CLIMATIC DATA FOR WILLIAMS LAKE, HUBBARD COUNTY, MINNESOTA, 1983

By
A.M. Sturrock, D.O. Rosenberry, L.G. Engelbrecht,
W.A. Gothard, and T.C. Winter

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WILLIAM P. CLARK, Secretary

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Dallas L. Peck, Director

For additional information
write to:

Thomas C. Winter
U.S. Geological Survey, MS 413
Box 25046, Denver Federal Center
Denver, CO 80225

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CONVERSION FACTORS

<u>MULTIPLY</u>	<u>BY</u>	<u>TO OBTAIN</u>
centimeter	.394	inch
millibar	.0145	pounds per square inch
millibar	1.0197	grams per square centimeter
mile per hour	1.609	kilometer per hour
calories per square centimeter per day	278.96	watts per square meter
calories per square centimeter per day	25.913	watts per square foot

°C CONVERSION EQUATION FOR DEGREES FAHRENHEIT TO CENTIGRADE:

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32) \text{ or } ^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32$$

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ABSTRACT

Research on the hydrology of Williams Lake, north-central Minnesota includes study of evaporation. Presented here are those climatic data needed for energy-budget and mass-transfer studies, including: water-surface temperature, dry-bulb and wet-bulb air temperatures, wind speed, precipitation, and solar radiation. Data are collected at raft and land stations.

INTRODUCTION

Climatic data are being collected at Williams Lake, Hubbard County, Minnesota, as part of a continuing study by the U.S. Geological Survey of the hydrology of the lake. Williams Lake is one of several lakes in different parts of the United States that have been selected for intensive study of hydrological and related chemical and biological processes. The rationale for selection of Williams Lake is given by Siegel and Winter (1980).

DATA COLLECTION AND PRESENTATION

Data presented here are being collected principally for studies of evaporation. Therefore, the period of record includes only the time when the lake is ice-free. The period of record for 1983 is from May 30 (Julian day 150) through October 26 (Julian day 299), 1983. Although data were collected before and after these dates (the raft was placed on the lake May 5), the interval from day 150 to 299 is the part of the year for which evaporation will be determined by the energy-budget method. Within each table, the data are grouped into energy-budget periods; the periods are defined by the dates thermal surveys were made in the lake. For example, the first energy-budget period is day 150 through day 167.

Climatic instruments are located on a raft in the middle of the lake and at a land station. Instruments on the raft include anemometers at 1, 2, and 4 meters above the water surface, a thermistor psychrometer with wet and dry-bulb temperature sensors fixed at 2 meters above the water surface, and a water-temperature sensor located beneath the raft at a water depth of about 1 centimeter. Data from the above sensors are recorded by a Campbell CR-21 ^{1/} digital data logger located on the raft. The data logger scans the sensors every minute and calculates an hourly average. In addition, for selected sensors, maximum and minimum values and the time they occur are saved and recorded at midnight of each day. Additional analog instruments for measuring water-surface temperature and wind speed also are located on the raft. These are used to backup the primary instruments for quality control and for filling in missing data.

^{1/} The use of brand names in this report is for identification only, and does not constitute endorsement by the U.S. Geological Survey.

The land station consists of long- and short-wave radiometers, an anemometer at 2 meters above the land surface, a thermistor psychrometer also at 2 meters above land surface, and a tipping-bucket rain gage. These data also are recorded by a digital data logger that operates similarly to that on the raft. Backup instruments include an analog hygrothermograph, a digital hygrothermograph, and a manually-read rain gage.

Calibration checks with independent laboratory thermometers and motorized psychrometers are made every few days at both stations.

Data presented here are daily summaries. For periods that the primary instruments were not operating properly, daily values were obtained by regression using data from backup instruments, provided a good statistical relationship could be established. Data used to establish regressions were selected so they bracketed the period of missing or inadequate data. Only table 1, which is considered to be the primary source of data for evaporation studies, includes values obtained by regression. These are noted by footnotes, and the regressions referred to are as follows:

REGRESSION 1	DATA POINTS	R ² VALUE
$Y = 0.641 + 0.959x$	25	0.989
REGRESSION 2		
$Y = -1.020 + 1.354x$	23	0.913

Vapor pressure of water (e_0) is calculated using water-temperature data and assuming the air is completely saturated at the air-water interface.

Although only daily values are reported here, hourly values also were recorded. Hourly values are voluminous and expensive to reproduce, but they are available for all or part of the period of record on request.

ACKNOWLEDGEMENTS

We are especially indebted to Ken Chase for allowing us to place climatic instruments on his property. The Minnesota Department of Natural Resources, Division of Waters, provided funding for part of the instrumentation at Williams Lake.

REFERENCE

Siegel, D. I. and Winter, T. C., 1980, Hydrologic Setting of Williams Lake, Hubbard County, Minnesota: U.S. Geological Survey Open-File Report 80-403, 56 p.

Table 1. Raft station—daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation.

[c, degrees celsius; mb, millibars; mph, miles per hour; in, inches; cal/cm²/day, calories per square centimeter per day]

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EQ (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	LAND DRY BULB AIR TEMP (C)	LAND WET BULB AIR TEMP (C)	LAND VALUE OF EA (mb)	BOWEN RATIO
150.	14.620	10.990	8.700	16.676	9.804	11.020	8.560	9.859	.318
151.	14.940	12.740	8.070	16.980	9.869	12.950	8.900	8.796	.160
152.	15.650	13.720	9.640	17.773	9.357	12.000	8.748	8.707	.135
153.	16.120	15.300	11.660	18.315	11.310	15.330	11.420	10.972	.062
154.	16.300	14.790	11.960	18.621	12.150	14.840	11.690	11.705	.145
155.	15.440	12.130	10.220	18.693	11.227	11.710	9.680	10.563	.339
156.	16.100	10.400	7.164	18.305	8.001	10.520	6.920	7.652	.323
157.	16.250	14.240	8.200	18.468	6.992	13.440	7.440	6.472	.103
158.	17.010	14.210	8.830	19.302	7.888	13.600	7.990	7.179	.143
159.	17.520	15.980	12.300	20.017	11.767	15.450	11.470	10.972	.110
160.	18.660	15.300	11.410	21.504	10.976	14.610	10.520	9.947	.188
161.	18.700	18.400	15.570	21.558	15.805	18.730	15.560	15.618	.031
162.	19.440	21.610	18.100	22.577	18.548	22.040	18.200	18.387	-.302
163.	19.810	20.430	19.000	23.102	21.037	20.520	18.730	20.436	-.177
164.	19.940	20.330	18.370	23.209	19.844	20.530	18.040	19.068	11 [-.067
165.	19.490	13.920	13.720	22.647	15.562	13.850	13.130	14.634	.462
166.	18.730	11.100	10.560	21.585	12.343	10.990	9.750	11.272	.480
167.	18.120	11.630	9.560	20.788	10.586	11.740	9.170	9.943	.374

DATE	RAFT WIND MPH	RAFT WIND GPH	RAFT WIND MPH	LAND WIND MPH	FRECIPI. LAND STATION (in)	BOLAR SHORT WAVE (cal/cm ² /day)	BOLAR LONG WAVE (cal/cm ² /day)
150.	5.763	4.555	7.421	3.344	0.000	384.700	634.000
151.	3.143	3.843	4.255	2.362	0.000	644.600	509.800
152.	2.744	3.235	3.250	1.982	0.000	431.700	700.800
153.	3.103	3.686	3.599	1.794	0.000	418.500	638.700
154.	4.604	4.701	5.213	3.398	.690	566.600	653.000
155.	4.731	5.448	6.254	3.697	.020	293.600	643.000
156.	4.697	5.399	6.151	3.277	0.000	865.100	573.600
157.	6.549	7.379	8.690	5.570	0.000	718.900	502.900
158.	3.892	3.520	3.699	2.402	0.000	714.400	542.400
159.	4.562	5.337	5.902	3.023	.010	522.800	575.300
160.	2.106	2.707	2.707	2.190	0.000	686.800	576.800
161.	6.404	7.475	7.925	3.117	.370	459.500	710.000
162.	7.435	8.060	8.520	2.641	.070	531.700	723.400
163.	8.050	8.820	9.250	2.842	.830	222.400	653.200
164.	7.698	8.310	8.850	3.770	2.600	200.500	744.000
165.	3.067	4.455	4.770	2.757	1.440	172.100	731.700
166.	7.646	8.150	9.070	6.409	.010	291.300	659.300
167.	5.216	5.790	6.500	3.914	0.000	522.600	631.900

Table 1. Raft station--daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation. [continued]

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER ED	VAPOR PRESSURE ATMOSPHERE EA	LAND DRY BULB AIR TEMPERATURE	LAND WET BULB AIR TEMPERATURE	LAND VALUE OF EA	BOWEN RATIO
169.	19.340	14.000	10.670	22.437	10.692	13.870	9.950	9.711	.267
169.	19.340	14.180	13.370	22.437	13.522	16.020	12.830	12.746	.208
170.	19.520	18.920	16.020	22.831	16.320	19.650	16.230	16.228	.063
171.	20.180	20.130	18.160	23.637	19.562	20.640	18.130	19.172	.007
172.	20.630	21.170	19.660	24.303	21.906	21.450	19.530	21.455	-.132
173.	21.610	22.480	19.460	25.810	20.641	22.560	19.070	19.794	-.099
174.	23.160	20.670	16.380	28.361	15.842	20.770	16.130	15.321	.117
175.	23.380	21.600	19.740	28.740	21.792	21.720	19.530	21.279	.151
176.	23.920	25.330	21.350	29.690	22.009	25.360	21.220	22.504	-.120
177.	24.520	21.440	18.310	30.777	19.005	21.780	18.380	18.922	.154
178.	23.970	15.900	12.560	29.779	12.390	16.120	12.380	11.962	.273
179.	23.580	15.400	11.570	28.567	11.150	15.490	11.370	10.793	.266
180.	22.270	14.770	13.650	26.870	14.896	14.760	13.350	14.407	.368
181.	21.830	19.610	17.680	26.159	18.968	19.440	17.120	18.013	.181
182.	22.400	18.840	16.490	27.216	17.229	18.760	15.900	16.207	.214
183.	22.560	18.810	17.910	27.348	19.932	18.740	17.370	18.940	.297
184.	22.120	18.670	17.960	26.626	20.119	18.500	17.450	19.240	.312
185.	21.160	14.770	13.180	25.418	14.121	14.480	12.530	13.259	.343
186.	21.510	13.290	10.520	25.653	10.925	13.170	9.870	10.045	.320
187.	21.040	20.200	17.280	26.175	17.822	20.550	16.960	16.993	.115

DATE	RAFT WIND MPH	RAFT WIND MPH	RAFT WIND MPH	LAND WIND MPH	PRECIP. LAND STATION	SOLAR SHORT WAVE	SOLAR LONG WAVE
169.	1.772	2.327	2.116	1.823	0.000	722.500	1406.100
169.	5.503	6.691	7.159	2.888	0.000	615.600	694.800
170.	6.959	8.320	8.990	3.404	0.000	581.800	743.900
171.	6.039	7.454	8.145	2.924	0.000	378.900	796.700
172.	5.571	6.642	7.089	2.490	.350	331.900	815.400
173.	6.677	7.705	8.590	5.442	0.000	690.200	771.900
174.	1.585	2.080	1.778	2.050	0.000	710.500	740.200
175.	4.286	5.072	5.247	2.100	.210	384.800	007.600
176.	7.461	8.000	8.350	3.855	0.000	629.000	806.700
177.	2.580	3.137	3.116	1.765	.260	473.100	775.300
178.	4.180	5.032	5.447	5.151	0.000	689.400	642.600
179.	3.560	4.518	4.027	3.697	0.000	697.200	635.400
180.	5.516	6.676	7.479	4.629	.760	84.580	782.000
181.	5.604	6.232	6.720	4.139	.420	482.800	777.100
182.	3.307	3.777	3.965	2.806	0.000	640.200	730.900
183.	4.953	5.981	6.445	3.247	3.560	264.700	805.900
184.	4.055	4.645	4.772	2.850	.120	219.600	796.600
185.	7.090	8.660	9.750	5.816	.110	350.900	721.800
186.	2.710	3.259	2.965	2.296	0.000	722.000	632.300
187.	6.156	6.996	7.272	2.366	0.000	678.000	749.300

Table 1. Raft station--daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation. [continued]

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EO	VAPOR PRESSURE ATMOSPHERIC EA	LAND DRY BULB AIR TEMPERATURE	LAND WET BULB AIR TEMPERATURE	LAND VALUE OF EA	BOWEN RATIO
100.	22.330	24.440	20.290	24.969	21.097	24.580	20.240	20.901	-.211
109.	24.470	25.910	22.970	30.685	26.117	26.350	22.930	25.736	-.185
190.	24.860	23.030	21.100	31.400	23.934	23.830	21.250	23.566	.144
191.	25.190	25.290	21.630	32.032	23.456	26.180	21.660	22.943	-.007
192.	24.900	20.240	16.050	31.403	15.819	19.640	15.160	14.324	.172
193.	24.790	22.620	17.020	31.277	15.763	22.300	16.600	15.190	.002
194.	25.130	25.780	21.330	31.918	22.472	26.220	21.360	22.251	-.040
195.	26.100	27.120	23.040	33.968	25.492	27.760	22.990	24.957	-.065
196.	26.570	25.420	22.030	34.750	24.270	25.870	21.090	23.460	.064
197.	26.360	22.370	20.520	34.331	22.934	22.120	19.890	21.766	.204
198.	25.900	19.990	18.830	33.410	20.901	19.120	17.700	19.325	.279
199.	25.750	21.320	19.850	33.115	22.203	21.380	19.400	21.233	.239
200.	25.070	22.400	20.890	33.351	23.712	22.070	20.070	22.175	.212

DATE	RAFT WIND GPH	RAFT WIND GPH	RAFT WIND GPH	LAND WIND GPH	PRECIP. LAND STATION	BOLAR SHORT WAVE	BOLAR LONG WAVE
100.	7.757	6.320	6.650	2.985	0.000	417.200	805.500
109.	2.594	3.307	3.208	2.464	0.000	460.300	829.600
190.	6.173	7.517	6.310	3.932	0.000	610.900	790.100
191.	7.634	6.490	9.230	2.807	0.000	665.100	801.900
192.	7.890	6.420	9.010	6.622	0.000	635.700	724.000
193.	4.063	5.424	5.507	2.016	0.000	698.300	744.200
194.	7.237	7.970	6.420	2.525	0.000	657.000	797.400
195.	5.214	6.060	6.366	2.213	0.000	626.100	814.000
196.	6.149	7.487	6.070	2.401	0.000	517.000	804.000
197.	4.304	4.073	4.962	2.701	.470	399.400	810.900
198.	1.950	2.555	2.379	2.018	.300	263.800	774.300
199.	2.009	3.643	3.737	1.974	.010	463.700	803.500
200.	2.129	2.789	2.703	1.768	.020	446.400	791.800

Table 1. Raft station--daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation. [continued]

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EQ	VAPOR PRESSURE ATMOSPHERE EA	LAND DRY BULB AIR TEMPERATURE	LAND WET BULB AIR TEMPERATURE	LAND VALUE OF EA	BOWEN RATIO
201.	25.050	22.970	21.450	33.312	24.555	22.510	20.610	23.036	.192
202.	26.070	24.600	22.800	33.740	26.762	24.710	22.590	26.016	.124
203.	26.310	23.730	20.050	34.230	21.053	23.050	19.610	20.254	.115
204.	26.210	20.100	17.430	34.020	18.172	19.200	16.290	16.639	.227
205.	26.020	19.430	16.970	33.648	17.608	19.280	16.100	16.232	.234
206.	26.260	20.620	17.150	34.129	17.304	19.020	16.140	15.955	.197
207.	25.950	22.050	18.770	33.509	19.522	21.750	18.140	18.471	.164
208.	25.620	23.180	20.940	32.031	23.312	23.380	20.590	22.427	.150
209.	26.120	23.040	21.350	33.048	23.560	23.210	20.560	22.473	.130
210.	26.270	23.540	19.770	34.149	20.592	22.030	18.510	18.498	.110
211.	26.000	20.720	19.660	33.760	22.198	20.130	18.700	20.789	.222
212.	25.530	19.010	16.030	32.606	17.749	18.020	15.430	15.017	.257
213.	25.070	20.610	17.350	31.351	18.135	19.760	16.360	16.395	.207
214.	25.220	20.790	19.600	32.089	22.029	19.910	18.710	20.792	.259
215.	25.650	24.220	22.170	32.919	25.370	24.500	21.770	24.284	.111
216.	26.620	23.970	21.520	34.061	24.072	23.920	20.840	22.613	.144

DATE	RAFT WIND MIN	RAFT WIND @2H	RAFT WIND @4H	LAND WIND @2H	PRECIP. LAND STATION	SOLAR SHORT WAVE	SOLAR LONG WAVE
201.	3.065	3.724	3.078	2.596	.050	343.500	820.400
202.	2.984	3.771	3.936	3.247	0.000	314.200	876.100
203.	3.359	3.024	3.945	2.033	0.000	463.400	748.000
204.	4.260	4.097	5.301	3.051	0.000	598.500	743.200
205.	1.800	2.317	1.964	1.735	0.000	545.000	747.100
206.	1.903	2.550	2.396	1.850	0.000	649.500	736.100
207.	5.094	4.204	4.433	2.004	0.000	507.400	775.500
208.	5.419	4.104	4.518	1.923	0.000	301.200	816.000
209.	2.307	2.677	2.396	1.925	0.000	458.400	827.200
210.	2.373	2.775	2.061	2.107	0.000	589.800	782.800
211.	2.257	2.091	2.712	2.045	.540	319.500	808.000
212.	4.763	5.702	6.427	3.759	0.000	531.900	734.400
213.	1.592	2.142	1.046	1.705	0.000	648.100	739.100
214.	3.642	4.539	4.900	2.000	.110	180.400	816.100
215.	2.608	3.023	3.121	2.244	0.000	591.100	826.300
216.	2.655	3.404	3.444	1.509	0.000	612.100	803.100

Table 1. Raft station--daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation. [continued]

DATE	RAFT SURFACE WATER		RAFT DRY BULB AIR		RAFT WET BULB AIR		VAPOR PRESSURE WATER		VAPOR PRESSURE ATMOSPHERE		LAND DRY BULB AIR		LAND WET BULB AIR		LAND VALUE OF EA		BOWEN RATIO
	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	EA	EA	EA	EA	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	EA	EA	
217.	27.100	25.240	22.570	35.050	25.623	25.080	21.940	24.333	.107								
218.	27.450	24.620	19.760	37.030	19.869	24.510	19.490	19.303	.104								
219.	27.190	27.710	20.580	36.047	19.504	27.410	20.400	19.390	-.019								
220.	26.800	21.250	16.540	35.232	15.759	21.170	14.350	15.463	.148								
221.	26.020	17.820	14.860	33.448	10.574	14.800	15.750	17.155	.320								
222.	25.180	19.320	17.460	32.013	18.735	19.100	17.020	17.994	.259								
223.	25.000	18.330	15.840	31.823	14.370	18.020	15.250	15.530	.257								
224.	24.840	20.140	17.120	31.371	17.544	19.900	16.820	17.153	.199								
225.	24.920	21.990	19.170	31.521	20.367	21.020	19.490	21.132	.104								
226.	25.500	21.520	18.320	32.627	18.973	20.930	18.490	19.692	.171								
227.	25.740	23.760	20.200	33.695	21.519	23.480	21.420	24.039	.101								
228.	25.250	19.430	18.040	32.146	19.782	18.190	16.940	18.406	.277								
229.	25.910	22.950	20.730	33.430	23.008	23.010	21.120	23.813	.167								
230.	25.410	23.360	20.910	32.454	23.130	23.510	21.620	24.594	.129								

DATE	RAFT WIND		RAFT WIND		RAFT WIND		LAND WIND		PRECIP.		SOLAR		SOLAR	
	DIR	02H	DIR	02H	DIR	04H	02H	02H	STATION	SHORT WAVE	LONG WAVE	SHORT WAVE	LONG WAVE	
217.	3.635	4.127			4.070		2.442		0.000			579.200	833.700	
218.	1.777	2.347			2.060		1.701		0.000			623.000	753.400	
219.	7.075	7.796			0.300		4.942		0.000			617.000	800.000	
220.	3.524	4.207			4.422		2.373		0.000			621.900	712.000	
221.	3.000	3.762			3.796		1.669		.200			131.900	796.300	
222.	4.672	5.522			5.990		3.137		.200			372.500	777.500	
223.	2.311	2.966			2.803		2.420		0.000			623.200	699.900	
224.	5.974	7.005			7.349		2.112		0.000			607.200	743.600	
225.	4.469	5.054			5.484		2.563		.070			548.200	778.000	
226.	1.801	2.313			2.230		1.634		0.000			596.400	746.400	
227.	2.670	3.276			3.060		1.354		0.000			496.700	799.000	
228.	1.926	2.491			2.273		2.335		.320			201.200	790.200	
229.	1.607	2.164			1.640		1.421		0.000			530.500	809.600	
230.	4.106	5.095			5.273		1.776		0.000			370.900	824.500	

Table 1. Raft station--daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation. [continued]

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EQ	VAPOR PRESSURE ATMOSPHERE EA	LAND DRY BULB AIR TEMPERATURE	LAND WET BULB AIR TEMPERATURE	LAND VALUE OF EA	BOWEN RATIO
231.	25.050	20.280	16.960	31.672	17.160	19.610	10.410	20.391	.191
232.	24.390	17.460	15.040	30.530	15.524	16.790	15.000	15.088	.271
233.	24.000	19.690	18.300	29.033	20.122	19.500	18.140	19.932	.261
234.	23.050	10.250	15.540	29.553	15.894	17.710	16.570	10.109	.241
235.	23.010	19.900	17.000	29.494	17.507	20.170	18.770	20.743	.109
236.	23.020	21.970	20.800	29.512	23.970	22.250	20.470	22.906	.196
237.	24.000	25.200	22.710	30.924	25.973	25.940	24.450	30.173	-.071
238.	24.000	23.000	20.110	31.444	21.654	23.400	22.280	26.156	.113
239.	25.120	22.070	19.040	31.099	21.174	22.610	21.380	24.648	.123
240.	25.010	23.710	20.100	31.490	21.340	24.470	22.670	26.357	.074
241.	24.610	21.350	18.990	30.943	20.417	19.150	18.470	20.910	.102
242.	24.610	21.500	18.000	30.943	19.939	21.490	21.630	23.933	.166
243.	24.520	21.070	17.470	30.777	21.579	20.510	20.700	24.532	.220
244.	24.590	23.640	20.470	30.906	22.001	24.000	24.190	30.299	.063

DATE	RAFT WIND 01H	RAFT WIND 02H	RAFT WIND 04H	LAND WIND 02H	PRECIP. GLAND STATION	SOLAR SHORT WAVE	SOLAR LONG WAVE
231.	5.490	6.245	7.031	3.084	0.000	435.700	729.400
232.	3.448	4.279	4.501	1.989	0.000	322.000	754.900
233.	4.449	5.334	5.914	2.622	.010	346.000	806.600
234.	1.922	2.486	2.276	1.474	0.000	461.600	741.400
235.	4.206	5.409	5.079	2.074	0.000	492.900	772.600
236.	4.344	5.334	5.568	2.773	0.000	244.000	835.400
237.	4.026	4.766	4.709	2.149	0.000	448.900	850.500
238.	2.971	3.467	3.634	2.414	.100	479.500	700.800
239.	2.373	2.907	3.054	1.921	0.000	437.700	803.600
240.	4.472	5.383	6.141	3.063	0.000	477.300	803.100
241.	3.552	4.263	4.502	2.854	.100	129.900	748.100
242.	1.973	2.485	2.290	2.240	0.000	623.000	756.000
243.	3.737	4.477	4.040	1.643	.130	316.000	795.100
244.	4.735	5.866	6.221	2.312	0.000	494.300	776.000

Table 1. Raft station--daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation. [continued]

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER	WIND PRESSURE ATMOSPHERE	WIND W2H	LAND DRY BULB AIR TEMPERATURE	LAND WET BULB AIR TEMPERATURE	LAND VALUE OF EA	BOWEN RATIO
253.	16.200	6.039	4.032	10.409	7.053		5.443	0.673	9.205	.566
254.	15.400	5.144	3.930	17.490	7.290		4.697	4.944	0.044	.590
255.	14.670	3.644	3.672	16.607	6.701		2.803	3.061	7.722	.654
256.	14.260	6.694	3.696	16.250	6.043		6.031	6.130	9.525	.436
257.	14.090	11.600	0.650	16.072	9.261		11.410	11.740	13.993	.200
258.	14.430	14.940	11.210	16.430	10.902		14.150	14.200	16.356	-.054
259.	15.110	14.500	11.350	17.167	11.400		13.790		17.942	.062
260.	15.270	17.690	14.730	17.345	14.838		16.930		19.750	-.567
261.	15.630	10.590	13.000	17.750	16.201		18.900		21.754	-1.19
262.	15.190	10.120	9.621	17.256	11.645		10.110		14.574	.534
263.	14.970	15.260	14.600	17.013	16.323		15.040		21.362	-.247
264.	15.090	14.220	13.520	17.145	15.036		14.300		19.601	.243
265.	14.000	9.970	9.062	16.915	12.102		9.800		15.120	.406
266.	14.490	9.300	0.999	16.494	11.201		0.900		13.955	.501
267.	14.240	9.560	0.910	16.229	11.007		9.440		13.793	.531
268.	13.970	0.550	7.732	15.948	10.004		0.060		12.398	.531
269.	13.640	7.175	5.301	15.609	7.706		6.073		6.973	.481
270.	13.360	6.210	5.027	15.327	0.991		5.430		10.665	.661
271.	13.260	5.407	3.535	15.237	6.673		4.003		7.185	.541
272.	12.780	0.250	5.655	14.757	7.466		7.500		9.213	.361

DATE	RAFT WIND W2H	RAFT WIND W4H	PRECIP. GLAND STATION	LAND WIND W2H	SHORT WAVE	LONG WAVE
263.	7.599	10.240	.030	6.493	190.000	433.200
264.	7.613	10.130	.030	6.494	249.400	431.400
265.	6.349	8.700	0.000	4.589	190.100	600.700
266.	4.696	6.532	0.000	2.191	443.300	550.100
267.	5.600	7.472	0.000	2.544	373.000	601.300
268.	2.723	3.960	0.000	1.730	368.800	665.000
269.	1.368	1.670	0.000	1.580	403.400	645.700
270.	5.522	7.426	0.000	3.254	361.600	705.400
271.	4.506	0.900	0.000	3.297	206.300	770.200
272.	3.955	4.995	.030	3.542	80.140	713.500
273.	3.224	4.404	.190	1.798	74.730	770.000
274.	4.090	5.503	.250	2.262	135.200	777.200
275.	2.920	3.708	.570	2.735	79.110	737.600
276.	4.268	6.710	.030	2.932	80.980	711.300
277.	2.406	3.249	.120	1.470	125.500	706.600
278.	6.339	0.450	0.000	5.570	106.600	636.900
279.	2.972	4.111	0.000	2.029	365.000	500.300
280.	3.593	4.592	.040	3.699	44.600	660.500
281.	1.661	2.364	0.000	1.260	362.300	549.900
282.	0.020	10.560	0.000	2.646	296.600	619.200

Table 1. Raft station--daily averages: (1) Lake-surface water temperature; (2) dry- and wet-bulb air temperatures; (3) vapor pressures; (4) Bowen ratio; and (5) wind speed at 1, 2, and 4 meters. Land station: (1) Daily average dry- and wet-bulb air temperatures; (2) daily average vapor pressure; (3) daily average wind speed at 2 meters; (4) daily total precipitation; and (5) daily total short- and long-wave radiation. [continued]

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EQ	VAPOR PRESSURE ATMOSPHERE EA	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	LAND DRY BULB AIR TEMPERATURE	LAND WET BULB AIR TEMPERATURE	LAND VALUE OF EA	BOWEN RATIO
203.	12.420	9.460	8.807	13.412	10.907	9.210	8.210	9.210	8.210	13.427	.494
204.	12.160	6.274	4.433	14.168	7.204	5.709	4.433	5.709	4.433	8.715	.497
205.	11.720	1.577	.673	13.762	5.030	1.435	.673	1.435	.673	6.332	.752
206.	11.340	2.256	2.210	13.420	7.133	2.053	2.210	2.053	2.210	8.401	.049
207.	11.020	4.850	2.964	13.130	6.353	4.315	2.964	4.315	2.964	7.253	.534
208.	10.630	5.046	4.507	12.802	8.179	4.945	4.507	4.945	4.507	9.562	.710
209.	10.340	5.336	4.610	12.556	8.032	4.822	4.610	4.822	4.610	8.595	.649
210.	10.150	5.418	3.920	12.390	7.137	4.602	3.920	4.602	3.920	8.593	.539
211.	9.090	3.936	2.402	12.104	6.202	3.829	2.402	3.829	2.402	7.483	.594
212.	9.570	5.926	5.590	11.923	8.801	5.920	5.590	5.920	5.590	11.071	.704
213.	9.420	6.303	5.427	11.005	8.421	5.931	5.427	5.931	5.427	10.448	.541
214.	9.360	4.406	4.406	11.757	8.102	4.354	4.406	4.354	4.406	10.272	.475
215.	9.510	7.765	6.030	11.877	9.325	7.250	6.030	7.250	6.030	11.518	.402
216.	9.210	3.659	3.576	11.455	7.830	2.997	3.576	2.997	3.576	9.245	.058
217.	9.070	5.600	5.050	11.530	8.399	5.077	5.050	5.077	5.050	10.354	.451
218.	8.840	5.509	3.201	11.352	6.255	4.394	3.201	4.394	3.201	7.224	.375
219.	8.760	7.063	4.523	11.291	6.810	4.051	4.523	4.051	4.523	7.669	.223

DATE	RAFT WIND GPH	RAFT WIND GPH	RAFT WIND GPH	LAND WIND GPH	PRECIP. QUANT. STATION	SOLAR SHORT WAVE	SOLAR LONG WAVE
203.	7.194	8.310	9.810	2.367	.350	22.210	720.300
204.	5.999	4.914	8.120	5.163	0.000	340.900	556.000
205.	4.536	5.457	6.260	3.035	.010	244.100	508.700
206.	4.202	5.145	5.041	2.603	.110	104.000	645.800
207.	3.717	4.545	5.146	3.457	0.000	337.500	535.000
208.	5.761	6.495	7.331	6.552	.130	37.560	664.800
209.	5.741	6.636	7.754	5.596	.100	184.800	621.400
210.	2.972	3.030	4.253	2.778	0.000	275.800	610.000
211.	4.771	5.431	5.935	4.688	0.000	45.100	659.900
212.	5.031	6.630	7.627	5.040	.050	41.400	676.400
213.	4.335	5.173	5.906	3.424	.030	179.700	624.800
214.	2.451	2.923	3.197	1.730	0.000	93.000	679.900
215.	.949	1.349	1.160	1.145	0.000	107.900	630.000
216.	3.611	4.269	4.050	1.505	0.000	106.600	630.000
217.	4.095	4.039	5.499	2.713	.050	61.390	616.600
218.	3.147	4.152	4.417	2.375	0.000	220.500	434.000
219.	2.560	3.332	3.631	2.249	0.000	265.300	553.400

- 1/ Values of raft dry-bulb for days 164 through 166 were found by linear regression with back-up instruments (regression 1). Values of ea raft, and the Bowen ratio for corresponding days had to be recalculated due to their dependence on the raft dry-bulb values.
- 2/ Solar long-wave radiation for days 164 through 168 was obtained using Brunt's equation.
- 3/ Values of land ea for days 269 through 299 were found by linear regression with back-up instruments (regression 2). Land wet-bulb values were lost due to a dry instrument reservoir.

Table 2. Raft station: (1) Daily average lake-surface water temperature; (2) daily average dry- and wet-bulb air temperatures; and (3) daily maximum and minimum dry-bulb air temperatures and the time they occurred.

[c, degrees celsius]

DATE	SURFACE WATER (C)	DRY BULB AIR (C)	MAXIMUM AIR (C)	TIME OF MAXIMUM	MINIMUM AIR (C)	TIME OF MINIMUM	WET BULB AIR (C)
150.	14.66	10.99	14.19	1908.	7.86	429.	8.78
151.	14.94	12.74	19.55	1806.	7.59	429.	8.87
152.	15.65	13.72	18.85	1749.	7.42	509.	9.64
153.	16.12	15.38	20.34	1738.	8.73	419.	11.66
154.	16.38	14.79	19.64	1852.	10.75	2153.	11.96
155.	16.44	12.13	15.77	1616.	9.17	511.	10.22
156.	16.18	10.48	14.62	1740.	5.92	2305.	7.16
157.	16.25	14.24	20.61	1616.	7.07	18.	8.20
158.	17.01	14.21	22.37	1834.	3.99	454.	8.83
159.	17.52	15.98	20.78	1442.	9.17	2353.	12.20
160.	18.66	15.30	22.98	1523.	6.54	358.	11.41
161.	18.70	18.40	26.24	1452.	12.43	546.	15.59
162.	19.44	21.51	25.44	1610.	17.00	511.	18.10
163.	19.81	20.43	22.10	2036.	18.67	6.	19.00
164.	19.94						
165.	19.49						
166.	18.72						
167.	18.12	11.63	16.47	1915.	7.86	2351.	9.56

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
168.	19.34	14.00	20.52	1530.	5.92	406.	10.67
169.	19.34	16.18	20.79	1220.	9.44	244.	13.37
170.	19.62	16.92	23.69	1733.	12.95	443.	16.02
171.	20.18	20.13	22.81	1354.	17.18	229.	18.16
172.	20.63	21.17	24.21	1648.	17.79	913.	19.66
173.	21.61	22.48	25.62	1031.	15.59	2348.	19.46
174.	23.16	20.67	27.03	1844.	13.57	419.	16.38
175.	23.38	21.60	27.29	1510.	17.44	625.	19.74
176.	23.92	25.33	29.93	1708.	20.17	506.	21.35
177.	24.52	21.44	25.09	1405.	14.98	2329.	18.51
178.	23.97	15.90	19.20	1702.	11.63	2354.	12.56
179.	23.28	15.40	22.10	1545.	7.24	426.	11.57
180.	22.27	14.77	18.06	2356.	13.22	1114.	13.65
181.	21.83	19.61	23.16	1603.	14.98	2400.	17.68
182.	22.48	18.84	24.30	1833.	14.10	530.	16.49
183.	22.56	18.81	24.39	1533.	16.30	222.	17.91
184.	22.12	18.67	21.57	1136.	15.33	2400.	17.96
185.	21.36	14.77	19.11	1431.	9.52	2348.	13.18
186.	21.51	13.29	19.29	1813.	6.54	449.	10.52
187.	21.84	20.20	26.76	1646.	10.84	113.	17.28

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
188.	22.53	24.44	29.84	1634.	20.25	522.	20.29
189.	24.47	25.91	31.07	1646.	19.90	447.	22.97
190.	24.86	23.03	27.82	1537.	19.20	2359.	21.18
191.	25.19	23.29	30.55	1527.	18.41	555.	21.63
192.	24.90	20.24	23.00	119.	15.50	2358.	16.05
193.	24.79	22.62	28.79	1632.	13.23	353.	17.02
194.	25.13	25.78	30.63	1450.	19.73	436.	21.53
195.	26.18	27.12	32.22	1513.	22.28	522.	23.04
196.	26.57	25.42	28.55	1555.	22.54	520.	22.03
197.	26.36	23.37	26.06	1904.	18.58	2325.	20.52
198.	25.90	19.99	23.80	1837.	16.21	506.	18.83
199.	25.75	21.32	26.15	1714.	17.88	113.	19.85
200.	25.87	22.40	28.55	1715.	17.35	442.	20.89

Table 2. Raft station: (1) Daily average lake-surface water temperature; (2) daily average dry- and wet-bulb air temperatures; and (3) daily maximum and minimum dry-bulb air temperatures and the time they occurred. [continued]

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
201.	25.35	22.99	27.12	1648.	18.14	405.	21.45
202.	26.07	24.60	28.26	1427.	21.84	2356.	22.88
203.	26.31	23.73	28.17	1858.	18.85	2400.	20.05
204.	26.21	20.10	24.12	1519.	15.42	508.	17.43
205.	26.02	19.63	24.50	1837.	14.89	502.	16.97
206.	26.26	20.62	25.44	1842.	14.19	421.	17.15
207.	25.95	22.05	26.50	1559.	15.50	420.	18.77
208.	25.62	23.18	25.88	1631.	20.69	2400.	20.94
209.	26.12	23.84	30.11	1301.	19.81	449.	21.25
210.	26.27	23.54	29.14	1255.	17.88	527.	19.77
211.	26.08	20.72	25.44	1730.	17.53	2359.	19.66
212.	25.53	19.01	23.25	1719.	15.59	453.	16.83
213.	25.87	20.51	26.76	1536.	14.10	458.	17.55
214.	25.22	20.79	23.95	1627.	17.26	206.	19.60
215.	25.85	24.22	29.67	1738.	20.25	227.	22.17
216.	26.62	23.97	28.26	1615.	19.64	544.	21.52

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
217.	27.10	25.24	30.90	1614.	19.20	447.	22.57
218.	27.65	24.62	30.02	1654.	18.32	437.	19.76
219.	27.19	27.71	34.50	1649.	20.61	428.	20.58
220.	26.80	21.25	25.09	1740.	15.59	2324.	16.54
221.	26.02	17.82	20.78	1436.	14.89	438.	16.86
222.	25.18	19.52	23.42	1712.	16.03	2400.	17.46
223.	25.08	18.33	23.60	1827.	14.01	528.	15.84
224.	24.84	20.16	25.00	1650.	13.57	518.	17.12
225.	24.92	21.99	26.06	1754.	18.23	2359.	19.17
226.	25.50	21.52	29.31	1658.	14.19	544.	18.32
227.	25.74	23.76	32.83	1758.	18.76	140.	20.28
228.	25.25	19.43	22.37	1824.	16.12	549.	18.04
229.	25.91	22.95	33.36	1730.	18.67	559.	20.73
230.	25.41	23.36	27.82	1412.	19.90	232.	20.91

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
231.	25.00	20.29	24.04	1409.	12.95	2354.	16.96
232.	24.39	17.46	22.63	1608.	11.55	238.	15.04
233.	24.00	19.69	25.18	1224.	15.77	2355.	18.30
234.	23.85	18.25	23.33	1516.	13.13	541.	15.54
235.	23.81	19.98	23.95	1640.	14.80	201.	17.08
236.	23.82	21.97	26.06	1641.	19.02	529.	20.83
237.	24.60	25.20	31.16	1622.	19.29	427.	22.71
238.	24.88	23.00	28.43	1526.	17.79	547.	20.11
239.	25.12	22.27	29.05	1335.	16.91	510.	19.84
240.	25.01	23.71	30.19	1645.	17.79	530.	20.18
241.	24.61	21.35	25.36	1432.	18.14	917.	18.99
242.	24.61	21.50	28.00	1725.	17.09	519.	18.80
243.	24.52	21.07	25.97	1258.	17.44	536.	19.47
244.	24.59	23.64	30.19	1515.	17.00	530.	20.47

Table 2. Raft station: (1) Daily average lake-surface water temperature; (2) daily average dry- and wet-bulb air temperatures; and (3) daily maximum and minimum dry-bulb air temperatures and the time they occurred. [continued]

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
245.	25.12	26.75	33.71	1443.	20.25	430.	22.45
246.	24.92	22.08	25.80	8.	17.79	2332.	13.27
247.	24.29	18.41	23.42	1154.	15.06	2353.	17.83
248.	23.89	16.70	22.63	1349.	12.16	609.	15.35
249.	22.98	13.64	16.12	1034.	10.23	621.	11.60
250.	22.57	17.82	22.81	1613.	13.75	509.	14.74
251.	22.53	22.96	28.96	1934.	16.82	613.	19.17
252.	22.68	19.29	23.51	1506.	16.82	921.	17.71
253.	22.22	15.57	19.64	341.	10.84	2359.	12.98
254.	21.29	9.26	12.16	1129.	6.45	527.	8.81
255.	20.61	11.02	14.98	1540.	6.54	542.	9.31
256.	20.20	11.20	15.68	1338.	6.71	2353.	9.04
257.	19.72	10.50	15.15	1310.	4.43	630.	8.97
258.	18.89	10.57	11.55	333.	9.52	2359.	10.57
259.	18.20	10.67	12.87	1254.	9.08	431.	10.10
260.	17.66	12.72	15.33	1434.	10.23	532.	12.06
261.	17.32	10.96	14.62	1634.	6.36	2328.	8.13
262.	16.88	7.71	9.61	1309.	5.57	2352.	6.26

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
263.	16.20	6.03	7.68	1644.	5.04	2355.	4.83
264.	15.40	5.16	8.38	1606.	3.28	1453.	3.92
265.	14.67	3.64	6.19	1643.	-0.23	2352.	2.67
266.	14.26	6.69	13.48	1550.	-1.20	603.	3.70
267.	14.09	11.68	18.58	1620.	6.89	2348.	8.65
268.	14.43	14.94	23.60	1620.	4.78	631.	11.21
269.	15.11	14.50	22.89	1520.	7.51	634.	11.33
270.	15.27	17.69	24.48	1622.	8.91	241.	14.73
271.	15.63	18.59	22.98	1324.	12.69	2400.	15.88
272.	15.19	10.12	12.69	9.	8.47	722.	9.62
273.	14.57	15.26	20.43	2110.	10.67	20.	14.68
274.	15.09	14.22	19.46	29.	9.35	2344.	13.52
275.	14.88	9.57	11.99	1159.	8.82	230.	9.67
276.	14.49	9.30	10.40	1613.	8.12	2354.	9.00
277.	14.24	9.56	12.34	1414.	8.29	28.	8.98
278.	13.97	8.55	10.93	1037.	4.51	2359.	7.75
279.	13.64	7.18	12.87	1602.	.91	544.	5.30
280.	13.56	6.21	8.38	19.	1.52	2400.	5.65
281.	13.26	5.41	13.04	1654.	-0.06	629.	5.54
282.	12.78	8.25	12.07	1504.	1.79	147.	5.66

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
283.	12.42	9.46	11.46	2356.	7.68	1054.	8.81
284.	12.16	6.27	11.72	139.	-0.59	2158.	4.43
285.	11.72	1.58	5.57	1433.	-1.46	825.	.67
286.	11.54	2.26	3.46	2251.	.73	722.	2.21
287.	11.02	4.85	12.60	1445.	.12	709.	2.96
288.	10.63	5.05	6.18	2359.	3.81	659.	4.59
289.	10.34	5.34	9.35	1500.	.82	2304.	4.61
290.	10.15	5.42	10.49	1430.	.47	704.	3.93
291.	9.39	3.94	5.48	8.	2.84	711.	2.40
292.	9.57	5.93	7.53	2030.	3.99	100.	5.60
293.	9.42	6.50	10.95	1539.	3.65	2347.	5.43
294.	9.36	6.41	9.52	1301.	3.72	100.	5.22
295.	9.51	7.76	13.75	1500.	2.76	2359.	6.85
296.	9.23	3.66	7.86	1613.	.20	640.	3.58
297.	9.07	5.60	10.23	1540.	1.43	2400.	5.05
298.	8.84	5.59	12.95	1530.	-0.41	647.	3.29
299.	8.76	7.06	14.45	1602.	.82	553.	4.52

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred.

[mph, miles per hour]

MEASURE HEIGHT	JULIAN DATE	DAILY AVE (mph)	DAILY MAX (mph)	TIME OF MAXIMUM	DAILY MIN. (mph)	TIME OF MINIMUM
1 METER	150.	5.763	21.45	1254.	.656	118.
	151.	3.163	16.98	1152.	.571	1924.
	152.	2.744	12.82	1757.	.571	134.
	153.	3.103	16.87	1205.	.571	2357.
	154.	4.084	19.84	1403.	.571	2321.
	155.	4.731	17.86	1042.	.571	1955.
	156.	4.697	17.80	928.	.571	2217.
	157.	6.549	24.03	1644.	.571	2352.
	158.	2.892	13.70	1308.	.571	439.
	159.	4.562	17.91	1147.	.571	2315.
	160.	2.106	10.73	1500.	.571	1400.
	161.	6.404	26.91	1553.	.571	1810.
	162.	7.335	20.94	1000.	.600	605.
	163.	8.050	19.41	925.	.600	1857.
	164.	7.698	21.11	1121.	.571	2323.
	165.	3.867	16.87	1038.	.600	2337.
	166.	7.646	26.35	1332.	.600	441.
	167.	5.236	14.91	1357.	.571	2136.
2 METER	150.	6.535	19.22	1254.	1.788	118.
	151.	3.843	18.88	1018.	.571	2242.
	152.	3.255	13.61	1736.	.571	134.
	153.	3.686	16.08	1718.	.571	827.
	154.	4.701	22.10	1403.	.571	2321.
	155.	5.448	18.40	1042.	.571	111.
	156.	5.399	18.59	1440.	.600	2357.
	157.	7.379	25.30	1605.	.600	2356.
	158.	3.520	14.55	1308.	.600	2023.
	159.	5.337	18.99	1318.	.600	2400.
	160.	2.707	11.29	1500.	.571	1112.
	161.	7.475	29.63	1554.	.571	1808.
	162.	6.060	22.16	931.	.713	524.
	163.	8.820	21.48	1025.	.600	1837.
	164.	8.310	22.47	315.	.571	2321.
	165.	4.455	19.47	2107.	.600	2323.
	166.	8.150	26.21	1416.	.600	231.
	167.	5.790	15.85	848.	.571	1935.
4 METER	150.	7.421	24.91	812.	2.043	1542.
	151.	4.255	21.65	1112.	.571	2242.
	152.	3.250	14.32	1736.	.571	741.
	153.	3.599	16.30	1548.	.571	2357.
	154.	5.215	22.27	1403.	.571	2323.
	155.	6.254	18.65	1042.	.571	112.
	156.	6.151	20.35	928.	.571	2217.
	157.	6.690	29.89	1700.	.571	2352.
	158.	3.699	15.85	1712.	.571	2013.
	159.	5.982	21.42	1704.	.571	2315.
	160.	2.707	11.12	1814.	.571	1400.
	161.	7.925	30.62	1551.	.571	1810.
	162.	8.520	25.16	1250.	.600	604.
	163.	9.250	25.16	1018.	.600	1957.
	164.	8.850	25.95	315.	.571	2322.
	165.	4.778	19.30	2107.	.571	2258.
	166.	9.070	26.04	1350.	.600	410.
	167.	6.588	16.96	253.	.571	2136.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	168.	1.772	12.17	1537.	.571	2146.
	169.	5.503	20.24	1714.	.571	454.
	170.	6.959	23.07	1227.	.600	2115.
	171.	6.039	18.17	1126.	.600	2335.
	172.	5.571	21.74	1444.	.600	2006.
	173.	6.677	19.58	334.	.600	2400.
	174.	1.585	10.75	1408.	.571	2337.
	175.	4.286	14.38	2343.	.571	533.
	176.	7.441	23.09	1231.	.600	1859.
	177.	2.580	14.94	1333.	.600	2359.
	178.	4.180	15.34	2308.	.571	2127.
	179.	3.560	13.81	1430.	.600	2142.
	180.	5.516	20.41	1359.	.600	736.
	181.	5.604	16.33	1707.	.600	2400.
	182.	3.307	12.96	1406.	.571	2149.
	183.	4.953	20.38	1127.	.571	429.
	184.	4.055	22.92	2359.	.600	2042.
	185.	7.890	22.87	1550.	.600	2310.
	186.	2.718	12.14	1500.	.571	2057.
	187.	6.156	23.35	1534.	.600	417.
2 METER	168.	2.327	11.97	1537.	.571	1528.
	169.	6.691	21.74	1253.	.571	454.
	170.	8.320	22.70	1416.	2.184	2059.
	171.	7.454	18.99	1127.	1.109	2325.
	172.	6.642	23.46	1414.	.600	1124.
	173.	7.705	19.70	1455.	.600	2400.
	174.	2.080	10.78	1312.	.571	2337.
	175.	5.872	22.63	1547.	1.600	1359.
	176.	5.806	22.53	1511.	1.600	1359.
	177.	3.137	15.45	1333.	.600	2354.
	178.	5.032	16.30	2308.	.571	2127.
	179.	4.518	15.51	952.	.600	643.
	180.	6.676	20.26	1359.	.656	326.
	181.	6.232	17.72	1652.	.600	2338.
	182.	3.777	12.25	1406.	.571	1152.
	183.	5.981	25.84	1600.	.571	425.
	184.	4.645	26.38	2140.	.600	2021.
	185.	8.660	24.91	1532.	.911	2217.
	186.	3.259	11.80	1524.	.600	2306.
	187.	6.996	22.67	1244.	.600	305.
4 METER	168.	2.116	13.16	1537.	.571	2349.
	169.	7.159	21.28	1253.	.571	454.
	170.	8.990	22.41	1416.	1.930	545.
	171.	8.145	20.43	1126.	.571	2325.
	172.	7.089	23.38	1414.	.571	705.
	173.	8.590	21.40	1455.	.571	2143.
	174.	1.778	10.44	1312.	.571	2337.
	175.	5.247	18.99	542.	.571	1210.
	176.	8.350	22.73	1211.	.600	2011.
	177.	3.116	14.80	1334.	.571	2142.
	178.	5.447	16.19	1307.	.571	2127.
	179.	4.827	17.24	952.	.571	313.
	180.	7.479	18.14	1359.	.600	726.
	181.	6.720	19.41	1634.	.600	2400.
	182.	3.965	13.39	1406.	.571	2149.
	183.	6.445	26.05	1600.	.571	429.
	184.	4.772	28.64	2140.	.571	1405.
	185.	9.750	27.23	1532.	.600	2315.
	186.	2.965	12.74	1524.	.571	2315.
	187.	7.272	24.23	1509.	.600	415.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	188.	7.757	24.96	1532.	1.901	231.
	189.	2.594	13.98	2312.	.571	1938.
	190.	6.173	16.92	1215.	1.477	745.
	191.	7.636	22.39	1102.	.600	2353.
	192.	7.890	24.68	1118.	.600	2400.
	193.	4.843	15.74	1306.	.600	723.
	194.	7.237	21.82	1421.	.600	1953.
	195.	5.214	15.62	1613.	.600	2252.
	196.	6.149	20.89	1449.	1.194	323.
	197.	4.384	15.54	1308.	.571	2058.
	198.	1.950	13.22	1509.	.571	2158.
	199.	2.889	13.75	555.	.571	2153.
	200.	2.169	12.42	1457.	.571	2200.
2 METER	188.	8.320	28.02	1532.	2.892	2324.
	189.	3.307	14.18	2337.	.600	2032.
	190.	7.517	18.14	1212.	2.213	753.
	191.	8.690	21.79	1252.	1.222	2353.
	192.	8.420	26.52	1118.	.600	2400.
	193.	5.426	16.53	1306.	.600	609.
	194.	7.970	22.13	1343.	1.930	1959.
	195.	6.068	16.41	1401.	1.533	2234.
	196.	7.487	20.80	1449.	1.986	323.
	197.	4.873	16.90	15.	.571	2346.
	198.	2.555	13.84	1509.	.571	2158.
	199.	3.643	13.73	556.	.600	2400.
	200.	2.789	13.92	1454.	.571	2200.
4 METER	188.	8.650	25.02	1542.	1.031	2324.
	189.	3.298	16.33	2214.	.571	754.
	190.	8.310	17.66	1215.	2.609	356.
	191.	9.230	22.95	1112.	.600	2400.
	192.	9.010	28.05	1403.	.600	2400.
	193.	5.507	17.12	1253.	.600	600.
	194.	8.420	23.04	1433.	.600	1959.
	195.	6.366	17.58	1502.	.600	2253.
	196.	8.070	21.25	1506.	.628	323.
	197.	4.962	18.25	106.	.571	2346.
	198.	2.579	13.61	1509.	.571	2158.
	199.	3.757	15.88	1053.	.571	2153.
	200.	2.783	15.28	1457.	.571	2200.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	201.	3.065	14.26	1221.	.571	1924.
	202.	2.984	10.27	518.	.571	139.
	203.	3.359	15.83	1612.	.571	1934.
	204.	4.260	20.09	1253.	.571	500.
	205.	1.800	8.75	1156.	.571	2013.
	206.	1.903	10.67	1200.	.600	2356.
	207.	5.094	20.77	1214.	.600	500.
	208.	5.449	14.12	759.	.600	2351.
	209.	2.307	14.41	1700.	.571	2202.
	210.	2.573	11.94	1348.	.571	2130.
	211.	2.257	15.71	549.	.571	2005.
	212.	4.763	17.32	1401.	.600	2400.
	213.	1.592	6.51	1141.	.571	1829.
	214.	3.642	17.21	910.	.600	2347.
	215.	2.608	12.59	1255.	.571	2305.
	216.	2.555	9.25	1258.	.571	512.
2 METER	201.	3.726	16.67	1221.	.571	114.
	202.	3.771	10.56	518.	.571	139.
	203.	3.824	16.19	1612.	.571	2135.
	204.	4.897	19.10	1311.	.571	31.
	205.	2.317	9.96	1156.	.600	2359.
	206.	2.550	12.45	1331.	.571	850.
	207.	6.204	19.50	1214.	.600	331.
	208.	6.184	14.35	919.	1.166	2351.
	209.	2.677	13.84	1700.	.571	332.
	210.	2.775	12.79	1256.	.571	201.
	211.	2.891	16.70	549.	.571	19.
	212.	5.702	19.95	1046.	.600	2400.
	213.	2.142	7.76	1423.	.600	2225.
	214.	4.539	15.42	910.	.600	2344.
	215.	3.023	12.85	1252.	.571	932.
	216.	3.404	10.19	1715.	.571	511.
4 METER	201.	3.878	22.70	944.	.571	1926.
	202.	3.936	13.13	518.	.571	136.
	203.	3.945	16.58	1656.	.571	2135.
	204.	5.381	24.08	1332.	.571	2156.
	205.	1.964	10.44	1125.	.571	2152.
	206.	2.396	11.77	1426.	.571	2050.
	207.	6.433	18.74	1441.	.600	2227.
	208.	6.518	14.53	909.	.600	2353.
	209.	2.396	14.29	1724.	.571	2202.
	210.	2.861	13.73	1346.	.571	2130.
	211.	2.712	15.74	549.	.571	2005.
	212.	6.427	21.88	1046.	.571	2106.
	213.	1.846	8.69	1141.	.571	1829.
	214.	4.900	15.91	910.	.600	2345.
	215.	3.121	15.57	1233.	.571	2305.
	216.	3.444	10.08	1733.	.571	621.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	217.	3.635	13.25	1233.	.571	1946.
	218.	1.777	7.76	1305.	.571	626.
	219.	7.075	23.04	1105.	.600	2400.
	220.	3.524	15.91	1202.	.600	2400.
	221.	3.000	12.03	1904.	.571	1641.
	222.	4.672	15.25	1247.	.600	2350.
	223.	2.311	12.00	811.	.571	46.
	224.	5.974	17.09	1319.	.600	917.
	225.	4.669	16.64	1442.	.571	2307.
	226.	1.881	10.36	1448.	.571	1911.
	227.	2.678	14.18	1218.	.600	2400.
	228.	1.926	16.27	1516.	.571	2220.
	229.	1.687	9.23	1422.	.600	2357.
	230.	4.186	15.00	1320.	.571	251.
2 METER	217.	4.127	13.47	1233.	.571	2146.
	218.	2.347	8.60	949.	.571	1650.
	219.	7.796	24.45	1213.	.600	2354.
	220.	4.207	19.36	1119.	.571	2129.
	221.	3.762	12.93	1904.	.571	1639.
	222.	5.522	16.05	1201.	.600	2225.
	223.	2.966	11.92	811.	.600	2139.
	224.	7.005	19.50	1336.	.628	22.
	225.	5.054	17.18	1442.	.571	2307.
	226.	2.313	11.55	1249.	.571	1911.
	227.	3.276	15.31	1216.	.571	2305.
	228.	2.491	17.97	1516.	.571	2220.
	229.	2.164	8.92	1422.	.022	1727.
	230.	5.095	16.10	1416.	.571	251.
4 METER	217.	4.078	13.39	1015.	.571	2146.
	218.	2.068	9.65	949.	.571	2019.
	219.	8.300	27.14	1335.	.600	2400.
	220.	4.422	19.61	1111.	.571	2129.
	221.	3.796	12.96	1840.	.571	1641.
	222.	5.990	17.69	1611.	.600	2345.
	223.	2.803	13.08	811.	.571	2103.
	224.	7.349	21.42	1319.	.600	1043.
	225.	5.484	17.38	1442.	.571	2307.
	226.	2.238	10.84	1515.	.571	2055.
	227.	3.068	14.41	1033.	.571	2305.
	228.	2.273	18.03	1516.	.543	623.
	229.	1.640	8.75	1422.	.571	1958.
	230.	5.273	17.97	1341.	.571	251.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	231.	3.490	19.19	651.	.600	2400.
	232.	3.448	14.38	1630.	.571	632.
	233.	4.449	18.71	1636.	.600	2400.
	234.	1.922	11.24	1130.	.571	2022.
	235.	4.286	18.11	1313.	.571	101.
	236.	4.344	13.70	209.	.571	2039.
	237.	4.026	11.63	1230.	.600	2134.
	238.	2.971	25.87	29.	.571	1916.
	239.	2.573	14.07	1910.	.600	2308.
	240.	4.672	15.51	2007.	.600	2400.
	241.	3.552	24.34	800.	.571	2245.
	242.	1.973	10.87	1049.	.571	2245.
	243.	3.737	16.53	1220.	.600	2306.
	244.	4.735	16.19	1328.	.600	1527.
2 METER	231.	6.245	22.44	854.	.600	2400.
	232.	4.279	16.30	1724.	.571	2027.
	233.	5.334	17.34	1649.	.600	2400.
	234.	2.486	12.25	1215.	.571	2022.
	235.	5.409	18.89	1313.	.571	101.
	236.	5.334	14.46	1621.	.600	2341.
	237.	4.766	13.81	1112.	.571	1502.
	238.	3.467	28.47	10.	.571	2128.
	239.	2.907	13.33	1910.	.600	2306.
	240.	5.383	16.22	2003.	.600	2400.
	241.	4.263	24.76	432.	.571	2247.
	242.	2.485	12.57	1145.	.571	2245.
	243.	4.477	17.18	1220.	.600	1831.
	244.	5.566	16.13	1322.	.600	727.
4 METER	231.	7.031	24.37	822.	.571	2142.
	232.	4.581	16.84	1724.	.571	1044.
	233.	5.914	18.14	1636.	.600	2400.
	234.	2.276	13.39	1143.	.571	2022.
	235.	5.879	19.19	1314.	.571	103.
	236.	5.568	17.69	1621.	.600	2400.
	237.	4.789	16.56	322.	.571	1505.
	238.	3.634	30.51	8.	.571	1916.
	239.	3.054	15.98	1910.	.317	751.
	240.	6.141	21.17	2014.	.600	2400.
	241.	4.502	29.12	437.	.571	2247.
	242.	2.290	12.31	1524.	.571	2245.
	243.	4.840	17.29	1305.	.600	2022.
	244.	6.221	18.06	1048.	.600	2357.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	245.	5.047	18.08	2029.	.600	656.
	246.	2.338	9.68	1437.	.600	2354.
	247.	1.522	7.93	1249.	.571	2219.
	248.	3.257	19.61	2021.	.600	2353.
	249.	5.698	24.68	844.	.600	2204.
	250.	4.499	12.76	1719.	.600	1920.
	251.	6.571	20.58	1848.	.600	2337.
	252.	3.789	14.09	1457.	.571	2106.
	253.	7.446	26.74	347.	.600	2341.
	254.	2.073	7.56	1058.	.571	2003.
	255.	3.156	9.99	1233.	.600	2359.
	256.	2.297	14.24	1257.	.571	2206.
	257.	4.244	14.01	2340.	.571	735.
	258.	6.415	16.19	651.	.600	2256.
	259.	3.658	11.69	2040.	.571	827.
	260.	6.922	25.56	841.	.600	2234.
	261.	6.837	24.99	1124.	.600	2352.
	262.	3.285	11.83	1929.	.600	2357.
2 METER	245.	5.950	18.71	1947.	.600	605.
	246.	2.955	9.51	1457.	.571	2216.
	247.	2.131	8.32	1532.	.571	2219.
	248.	4.095	26.80	2014.	.600	2202.
	249.	6.792	21.17	931.	.600	2158.
	250.	5.325	14.09	1606.	.600	1950.
	251.	7.515	20.83	1848.	.600	2336.
	252.	4.478	14.41	121.	.600	2354.
	253.	8.730	34.44	347.	.600	617.
	254.	2.731	7.82	1058.	.600	2148.
	255.	3.926	12.88	1431.	.600	2346.
	256.	3.021	12.42	1615.	.571	2206.
	257.	5.017	15.17	2113.	.571	742.
	258.	7.224	17.21	1021.	.600	1849.
	259.	4.264	12.17	22.	.571	919.
	260.	8.010	28.02	1327.	.713	1842.
	261.	7.910	26.89	1056.	.600	2349.
	262.	3.992	12.65	2000.	.600	1246.
4 METER	245.	6.740	21.25	1442.	.571	646.
	246.	2.901	11.26	27.	.345	1317.
	247.	1.797	10.36	1249.	.571	2219.
	248.	4.343	28.13	2014.	.600	2321.
	249.	7.788	28.92	841.	.600	2158.
	250.	6.049	16.33	1604.	.600	1851.
	251.	8.900	22.61	1036.	.571	2337.
	252.	4.859	15.74	238.	.571	2106.
	253.	10.190	35.04	358.	.600	2241.
	254.	2.645	8.75	1052.	.571	1948.
	255.	4.160	13.61	1431.	.600	2346.
	256.	3.034	14.46	1040.	.571	2206.
	257.	5.589	16.95	2230.	.571	743.
	258.	8.200	19.50	443.	.600	2156.
	259.	4.584	14.18	22.	.571	819.
	260.	9.340	26.07	1527.	.600	2253.
	261.	9.190	26.72	1046.	.600	2348.
	262.	4.295	13.70	1709.	.600	2249.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	263.	7.599	21.03	1701.	.911	26.
	264.	7.413	22.39	1338.	1.958	1506.
	265.	6.349	18.85	817.	.600	2400.
	266.	4.696	16.84	1539.	.571	304.
	267.	5.600	19.50	128.	.571	2307.
	268.	2.773	12.14	1312.	.571	754.
	269.	1.348	10.39	1236.	.571	2011.
	270.	5.522	19.70	2357.	.571	439.
	271.	6.586	18.74	446.	.600	1511.
	272.	3.955	14.04	526.	.600	2347.
	273.	3.224	13.10	1440.	.600	1542.
	274.	4.098	12.31	353.	.600	2400.
	275.	2.920	12.65	1440.	.600	1753.
	276.	4.268	13.25	406.	.600	2339.
	277.	2.406	9.68	1338.	.571	1124.
	278.	6.229	20.86	2029.	.600	420.
	279.	2.972	15.03	1028.	.571	253.
	280.	3.593	13.92	1431.	.600	2400.
	281.	1.661	10.50	1512.	.571	1859.
	282.	8.020	24.20	1530.	.571	25.
2 METER	263.	8.660	23.72	1701.	1.732	53.
	264.	8.590	20.97	1134.	3.005	1942.
	265.	7.392	20.41	757.	.571	2143.
	266.	5.704	19.36	1514.	.571	300.
	267.	6.555	22.81	234.	.571	2308.
	268.	3.566	14.12	1338.	.571	753.
	269.	1.759	9.74	1236.	.571	2155.
	270.	6.249	19.27	2357.	.571	438.
	271.	7.647	19.84	638.	.600	1511.
	272.	4.656	16.95	526.	.600	2316.
	273.	3.988	13.30	2328.	.600	1409.
	274.	4.927	13.92	353.	.600	1425.
	275.	3.593	14.38	1438.	.600	1701.
	276.	5.036	13.73	329.	.600	2316.
	277.	3.146	13.33	1308.	.571	1131.
	278.	7.191	21.51	2018.	.600	417.
	279.	3.888	14.89	1300.	.600	2314.
	280.	4.278	14.43	1445.	.600	2351.
	281.	2.408	10.67	1446.	.571	16.
	282.	9.120	27.90	1014.	.600	215.
4 METER	263.	10.240	23.89	1701.	.656	53.
	264.	10.130	22.47	1538.	3.147	1942.
	265.	8.700	22.13	842.	.600	2400.
	266.	6.532	20.80	1601.	.571	305.
	267.	7.472	21.99	234.	.571	2309.
	268.	3.960	15.45	1221.	.571	755.
	269.	1.670	10.25	1549.	.571	2155.
	270.	7.426	23.89	2356.	.571	439.
	271.	8.980	22.39	638.	.600	2342.
	272.	4.995	15.71	526.	.600	2356.
	273.	4.404	16.56	1445.	.573	1406.
	274.	5.593	15.00	226.	.600	2400.
	275.	3.708	17.72	1438.	.600	1814.
	276.	5.710	15.17	1022.	.600	2353.
	277.	3.249	14.04	1308.	.571	1137.
	278.	8.450	25.67	2012.	.600	2357.
	279.	4.111	18.38	1259.	.571	2027.
	280.	4.592	15.25	415.	.600	2359.
	281.	2.351	12.65	1512.	.571	1900.
	282.	18.560	26.26	1442.	.571	415.

Table 3. Raft station: (1) Daily average wind speed at three levels above the lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. [continued]

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	283.	7.194	23.26	541.	.600	2342.
	284.	5.999	18.14	523.	.600	2324.
	285.	4.536	15.54	1458.	.600	2229.
	286.	4.282	11.52	1546.	.571	1748.
	287.	3.717	11.43	129.	.571	1954.
	288.	5.751	18.85	1302.	.600	2400.
	289.	5.741	18.14	834.	.571	2307.
	290.	2.972	18.03	1244.	.600	2345.
	291.	4.771	15.68	649.	.600	2241.
	292.	5.831	14.24	2020.	1.449	44.
	293.	4.335	14.18	915.	.571	1759.
	294.	2.451	10.16	205.	.571	1209.
	295.	.949	6.01	1349.	.571	2114.
	296.	3.611	11.63	1101.	.571	224.
	297.	4.095	14.63	1642.	.571	2313.
	298.	3.147	22.16	1542.	.571	2328.
	299.	2.560	11.43	1255.	.571	1827.
2 METER	283.	8.310	27.28	533.	.600	2110.
	284.	6.914	23.12	511.	.600	2312.
	285.	5.457	15.06	1230.	.600	530.
	286.	5.145	11.89	2327.	.600	1044.
	287.	4.545	12.31	328.	.600	2208.
	288.	6.495	19.92	1145.	.600	2400.
	289.	6.636	18.91	1734.	.571	2306.
	290.	3.830	15.28	1314.	.600	2315.
	291.	5.451	15.31	1114.	.600	2241.
	292.	6.638	15.78	1933.	2.071	134.
	293.	5.173	14.55	915.	.600	1950.
	294.	2.922	10.13	259.	.571	1209.
	295.	1.349	7.48	1304.	.571	2114.
	296.	4.269	12.28	1101.	.571	220.
	297.	4.839	17.24	1645.	.571	2308.
	298.	4.152	21.00	1546.	.571	913.
	299.	3.332	11.60	2244.	.571	1827.
4 METER	283.	9.810	27.99	12.	.600	2358.
	284.	8.120	23.15	511.	.600	2317.
	285.	6.260	17.33	1339.	.600	646.
	286.	5.841	13.22	2327.	.600	1044.
	287.	5.146	14.18	326.	.571	1954.
	288.	7.331	21.23	1302.	.600	2400.
	289.	7.754	21.08	1107.	-.503	100.
	290.	4.253	18.76	1244.	.600	2345.
	291.	5.965	15.08	1157.	.600	2241.
	292.	7.627	16.05	1220.	1.873	134.
	293.	5.906	17.91	915.	.600	2149.
	294.	3.197	11.15	131.	.571	1209.
	295.	1.168	7.25	1304.	.571	2114.
	296.	4.850	13.47	1113.	.571	222.
	297.	5.499	17.43	1655.	.571	2313.
	298.	4.417	21.28	1542.	.571	2328.
	299.	3.651	13.64	1252.	.571	1827.

Table 4. Land station: (1) Daily average dry- and wet-bulb air temperatures; and (2) daily maximum and minimum dry-bulb air temperatures and the time they occurred.

[c, degrees celsius]

DATE	DRY BULB AIR (C)	MAXIMUM AIR (C)	TIME OF MAXIMUM	MINIMUM AIR (C)	TIME OF MINIMUM	WET BULB AIR (C)
150.	11.02	16.56	1328.	6.98	412.	8.56
151.	12.95	20.87	1805.	4.51	437.	8.90
152.	12.80	21.49	1543.		1307.	6.77
153.	15.33	23.86	1207.	6.62	409.	11.42
154.	14.84	21.40	1855.	9.26	2151.	11.69
155.	11.71	16.56	1619.	6.36	443.	9.58
156.	10.52	17.18	1508.	3.19	2233.	6.92
157.	13.44	21.49	1547.	3.37	6.	7.44
158.	13.50	24.56	1513.	.56	438.	7.99
159.	15.45	22.45	1441.	5.92	2358.	11.47
160.	14.81	25.80	1447.	2.58	426.	10.52
161.	18.73	29.93	1450.	11.90	19.	15.56
162.	22.06	28.52	1546.	16.21	444.	18.20
163.	20.52	23.95	831.	17.79	120.	18.73
164.	20.53	25.27	1516.	14.89	2312.	18.04
165.	13.85	18.23	1859.	10.40	2232.	13.13
166.	10.99	14.80	929.	9.08	2339.	9.75
167.	11.76	19.57	1501.	4.95	2400.	9.17

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
168.	15.87	23.42	1524.	2.93	426.	9.95
169.	16.02	24.04	1229.	5.57	442.	12.83
170.	19.65	26.24	1339.	12.60	428.	16.25
171.	20.64	26.59	1311.	16.91	300.	18.13
172.	21.45	26.94	1709.	17.62	917.	19.53
173.	22.56	27.12	1102.	14.19	2359.	19.07
174.	20.77	29.23	1459.	10.75	436.	16.15
175.	21.72	30.90	1508.	16.03	3.	19.53
176.	25.36	31.16	1705.	19.02	349.	21.22
177.	21.78	28.43	1417.	13.04	2356.	18.58
178.	16.12	20.87	1643.	10.05	2127.	12.38
179.	15.49	24.12	1534.	4.95	452.	11.57
180.	14.76	17.44	2357.	13.04	16.	13.35
181.	19.44	24.30	1425.	15.85	2356.	17.12
182.	18.76	26.32	1907.	12.60	434.	15.90
183.	18.74	25.88	1341.	14.54	402.	17.57
184.	18.50	23.16	1110.	14.71	2352.	17.45
185.	14.48	20.17	1336.	7.50	2400.	12.53
186.	15.17	21.05	1918.	4.25	426.	9.87
187.	20.55	29.05	1426.	8.47	223.	16.96

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
188.	24.58	31.34	1636.	19.02	209.	20.24
189.	26.55	38.27	1437.	18.94	443.	22.93
190.	23.83	31.16	1443.	19.11	458.	21.25
191.	26.18	33.56	1458.	17.88	415.	21.66
192.	19.64	23.95	120.	14.01	2400.	15.16
193.	22.30	30.99	1651.	11.72	407.	16.60
194.	26.22	33.98	1428.	17.18	422.	21.56
195.	27.76	35.74	1349.	21.23	454.	22.99
196.	25.87	31.16	1527.	20.61	415.	21.89
197.	22.12	27.47	1402.	15.77	2352.	19.89
198.	19.12	25.97	1830.	12.95	457.	17.70
199.	21.58	29.05	1746.	14.98	1.	19.40
200.	22.07	30.46	1838.	14.62	502.	20.07

Table 4. Land station: (1) Daily average dry- and wet-bulb air temperatures; and (2) daily maximum and minimum dry-bulb air temperatures and the time they occurred. [continued]

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
201.	22.51	29.31	1346.	14.98	435.	20.61
202.	24.71	30.02	1418.	21.13	2350.	22.59
203.	23.53	29.93	1235.	16.30	2400.	19.61
204.	19.20	26.59	1606.	12.25	459.	16.29
205.	19.28	27.91	1811.	11.46	454.	16.10
206.	19.82	28.52	1815.	10.84	424.	16.14
207.	21.75	29.40	1447.	11.81	513.	18.14
208.	23.38	29.75	1606.	19.11	2352.	20.59
209.	23.21	30.81	1520.	17.44	2400.	20.56
210.	22.83	31.51	1536.	14.10	454.	18.51
211.	20.13	27.38	1540.	15.77	2400.	18.78
212.	18.02	24.12	1636.	12.07	442.	15.43
213.	19.76	28.87	1337.	10.40	511.	16.36
214.	19.91	25.53	1623.	14.10	124.	18.71
215.	24.50	32.31	1439.	18.41	213.	21.77
216.	23.92	31.51	1608.	16.65	436.	20.84

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
217.	25.08	32.48	1346.	17.44	318.	21.96
218.	24.51	34.06	1723.	15.15	512.	19.49
219.	27.41	35.38	1521.	13.85	413.	20.40
220.	21.17	28.43	1444.	12.16	2312.	16.35
221.	16.88	22.37	1439.	11.11	427.	15.75
222.	19.18	24.92	1728.	13.39	2253.	17.02
223.	18.02	25.36	1428.	10.93	2400.	15.25
224.	19.90	28.43	1404.	10.05	517.	16.82
225.	21.82	27.73	1707.	14.89	2400.	19.49
226.	20.93	31.07	1704.	10.93	536.	18.49
227.	23.68	33.62	1803.	16.12	517.	21.42
228.	18.19	23.60	1451.	12.34	547.	16.94
229.	23.01	32.48	1727.	17.88	106.	21.12
230.	23.51	31.87	1509.	17.79	221.	21.62

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
231.	19.61	25.97	1427.	8.64	2336.	18.41
232.	16.79	25.00	1526.	8.03	314.	15.00
233.	19.50	26.48	1158.	12.69	2400.	18.14
234.	17.71	26.68	1517.	9.26	517.	16.57
235.	20.17	27.29	1455.	12.16	209.	18.77
236.	22.25	28.96	1643.	17.97	521.	20.47
237.	25.94	35.30	1356.	16.91	446.	24.65
238.	23.40	31.60	1611.	16.38	2352.	22.28
239.	22.61	33.62	1324.	13.48	549.	21.58
240.	24.47	33.62	1455.	16.91	501.	22.67
241.	19.15	26.59	1439.	16.56	2355.	21.57
242.	21.49	30.57	1545.	14.45	2554.	21.65
243.	20.51	28.84	1218.	14.01	100.	20.70
244.	24.00	33.45	1547.	15.15	521.	24.19

Table 4. Land station: (1) Daily average dry- and wet-bulb air temperatures; and (2) daily maximum and minimum dry-bulb air temperatures and the time they occurred. [continued]

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
245.	27.33	37.23	1503.	17.88	600.	27.57
246.	21.42	26.50	1153.	14.62	2400.	21.69
247.	17.21	24.39	1153.	12.25	2351.	17.42
248.	16.29	25.18	1326.	10.31	541.	16.61
249.	12.75	16.38	1051.	8.29	538.	12.97
250.	17.96	26.15	1537.	12.87	434.	18.23
251.	23.38	30.90	1501.	15.33	208.	23.59
252.	19.58	26.24	1600.	15.42	2217.	19.83
253.	15.07	18.94	1350.	8.38	2357.	15.41
254.	7.96	11.90	1133.	3.02	558.	8.13
255.	10.34	17.18	1334.	4.07	546.	10.65
256.	10.09	18.76	1337.	2.76	2400.	10.39
257.	9.74	17.35	1233.	1.17	538.	9.94
258.	10.45	11.11	1111.	9.26	2400.	10.64
259.	10.47	13.92	1300.	8.64	439.	10.68
260.	12.70	17.00	1520.	9.52	8.	12.94
261.	9.80	14.98	1519.	3.55	2245.	10.13
262.	6.99	10.49	1340.	4.07	153.	7.18

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
263.	5.44	7.85	1310.	4.34	446.	5.67
264.	4.70	8.82	1343.	2.76	1452.	4.94
265.	2.88	6.27	1219.	-3.05	2232.	3.06
266.	6.00	16.30	1544.	-3.31	556.	6.14
267.	11.41	21.05	1535.	3.46	2345.	11.74
268.	14.15	26.32	1601.	1.35	624.	14.28
269.	13.79	26.32	1455.	4.16	631.	
270.	16.93	27.03	1557.	4.95	335.	
271.	18.90	25.53	1232.	12.69	2400.	
272.	10.11	12.60	6.	8.38	712.	
273.	15.04	19.02	2217.	10.67	19.	
274.	14.30	18.76	29.	9.35	2356.	
275.	9.88	12.34	1214.	8.82	620.	
276.	8.98	10.67	1427.	6.98	2327.	
277.	9.44	14.01	1251.	7.41	2223.	
278.	8.06	11.72	1053.	2.76	2400.	
279.	6.07	13.83	1550.	-1.81	624.	
280.	5.43	7.94	408.	-1.55	2400.	
281.	4.08	16.03	1617.	-3.13	437.	
282.	7.50	14.54	1420.	-2.54	103.	

DATE	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
283.	9.21	11.37	2400.	7.68	1111.	
284.	5.71	11.72	138.	-3.84	2257.	
285.	1.45	7.50	1422.	-1.46	530.	
286.	2.05	3.55	1257.	.38	611.	
287.	4.32	14.10	1541.	-1.64	2137.	
288.	4.95	5.83	2400.	3.72	704.	
289.	4.62	9.79	1457.	-1.73	2358.	
290.	4.60	12.16	1348.	-2.45	642.	
291.	3.83	5.22	5.	2.84	726.	
292.	5.93	7.50	1241.	3.90	4.	
293.	5.93	12.60	1434.	.47	2053.	
294.	6.36	10.49	1327.	3.63	1.	
295.	7.25	16.91	1500.	-.23	2315.	
296.	3.00	9.08	1541.	-1.99	404.	
297.	5.08	10.31	1536.	-1.52	2400.	
298.	4.39	14.36	1439.	-4.19	656.	
299.	6.05	15.42	1519.	-2.78	615.	

Table 5. Land station: (1) Daily average wind speed;
(2) daily maximum and minimum wind speed and
the time they occurred; and (3) daily total
precipitation.

[mph, miles per hour; in, inches]

DATE	WINDQ2M DAILY AVE (mph)	WINDQ2M DAILY MAX (mph)	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MIN (mph)	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL (in)
150.	3.364	19.67	1256.	.260	1601.	0.00
151.	2.362	15.08	1151.	.543	955.	0.00
152.	1.982	12.20	1453.	.543	1621.	0.00
153.	1.794	9.76	1917.	.600	2400.	0.00
154.	3.398	20.63	1329.	.600	2323.	.69
155.	3.697	13.87	803.	.600	2400.	.02
156.	3.277	16.08	1046.	.571	548.	0.00
157.	3.570	27.20	1647.	.571	2250.	0.00
158.	2.602	12.08	1720.	.571	343.	0.00
159.	3.823	17.46	1209.	.571	2259.	.01
160.	2.190	9.99	1732.	.571	543.	0.00
161.	3.117	12.96	1201.	.600	2239.	.37
162.	2.641	10.39	1617.	.600	2400.	.07
163.	2.842	11.07	555.	.600	2130.	.83
164.	3.770	16.10	234.	.600	2338.	2.50
165.	2.757	14.04	1022.	.571	2225.	1.44
166.	6.409	20.60	1403.	.571	129.	.01
167.	3.914	13.56	1041.	.571	2106.	0.00

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
168.	1.823	7.98	1334.	.571	404.	0.00
169.	2.888	14.29	1424.	.600	2342.	0.00
170.	3.404	13.98	1423.	.600	2334.	0.00
171.	2.924	11.04	1334.	.600	2359.	0.00
172.	2.490	10.59	2353.	.600	2352.	.35
173.	5.442	21.45	1439.	.571	2340.	0.00
174.	2.058	8.77	1442.	.571	516.	0.00
175.	2.100	10.27	541.	.571	317.	.21
176.	3.855	17.41	1158.	.600	2357.	0.00
177.	1.765	12.93	1349.	.571	343.	.26
178.	5.151	14.29	559.	.543	22.	0.00
179.	3.697	13.90	1416.	.600	2226.	0.00
180.	4.629	11.29	2218.	.600	2258.	.76
181.	4.139	15.91	1622.	.600	2359.	.42
182.	2.806	12.65	1314.	.600	2359.	0.00
183.	3.247	14.38	2040.	.600	2336.	3.56
184.	2.858	20.86	2255.	.600	2047.	.12
185.	5.816	18.45	727.	.600	2400.	.11
186.	2.296	13.27	1434.	.571	644.	0.00
187.	2.366	15.20	1546.	.515	844.	0.00

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
188.	2.985	13.73	402.	.600	2311.	0.00
189.	2.464	9.22	2342.	.572	345.	0.00
190.	3.932	10.08	2040.	.600	1914.	0.00
191.	2.807	13.25	1309.	.571	2104.	0.00
192.	6.622	23.57	1424.	.571	2246.	0.00
193.	2.816	15.76	1247.	.600	2400.	0.00
194.	2.525	10.42	1438.	.600	2359.	0.00
195.	2.213	11.46	1524.	.525	1231.	0.00
196.	2.401	9.76	1705.	.600	2341.	0.00
197.	2.701	11.56	39.	.600	2400.	.47
198.	2.018	11.01	1538.	.600	2400.	.32
199.	1.974	9.14	1148.	.600	2400.	.01
200.	1.768	10.08	1035.	.571	2233.	.02

Table 5. Land station: (1) Daily average wind speed; (2) daily maximum and minimum wind speed and the time they occurred; and (3) daily total precipitation. [continued]

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
201.	2.596	20.29	946.	.543	1153.	.05
202.	3.247	12.85	1119.	.600	2338.	0.00
203.	2.833	14.46	1523.	.571	2214.	0.00
204.	3.051	18.54	956.	.600	2400.	0.00
205.	1.735	10.25	1146.	.600	2400.	0.00
206.	1.850	8.32	1040.	.571	125.	0.00
207.	2.084	11.58	1633.	.458	1337.	0.00
208.	1.923	9.45	554.	.571	2400.	0.00
209.	1.925	10.92	1715.	.571	2347.	0.00
210.	2.107	9.31	1250.	.571	603.	0.00
211.	2.045	12.00	549.	.571	154.	.54
212.	3.759	15.54	1251.	.600	2400.	0.00
213.	1.705	7.25	1043.	.345	2348.	0.00
214.	2.000	9.40	1540.	.571	350.	.11
215.	2.244	11.43	1306.	.034	2400.	0.00
216.	1.589	6.20	1116.	.543	2058.	0.00

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
217.	2.442	11.52	1257.	.543	212.	0.00
218.	1.701	7.50	1148.	.571	643.	0.00
219.	4.962	24.65	1349.	.600	2400.	0.00
220.	2.373	12.54	1331.	.600	2400.	0.00
221.	1.669	9.11	2104.	.458	1227.	.20
222.	3.157	12.82	1707.	.600	2400.	.20
223.	2.420	10.73	846.	.600	2400.	0.00
224.	2.112	9.28	1333.	.288	801.	0.00
225.	2.563	13.78	1442.	.571	2035.	.07
226.	1.634	6.94	1017.	.571	2346.	0.00
227.	1.354	8.38	1012.	.600	2400.	0.00
228.	2.333	15.11	1432.	.571	1951.	.32
229.	1.421	7.08	1434.	.543	1210.	0.00
230.	1.776	9.14	2117.	.571	2219.	0.00

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
231.	3.084	16.47	1442.	.543	121.	0.00
232.	1.989	9.88	1654.	.571	728.	0.00
233.	2.622	11.18	1601.	.600	2400.	.01
234.	1.476	8.92	1332.	.571	2302.	0.00
235.	2.074	9.93	1526.	.600	2400.	0.00
236.	2.777	13.02	941.		1136.	0.00
237.	2.169	10.52	247.	.600	2302.	0.00
238.	2.614	32.38	13.	.600	2400.	.10
239.	1.921	11.15	2353.	.571	110.	0.00
240.	3.063	12.68	1357.	.600	2400.	0.00
241.	2.542	9.65	1832.			.10
242.	2.240	13.30	1254.			0.00
243.	1.663	10.81	1214.			.13
244.	2.312	12.59	1034.			0.00

Table 5. Land station: (1) Daily average wind speed;
(2) daily maximum and minimum wind speed and
the time they occurred; and (3) daily total
precipitation. [continued]

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
245.	2.573	19.22	2021.			0.00
246.	1.662	6.57	27.			0.00
247.	1.118	5.35	1617.			.28
248.	2.052	19.36	2034.			.05
249.	5.069	21.25	1002.			.01
250.	2.791	11.35	1027.			0.00
251.	2.899	17.97	1447.			0.00
252.	2.603	10.30	1221.			0.00
253.	6.792	23.63	357.			.29
254.	1.390	7.15	1102.			.48
255.	2.135	8.49	1205.			.01
256.	1.610	8.80	1335.			0.00
257.	2.224	10.95	1950.			.03
258.	5.250	14.24	2219.			.95
259.	3.709	11.18	210.			0.00
260.	3.533	12.62	837.			.04
261.	6.650	22.27	1414.			0.00
262.	2.013	8.04	1615.			.02

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
263.	6.493	17.55	1215.			.03
264.	6.494	17.15	1232.			.03
265.	4.589	18.00	827.			0.00
266.	2.191	15.57	1132.			0.00
267.	2.544	12.11	119.			0.00
268.	1.758	15.11	1435.			0.00
269.	1.580	8.69	1123.			0.00
270.	2.254	10.56	2253.			0.00
271.	3.297	12.23	205.			0.00
272.	3.542	10.16	1051.			.03
273.	1.798	9.20	1911.			.19
274.	2.262	9.17	1010.			.25
275.	2.735	14.94	1439.			.57
276.	2.932	10.47	1022.			.03
277.	1.478	5.86	1155.			.12
278.	5.570	17.15	1336.			0.00
279.	2.829	16.19	1055.			0.00
280.	3.699	14.18	226.			.04
281.	1.260	8.38	1513.			0.00
282.	2.646	16.95	1711.			0.00

DATE	WINDQ2M DAILY AVERAGE	WINDQ2M DAILY MAXIMUM	WINDQ2M TIME OF MAXIMUM	WINDQ2M DAILY MINIMUM	WINDQ2M TIME OF MINIMUM	PRECIP. TOTAL
283.	2.567	16.27	251.			.35
284.	5.163	20.55	444.			0.00
285.	3.033	17.91	1340.			.01
286.	2.663	9.25	2313.			.11
287.	3.457	10.61	20.			0.00
288.	6.552	23.57	511.			.13
289.	5.596	21.00	1154.			.10
290.	2.778	16.70	1125.			0.00
291.	6.686	16.30	1624.			0.00
292.	5.840	12.99	419.			.05
293.	3.424	12.65	656.			.03
294.	1.758	7.30	47.			0.00
295.	1.145	6.34	1347.			0.00
296.	1.505	8.38	1037.			0.00
297.	2.715	13.67	1635.			.05
298.	2.375	19.92	1326.			0.00
299.	2.249	16.27	1210.			0.00

Table 6. Land station: (1) Daily total short- and long-wave radiation;
(2) daily maximum short-wave radiation and the time it occurred;
and (3) daily maximum and minimum long-wave radiation and the
time they occurred.

[cal/cm²/day, calories per square centimeter per day]

DATE	SHORT WAVE TOTAL (cal/cm ² /day)	SHORT WAVE MAXIMUM (cal/cm ² /day)	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL (cal/cm ² /day)	LONG WAVE MAXIMUM (cal/cm ² /day)	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM (cal/cm ² /day)	TIME OF LONG MINIMUM
150.	384.7	1.838	1141.	634.0	.510	1251.	.356	349.
151.	644.6	1.703	1226.	589.8	.507	1039.	.345	536.
152.	431.7	6.935	1310.	700.8		1311.	.377	2400.
153.	418.5	1.674	1201.	638.7	.554	1339.	.368	352.
154.	566.6	1.654	1130.	653.8	.542	1041.	.361	2130.
155.	293.6	1.846	1232.	643.8	.517	1246.	.340	412.
156.	565.1	1.757	1223.	573.6	.477	1542.	.312	2203.
157.	718.9	1.370	1243.	542.4	.433	1329.	.295	2400.
158.	714.4	1.352	1247.	502.9	.428	1238.	.265	249.
159.	522.8	1.646	1056.	575.3	.528	1124.	.309	142.
160.	686.8	1.355	1246.	576.8	.477	1443.	.349	415.
161.	459.5	1.624	1059.	710.8	.582	1440.	.400	3.
162.	531.7	1.537	1223.	723.6	.589	1339.	.445	708.
163.	222.4	1.179	911.	653.2	.528	911.	.381	2350.
164.	280.3	1.641	1137.					
165.	172.1	.983	1638.					
166.	291.3	1.741	1044.					
167.	522.6	1.839	1148.					

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
168.	722.5	1.578	1129.					
169.	615.6	1.593	1230.	694.8	.585	1255.	.391	3.
170.	581.8	1.421	1118.	743.9	.597	1656.	.440	300.
171.	378.9	1.566	1257.	796.7	.624	1348.	.505	2116.
172.	331.9	1.653	1422.	815.4	.625	1629.	.529	7.
173.	690.2	1.447	1249.	771.9	.631	337.	.451	2223.
174.	710.5	1.352	1234.	740.2	.575	2400.	.472	709.
175.	384.8	1.400	1246.	807.6	.606	1511.	.505	137.
176.	629.0	1.435	1234.	806.7	.638	1457.	.505	457.
177.	473.1	1.503	1350.	775.3	.646	1009.	.442	2204.
178.	689.4	1.474	1227.	642.6	.535	523.	.379	2239.
179.	697.2	1.375	1159.	635.4	.510	1357.	.372	159.
180.	84.6	.296	1350.	782.0	.575	2306.	.440	2.
181.	482.8	1.687	1032.	777.1	.601	1201.	.449	2312.
182.	640.2	1.549	1359.	738.9	.589	1405.	.458	2141.
183.	264.7	1.721	1107.	805.9	.631	1338.	.482	17.
184.	219.6	1.270	1543.	796.6	.596	930.	.501	2006.
185.	358.9	1.641	1336.	721.8	.582	1336.	.368	2546.
186.	722.0	1.557	1039.	652.3	.480	651.	.386	2.
187.	678.0	1.417	1245.	749.3	.577	1551.	.456	3.

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
188.	417.2	1.705	1240.	805.5	.638	1501.	.491	209.
189.	660.3	1.543	1222.	829.6	.552	1225.	.515	455.
190.	618.9	1.277	1240.	798.1	.613	1320.	.510	2357.
191.	665.1	1.310	1208.	801.9	.608	1307.	.503	356.
192.	635.7	1.637	1340.	724.8	.585	1630.	.447	2356.
193.	695.3	1.336	1248.	744.2	.563	1401.	.449	15.
194.	657.0	1.278	1152.	797.4	.634	1257.	.468	312.
195.	626.1	1.273	1237.	814.0	.556	1347.	.515	456.
196.	517.0	1.723	1308.	804.8	.639	1309.	.501	413.
197.	399.4	1.540	1413.	810.9	.653	1424.	.479	2215.
198.	263.8	.890	819.	774.3	.600	1158.	.479	2125.
199.	463.7	1.828	1330.	803.5	.629	1530.	.498	2257.
200.	446.4	1.361	1008.	791.8	.613	1238.	.503	2212.

Table 6. Land station: (1) Daily total short- and long-wave radiation;
(2) daily maximum short-wave radiation and the time it
occurred; and (3) daily maximum and minimum long-wave
radiation and the time they occurred. [continued]

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
201.	363.5	1.799	1217.	828.4	.641	1339.	.533	4.
202.	314.2	1.433	1320.	876.1	.671	1417.	.545	2338.
203.	663.4	1.515	1258.	768.8	.613	1838.	.468	2348.
204.	598.5	1.748	1306.	743.2	.613	1306.	.466	2211.
205.	545.0	1.776	1211.	747.1	.622	1339.	.454	2152.
206.	649.5	1.366	1228.	736.1	.559	656.	.461	2231.
207.	507.4	1.614	1224.	775.5	.645	1348.	.461	338.
208.	301.2	1.039	1003.	816.0	.643	1444.	.515	523.
209.	458.4	1.436	1340.	827.2	.636	1340.	.521	2305.
210.	589.8	1.497	1248.	782.8	.636	1326.	.486	2004.
211.	319.5	1.689	1251.	808.0	.639	1538.	.472	2348.
212.	551.9	1.717	1214.	734.4	.603	1214.	.452	2153.
213.	648.1	1.300	1223.	739.1	.559	1337.	.472	2104.
214.	180.4	1.287	1439.	816.1	.617	1439.	.519	201.
215.	591.1	1.473	1251.	826.3	.643	1359.	.524	125.
216.	612.1	1.395	1247.	803.1	.618	1303.	.507	2139.

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
217.	579.2	1.448	1155.	853.7	.638	1518.	.524	240.
218.	623.0	1.268	1214.	753.4	.575	1240.	.466	541.
219.	617.0	1.262	1216.	800.0	.611	2208.	.500	2357.
220.	621.9	1.294	1214.	712.8	.584	153.	.445	2125.
221.	131.9	1.041	1204.	796.3	.592	1205.	.500	31.
222.	372.5	1.713	1230.	777.5	.627	1325.	.445	2400.
223.	623.2	1.324	1217.	699.9	.529	1222.	.435	2052.
224.	607.2	1.303	1204.	743.6	.556	1517.	.470	811.
225.	548.2	1.438	1327.	778.0	.624	1430.	.484	2138.
226.	596.4	1.247	1212.	746.4	.570	1616.	.473	2204.
227.	496.7	1.358	1154.	799.0	.603	1601.	.494	538.
228.	201.2	1.099	1443.	790.2	.596	1856.	.510	2022.
229.	530.5	1.526	1129.	809.6	.622	911.	.494	2317.
230.	370.9	1.606	1128.	824.5	.631	1554.	.489	111.

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
231.	435.7	1.494	1420.	729.4	.618	29.	.409	2008.
232.	322.0	1.733	1153.	754.9	.591	1351.	.473	152.
233.	246.8	1.467	1138.	806.6	.653	1157.	.440	2339.
234.	461.6	1.466	1231.	741.6	.564	1231.	.456	17.
235.	492.9	1.621	1234.	772.6	.608	1630.	.477	727.
236.	264.0	1.268	1337.	835.4	.655	1427.	.510	258.
237.	448.9	1.274	1217.	850.5	.678	1505.	.473	433.
238.	479.5	1.434	1240.	780.8	.629	9.	.482	450.
239.	457.7	1.573	1206.	803.6	.615	1356.	.508	2224.
240.	477.3	1.193	1139.	803.1	.634	1547.	.489	501.
241.	129.9	.784	1403.	748.1	.584	1724.	.505	2359.
242.	523.8	1.134	1227.	756.0	.534	300.	.482	2156.
243.	316.0	1.351	1220.	795.1	.639	1401.	.484	2400.
244.	494.3	1.114	1300.	776.0	.608	1420.	.479	333.

Table 6. Land station: (1) Daily total short- and long-wave radiation;
(2) daily maximum short-wave radiation and the time it
occurred; and (3) daily maximum and minimum long-wave
radiation and the time they occurred. [continued]

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
245.	476.1	1.104	1239.	824.0	.629	1320.	.514	242.
246.	194.0	1.201	1018.	780.3	.610	11.	.472	2210.
247.	129.3	1.045	916.	789.4	.603	1521.	.503	11.
248.	378.7	1.303	1340.	747.8	.578	214.	.437	2301.
249.	266.7	1.424	1153.	698.5	.540	1135.	.400	812.
250.	467.7	1.129	1232.	710.6	.540	817.	.426	423.
251.	415.2	1.232	1117.	796.6	.634	2000.	.459	20.
252.	373.3	1.414	1131.	781.7	.594	1046.	.489	2026.
253.	446.8	1.187	1224.	676.1	.592	331.	.375	2400.
254.	83.8	.633	1109.	671.4	.505	1109.	.365	229.
255.	368.3	1.361	1327.	657.8	.538	1332.	.407	1045.
256.	344.6	1.376	1329.	629.3	.515	1335.	.372	2040.
257.	275.5	1.048	1112.	690.5	.521	1448.	.428	110.
258.	38.7	.147	1447.	740.8	.522	947.	.501	37.
259.	96.3	.678	1239.	714.8	.522	1259.	.405	2316.
260.	186.6	1.096	1251.	747.3	.556	1124.	.449	8.
261.	460.8	1.071	1141.	579.6	.493	1.	.353	2102.
262.	128.9	.463	1308.	670.6	.491	1308.	.388	128.

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
263.	198.0	1.264	1231.	633.2	.475	1339.	.349	1741.
264.	249.4	1.426	1152.	631.4	.487	1321.	.354	556.
265.	190.1	.999	1017.	608.7	.465	1021.	.314	2101.
266.	445.3	1.035	1225.	558.1	.438	730.	.346	819.
267.	373.0	1.288	1151.	601.2	.533	1444.	.372	617.
268.	368.8	.773	1257.	665.0	.524	1546.	.421	2357.
269.	403.4	.977	1158.	645.7	.489	1316.	.414	253.
270.	361.6	.978	1153.	705.4	.575	1451.	.452	14.
271.	206.3	1.084	1210.	778.2	.613	1317.	.486	331.
272.	80.1	.269	1026.	732.5	.522	2400.	.432	114.
273.	74.7	.652	1119.	778.8	.584	1541.	.501	2111.
274.	135.2	1.083	1301.	777.2	.578	22.	.468	1315.
275.	79.1	.768	1125.	737.6	.538	1127.	.500	703.
276.	89.0	.427	1330.	711.3	.510	3.	.395	2304.
277.	125.5	1.301	1246.	706.6	.510	1250.	.424	2111.
278.	186.6	1.213	1123.	636.9	.505	1125.	.328	2400.
279.	365.0	.957	1158.	588.3	.477	2229.	.321	55.
280.	44.6	.526	1258.	660.5	.498	1257.	.363	1927.
281.	362.3	.924	1218.	549.9	.449	753.	.333	2033.
282.	276.6	1.191	1216.	619.2	.519	1145.	.365	758.

DATE	SHORT WAVE TOTAL	SHORT WAVE MAXIMUM	TIME OF SHORT MAXIMUM	LONG WAVE TOTAL	LONG WAVE MAXIMUM	TIME OF LONG MAXIMUM	LONG WAVE MINIMUM	TIME OF LONG MINIMUM
283.	22.2	.104	1233.	728.3	.529	2358.	.475	57.
284.	340.9	.893	1234.	556.0	.529	134.	.302	2157.
285.	244.1	.901	1210.	583.7	.451	2147.	.312	1114.
286.	104.0	.391	1244.	645.8	.463	1209.	.433	602.
287.	337.5	.868	1202.	535.0	.454	36.	.305	644.
288.	37.6	.225	1252.	664.8	.482	2400.	.353	4.
289.	194.8	1.074	1134.	621.4	.486	559.	.316	2235.
290.	275.8	1.082	1252.	610.0	.491	1421.	.347	829.
291.	45.1	.386	1051.	659.9	.472	1205.	.437	426.
292.	41.4	.277	1222.	676.4	.486	1241.	.407	452.
293.	179.7	1.036	1147.	624.8	.491	1144.	.551	2051.
294.	93.0	.414	1226.	679.9	.501	1329.	.393	1741.
295.	187.9	.995	1129.	630.0	.482	620.	.367	1956.
296.	106.6	.416	1531.	630.8	.484	1334.	.344	1821.
297.	61.4	.411	1416.	616.6	.500	1412.	.309	2346.
298.	220.5	.953	1300.	434.0	.466	1251.	.304	133.
299.	265.3	.764	1155.	553.4	.435	1455.	.335	129.