.6	15.8	13.3	7.9	.4
27	1.2	1.3	1.2	5.2	13.7	19.1	22.4	21.7	15.8	13.1	7.6	.6
28	1.2	1.3	1.2	5.3	13.5	19.0	22.4	21.7	15.9	13.1	7.5	.9
29	1.2		1.3	5.3	13.4	18.6	22.3	21.8	15.9	13.2	7.3	1.1
30	1.1		1.4	5.4	13.5	18.8	22.4	21.5	15.9	12.8	7.3	1.2
31	1.2		1.4		13.7		22.8	21.2		12.2		1.4
MEAN	2.1	1.2	1.2	2.8	9.1	16.4	21.2	22.6	18.0	13.9	10.3	3.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													
23.0								4					4
22.0							14	4					27
21.0							5	8					40
20.0							3		6				49
19.0						2	7		3				61
18.0						6	2		5				74
17.0						4			7				85
16.0						2			4				91
15.0						6			5	5			107
14.0					7	10				11			128
13.0					7					12			147
12.0					2					7	5		157
11.0					1						9		168
10.0					1						5		174
9.0					2						4		180
8.0					4						2		186
7.0					1						5	1	193
6.0					4							5	202
5.0				6	8							2	218
4.0				2								8	228
3.0	6			2								3	239
2.0	9			2								3	250
1.0	12	28	31	14								7	342
0.0												5	347
-1.0													347
-2.0													347

Station No. 1070, St. Lawrence River at Clayton, New York, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.9	.3	.2	1.1	4.6	13.7	13.4	22.7	20.2	15.5	11.7	7.5
2	2.8	.3	.1	1.1	4.7	14.3	14.1	22.9	20.1	15.3	11.4	6.8
3	2.7	.4	.1	1.0	5.1	14.0	13.5	23.2	19.8	14.8	11.2	6.5
4	2.8	.4	.1	.7	5.1	14.0	12.6	23.4	19.6	14.8	11.4	6.3
5	2.7	.4	.1	.5	5.3	13.6	12.6	23.7	19.5	14.6	11.4	6.2
6	2.8	.4	.1	.5	5.6	14.0	12.2	23.1	19.3	14.3	11.6	6.3
7	2.6	.3	.1	.6	5.7	14.2	12.6	21.7	18.8	14.1	11.7	5.7
8	2.6	.2	.1	.7	6.3	14.3	15.8	20.0	18.5	14.1	11.9	5.2
9	2.8	.2	.1	1.0	7.1	14.3	19.6	21.3	18.2	14.0	12.0	4.3
10	2.8	.1	.1	1.3	7.1	14.4	20.5	21.1	18.0	14.0	12.0	5.2
11	2.9	.1	.1	1.6	7.1	14.2	20.3	21.5	17.8	13.9	11.6	5.2
12	2.9	.1	.2	1.7	7.2	14.6	20.2	21.3	17.7	13.8	11.5	4.8
13	2.6	.1	.2	1.8	7.6	15.2	20.1	21.5	17.5	13.8	11.4	4.4
14	2.3	.1	.3	1.9	8.2	15.6	21.7	21.8	17.2	13.8	10.8	4.9
15	2.2	.1	.2	2.1	8.0	15.7	22.1	21.5	17.0	13.9	10.2	5.2
16	2.0	.1	.2	2.2	8.8	16.0	21.9	21.6	16.8	13.8	10.1	4.8
17	1.6	.1	.2	2.6	9.3	15.8	22.4	22.2	16.7	13.5	9.9	4.5
18	1.6	.1	.3	2.7	10.0	16.1	22.4	22.2	16.6	12.7	10.0	3.8
19	1.6	.2	.4	3.2	10.0	16.3	22.4	21.8	15.6	12.6	9.9	3.2
20	.9	.2	.5	3.4	10.5	16.2	22.4	21.5	15.6	12.7	9.7	2.5
21	.8	.2	.6	3.8	11.0	15.9	22.5	21.1	16.5	12.5	9.6	2.1
22	.5	.2	.7	3.8	11.6	15.4	22.6	20.9	16.3	12.6	9.3	1.8
23	.3	.2	.7	3.9	11.4	15.4	22.7	20.7	16.2	12.7	9.2	1.7
24	.3	.2	.8	4.2	11.7	16.5	22.9	20.8	16.1	12.8	8.8	1.7
25	.3	.2	.8	4.2	10.6	15.9	22.7	21.1	15.3	13.0	7.8	2.5
26	.3	.2	.8	4.3	10.8	15.2	22.6	21.4	15.5	12.9	8.1	2.3
27	.2	.2	.7	4.6	12.5	14.8	22.4	21.5	15.5	12.9	7.8	2.0
28	.2	.1	.7	4.6	13.7	14.7	22.4	21.4	15.5	12.9	7.8	2.2
29	.3		.8	4.6	13.8	14.6	22.4	21.1	15.6	12.9	7.5	2.0
30	.3		.9	4.7	13.1	14.2	22.4	20.7	15.6	12.5	7.7	1.9
31	.3		1.0		13.5		22.5	20.3		12.2		1.8
MEAN	1.7	.2	.4	2.5	8.9	15.0	19.7	21.6	17.4	13.5	10.2	4.0

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0								4					4
22.0							16	4					24
21.0							2	17					43
20.0							4	6	2				55
19.0							1		4				60
18.0									4				64
17.0									5				69
16.0						5			9				83
15.0						9	1		6	2			101
14.0					4	14	1			8			124
13.0					1	2	2			8			140
12.0					4		4			13	2		160
11.0					5						11		175
10.0											4		184
9.0					1						6		191
8.0					3						2		196
7.0					5						5	1	207
6.0					1							5	213
5.0					5							5	223
4.0				7	2							6	238
3.0												2	245
2.0	3			4								7	272
1.0	12		1	9								5	290
0.0		28	30	5									365
-1.0													365
-2.0													365

Station 2000, Temperatures, St. Lawrence River at Cape Vincent, New York, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.0	.7	.4	1.3	**	14.8	20.7	23.9	20.2	15.7	11.3	6.2
2	2.6	.7	.4	1.3	**	14.5	21.8	24.6	20.0	15.3	11.3	6.7
3	3.0	.6	.5	1.0	**	14.8	21.3	24.9	19.7	14.6	11.6	6.5
4	2.5	.3	.6	.5	**	14.6	21.4	24.7	19.6	14.3	12.1	5.9
5	2.2	.3	.6	.6	6.5	14.7	22.2	24.2	19.4	14.2	11.8	5.9
6	2.5	.3	.5	.7	6.8	15.0	22.5	23.0	19.4	14.3	11.8	6.0
7	2.9	.2	.5	.8	6.8	15.1	22.9	22.0	19.0	14.1	11.9	4.2
8	2.8	.3	.4	.9	7.1	14.9	23.4	22.0	19.0	14.4	12.1	4.0
9	2.8	.2	.4	1.4	7.1	14.9	23.5	22.0	18.4	14.0	12.1	4.0
10	2.6	.3	.4	1.7	7.7	14.7	23.6	22.2	18.2	13.9	12.0	5.2
11	3.1	.3	.4	1.8	[illegible]	15.3	23.5	22.3	18.2	13.9	11.3	5.3
12	2.5	.2	.5	1.9	8.4	15.6	23.4	22.4	17.9	13.7	11.3	4.6
13	1.8	.1	.7	2.0	9.2	16.0	23.2	22.6	17.6	13.9	11.2	3.9
14	1.6	.2	.4	2.4	[illegible]	16.2	23.2	22.4	17.2	14.0	10.3	4.9
15	1.6	.3	.4	2.7	[illegible]	16.1	23.2	22.4	17.1	14.1	9.[illegible]	5.0
16	.8	.3	.5	2.9	10.4	15.9	23.2	22.6	17.0	13.7	10.0	3.8
17	1.1	.2	.6	3.3	[illegible]	16.2	23.4	22.7	16.9	13.0	10.0	3.1
18	1.5	.4	.7	3.1	11.0	16.8	23.5	22.4	16.9	12.0	10.2	2.6
19	.9	.4	1.0	4.8	[illegible]	17.0	23.4	21.9	16.8	12.1	9.9	2.4
20	.1	.4	.9	5.3	[illegible]	17.0	23.4	21.6	16.8	12.5	9.8	.9
21	.7	.4	.8	4.5	[illegible]	17.3	23.7	21.4	16.8	12.7	9.6	.2
22	.2	.5	.9	4.3	[illegible]	18.0	23.8	21.4	16.4	12.9	9.1	1.3
23	.4	.5	1.1	4.5	[illegible]	18.8	23.9	21.3	16.3	12.9	9.2	1.1
24	.4	.6	1.0	5.1	14.0	19.7	24.0	21.4	16.0	13.0	8.7	2.0
25	.3	.7	1.2	5.2	[illegible]	18.5	23.6	21.5	14.8	13.2	7.7	3.0
26	.2	.7	.9	4.8	[illegible]	18.0	23.3	22.0	15.3	13.2	7.4	1.2
27	.3	.4	.4	**	[illegible]	20.2	23.2	21.9	15.7	12.9	8.1	1.8
28	.4	.5	.4	**	[illegible]	20.8	23.0	21.6	15.7	12.9	7.7	1.4
29	.3		.9	**	[illegible]	20.6	22.9	21.5	15.8	12.9	7.6	1.6
30	.2		1.4	**	[illegible]	18.5	23.1	20.9	15.8	11.6	7.6	2.1
31	.5		.7		[illegible]		23.3	20.4		11.7		1.5
MEAN	1.5	.4	.7	2.6	11.0	16.7	23.0	22.3	17.5	13.5	10.2	3.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0								4					0
24.0							1	2					5
													29
23.0							22	13					46
21.0						3	3	10					59
20.0						1	1	2	2				67
19.0									6				74
													82
17.0						5			8				90
16.0					3	5			5	2			103
15.0					3	8				9			118
14.0									1				139
13.0					1					9	4		152
12.0					4					9	9		166
11.0					2					2	4		181
10.0					2						6		187
8.00													195
7.0					1						25		207 198
					4								
6.0					3							4	214
4.0				5								5	222
3.0	3			2								4	241 232
				4								4	
2.0				7								7	258
1.0	9		4										
0.0	14 5	28	27	5								2	281 357
-1.0													357
-2.0													357

Station 2076, Temperatures, Lake Ontario at Olcott, New York, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
1	1.8	0.0	0.0			17.0			6.7	13.3	10.4	4.7
2	1.1	0.0	0.0	**	**	17.1	21.4	**	10.8	13.1	11.0	3.7
3	1.3	0.0	0.0	**	**	16.0	22.2	23.1	16.9	12.1	11.7	2.6
	1.3	0.0				17.1	21.7	22.9	18.1	14.0	12.7	2.9
	1.6	0.0	0.0	**	**	16.3	23.1	24.1	19.0	13.4	12.7	3.2
6	1.4	0.0	0.0	**	**	17.0	22.5	15.2	19.4	14.0	12.7	4.5
7	1.8	0.0	0.0	**	**	16.4	21.8	6.2	18.5	13.6	12.9	3.0
8	2.1	0.0	0.0	**	**	16.6	22.7	16.7	18.2	13.3	13.4	2.8
9	2.4	0.0	0.0	**	**	15.8	23.5	20.5	17.3	13.0	13.7	2.6
10	2.2	0.0	0.0	**	**	12.5	23.4	21.9	18.6	11.4	11.5	2.2
11	3.3	0.0	0.0	**	**	6.1	22.4	21.8	18.4	11.2	10.5	1.9
12	1.37	0.0	0.0	**	**	8.0	22.2	21.8	18.4	12.1	19.7	2.6
13	0.0	0.0	0.0	**	**	14.0	20.5	**	15.5	13.7	8.2	2.3
14		0.0	0.0	**	**	16.1	15.1	**	16.5	14.3		3.3
	0.0	0.0	0.0	**	**	15.5	**	**	17.4	14.3	6.2	5.7
16	0.0	.1	.1	**	**	16.1	**	**	17.3	13.8	7.1	4.4
17	0.0	.1	1.3	**	**	16.8	**	**	17.2	12.6	9.5	3.2
18		.1	1.9	**	**	18.8	**	**	15.5	13.5	9.0	.9
19	0.0	.1	2.8	**	**	18.9	**	**	13.2	9.5	9.6	
20	0.0	0.0	3.7	**	**	18.9	**	**	15.9	8.1	9.5	.2
21	.2	.2	3.6	**	**	16.1	**	**	15.7	10.0	9.3	0.0
22	.3	.7				14.2	**	**	15.3	12.1	7.2	0.0
23	0.0	1.4	3.4		16.1	18.3	**	**	16.5	12.5	6.5	0.0
24		1.4	3.2	**	16.1	20.7	**	**	15.8	12.4	6.9	.1
25	.1	1.5			12.2		**	**	13.0	12.1	6.6	.4
26	0.0	1.0	1.9	**	12.7	9.8	**	**	8.9	12.1	5.7	.2
27	0.0	0.0	1.7	**	16.0	5.4	**	**	11.3	11.6	5.1	0.0
28	0.0	.3	1.9	**	15.3	13.3	**	21.7	13.7	12.3	4.3	.5
29	0.0		2.3	**	15.9	19.2	**	20.6	14.5	12.3	5.0	.5
30	0.0		2.3	**	11.6	19.3	**	11.5	13.1	11.2	6.5	.8
31	.2		.7		15.9		**	6.4		10.7		.7
MEAN	.8	.2	1.2	2.1	14.8	16.5	21.6	18.2	15.6	12.3	9.2	1.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0								1					1
23.0							3	1					5
22.0							5	1					11
21.0							3						18
20.0						1	2						22
19.0						2			2				27
18.0						4			6				37
17.0						5			4				46
16.0					4	8		1	3				62
15.0					2	2	1	1	6				74
14.0						2			1	4			81
13.0						1			4	8	2		96
12.0					2	1				10	4		113
11.0					1			1	1	4	4		124
10.0									1	3	2		130
9.0						1				1	6		138
8.0						1			1	1	1		142
7.0											2		144
6.0						1		2	1		5		153
5.0						1					3	1	153
4.0											1	3	162
3.0	1		5									5	173
2.0	4		4	1								7	189
1.0	8	4	5									1	207
0.0	18	24	17									14	280
-1.0													280
-2.0													280

Station No. 2092, Temperatures, Niagara River at Lewiston, New York, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**		**	**	**	**	**	**	**	12.4	7.8
2		**	**	**	**	**	**	**	**	**	12.4	7.3
3	**	**	**	**		**	**	**	**	**	**	6.7
4	**	**	**	**	**	**	**	**	**	**	**	6.3
5	**	**	**	**	**	**	**	**	**	**	**	6.8
6	**	**	**	**	**	**	**	**	**	**	**	7.2
7	**	**	**	**	**	**	**	**	**	**	**	6.2
8	**	**	**	**	**	**	**	**	**	**	**	5.9
9		**	**	**	**	**	**	**	**	**	**	6.0
10	**	**	**	**	**	**	**	**	**	**	**	6.0
11	**	**	**	**	**	**	**	**	**	**	**	5.9
12	**	**	**	**	**	**	**	**	**	**	**	5.5
13		**	**	**	**	**	**	**	**	**	**	5.6
14	**	**	**	**	**	**	**		**	**	**	6.3
15	**	**	**	**	**	**	**	**	**	**	**	6.3
16	**	**	**	**	**	**	**	**	**	**	**	5.5
17	**	**	**	**	**	**	**	**	**	**	**	5.6
18	**	**	**	**	**	**	**	**	**	**	**	4.5
19	**	**	**	**	**	**	**	**	**	**	**	3.5
20	**	**	**	**	**	**	**	**	**	**	**	2.9
21	**	**	**	**	**	**	**	**	**	**	**	2.7
22	**	**	**	**	**	**	**	**	**	**	**	2.7
23	**	**	**	**	**	**	**	**	**	**	**	2.8
24	**	**	**	**	**	**	**	**	**	**	**	2.5
25	**	**	**	**	**	**	**	**	**	**	**	2.6
26	**	**	**	**	**	**	**	**	**	**	9.0	2.5
27	**	**	**	**	**	**	**	**	**	**	8.6	2.4
28	**	**	**	**	**	**	**	**	**	**	8.2	2.2
29	**		**	**	**	**	**	**	**	**	8.0	2.6
30	**		**	**	**	**	**	**	**	**	8.7	2.8
31	**		**		**		**	**		**		2.8
MEAN	**	**	**	**	**	**	**	**	**	12.6	9.6	4.7

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0										2	2		4
11.0													4
10.0													4
9.0										1			5
8.0										4			9
7.0											3		12
6.0											8		20
5.0											6		26
4.0											1		27
3.0											1		28
2.0											12		40
1.0													40
0.0													40
-1.0													40
-2.0													40

Station No. 3020, Temperatures, Lake Erie at Buffalo, New York, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.6	.9	.1	.2	7.9	18.7	20.9	24.6	21.4	16.5	11.9	7.1
2	2.2	1.3	.1	.5	8.0	18.5	22.1	25.1	21.2	16.0	11.7	6.3
3	2.0	1.4	.2	.4	8.8	18.4	22.8	25.2	21.0	15.3	12.0	5.4
4	2.0	1.4	.2	.1	8.5	18.4	23.2	25.1	21.0	15.3	12.3	5.3
5	1.8	1.2	.2	.1	8.7	18.2	23.4	25.1	20.8	15.7	12.7	5.7
6	1.8	1.0	.1	.2	8.7	18.0	23.7	24.4	20.6	15.7	12.8	5.7
7	1.9	.8	.1	.5	8.2	17.6	23.8	23.3	20.4	15.5	12.9	5.0
8	2.1	.1	.1	.7	8.0	17.1	24.2	22.9	20.3	15.1	13.0	5.3
9	2.3	.2	.2	.9	8.2	17.5	24.3	22.9	19.8	15.1	13.1	5.6
10	2.3	.2	.1	1.0	8.9	17.7	24.1	23.4	19.7	15.2	13.2	5.5
11	2.7	.1	.2	1.4	10.1	18.1	23.8	23.5	19.5	15.1	12.1	5.0
12	2.4	.1	.1	1.6	10.8	18.5	23.8	23.7	19.4	14.8	12.0	4.8
13	1.6	.2	.2	1.9	11.2	18.5	23.8	23.5	18.7	14.8	11.8	5.1
14	1.0	.2	.3	2.3	12.0	18.5	23.4	23.6	17.9	15.1	**	5.3
15	.7	.2	.2	2.6	11.8	18.8	23.6	23.5	17.9	15.3	**	5.2
16	.2	.2	.2	4.8	12.3	19.1	23.9	23.4	17.5	14.9	**	5.2
17	.1	.2	.3	3.9	13.0	19.5	24.0	23.4	17.7	14.5	**	4.9
18	0.0	.1	.4	3.9	13.0	20.0	24.2	23.5	17.6	13.8	10.1	4.4
19	.1	.1	.4	5.1	13.9	20.0	24.2	23.2	17.7	13.8	10.1	**
20	.5	.2	.5	6.3	14.4	19.5	24.2	23.2	17.9	13.7	10.3	**
21	.5	.3	.5	6.6	15.3	19.2	24.0	22.8	17.5	13.4	10.3	**
22	.5	.3	.5	6.3	15.5	19.6	24.2	22.5	17.0	13.7	9.4	**
23	.4	.4	.3	6.3	16.1	20.9	24.3	22.2	17.0	13.9	8.8	**
24	.2	.4	.5	8.5	16.7	22.1	24.4	22.0	16.9	14.1	8.7	**
25	.3	.3	.4	9.0	17.4	21.7	23.9	22.4	16.6	14.2	8.4	**
26	.3	0.0	.2	9.0	18.0	20.7	23.6	22.6	16.8	14.0	8.2	**
27	.2	0.0	.4	6.0	18.4	20.8	23.3	22.6	16.7	13.8	7.8	**
28	.2	.1	.6	6.8	18.6	21.1	23.1	22.7	16.5	13.9	7.3	**
29	.4		.6	7.8	18.1	21.3	23.4	22.6	16.5	13.7	7.4	**
30	.6		.1	7.8	18.2	20.9	23.8	22.3	16.5	12.9	7.6	**
31	.8		.1		18.6		24.1	21.8		12.5		**
MEAN	1.2	.4	.3	3.4	12.8	19.3	23.7	23.3	18.5	14.6	10.6	5.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0								4					4
24.0							12	2					18
23.0							16	12					46
22.0						1	2	12					61
21.0						3		1	4				69
20.0						6	1		4				80
19.0						5			4				89
18.0					6	11			1				107
17.0					1	4			10				122
16.0					2				7	2			133
15.0					2					11			146
14.0					1					7			154
13.0					3					9	3		169
12.0					2					2	7		180
11.0					2						3		185
10.0					2						4		191
9.0											1		192
8.0					9						4		205
7.0				2	1						4	1	213
6.0				8								1	222
5.0				2								13	237
4.0												3	240
3.0				2									242
2.0	10			3									255
1.0	4	4		4									267
0.0	17	24	31	9									349
-1.0													348
-2.0													348

Station No. 3079, Temperatures, Lake Erie at Marblehead, Ohio, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.8	.6	.4	2.9	9.7	**	24.1	26.3	18.2		**	**
2	.4	.3	.1	3.0	9.7	**	26.1	26.3	19.9	**	**	**
3	.5	.4	.1	2.5	9.0	**	25.0	26.3	20.2	**	**	**
4	.5	.3	.1	1.9	10.5	**	24.4	26.3	19.8	**	**	**
5	.5	.2	.2	1.8	10.9	**	25.3	25.4	18.8		[illegible]	4.7
6	.6	.2	.4	1.9	10.9	**	26.1	24.9	17.7	**	**	5.1
7	.7	.1	.2	2.5	12.5	18.1	25.7	26.0	18.4	**	**	4.2
8	.9	0.0	.1	3.0	12.2	18.7	26.0	26.3	18.4	**	[illegible]	3.9
9	1.4	.1	.1	2.9	12.4	19.2	25.9	26.3	18.4	**	**	3.8
10	1.5	.1	.1	[illegible]	13.3	19.4	26.1	26.3	17.1	**	**	3.2
11	2.4	.2	[illegible]	3.2	13.5	19.3	26.0	26.2	**	**	**	3.0
12	2.1	.2	.2	[illegible]	13.9	19.2	25.7	25.4	**	**	**	3.1
13	1.0	.2	.3	4.2	14.9	17.9	26.0	26.3	**	**	**	3.4
14	.2	.2	.1	4.4	13.9	17.7	26.0	26.3	**		**	4.4
15	.2	.2	.4	4.5	14.4	17.8	25.8	25.0	**	**	**	5.1
16	.1	.2	.5	5.2	15.7	19.5	25.9	5.1	**	**	**	4.7
17	.1	.2	.5	5.3	15.3	19.5	26.0	26.2	**	**	**	3.8
18	.1	.3	.7	5.6	15.8	19.9	24.1	26.3	**	**	**	1.4
19	.1	.3	1.4	6.3	15.5	22.0	22.5	26.3	**	**	**	1.0
20	.1	.4	2.3	6.5	15.5	23.3	21.8	26.1	**	**	**	1.7
21	.1	.5	2.3	7.5	16.7	23.7	25.5	24.3	**	**		.2
22	.1	.8	3.0	7.3	18.3	23.3	25.3	22.7	**	**	**	.5
23	.1	1.0	3.5	7.2	18.8	24.1	26.3	**	**	**	**	.5
24	.2	1.0	4.0	8.0	**	25.6	26.2	**	**	**	**	.8
25	.3	.8	3.7	8.2	**	25.7	24.9	**	**	**		.9
26	.2	.9	3.4	8.5	**	21.7	26.2	21.6	**	**	**	.3
27	.1	.8	3.0	7.8	**	22.6	25.2	21.4	**	**	**	.6
28	.2	.8	2.5	7.7	**	24.0	26.2	19.3	**	**	**	.8
29	.8		3.0	7.7	**	24.5	26.2	18.8	**	**		.9
30	.9		3.0	7.9	**	23.9	26.2	19.6	**	**	**	1.1
31	.9		2.4		**		26.3	17.1		**		.8
MEAN	.6	.4	1.4	5.1	13.6	21.3	25.5	24.4	18.7	**	**	

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0							17	15					32
25.0						2		4					45
24.0						3	4	2					55
23.0						4							59
22.0						2	1	1					63
21.0						1	1	2					67
20.0									1				68
19.0						7		1	2				79
18.0					2	2		1	5				89
17.0						3			2				95
16.0					1								96
15.0					5								101
14.0					2								103
13.0					4								107
12.0					3								110
11.0													110
10.0					3								113
9.0					3								116
8.0				3									119
7.0				7									126
6.0				2									128
5.0				3								2	133
4.0			1	3								4	141
3.0			7	5								7	160
2.0	2		4	4									170
1.0	3	2	1	3								4	183
0.0	26	26	18									10	263
-1.0													263
-2.0													263

Station No. 4096, Temperatures, St. Clair River at Port Huron, Michigan, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	21.3	21.4	15.8	14.7	10.2	6.5
2	**	**	**	**	**	**	20.4	21.8	16.4	13.5	11.1	5.7
3	**	**	**	**	**	**	20.8	21.9	18.2	13.0	11.7	5.1
4	**	**	**	**	**	**	21.8	22.2	18.1	13.3	12.1	4.8
5	**	**	**		**	**	22.2	21.2	17.5	13.6	12.0	5.7
6	**	**	**	**	**	**	21.8	19.6	16.9	13.8	12.2	5.0
7	**	**	**	**	**	**	21.6	19.8	17.4	13.8	12.5	3.8
8	**	**	**	**	**	**	21.4	20.5	17.4	13.9	12.5	4.6
9	**	**	**	**	**	**	21.8	20.7	17.1	13.8	12.4	4.6
10	**	**	**	**	**	**	21.4	21.1	16.9	14.2	12.1	4.2
11	**	**	**	**	**	**	20.9	21.3	17.1	14.0	11.2	3.6
12	**	**	**	**	**	**	20.1	21.5	16.7	13.8	11.1	3.5
13	**		**		**	**	19.6	21.5	16.0	14.0	10.2	4.2
14	**	**	**	**	**	**	19.4	21.5	15.7	14.5	8.1	5.1
15	**	**	**	**	**	**	18.7	21.3	15.6	14.5	7.9	5.4
16	**	**	**	**	**	**	19.1	21.3	15.8	13.9	8.7	4.5
17	**	**	**	**	**	**	19.1	21.8	16.0	13.0	9.3	3.7
18	**	**	**	**	**	**	18.2	21.8	16.0	11.0	9.7	2.1
19	**	**	**	**	**	**	15.5	21.4	16.2	10.9	9.8	1.2
20	**			**	**	**	18.3	21.4	16.2	11.4	9.9	1.0
21	**	**	**	**	**	**	19.3	20.8	15.8	11.8	9.5	-.1
22	**	**	**	**	**	**	19.2	20.5	15.3	12.2	8.3	-.2
23	**	**	**	**	**	**	19.7	20.1	15.1	12.8	7.8	-.2
24	**			**	**	**	16.6	20.3	14.5	13.2	7.7	-.2
25	**	**	**	**	**	**	15.8	20.4	13.5	13.0	7.6	-.1
26	**	**	**	**	**	**	15.7	20.2	13.7	12.5	7.0	-.1
27	**	**	**	**	**	**	16.2	20.3	14.1	12.2	6.8	0.0
28	**		**	**	**	19.6	17.5	20.4	14.6	12.2	6.6	.5
29	**		**	**	**	19.3	18.9	20.2	14.8	10.9	6.7	.8
30	**		**	**	**	20.6	19.4	20.0	14.9	9.8	7.8	0.0
31	**		**		**		20.6	19.4		9.5		.5
MEAN	**	**	**	**	**	19.8	19.4	20.9	16.0	12.9	9.7	2.8

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0							1	1					2
21.0							7	15					24
20.0								12					42
						1	8						55
18.0						2	4	3	2				61
17.0							1		5				67
									[illegible]				78
16.0							2		7				88
14.0							3		5	6			99
13.0									2	13	7		114
12.0										5	4		126
11.0										2			133
10.0										2	2		137
8.0											5		144
7.0											3		147
											6	1	153
6.0											3	6	157
4.0												6	163
3.0												4	169
													173
2.0												1	174
1.0												2	176
0.0												5	181
-1.0												6	187
-2.0													187

Station No. 5014, Temperatures, Lake Huron at Harbor Beach, Michigan, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	*	*	**	**	8.3	*	*	**	22.7	**	15.8	8.6	4.3
2	**	**	*	*	*	*	6.2	**	**	22.0	*	*	14.6	9.4	3.8
3	**	**	*	*	*	*	8.2	**	**	22.6	**	13.0	10.5	4.9
4	**	**	**	**	9.1	**	**	23.1	16.6	13.7	11.3	2.9
5	*	*	**	**	**	8.9	**	**	22.8	16.9	14.0	12.0	2.8
6	**	*	*	**	**	9.7	**	**	21.8	17.7	14.4	11.7	4.2
7	*	*	*	*	*	*	10.7	**	**	21.6	17.9	14.7	12.1	3.2
8	**	*	*	**	**	10.5	**	**	22.1	17.6	14.6	12.0	2.6
9	**	**	**	**	11.1	**	**	20.5	17.2	14.9	12.3	2.3
10	**	**	*	9.7	**	**	21.1	16.7	14.4	12.1	2.3
11	**	**	**	**	7.9	**	**	21.8	15.4	14.4	10.5	2.2
12	**	**	**	**	8.4	**	**	22.6	14.3	14.8	10.3	1.8
13	**	**	**	2.9	9.6	**	**	21.8	14.8	10.3	1.8
14	**	**	**	2.8	9.9	**	**	20.8	14.6	15.7	7.6	3.8
15	*	**	**	3.8	9.1	**	**	22.0	14.6	15.4	6.1	5.3
16	**	**	**	4.7	9.4	**	**	22.3	15.6	15.1	6.2	4.1
17	**	**	*	*	6.0	9.1	**	**	21.8	16.7	14.9	5.5	3.0
18	**	**	**	5.4	9.6	**	**	21.6	17.0	12.9	8.0	3.7
19	**	**	**	5.8	9.9	**	**	21.6	16.9	12.1	8.4	1.0
20	**	*	*	**	6.5	10.8	**	**	21.2	15.4	11.7	8.5	.6
21	**	**	**	6.7	10.1	**	**	20.9	15.6	12.2	8.2	.8
22	*	*	**	**	6.5	8.1	**	*	*	20.8	15.1	13.2	7.5	2.6
23	**	*	*	**	7.0	8.8	**	*	*	19.3	15.5	13.4	6.4	1.2
24	*	*	**	**	6.6	10.4	**	16.8	**	15.2	13.7	6.4	.6
25	**	**	*	*	7.2	9.0	**	19.2	**	14.9	13.8	5.7	.5
26	**	*	*	**	7.8	**	**	20.0	**	14.3	12.8	5.6	.8
27	**	**	**	7.9	*	*	**	19.2	*	*	14.7	12.0	4.2	1.5
28	**	**	**	8.6	**	**	20.2	*	*	15.2	11.8	4.4	.6
29	**		**	9.1	**	**	21.5	**	15.6	11.8	4.1	.9
30	**		**	8.8	**	**	21.3	**	15.8	9.5	5.6	1.7
31	**		**		**		22.2	**		8.6		2.7
MEAN	**	**	**	6.3	9.4	**	20.0	21.7	15.9	13.5	8.4	2.4

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													
24.0													0
23.0							1	1					1
22.0							2	8					10
21.0								9					21
20.0							2	4					27
19.0							2	1					30
18.0													30
17.0									5				35
16.0							1		6				42
15.0							1		9	4			55
14.0									7	11			73
13.0										6			79
12.0										6	5		89
11.0					1						2		95
10.0					5					1	1		104
9.0				1	11					1	5		118
8.0				2	7					1	1		133
7.0				4	1					1	5		140
6.0				5							2		
5.0				1							0	1	151 155
4.0				1							3	5	164
3.0												8	170
2.0													
1.0				2								6	180 186
0.0												7	193
-1.0													193
-2.0													193

Station No. 5080, Temperatures, Lake Huron at Mackinaw City, Michigan, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.6	0.0	0.0	.3	4.8	**	16.4	21.0	14.4	13.2	8.7	3.8
2	1.2	0.0	0.0	.5	4.7	**	18.4	21.0	15.4	12.5	9.1	3.7
3	1.2	0.0	0.0	.1	4.8	**	19.0	21.3	16.2	12.1	8.6	3.8
4	1.1	0.0	0.0	.1	4.6	**	19.0	21.3	16.4	12.0	8.7	**
5	1.2	0.0	0.0	.2	4.6	**	19.4	21.4	16.5	11.8	8.7	**
6	.9	0.0	0.0	.1	4.7	**	19.8	21.0	15.8	11.7	8.7	**
7	1.0	0.0	0.0	.1	5.0	**	19.8	20.8	15.5	11.6	8.6	**
8	1.1	0.0	0.0	.1	5.0	11.5	20.0	20.9	15.0	11.5	8.5	**
9	1.2	0.0	0.0	0.0	**	12.5	19.8	19.0	15.0	11.6	8.5	3.1
10	1.2	0.0	0.0	.1	6.0	11.8	19.5	19.2	14.8	11.5	8.5	3.1
11	1.5	0.0	0.0	.1	6.3	11.1	18.5	19.5	15.5	11.3	8.5	3.1
12	1.0	0.0	0.0	0.0	6.6	10.2	16.3	20.1	14.8	11.2	8.5	3.1
13	.3	0.0	0.0	.5	6.6	9.9	15.3	20.2	14.3	9.8	8.5	3.1
14	.6	0.0	0.0	.4	6.7	10.7	15.9	20.0	13.9	8.9	8.5	3.1
15	.3	0.0	0.0	.5	7.2	11.1	16.6	20.0	14.2	9.0	8.3	3.1
16	0.0	0.0	0.0	1.1	7.6	10.5	17.3	20.6	14.4	9.0	8.0	3.1
17	0.0	0.0	0.0	1.2	7.8	10.9	17.6	20.7	14.5	8.9	8.1	**
18	0.0	0.0	0.0	.5	7.6	10.7	18.3	20.3	14.3	9.0	8.2	**
19	0.0	0.0	0.0	.4	8.5	11.3	18.3	20.0	13.7	9.0	8.2	**
20	0.0	0.0	0.0	.7	7.6	12.3	18.9	19.6	14.1	9.0	8.3	**
21	0.0	0.0	0.0	.9	8.7	11.6	19.3	18.8	14.0	9.0	8.3	**
22	0.0	0.0	0.0	1.6	8.8	12.3	19.5	17.9	13.7	9.0	8.1	**
23	0.0	0.0	0.0	2.1	9.9	13.6	19.9	15.7	13.7	9.0	8.1	**
24	0.0	0.0	0.0	2.3	9.7	14.6	18.2	13.3	13.6	8.9	8.2	**
25	0.0	0.0	0.0	2.1	9.0	14.3	17.8	16.5	13.3	8.2	8.5	**
26	0.0	0.0	0.0	2.9	9.4	12.6	17.5	17.7	12.8	8.1	**	**
27	0.0	0.0	0.0	3.6	9.9	13.0	19.3	18.7	13.2	8.1	**	**
28	0.0	0.0	0.0	4.0	10.2	14.2	19.0	18.4	13.3	8.1	4.0	**
29	0.0		0.0	4.5	11.0	15.2	19.1	16.8	13.7	8.1	3.9	**
30	0.0		0.0	5.1	**	15.4	19.2	15.4	13.5	8.1	3.9	**
31	0.0		0.0		**		19.7	13.7		8.0		**
MEAN	.5	0.0	0.0	1.2	7.3	12.2	18.5	19.1	14.4	9.9	8.0	3.3

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													
25.0													0
24.0													
23.0													0
22.0													0
21.0								6					6
20.0							1	10					17
19.0							15	4					36
18.0							6	3					45
17.0							4	2					51
16.0							3	2	3				59
15.0						2	2	2	6				71
14.0						3			10				84
13.0						2		2	10	1			99
12.0						4			1	7			107
11.0					1	6				8			122
10.0					1	5							128
9.0					5	1				9	1		144
8.0					3					10	24		181
7.0					5								186
6.0					5								191
5.0				1	2								194
4.0				2	6						1		203
3.0				1							2	11	217
2.0				4									221
1.0	11			3									235
0.0	20	28	31	19									333
-1.0													333
-2.0													333

Station No. 7056, Temperatures, Lake Michigan at Oak Creek, Wisconsin, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.0	.4	.3	2.3	7.0	9.9	14.2	10.2	17.1	12.8	8.4	2.6
2	2.4	.5	0.0	1.3	5.8	10.6	13.0	10.1	17.5	12.5	8.9	3.0
3	3.0	1.0	.1	1.4	5.7	10.2	13.1	8.9	17.8	12.9	8.9	1.9
4	2.2	1.0	.1	1.3	6.9	9.2	18.3	8.5	18.2	12.8	8.7	2.4
5	3.4	.4	1.0	1.6	7.7	9.5	19.1	13.5	18.0	12.8	8.0	3.6
6	2.8	.2	1.4	1.8	8.1	10.7	12.2	16.8	17.9	13.0	8.7	3.1
7	3.1	.8	1.0	2.2	7.6	10.2	14.0	16.6	18.0	13.1	7.9	2.9
8	1.8	.2	.1	3.5	8.1	10.6	16.3	16.2	17.9	13.0	7.5	2.6
9	2.7	1.4	.2	3.5	8.0	11.4	19.1	13.8	17.7	11.6	8.2	1.9
10	4.7		.3	2.6	8.8	12.3	18.6	14.9	18.0	10.4		2.3
11	2.9	.2	1.6	2.7	7.4	12.1	18.2	16.0	17.8	11.1	7.8	5.2
12	.8	0.0	1.1	2.7	8.3	9.3	18.5	16.3	17.1	12.0	6.8	5.2
13	1.0		.7	3.4	8.3	8.9	19.0	15.5	16.8	11.3	6.8	4.2
14	.9	.1	.6	3.6	7.0	10.0	18.6	16.9	16.7	10.1	6.8	4.9
15	1.4	.3	.7	3.6	7.3	9.0	18.1	18.0	16.8	8.9	6.2	4.1
16	.6	.2	.9	3.9	7.3	7.7	15.2	18.1	16.8	9.4	6.4	2.8
17	2.3	.1	.9	5.1	8.4	7.9	14.1	16.1	16.9	11.3	6.4	1.3
18	1.3	0.0	2.4	5.5	7.4	7.9	11.3	18.2	14.8	11.6	6.2	-.1
19	.4	.2	2.8	5.0	6.8	8.9	7.9	18.6	13.4	10.4	5.9	.9
20	1.7	3.6	2.8	5.3	6.8	11.3	8.4	17.8	11.1	10.9	6.6	1.0
21	1.6		4.4			12.3	10.3	13.3	9.7	11.3	5.3	.3
22	.3	.4	3.4	6.0	6.6	9.7	9.6	16.5	10.2	11.6		1.0
23	1.8	2.3	2.9	6.7	7.8	8.2	11.2	16.9	12.1	11.3	4.8	.4
24	2.5	4.8	4.2	7.1	7.9	7.1	7.7	16.0	13.3	12.0	4.9	2.6
25	1.7	1.2	3.6	6.8	7.0	11.4	10.1	15.0	11.3	11.6	4.0	.8
26	.7	.8	2.1	7.0	**	12.7	11.5	16.9	12.8	11.2	3.4	.3
27	.2	2.0	5.4	8.2	"	12.9	8.9	18.5	12.3	10.7	3.3	.2
28	.2		4.2	8.2	**	12.3	10.7	17.8	12.7	9.6	5.5	.6
29	.8		2.0	6.9	8.5	15.2	10.1	16.5	13.3	10.4		.2
30	.3		1.5	6.2	9.7	16.0	9.0	17.3	13.0	10.5	4.2	.1
31	.3		2.4		9.7		8.3	17.3		10.0		.1
MEAN	1.7	.8	1.8	4.3	1.6	10.5	13.3	15.6	15.2	11.4	6.4	2.5

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0							3						3
18.0							6	5	4				18
17.0								4	8				30
16.0						1		12	5				49
15.0						1	11	2					53
14.0							3	1	1				58
13.0							2	3	4	3			70
12.0						3	1		4	7			88
11.0						6	3		2	10			106
10.0							4	2	1	8			127
9.0					3	6	1		1	2	2		142
8.0				1	6	3	4	2		1	5		154
7.0				3	13	4	2				4		190
6.0				5	5						7		207
5.0			3	4	1						5	1	219
4.0	1		2	4							4	3	232
3.0	3	1									3	4	249
2.0	8	2	6	6								7	279
1.0	8	5	12	5								5	308
0.0	11	20										10	361
-1.0												1	362
-2.0													362

Station No. 9007, Temperatures, Lake Superior at Whitefish Point, Michigan, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	**	**	**	**	**	**	**	**	**	**	**	**
2	**	**	**	**	**	**	**	**	**	**	**	**
3	**	**	**	**	**	**	**	**	**	**	**	**
4	**	**	**		**	**	**	**	**	**	**	**
5	**	**	**	**	**	**	**	**	**	**	**	**
6	**	**	**	**	**	**	**	**	**	**	**	**
7	**	**	**	**	**	**	**	**	**	**	**	**
8	**	**	**		**		**	**	**	**	**	**
9	**	**	**	**	**	**	**	**	**	**		**
10	**	**	**	**	**	**	**	**	**	**	**	**
11	**	**	**	**	**	**	**	**	**	**	**	**
12	**	**	**		**		**	**	**	**	**	**
13	**	**	**	**	**	**	**	**	**	**		**
14	**	**	**	**	**	**	**	**	**	**	**	**
15	**	**	**	**	**	**	**	**	**	**	**	**
16	**	**	**		**		**	**	**	**	**	**
17	**	**	**	**	**	**	**	**	**	**	**	**
18	**	**	**	**	**	**	**	**	**	**	**	**
19	**	**	**	**	**	**	**	**	**	**	**	**
20	**	**	**	**	**		**		**	**	**	**
21	**	**	**	**	**	**	**	**	**	**	**	**
22	**	**	**	**	**	**	**	**	**	**	**	**
23	**		**		**	**	**	**	**	**	**	**
24	**	**	**	**	**	**	**		**	**	**	**
25	**	**	**	**	**	**	**	**	**	**	**	**
26	**	**	**	**	**	**	**	**	**	**	**	**
27	**		**		**	**	**	**	**	**	**	**
28	**	**	**	**	**	**	**		**	**	**	**
29	**		**	**	**	**	**	**	**	**	**	**
30	**		**	**	**	**	**	**	**	**	**	**
31	**		**		**		**	**		**		**
MEAN	**	**	**	**	**	**	**	**	**	**	**	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0													0
19.0													0
18.0													0
17.0													0
16.0													0
15.0													0
14.0													0
13.0													0
12.0													0
11.0													0
10.0													0
9.0													0
8.0													0
7.0													0
6.0													0
5.0													0
4.0													0
3.0													0
2.0													0
1.0													0
0.0													0
-1.0													0
-2.0													0

Station No. 9040, Temperatures, Lake Superior at Calumet, Michigan, 1975

Daily Mean Water Temperature

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.3	0.0	0.0	0.0	5.9	11.7	16.2	19.8	**	**	8.1	**
2	.2	0.0	0.0	0.0	6.3	11.8	17.0	20.2	**	**	8.1	* *
3	.2	0.0	0.0	0.0	6.1	11.8	17.0	20.4	**	**	8.5	**
4	.2	0.0	0.0	0.0	6.1	11.6	17.0	19.8		**	8.1	**
5	.2	0.0	0.0	0.0	7.0	9.0	16.8	19.4	**	**	8.6	**
6	.2	0.0	0.0	0.0	7.2	9.6	16.9	18.3	**	**	8.8	* *
7	.2	0.0	0.0	0.0	6.8	9.9	16.8	18.1	**	**	9.0	**
8	.2	0.0	0.0	0.0	6.7	11.5	18.4	19.3		**	9.2	**
9	.2	0.0	0.0	.1	6.6	11.0	19.6	19.8	**	**	8.7	**
10	.2	0.0	0.0	.2	6.9	9.1	18.8	19.7	**	**	7.9	**
	.1	0.0	0.0	.8	7.3	8.2	17.8	19.6	**	**	7.2	* *
	.1	0.0	0.0	1.5	6.6	8.9	15.8	19.5		**	6.1	**
	.1	0.0	0.0	2.2	7.5	10.3	15.6	19.4	**	**	4.7	**
	0.0	0.0	0.0	2.3	7.6	12.0	16.2	19.2	**	**	4.2	**
	0.0	0.0	0.0	2.4	6.7	10.6	17.7	19.1	**	**	4.6	**
	0.0	0.0	0.0	1.9	7.4	11.1	19.1	19.1		**	5.3	**
	0.0	0.0	0.0	2.4	8.1	11.5	19.5	18.8	**	10.7	5.7	**
	0.0	0.0	0.0	2.3	9.2	11.1	19.5	17.8	**	10.4	5.8	**
19	0.0	0.0	0.0	1.8	8.9	12.1	20.5	16.2	**	10.1	6.1	**
20	0.0	0.0	0.0	2.0	8.0	10.2	18.9	16.7		8.4	4.1	**
21	0.0	0.0	0.0	2.5	8.2	8.9	17.9	17.9	**	8.2	3.4	**
22	0.0	0.0	0.0	4.5	9.4	11.3	18.7	17.5	**	8.1	3.0	**
23	0.0	0.0	0.0	4.3	7.9	13.8	17.9	14.5	**	10.1	1.8	**
24	0.0	0.0	0.0	4.2	8.0	12.1	17.3	**	**	10.2	**	**
25	0.0	0.0	0.0	5.0	9.5	11.7	17.6	**	**	9.6	**	* *
26	0.0	0.0	0.0	5.3	8.5	10.8	18.3	**	**	8.6	**	**
27	0.0	0.0	0.0	4.9	10.2	12.1	18.9	**	**	8.3	**	**
28	0.0	0.0	0.0	4.3	9.9	12.5	18.4	**	**	8.2	**	**
29	0.0		0.0	4.0	9.3	11.5	19.1	**	**	7.2	**	**
30	0.0		0.0	4.6	9.9		20.3	**	**	5.9	**	**
31			0.0		11.3		20.1	**		6.7		**
MEAN	.1	0.0	0.0	2.1	7.9	11.0	18.1	18.7	**	8.7	6.4	**

Frequency Distribution

CELSIUS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAYS
26.0													0
25.0													0
24.0													0
23.0													0
22.0													0
21.0													0
20.0							3	2					
19.0							5	12					22
18.0							7	3					32
17.0							9	3					44
16.0							5	2					51
15.0							2						53
14.0								1					54
13.0						2							56
12.0						5							61
11.0					1	12							74
10.0					1	4				5			84
9.0					6	4				1	2		97
8.0					6	3				6	7		119
7.0					7					1	2		129
6.0					9					1	2		141
5.0				2	1					1	3		148
4.0				7							4		159
3.0											2		161
2.0				7									168
1.0				3							1		172
0.0	31	28	31	11									273
-1.0													273
-2.0													273