CLIMATIC DATA FOR MIRROR LAKE, WEST THORNTON, NEW HAMPSHIRE, 1981-82

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METRIC CONVERSION FACTORS

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
meter	3.281	feet
kilometer	0.621	mile
centimeter	.394	inch
millibar	.0145	pound per square inch
millibar	1.0197	gram per square centimeter
mile per hour	1.609	kilometer per hour
calorie per square centimeter per day	278.96	watt per square meter
calorie per square centimeter per day	25.913	watt per square foot

To convert degrees Celsius (°C) to degrees Fahrenheit (°F) use the following formula: $(^{\circ}\text{C} \times 9/5) + 32 = ^{\circ}\text{F}$.

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ABSTRACT

Research on the hydrology of Mirror Lake, West Thornton, New Hampshire, includes study of evaporation. Presented here are those climatic data needed for energy-budget and mass-transfer evaporation studies, including: water-surface temperature, dry-bulb and wet-bulb air temperatures, vapor pressure at and above the water surface, wind speed, and short- and long-wave solar radiation. Data are collected at raft and land stations.

INTRODUCTION

Climatic data are being collected at Mirror Lake, West Thornton, New Hampshire, as part of a continuing study of the hydrology of the lake by the U.S. Geological Survey, Cornell University, and the institute of Ecosystem Studies, the New York Botanical Garden. Mirror 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 Mirror Lake is given by Winter (1984).

DATA COLLECTION AND PRESENTATION

Data presented here are being collected principally for studies of evaporation; therefore, data are collected only during the time the lake is ice-free. Data for 1981 were collected from June 3 (Julian day 154) to November 30 (Julian day 334); and data for 1982 were collected from June 4 (Julian day 155) to December 2 (Julian day 336). Although the lake was ice-free both years in early May, instruments were not set up until the days stated. For both years, data were collected until the lake surface froze. Within each table of data, the data are grouped according to energy-budget periods; the periods are defined by the dates thermal surveys were made in the lake. For example, the first energy-budget period for 1982 is Julian days 155 through 161.

Climatic instruments are located on a raft near the middle of the lake, and at a land station. Instruments on the raft include anemometers at 1, 2, and 3 meters above the water surface, a thermistor psychrometer with dry- and wet-bulb temperature sensors fixed at 2 meters above the water surface, and a water-temperature sensor located beneath the raft at a depth of about 1 centimeter. Data from the above sensors are recorded by a Campbell CR-21¹ digital data logger located on the raft. The data logger scans the sensors every minute and calculates an hourly average. In addition, beginning in 1982, maximum and minimum values and the times they occur are saved and recorded at midnight of each day for selected sensors. Additional analog instruments for measuring water-surface temperature and wind speed also are located on the raft. These are used to back up the primary instruments for quality control and for filling in missing data.

The land station consists of short- and long-wave radiometers located at the U.S. Forest Service Hubbard Brook Station, about 0.4 kilometer west of Mirror Lake. These data also are recorded by a digital-data logger that operates similarly to the one on the raft. A backup hygrothermograph that records air temperature and relative humidity is located on the shore of Mirror Lake. Calibration checks with laboratory-quality thermometers and motorized psychrometers are made weekly.

Data presented here are daily summaries. For periods during which the primary instruments were not operating properly, daily values were obtained by regression using data from backup instruments provided a significant statistical relationship could be established. Data used to establish regressions were selected so they bracketed the period of missing or inadequate data. Only tables 1 and 2, which are considered to be the primary source of data for evaporation studies, include values obtained by regression. These are noted by footnotes, and the regressions referred to are:

Regression	Data Points	r ² value
1. $Y = 88.735 + 1.108x$	25	0.958
2. $Y = 1.335 + 0.975x$	60	0.983
3. $Y = -8.347 + 1.336x$	60	0.850
4. $Y = 1.423 + 0.936x$	60	0.976
5. $Y = 1.514 + 0.926x$	15	0.952
6. $Y = 0.734 + 1.029x$	15	0.986

Vapor pressure of water (e_w) is calculated by 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 to T. C. Winter.

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

ACKNOWLEDGMENTS

We are grateful to Robert Pierce and Wayne Martin of the U.S. Forest Service for allowing us to place the radiation station at Hubbard Brook Experimental Forest headquarters. We also thank Polly Ann Frost for permission to place the hygrothermograph on her property. Partial funding for this study is from a National Science Foundation grant to G. E. Likens (Institute of Ecosystem Studies, the New York Botanical Garden) and F. H. Bormann (Yale University).

REFERENCE

Winter, T. C., 1984, Geohydrologic setting of Mirror Lake, West Thornton, New Hampshire: U.S. Geological Survey Water-Resources Investigations Report, WRI 84-4266, p.

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation.
[C, degrees Celsius; mb, millibars; mph, miles per hour; calories/square cm/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 EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
154		14.700	13.230		14.225	
155		17.546	16.265		17.634	
156		20.037	16.465		16.349	
157		16.851	15.248		16.257	
158		14.323	11.117		11.106	
159		15.450	11.345		10.714	
160		16.142	13.711		14.072	
161		16.111	11.902		11.147	
162	20.295	16.069	12.918	23.806	12.806	0.232
163	20.402	16.355	13.258	23.964	13.175	.226
164	20.765	17.324	14.138	24.506	14.011	.198
165	20.933	17.347	14.882	24.760	15.282	.228
166	21.755	19.743	18.033	26.040	19.537	.186
167	23.600	23.540	21.530	29.124	24.341	.008

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE (calories/square cm/day)
154					
155					
156					
157					
158					
159					
160					
161					
162	4.551	4.569	5.200		
163	4.073	4.069	4.655		
164	4.260	4.253	4.870		
165	2.719	2.655	3.333		
166	1.664	1.421	2.145		
167	1.934	1.965	2.645		

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
168	23.128	20.994	17.126	28.306	16.953	0.113
169	22.869	19.662	15.516	27.866	14.869	.149
170	23.404	20.214	16.667	28.781	16.608	.158
171	22.847	18.155	17.433	27.828	19.428	.337
172	22.780	18.372	16.509	27.716	17.537	.261
173	21.876	16.586	15.589	26.233	17.042	.347
174	21.591	17.320	12.748	25.780	11.701	.183
175	21.678	15.949	11.932	25.918	11.301	.236
176	21.465	17.133	16.093	25.582	17.593	.327
177	21.018	15.382	13.046	24.890	13.470	.297
178	20.880	17.080	12.735	24.680	11.839	.178
179	21.527	18.047	13.590	25.679	12.606	.160
180	22.320	19.037	14.811	26.952	14.037	.153
181	22.770	19.340	15.340	27.699	14.769	.160

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE (calories/square cm/day)
168	5.081	5.231	5.927		
169	3.325	3.351	4.051		
170	2.641	2.599	3.328		
171	2.167	2.085	2.776		
172	2.317	2.300	2.982		
173	2.724	2.819	3.438		
174	5.576	5.720	6.412		
175	3.095	2.943	3.858		
176	1.806	1.614	2.524		
177	5.256	5.267	6.104		
178	5.627	5.548	6.416		
179	3.543	3.392	4.349		
180	2.805	2.763	3.742		
181	2.781	2.895	3.862		

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
182	23.931	21.903	18.595	29.709	19.214	0.114
183	24.695	21.717	18.968	31.100	20.091	.143
184	25.123	21.832	19.850	31.904	21.837	.197
185	24.973	21.593	20.188	31.421	22.711	.229
186	24.276	19.825	19.509	30.331	22.443	.341
187	24.444	22.165	20.191	30.637	22.336	.165
188	24.686	22.901	18.525	31.084	18.410	.085
189	24.971	25.343	19.960	31.617	19.727	-.019
190	26.135	25.700	22.290	33.878	24.623	.028
191	25.988	22.545	17.545	33.585	16.723	.123
192	25.808	21.271	16.521	33.229	15.633	.155
193	25.886	20.207	14.936	33.383	17.117	.210
194	25.140	18.598	18.002	31.937	20.238	.337
195	24.424	17.438	15.534	30.601	16.378	.294
196	23.800	19.050	14.950	29.476	14.272	.188

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE (calories/square cm/day)
182	2.988	3.016	3.923		
183	3.355	3.280	4.299		
184	2.892	2.733	3.712		
185	2.311	2.060	3.038		
186	1.530	1.549	2.361		
187	2.935	2.879	3.871		
188	5.220	5.023	6.087		
189	4.586	4.759	5.599		
190	3.644	3.993	4.731		
191	4.043	4.369	5.221		
192	3.568	3.710	4.708		
193	2.103	2.020	3.905		
194	2.337	2.250	3.350		
195	4.694	5.285	6.045		
196	6.621	6.914	7.895		

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

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)	BOWEN RATIO
197	23.843	18.330	14.620	29.553	14.174	0.216
198	24.105	19.383	14.097	30.021	14.104	.204
199	23.911	19.580	17.628	29.674	18.856	.241
200	24.047	19.708	18.074	29.917	19.645	.255
201	23.662	18.959	18.679	29.232	21.344	.359
202	23.705	21.172	20.375	29.308	23.392	.258
203	23.342	18.006	14.935	28.674	14.938	.234
204	23.263	15.957	12.627	28.538	12.407	.273
205	23.682	16.804	13.555	29.268	13.372	.261
206	23.795	18.494	15.493	29.467	15.603	.230
207	23.618	19.141	17.908	29.155	19.693	.285
208	23.477	19.395	15.634	28.908	15.258	.180
209	23.591	17.083	14.392	29.108	14.606	.270
210	22.809	14.794	14.547	27.764	16.391	.425

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE (calories/square cm/day)
197	2.465	2.685	3.889		
198	1.733	2.085	3.230		
199	1.456	1.380	2.609		
200	2.164	2.532	3.578		
201	1.613	1.531	2.631		
202	2.006	2.275	3.333		
203	5.620	5.795	6.846		
204	3.649	3.627	4.893		
205	1.994	2.150	3.398		
206	2.202	2.363	3.469		
207	2.088	2.222	3.219		
208	5.679	5.973	6.782		
209	2.254	2.394	3.446		
210	1.701	1.910	2.890		

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
211	22.472	17.107	14.439	27.203	14.671	0.258
212	23.008	18.839	15.613	28.101	15.590	.201
213	23.722	19.945	16.591	29.338	16.645	.179
214	23.814	20.315	17.530	29.505	18.178	.186
215	24.167	21.049	18.654	30.133	19.901	.184
216	24.754	22.302	19.890	31.210	21.608	.154
217	24.282	19.903	19.443	30.341	22.274	.327
218	23.679	18.743	16.658	29.262	17.568	.254
219	23.129	17.058	14.536	28.307	14.871	.272
220	22.847	17.105	16.301	27.828	17.994	.352
221	22.882	19.877	19.504	27.888	22.418	.331
222	23.300	20.400	19.400	28.601	21.854	.259
223	23.836	21.007	19.265	29.540	21.171	.204
224	23.978	20.021	18.180	29.793	19.642	.235
225	23.317	17.329	15.756	28.631	16.850	.306
226	22.943	15.723	12.262	27.991	11.975	.272
227	22.392	15.342	15.022	27.071	16.858	.416
228	22.282	19.005	17.789	26.890	19.551	.269
229	21.600	14.200	13.800	25.794	15.508	.434

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE
211	5.331	5.575	6.532	553.560	21 684.570
212	2.823	3.039	4.008	620.380	692.390
213	2.319	2.500	3.473	627.370	706.370
214	2.902	2.171	3.158	490.540	734.700
215	2.056	2.170	3.019	390.510	746.250
216	2.911	2.431	3.438	519.170	762.080
217	1.529	1.600	2.642	178.980	740.310
218	7.742	7.584	8.404	430.000	716.470
219	6.874	6.576	7.443	527.790	688.320
220	1.276	1.339	2.496	200.280	701.750
221	1.373	1.491	2.516	149.490	740.660
222	21	21	21	482.020	744.240
223	2.200	2.126	3.257	433.630	748.600
224	2.210	2.218	3.229	471.090	734.910
225	3.141	3.160	4.189	262.670	701.720
226	3.132	3.053	4.197	577.520	649.260
227	1.500	1.339	2.567	104.240	682.050
228	2.961	3.095	3.976	242.240	724.630
229	21	21	21	249.160	667.550

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
230	20.909	16.404	12.202	24.724	11.429	0.204
231	21.586	16.608	14.143	25.772	14.494	.266
232	21.544	17.072	15.565	25.706	16.676	.298
233	21.695	18.354	15.560	25.945	15.816	.199
234	22.130	19.071	17.324	26.642	18.609	.229
235	22.569	19.440	17.017	27.363	17.780	.197
236	21.908	16.646	15.527	26.204	16.891	.338
237	21.674	15.021	13.736	25.911	14.856	.363
238	21.981	15.045	12.614	26.402	12.989	.312
239	21.378	14.452	13.541	25.446	14.906	.396
240	21.642	16.274	13.597	25.861	13.793	.268
241	21.624	16.827	15.268	25.832	16.308	.304
242	21.610	18.425	17.009	25.810	18.439	.260
243	21.473	18.456	17.709	25.595	19.761	.312
244	21.119	16.489	16.075	25.045	17.988	.395
245	21.153	17.663	16.441	25.097	17.882	.291
246	20.989	16.445	15.387	24.846	16.773	.339

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE (calories/square cm/day)
230	5.295	5.460	6.543	599.970	645.430
231	1.946	1.704	3.006	506.280	679.660
232	1.563	1.410	2.577	333.840	698.270
233	2.929	2.688	3.917	557.840	687.330
234	1.722	1.030	2.690	356.530	722.940
235	1.936	1.448	3.028	502.190	717.540
236	2.814	2.328	3.868	262.190	694.660
237	3.065	2.663	4.154	429.240	673.950
238	2.643	2.216	3.684	557.130	641.390
239	1.674	.993	2.697	212.510	668.670
240	2.301	1.894	3.332	520.970	663.800
241	1.694	1.412	2.720	361.330	695.010
242	1.510	1.281	2.517	270.220	716.130
243	1.504	1.275	2.486	116.570	719.690
244	1.364	.997	2.303	108.540	696.070
245	2.309	2.168	3.305	316.080	707.180
246	1.730	1.402	2.692	183.530	692.600

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
247	21.313	16.449	14.772	25.345	15.485	0.303
248	21.610	16.615	15.146	25.810	16.232	.314
249	21.442	16.245	14.973	25.546	16.173	.334
250	21.752	18.067	16.482	26.035	17.490	.266
251	21.757	19.018	17.885	26.043	19.730	.261
252	21.160	14.390	12.073	25.108	12.555	.325
253	20.626	10.819	9.512	24.297	11.017	.445
254	20.472	14.703	13.592	24.067	14.825	.376
255	20.288	14.832	13.819	23.795	15.121	.379
256	20.281	17.563	14.816	23.785	15.024	.187
257	20.406	16.707	15.868	23.969	17.466	.343
258	20.245	17.085	14.538	23.732	14.857	.215
259	19.840	13.988	13.277	23.145	14.774	.421

DATE	RAFT WIND @1M (mph)	RAFT WIND @2M (mph)	RAFT WIND @3M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE
247	2.575	2.296	3.579	481.830	674.920
248	2.090	1.504	3.120	477.880	678.750
249	2.372	1.941	3.381	404.990	687.310
250	2.482	2.183	3.505	468.160	697.910
251	2.530	2.491	3.594	115.760	725.220
252	4.853	5.039	6.017	416.440	653.540
253	2.784	2.531	3.836	366.480	620.920
254	2.458	2.263	3.518	281.590	670.750
255	2.163	1.937	3.189	190.780	672.940
256	3.599	3.559	4.738	455.890	680.010
257	1.771	1.449	2.732	236.050	696.850
258	3.552	3.390	4.664	365.310	692.630
259	1.576	.835	2.548	139.420	664.020

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
260	19.689	14.560	13.740	22.929	15.168	0.398
261	19.580	14.667	13.748	22.774	15.111	.386
262	19.190	11.780	11.337	22.228	13.125	.491
263	18.699	10.999	9.508	21.557	10.892	.435
264	18.360	10.281	8.312	21.104	9.657	.425
265	17.919	9.468	9.458	20.527	11.829	.585
266	17.438	10.860	10.582	19.914	12.577	.540
267	17.071	11.869	10.228	19.457	11.380	.388
268	16.725	12.500	9.464	19.034	9.839	.277
269	17.133	12.039	10.228	19.534	11.268	.371
270	17.398	14.755	14.103	19.864	15.654	.378
271	16.824	10.381	9.009	19.155	10.578	.453
272	15.826	6.658	3.513	17.974	5.797	.454

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square	SOLAR LONG WAVE cm/day)
260	1.807	1.449	2.785	188.990	670.430
261	1.599	1.149	2.586	176.370	671.300
262	2.957	2.524	4.082	95.600	639.360
263	3.091	2.824	4.143	224.320	625.870
264	3.263	2.926	4.358	371.400	602.170
265	1.882	1.297	2.884	14.670	615.210
266	2.797	2.640	3.783	51.130	629.620
267	5.667	5.883	6.918	153.460	634.970
268	5.254	5.315	6.337	368.250	622.700
269	1.835	1.557	2.767	397.370	609.300
270	1.572	1.398	2.484	226.590	673.520
271	3.751	3.778	4.835	163.920	619.450
272	7.090	7.742	8.528	205.850	571.000

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
273	15.054	5.688	2.591	17.105	5.334	0.479
274	14.334	6.683	4.312	16.331	6.757	.482
275	14.330	9.225	8.364	16.324	10.425	.521
276	14.004	8.402	7.074	15.983	9.192	.497
277	13.732	8.105	6.153	15.703	8.145	.450
278	13.653	8.335	6.614	15.622	8.622	.458
279	13.342	6.709	6.128	15.309	9.049	.639
280	13.198	7.657	6.650	15.166	9.115	.552
281	12.819	6.994	5.359	14.794	7.868	.507
282	12.400	6.800	4.668	14.393	7.123	.464
283	11.993	3.976	2.355	14.013	6.177	.617
284	11.671	2.620	1.143	13.718	5.670	.678
285	11.690	3.256	2.013	13.735	6.250	.679
286	11.689	5.865	3.850	13.734	6.725	.501
287	11.658	7.251	4.870	13.706	7.080	.401
288	11.681	7.909	5.767	13.727	7.792	.383

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE
273	7.705	8.353	9.087	448.970	447.540
274	5.747	5.975	6.944	202.710	575.520
275	2.342	2.070	3.399	262.090	606.780
276	5.306	5.686	6.530	124.380	598.080
277	4.031	4.215	5.226	243.110	592.260
278	2.087	1.989	3.137	220.340	595.740
279	1.565	.927	2.624	125.440	583.350
280	3.406	3.293	4.504	178.310	591.470
281	8.185	8.937	9.539	186.520	582.060
282	6.181	6.782	7.510	115.900	577.800
283	2.738	2.623	3.987	210.170	549.480
284	2.825	2.387	4.022	341.640	480.810
285	1.861	1.175	3.018	373.880	448.530
286	1.930	1.164	3.062	360.010	492.970
287	1.904	1.326	3.057	352.720	514.310
288	1.465	.991	2.567	292.610	566.130

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

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)	BOWEN RATIO
289	11.380	8.704	7.175	13.456	9.130	0.373
290	11.064	7.436	4.762	13.177	6.823	.344
291	10.769	4.731	4.600	12.921	8.394	.804
292	10.592	6.620	5.011	12.769	7.672	.470
293	10.440	4.751	2.743	12.640	6.126	.526
294	10.349	7.031	5.415	12.564	7.916	.430
295	10.615	9.772	8.546	12.789	10.321	.206
296	10.847	11.597	11.290	12.988	13.173	2.441
297	10.145	3.360	1.434	12.394	5.517	.595
298	9.750	2.073	1.048	12.070	5.920	.752
299	9.588	6.487	6.359	11.939	9.498	.766
300	9.627	8.599	8.599	11.970	11.168	.772
301	9.781	9.180	8.300	12.095	10.365	.209
302	9.508	3.269	2.452	11.875	6.752	.734
303	9.439	2.208	.972	11.820	5.747	.717
304	9.230	2.740	1.502	11.655	6.000	.692
305	9.063	4.898	4.060	11.524	7.616	.642
306	9.074	8.603	6.055	11.533	7.710	.074
307	8.808	5.355	1.838	11.327	4.676	.313
308	8.670	6.482	2.963	11.222	5.254	.221

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE (calories/square cm/day)
289	4.223	4.141	5.261	106.870	600.630
290	6.945	7.366	8.182	328.830	528.450
291	1.550	1.648	2.597	54.080	565.030
292	3.647	4.149	4.788	127.430	578.170
293	2.972	3.375	4.121	246.930	540.740
294	1.727	2.028	2.771	137.840	582.370
295	1.037	1.219	1.907	173.870	613.450
296	2.817	3.138	3.814	20.390	637.810
297	5.288	5.830	6.614	240.260	519.550
298	1.949	2.208	2.994	116.450	534.900
299	.924	1.037	1.777	38.060	583.100
300	.771	.868	1.487	33.350	605.800
301	4.550	4.897	5.743	138.590	608.520
302	1.917	2.125	2.919	177.480	540.400
303	1.718	1.747	2.612	288.310	446.570
304	1.696	1.859	2.740	287.860	449.740
305	1.826	1.964	2.754	134.230	563.850
306	4.881	5.043	5.900	245.950	564.070
307	4.949	5.235	6.059	260.880	499.710
308	5.335	5.618	6.452	245.620	524.490

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMP (C)	RAFT DRY BULB AIR TEMP (C)	RAFT WET BULB AIR TEMP (C)	VAPOR PRESSURE WATER EO (mb)	VAPOR PRESSURE ATMOSPHERE EA (mb)	BOWEN RATIO
309	8.748	4.143	2.540	11.281	4.271	0.551
310	8.481	5.622	5.396	11.079	8.816	.761
311	8.298	3.664	2.143	10.942	4.134	.581
312	7.903	3.326	.713	10.652	4.727	.465
313	7.609	1.522	.104	10.441	5.230	.704
314	7.190	-.406	-1.435	10.146	4.830	.861
315	7.021	1.791	1.485	10.029	6.600	.919
316	6.685	-1.126	-1.966	9.800	4.742	.931
317	6.397	-.273	-1.964	9.607	4.190	.742
318	6.349	1.803	.622	9.576	5.619	.692
319	6.337	7.590	5.367	9.568	7.488	-.363
320	7.126	10.371	9.600	10.101	11.441	1.460
321	7.638	8.681	8.661	10.461	11.202	.849
322	7.029	5.129	4.561	10.034	8.084	.587
323	6.382	3.679	2.358	9.597	6.374	.505

DATE	RAFT WIND 01M (mph)	RAFT WIND 02M (mph)	RAFT WIND 03M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE (calories/square cm/day)
309	1.281	1.353	2.278	246.470	501.560
310	1.132	1.291	2.042	26.560	573.730
311	6.479	6.948	7.730	142.420	546.120
312	6.638	7.093	7.997	243.070	478.560
313	4.186	4.543	5.375	87.170	528.020
314	2.978	3.390	4.199	231.140	447.940
315	1.862	2.116	2.826	51.540	535.830
316	5.703	6.283	7.043	229.520	430.600
317	1.777	2.098	2.860	220.010	447.360
318	1.078	1.191	2.051	192.230	501.580
319	2.793	3.156	3.910	78.480	585.760
320	1.799	2.082	2.779	85.310	422.100
321	1.364	1.559	2.196	50.630	606.550
322	3.565	3.964	4.717	44.630	567.390
323	5.970	6.623	7.278	77.110	549.760

Table 1. Summary of 1981 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at three levels above lake surface; Land station--daily total short- and long-wave solar radiation. (continued)

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)	BOWEN RATIO
324	6.168	2.427	2.154	9.457	6.955	0.901
325	6.057	2.982	2.511	9.384	7.009	.780
326	5.843	1.314	-.275	9.246	4.950	.635
327	5.513	-1.001	-1.038	9.037	5.638	1.155
328	5.178	-2.376	-2.663	8.829	4.836	1.140
329	4.723	-2.833	-2.833	8.553	4.960	1.267
330	4.350	-1.113	-1.833	8.333	4.873	.951
331	4.112	.093	.079	8.194	6.134	1.176
332	3.997	.304	-.407	8.129	5.467	.836
333	3.787	-1.354	-1.386	8.009	5.499	1.234
334	3.320	-3.070	-3.070	7.750	4.873	1.339

DATE	RAFT WIND @1M (mph)	RAFT WIND @2M (mph)	RAFT WIND @3M (mph)	SOLAR SHORT WAVE (calories/square cm/day)	SOLAR LONG WAVE
324	1.713	2.023	2.738		
325	2.797	3.275	3.883		
326	4.517	5.285	5.804		
327	3.554	4.280	4.820		
328	4.511	5.276	5.852		
329	6.051	6.941	7.533		
330	3.998	4.628	5.259		
331	1.242	1.661	2.227		
332	3.611	4.073	4.771		
333	7.581	7.971	9.142		
334	7.407	7.754	8.805		

¹Data on Days 222 and 229 were found by correlation with backup instruments.

²Solar long-wave radiation data were obtained using Brunt's equation for the entire year.

³Wind speed data for Days 222 and 229 were unobtainable.

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar radiation.

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)	BOWEN RATIO
155.	18.410	12.770	3.900	21.170	3.349	0.276
156.	17.930	12.420	11.260	20.542	12.583	.417
157.	17.480	14.010	11.260	19.967	11.533	.248
158.	17.120	13.390	10.460	19.517	10.724	.256
159.	18.020	16.100	10.920	20.659	9.632	.105
160.	19.250	17.050	11.150	22.311	9.336	.102
161.	19.770	18.200	12.520	23.044	10.730	.077

DATE	RAFT WIND 21M (mph)	RAFT WIND 22M (mph)	RAFT WIND 23M (mph)	SOLAR SHORT WAVE (calories / square cm/day)	SOLAR LONG WAVE (calories / square cm/day)
155.	3.054	3.232	3.137	337.1	654.7
156.	2.060	2.133	2.181	57.2	663.9
157.	3.767	4.156	3.902	219.0	675.8
158.	2.836	3.297	2.991	153.2	667.2
159.	2.482	2.707	2.612	628.2	674.3
160.	2.911	3.048	3.065	708.4	663.7
161.	3.173	3.402	3.370	350.7	675.5

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar 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	BOWEN RATIO
162.	19.670	14.590	10.200	22.902	9.543	0.229
163.	19.770	14.010	10.220	23.044	9.956	.265
164.	18.780	8.670	7.094	21.666	9.043	.483
165.	18.210	11.460	9.730	20.906	10.913	.407
166.	19.230	15.810	12.450	22.284	12.218	.205
167.	19.450	17.700	15.360	22.591	15.893	.157
168.	19.770	16.630	14.690	23.044	15.422	.248
169.	20.070	17.050	13.850	23.477	13.704	.186
170.	20.260	17.670	14.560	23.754	14.507	.169
171.	20.200	15.360	11.540	23.666	11.076	.232
172.	19.480	12.230	10.960	22.633	12.248	.421
173.	19.900	15.810	12.470	23.231	12.251	.224
174.	19.530	13.730	12.090	22.703	12.985	.357
175.	19.440	15.010	11.380	22.577	11.058	.232

DATE	RAFT WIND 81M	RAFT WIND 82M	RAFT WIND 83M	SOLAR SHORT WAVE	SOLAR LONG WAVE
162.	3.402	3.623	3.601	626.2	658.6
163.	3.890	4.156	4.064	599.5	658.5
164.	3.490	3.753	3.623	102.0	692.9
165.	2.335	2.341	2.387	337.5	682.4
166.	2.059	1.852	2.140	537.1	693.5
167.	2.512	2.549	2.700	336.1	774.6
168.	2.026	1.987	2.192	345.9	738.6
169.	2.800	2.960	3.031	529.2	707.5
170.	3.178	3.431	3.423	476.6	720.6
171.	4.673	5.003	4.937	532.4	672.0
172.	2.368	2.310	2.495	217.8	691.7
173.	2.541	2.504	2.688	542.4	684.6
174.	3.623	3.783	3.833	304.6	709.3
175.	4.162	4.379	4.369	565.8	658.8

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar 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	BOWEN RATIO
176.	19.180	13.900	12.490	22.214	13.546	0.367
177.	19.210	17.230	14.230	22.256	14.231	.149
178.	19.770	15.800	11.710	23.044	11.051	.199
179.	21.220	19.600	15.890	25.201	15.585	.102
180.	21.240	17.980	17.210	25.232	19.117	.321
181.	20.530	17.560	13.000	24.154	11.953	.147
182.	19.960	14.080	8.700	23.317	7.702	.227
183.	20.030	16.230	11.650	23.419	10.673	.190
184.	20.120	16.010	10.700	23.550	9.357	.175
185.	19.990	13.470	8.960	23.361	8.474	.264
186.	21.230	19.220	12.860	25.216	10.626	.083
187.	21.660	18.750	14.950	25.889	14.471	.154
188.	22.810	21.870	18.140	27.766	18.332	.060
189.	24.040	23.900	19.520	29.904	19.770	.008
190.	23.910	20.410	15.490	29.672	14.326	.137
191.	23.960	20.180	15.310	29.761	14.158	.146
192.	23.900	20.520	16.270	29.654	15.668	.146
193.	23.370	18.580	16.980	28.722	18.291	.276
194.	23.500	21.160	16.200	28.947	15.115	.102
195.	24.070	19.960	15.380	29.958	14.429	.159
196.	24.820	21.950	17.690	31.333	17.399	.124

DATE	RAFT WIND @1M	RAFT WIND @2M	RAFT WIND @3M	SOLAR SHORT WAVE	SOLAR LONG WAVE
176.	1.647	1.294	1.716	164.8	739.8
177.	3.413	3.520	3.606	346.0	725.4
178.	2.779	2.705	2.921	648.4	638.6
179.	2.308	2.175	2.451	630.3	766.9
180.	2.197	2.011	2.372	60.5	815.0
181.	5.345	5.726	5.585	575.7	692.7
182.	6.903	7.512	7.232	732.3	579.4
183.	4.422	4.342	4.675	573.1	666.4
184.	5.623	6.115	5.895	671.1	625.2
185.	4.435	4.675	4.631	664.4	582.8
186.	3.536	3.699	3.667	699.1	619.1
187.	2.369	2.454	2.423	571.9	676.4
188.	2.575	2.726	2.703	638.3	753.2
189.	3.306	3.498	3.505	632.0	779.5
190.	3.395	3.683	3.703	674.9	688.0
191.	2.791	2.963	3.018	660.9	684.2
192.	3.661	3.887	3.984	558.0	731.8
193.	1.719	1.963	1.718	92.8	790.7
194.	4.425	4.683	4.745	674.4	715.5
195.	2.839	3.013	3.012	692.3	669.9
196.	2.326	2.448	2.390	634.1	728.5

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station--daily total short- and long-wave solar 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	BOWEN RATIO
197.	25.290	23.020	19.370	32.223	20.046	0.112
198.	25.860	24.000	20.220	33.331	21.174	.092
199.	26.540	25.890	22.260	34.497	24.427	.033
200.	27.090	24.370	21.320	35.837	23.318	.131
201.	26.090	20.300	17.860	33.788	18.828	.233
202.	24.830	19.760	13.770	31.352	11.775	.156
203.	24.010	19.300	14.710	29.851	13.355	.154
204.	23.750	19.120	14.790	29.388	13.946	.181
205.	23.690	18.260	13.360	29.282	12.083	.190
206.	23.890	20.250	16.020	29.636	15.390	.154
207.	23.970	23.610	17.050	29.779	15.070	.015
208.	23.820	19.880	14.980	29.512	13.774	.151
209.	23.260	16.050	15.190	28.532	16.685	.367
210.	22.830	18.650	14.850	27.800	14.362	.187
211.	23.420	18.920	15.090	28.809	14.605	.191
212.	23.400	18.990	16.610	28.775	17.314	.232
213.	23.710	19.710	17.060	29.317	17.682	.207
214.	23.620	19.250	17.270	29.159	18.387	.244
215.	23.360	17.620	15.110	28.705	15.502	.262
216.	23.530	19.220	15.990	29.001	16.019	.200
217.	23.410	18.610	16.460	29.792	17.288	.251
218.	23.460	17.370	13.340	28.879	12.639	.226

DATE	RAFT WIND 01M	RAFT WIND 02M	RAFT WIND 03M	SOLAR SHORT WAVE	SOLAR LONG WAVE
197.	2.365	2.545	2.535	502.4	757.8
198.	2.171	2.348	2.312	541.7	787.7
199.	3.118	3.293	3.325	604.0	829.0
200.	2.698	2.887	2.830	512.0	815.1
201.	3.987	4.261	4.318	140.4	790.1
202.	4.904	5.109	5.248	690.6	654.1
203.	5.590	5.810	5.965	324.4	724.2
204.	4.378	4.527	4.544	580.9	696.0
205.	3.854	3.977	3.940	679.0	647.1
206.	2.669	2.744	2.588	445.6	747.9
207.	5.366	5.562	5.724	577.6	730.3
208.	4.778	4.951	5.046	604.3	680.9
209.	2.201	2.246	2.032	34.0	776.0
210.	6.362	6.598	6.771	499.8	741.2
211.	2.762	2.852	2.678	612.1	680.3
212.	2.589	2.680	2.503	425.2	741.7
213.	3.202	3.367	3.315	529.9	733.1
214.	2.250	2.423	2.267	244.3	781.6
215.	2.988	3.127	3.039	359.5	750.5
216.	2.851	2.976	2.854	469.9	770.6
217.	3.714	3.857	3.726	339.2	753.6
218.	3.082	3.189	3.000	621.3	665.5

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar 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	BOWEN RATIO
219.	23.810	18.700	15.680	29.494	15.802	.225
220.	24.330	20.600	17.780	30.429	18.472	.188
221.	23.620	19.480	18.950	29.159	21.545	.328
222.	23.780	20.880	2) 18.020	29.441	18.755	.164
223.	23.480	16.900	13.070	28.914	12.505	.242
224.	23.390	16.510	13.630	28.757	13.692	.275
225.	23.000	16.080	14.380	28.087	15.251	.325
226.	22.680	15.600	13.530	27.548	14.127	.318
227.	22.750	17.940	14.950	27.665	15.008	.229
228.	23.510	19.910	16.230	28.966	16.000	.167
229.	23.380	20.090	16.480	28.740	16.342	.160
230.	22.410	17.100	12.860	27.100	12.027	.212
231.	21.480	17.620	13.690	25.606	13.057	.185
232.	21.860	19.120	16.610	26.207	17.228	.184
233.	20.740	11.440	7.627	24.468	7.946	.339

DATE	RAFT WIND @1M	RAFT WIND @2M	RAFT WIND @3M	SOLAR SHORT WAVE	SOLAR LONG WAVE
219.	2.500	2.629	2.447	553.8	716.4
220.	2.103	2.264	1.986	464.9	781.1
221.	1.618	1.909	1.621	52.2	932.2
222.	3.510	3.795	3.792	465.5	763.0
223.	3.908	4.036	4.046	536.9	657.7
224.	2.650	2.741	2.634	479.0	695.3
225.	2.518	2.619	2.502	261.7	716.3
226.	3.111	3.257	3.112	386.8	694.4
227.	3.936	4.109	4.088	519.6	709.2
228.	2.555	2.683	2.480	583.9	696.6
229.	3.931	4.180	4.031	448.0	719.2
230.	4.164	4.341	4.355	443.2	637.0
231.	2.788	2.933	2.713	568.9	696.0
232.	3.399	3.574	3.398	229.2	754.2
233.	6.863	7.186	7.366	477.0	566.7

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station--daily total short- and long-wave solar radiation.
(continued)

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EO	VAPOR PRESSURE ATMOSPHERE EA	BOWEN RATIO
234.	19.610	11.890	8.720	22.817	9.173	.341
235.	19.670	14.710	13.400	22.902	14.500	.356
236.	20.460	18.670	16.270	24.050	16.897	.151
237.	20.020	15.820	14.480	23.404	15.595	.324
238.	3) 22.040	4) 18.100	2) 14.290	26.497	13.757	.186
239.	21.270	17.030	14.560	25.278	14.932	.247
240.	17.760	12.160	8.120	20.323	8.152	.277
241.	16.010	9.730	7.410	18.187	8.774	.402
242.	18.180	12.740	9.610	20.867	9.893	.299
243.	20.920	16.540	13.920	24.741	14.160	.249
244.	19.520	14.600	12.770	22.689	13.536	.524
245.	21.270	17.030	15.580	25.278	16.731	.299
246.	21.830	17.810	15.460	26.159	15.998	.233

DATE	RAFT WIND 01M	RAFT WIND 02M	RAFT WIND-- 03M	SOLAR SHORT WAVE	SOLAR LONG WAVE
234.	3.812	4.019	3.810	486.6	608.2
235.	2.180	2.276	1.910	178.9	750.2
236.	2.837	3.041	2.719	378.9	741.5
237.	4.510	4.791	4.685	57.6	752.6
238.	6) 4.380	5) 4.380	4) 4.380	552.8	692.5
239.		4.380		443.4	716.9
240.		4.020		487.2	577.9
241.		3.420		359.3	560.0
242.		4.260		484.4	654.6
243.		3.000		346.4	709.1
244.		3.270		131.0	747.4
245.		2.780		306.0	778.3
246.		2.780		464.5	707.2

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar 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	BOWEN RATIO
247.	3) 19.730	4) 14.890	2) 11.950	22.987	12.030	.266
248.	18.960	13.820	12.580	21.911	13.744	.379
249.	20.080	15.380	12.670	23.491	12.858	.266
250.	18.740	13.520	10.280	21.612	10.369	.280
251.	18.740	13.520	11.390	21.612	12.058	.329
252.	19.300	14.300	11.950	22.381	12.420	.302
253.	18.240	16.740	14.040	20.946	14.232	.135
254.	20.520	19.570	16.950	24.139	17.567	.087
255.	21.070	19.930	17.230	24.970	17.859	.097
256.	21.000	19.530	17.390	24.863	18.431	.138
257.	20.770	18.160	16.680	24.513	17.997	.241
258.	20.260	16.180	15.990	23.754	18.038	.430
259.	19.500	13.410	13.140	22.661	14.930	.473
260.	18.850	10.990	8.730	21.761	9.779	.395
261.	17.740	10.400	8.940	20.297	10.467	.450
262.	17.810	10.820	7.940	20.387	8.784	.363
263.	17.370	10.070	8.930	19.829	10.670	.480

DATE	RAFT WIND @1M	RAFT WIND @2M	RAFT WIND @3M	SOLAR SHORT WAVE	SOLAR LONG WAVE
247.	6) .	5) 3.330	6) .	471.3	652.8
248.	.	4.370	.	526.6	604.8
249.	.	4.000	.	505.4	676.2
250.	.	3.760	.	533.9	589.7
251.	.	3.150	.	422.9	623.9
252.	.	3.420	.	491.7	638.3
253.	.	2.870	.	461.1	678.7
254.	2.618	2.803	2.794	394.3	718.1
255.	2.097	2.290	2.252	419.8	713.9
256.	2.778	2.947	2.970	418.3	714.7
257.	2.324	2.485	2.344	352.3	727.1
258.	1.504	1.764	1.656	35.2	779.8
259.	2.142	2.340	2.242	68.7	748.8
260.	5.332	5.575	5.664	283.4	618.1
261.	2.657	2.820	2.779	185.9	635.2
262.	5.278	5.469	5.562	440.4	557.3
263.	2.496	2.646	2.598	264.4	653.7

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EO	VAPOR PRESSURE ATMOSPHERE EA	BOWEN RATIO
264.	17.520	12.300	11.610	20.017	13.207	.462
265.	17.170	12.270	11.590	19.579	13.195	.463
266.	17.030	11.960	11.620	19.406	13.447	.513
267.	17.180	14.270	11.930	19.592	12.408	.244
268.	17.190	13.910	12.030	19.604	12.804	.291
269.	17.150	13.520	11.620	19.555	12.416	.306
270.	17.050	13.130	12.970	19.431	14.836	.514
271.	17.230	15.540	14.330	19.654	15.522	.246
272.	17.050	14.490	13.330	19.431	14.529	.315
273.	17.150	14.010	12.810	19.555	13.992	.340
274.	17.460	14.120	11.990	19.942	12.602	.274

DATE	RAFT WIND @1M	RAFT WIND @2M	RAFT WIND @3M	SOLAR SHORT WAVE	SOLAR LONG WAVE
264.	1.891	2.018	1.913	158.3	716.6
265.	1.991	2.199	2.140	104.0	722.6
266.	2.250	2.466	2.418	63.5	730.5
267.	3.459	3.644	3.664	389.8	639.4
268.	2.169	2.302	2.193	352.0	646.7
269.	2.392	2.565	2.440	345.3	663.1
270.	1.608	1.808	1.566	50.7	753.9
271.	2.727	3.000	2.895	145.2	759.9
272.	2.401	2.640	2.555	224.1	732.2
273.	2.021	2.270	2.134	277.4	689.5
274.	4.425	4.672	4.682	288.8	694.0

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar radiation. (continued)

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EO	VAPOR PRESSURE ATMOSPHERE EA	BOWEN RATIO
275.	16.570	9.860	7.086	18.872	8.250	.382
276.	15.980	10.090	8.450	18.152	9.976	.434
277.	16.200	13.190	10.350	18.409	10.691	.235
278.	15.860	10.540	8.380	18.013	9.582	.380
279.	15.920	12.540	9.860	18.083	10.372	.265
280.	15.790	11.400	9.620	17.933	10.791	.370

DATE	RAFT WIND 01M	RAFT WIND 02M	RAFT WIND 03M	SOLAR SHORT WAVE	SOLAR LONG WAVE
275.	7.678	8.100	8.330	346.6	563.2
276.	2.137	2.320	2.202	353.3	610.4
277.	4.734	4.975	5.026	347.3	610.6
278.	2.074	2.217	2.105	365.4	569.7
279.	2.978	3.078	2.985	372.5	615.3
280.	3.445	3.620	3.637	166.2	675.7

DATE	RAFT SURFACE WATER TEMPERATURE	RAFT DRY BULB AIR TEMPERATURE	RAFT WET BULB AIR TEMPERATURE	VAPOR PRESSURE WATER EO	VAPOR PRESSURE ATMOSPHERE EA	BOWEN RATIO
281.	15.560	10.230	10.030	17.671	12.167	.584
282.	15.250	9.730	8.390	17.322	10.129	.462
283.	14.470	6.062	3.871	16.473	6.622	.514
284.	13.910	5.243	3.021	15.886	6.133	.536
285.	13.610	6.983	5.075	15.579	7.515	.495
286.	13.710	8.680	8.080	15.681	10.397	.573
287.	14.070	9.980	8.940	16.052	10.744	.464

DATE	RAFT WIND 01M	RAFT WIND 02M	RAFT WIND 03M	SOLAR SHORT WAVE	SOLAR LONG WAVE
281.	1.459	1.562	1.418	56.2	720.9
282.	3.161	3.331	3.334	74.7	696.0
283.	2.728	2.856	2.620	370.0	487.8
284.	2.669	2.792	2.781	377.0	497.7
285.	2.079	2.189	2.103	232.9	615.7
286.	1.573	1.663	1.485	104.6	673.0
287.	2.526	2.656	2.549	197.1	659.3

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar 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	BOWEN RATIO
288.	13.700	7.624	6.912	15.670	9.486	.592
289.	13.340	4.719	3.508	15.307	7.060	.630
290.	13.050	5.400	2.804	15.020	5.773	.499
291.	12.170	5.486	2.926	14.177	5.362	.484
292.	12.100	6.932	4.602	14.112	6.954	.435
293.	12.200	10.070	7.833	14.205	9.130	.253
294.	12.590	10.160	7.191	14.574	8.195	.250
295.	11.490	7) 3.829	8) .857	13.554	4.560	.513
296.	10.600	3.310	.796	12.776	4.830	.553
297.	10.260	4.088	1.006	12.489	4.558	.469
298.	9.630	2.801	.860	11.973	5.234	.611
299.	10.010	6.663	4.397	12.282	6.875	.373
300.	9.790	4.598	2.915	12.102	6.429	.552
301.	10.080	7.172	5.004	12.340	7.301	.348
302.	10.410	9.487	7.062	12.615	8.463	.154
303.	10.650	10.510	8.554	12.819	9.846	.028
304.	10.830	10.770	9.264	12.973	10.689	.016

DATE	RAFT WIND @1M	RAFT WIND @2M	RAFT WIND @3M	SOLAR SHORT WAVE	SOLAR LONG WAVE
288.	2.562	2.702	2.690	136.1	627.2
289.	4.362	4.543	4.610	178.7	611.6
290.	8.370	8.740	9.030	126.9	604.3
291.	4.045	4.279	4.542	252.2	508.8
292.	1.847	2.038	1.840	313.2	549.5
293.	3.043	3.284	3.280	284.0	596.9
294.	5.478	5.819	5.914	261.3	645.3
295.	5.817	6.209	6.374	229.7	520.5
296.	5.224	5.578	5.696	211.8	524.2
297.	3.534	3.866	3.896	298.1	459.1
298.	1.939	2.261	2.171	260.3	498.7
299.	2.592	2.875	2.790	278.2	536.2
300.	1.819	2.143	2.032	292.5	507.9
301.	5.266	3.598	3.596	258.3	567.4
302.	1.917	2.139	2.024	239.3	614.0
303.	1.858	2.092	2.037	224.7	609.2
304.	.987	1.212	1.058	116.8	666.6

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar 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	BOWEN RATIO
305.	11.330	12.320	11.510	13.412	13.037	-1.582
306.	11.240	11.290	11.300	13.332	13.391	.504
307.	11.570	12.060	11.920	13.626	13.853	1.305
308.	12.740	16.170	16.050	14.718	18.154	.602
309.	12.550	11.800	10.350	14.536	11.608	.154
310.	9.750	3.314	.168	12.070	4.132	.489
311.	9.300	7.172	3.677	11.710	5.659	.212
312.	9.410	5.375	1.794	11.797	4.612	.338
313.	9.340	1.771	-1.380	11.742	3.471	.581
314.	8.330	1.771	-.449	10.966	4.465	.608

DATE	RAFT WIND @1M	RAFT WIND @2M	RAFT WIND @3M	SOLAR SHORT WAVE	SOLAR LONG WAVE
305.	2.084	2.357	2.276	99.1	720.2
306.	1.023	1.256	1.074	29.6	728.5
307.	1.075	1.188	1.071	52.0	746.2
308.	1.938	2.136	2.119	21.2	807.9
309.	4.477	4.803	4.960	48.2	685.6
310.	3.634	3.914	3.983	103.8	520.7
311.	4.023	4.372	4.407	139.1	541.0
312.	3.951	4.302	4.321	191.7	572.9
313.	8.900	9.330	9.620	186.7	514.0
314.	5.948	6.417	6.622	234.7	424.6

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station:--daily total short- and long-wave solar 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	BOWEN RATIO
315.	7.498	7) 8.718	8) 8.143	10.362	10.449	8.404
316.	8.510	6.403	3.708	11.101	6.200	.259
317.	8.570	1.514	-1.910	11.146	3.083	.527
318.	7.291	3.569	1.393	10.216	5.334	.459
319.	7.257	.228	-2.760	10.192	2.841	.576
320.	6.600	.228	-1.670	9.743	4.170	.689
321.	5.955	.228	-1.670	9.318	4.170	.670
322.	5.747	.228	-1.620	9.185	4.223	.670

DATE	RAFT WIND 21M	RAFT WIND 82M	RAFT WIND 83M	SOLAR SHORT WAVE	SOLAR LONG WAVE
315.	1.871	2.213	2.052	152.5	559.2
316.	2.027	2.300	2.107	35.1	708.7
317.	7.896	8.290	8.550	36.9	632.2
318.	4.167	4.417	4.501	200.6	487.3
319.	5.117	5.412	5.496	53.3	581.8
320.	5.676	6.032	6.191	208.5	420.9
321.	1.991	2.262	2.179	132.8	485.9
322.	1.658	1.994	1.855	209.7	465.7

Table 2. Summary of 1982 data: Raft station--(1) daily average lake-surface water temperature, (2) daily average dry- and wet-bulb air temperature, (3) daily average vapor pressure at water surface and 2 meters above water surface, (4) Bowen ratio, and (5) daily average wind speed at 1, 2, and 3 meters; Land station--daily total short- and long-wave solar 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	BOWEN RATIO
323.	5.539	7 2.800	8 1.074	9.053	5.475	.461
324.	5.643	5.375	4.613	9.119	7.988	.143
325.	5.891	7.690	7.330	9.277	10.007	1.486
326.	6.679	9.228	8.904	9.796	11.188	1.104
327.	7.446	5.625	3.811	10.325	6.835	.314
328.	6.842	-.542	-3.560	9.906	2.738	.621
329.	5.481	.228	-1.560	9.017	4.286	.669
330.	5.140	-5.170	-8.520	8.806	1.053	.801
331.	4.845	-4.400	-7.230	8.626	1.724	.807
332.	4.042	1.257	.302	8.154	5.621	.662
333.	4.068	4.598	3.348	8.169	6.947	-.261
334.	4.011	3.310	2.391	8.137	6.654	.285
335.	3.909	4.598	3.492	8.078	7.120	-.433
336.	3.960	5.885	5.241	8.107	8.445	3.432

DATE	RAFT WIND @1M	RAFT WIND @2M	RAFT WIND @3M	SOLAR SHORT WAVE	SOLAR LONG WAVE
323.	1.957	2.268	2.160	215.9	496.4
324.	1.350	1.598	1.432	46.3	622.6
325.	.827	.894	.831	16.9	666.0
326.	.983	1.095	.960	37.5	697.9
327.	.769	.941	.824	39.1	709.8
328.	6.094	6.473	6.645	39.5	621.3
329.	3.823	4.103	4.184	103.1	501.7
330.	2.072	2.472	2.426	38.5	569.3
331.	10.290	10.800	11.300	30.7	518.3
332.	2.226	2.497	2.492	163.4	467.4
333.	1.676	1.878	1.779	22.5	618.4
334.	3.675	3.900	3.934	35.3	632.7
335.	.916	1.071	.957	35.6	599.7
336.	2.434	2.616	2.563	158.5	568.5

- ¹Long-wave solar radiation for Julian days 155 through 163 was obtained using Brunt's equation.
- ²Wet-bulb air temperature for Julian days 222 and 238 through 253 was obtained by correlation with backup instruments (linear regression (4)).
- ³Surface-water temperature for Julian days 238 through 253 was obtained by correlation with backup instruments (linear regression (3)).
- ⁴Dry-bulb air temperature for Julian days 238 through 253 was obtained by correlation with backup instruments (linear regression (2)).
- ⁵Wind speed at 2 meters for Julian days 238 through 253 was obtained by correlation with backup instruments (linear regression (1)).
- ⁶Wind speed at 1 meter and 3 meters for Julian days 238 through 253 were unobtainable.
- ⁷Dry-bulb air temperature for Julian days 295 through 336 was obtained by correlation with backup instruments (linear regression (5)).
- ⁸Wet-bulb air temperature for Julian days 295 through 336 was obtained by correlation with backup instruments (linear regression (6)).

Table 3. Raft-station data for 1982: (1) Daily average lake-surface water temperature; (2) daily average dry-bulb air temperature; (3) daily maximum and minimum dry-bulb temperature and the time they occurred; and (4) daily average wet-bulb air temperature.
[Temperature is in degrees celsius.]

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
155.	18.41	12.77					8.90
156.	17.93	12.42					11.26
157.	17.48	14.01					11.26
158.	17.12	13.39					10.46
159.	18.02	16.10					10.92
160.	19.25	17.05					11.15
161.	19.77	18.20					12.52

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
162.	19.67	14.59					10.20
163.	19.77	14.01					10.22
164.	18.78	8.67					7.09
165.	18.21	11.46					9.73
166.	19.23	15.81					12.45
167.	19.45	17.70					15.36
168.	19.77	16.63					14.69
169.	20.07	17.05					13.85
170.	20.26	17.67					14.56
171.	20.20	15.36					11.54
172.	19.48	12.23					10.96
173.	19.90	15.81					12.47
174.	19.53	13.78					12.09
175.	19.44	15.01					11.38

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
176.	19.18	13.90					12.49
177.	19.21	17.23					14.23
178.	19.77	15.80					11.71
179.	21.22	19.60					15.89
180.	21.24	17.98					17.21
181.	20.53	17.56					13.00
182.	19.96	14.08					8.70
183.	20.03	16.23					11.65
184.	20.12	16.01					10.70
185.	19.99	13.47					8.96
186.	21.23	19.22	24.39	1655.	11.37	2358.	12.86
187.	21.66	18.75	27.47	1531.	9.08	421.	14.95
188.	22.81	21.87	29.49	1455.	12.87	503.	18.14
189.	24.04	23.90	29.49	1511.	17.09	2400.	19.52
190.	23.91	20.41	26.59	1614.	14.62	424.	15.49
191.	23.96	20.18	27.12	1538.	13.13	459.	15.31
192.	23.90	20.52	26.41	1516.	13.22	433.	16.27
193.	23.37	18.58	20.43	1837.	16.38	749.	16.98
194.	23.50	21.16	26.94	1639.	14.19	512.	16.20
195.	24.07	19.96	27.03	1633.	12.60	435.	15.38
196.	24.82	21.95	29.49	1433.	13.83	438.	17.69

Table 3. Raft-station data for 1982: (1) Daily average lake-surface water temperature; (2) daily average dry-bulb air temperature; (3) daily maximum and minimum dry-bulb temperature and the time they occurred; and (4) daily average wet-bulb air temperature. (continued)

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
197.	25.29	23.02	29.40	1257.	16.91	446.	19.37
198.	25.86	24.00	31.43	1445.	17.09	458.	20.22
199.	26.54	25.89	32.48	1528.	20.52	520.	22.26
200.	27.09	24.37	30.02	1401.	20.34	445.	21.32
201.	26.09	20.30	23.16	751.	17.26	2339.	17.86
202.	24.83	19.76	25.44	1542.	11.19	420.	13.77
203.	24.01	19.80	24.92	1614.	14.71	2347.	14.71
204.	23.75	19.12	24.92	1605.	12.60	2352.	14.79
205.	23.69	18.26	26.06	1642.	9.52	431.	13.36
206.	23.89	20.25	26.41	1614.	12.69	508.	16.02
207.	23.97	23.61	27.12	1512.	18.50	2231.	17.05
208.	23.82	19.88	24.39	1425.	14.62	421.	14.98
209.	23.26	16.05	17.18	1331.	15.15	612.	15.19
210.	22.83	18.65	22.54	1638.	14.80	228.	14.85
211.	23.42	18.92	25.44	1656.	11.55	452.	15.09
212.	23.40	18.99	25.36	1514.	12.51	458.	16.61
213.	23.71	19.71	25.80	1549.	15.24	419.	17.06
214.	23.62	19.25	24.39	936.	15.33	153.	17.27
215.	23.36	17.62	22.72	1545.	14.98	2359.	15.11
216.	23.53	19.22	23.77	1413.	14.27	426.	15.99
217.	23.41	18.61	22.37	1102.	13.39	2356.	16.46
218.	23.46	17.37	23.77	1247.	10.40	512.	13.34

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
219.	23.81	18.70	26.15	1454.	11.72	459.	15.68
220.	24.33	20.60	27.82	1457.	14.54	539.	17.78
221.	23.62	19.48	21.05	1624.	18.14	553.	18.95
222.	23.78	20.88	25.71	1425.	17.53	1957.	18.02
223.	23.48	16.90	21.40	1453.	12.07	2400.	13.07
224.	23.39	16.51	22.10	1451.	9.52	508.	13.63
225.	23.00	16.08	20.69	1138.	12.87	2400.	14.38
226.	22.68	15.60	20.96	1213.	10.84	449.	13.53
227.	22.75	17.94	25.09	1619.	11.19	509.	14.95
228.	23.51	19.91	27.03	1616.	12.43	515.	16.23
229.	23.38	20.09	26.59	1323.	13.92	537.	16.48
230.	22.41	17.10	23.42	1643.	10.93	2355.	12.86
231.	21.48	17.62	24.92	1352.	8.73	522.	13.69
232.	21.86	19.12	24.48	1535.	15.50	2400.	16.61
233.	20.74	11.44	15.68	10.	6.18	2356.	7.63

Table 3. Raft-station data for 1982: (1) Daily average lake-surface water temperature; (2) daily average dry-bulb air temperature; (3) daily maximum and minimum dry-bulb temperature and the time they occurred; and (4) daily average wet-bulb air temperature. (continued)

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
234.	19.61	11.89	19.29	1659.	4.43	504.	8.72
235.	19.67	14.71	19.55	1510.	9.88	250.	13.40
236.	20.46	18.67	23.77	1617.	14.36	2338.	16.27
237.	20.02	15.82	17.97	1724.	13.48	554.	14.48
238.	22.04	18.10					14.29
239.	21.27	17.03					14.56
240.	17.76	12.16					8.12
241.	16.01	9.73					7.41
242.	18.18	12.74					9.61
243.	20.92	16.54					13.92
244.	19.52	14.60					12.77
245.	21.27	17.03					15.58
246.	21.83	17.81					15.46

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
247.	19.73	14.89					11.95
248.	18.96	13.82					12.58
249.	20.08	15.38					12.67
250.	18.74	13.52					10.28
251.	18.74	13.52					11.39
252.	19.30	14.30					11.95
253.	18.24	16.74					14.04
254.	20.52	19.57	27.38	1557.	12.95	536.	16.95
255.	21.07	19.93	28.00	1504.	13.83	600.	17.23
256.	21.00	19.53	26.15	1402.	13.75	538.	17.39
257.	20.77	18.16	25.27	1525.	13.57	431.	16.68
258.	20.26	16.18	18.14	1602.	13.92	2359.	15.99
259.	19.50	13.41	14.27	1653.	11.90	2334.	13.14
260.	18.85	10.99	14.54	52.	4.87	2341.	8.73
261.	17.74	10.40	16.91	1638.	3.72	535.	8.94
262.	17.81	10.82	15.68	1621.	5.04	2354.	7.94
263.	17.37	10.07	16.21	1244.	3.46	554.	8.93

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
264.	17.52	12.30	15.06	1432.	10.14	613.	11.61
265.	17.17	12.27	14.71	1548.	10.05	604.	11.59
266.	17.03	11.96	13.75	1056.	9.35	2146.	11.62
267.	17.18	14.27	20.25	1439.	9.35	2400.	11.93
268.	17.19	13.91	20.78	1517.	8.03	558.	12.03
269.	17.15	13.52	19.90	1314.	7.15	549.	11.62
270.	17.05	13.13	14.98	1400.	11.11	243.	12.97
271.	17.23	15.54	18.41	1301.	13.39	608.	14.33
272.	17.05	14.49	17.97	1502.	12.95	2254.	13.33
273.	17.15	14.01	18.85	1550.	9.96	2358.	12.81
274.	17.46	14.12	23.16	1311.	7.86	654.	11.99

Table 3. Raft-station data for 1982; (1) Daily average lake-surface water temperature; (2) daily average dry-bulb air temperature; (3) daily maximum and minimum dry-bulb temperature and the time they occurred; and (4) daily average wet-bulb air temperature. (continued)

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
275.	16.59	9.86	12.95	1403.	4.16	2400.	7.09
276.	15.98	10.09	18.94	1522.	1.61	542.	8.45
277.	16.20	13.19	17.70	1506.	6.10	2400.	10.35
278.	15.86	10.54	20.87	1438.	2.84	610.	8.38
279.	15.92	12.54	21.75	1516.	4.25	602.	9.86
280.	15.79	11.40	14.80	1032.	7.94	558.	9.62

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
281.	15.56	10.23	12.34	1429.	7.94	433.	10.03
282.	15.25	9.73	11.55	2.	6.36	2320.	8.39
283.	14.47	6.06	14.89	1505.	.20	622.	3.87
284.	13.91	5.24	14.80	1554.	-1.20	554.	3.02
285.	13.61	6.98	13.92	1601.	-.23	9.	5.07
286.	13.71	8.68	13.39	1407.	4.07	243.	8.08
287.	14.07	9.98	14.71	1558.	6.10	2342.	8.94

RAFT TEMPERATURE DATA							
DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
288.	13.70	7.62	13.31	1026.	2.32	2400.	6.91
289.	13.34	4.72	9.08	1313.	.03	630.	3.51
290.	13.05	5.40	7.07	1945.	3.63	730.	2.80
291.	12.17	5.49	10.40	1305.	.03	2357.	2.93
292.	12.10	6.93	18.41	1457.	-.94	602.	4.60
293.	12.20	10.07	18.67	1503.	-.15	628.	7.83
294.	12.59	10.16	13.66	1527.	4.25	2400.	7.19
295.	11.49	3.83					.86
296.	10.60	3.31					.80
297.	10.26	4.09					1.01
298.	9.63	2.80					.86
299.	10.01	6.66					4.40
300.	9.79	4.60					2.91
301.	10.08	7.17					5.00
302.	10.41	9.49					7.06
303.	10.65	10.51					8.55
304.	10.83	10.77					9.26

Table 3. Raft-station data for 1982; (1) Daily average lake-surface water temperature; (2) daily average dry-bulb air temperature; (3) daily maximum and minimum dry-bulb temperature and the time they occurred; and (4) daily average wet-bulb air temperature. (continued)

RAFT TEMPERATURE DATA

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
305.	11.33	12.32					11.51
306.	11.24	11.29					11.30
307.	11.57	12.06					11.92
308.	12.74	16.17					16.05
309.	12.55	11.80					10.35
310.	9.75	3.31					.17
311.	9.30	7.17					3.68
312.	9.41	5.37					1.79
313.	9.34	1.77					-1.38
314.	8.33	1.77					-.45

RAFT TEMPERATURE DATA

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
315.	7.50	8.72					8.14
316.	8.51	6.40					3.71
317.	8.57	1.51					-1.91
318.	7.29	3.57					1.39
319.	7.26	.23					-2.96
320.	6.60	.23					-1.67
321.	5.95	.23					-1.67
322.	5.75	.23					-1.62

RAFT TEMPERATURE DATA

DATE	SURFACE WATER	DRY BULB AIR	MAXIMUM AIR	TIME OF MAXIMUM	MINIMUM AIR	TIME OF MINIMUM	WET BULB AIR
323.	5.54	2.80					1.07
324.	5.64	5.37					4.61
325.	5.89	7.69					7.33
326.	6.68	9.23					8.90
327.	7.45	5.62					3.81
328.	6.84	-.54					-3.56
329.	5.48	.23					-1.56
330.	5.14	-5.17					-8.52
331.	4.84	-4.40					-7.23
332.	4.04	1.26					.30
333.	4.07	4.60					3.35
334.	4.01	3.31					2.39
335.	3.91	4.60					3.49
336.	3.96	5.89					5.24

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred.
[Wind speed is in miles per hour.]

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	155.	3.054				
	156.	2.060				
	157.	3.767				
	158.	2.886				
	159.	2.482				
	160.	2.911				
	161.	3.173				
2 METER	155.	3.238				
	156.	2.188				
	157.	4.156				
	158.	3.297				
	159.	2.707				
	160.	3.048				
	161.	3.402				
3 METER	155.	3.139				
	156.	2.181				
	157.	3.902				
	158.	2.991				
	159.	2.612				
	160.	3.065				
	161.	3.370				

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	162.	3.402				
	163.	3.890				
	164.	3.490				
	165.	2.335				
	166.	2.059				
	167.	2.512				
	168.	2.026				
	169.	2.800				
	170.	3.178				
	171.	4.673				
	172.	2.368				
	173.	2.541				
	174.	3.623				
	175.	4.162				
2 METER	162.	3.623				
	163.	4.156				
	164.	3.753				
	165.	2.341				
	166.	1.852				
	167.	2.549				
	168.	1.987				
	169.	2.960				
	170.	3.431				
	171.	5.003				
	172.	2.310				
	173.	2.504				
	174.	3.783				
	175.	4.379				
3 METER	162.	3.601				
	163.	4.064				
	164.	3.623				
	165.	2.387				
	166.	2.140				
	167.	2.700				
	168.	2.192				
	169.	3.031				
	170.	3.423				
	171.	4.937				
	172.	2.495				
	173.	2.688				
	174.	3.833				
	175.	4.369				

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	176.	1.647				
	177.	3.413				
	178.	2.779				
	179.	2.308				
	180.	2.197				
	181.	5.345				
	182.	6.903				
	183.	4.422				
	184.	5.623				
	185.	4.435				
	186.	3.536	11.15	1357.	.600	2145.
	187.	2.369	10.75	1124.	.600	2400.
	188.	2.575	14.41	1305.	.571	2306.
	189.	3.306	16.73	1104.	.571	2244.
	190.	3.395	17.97	1354.	.571	57.
	191.	2.791	10.64	1333.	.571	828.
	192.	3.661	16.02	1639.	.600	2353.
	193.	1.919	6.20	930.	.571	1334.
	194.	4.425	18.99	1453.	.600	2308.
	195.	2.839	11.63	1301.	.600	2256.
	196.	2.326	10.81	1330.	.571	1818.
2 METER	176.	1.294				
	177.	3.520				
	178.	2.705				
	179.	2.175				
	180.	2.011				
	181.	5.726				
	182.	7.512				
	183.	4.842				
	184.	6.115				
	185.	4.675				
	186.	3.699	11.29	1315.	.600	2028.
	187.	2.454	11.01	1125.	.288	448.
	188.	2.726	15.03	1305.	.571	817.
	189.	3.498	17.63	1104.	.571	2244.
	190.	3.683	18.37	1354.	.571	2353.
	191.	2.963	11.49	1018.	.571	2106.
	192.	3.887	16.39	1603.	.571	529.
	193.	1.963	5.81	930.	.571	1255.
	194.	4.683	20.89	1453.	.600	2308.
	195.	3.013	12.45	1301.	.571	54.
	196.	2.448	10.87	1324.	.571	2030.
3 METER	176.	1.716				
	177.	3.606				
	178.	2.921				
	179.	2.451				
	180.	2.372				
	181.	5.585				
	182.	7.232				
	183.	4.675				
	184.	5.895				
	185.	4.631				
	186.	3.669	11.92	1448.	.571	1157.
	187.	2.423	10.81	1125.	.571	2400.
	188.	2.703	14.07	1305.	.571	816.
	189.	3.505	15.79	903.	.571	2244.
	190.	3.703	19.90	1255.	.571	2353.
	191.	3.018	10.92	1018.	.571	2324.
	192.	3.984	17.63	1603.	.571	602.
	193.	1.718	5.75	930.	.571	2301.
	194.	4.745	21.93	1406.	.571	30.
	195.	3.012	12.48	1301.	.571	842.
	196.	2.390	11.24	1248.	.571	2030.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	197.	2.365	11.12	1528.	.571	316.
	198.	2.171	14.86	1249.	.571	2104.
	199.	3.118	16.33	1105.	.571	914.
	200.	2.698	20.52	1543.	.571	2321.
	201.	3.987	21.00	1740.	.571	900.
	202.	4.904	17.29	1138.	.571	303.
	203.	5.590	27.54	526.	.571	2210.
	204.	4.378	22.67	1234.	.571	848.
	205.	3.854	21.23	944.	.571	815.
	206.	2.669	11.89	911.	.600	2359.
	207.	5.366	22.16	1127.	.571	2215.
	208.	4.778	15.59	1049.	.600	2306.
	209.	2.201	8.07	1447.	.600	2353.
	210.	6.362	23.01	815.	.600	2310.
	211.	2.762	13.39	1319.	.062	618.
	212.	2.589	16.22	1209.	.600	2400.
	213.	3.202	19.90	1128.	.600	2336.
	214.	2.250	9.85	1306.	.571	846.
	215.	2.988	10.19	1513.	.600	2344.
	216.	2.851	11.52	1143.	.571	557.
	217.	3.714	23.83	1104.	.571	719.
	218.	3.082	14.32	1326.	.571	2203.
2 METER	197.	2.545	10.67	1527.	.571	1356.
	198.	2.348	17.43	1329.	.571	1853.
	199.	3.293	18.51	1104.	.571	2239.
	200.	2.887	19.27	1543.	.571	707.
	201.	4.261	20.94	1740.	.571	900.
	202.	5.109	18.42	2003.	.571	303.
	203.	5.810	27.37	526.	.571	100.
	204.	4.527	21.88	1234.	.571	503.
	205.	3.977	20.80	944.	.571	818.
	206.	2.744	12.96	911.	.571	2121.
	207.	5.562	28.70	1127.	.571	2215.
	208.	4.951	16.73	828.	.600	2308.
	209.	2.246	8.09	1447.	.600	2353.
	210.	6.598	22.70	815.	.600	2310.
	211.	2.852	12.45	1319.	.458	540.
	212.	2.680	16.02	1209.	.600	2400.
	213.	3.367	19.64	1128.	.571	1547.
	214.	2.423	12.37	1306.	.600	2130.
	215.	3.127	9.85	1513.	.571	2128.
	216.	2.976	10.84	1143.	.571	1952.
	217.	3.857	25.50	1104.	.571	458.
	218.	3.189	13.33	1528.	.571	807.
3 METER	197.	2.535	10.50	1532.	.571	1356.
	198.	2.312	16.47	1329.	.571	2103.
	199.	3.325	18.71	1104.	.571	2254.
	200.	2.830	20.21	1541.	.571	2338.
	201.	4.318	21.40	1740.	-.192	611.
	202.	5.248	18.57	2003.	.571	2100.
	203.	5.965	27.93	526.	.571	2220.
	204.	4.544	23.86	1234.	.571	2317.
	205.	3.940	21.48	929.	.571	2207.
	206.	2.588	13.16	911.	.571	2123.
	207.	5.724	28.75	1127.	.571	2215.
	208.	5.046	16.78	828.	.600	2350.
	209.	2.032	7.51	1441.	.600	2353.
	210.	6.771	22.47	958.	.600	2312.
	211.	2.678	12.85	1319.	-.192	613.
	212.	2.503	16.78	1209.	.571	2357.
	213.	3.313	19.02	1128.	.571	2248.
	214.	2.267	12.14	1306.	.571	1031.
	215.	3.039	9.51	1513.	.600	2348.
	216.	2.854	10.95	1207.	.571	1128.
	217.	3.726	23.01	1104.	.571	1444.
	218.	3.000	15.65	1326.	.571	2226.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	219.	2.500	10.87	1205.	.571	1418.
	220.	2.103	14.52	1636.	.600	2359.
	221.	1.618	6.88	23.	.571	933.
	222.	3.510	15.45	2217.	.571	1508.
	223.	3.908	14.75	1035.	.600	2339.
	224.	2.650	11.80	1121.	.600	2345.
	225.	2.518	10.16	1012.	.571	1039.
	226.	3.111	15.17	1232.	.571	2348.
	227.	3.936	21.25	1202.	.571	2222.
	228.	2.555	10.84	1313.	.571	2043.
	229.	3.931	22.67	2245.	.571	646.
	230.	4.164	22.41	333.	.600	2318.
	231.	2.788	14.32	1514.	.600	2358.
	232.	3.399	18.23	1845.	.600	2130.
	233.	6.863	26.32	33.	.600	2334.
2 METER	219.	2.629	10.73	1335.	.571	253.
	220.	2.264	13.87	1640.	.571	932.
	221.	1.909	7.68	23.	.571	1555.
	222.	3.795	15.82	2238.	.600	2053.
	223.	4.036	14.15	101.	.571	609.
	224.	2.741	11.75	1158.	.571	2127.
	225.	2.619	11.12	925.	.571	610.
	226.	3.257	15.03	1232.	.571	2348.
	227.	4.109	20.94	1202.	.571	2222.
	228.	2.683	9.93	1313.	.571	952.
	229.	4.180	23.91	2245.	.571	446.
	230.	4.341	20.38	333.	.600	2227.
	231.	2.933	13.39	1247.	.571	1922.
	232.	3.574	18.11	2340.	.600	2130.
	233.	7.186	26.52	954.	.600	2334.
3 METER	219.	2.447	11.75	1335.	.571	2350.
	220.	1.986	15.20	1637.	.571	928.
	221.	1.621	7.51	23.	.543	1523.
	222.	3.792	15.91	2238.	.571	1912.
	223.	4.046	14.72	101.	.571	2314.
	224.	2.634	11.92	1205.	.571	2127.
	225.	2.502	11.63	1012.	.571	1039.
	226.	3.112	15.99	1232.	.571	2348.
	227.	4.088	20.15	1122.	.571	2222.
	228.	2.480	9.40	1328.	.571	2301.
	229.	4.031	23.26	2245.	.571	852.
	230.	4.355	21.03	333.	.600	2318.
	231.	2.713	14.89	1351.	.571	2242.
	232.	3.398	19.24	2342.	.571	1031.
	233.	7.366	28.75	954.	.571	2354.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	234.	3.812	19.73	946.	.600	2400.
	235.	2.180	11.41	1435.	.571	1815.
	236.	2.837	20.15	1332.	.600	2345.
	237.	4.510	33.93	2257.	.458	816.
	238.					
	239.					
	240.					
	241.					
	242.					
	243.					
	244.					
	245.					
	246.					
2 METER	234.	4.019	19.61	1038.	.571	1653.
	235.	2.276	10.56	1435.	.571	1852.
	236.	3.041	21.31	1332.	.571	905.
	237.	4.791	36.34	2257.	.288	857.
	238.	4.380				
	239.	4.380				
	240.	4.020				
	241.	3.420				
	242.	4.260				
	243.	3.000				
	244.	3.270				
	245.	2.780				
	246.	2.780				
3 METER	234.	3.810	19.67	1038.	.571	2021.
	235.	1.910	10.90	1435.	.571	1852.
	236.	2.719	21.79	1332.	.571	906.
	237.	4.685	36.42	2257.	.034	1014.
	238.					
	239.					
	240.					
	241.					
	242.					
	243.					
	244.					
	245.					
	246.					

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	247.					
	248.					
	249.					
	250.					
	251.					
	252.					
	253.					
	254.	2.618	13.87	1233.	.571	1040.
	255.	2.097	7.84	1431.	.571	2327.
	256.	2.778	13.13	1416.	.571	2315.
	257.	2.324	11.24	1433.	.571	2307.
	258.	1.504	6.40	2142.	.600	2333.
	259.	2.142	6.60	1231.	.571	147.
	260.	5.332	25.05	959.	.600	2356.
	261.	2.657	15.59	2131.	.571	644.
	262.	5.278	20.86	846.	.600	2341.
	263.	2.496	9.85	1036.	.600	2326.
2 METER	247.	3.330				
	248.	4.370				
	249.	4.000				
	250.	3.760				
	251.	3.150				
	252.	3.420				
	253.	2.870				
	254.	2.803	13.87	1254.	.571	1042.
	255.	2.290	8.32	1811.	.571	2325.
	256.	2.947	13.75	1335.	.571	2316.
	257.	2.485	11.21	1433.	.571	2307.
	258.	1.764	6.97	2142.	.600	2333.
	259.	2.340	6.12	1231.	.571	147.
	260.	5.575	24.06	959.	.600	2354.
	261.	2.820	16.08	2131.	.571	1809.
	262.	5.469	19.73	846.	.600	2341.
	263.	2.646	10.42	1146.	.571	912.
3 METER	247.					
	248.					
	249.					
	250.					
	251.					
	252.					
	253.					
	254.	2.794	14.09	1331.	.571	1042.
	255.	2.252	8.75	1811.	.571	2325.
	256.	2.970	13.90	1335.	.571	2255.
	257.	2.544	11.92	1340.	.571	2307.
	258.	1.656	8.26	2142.	.600	2334.
	259.	2.242	5.89	1231.	.571	155.
	260.	5.664	22.24	959.	.600	2358.
	261.	2.779	20.69	2131.	.571	1809.
	262.	5.562	19.78	846.	.600	2341.
	263.	2.598	11.46	1146.	.600	2346.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	264.	1.891	6.54	1601.	.571	1834.
	265.	1.991	11.18	1126.	.571	1023.
	266.	2.250	15.76	1816.	.600	2311.
	267.	3.459	16.27	1108.	.600	2346.
	268.	2.169	10.64	1457.	.571	2113.
	269.	2.392	13.39	1339.	.571	1736.
	270.	1.608	8.01	1140.	.600	2358.
	271.	2.727	14.32	1737.	.571	917.
	272.	2.401	16.39	1117.	.571	2103.
	273.	2.021	8.86	1202.	.571	2008.
	274.	4.425	26.86	2301.	.571	14.
2 METER	264.	2.018	6.51	1433.	.571	1834.
	265.	2.199	10.90	1126.	.571	1027.
	266.	2.466	22.24	1816.	.600	2255.
	267.	3.644	19.30	1327.	.571	747.
	268.	2.302	10.47	1457.	.571	2113.
	269.	2.565	15.20	1339.	.600	2400.
	270.	1.808	7.90	1140.	.600	2308.
	271.	3.000	14.58	1323.	.571	919.
	272.	2.640	14.12	1117.	.571	2103.
	273.	2.270	8.89	1202.	.571	2007.
	274.	4.672	28.02	2331.	.571	1226.
3 METER	264.	1.913	6.37	1433.	.571	1834.
	265.	2.140	11.92	1120.	.571	1025.
	266.	2.418	26.86	1816.	.600	2254.
	267.	3.664	18.99	1327.	.600	2346.
	268.	2.193	9.23	1413.	.571	2113.
	269.	2.440	15.42	1339.	.571	1735.
	270.	1.566	8.09	1140.	.600	2400.
	271.	2.895	14.91	1327.	.571	917.
	272.	2.555	13.67	1117.	.571	2101.
	273.	2.134	8.97	1202.	.571	2007.
	274.	4.682	28.90	2331.	.571	1226.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	275.	7.678	27.37	431.	.571	2233.
	276.	2.137	10.16	1311.	.600	2400.
	277.	4.734	22.44	1316.	.571	1925.
	278.	2.074	8.52	1327.	.571	1438.
	279.	2.978	17.49	1350.	.571	1827.
	280.	3.445	15.20	1032.	.571	111.
2 METER	275.	8.100	29.66	431.	.571	2233.
	276.	2.320	9.79	1008.	.571	825.
	277.	4.975	22.22	1316.	.571	1922.
	278.	2.217	8.83	1327.	.600	2352.
	279.	3.078	16.70	1350.	.571	854.
	280.	3.620	15.23	1032.	.571	139.
3 METER	275.	8.330	29.89	938.	.600	2324.
	276.	2.202	9.79	1008.	.571	824.
	277.	5.026	23.55	1130.	.571	1922.
	278.	2.105	8.69	1300.	.571	20.
	279.	2.985	16.98	1350.	.571	1827.
	280.	3.637	16.02	1032.	.571	140.
RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	281.	1.459	5.01	311.	.571	2353.
	282.	3.161	13.81	904.	.571	220.
	283.	2.728	8.46	36.	.600	2356.
	284.	2.669	11.55	1344.	.600	2356.
	285.	2.079	9.71	1105.	.600	2354.
	286.	1.573	5.04	850.	.571	1825.
	287.	2.526	16.19	1136.	.600	2359.
2 METER	281.	1.562	4.82	310.	.571	2353.
	282.	3.331	13.13	933.	.571	2257.
	283.	2.856	8.66	1207.	.600	2354.
	284.	2.792	10.30	1344.	.571	831.
	285.	2.189	9.51	1118.	.571	946.
	286.	1.663	5.01	850.	.571	1818.
	287.	2.656	13.98	1143.	.600	2400.
3 METER	281.	1.418	5.27	309.	.571	1953.
	282.	3.334	13.64	900.	.571	2257.
	283.	2.820	8.49	1411.	.571	340.
	284.	2.781	10.47	1330.	.571	829.
	285.	2.103	9.88	1118.	.571	946.
	286.	1.485	5.47	850.	.571	1828.
	287.	2.549	13.70	1124.	.571	1029.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA

MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	288.	2.562	16.10	1038.	.571	2154.
	289.	4.362	25.53	2336.	.600	2057.
	290.	8.370	29.86	1325.	.600	2256.
	291.	4.045	21.93	230.	.600	2332.
	292.	1.847	8.63	1444.	.571	21.
	293.	3.043	14.15	1313.	.571	605.
	294.	5.478	28.02	2345.	.571	420.
	295.	5.817	27.88	754.	.600	2353.
	296.	5.224	21.74	1038.	.600	1319.
	297.	3.534	15.28	35.	.571	2204.
	298.	1.939	7.22	1102.	.571	1752.
	299.	2.592	18.45	1537.	.600	2352.
	300.	1.819	9.00	1348.	.571	2145.
	301.	3.266	17.94	1159.	.571	2330.
	302.	1.917	10.22	1223.	.571	1759.
	303.	1.858	12.99	1245.	.571	1006.
	304.	.987	3.88	43.	.571	2126.
2 METER	288.	2.702	15.82	1038.	.571	2154.
	289.	4.543	25.50	2317.	.600	2059.
	290.	8.740	27.76	241.	.600	2106.
	291.	4.279	21.00	23.	.600	2328.
	292.	2.038	9.68	1512.	.571	1904.
	293.	3.284	15.06	1426.	.571	606.
	294.	5.819	27.71	2345.	.571	422.
	295.	6.209	27.51	754.	.600	2338.
	296.	5.578	21.62	1034.	.600	928.
	297.	3.866	16.30	33.	.600	2332.
	298.	2.261	7.05	1103.	.571	139.
	299.	2.875	17.41	1537.	.571	901.
	300.	2.143	8.92	1411.	.571	2145.
	301.	3.598	17.58	1240.	.571	2108.
	302.	2.139	9.23	1252.	.571	2047.
	303.	2.092	12.37	1245.	.571	750.
	304.	1.212	3.83	829.	.571	2129.
3 METER	288.	2.690	19.44	1336.	.571	2154.
	289.	4.610	27.65	2317.	.600	2059.
	290.	9.030	28.07	241.	.600	2256.
	291.	4.342	22.39	230.	.571	839.
	292.	1.840	9.68	1444.	.571	2134.
	293.	3.280	14.52	1415.	.571	602.
	294.	5.914	27.96	2345.	.571	435.
	295.	6.374	26.46	907.	.600	2353.
	296.	5.696	22.27	2110.	.600	941.
	297.	3.896	16.64	33.	.571	2204.
	298.	2.171	7.22	1206.	.571	2140.
	299.	2.790	17.38	1537.	.571	1820.
	300.	2.032	8.86	1325.	.571	2145.
	301.	3.596	17.77	1159.	.571	2108.
	302.	2.024	10.08	1401.	.571	2050.
	303.	2.037	12.54	1249.	.571	2118.
	304.	1.058	3.94	829.	.571	2131.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	305.	2.084	11.04	1232.	.600	2400.
	306.	1.023	5.38	1251.	.600	2400.
	307.	1.075	5.52	232.	.600	2400.
	308.	1.938	14.80	2156.	.571	1217.
	309.	4.477	17.52	1558.	.571	137.
	310.	3.634	17.91	1053.	.571	311.
	311.	4.023	18.03	915.	.571	2119.
	312.	3.951	19.87	2210.	.600	2357.
	313.	8.900	28.44	940.	.571	1603.
	314.	5.948	21.54	108.	.600	2358.
2 METER	305.	2.357	13.02	1232.	.600	2355.
	306.	1.256	5.61	1251.	.600	2400.
	307.	1.188	5.69	233.	.571	1245.
	308.	2.136	14.86	2156.	.571	1222.
	309.	4.803	18.20	1610.	.571	135.
	310.	3.914	18.65	1053.	.571	1642.
	311.	4.372	21.14	915.	.600	2359.
	312.	4.302	21.17	1239.	.600	2223.
	313.	9.330	29.26	940.	.684	705.
	314.	6.417	21.93	1137.	.571	2249.
3 METER	305.	2.276	14.21	1232.	.571	2151.
	306.	1.074	5.81	1242.	.600	2400.
	307.	1.071	5.49	233.	.571	1245.
	308.	2.119	15.85	2156.	.571	1251.
	309.	4.960	20.15	1610.	.571	135.
	310.	3.983	17.86	1053.	.571	311.
	311.	4.407	21.93	915.	.571	2122.
	312.	4.321	20.01	1209.	.600	2342.
	313.	9.620	29.60	911.	.600	2348.
	314.	6.622	21.59	1039.	.486	228.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and (2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	315.	1.871	10.95	1156.	.571	2224.
	316.	2.027	16.56	2018.	.571	1508.
	317.	7.896	39.76	1412.	.600	738.
	318.	4.167	18.57	14.	.600	2352.
	319.	5.117	31.16	2341.	.600	1712.
	320.	5.676	31.84	140.	.571	2043.
	321.	1.991	7.31	1500.	.571	2258.
	322.	1.658	9.17	1221.	.571	2301.
2 METER	315.	2.213	11.26	1156.	.571	1805.
	316.	2.300	16.08	2018.	.571	1457.
	317.	8.290	38.40	1412.	.600	738.
	318.	4.417	18.91	14.	.600	2308.
	319.	5.412	37.24	2341.	.571	806.
	320.	6.032	32.63	31.	.571	2043.
	321.	2.262	8.46	1500.	.571	1902.
	322.	1.994	9.25	1216.	.571	2301.
3 METER	315.	2.052	10.53	1253.	.571	2334.
	316.	2.107	16.16	2018.	.571	1507.
	317.	8.550	32.80	1412.	.458	530.
	318.	4.501	19.47	244.	.571	1041.
	319.	5.496	32.43	2341.	.571	1100.
	320.	6.191	34.53	31.	.571	2042.
	321.	2.179	8.63	1500.	.571	1910.
	322.	1.855	9.37	1216.	.571	2301.

Table 4. Raft-station data for 1982: (1) Daily average wind speed at three levels above lake surface; and
(2) daily maximum and minimum wind speed at each level and the time they occurred. (continued)

RAFT WIND DATA						
MEASURE HEIGHT	JULIAN DATE	DAILY AVERAGE	DAILY MAXIMUM	TIME OF MAXIMUM	DAILY MINIMUM	TIME OF MINIMUM
1 METER	323.	1.957	10.44	1318.	.571	732.
	324.	1.350	7.28	1356.	.571	1047.
	325.	.827	4.25	706.	.571	1515.
	326.	.983	3.97	430.	.571	2159.
	327.	.769	4.45	1302.	.571	1125.
	328.	6.094	31.73	2203.	.600	1017.
	329.	3.823	13.81	404.	.571	640.
	330.	2.072	14.66	2359.	.543	1931.
	331.	10.29	35.38	914.	.600	2340.
	332.	2.226	9.54	1343.	.571	1851.
	333.	1.676	8.04	2327.	.571	2305.
	334.	3.675	19.27	633.	.600	2400.
	335.	.916	3.09	2244.	.600	2400.
	336.	2.434	14.18	1146.	.571	1413.
2 METER	323.	2.268	11.24	1318.	.571	959.
	324.	1.598	7.51	1356.	.571	1047.
	325.	.894	4.82	706.	.571	1307.
	326.	1.095	3.74	425.	.571	2159.
	327.	.941	4.65	1243.	.571	1125.
	328.	6.473	28.58	2203.	.571	540.
	329.	4.103	15.06	1203.	.571	801.
	330.	2.472	13.50	2359.	.600	2210.
	331.	10.800	38.74	2021.	.883	1407.
	332.	2.497	9.42	1343.	.600	2358.
	333.	1.878	9.17	2327.	.571	45.
	334.	3.900	19.24	633.	.571	1459.
	335.	1.071	3.15	2228.	.600	2358.
	336.	2.616	15.99	1014.	.571	1544.
3 METER	323.	2.160	10.87	1318.	.571	959.
	324.	1.432	7.51	1246.	.571	1047.
	325.	.831	5.07	706.	.571	1505.
	326.	.960	3.85	425.	.571	2159.
	327.	.824	4.76	1302.	.571	1138.
	328.	6.645	30.45	1326.	.571	540.
	329.	4.184	16.16	1203.	.571	801.
	330.	2.426	13.58	2359.	.571	551.
	331.	11.300	38.97	2021.	.600	1407.
	332.	2.492	10.42	53.	.571	1853.
	333.	1.779	8.94	2339.	.571	2305.
	334.	3.934	21.25	633.	.571	1501.
	335.	.957	3.23	2152.	.571	2002.
	336.	2.563	17.24	1014.	.571	1722.

Table 5. Land-station data for 1982: (1) Daily total short-wave solar radiation; (2) daily maximum short-wave solar radiation and the time it occurred; (3) daily total long-wave solar radiation; and (4) daily maximum and minimum long-wave solar radiation and the time they occurred. [Solar radiation is in calories per square centimeter per day.]

SOLAR RADIATION DATA

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
155.	339.1			654.9				
156.	59.2			663.9				
157.	219.0			675.8				
158.	153.2			667.2				
159.	628.2			674.8				
160.	708.4			663.7				
161.	650.7			695.5				

SOLAR RADIATION DATA

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
162.	626.2			658.6				
163.	599.5			658.5				
164.	102.0			692.9				
165.	337.5			682.4				
166.	537.1			693.5				
167.	336.1			774.6				
168.	345.9			738.6				
169.	529.2			707.5				
170.	476.6			720.6				
171.	532.4			672.0				
172.	217.8			691.7				
173.	542.4			684.6				
174.	304.6			709.3				
175.	565.8			658.8				

SOLAR RADIATION DATA

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
176.	164.8			739.8				
177.	346.0			725.4				
178.	648.4			638.6				
179.	630.3			766.9				
180.	60.5			816.0				
181.	575.7			692.7				
182.	732.3			579.4				
183.	573.1			668.4				
184.	671.1			625.2				
185.	664.4			582.8				
186.	699.1			619.1				
187.	571.9			676.4				
188.	638.3	1.548	1231.	753.2	.601	1231.	.443	154.
189.	632.0	1.632	1216.	779.5	.610	1144.	.451	2400.
190.	674.9	1.425	1137.	688.0	.514	1222.	.445	422.
191.	660.9	1.397	1144.	684.2	.525	1217.	.434	408.
192.	558.0	1.524	1218.	731.8	.601	1527.	.443	12.
193.	92.8	.383	1109.	798.7	.586	1754.	.470	2149.
194.	674.4	1.383	1201.	715.5	.559	101.	.431	425.
195.	692.3	1.419	1246.	669.9	.523	1312.	.403	426.
196.	634.1	1.368	1119.	728.5	.590	1506.	.443	111.

Table 5. Land-station data for 1982: (1) Daily total short-wave solar radiation; (2) daily maximum short-wave solar radiation and the time it occurred; (3) daily total long-wave solar radiation; and (4) daily maximum and minimum long-wave solar radiation and the time they occurred. (continued)

SOLAR RADIATION DATA								
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
197.	502.4	1.411	1123.	757.8	.617	1516.	.481	210.
198.	541.7	1.416	1230.	787.7	.637	1227.	.490	142.
199.	604.0	1.492	1136.	829.0	.632	1150.	.521	515.
200.	512.0	1.760	1128.	815.1	.637	1128.	.516	410.
201.	140.4	.986	1535.	780.1	.581	1048.	.420	2352.
202.	690.6	1.428	1123.	654.1	.532	1555.	.382	514.
203.	324.4	1.424	1359.	724.2	.577	1556.	.443	2240.
204.	580.9	1.641	1051.	696.0	.583	1010.	.402	2400.
205.	679.0	1.415	1150.	647.1	.525	1542.	.384	337.
206.	445.6	1.930	1217.	747.9	.592	1406.	.431	636.
207.	577.6	1.704	1201.	730.3	.597	1222.	.440	2303.
208.	604.3	1.438	1150.	688.9	.534	1350.	.418	453.
209.	34.0	.099	1218.	776.0	.554	1332.	.490	18.
210.	499.8	1.878	1158.	741.2	.570	1158.	.431	2334.
211.	612.1	1.627	1235.	680.3	.577	1223.	.414	156.
212.	425.2	1.498	1107.	741.7	.592	1308.	.431	154.
213.	529.9	1.556	1125.	738.1	.586	1116.	.465	2400.
214.	244.3	.950	1255.	781.6	.586	1331.	.461	30.
215.	359.5	1.553	1243.	750.5	.559	1135.	.438	1812.
216.	469.9	1.755	1244.	770.5	.599	1224.	.427	544.
217.	339.2	1.780	1227.	753.6	.590	1227.	.418	2333.
218.	621.3	1.536	1107.	665.5	.523	955.	.420	646.

SOLAR RADIATION DATA								
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
219.	553.8	1.715	1129.	716.4	.583	1542.	.420	352.
220.	464.9	1.510	1301.	781.1	.601	1127.	.498	38.
221.	52.2	.238	1416.	832.2	.594	1531.	.552	257.
222.	465.5	1.618	1245.	763.0	.585	1045.	.460	1930.
223.	536.9	1.662	1233.	657.7	.541	1338.	.405	2336.
224.	499.0	1.792	1203.	695.3	.563	1437.	.405	700.
225.	261.7	1.406	1126.	716.3	.548	1150.	.432	2357.
226.	386.8	1.813	1216.	694.4	.548	1216.	.425	1949.
227.	519.6	1.600	1237.	709.2	.583	1406.	.436	2349.
228.	583.9	1.426	1115.	696.6	.550	1117.	.434	8.
229.	448.0	1.479	1130.	719.2	.592	1039.	.432	2400.
230.	443.2	1.516	1246.	637.0	.512	1244.	.400	2350.
231.	568.9	1.497	1147.	696.0	.561	1418.	.396	45.
232.	229.2	1.092	1135.	754.2	.581	1252.	.405	2400.
233.	477.0	1.781	1142.	566.7	.490	1212.	.351	2139.

Table 5. Land-station data for 1982: (1) Daily total short-wave solar radiation; (2) daily maximum short-wave solar radiation and the time it occurred; (3) daily total long-wave solar radiation; and (4) daily maximum and minimum long-wave solar radiation and the time they occurred. (continued)

SOLAR RADIATION DATA

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
234.	486.6	1.526	1158.	608.2	.474	2328.	.351	242.
235.	178.9	1.481	1116.	750.2	.565	2308.	.431	217.
236.	378.9	1.487	1044.	741.5	.568	1044.	.454	1930.
237.	57.6	.318	912.	752.6	.557	1503.	.443	610.
238.	552.8	1.365	1054.	692.5	.563	1615.	.405	451.
239.	443.4	1.632	1133.	716.9	.570	2023.	.385	2359.
240.	487.2	1.450	1244.	577.9	.490	1643.	.338	2355.
241.	359.3	1.755	1101.	560.0	.490	1232.	.327	520.
242.	484.4	1.313	1309.	654.6	.539	1510.	.344	34.
243.	346.4	1.381	1127.	709.1	.552	1222.	.440	1931.
244.	131.0	.557	742.	747.4	.541	1046.	.460	740.
245.	306.0	1.298	1218.	778.3	.590	1427.	.498	1121.
246.	464.5	1.531	1238.	707.2	.576	445.	.398	2218.

SOLAR RADIATION DATA

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
247.	471.3	1.590	1151.	652.8	.532	807.	.378	2400.
248.	526.6	1.225	1056.	604.8	.469	1343.	.371	125.
249.	505.4	1.189	1147.	676.2	.548	2147.	.396	50.
250.	533.9	1.238	1147.	589.7	.494	7.	.347	555.
251.	422.9	1.596	1200.	623.9	.528	1306.	.365	616.
252.	491.7	1.418	1202.	638.3	.505	1203.	.384	52.
253.	461.1	1.126	1134.	678.7	.528	1333.	.418	255.
254.	394.3	1.154	1100.	718.1	.574	1115.	.451	17.
255.	419.8	1.176	1115.	713.9	.570	1221.	.460	125.
256.	418.3	1.107	1200.	714.7	.557	1231.	.460	2351.
257.	352.3	1.094	1028.	727.1	.563	957.	.452	117.
258.	35.2	.141	1303.	779.8	.568	1400.	.469	112.
259.	68.7	.297	1147.	748.8	.536	1152.	.431	2225.
260.	283.4	1.445	1307.	618.1	.503	1255.	.353	2245.
261.	185.9	1.361	1003.	635.2	.518	1451.	.362	10.
262.	440.4	1.127	1149.	557.3	.498	1.	.344	425.
263.	264.4	1.382	1120.	653.7	.512	1945.	.356	8.

SOLAR RADIATION DATA

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
264.	158.3	.749	1420.	716.6	.525	1227.	.445	1934.
265.	104.0	.559	1049.	722.6	.521	1547.	.460	36.
266.	63.5	.496	952.	730.5	.532	953.	.407	1911.
267.	388.8	1.234	1133.	639.4	.509	54.	.398	2059.
268.	352.0	1.080	1131.	646.7	.514	1821.	.394	2316.
269.	345.3	1.253	1210.	663.1	.505	1511.	.407	1.
270.	50.7	.183	756.	753.9	.541	1447.	.461	6.
271.	145.2	.825	1201.	759.9	.552	859.	.463	2141.
272.	224.1	1.026	958.	732.2	.539	958.	.427	1649.
273.	279.4	1.104	955.	689.5	.548	1335.	.403	2334.
274.	288.8	1.053	1123.	694.0	.563	1604.	.400	2258.

Table 5. Land-station data for 1982: (1) Daily total short-wave solar radiation; (2) daily maximum short-wave solar radiation and the time it occurred; (3) daily total long-wave solar radiation; and (4) daily maximum and minimum long-wave solar radiation and the time they occurred. (continued)

SOLAR RADIATION DATA								
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
275.	346.6	1.213	1007.	563.2	.485	921.	.336	2350.
276.	355.3	1.254	1153.	610.4	.519	2212.	.340	35.
277.	347.3	1.154	1031.	610.6	.538	759.	.346	2353.
278.	365.4	.994	1141.	569.7	.438	1302.	.346	11.
279.	372.5	.959	1142.	615.3	.492	2400.	.394	825.
280.	166.2	.840	1022.	675.7	.512	1142.	.400	431.

SOLAR RADIATION DATA								
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
281.	56.2	.267	1049.	720.9	.516	2309.	.480	108.
282.	74.7	.449	1213.	696.0	.514	233.	.445	2400.
283.	370.0	.959	1137.	487.8	.447	14.	.298	556.
284.	377.0	.966	1130.	497.7	.387	700.	.309	2209.
285.	232.9	.991	1147.	615.7	.503	1249.	.336	4.
286.	104.6	.810	1244.	673.0	.501	2314.	.360	147.
287.	197.1	1.120	1142.	659.3	.518	1047.	.364	1807.

SOLAR RADIATION DATA								
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
288.	136.1	1.073	1028.	627.2	.499	1110.	.351	1724.
289.	178.7	1.060	1248.	611.6	.463	1418.	.353	1518.
290.	126.9	1.208	1253.	604.3	.454	1241.	.342	350.
291.	252.2	1.055	1151.	508.8	.460	1542.	.309	529.
292.	313.2	.872	1026.	549.5	.472	1529.	.333	5.
293.	284.0	.814	1135.	596.9	.510	1943.	.335	103.
294.	261.3	1.089	1120.	645.3	.509	55.	.364	1338.
295.	229.7	1.081	1200.	520.5	.431	1122.	.288	2257.
296.	211.8	1.106	1210.	524.2	.418	2219.	.289	19.
297.	298.1	.843	1137.	459.1	.398	110.	.286	2346.
298.	260.3	.832	1139.	498.7	.414	2237.	.278	620.
299.	278.2	.878	1104.	536.2	.414	1128.	.315	2329.
300.	292.5	.794	1115.	507.9	.389	1307.	.322	2319.
301.	258.3	.776	1147.	567.4	.467	1906.	.322	155.
302.	239.3	.846	1220.	614.0	.496	1549.	.346	14.
303.	224.7	.730	1229.	609.2	.470	803.	.360	148.
304.	116.8	.756	1058.	666.6	.525	1450.	.378	431.

Table 5. Land-station data for 1982: (1) Daily total short-wave solar radiation; (2) daily maximum short-wave solar radiation and the time it occurred; (3) daily total long-wave solar radiation; and (4) daily maximum and minimum long-wave solar radiation and the time they occurred. (continued)

SOLAR RADIATION DATA								
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
305.	99.1	.674	1215.	720.2	.538	1032.	.443	1952.
306.	29.6	.183	1123.	728.5	.514	1124.	.496	1850.
307.	52.0	.214	1242.	746.2	.536	2257.	.498	426.
308.	21.8	.157	907.	807.9	.586	2349.	.528	50.
309.	48.2	.306	1217.	685.6	.586	127.	.291	2211.
310.	103.8	.754	1029.	520.7	.432	1328.	.288	634.
311.	139.1	.883	1201.	541.0	.425	1355.	.311	2302.
312.	191.7	.745	1247.	572.9	.490	1351.	.317	27.
313.	186.7	.887	1115.	514.0	.438	554.	.300	1853.
314.	234.7	.700	1133.	424.6	.355	303.	.271	2353.

SOLAR RADIATION DATA								
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
315.	152.5	.776	1140.	559.2	.469	1641.	.266	52.
316.	35.1	.201	1414.	708.7	.543	2028.	.420	446.
317.	36.9	.193	1225.	632.2	.538	51.	.327	1658.
318.	200.6	.655	1138.	487.3	.423	2400.	.273	653.
319.	53.3	.853	1144.	581.8	.432	906.	.282	2358.
320.	208.5	.644	1140.	420.9	.355	2356.	.264	159.
321.	132.8	.582	1228.	485.9	.393	937.	.293	2351.
322.	209.7	.591	930.	465.7	.364	819.	.293	6.

SOLAR RADIATION DATA								
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
323.	215.9	.607	919.	496.4	.420	2351.	.306	1859.
324.	46.3	.150	1351.	622.6	.443	2400.	.414	313.
325.	16.9	.090	955.	666.0	.480	2353.	.440	50.
326.	37.5	.177	1241.	697.9	.501	1431.	.447	653.
327.	39.1	.240	1144.	709.8	.505	1249.	.481	753.
328.	39.5	.361	1412.	621.3	.499	619.	.253	2334.
329.	103.1	.717	1134.	501.7	.411	1431.	.246	208.
330.	38.5	.183	919.	569.3	.427	1359.	.282	103.
331.	30.7	.103	1118.	518.8	.425	121.	.224	2202.
332.	163.4	.711	1134.	467.4	.432	2311.	.228	9.
333.	22.5	.146	1125.	618.4	.460	2215.	.405	1943.
334.	35.3	.213	1442.	632.7	.456	26.	.393	1450.
335.	35.6	.181	1253.	599.7	.456	1132.	.338	1820.
336.	158.5	.531	1121.	568.5	.454	2400.	.340	2013.