CLIMATIC DATA FOR MIRROR LAKE, WEST THORNTON, NEW HAMPSHIRE 1986

By
A.M. Sturrock, D.C. Buso, J.L. Scarborough, T.C. Winter

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METRIC CONVERSION FACTORS

Multiply	*By*	*To obtain*
centimeter	0.394	inch
meter	3.281	foot
kilometer	0.621	mile
millibar	0.0145	pound per square inch
millibar	1.0197	gram per square centimeter
mile per hour	1.609	kilometer per hour
calories per square centimeter per minute	697.3	watt per square meter

To convert degrees Celsius (°C) to degrees Fahrenheit (°F) use the following formula: (°C×9/5)+32=°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 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 New York Botanical Garden, Institute of Ecosystem Studies. 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). Climatic data for the 1981 and 1982 open-water seasons are given in Sturrock and others (1984), those for the 1984 open-water season are given in Sturrock and others (1986), and those for the 1985 open-water season are given in Sturrock and others (1988).

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 1986 were collected from April 17 (Julian day 107) to November 21 (Julian day 325). Within table 1, 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 1986 is Julian days 107 through 113.

Climatic instruments are located on a raft near the middle of the lake and at a land station about 0.4 kilometer west of the lake. 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 digital data logger located on the raft. The data logger scans the sensors every minute and calculates hourly and daily

averages. In addition, maximum and minimum values and the times they occur are stored and recorded at midnight of each day for selected sensors. Vapor pressure of water (e_o) is calculated using water-temperature data and assuming the air is completely saturated at the air-water interface. Additional analog instruments for measuring water-surface temperature and wind speed also are located on the raft. These are used to backup the primary instruments for quality control and for filling in missing data. Calibration checks with laboratory thermometers and motorized psychrometers are made weekly.

The land station consists of short-wave and long-wave radiometers, located at the U.S. Forest Service's Hubbard Brook Station. 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.

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 satisfactory statistical relation could be established. Data used to establish regressions were selected so they bracketed the period of missing or inadequate data. Only table 1, which is considered to be the primary source of data for evaporation studies, includes values obtained by regression or some other form of estimation, as indicated in the footnotes to table 1.

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.

ACKNOWLEDGMENTS

We are grateful to Robert Pierce and Wayne Martin of the U.S. Forest Service for allowing us to place the land 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 (The New York Botanical Garden, Institute of Ecosystem Studies.) and F. H. Bormann (Yale University).

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Table 1. --*Summary of 1986 energy budget data*

[C, degrees Celsius; mb, millibars; mi/h, miles per hour; (cal/cm²)/d, calories per square centimeter per day; blank, no data; footnote reference numbers in column headings apply to all pages of table]

JULIAN DAY	DAILY AVERAGES AT RAFT STATION: LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C) 1/	WET-BULB AIR TEMPERATURE (C) 1/	WATER VAPOR PRESSURE (mb) 2/	ATMOSPHERIC VAPOR PRESSURE (mb) 1/	BOWEN RATIO
107	8.20	10.05	5.18	10.87	5.64	-0.213
108	9.24	9.01	5.02	11.66	6.11	0.025
109	10.03	8.28	3.23	12.30	4.39	0.133
110	10.57	9.90	4.75	12.75	5.20	0.053
111	10.65	6.94	6.28	12.82	9.10	0.602
112	10.38	8.31	4.85	12.59	6.36	0.200
113	9.26	7.23	2.69	11.68	4.44	0.169

JULIAN DAY	DAILY AVERAGES AT RAFT STATION: WIND SPEED AT 1 METER (mi/h) 3/	WIND SPEED AT 2 METERS (mi/h) 3/	WIND SPEED AT 3 METERS (mi/h) 3/	DAILY TOTALS AT LAND STATION: SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
107	2.29	2.37	2.60	601.7	546.2
108	2.54	2.60	2.98	599.0	532.1
109	2.45	2.39	2.92	617.0	501.9
110	2.75	2.59	3.23	565.8	582.2
111	1.76	1.53	2.32	44.6	678.9
112	6.95	6.71	7.57	593.5	581.2
113	8.34	8.20	9.02	211.9	620.2

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
114	8.92	12.34	5.97	11.41	5.14	-0.329
115	10.63	15.06	10.73	12.80	10.03	-0.963
116	12.88	14.60	12.42	14.85	12.97	-0.550
117	14.79	16.05	12.43	16.82	12.03	-0.159
118	15.79	16.21	12.06	17.93	11.33	-0.038
119	16.77	17.12	12.58	19.09	11.56	-0.028

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
114	7.04	6.85	7.62	550.7	576.8
115	3.23	3.08	3.74	568.9	684.3
116	1.56	1.46	2.02	336.8	735.0
117	2.16	2.08	2.73	565.2	676.8
118	2.43	2.37	2.94	620.4	649.6
119	2.63	2.58	3.09	572.8	672.6

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
120	16.87	14.54	10.98	19.21	10.75	0.166
121	15.98	13.39	9.23	18.15	8.91	0.169
122	14.45	5.93	2.81	16.45	5.44	0.466
123	12.26	1.25	4 {-1.60	14.26	3.58	0.621
124	11.29	3.49	0.17	13.38	4.02	0.502
125	11.27	8.31	7.13	13.36	9.33	0.443
126	11.26	9.59	8.75	13.35	10.73	0.384
127	11.10	7.88	7.39	13.21	9.96	0.597
128	10.98	6.75	6.13	13.10	9.03	0.626

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
120	2.17	2.15	2.63	302.6	686.9
121	3.81	3.79	4.41	398.3	665.6
122	6.18	6.14	6.87	372.1	597.0
123	7.52	7.57	8.32	488.0	506.8
124	5.41	5.39	6.06	530.1	534.0
125	1.85	1.80	2.56	148.8	686.1
126	1.71	1.78	2.50	76.6	707.6
127	1.37	1.63	2.37	87.8	696.8
128	1.20	1.55	2.08	101.8	668.7

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
129	11.90	9.07	4.97	13.93	6.01	0.215
130	12.83	11.97	6.15	14.81	5.63	0.056
131	13.31	10.41	6.18	15.28	6.68	0.203
132	12.93	11.28	6.62	14.90	6.69	0.121
133	13.93	13.90	8.03	15.91	6.88	0.002

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
129	2.27	2.44	2.99	672.3	561.4
130	2.78	2.74	3.39	658.8	570.8
131	2.41	2.36	3.04	483.9	601.6
132	3.19	3.32	3.86	297.9	646.9
133	2.34	2.25	2.92	697.3	586.6

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
134	14.68	13.32	7.82	16.70	6.97	0.084
135	15.32	13.68	8.70	17.40	7.97	0.105
136	15.67	13.28	11.68	17.80	12.67	0.281
137	16.70	17.03	15.85	19.00	17.22	-0.111
138	17.75	20.32	16.33	20.31	15.91	-0.352
139	19.89	22.70	18.72	23.22	18.93	-0.395
140	20.04	18.68	17.08	23.43	18.40	0.163

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
134	2.90	2.80	3.48	684.9	576.9
135	2.90	2.77	3.56	644.8	604.1
136	1.14	1.08	1.55	234.5	711.1
137	0.97	0.84	1.23	220.3	771.8
138	2.73	2.54	3.12	621.5	748.1
139	2.15	2.06	2.50	479.2	786.9
140	1.93	2.01	2.33	182.6	794.0

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
141	19.78	17.74	16.67	23.06	18.26	0.256
142	20.21	18.46	16.32	23.68	17.13	0.161
143	20.94	17.55	15.57	24.77	16.37	0.243
144	20.11	14.01	12.93	23.54	14.19	0.393
145	19.63	16.62	12.94	22.85	12.48	0.175
146	20.04	16.19	12.23	23.43	11.61	0.196

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
141	1.93	2.06	2.40	174.6	802.0
142	2.67	2.76	3.00	495.3	781.3
143	2.64	2.67	2.98	507.4	775.8
144	3.01	3.05	3.45	164.2	749.0
145	3.08	3.17	3.58	641.0	693.0
146	2.57	2.64	3.06	669.0	644.7

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
147	20.80	18.51	14.37	24.56	13.62	0.126
148	20.85	18.98	13.66	24.63	12.11	0.090
149	21.37	18.71	14.22	25.43	13.23	0.131
150	21.48	19.82	15.35	25.61	14.47	0.090
151	21.26	16.62	13.56	25.26	13.50	0.238
152	21.25	17.30	15.56	25.25	16.52	0.273
153	19.76	10.33	6.78	23.03	7.53	0.367
154	17.98	9.49	4.45	20.61	5.09	0.330
155	18.41	14.35	9.70	21.17	8.96	0.200

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
147	2.42	2.47	2.81	601.7	692.3
148	4.95	4.73	5.29	657.0	688.1
149	2.10	1.95	2.48	580.0	711.2
150	3.38	3.45	3.81	542.3	731.8
151	3.76	3.73	4.11	508.4	717.1
152	3.08	3.11	3.61	273.9	776.1
153	6.99	6.98	7.59	331.1	634.8
154	6.10	5.83	6.72	726.6	525.0
155	2.61	2.56	3.16	693.0	620.4

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
156	19.03	17.10	14.87	22.01	15.43	0.177
157	18.94	15.28	14.02	21.88	15.16	0.328
158	18.44	14.97	13.72	21.21	14.86	0.329
159	18.57	16.67	15.41	21.38	16.67	0.243
160	18.08	16.92	10.37	20.74	8.26	0.056
161	18.80	18.60	13.23	21.69	11.64	0.012
162	18.83	15.15	14.36	21.73	15.83	0.376
163	18.17	10.75	9.98	20.85	11.75	0.491
164	17.66	11.38	10.56	20.20	12.20	0.473
165	18.66	16.78	14.03	21.50	14.19	0.155
166	19.61	18.48	14.28	22.82	13.49	0.073
167	20.39	19.78	17.63	23.95	18.73	0.070
168	5 {19.14	6 {12.72	4 { 7.82	22.16	7.36	0.261
169	{18.44	{13.89	{ 8.65	21.21	7.76	0.204
170	18.72	15.62	11.48	21.59	10.81	0.173
171	18.96	15.22	11.93	21.91	11.78	0.222
172	19.49	15.78	11.25	22.65	10.35	0.182
173	20.60	18.71	14.09	24.26	13.01	0.101
174	20.76	18.04	15.85	24.50	16.55	0.206
175	20.65	17.18	14.42	24.33	14.59	0.215
176	19.53	10.00	7.16	22.70	8.26	0.398
177	19.28	13.32	9.88	22.35	9.91	0.289

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
156	2.10	2.19	2.65	365.9	744.3
157	0.86	0.91	1.30	89.1	764.2
158	1.05	1.12	1.52	107.0	761.9
159	1.66	1.76	2.18	197.3	738.5
160	9.36	9.21	10.10	734.3	558.6
161	3.22	2.93	3.89	663.5	604.3
162	1.11	1.11	1.55	122.4	702.0
163	1.89	1.95	2.59	94.3	672.9
164	1.12	1.12	1.68	194.0	685.4
165	2.00	2.12	2.59	565.5	668.2
166	2.37	2.53	2.94	684.7	669.0
167	2.28	2.42	2.82	326.0	746.2
168				861.9	584.8
169				647.1	688.2
170	3.54	3.87	4.48	898.6	631.2
171	2.39	3.05	3.71	370.7	711.7
172	1.65	2.75	3.30	729.2	688.7
173	1.31	2.12	2.56	714.0	720.9
174	1.84	2.13	2.59	423.9	740.6
175	3.48	4.82	5.36	609.2	731.0
176	5.26	5.74	6.43	537.4	686.5
177	2.59	2.98	3.62	602.5	707.4

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
178	19.15	14.49	13.67	22.17	15.10	0.397
179	20.27	20.19	17.63	23.77	18.45	0.009
180	20.45	17.48	14.35	24.03	14.27	0.183
181	19.90	15.58	11.98	23.23	11.62	0.224
182	20.42	16.59	12.39	23.99	11.61	0.186

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm^2)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm^2)/d]
178	1.00	1.19	1.79	137.8	798.0
179	1.85	2.16	2.66	512.5	812.0
180	3.55	3.96	4.62	552.0	741.4
181	4.46	5.05	5.57	564.5	713.2
182	2.18	2.74	3.15	692.0	707.2

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
183	20.14	13.68	12.69	23.58	14.02	0.407
184	19.81	14.20	12.73	23.10	13.74	0.361
185	19.48	14.19	12.06	22.63	12.67	0.320
186	19.52	17.04	16.88	22.69	19.12	0.418
187	19.46	18.38	18.11	22.60	20.60	0.324
188	20.74	23.26	19.22	24.47	19.58	-0.310
189	21.73	21.42	16.41	26.00	15.33	0.018
190	21.98	20.74	15.72	26.40	14.52	0.063
191	21.08	15.61	11.37	24.99	10.65	0.230
192	20.69	14.97	11.07	24.39	10.61	0.250
193	20.32	12.28	11.52	23.84	13.08	0.450
194	19.87	13.54	13.36	23.19	15.21	0.478
195	19.60	15.47	14.96	22.80	16.66	0.405
196	19.73	18.50	14.86	22.99	14.48	0.087
197	20.94	18.28	15.42	24.77	15.61	0.175

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
183	1.72	2.03	2.61	202.0	779.2
184	3.22	3.77	4.51	233.6	763.9
185	1.23	2.00	2.62	365.6	722.0
186	1.07	1.39	1.86	102.8	828.0
187	1.12	1.96	2.36	89.6	845.0
188	3.24	3.66	4.14	605.6	822.0
189	3.33	3.68	4.20	704.4	730.7
190	3.94	4.26	4.82	544.9	741.0
191	6.87	7.51	8.17	759.4	663.6
192	5.30	5.83	6.37	643.9	637.3
193	1.22	1.56	1.99	149.3	725.3
194	1.26	1.58	2.01	67.5	776.7
195	1.32	1.61	2.08	158.6	777.8
196	5.85	6.53	7.10	640.0	695.4
197	1.33	1.88	2.19	530.5	717.1

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
198	21.32	19.35	16.94	25.36	17.69	0.155
199	22.04	20.88	18.04	26.50	18.79	0.091
200	22.47	20.15	18.24	27.20	19.67	0.186
201	22.37	19.36	18.76	27.03	21.24	0.313
202	22.28	19.50	16.35	26.89	16.49	0.161
203	22.77	18.34	14.89	27.70	14.64	0.204
204	23.00	20.18	17.13	28.09	17.50	0.161

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
198	1.21	1.63	2.05	424.4	751.1
199	2.09	2.46	2.91	598.6	753.8
200	2.36	3.34	3.82	574.4	772.8
201	1.18	1.75	2.22	107.9	841.0
202	4.40	4.72	5.32	620.0	724.3
203	1.67	2.39	2.74	682.1	688.0
204	2.25	2.70	3.07	540.8	745.0

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
205	23.52	21.78	18.70	28.98	19.51	0.111
206	23.99	22.52	20.62	29.81	23.02	0.130
207	24.12	21.96	20.87	30.05	23.94	0.213
208	24.04	21.28	20.44	29.90	23.46	0.258
209	24.55	22.36	20.64	30.83	23.17	0.172
210	24.21	19.89	19.42	30.21	22.24	0.326
211	23.57	18.11	17.01	29.07	18.65	0.316
212	23.23	17.84	16.76	28.48	18.36	0.321
213	23.26	19.65	18.88	28.53	21.29	0.300
214	23.76	20.59	19.07	29.41	21.05	0.229
215	24.12	21.17	19.71	30.05	21.99	0.220
216	24.08	19.58	16.51	29.98	16.74	0.205
217	24.31	19.38	16.32	30.39	16.52	0.214
218	24.31	19.91	18.12	30.39	19.60	0.246

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
205	1.81	2.70	2.98	572.0	776.1
206	1.29	1.65	1.86	327.4	809.0
207	1.29	1.98	2.33	274.7	842.0
208	1.09	1.76	2.12	266.7	852.0
209	1.58	2.56	2.94	469.1	847.0
210	1.52	1.98	2.40	100.7	843.0
211	1.74	2.17	2.56	170.3	809.0
212	1.07	2.10	2.12	254.1	808.0
213	0.92	1.52	1.66	225.7	834.0
214	1.21	2.33	2.53	466.0	809.0
215	1.31	2.51	2.73	435.8	802.0
216	2.27	2.34	3.15	523.7	746.2
217	2.10	2.09	3.06	628.3	718.7
218	1.43	2.08	2.80	410.1	774.5

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
219	23.82	18.86	18.76	29.51	21.57	0.376
220	23.99	20.59	19.70	29.81	22.35	0.275
221	24.01	19.58	18.48	29.85	20.53	0.286
222	24.36	21.25	18.94	30.48	20.35	0.185
223	24.31	20.63	18.03	30.39	18.94	0.194
224	23.90	16.86	13.55	29.65	13.33	0.260

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
219	1.15	1.26	1.80	86.0	829.0
220	1.47	2.10	2.64	366.4	813.0
221	1.62	1.91	2.47	339.8	806.0
222	1.58	2.31	2.83	451.3	786.8
223	3.05	3.54	4.04	430.6	780.7
224	2.61	3.16	3.60	493.8	671.3

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
225	23.74	16.22	13.34	29.37	13.40	0.284
226	23.78	17.40	14.57	29.44	14.70	0.261
227	23.34	18.16	16.77	28.67	18.17	0.297
228	23.29	20.14	19.80	28.58	22.86	0.332
229	23.96	21.69	20.16	29.76	22.59	0.191
230	24.08	20.61	20.04	29.98	23.05	0.302
231	23.64	19.99	18.05	29.19	19.41	0.225
232	23.95	19.74	17.50	29.74	18.50	0.226

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm^2)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm^2)/d]
225	1.52	2.84	3.30	540.8	673.1
226	1.27	1.34	2.23	513.6	695.5
227	1.06	1.14	1.76	262.2	778.3
228	0.91	1.10	1.49	166.6	835.0
229	1.52	2.18	2.84	452.6	825.0
230	1.22	1.76	2.27	223.0	829.0
231	2.62	2.55	3.50	255.8	802.0
232	1.80	1.91	2.76	470.8	781.1

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
233	24.15	19.92	17.54	30.10	18.46	0.219
234	23.96	17.72	14.59	29.76	14.53	0.247
235	23.39	14.49	13.41	28.76	14.66	0.380
236	22.65	14.49	12.45	27.50	13.09	0.341
237	21.37	14.11	11.41	25.43	11.70	0.319
238	21.42	15.23	12.40	25.51	12.52	0.287
239	21.06	16.92	15.29	24.95	16.29	0.288

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm^2)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm^2)/d]
233	1.87	2.19	3.12	499.8	784.1
234	4.31	4.25	5.47	590.4	695.4
235	1.53	1.53	2.47	213.0	745.4
236	5.63	5.84	6.87	254.3	746.3
237	6.24	6.84	7.48	138.4	700.1
238	1.73	2.11	2.69	573.8	673.8
239	3.40	3.87	4.43	188.6	772.9

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
240	20.28	10.58	7.65	23.78	8.54	0.384
241	19.67	9.61	6.79	22.90	8.02	0.407
242	19.68	12.04	9.48	22.92	10.17	0.361
243	19.72	14.49	12.07	22.97	12.48	0.300
244	20.26	15.63	13.70	23.75	14.39	0.298
245	20.01	16.05	14.43	23.39	15.36	0.297
246	19.34	14.24	13.31	22.44	14.66	0.395
247	19.20	13.21	12.25	22.24	13.62	0.419

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
240	4.58	4.91	5.74	275.9	631.8
241	3.44	3.54	4.40	451.1	588.5
242	2.54	2.67	3.45	547.8	639.9
243	2.79	2.85	3.73	509.2	662.2
244	1.30	1.27	2.14	394.6	693.0
245	1.13	1.14	1.97	310.5	707.3
246	2.01	2.09	2.88	129.1	772.4
247	1.54	1.70	2.62	134.9	757.1

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
248	18.94	13.62	13.58	21.88	15.52	0.504
249	19.40	16.67	14.05	22.52	14.30	0.200
250	19.07	12.02	9.93	22.06	10.84	0.378
251	18.99	10.37	8.14	21.95	9.36	0.412
252	19.01	12.09	9.63	21.98	10.35	0.359

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm^2)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm^2)/d]
248	0.90	0.89	1.43	23.3	784.2
249	2.33	2.45	3.28	422.2	732.1
250	2.13	2.29	2.93	317.6	670.0
251	2.61	2.46	3.32	534.5	597.0
252	2.10	2.01	2.78	463.2	648.6

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
253	18.91	13.36	12.05	21.84	13.20	0.387
254	19.01	16.81	16.61	21.98	18.76	0.412
255	19.11	18.67	17.66	22.12	19.52	0.102
256	18.85	14.56	10.65	21.76	10.24	0.224
257	18.25	8.70	5.58	20.96	7.03	0.413
258	17.95	8.46	6.38	20.57	8.23	0.464
259	17.34	7.91	6.17	19.79	8.31	0.495
260	16.84	9.64	7.04	19.17	8.33	0.400
261	16.83	9.89	8.27	19.16	9.86	0.449

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
253	1.30	1.39	2.13	292.7	723.8
254	0.79	0.79	1.15	136.4	812.0
255	2.09	2.46	3.08	144.1	799.0
256	4.38	4.63	5.46	499.3	644.3
257	5.24	5.55	6.43	479.0	560.6
258	2.91	2.65	3.79	405.0	644.5
259	6.36	6.89	7.64	209.7	659.0
260	4.99	5.28	6.11	477.3	558.1
261	1.48	1.83	2.58	345.4	649.1

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
262	16.91	12.73	11.10	19.26	12.13	0.353
263	16.72	12.28	12.10	19.03	13.99	0.531
264	16.53	11.29	10.74	18.80	12.53	0.504
265	16.56	10.76	9.17	18.84	10.56	0.422
266	16.36	12.65	12.58	18.60	14.52	0.548
267	16.88	14.40	12.71	19.22	13.57	0.264

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
262	2.01	2.15	2.80	350.6	685.5
263	0.79	0.92	1.37	60.0	751.5
264	1.14	1.45	2.06	147.8	706.6
265	1.29	1.69	2.11	323.5	689.6
266	0.97	1.14	1.53	50.7	767.9
267	1.65	2.00	2.56	384.9	713.1

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
268	16.74	13.11	10.50	19.05	10.97	0.271
269	16.81	13.36	11.00	19.14	11.56	0.274
270	16.64	10.75	7.48	18.93	8.20	0.331
271	16.48	10.27	8.56	18.74	10.01	0.429
272	16.76	15.49	14.97	19.08	16.67	0.318
273	17.40	19.81	17.89	19.87	19.21	-2.221
274	17.43	16.39	13.91	19.90	14.24	0.111
275	16.91	11.99	11.30	19.26	12.93	0.468

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm^2)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm^2)/d]
268	3.80	2.32	4.78	438.7	648.7
269	2.27	2.71	3.09	270.8	710.1
270	2.25	2.61	3.26	434.3	565.4
271	1.11	1.22	1.66	273.5	689.9
272	0.92	1.09	1.43	137.7	790.9
273	2.36	2.48	3.06	241.0	815.0
274	4.03	4.43	5.10	238.9	728.9
275	1.25	1.69	2.08	164.3	716.3

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
276	16.50	11.06	10.37	18.76	12.13	0.494
277	16.34	12.99	11.97	18.57	13.32	0.384
278	16.04	8.21	6.47	18.22	8.51	0.486
279	15.48	4.79	2.95	17.58	6.35	0.574
280	14.69	3.96	1.93	16.71	5.69	0.587
281	14.58	8.87	6.45	16.59	8.06	0.403

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
276	1.44	1.86	2.46	142.5	705.6
277	3.02	3.25	3.90	131.6	755.3
278	4.08	4.51	5.09	272.0	646.5
279	6.41	7.28	7.94	199.1	632.1
280	3.72	3.92	4.40	351.1	551.5
281	1.56	2.09	2.49	335.3	632.4

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
282	14.29	8.86	7.48	16.28	9.44	0.478
283	13.65	2.77	-0.05	15.62	4.25	0.577
284	13.29	3.21	1.68	15.26	5.90	0.649
285	13.15	6.24	4.85	15.12	7.72	0.562
286	12.94	8.79	8.42	14.91	10.79	0.607
287	13.03	12.46	12.18	15.00	14.00	0.344
288	12.67	8.23	5.66	14.65	7.44	0.371

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm^2)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm^2)/d]
282	3.94	4.28	4.69	60.5	682.1
283	3.91	4.24	4.65	384.6	478.2
284	1.83	2.65	2.96	381.4	517.6
285	1.25	1.86	2.17	309.5	589.5
286	0.75	0.81	0.91	76.0	717.3
287	1.27	1.34	1.51	39.5	761.6
288	3.42	3.69	3.95	157.3	589.1

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
289	12.37	5.75	4.58	14.36	7.71	0.600
290	12.18	7.05	4.59	14.19	6.86	0.422
291	11.99	4.07	2.30	14.01	6.05	0.600
292	11.69	7.15	3.18	13.74	5.07	0.316
293	11.61	8.40	5.76	13.66	7.46	0.312
294	11.65	9.02	7.89	13.70	9.90	0.417
295	11.69	10.10	7.79	13.74	9.05	0.205
296	11.63	9.94	7.78	13.68	9.14	0.224

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
289	1.34	1.60	1.83	96.4	649.3
290	1.60	2.44	2.70	153.7	649.9
291	2.87	3.13	3.38	283.0	546.6
292	3.36	3.94	4.31	267.2	561.0
293	1.45	2.00	2.25	202.8	632.9
294	1.49	1.72	2.02	150.4	677.0
295	1.83	2.35	2.74	274.6	609.8
296	4.07	4.53	5.09	183.2	673.4

Table 1. *--Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
297	11.28	5.01	2.20	13.37	5.32	0.470
298	10.98	5.31	2.59	13.10	5.58	0.454
299	10.70	5.66	3.95	12.86	6.98	0.516
300	10.57	6.92	6.82	12.75	9.83	0.752
301	10.62	9.78	8.61	12.79	10.41	0.212
302	10.85	9.08	7.62	12.99	9.49	0.305
303	10.11	6.11	4.09	12.36	6.85	0.437

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
297	5.66	6.03	6.79	233.3	514.9
298	2.58	2.80	3.39	294.4	531.4
299	1.14	1.39	1.89	107.5	653.6
300	0.85	0.84	1.04	44.1	708.1
301	2.94	3.31	3.76	105.7	697.8
302	1.26	1.80	2.21	254.9	632.1
303	5.11	5.53	6.13	155.8	609.1

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
304	10.13	1.49	-0.26	12.38	4.85	0.691
305	9.99	3.87	2.77	12.27	6.73	0.666
306	9.62	4.58	3.20	11.96	6.78	0.586
307	9.31	1.18	-0.09	11.72	5.24	0.756
308	8.95	1.63	0.50	11.44	5.59	0.754
309	8.28	-2.11	4 (-4.36	10.93	2.96	0.786

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
304	2.13	2.83	3.38	284.8	462.4
305	0.88	1.26	1.63	244.1	579.7
306	3.66	4.05	4.44	80.5	608.3
307	1.04	1.49	1.76	211.1	528.6
308	3.34	3.82	4.09	61.8	559.6
309	2.24	3.07	3.55	123.9	508.1

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION: LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
310	7.84	0.82	0.49	10.61	6.11	0.940
311	7.75	1.96	1.49	10.54	6.50	0.862
312	7.50	2.51	2.31	10.36	7.09	0.918
313	7.48	5.67	4.78	10.35	8.01	0.467
314	7.15	2.42	-0.67	10.12	3.81	0.452
315	6.77	-1.06	-1.32	9.86	5.37	1.053
316	6.62	0.51	0.09	9.75	5.88	0.950

JULIAN DAY	DAILY AVERAGES AT RAFT STATION: WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	DAILY TOTALS AT LAND STATION: SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
310	0.79	0.95	1.14	71.1	628.5
311	1.24	1.57	2.05	249.9	535.4
312	0.86	0.88	1.20	15.0	640.5
313	2.10	2.26	2.61	47.3	624.7
314	5.21	5.56	6.11	134.9	490.7
315	0.88	0.92	1.40	28.3	571.7
316	1.10	1.18	1.42	161.8	555.2

Table 1. --*Summary of 1986 energy budget data--Continued*

JULIAN DAY	DAILY AVERAGES AT RAFT STATION					
	LAKE-SURFACE WATER TEMPERATURE (C)	DRY-BULB AIR TEMPERATURE (C)	WET-BULB AIR TEMPERATURE (C)	WATER VAPOR PRESSURE (mb)	ATMOSPHERIC VAPOR PRESSURE (mb)	BOWEN RATIO
317	6.29	-3.63	-3.86	9.54	4.45	1.174
318	5.42	-5.32	-5.32	8.98	4.11	1.330
319	5.22	-0.52	-1.23	8.85	5.12	0.928
320	5.34	2.48	1.04	8.93	5.65	0.525
321	5.21	2.87	1.58	8.85	6.01	0.498
322	5.08	1.97	-0.20	8.77	4.61	0.450
323	4.77	-3.98	-4.15	8.58	4.38	1.255
324	4.04	-6.46	-6.46	8.16	3.77	1.443
325	3.67	-0.30	-0.70	7.95	5.55	0.997

JULIAN DAY	DAILY AVERAGES AT RAFT STATION			DAILY TOTALS AT LAND STATION	
	WIND SPEED AT 1 METER (mi/h)	WIND SPEED AT 2 METERS (mi/h)	WIND SPEED AT 3 METERS (mi/h)	SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	LONG-WAVE ATMOS. RADIATION [(cal/cm²)/d]
317	5.77	6.30	6.98	189.1	447.9
318	4.03	4.25	5.03	217.9	388.9
319	1.21	1.74	2.12	152.9	545.1
320	0.99	1.04	1.38	162.7	569.5
321	1.99	2.19	2.44	159.3	546.7
322	3.46	3.77	4.14	7 {137.6	8 {552.6
323	5.51	6.05	6.45	165.1	449.6
324	1.32	1.44	1.82	53.7	480.1
325	7.68	8.76	9.33	43.8	584.3

Footnotes to table 1:

1. Measured at 2 meters above water surface.

2. Water-vapor pressure is calculated using surface water-temperature data and assuming the air is completely saturated with water at the air-water interface.

3. Elevation above water surface.

4. Wet-bulb air temperature (Y) was calculated by regression equation 1 (see below), which was determined by using relative humidity data (X) from the hygrothermograph, the pyschrometric tables, and the wet-bulb temperature sensor connected to the digital data logger.

5. Water temperatures from 1600 hours on Julian day 168 to 1100 hours on Julian day 169 were estimated from a plot of temperatures typical of evening, night, and morning temperatures characteristic of that time of year and similar climatic conditions.

6. Dry-bulb temperature (Y) was calculated by regression equation 2 (see below), which was determined by using air-temperature data (X) from the hygrothermograph and the dry-bulb temperature sensor connected to the digital data logger.

7. Short-wave radiation (Y) was calculated by regression equation 3 (see below), which was determined by using radiation data (X) collected by the U. S. Forest Service at the Hubbard Brook Field Headquarters and radiation data collected by the U. S. Geological Survey at the same location.

8. Long-wave radiation = $s \cdot T^4 (c+d\sqrt{e_a})$
where s = Stephan-Boltzman constant, 5.6697×10^{-5} erg per square centimeter per second $(°K)^{-4}$
T = air temperature, Kelvin
c = constant (determined graphically)
d = 0.0263
e_a = vapor pressure of air.

Regression	Data points	r^2 value
1. $Y = -0.012 + 0.964X$	28	0.98
2. $Y = 0.608 + 1.010X$	16	0.99
3. $Y = -5.00 + 24.00X$	91	0.99

Table 2. --*Summary of 1986 temperature data at the raft station*
[C, degrees Celsius; h, hour; blank, no data;]

JULIAN DAY	DAILY AVERAGE LAKE-SURFACE WATER TEMPERATURE (C)	DAILY AVERAGE DRY-BULB AIR TEMPERATURE (C)	DAILY MAXIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MAXIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY MINIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MINIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY AVERAGE WET-BULB AIR TEMPERATURE (C)
107	8.20	10.05	19.81	1625	-0.59	0516	5.18
108	9.24	9.01	17.79	1617	1.08	0525	5.02
109	10.03	8.28	17.88	1735	-1.11	0453	3.23
110	10.57	9.90	19.11	1643	-0.85	0503	4.75
111	10.65	6.94	8.47	1550	4.78	0557	6.28
112	10.38	8.31	12.34	1534	4.95	2359	4.85
113	9.26	7.23	10.58	1442	3.55	0511	2.69
114	8.92	12.34	19.11	1615	5.39	0523	5.97
115	10.63	15.06	21.49	1717	7.33	0539	10.73
116	12.88	14.60	20.43	1616	10.84	0216	12.42
117	14.79	16.05	23.25	1541	9.88	2400	12.43
118	15.79	16.21	24.48	1529	7.07	0517	12.06
119	16.77	17.12	25.36	1524	8.20	0443	12.58
120	16.87	14.54	21.93	1733	7.68	2351	10.98
121	15.98	13.39	22.54	1404	5.13	0447	9.23
122	14.45	5.93	10.31	0337	2.32	2359	2.81
123	12.26	1.25	4.51	1322	-1.20	0611	
124	11.29	3.49	8.91	1700	-1.90	0108	
125	11.27	8.31	14.62	1558	2.05	0447	7.13
126	11.26	9.59	11.19	0807	7.51	2358	8.75
127	11.10	7.89	9.44	1513	6.63	0700	7.39
128	10.98	6.75	7.86	1716	4.78	2311	6.14
129	11.90	9.07	16.74	1700	1.61	0607	4.97
130	12.83	11.97	21.31	1452	0.03	0440	6.15
131	13.31	10.41	18.23	1637	3.28	0455	6.18
132	12.93	11.28	15.42	1714	4.43	0232	6.62
133	13.93	13.90	22.19	1717	4.78	0455	8.03
134	14.68	13.32	22.19	1635	2.93	0429	7.82
135	15.32	13.68	22.28	1725	3.19	0448	8.70
136	15.67	13.28	20.96	0919	6.10	0354	11.68

Table 2. --*Summary of 1986 temperature data at the raft station--Continued*

JULIAN DAY	DAILY AVERAGE LAKE-SURFACE WATER TEMPERATURE (C)	DAILY AVERAGE DRY-BULB AIR TEMPERATURE (C)	DAILY MAXIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MAXIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY MINIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MINIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY AVERAGE WET-BULB AIR TEMPERATURE (C)
137	16.70	17.03	24.04	1352	13.57	2358	15.85
138	17.75	20.32	30.11	1600	11.19	0447	16.33
139	19.89	22.70	30.99	1411	15.77	0450	18.72
140	20.04	18.68	22.19	1336	16.47	0329	17.08
141	19.78	17.74	20.78	1311	15.77	2336	16.67
142	20.21	18.46	22.28	1513	15.42	0501	16.32
143	20.94	17.55	22.63	1523	14.10	2326	15.57
144	20.11	14.01	16.03	1116	11.90	2359	12.93
145	19.63	16.62	24.65	1624	8.91	0421	12.94
146	20.04	16.19	23.77	1654	7.42	0414	12.23
147	20.80	18.51	28.17	1452	8.20	0502	14.37
148	20.85	18.98	24.12	1250	11.11	2351	13.66
149	21.37	18.71	28.35	1632	6.98	0422	14.22
150	21.48	19.82	25.62	1524	14.71	2400	15.35
151	21.26	16.62	21.05	1552	13.48	0305	13.56
152	21.25	17.30	23.95	1221	13.39	2400	15.56
153	19.76	10.33	13.83	0016	6.71	2400	6.78
154	17.98	9.49	16.91	1750	4.34	0438	4.45
155	18.41	14.35	25.09	1622	2.49	0405	9.70
156	19.03	17.10	24.48	1420	9.88	0449	14.87
157	18.94	15.28	16.82	1626	13.39	2352	14.02
158	18.44	14.97	17.97	1001	12.87	0403	13.72
159	18.57	16.67	22.81	2102	12.69	0531	15.41
160	18.08	16.92	20.69	0020	11.81	0538	10.37
161	18.80	18.60	26.15	1625	10.14	0430	13.23
162	18.83	15.15	19.73	1415	12.78	0415	14.36
163	18.17	10.75	15.06	0251	6.54	2227	9.98
164	17.66	11.38	17.00	1657	6.71	0105	10.56
165	18.66	16.78	24.65	1527	10.58	0512	14.03
166	19.61	18.48	26.15	1650	11.19	0344	14.28
167	20.39	19.78	25.44	1407	13.83	0037	17.63
168							

Table 2. --*Summary of 1986 temperature data at the raft station--Continued*

JULIAN DAY	DAILY AVERAGE LAKE-SURFACE WATER TEMPERATURE (C)	DAILY AVERAGE DRY-BULB AIR TEMPERATURE (C)	DAILY MAXIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MAXIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY MINIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MINIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY AVERAGE WET-BULB AIR TEMPERATURE (C)
169							
170	18.72	15.62	23.45	1731	7.57	0059	11.48
171	18.96	15.22	21.01	1426	10.32	2356	11.93
172	19.49	15.78	22.74	1603	6.01	0422	11.25
173	20.60	18.71	27.33	1620	7.86	0400	14.09
174	20.76	18.04	26.85	1547	13.08	0416	15.85
175	20.65	17.18	24.40	1120	10.47	0432	14.42
176	19.53	10.00	12.86	1349	5.01	2349	7.16
177	19.28	13.32	20.60	1540	2.63	0458	9.88
178	19.15	14.49	18.15	1450	11.78	0503	13.67
179	20.27	20.19	28.22	1456	14.28	0402	17.63
180	20.45	17.48	24.62	1257	9.82	2355	14.35
181	19.90	15.58	21.33	1414	8.82	0319	11.98
182	20.42	16.59					12.39
183	20.14	13.68	16.42	1555	12.08	0632	12.69
184	19.81	14.20	21.14	1056	11.48	2359	12.73
185	19.48	14.19	21.69	1650	7.73	0345	12.06
186	19.52	17.04	20.03	2341	13.80	0336	16.88
187	19.46	18.38	19.31	1042	17.58	0256	18.11
188	20.74	23.26	31.31	1335	16.72		19.22
189	21.73	21.42	27.33	1614	14.74	0405	16.41
190	21.98	20.74	24.92	1432	15.91	0138	15.72
191	21.08	15.61	18.55	1150	12.32	2330	11.37
192	20.69	14.97	19.74	1429	9.09	2351	11.07
193	20.32	12.28	16.50	1021	7.49	0303	11.52
194	19.87	13.54	14.58	1120	12.56	0322	13.36
195	19.60	15.47	19.97	1657	13.03	0335	14.96
196	19.73	18.50	23.21	1448	12.42	2359	14.86
197	20.94	18.28	27.54	1029	10.23	0453	15.42
198	21.32	19.35	27.31	1223	11.89	0428	16.94
199	22.04	20.88	28.69	1444	14.20	0408	18.04
200	22.47	20.15	24.60	1446	14.37	0419	18.24

Table 2. *--Summary of 1986 temperature data at the raft station--Continued*

JULIAN DAY	DAILY AVERAGE LAKE-SURFACE WATER TEMPERATURE (C)	DAILY AVERAGE DRY-BULB AIR TEMPERATURE (C)	DAILY MAXIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MAXIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY MINIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MINIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY AVERAGE WET-BULB AIR TEMPERATURE (C)
201	22.37	19.36	22.33	1210	17.15	0612	18.76
202	22.28	19.50	23.61	1652	12.09	2349	16.35
203	22.77	18.34	26.29	1416	10.45	0248	14.89
204	23.00	20.18	27.77	1432	11.88	0442	17.13
205	23.52	21.78	29.03	1603	14.67	0447	18.70
206	23.99	22.52	28.68	1514	17.44	0505	20.62
207	24.12	21.96	28.83	1521	17.68	0533	20.87
208	24.04	21.28	24.83	1325	18.85	2356	20.44
209	24.55	22.36	26.48	1443	18.51	0336	20.64
210	24.21	19.89					19.42
211	23.57	18.11					17.01
212	23.23	17.84	21.61	1046	15.07	0101	16.76
213	23.26	19.65	24.13	1415	17.03	0224	18.88
214	23.76	20.59	26.50	1218	17.03	0405	19.07
215	24.12	21.17	25.57	1526	16.98	2351	19.71
216	24.08	19.58					16.51
217	24.31	19.38	26.23	1617	11.86	0445	16.32
218	24.31	19.91					18.12
219	23.82	18.86	21.77	1635	16.36	0536	18.76
220	23.99	20.59	25.41	1358	16.90	0429	19.70
221	24.01	19.58	26.57	1317	16.89	0421	18.48
222	24.36	21.25	26.69	1038	16.53	0133	18.94
223	24.31	20.63	25.57	1050	16.56	2112	18.03
224	23.90	16.86	22.50	1709	11.31	2359	13.55
225	23.74	16.22	23.58	1638	9.19	0523	13.34
226	23.78	17.40	25.68	0949	9.31	0453	14.57
227	23.34	18.16	23.95	1639	12.33	0339	16.77
228	23.29	20.14	23.70	1613	18.13	0549	19.80
229	23.96	21.69	26.71	1303	16.89	0455	20.16
230	24.08	20.61	25.32	1118	18.19		20.04
231	23.64	19.99	23.88	1424	16.23	0515	18.05
232	23.95	19.74					17.50

Table 2. --*Summary of 1986 temperature data at the raft station--Continued*

JULIAN DAY	DAILY AVERAGE LAKE-SURFACE WATER TEMPERATURE (C)	DAILY AVERAGE DRY-BULB AIR TEMPERATURE (C)	DAILY MAXIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MAXIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY MINIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MINIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY AVERAGE WET-BULB AIR TEMPERATURE (C)
233	24.15	19.92	24.41	0705	16.59	0453	17.54
234	23.96	17.72	21.52	1519	10.89	2356	14.59
235	23.39	14.49	18.26	1328	8.65	0523	13.41
236	22.65	14.49	17.56	0303	11.45	1926	12.45
237	21.37	14.11	18.64	1634	9.90	2354	11.41
238	21.42	15.23	23.82	1600	5.99	0533	12.40
239	21.06	16.92	23.66	1501	12.86	0325	15.29
240	20.28	10.58	14.02	1529	5.03	2245	7.65
241	19.67	9.61	16.15	1705	3.55	0502	6.79
242	19.68	12.04	21.00	1528	2.42	0456	9.48
243	19.72	14.49	22.24	1523	7.59	0434	12.07
244	20.26	15.63	24.24	1540	8.07	0454	13.70
245	20.01	16.05					14.43
246	19.34	14.24					13.31
247	19.20	13.21	15.49	1313	10.62	0543	12.25
248	18.94	13.62	15.20	2331	12.10	0501	13.58
249	19.40	16.67	22.36	1149	10.47	2350	14.05
250	19.07	12.02	18.03	1546	7.42	0428	9.93
251	18.99	10.37	17.56	1642	4.09	0527	8.14
252	19.01	12.09	21.93	1537	3.49	0541	9.63
253	18.91	13.36	20.01	1219	6.29	0527	12.05
254	19.01	16.81	20.88	1341	12.98	0510	16.61
255	19.11	18.67	23.71	1504	14.74		17.66
256	18.85	14.56	20.51	1620	8.04	0552	10.65
257	18.25	8.70	13.54	1628	2.59	2333	5.58
258	17.95	8.46	15.68	1521	1.70	0529	6.38
259	17.34	7.91	10.41	2342	4.39	0708	6.17
260	16.84	9.64	15.85	1551	3.96	2348	7.04
261	16.83	9.89	16.92	1130	1.59	0551	8.27
262	16.91	12.73	19.60	1200	4.45	0600	11.10
263	16.72	12.28	15.04	1118	10.44	0615	12.10
264	16.53	11.29	17.93	1546	5.87		10.74

Table 2. --*Summary of 1986 temperature data at the raft station--Continued*

JULIAN DAY	DAILY AVERAGE LAKE-SURFACE WATER TEMPERATURE (C)	DAILY AVERAGE DRY-BULB AIR TEMPERATURE (C)	DAILY MAXIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MAXIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY MINIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MINIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY AVERAGE WET-BULB AIR TEMPERATURE (C)
265	16.56	10.76	17.49	1211	2.12	0523	9.17
266	16.36	12.65	14.37	1311	11.27	2348	12.58
267	16.88	14.40	22.66	1331	9.13	2350	12.71
268	16.74	13.11	19.29	1330	7.23	2353	10.50
269	16.81	13.36	19.57	1459	5.57	0352	11.00
270	16.64	10.75	19.24	1522	3.71	2342	7.48
271	16.48	10.27	19.01	1405	1.17	0427	8.56
272	16.76	15.49	21.03	1242	11.20	0207	14.97
273	17.40	19.81	27.16	1319	15.89	0459	17.89
274	17.43	16.39	20.04	0332	10.32	2331	13.91
275	16.91	11.99					11.30
276	16.50	11.06	14.51	1150	6.16	0602	10.37
277	16.34	12.99	16.68	1001	9.73	2358	11.97
278	16.04	8.21	10.80	0108	2.95	2357	6.47
279	15.48	4.79	10.32	0909	2.07		2.95
280	14.69	3.96	10.59	1540	-0.20	2341	1.93
281	14.58	8.87	19.40	1328	-1.15	0457	6.45
282	14.29	8.86	13.68	1018	2.48		7.48
283	13.65	2.77	8.38	1624	-2.39	2359	-0.05
284	13.29	3.21	11.36	1512	-4.47	0626	1.68
285	13.15	6.24	16.11	1526	-1.87	0447	4.85
286	12.94	8.79	12.44	1340	3.61	0345	8.42
287	13.03	12.46	15.21	2127	9.48	2359	12.18
288	12.67	8.23	12.02	1405	2.72	2351	5.66
289	12.37	5.74	9.41	1300	0.28	0554	4.58
290	12.18	7.05	10.11	1241	4.03	2355	4.59
291	11.99	4.07	9.16	1550	-1.63	2256	2.30
292	11.69	7.15	16.08	1409	-2.51	0344	3.18
293	11.61	8.40	15.93	1534	4.09	0552	5.76
294	11.65	9.02	13.99	1209	4.62	0605	7.89
295	11.69	10.10	18.60	1459	3.19	0625	7.79
296	11.63	9.94	19.05	1101	4.86	0237	7.78

Table 2. *--Summary of 1986 temperature data at the raft station--Continued*

JULIAN DAY	DAILY AVERAGE LAKE-SURFACE WATER TEMPERATURE (C)	DAILY AVERAGE DRY-BULB AIR TEMPERATURE (C)	DAILY MAXIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MAXIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY MINIMUM DRY-BULB AIR TEMPERATURE (C)	TIME OF MINIMUM DRY-BULB AIR TEMPERATURE (h)	DAILY AVERAGE WET-BULB AIR TEMPERATURE (C)
297	11.28	5.01	7.91	1421	0.58	2301	2.20
298	10.98	5.31	13.33	1500	-1.32	0636	2.59
299	10.70	5.66	11.27	1235	0.28	0048	3.95
300	10.57	6.92	8.57	1216	4.80	0120	6.82
301	10.62	9.78	14.06	1054	5.81	2358	8.61
302	10.85	9.08	19.25	1511	1.18	0614	7.62
303	10.11	6.11					4.09
304	10.13	1.49	7.50	1532	-2.86	2358	-0.26
305	9.99	3.87	13.11	1329	-4.76	0537	2.77
306	9.62	4.58	10.26	0544	-1.08		3.20
307	9.31	1.18	7.63	1349	-4.05	0634	-0.09
308	8.95	1.63	5.97	1258	-2.80	2341	0.50
309	8.28	-2.11	0.67	1516	-4.59	0708	
310	7.84	0.82	3.70	1357	-2.56	0155	
311	7.75	1.96	10.37	1355	-1.91	0726	
312	7.50	2.51	4.17	2342	0.95	0018	
313	7.48	5.66	11.51	1749	2.91	0136	
314	7.15	2.42	7.44	0004	-2.21	2351	
315	6.77	-1.06	0.13	1500	-2.62	0432	
316	6.62	0.51					
317	6.29	-3.63	1.98	0927	-9.72	2339	
318	5.42	-5.32	-0.17	1529	-10.37	0347	
319	5.22	-0.52	5.14	1421	-3.98	0141	
320	5.34	2.48	11.33	1354	-0.41	0650	
321	5.22	2.87	8.11	1214	-1.09	2207	
322	5.08	1.97	4.89	1055	-1.38	1952	
323	4.77	-3.98	-0.17	0009	-7.75	2200	
324	4.05	-6.46	-2.55	2336	-11.57	0656	
325	3.67	-0.30	4.08	0914	-4.12	1824	

Table 3. --*Summary of 1986 wind-speed data at the raft station*
[m, meters; mi/h, miles per hour; h, hour; blank, no data;]

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
1	107	2.29	17.35	1344	0.60	1957
1	108	2.54	17.86	1406	0.60	2017
1	109	2.45	12.85	1421	0.60	0730
1	110	2.75	15.54	1354	0.60	2359
1	111	1.76	12.96	1528	0.60	0719
1	112	6.95	26.89	2312	0.60	1845
1	113	8.34	30.62	1602	0.60	2232
1	114	7.04	28.67	0817	0.60	2232
1	115	3.23	16.81	1507	0.60	2359
1	116	1.56	9.68	1401	0.60	1821
1	117	2.16	13.42	1552	0.60	1728
1	118	2.43	12.06	1504	0.60	2250
1	119	2.63	13.05	1535	0.60	0749
1	120	2.17	24.25	1506	0.60	0645
1	121	3.81	27.40	2014	0.60	2302
1	122	6.18	25.78	1341	0.60	0120
1	123	7.52	27.08	0427	0.60	2400
1	124	5.41	31.87	0628	0.60	2150
1	125	1.85	11.92	2102	0.60	1603
1	126	1.71	10.81	1131	0.60	2356
1	127	1.37	5.75	0918	0.60	1430
1	128	1.20	7.73	1153	0.60	2122
1	129	2.27	15.23	1447	0.60	2352
1	130	2.78	15.91	1404	0.60	0626
1	131	2.41	12.45	1421	0.60	2310
1	132	3.19	17.46	1050	0.60	0452
1	133	2.34	12.08	1456	0.60	2213
1	134	2.90	14.09	1709	0.60	2218
1	135	2.90	16.30	1324	0.60	2142
1	136	1.14	9.85	1128	0.60	1027
1	137	0.97	9.23	1223	0.60	2323
1	138	2.73	14.38	1206	0.60	0617
1	139	2.15	17.07	1425	0.60	1828
1	140	1.93	12.00	1247	0.60	1907
1	141	1.93	13.44	1159	0.60	1703
1	142	2.67	13.25	1522	0.60	0332
1	143	2.64	14.69	1207	0.60	1902
1	144	3.01	19.33	1147	0.60	2357
1	145	3.08	16.90	0757	0.60	2057
1	146	2.57	13.73	1423	0.60	0551
1	147	2.42	16.87	1207	0.60	0725
1	148	4.95	25.30	1116	0.60	2400
1	149	2.10	16.70	1132	0.60	0857
1	150	3.38	16.73	0733	0.60	2208
1	151	3.76	19.24	1322	0.60	2326
1	152	3.08	19.61	2324	0.60	2321
1	153	6.99	24.28	0122	0.60	2159

Table 3. *--Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
1	154	6.10	22.22	0108	0.60	2400
1	155	2.61	19.02	1513	0.60	2244
1	156	2.10	13.44	1732	0.60	2022
1	157	0.86	6.40	0807	0.60	1834
1	158	1.05	7.36	1047	0.60	1745
1	159	1.66	17.66	2140	0.60	2324
1	160	9.36	30.00	1328	0.60	1803
1	161	3.22	24.82	0102	0.60	0845
1	162	1.11	5.84	0138	0.60	2115
1	163	1.89	9.68	1214	0.60	0816
1	164	1.12	6.43	1527	0.60	1742
1	165	2.00	14.26	1400	0.60	2400
1	166	2.37	20.58	1320	0.60	0657
1	167	2.28	22.19	2119	0.60	2353
1	168					
1	169					
1	170	3.54	22.49	1158	0.68	0247
1	171	2.39	14.80	1816	0.68	0419
1	172	1.65	11.66	1046	0.60	1134
1	173	1.31	9.90	1348	0.68	0423
1	174	1.84	16.41	1624	0.68	0359
1	175	3.48	26.73	2359	0.68	0450
1	176	5.26	32.32	0617	0.60	1927
1	177	2.59	20.60	1329	0.68	0312
1	178	1.00	6.03	1006	0.68	0309
1	179	1.85	15.84	1412	0.68	0004
1	180	3.55	29.44	1641	0.68	2347
1	181	4.46	27.25	1018	0.68	0147
1	182	2.18				
1	183	1.72	12.78	1303	0.68	0808
1	184	3.22	29.58	1600	0.62	0831
1	185	1.23	10.22	1445	0.68	0530
1	186	1.07	5.06	2332	0.68	0152
1	187	1.12	7.58	0954	0.68	0030
1	188	3.24	23.97	1314	0.68	0049
1	189	3.33	18.70	0936	0.68	0539
1	190	3.94	21.05	1417	0.68	0244
1	191	6.87	23.09	1000	0.68	2343
1	192	5.30	26.53	0023	0.68	0153
1	193	1.22	6.89	1158	0.68	0556
1	194	1.26	6.80	1016	0.68	0141
1	195	1.32	11.54	2138	0.68	0139
1	196	5.85	23.82	0730	0.68	2310
1	197	1.33	8.76	1449	0.68	0350
1	198	1.21	7.72	1316	0.68	0530
1	199	2.09	14.88	1252	0.68	0440
1	200	2.36	15.15	1344	0.60	1343
1	201	1.18	7.31	1343	0.68	0625

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
1	202	4.40	22.33	0854	0.68	2315
1	203	1.67	9.76	1531	0.68	0355
1	204	2.25	13.99	0837	0.68	0530
1	205	1.81	12.42	1323	0.62	1423
1	206	1.29	13.32	1458	0.68	0559
1	207	1.29	18.05	1648	0.68	0648
1	208	1.09	12.77	1346	0.68	0203
1	209	1.58	11.06	1216	0.66	1313
1	210	1.52				
1	211	1.74				
1	212	1.07	9.09	1325	0.68	0137
1	213	0.92	7.03	1443	0.68	0032
1	214	1.21	9.72	1759	0.66	0822
1	215	1.31	11.56	1419	0.62	1152
1	216	2.27				
1	217	2.10	14.18	1024	0.68	0631
1	218	1.43	8.07	2037		
1	219	1.15	7.61	1936	0.68	0432
1	220	1.47	9.94	1451	0.68	0512
1	221	1.62	11.06	1348	0.68	0343
1	222	1.58	15.16	0616	0.68	0221
1	223	3.05	16.89	1155	0.68	2331
1	224	2.61	18.49	0958	0.68	0558
1	225	1.52	9.42	1104	0.68	1351
1	226	1.27	13.99	1452	0.68	0513
1	227	1.06	5.81	1246	0.68	0449
1	228	0.91	5.63	1538	0.68	0541
1	229	1.52	8.91	1336	0.66	0700
1	230	1.22	9.76	1237	0.60	0704
1	231	2.62	14.63	1552	0.68	0557
1	232	1.80				
1	233	1.87	11.54	1155	0.68	0318
1	234	4.31	21.92	1604	0.68	2250
1	235	1.53	11.56	1023	0.68	0528
1	236	5.63	20.03	1243	0.68	0029
1	237	6.24	22.04	0028	0.68	1225
1	238	1.73	13.84	1140	0.68	0517
1	239	3.40	27.28	2322	0.68	0030
1	240	4.58	20.02	0009	0.68	2222
1	241	3.44	17.51	1214	0.68	0539
1	242	2.54	16.09	1032	0.68	0328
1	243	2.79	15.42	1051	0.68	0614
1	244	1.30	5.75	1502	0.68	0609
1	245	1.13				
1	246	2.01				
1	247	1.54	8.37	1015	0.68	0556
1	248	0.90	5.68	2350	0.68	0141
1	249	2.33	15.56	1303	0.68	0153

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
1	250	2.13	9.44	1243	0.68	0401
1	251	2.61	15.07	1019	0.68	0659
1	252	2.10	12.69	1134	0.68	0549
1	253	1.30	10.03	1236	0.68	0401
1	254	0.79	5.83	1346	0.68	0637
1	255	2.09	17.57	1531	0.68	0634
1	256	4.38	24.60	2138	0.68	0643
1	257	5.24	22.52	0843	0.68	0617
1	258	2.91	15.98	1012	0.68	0147
1	259	6.36	22.11	0900	0.68	0627
1	260	4.99	20.83	0808	0.68	2354
1	261	1.48	10.13	1431	0.68	0723
1	262	2.01	15.13	1251	0.68	0512
1	263	0.79	4.16	0953	0.68	0509
1	264	1.14	6.45	1610	0.68	2346
1	265	1.29	7.63	1102	0.68	0643
1	266	0.97	5.39	0524	0.68	0846
1	267	1.65	13.93	1253	0.68	0634
1	268	3.80	24.16	1246	0.68	0310
1	269	2.27	16.74	2157	0.68	0239
1	270	2.25	12.07	0357	0.66	1302
1	271	1.11	7.25	1454	0.68	0900
1	272	0.92	5.89	1353	0.68	0322
1	273	2.36	23.57	1352	0.68	0202
1	274	4.03	20.29	1114	0.68	2314
1	275	1.25				
1	276	1.44	8.70	1203	0.68	0714
1	277	3.02	16.18	0942	0.68	0134
1	278	4.08	19.28	1222	0.68	2345
1	279	6.41	30.68	1126	0.68	0602
1	280	3.72	18.67	0001	0.68	1910
1	281	1.56	12.56	1349	0.68	0902
1	282	3.94	21.06	1837	0.68	1754
1	283	3.91	19.01	0105	0.68	2345
1	284	1.83	12.38	1311	0.68	2005
1	285	1.25	9.84	1246	0.68	0144
1	286	0.75	3.55	0435	0.68	0401
1	287	1.27	18.18	2230	0.68	0042
1	288	3.42	20.52	1123	0.68	0720
1	289	1.34	7.09	2028	0.60	1204
1	290	1.60	9.52	0509	0.68	2347
1	291	2.87	17.01	1041	0.68	2300
1	292	3.36	17.90	1417	0.68	2347
1	293	1.45	13.84	0039	0.60	1427
1	294	1.49	9.61	2030	0.60	1103
1	295	1.83	13.06	1252	0.68	0700
1	296	4.07	26.92	1813	0.68	0428
1	297	5.66	29.81	1845	0.68	2154

Table 3. *--Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
1	298	2.58	15.77	1137	0.68	0404
1	299	1.14	5.45	2238	0.68	0342
1	300	0.85	5.07	0002	0.68	0218
1	301	2.94	20.90	1827	0.68	0005
1	302	1.26	12.14	1307	0.68	0734
1	303	5.11				
1	304	2.13	11.94	0204	0.68	2154
1	305	0.88	7.23	1248	0.66	1748
1	306	3.66	23.50	0615	0.68	0110
1	307	1.04	8.15	1447	0.68	1421
1	308	3.34	23.87	1522	0.68	1239
1	309	2.24	14.82	0213	0.68	1817
1	310	0.79	3.42	0155	0.68	0557
1	311	1.24	8.04	1123	0.62	1047
1	312	0.86	3.86	2340	0.68	0212
1	313	2.10	21.90	2257	0.68	0204
1	314	5.21	21.24	1338	0.70	0321
1	315	0.88	3.98	0223	0.68	1328
1	316	1.10				
1	317	5.77	22.50	1349	0.70	0001
1	318	4.03	18.68	0631	0.70	0213
1	319	1.21	7.53	1153	0.68	0759
1	320	0.99	6.40	1737	0.68	0613
1	321	1.99	15.02	0937	0.68	0558
1	322	3.46	18.26	0549	0.68	0207
1	323	5.51	32.80	1116	0.68	0509
1	324	1.32	9.18	0004	0.62	2354
1	325	7.68	34.15	2013	0.68	0015

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
2	107	2.37	16.36	1344	0.60	2123
2	108	2.60	16.64	1406	0.60	2206
2	109	2.39	13.30	1421	0.60	2144
2	110	2.59	15.20	1354	0.60	2233
2	111	1.53	12.37	1528	0.60	0719
2	112	6.71	26.66	2312	0.60	0236
2	113	8.20	30.85	1602	0.60	2220
2	114	6.85	27.74	0817	0.60	0724
2	115	3.08	15.40	1507	0.60	2210
2	116	1.46	9.34	1239	0.60	0515
2	117	2.08	12.74	1552	0.60	2137
2	118	2.37	11.04	1452	0.60	2250
2	119	2.58	12.48	1535	0.60	2315
2	120	2.15	22.39	1506	0.60	0645
2	121	3.79	27.79	2014	0.60	2302
2	122	6.14	24.17	1341	0.60	0120
2	123	7.57	28.87	1412	0.60	2400
2	124	5.39	31.64	0628	0.60	2150
2	125	1.80	11.83	2102	0.60	1605
2	126	1.78	9.06	1131	0.60	2140
2	127	1.63	5.24	1412	0.60	1807
2	128	1.55	7.62	1155	0.60	2206
2	129	2.44	15.03	1447	0.60	2352
2	130	2.74	16.10	1355	0.60	0627
2	131	2.36	11.80	1002	0.60	2310
2	132	3.32	18.11	0913	0.60	2157
2	133	2.25	12.03	1008	0.60	2213
2	134	2.80	13.61	1709	0.60	2218
2	135	2.77	17.77	1324	0.60	2142
2	136	1.08	9.71	1128	0.60	2003
2	137	0.84	8.38	1223	0.60	2323
2	138	2.54	14.91	1206	0.60	2119
2	139	2.06	16.84	1421	0.60	2113
2	140	2.01	11.83	1247	0.60	1207
2	141	2.06	12.31	1159	0.60	1703
2	142	2.76	17.18	1522	0.60	0709
2	143	2.67	14.91	1207	0.60	1902
2	144	3.05	19.81	1147	0.60	2357
2	145	3.17	16.50	0757	0.60	2400
2	146	2.64	13.58	1423	0.60	2044
2	147	2.47	18.48	1207	0.60	1953
2	148	4.73	24.11	1230	0.60	2109
2	149	1.95	16.67	1132	0.60	1751
2	150	3.45	18.20	1305	0.60	2208
2	151	3.73	18.31	1158	0.60	2326
2	152	3.11	20.21	1309	0.60	2321
2	153	6.98	26.49	0122	0.60	1321
2	154	5.83	21.96	0108	0.60	2400

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
2	155	2.56	18.62	1230	0.60	2244
2	156	2.19	13.08	1725	0.60	2022
2	157	0.91	5.69	0807	0.60	1833
2	158	1.12	7.08	1047	0.60	1758
2	159	1.76	16.78	2345	0.60	1333
2	160	9.21	33.17	0620	0.60	1839
2	161	2.93	30.65	0102	0.60	2333
2	162	1.11	5.49	0138	0.60	2115
2	163	1.95	9.37	1214	0.60	0816
2	164	1.12	5.98	1527	0.60	1748
2	165	2.12	15.20	1400	0.60	1155
2	166	2.53	21.96	1320	0.60	0658
2	167	2.42	24.34	2119	0.60	0043
2	168					
2	169					
2	170	3.87	21.90	1158	0.66	2123
2	171	3.05	15.29	2018	0.66	2319
2	172	2.75	15.63	1300	0.66	2231
2	173	2.12	12.08	1510	0.66	0936
2	174	2.13	17.31	1624	0.66	0421
2	175	4.82	28.68	2359	0.68	0450
2	176	5.74	30.39	0617	0.68	2324
2	177	2.98	22.25	1329	0.66	2216
2	178	1.19	6.09	1006	0.66	1053
2	179	2.16	17.05	1412	0.66	0022
2	180	3.96	36.20	1641	0.66	0037
2	181	5.05	25.31	1018	0.66	1804
2	182	2.74				
2	183	2.03	14.42	1303	0.66	0256
2	184	3.77	28.51	1600	0.66	0601
2	185	2.00	9.84	1320	0.66	2104
2	186	1.39	8.57	0837	0.66	0231
2	187	1.96	8.95	1641	0.66	0639
2	188	3.66	27.79	1314	0.66	0117
2	189	3.68	20.31	0936	0.66	0516
2	190	4.26	21.70	1417	0.68	0244
2	191	7.51	27.96	1000	0.68	2343
2	192	5.83	26.03	0023	0.66	0153
2	193	1.56	6.53	1158	0.66	0835
2	194	1.58	7.16	1439	0.66	1312
2	195	1.61	14.08	2222	0.68	0444
2	196	6.53	23.04	0730	0.66	2324
2	197	1.88	10.10	1540	0.66	0418
2	198	1.63	9.03	1318	0.68	0530
2	199	2.46	16.15	1252	0.66	0324
2	200	3.34	14.81	1239	0.66	0446
2	201	1.75	7.77	1128	0.66	0315
2	202	4.72	22.19	1203	0.68	2307

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
2	203	2.39	11.03	1336	0.66	0725
2	204	2.70	14.31	1151	0.66	0015
2	205	2.70	14.58	1157	0.66	0733
2	206	1.65	13.68	1554	0.68	0520
2	207	1.98	19.58	1648	0.68	0541
2	208	1.76	11.39	1119	0.68	0037
2	209	2.56	12.63	1402	0.68	0244
2	210	1.98				
2	211	2.17				
2	212	2.10	10.67	1253	0.66	0308
2	213	1.52	8.88	1440	0.68	0017
2	214	2.33	10.29	1814	0.68	0326
2	215	2.51	14.01	1459	0.68	0117
2	216	2.34				
2	217	2.09	13.74	1024	0.66	0452
2	218	2.08	12.92	1231		
2	219	1.26	7.86	1937	0.66	0820
2	220	2.10	15.82	1447	0.66	0611
2	221	1.91	13.09	1348	0.66	1827
2	222	2.31	14.20	0616	0.66	0301
2	223	3.54	17.16	1345	0.68	2331
2	224	3.16	17.57	0958	0.66	2202
2	225	2.84	12.95	1407	0.68	0540
2	226	1.34	13.80	1452	0.66	2343
2	227	1.14	8.03	1305	0.66	0536
2	228	1.10	6.59	1538	0.66	0541
2	229	2.18	11.48	1209	0.66	0525
2	230	1.76	10.62	1222	0.66	0418
2	231	2.55	14.86	1552	0.66	0446
2	232	1.91				
2	233	2.19	15.15	1521	0.66	0618
2	234	4.25	24.30	1604	0.66	2252
2	235	1.53	11.20	1023	0.66	0246
2	236	5.84	25.93	2144	0.68	2311
2	237	6.84	25.01	0019	0.68	0943
2	238	2.11	14.34	1140	0.66	2035
2	239	3.87	29.80	2322	0.66	0050
2	240	4.91	25.00	0009	0.68	2222
2	241	3.54	19.32	1214	0.68	0539
2	242	2.67	17.16	1032	0.68	0328
2	243	2.85	17.42	1051	0.66	2305
2	244	1.27	7.29	1250	0.66	1351
2	245	1.14				
2	246	2.09				
2	247	1.70	7.93	1204	0.66	0315
2	248	0.89	5.53	1209	0.66	0434
2	249	2.45	15.34	1303	0.66	0236
2	250	2.29	10.13	1423	0.66	0401

Table 3. *--Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
2	251	2.46	15.55	1019	0.68	0619
2	252	2.01	13.42	1134	0.68	0549
2	253	1.39	11.27	1154	0.68	0401
2	254	0.79	5.16	1346	0.68	0559
2	255	2.46	19.36	1531	0.68	0634
2	256	4.63	25.66	2138	0.68	0605
2	257	5.55	26.79	1023	0.68	2212
2	258	2.65	17.89	1339	0.68	0113
2	259	6.89	24.30	0900	0.68	0627
2	260	5.28	23.70	0808	0.68	2346
2	261	1.83	11.65	1207	0.68	0309
2	262	2.15	17.22	1304	0.68	0512
2	263	0.92	4.97	0613	0.68	0459
2	264	1.45	6.23	1610	0.68	2346
2	265	1.69	11.47	1035	0.68	0643
2	266	1.14	6.33	1826	0.68	0833
2	267	2.00	15.68	1253	0.68	0634
2	268	2.32	26.64	0918	0.68	0310
2	269	2.71	18.14	2124	0.68	0146
2	270	2.61	13.55	0357	0.68	0643
2	271	1.22	8.45	1331	0.68	0900
2	272	1.09	7.92	1258	0.68	0255
2	273	2.48	25.64	1352	0.68	0202
2	274	4.43	21.49	1003	0.68	2246
2	275	1.69				
2	276	1.86	17.22	1204	0.68	0627
2	277	3.25	18.58	0942	0.68	0015
2	278	4.51	23.31	1123	0.68	2358
2	279	7.28	34.34	2105	0.62	1534
2	280	3.92	20.66	0001	0.68	1910
2	281	2.09	15.87	1310	0.68	0838
2	282	4.28	22.15	1551	0.68	2057
2	283	4.24	19.30	0105	0.68	2345
2	284	2.65	15.06	1328	0.68	2256
2	285	1.86	10.59	1308	0.68	0040
2	286	0.81	3.34	0435	0.68	0401
2	287	1.34	20.69	2230	0.68	0029
2	288	3.69	22.14	1406	0.68	2347
2	289	1.60	7.36	1214	0.68	0916
2	290	2.44	10.06	0529	0.68	2305
2	291	3.13	16.87	1429	0.68	2300
2	292	3.94	19.36	1417	0.68	1953
2	293	2.00	14.77	0039	0.68	0605
2	294	1.72	9.82	2030	0.68	0152
2	295	2.35	13.20	1252	0.68	0653
2	296	4.53	34.83	1813	0.68	0357
2	297	6.03	29.18	1845	0.68	2154
2	298	2.80	15.09	1041	0.68	0404

Table 3. *--Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
2	299	1.39	6.47	1550	0.68	0346
2	300	0.84	4.51	0002	0.68	0218
2	301	3.31	20.26	1550	0.68	0005
2	302	1.80	13.47	1322	0.68	0730
2	303	5.53				
2	304	2.83	13.30	0043	0.68	2154
2	305	1.26	7.61	1226	0.66	1748
2	306	4.05	25.17	0615	0.68	1849
2	307	1.49	11.68	1438	0.68	1421
2	308	3.82	25.13	1307	0.70	0001
2	309	3.07	14.78	0213	0.70	0006
2	310	0.95	4.59	2229	0.68	0557
2	311	1.57	8.87	1135	0.68	0646
2	312	0.88	3.61	2340	0.68	0212
2	313	2.26	25.04	2257	0.68	0146
2	314	5.56	23.63	0216	0.68	1159
2	315	0.92	4.52	0045	0.68	1328
2	316	1.18				
2	317	6.30	25.12	1629	0.70	0001
2	318	4.25	20.37	0640	0.70	0057
2	319	1.74	8.34	0850	0.68	0759
2	320	1.04	6.76	1737	0.68	0849
2	321	2.19	15.95	0937	0.68	0558
2	322	3.77	20.39	1022	0.68	0207
2	323	6.05	36.06	1116	0.68	0509
2	324	1.44	11.18	0004	0.68	2253
2	325	8.76	40.21	2225	0.68	0015

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
3	107	2.60	14.97	1507	0.60	1957
3	108	2.98	16.73	1406	0.60	2016
3	109	2.92	13.02	1421	0.60	1720
3	110	3.23	16.13	1354	0.60	1857
3	111	2.32	12.42	1528	0.60	0801
3	112	7.57	28.13	2312	0.60	1558
3	113	9.02	33.03	1602	0.60	0437
3	114	7.62	29.07	0817	0.60	2341
3	115	3.74	16.81	1507	0.60	1928
3	116	2.02	10.59	0115	0.60	2123
3	117	2.73	13.27	1552	0.60	2137
3	118	2.94	11.94	1616	0.60	2250
3	119	3.09	12.91	1348	0.60	2315
3	120	2.63	21.08	1506	0.60	0645
3	121	4.41	30.17	2014	0.60	2302
3	122	6.87	26.43	1341	0.60	0120
3	123	8.32	30.42	1612	0.60	2346
3	124	6.06	33.54	0628	0.60	1026
3	125	2.56	12.65	2057	0.60	2400
3	126	2.50	9.25	0828	0.60	2057
3	127	2.37	5.92	1412	0.60	1438
3	128	2.08	8.18	1153	0.60	2206
3	129	2.99	15.48	1447	0.60	0800
3	130	3.39	16.78	1355	0.60	2400
3	131	3.04	12.96	1002	0.60	2400
3	132	3.86	17.60	0913	0.60	2157
3	133	2.92	13.75	1252	0.60	1012
3	134	3.48	14.77	1709	0.60	0637
3	135	3.56	17.89	1324	0.60	0739
3	136	1.55	10.13	1133	0.60	1028
3	137	1.23	8.58	1223	0.60	2323
3	138	3.12	16.16	1206	0.60	2119
3	139	2.50	15.76	1425	0.60	2113
3	140	2.33	11.89	1247	0.60	1908
3	141	2.40	12.74	1159	0.60	2400
3	142	3.00	16.25	1522	0.60	0704
3	143	2.98	14.63	1207	0.60	0726
3	144	3.45	18.79	1147	0.60	2349
3	145	3.58	17.49	0757	0.60	2400
3	146	3.06	13.67	1423	0.60	2044
3	147	2.81	20.55	1207	0.60	0846
3	148	5.29	26.63	1523	0.60	2109
3	149	2.48	16.50	1132	0.60	1748
3	150	3.81	17.49	1305	0.60	2208
3	151	4.11	17.94	0718	0.60	2326
3	152	3.61	20.15	2126	0.60	2111
3	153	7.59	26.66	0122	0.60	1858
3	154	6.72	26.18	0055	0.60	2400

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
3	155	3.16	19.92	1217	0.60	0511
3	156	2.65	13.75	1732	0.60	1618
3	157	1.30	6.26	0638	0.60	1613
3	158	1.52	7.82	1410	0.60	1758
3	159	2.18	17.52	2345	0.60	2023
3	160	10.10	34.19	0620	0.60	1643
3	161	3.89	32.57	0102	0.60	2332
3	162	1.55	6.29	0212	0.60	2115
3	163	2.59	9.23	1950	0.60	0816
3	164	1.68	6.68	1527	0.60	1748
3	165	2.59	15.14	1400	0.60	2400
3	166	2.94	21.03	1320	0.60	2150
3	167	2.82	26.97	2119	0.60	0043
3	168					
3	169					
3	170	4.48	22.31	1527	0.62	2334
3	171	3.71	16.44	1816	0.66	1802
3	172	3.30	15.30	1300	0.60	0338
3	173	2.56	12.54	1510	0.60	2130
3	174	2.59	17.78	1457	0.60	0434
3	175	5.36	32.78	2359	0.60	1813
3	176	6.43	29.77	0002	0.60	2220
3	177	3.62	21.04	1329	0.60	0406
3	178	1.79	7.16	1006	0.60	1820
3	179	2.66	16.74	1412	0.60	0158
3	180	4.62	36.05	1641	0.62	0235
3	181	5.57	27.31	1018	0.60	2315
3	182	3.15				
3	183	2.61	14.36	1303	0.60	0246
3	184	4.51	29.85	1600	0.60	0836
3	185	2.62	9.63	1718	0.60	2228
3	186	1.86	8.45	0837	0.60	1519
3	187	2.36	9.25	1641	0.66	0315
3	188	4.14	28.88	1143	0.66	0351
3	189	4.20	20.04	0936	0.60	2333
3	190	4.82	22.60	1417	0.66	0317
3	191	8.17	26.59	1337	0.60	0234
3	192	6.37	24.95	0023	0.68	0313
3	193	1.99	7.14	1158	0.60	1722
3	194	2.01	6.59	1439	0.60	0619
3	195	2.08	13.04	2138	0.60	1130
3	196	7.10	24.41	0621	0.60	1934
3	197	2.19	9.76	1540	0.60	0338
3	198	2.05	9.84	1318	0.60	1951
3	199	2.91	16.07	1252	0.66	0706
3	200	3.82	15.33	1304	0.66	0509
3	201	2.22	7.71	0503	0.66	1015
3	202	5.32	23.50	1203	0.60	0340

Table 3. *--Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
3	203	2.74	11.10	1420	0.60	0313
3	204	3.07	14.45	1151	0.64	1717
3	205	2.98	15.38	1157	0.60	0342
3	206	1.86	13.24	1554	0.60	1728
3	207	2.33	21.40	1648	0.60	2059
3	208	2.12	11.39	1349	0.68	0036
3	209	2.94	13.09	1402	0.60	0433
3	210	2.40				
3	211	2.56				
3	212	2.12	10.76	1330	0.60	1729
3	213	1.66	8.99	2124	0.60	1255
3	214	2.53	10.31	1759	0.60	0227
3	215	2.73	13.76	1459	0.60	0326
3	216	3.15				
3	217	3.06	13.71	1207	0.60	0455
3	218	2.80	13.51			
3	219	1.80	8.13	1937	0.60	2047
3	220	2.64	17.70	1447	0.60	2212
3	221	2.47	14.97	1348	0.60	2253
3	222	2.83	14.90	0616	0.60	0346
3	223	4.04	17.30	1154	0.60	0718
3	224	3.60	17.57	0958	0.60	0313
3	225	3.30	12.20	1304	0.66	2107
3	226	2.23	14.36	1452	0.60	2355
3	227	1.76	7.84	1305	0.60	1200
3	228	1.49	7.36	1538	0.60	0307
3	229	2.84	12.17	1155	0.66	0700
3	230	2.27	10.52	1222	0.64	1436
3	231	3.50	15.72	1552	0.60	2015
3	232	2.76				
3	233	3.12	15.16	1521	0.60	0034
3	234	5.47	23.97	1604	0.60	0402
3	235	2.47	12.75	1023	0.60	1709
3	236	6.87	25.20	2144	0.60	0423
3	237	7.48	25.10	0247	0.60	0943
3	238	2.69	15.26	1140	0.60	0108
3	239	4.43	28.07	2322	0.60	0427
3	240	5.74	26.40	0019	0.60	2331
3	241	4.40	19.91	0137	0.60	0547
3	242	3.45	16.82	1029	0.60	0524
3	243	3.73	17.23	1032	0.60	2320
3	244	2.14	8.11	1250	0.60	0625
3	245	1.97				
3	246	2.88				
3	247	2.62	8.70	1204	0.60	0201
3	248	1.43	6.56	1209	0.60	1515
3	249	3.28	14.73	1303	0.60	0521
3	250	2.93	11.11	1423	0.60	0104

Table 3. --*Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
3	251	3.32	15.24	1019	0.60	2059
3	252	2.78	14.92	1134	0.60	0519
3	253	2.13	11.00	1154	0.60	0322
3	254	1.15	5.31	1346	0.60	0215
3	255	3.08	20.80	1531	0.60	0634
3	256	5.46	26.64	2138	0.68	0628
3	257	6.43	26.08	1023	0.60	1947
3	258	3.79	18.95	1430	0.60	0653
3	259	7.64	27.86	0956	0.60	2108
3	260	6.11	23.83	0813	0.60	1906
3	261	2.58	11.67	1207	0.60	0625
3	262	2.80	20.90	1301	0.60	1856
3	263	1.37	5.39	0613	0.60	0019
3	264	2.06	6.81	1610	0.60	0557
3	265	2.11	12.36	1035	0.60	1024
3	266	1.53	7.76	1826	0.60	2116
3	267	2.56	15.35	1253	0.60	0145
3	268	4.78	27.75	0918	0.60	0138
3	269	3.09	20.66	2124	0.60	0312
3	270	3.26	11.62	0357	0.60	0804
3	271	1.66	8.54	1338	0.60	0208
3	272	1.43	7.65	1258	0.60	0958
3	273	3.06	27.62	1352	0.68	0202
3	274	5.10	23.62	1003	0.62	0319
3	275	2.08				
3	276	2.46	17.97	1204	0.60	1503
3	277	3.90	19.20	0942	0.60	0136
3	278	5.09	21.42	1123	0.60	2317
3	279	7.94	37.10	2105	0.60	0604
3	280	4.40	21.00	0001	0.60	2146
3	281	2.49	16.12	1312	0.60	0215
3	282	4.69	21.13	1551	0.60	1008
3	283	4.65	21.56	0105	0.60	1854
3	284	2.96	14.37	1328	0.60	2235
3	285	2.17	10.32	1123	0.60	2331
3	286	0.91	3.68	0129	0.60	0712
3	287	1.51	20.73	2251	0.60	0632
3	288	3.95	23.22	1406	0.60	0715
3	289	1.83	7.63	1228	0.60	0711
3	290	2.70	11.00	0529	0.60	0155
3	291	3.38	17.93	1429	0.60	2138
3	292	4.31	19.83	1515	0.60	1021
3	293	2.25	16.34	0039	0.60	0239
3	294	2.02	11.38	2030	0.60	1300
3	295	2.74	14.65	0052	0.60	0623
3	296	5.09	34.59	1813	0.60	0225
3	297	6.79	30.33	1845	0.60	0121
3	298	3.39	15.46	0058	0.60	0452

Table 3. *--Summary of 1986 wind-speed data at the raft station--Continued*

HEIGHT OF ANEMOMETER ABOVE LAKE SURFACE (m)	JULIAN DAY	DAILY AVERAGE WIND SPEED (mi/h)	DAILY MAXIMUM WIND SPEED (mi/h)	TIME OF MAXIMUM WIND SPEED (h)	DAILY MINIMUM WIND SPEED (mi/h)	TIME OF MINIMUM WIND SPEED (h)
3	299	1.89	7.03	1550	0.60	0535
3	300	1.04	4.47	0123	0.60	0351
3	301	3.76	22.70	1550	0.66	1953
3	302	2.21	13.79	1325	0.60	0517
3	303	6.13				
3	304	3.38	14.11	0043	0.60	0621
3	305	1.63	7.66	1035	0.60	2355
3	306	4.44	24.85	0615	0.60	1829
3	307	1.76	11.96	1438	0.60	1714
3	308	4.09	24.65	1307	0.60	0519
3	309	3.55	17.10	0213	0.60	2325
3	310	1.14	4.86	2229	0.60	1807
3	311	2.05	8.91	1135	0.60	0215
3	312	1.20	4.09	2332	0.60	2014
3	313	2.61	25.23	2257	0.60	0523
3	314	6.11	23.86	0048	0.60	1751
3	315	1.40	4.69	0223	0.60	2225
3	316	1.42				
3	317	6.98	26.65	1425	0.60	0245
3	318	5.03	22.64	0640	0.60	1447
3	319	2.12	8.51	0927	0.60	2058
3	320	1.38	6.23	1801	0.60	1707
3	321	2.44	14.73	0937	0.60	1949
3	322	4.14	20.67	0549	0.60	0048
3	323	6.45	36.72	1116	0.60	0122
3	324	1.82	12.34	0004	0.60	2253
3	325	9.33	43.76	2225	0.60	0137

Table 4. --*Summary of 1986 radiation data at the land station*
[(cal/cm²)/d , calories per centimeter square per day;
(cal/cm²)/min , calories per centimeter square per minute; h , hour; blank , no data]

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
107	601.7	1.34	1221	546.2	0.45	1338	0.32	0256
108	599.0	1.31	1152	532.1	0.44	1241	0.32	2400
109	617.0	1.34	1154	501.9	0.41	1256	0.30	0501
110	565.8	1.41	1157	582.2	0.49	1934	0.31	0454
111	44.6	0.28	1104	678.9	0.48	2239	0.44	2329
112	593.5	1.35	1418	581.2	0.48	0114	0.34	2400
113	211.9	1.24	0942	620.2	0.47	1356	0.34	0004
114	550.7	1.90	1200	576.8	0.54	1200	0.32	0534
115	568.9	1.67	1229	684.3	0.56	1310	0.41	0809
116	336.8	1.75	1217	735.0	0.57	1220	0.46	2030
117	565.2	1.49	1014	676.8	0.53	1344	0.40	2400
118	620.4	1.55	1306	649.6	0.56	1303	0.39	0210
119	572.8	1.36	1228	672.6	0.54	1224	0.40	0246
120	302.6	1.53	1234	686.9	0.55	1145	0.37	2358
121	398.3	1.48	1405	665.6	0.56	1354	0.36	0201
122	372.1	2.02	1023	597.0	0.49	1024	0.31	2006
123	488.0	1.56	1345	506.8	0.42	1906	0.28	2115
124	530.1	1.83	1116	534.0	0.44	2400	0.28	0335
125	148.8	1.50	1131	686.1	0.52	1428	0.43	0349
126	76.6	0.24	1507	707.6	0.51	0745	0.47	2358
127	87.8	0.59	1155	696.8	0.50	1155	0.47	0133
128	101.8	0.39	1455	668.7	0.49	0827	0.39	1922
129	672.3	1.40	1139	561.4	0.45	0001	0.33	2358
130	658.8	1.39	1130	570.8	0.49	1540	0.32	0426
131	483.9	1.78	1229	601.6	0.53	0958	0.34	0436
132	297.9	1.44	0907	646.9	0.52	1303	0.33	0253
133	697.3	1.41	1136	586.6	0.47	1245	0.35	0334

Table 4. --*Summary of 1986 radiation data at the land station--Continued*

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
134	684.9	1.39	1156	576.9	0.47	1229	0.34	0439
135	644.8	1.43	1240	604.1	0.52	1346	0.34	0444
136	234.5	0.98	0911	711.1	0.57	1134	0.39	0321
137	220.3	1.76	1339	771.8	0.60	1349	0.44	2311
138	621.5	1.57	1216	748.1	0.61	1344	0.45	0034
139	479.2	1.59	1204	786.9	0.65	1128	0.48	0410
140	182.6	1.42	1208	794.0	0.60	1208	0.47	0244
141	174.6	1.55	0927	802.0	0.59	1201	0.54	2355
142	495.3	1.93	1341	781.3	0.60	1341	0.49	1637
143	507.4	1.88	1100	775.8	0.59	1059	0.48	1907
144	164.2	0.90	1209	749.0	0.55	1008	0.46	2344
145	641.0	1.90	1237	693.0	0.58	1416	0.40	2400
146	669.0	1.65	1230	644.7	0.59	1337	0.37	0441
147	601.7	1.55	1220	692.3	0.60	1443	0.40	0345
148	657.0	1.61	1105	688.1	0.57	0917	0.40	2400
149	580.0	1.67	1114	711.2	0.60	1309	0.37	0326
150	542.3	1.35	1136	731.8	0.55	1215	0.45	2357
151	508.4	1.63	1013	717.1	0.57	1107	0.43	1900
152	273.9	1.38	0951	776.1	0.60	1249	0.49	0052
153	331.1	1.96	1145	634.8	0.52	0025	0.32	2356
154	726.6	1.47	1156	525.0	0.44	2219	0.30	0415
155	693.0	1.57	1204	620.4	0.52	1303	0.35	0348
156	365.9	1.84	1134	744.3	0.59	1128	0.43	0233
157	89.1	0.30	1333	764.2	0.55	0413	0.49	1955
158	107.0	0.42	0957	761.9	0.55	1000	0.50	0148
159	197.3	1.58	1337	738.5	0.60	1528	0.43	2242
160	734.3	1.45	1153	558.6	0.44	1304	0.34	1938
161	663.5	1.45	1058	604.3	0.60	1615	0.34	0504
162	122.4	0.63	1403	702.0	0.53	1401	0.42	1851
163	94.3	0.29	1224	672.9	0.50	0132	0.44	2100

Table 4. --*Summary of 1986 radiation data at the land station--Continued*

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
164	194.0	1.05	1510	685.4	0.52	1417	0.41	2331
165	565.5	1.68	1123	668.2	0.56	1317	0.39	2329
166	684.7	1.59	1257	669.0	0.52	1316	0.41	0010
167	326.0	1.35	1101	746.2				
168								
169								
170								
171	370.7	1.49	1138					
172	729.2	1.45	1147					
173	714.0	1.42	1141					
174	423.9							
175	609.2							
176	537.4							
177	602.5	2.02	1205	707.4	0.57	1354	0.42	0001
178	137.8	0.44	1440	798.0	0.57	2152	0.50	0433
179	512.5	1.62	1127	812.0	0.61	1349	0.51	2341
180	552.0	1.79	1146	741.4	0.61	1259	0.46	2005
181	564.5	1.93	1154	713.2	0.58	1149	0.45	2351
182	692.0	1.51	1246	707.2	0.53	2400	0.45	0007
183	202.0	1.24	1546	779.2	0.56	1426	0.51	1543
184	233.6	1.75	1054	763.9	0.56	1004	0.41	2400
185	365.6	1.75	1309	722.0	0.56	1503	0.41	0102
186	102.8	1.22	0846	828.0	0.60	1614	0.55	2007
187	89.6	0.33	0959	845.0	0.60	1016	0.56	0116
188	605.6	1.62	1139	822.0	0.66	1150	0.49	2311
189	704.4	1.41	1117	730.7	0.56	1422	0.47	0502
190	544.9	1.78	1213	741.0	0.60	1227	0.44	2357
191	759.4	1.68	1007	663.6	0.54	0928	0.41	2346
192	643.9	1.80	1058	637.3	0.54	0941	0.41	2331
193	149.3	0.49	0807	725.3	0.54	1601	0.41	0246

Table 4. --*Summary of 1986 radiation data at the land station--Continued*

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
194	67.5	0.30	0702	776.7	0.55	1358	0.53	0321
195	158.6	1.59	1449	777.8	0.60	1628	0.46	2245
196	640.0	1.89	1145	695.4	0.56	1422	0.45	2300
197	530.5	1.65	1048	717.1	0.57	1436	0.45	2400
198	424.4	1.71	1205	751.1	0.62	1341	0.45	0028
199	598.6	1.43	1157	753.8	0.58	1720	0.47	0001
200	574.4	1.48	1023	772.8	0.59	1019	0.48	0109
201	107.9	0.79	1156	841.0	0.60	1319	0.50	0226
202	620.0	1.44	1201	724.3	0.59	0212	0.42	2400
203	682.1	1.46	1208	688.0	0.52	1209	0.42	0022
204	540.8	1.61	1212	745.0	0.60	1428	0.47	0002
205	572.0	1.66	1254	776.1	0.62	1318	0.48	0037
206	327.4	1.38	1149	809.0	0.63	1245	0.52	0244
207	274.7	1.22	1331	842.0	0.64	1113	0.52	0103
208	266.7	1.75	1014	852.0	0.62	1014	0.56	1842
209	469.1	1.81	0946	847.0	0.62	1217	0.55	1634
210	100.7	0.50	1014	843.0	0.60	1233	0.55	0511
211	170.3	0.62	1254	809.0	0.58	1326	0.49	2359
212	254.1	1.73	1237	808.0	0.59	1246	0.50	0003
213	225.7	1.24	1419	834.0	0.60	1824	0.54	1930
214	466.0	1.45	1012	809.0	0.60	1753	0.51	0825
215	435.8	1.46	1122	802.0	0.60	0908	0.49	2358
216	523.7	1.83	1224	746.2	0.59	1237	0.46	2235
217	628.3	1.45	1139	718.7	0.58	1704	0.44	0334
218	410.1	1.20	1125	774.5	0.59	1357	0.47	0121
219	86.0	0.66	1220	829.0	0.60	1914	0.52	0043
220	366.4	1.46	1132	813.0	0.62	1323	0.52	0225
221	339.8	1.54	1158	806.0	0.61	1328	0.50	1841
222	451.3	1.46	1120	786.8	0.60	1224	0.51	1830
223	430.6	1.57	1148	780.7	0.61	0851	0.45	2400

Table 4. --*Summary of 1986 radiation data at the land station--Continued*

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
224	493.8	1.59	1235	671.3	0.55	1011	0.43	0331
225	540.8	1.69	1155	673.1	0.56	1353	0.42	2337
226	513.6	1.52	1007	695.5	0.56	1353	0.42	0003
227	262.2	1.00	0933	778.3	0.59	2100	0.46	0022
228	166.6	0.94	1451	835.0	0.61	1451	0.54	2002
229	452.6	1.47	1126	825.0	0.62	1154	0.52	2348
230	223.0	1.01	1212	829.0	0.61	1426	0.52	2157
231	255.8	1.62	1124	802.0	0.59	1332	0.47	2359
232	470.8	1.58	1045	781.1	0.59	1919	0.46	0122
233	499.8	1.48	1037	784.1	0.58	2224	0.49	0725
234	590.4	1.34	1206	695.4	0.57	0438	0.41	2304
235	213.0	1.79	0938	745.4	0.56	1528	0.42	0119
236	254.3	1.77	1040	746.3	0.57	0202	0.44	0711
237	138.4	1.23	1410	700.1	0.54	1405	0.41	2249
238	573.8	1.27	1139	673.8	0.51	2356	0.40	0032
239	188.6	1.38	1316	772.9	0.61	1256	0.46	2336
240	275.9	1.10	1521	631.8	0.50	0631	0.37	2036
241	451.1	1.72	1156	588.5	0.51	1409	0.36	0415
242	547.8	1.27	1139	639.9	0.50	1432	0.40	0008
243	509.2	1.38	1226	662.2	0.50	1234	0.42	2159
244	394.6	1.61	1130	693.0	0.57	1319	0.45	2132
245	310.5	0.96	0917	707.3	0.56	1138	0.46	2126
246	129.1	0.44	1532	772.4	0.56	1308	0.46	0007
247	134.9	0.36	1227	757.1	0.54	2054	0.44	0552
248	23.3	0.10	1154	784.2	0.56	2346	0.53	0155
249	422.2	1.49	1158	732.1	0.56	1250	0.41	2358
250	317.6	1.66	1157	670.0	0.54	1157	0.39	2203
251	534.5	1.53	1138	597.0	0.49	0915	0.38	0237
252	463.2	1.39	1243	648.6	0.54	1443	0.41	2213
253	292.7	1.49	1027	723.8	0.55	1319	0.44	0011

Table 4. --*Summary of 1986 radiation data at the land station--Continued*

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
254	136.4	0.83	1338	812.0	0.60	1405	0.51	0134
255	144.1	1.24	1412	799.0	0.61	1451	0.47	1944
256	499.3	1.16	1143	644.3	0.53	1912	0.38	0551
257	479.0	1.33	1107	560.6	0.47	0650	0.36	0440
258	405.0	1.39	1150	644.5	0.50	2253	0.38	0001
259	209.7	1.65	1141	659.0	0.51	1150	0.38	2239
260	477.3	1.15	1142	558.1	0.42	1336	0.36	2153
261	345.4	1.57	1108	649.1	0.51	1327	0.40	2329
262	350.6	1.26	1026	685.5	0.56	1225	0.42	0025
263	60.0	0.28	1139	751.5	0.54	1156	0.45	0356
264	147.8	0.89	1452	706.6	0.54	1406	0.40	1808
265	323.5	1.27	1129	689.6	0.54	2359	0.42	0918
266	50.7	0.29	1257	767.9	0.55	1852	0.48	2136
267	384.9	1.41	0930	713.1	0.58	0930	0.43	2047
268	438.7	1.14	1232	648.7	0.51	0127	0.40	2131
269	270.8	1.48	1126	710.1	0.57	1433	0.43	0013
270	434.3	1.09	1140	565.4	0.44	0021	0.35	0547
271	273.5	1.54	1123	689.9	0.55	1915	0.38	0001
272	137.7	1.09	1234	790.9	0.58	1426	0.46	0145
273	241.0	1.24	1158	815.0	0.62	1350	0.51	1739
274	238.9	1.34	1128	728.9	0.58	0330	0.43	2107
275	164.3	0.99	1022	716.3	0.54	1858	0.42	0232
276	142.5	0.50	0955	705.6	0.53	2324	0.42	0047
277	131.6	0.90	0955	755.3	0.55	1009	0.46	2332
278	272.0	1.33	1206	646.5	0.51	0014	0.36	2317
279	199.1	1.31	1138	632.1	0.48	1249	0.37	0001
280	351.1	1.12	0957	551.5	0.43	0240	0.34	0754
281	335.3	1.00	1021	632.4	0.53	1932	0.36	0113
282	60.5	0.31	1357	682.1	0.53	1046	0.35	2359
283	384.6	0.99	1128	478.2	0.38	0101	0.31	0619

Table 4. --*Summary of 1986 radiation data at the land station--Continued*

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
284	381.4	1.01	1019	517.6	0.46	2319	0.31	0332
285	309.5	1.15	1306	589.5	0.47	2308	0.35	0045
286	76.0	0.31	1245	717.3	0.53	1540	0.40	0100
287	39.5	0.16	1038	761.6	0.56	1527	0.40	2400
288	157.3	1.20	1049	589.1	0.48	1144	0.36	2358
289	96.4	0.55	1037	649.3	0.48	1339	0.35	0303
290	153.7	1.10	1208	649.9	0.47	1306	0.40	0834
291	283.0	1.23	1106	546.6	0.45	1109	0.33	2258
292	267.2	0.92	1029	561.0	0.45	0829	0.34	0039
293	202.8	1.07	1153	632.9	0.50	1153	0.38	0005
294	150.4	0.88	1050	677.0	0.52	1340	0.38	0801
295	274.6	0.81	1137	609.8	0.50	1339	0.37	0435
296	183.2	0.93	1159	673.4	0.55	1150	0.41	1702
297	233.3			514.9				
298	294.4	0.85	1133	531.4	0.40	1444	0.33	0615
299	107.5	0.56	1222	653.6	0.50	1858	0.37	0008
300	44.1	0.22	1128	708.1	0.50	2346	0.48	0255
301	105.7	0.82	1034	697.8	0.52	1446	0.38	2400
302	254.9	0.85	1105	632.1	0.50	2338	0.37	0111
303	155.8	0.97	1102	609.1	0.51	0531	0.33	2400
304	284.8	0.81	1124	462.4	0.35	1257	0.30	0632
305	244.1	0.79	1114	579.7	0.50	1745	0.32	0008
306	80.5	0.70	1356	608.3	0.51	0532	0.31	2132
307	211.1	0.77	1301	528.6	0.42	2313	0.31	0442
308	61.8	0.90	1155	559.6	0.48	1156	0.28	2359
309	123.9	0.44	1142	508.1	0.42	2327	0.28	0026
310	71.1	0.50	1107	628.5	0.47	1203	0.37	2358
311	249.9	0.75	1125	535.4	0.43	2353	0.33	1837
312	15.0	0.06	1149	640.5	0.46	2344	0.43	0203
313	47.3	0.37	1143	624.7	0.49	1227	0.34	2252

Table 4. --*Summary of 1986 radiation data at the land station--Continued*

JULIAN DAY	DAILY TOTAL SHORT-WAVE SOLAR RADIATION [(cal/cm²)/d]	DAILY MAXIMUM SHORT-WAVE SOLAR RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM SHORT-WAVE SOLAR RADIATION (h)	DAILY TOTAL LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/d]	DAILY MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MAXIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)	DAILY MINIMUM LONG-WAVE ATMOSPHERIC RADIATION [(cal/cm²)/min]	TIME OF MINIMUM LONG-WAVE ATMOSPHERIC RADIATION (h)
314	134.9	0.99	1100	490.7	0.41	0019	0.28	2217
315	28.3	0.13	1100	571.7	0.42	1328	0.29	0052
316	161.8	0.91	0958	555.2	0.41	0036	0.32	0925
317	189.1	0.88	1106	447.9	0.41	0632	0.18	2319
318	217.9	0.85	1024	388.9	0.36	2245	0.19	0011
319	152.9	0.97	1059	545.1	0.42	1328	0.31	0707
320	162.7	0.67	1020	569.5	0.42	2312	0.34	1608
321	159.3	0.78	1137	546.7	0.44	1519	0.31	2152
322								
323	165.1	0.71	1208	449.6	0.41	0231	0.23	1935
324	53.7	0.36	1332	480.1	0.41	2400	0.22	0607
325	43.8	0.35	1335	584.3	0.45	1022	0.33	2256