

Hydrometeorological Data for the Experimental Lakes Area, Northwestern Ontario, 1969 through 1978

Part I

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November 1981

**Canadian Data Report of
Fisheries & Aquatic Sciences
No. 285**



Government of Canada
Fisheries and Oceans

Gouvernement du Canada
Pêches et Océans

Canadian Data Report of Fisheries and Aquatic Sciences

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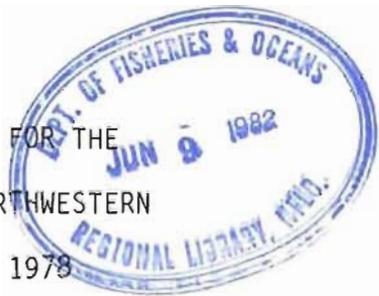
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Canadian Data Report of
Fisheries and Aquatic Sciences 285

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HYDROMETEOROLOGICAL DATA FOR THE
EXPERIMENTAL LAKES AREA, NORTHWESTERN
ONTARIO, 1969 THROUGH 1978



PART I

by

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This is the 39th Data Report
from the Western Region, Winnipeg

c Minister of Supply and Services Canada 1981
Cat. no. Fs 97-13/285 ISSN 0706-6465

Correct citation for this publication is:

BEATY, K.G. 1981. Hydrometeorological data for the Experimental Lakes Area, Northwestern Ontario, 1969 through 1978 (In three parts). Can. Data Rep. Fish. Aquat. Sci. 285: vi + 1-97 (Part I); v + 98-316 (Part II); iv + 317-367 (Part III).

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Part I contains pages i through 97.

Part II contains pages 98 through 316.

Part III contains pages 317 through 367.

ABSTRACT

Beaty, K.G. 1981. Hydrometeorological data for the Experimental Lakes Area, Northwestern Ontario, 1969 through 1978 (In three parts). Can. Data Rep. Fish. Aquat. Sci. 285: vi + 1-97 (Part I); v + 98-316 (Part II); iv + 317-367 (Part III).

In 1969, hydrologic studies began at the Experimental Lakes Area in support of biological and limnological studies. This report, in three parts, presents hydrometeorological data collected during the 1969 to 1978 period of study, dealing with: precipitation, snow surveys, air temperature, wind, evaporation, relative humidity, bright sunshine, surface temperature, (Part I); streamflows, lake levels, (Part II); groundwater, and stream sediment transport, (Part III).

Key words: watershed hydrology; groundwater studies; climatological data; sediment transport; bedload.

RESUME

Beaty, K.G. 1981. Hydrometeorological data for the Experimental Lakes Area, Northwestern Ontario, 1969 through 1978 (In three parts). Can. Data Rep. Fish. Aquat. Sci. 285: vi + 1-97 (Part I); v + 98-316 (Part II); iv + 317-367 (Part III).

En 1969, des études hydrologiques devant servir de base à des études biologiques et limnologiques furent entreprises dans la Région des Lacs Expérimentaux. Le présent rapport, divisé en trois sections, contient des données hydrométéorologiques recueillies lors des études effectuées de 1969 à 1978 sur les précipitations, les relevés nivométriques, la température de l'air, le vent, l'évaporation, l'humidité relative, l'insolation, la température en surface, (première section); les débits d'eau, le niveau d'eau des lacs, (deuxième section); les eaux souterraines et le transport des sédiments dans les cours d'eau (troisième section).

Mots-clés: hydrologie des bassins hydrographiques; études des eaux souterraines; données climatologiques; transport des sédiments; charriages de fond.

INTRODUCTION

In 1968, experimental eutrophication studies were initiated in the Experimental Lakes Area (ELA) in Northwestern Ontario. ELA is located at 93°30'-94°00'W, 49°30'-49°45'N. Within the area, 46 small lakes in 17 localized drainage basins were set aside by agreement for the purpose of experimental research. The rationale for ELA has been discussed by Johnson and Vallentyne (1971), and the geography of the area has previously been described by Brunskill and Schindler (1971) and Ellis and Mattice (1974). The natural supply of nutrients, metals etc., to the lakes is derived by determining the sum of contributions from precipitation, direct runoff, streamflow, and groundwater seepage. To establish the natural supply of chemical constituents, the individual components of the hydrologic cycle are identified, sampled and gauged or estimated.

HYDROLOGIC STUDIES AT ELA

In 1969, hydrologic studies were begun at ELA. R.W. Newbury¹ of the University of Manitoba, Department of Civil Engineering investigated surface hydrology, J.A. Cherry² of the University of Manitoba, Department of Earth Sciences investigated subsurface hydrology, and the author³ served as a technical assistant in all phases of this work. These studies also involved participation and support from the Water Survey of Canada (WSC) (Winnipeg), the Canada Centre for Inland Waters (CCIW) (Burlington), Inland Waters Directorate Hydrologic Sciences Groundwater Division (Ottawa), the Department of Transport Meteorological Branch⁴ (Winnipeg), and the Fisheries Research Board⁵ (FRB) (Winnipeg). The involvement of WSC was with construction, maintenance, and servicing much of the stream and lake gauging network, as well as computation of mean daily discharge and lake level data. CCIW provided equipment and data analysis for solar radiation in all years. They also provided a recording instrument tower on Lake 239 for wind, air temperature, water surface temperature, and relative humidity, as well as direct, reflected, diffused and net solar radiation in the 1969 to 1971 open water seasons. AES established a reporting meteorological station which includes wind, evaporation pan, air temperature, bright sunshine, and precipitation equipment.

The primary objective of the hydrologic studies program was to determine, within a water budget framework, the sources and quantities of water entering and leaving small lakes in a portion of the Precambrian Shield in Northwestern Ontario. Secondary objectives included the investigation of empirical indices for evaporation and transpiration, response characteristics of headwater basins, methods of extrapolating hydrologic parameters to adjacent lake basins, and mechanisms and rates of chemical weathering. To some extent, these hydro-meteorological and geochemical problems have been investigated and published by Bottomley (1974),

1. research scientist at the Freshwater Institute from 1975.
2. moved to University of Waterloo in 1974, no longer involved at ELA.
3. at Freshwater Institute from 1975.
4. now Atmospheric Environment Service (AES).
5. now Department of Fisheries and Oceans.

Kennedy (1974), Schindler et al. (1976), Newbury and Beaty (1977), Newbury et al. (1979), Newbury and Beaty (1980), Schindler et al. (1980), and Campbell and Torgersen (1980). This report presents all hydrometeorological data collected at ELA in the 10 year period from 1969 through 1978 related to the above objectives.

DISCUSSION

This report has been published in three separate parts which seem to best satisfy specific data user requirements. The three parts summarize: (1) climatological data, (2) hydrometric data, and (3) groundwater investigations and sediment transport. Within these three parts, eleven types of data are presented, each in a separate appendix. Each appendix includes a discussion of methods and data summaries.

The climatological section deals with precipitation, snow surveys, air temperature, wind, evaporation pan, relative humidity, bright sunshine, and surface temperature. All climatological equipment and techniques conform to AES standards. Some of the monthly meteorological data were reported regularly in the AESC regional summaries (AES 1969-1978) under the station name "Rawson Lake, Ontario". This report provides more detailed daily values and, in the case of precipitation, hourly values.

The hydrometric section provides mean daily stream discharges and lake levels for each of the 22 hydrometric stations at ELA. Some of this data has been previously reported in WSC regional summaries (WSC 1969-1978), and has been included in this report to provide a completed hydrometric data summary. Also provided for each station are: a station or basin discussion, morphometric data, topographical basin maps, bathymetric maps, and annual discharge hydrographs.

The third part deals with the groundwater investigations in the Rawson Lake Watershed, and sediment transport of bedload and suspended sediment from the East inflow to Lake 239.

Users of this report who are unfamiliar with hydrometeorological methods and instrumentation will probably find Bruce and Clark (1966) to be a helpful reference.

This report summarizes data in English units to the end of 1978 prior to the metrification programme. Data from 1978 on will be subsequently published in metric units.

ACKNOWLEDGEMENTS

Many individuals, too numerous to mention, have assisted in the installation and upkeep of equipment, and the collection and preparation of data for this report. Without them, this report would not have been possible. The assistance provided by Water Survey of Canada, Atmospheric Environment Service and the Groundwater Subdivision of Environment Canada is gratefully acknowledged. Dr. John Cherry of the University of Waterloo was responsible for the direction of the groundwater program and actively participated in all phases of the investigations. Winter records were made possible by the contributions of Mr. Bill Forbes of the WSC (Keewatin) office, and ELA camp managers H. Schneider, P. Michaelis and J. Beaty. Dr. D. Schindler provided valuable project direction, and offered support for the hydrologic studies program.

through the years. A special acknowledgement must go to Dr. R. W. Newbury for the encouragement and direction, which made this work interesting, and a pleasure to perform. This author also wishes to thank Art Dalton for his assistance over the years, Lloyd Mohr for sharing in the drafting and tedious checking of tables, and Mrs. Sharon Ryland for typing this lengthy report and for her patience with me.

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APPENDIX 1

PRECIPITATION DATA

Measurements of precipitation at ELA during the 1969 to 1978 period consisted of twice daily standard rain gauge readings, twice daily snowfall water equivalent measurements, recorded hourly values of rainfall events, weekly measurements from a standard rain gauge network, and snow survey measurements. All but the snow survey data are included in this section of report. Snow survey summaries are provided in Appendix 2. On June 27, 1969, a standard Class A reporting meteorological site (Station 1, Figure 1) was installed with the assistance and cooperation of the Atmospheric Environment Service. This site is referred to as the Rawson Lake Station in AES data summaries. Table 1 provides a summary of total annual precipitation amounts for Station 1, including a breakdown of snow and rainfall amounts.

Daily precipitation at Station 1

Tables 2 to 11 provide daily values of precipitation for each year to the nearest 0.01 inch of water measured at Station 1 from June 27, 1969 to the end of 1978. The daily values apply to a standard "precipitation day", from 08:00 central standard time of one day to 08:00 cst of the following day and are based on the sum of two daily measurements, morning and evening. Rainfall was measured in a Canadian standard rain gauge, and snowfall water equivalent was measured using a shielded Nipher gauge. For events where both rain and snow occurred, rain was indicated "r", snow was indicated "s", and mixed snow and rain was indicated "m".

Recorded hourly precipitation at Station 1

Tables 12 to 21 provide hourly values of rainfall measured at the Station 1 meteorological site for May to October each year. The "calendar day" hourly and total values reported are important for the analysis of stream runoff hydrographs, and the separation of precipitation amounts for water budget calculations.

The AES tipping bucket rain gauge, sensitive to 0.01 inch and equipped with a daily chart event recorder, were used. The tipping bucket type of gauge is probably the most common of the short duration recording rainfall gauges, but does tend to catch slightly less than true rainfall. To overcome this, recorded values were corrected to a non-recording standard rain gauge located about 10 feet away. Since this type of gauge is not suitable for the measurement of snow, problems are often encountered in May and October when events of mixed or freezing precipitation are possible. Whenever this occurred and recorded hourly values were unavailable, standard gauge totals were included and were indicated by an asterisk (*) in the daily total column. The daily recorded charts for this station are on file with AES headquarters. This data is also reported in a different and summarized form regularly in the AESC regional summaries (AES 1969-78).

Weekly rainfall amounts for all stations

During each open water season from 1970 to 1978, up to 11 rain gauge sites were used to account for spacial variation in rainfall events. Tables 22 to 30 summarize weekly precipitation amounts for the rain gauge sites used and Figure 1 shows their locations. Station 1 is at the meteorological site, and the value shown is a sum of the daily values for the week. Gauges 2 to 11 were read once per week, usually Monday afternoons or Tuesday mornings. Stations 3, 5, 7, 8 and 10 were also equipped with a weekly tipping bucket recording rain gauge. All values have been adjusted, using the nearest recorded values, to apply to a common weekly interval from Monday midnight to the following Monday midnight. This interval is a standard that has been used for all years in weekly water budget calculations. Evaporation from rain gauges, over the week, is thought to be negligible, due to the funnel design and extremely small orifice.

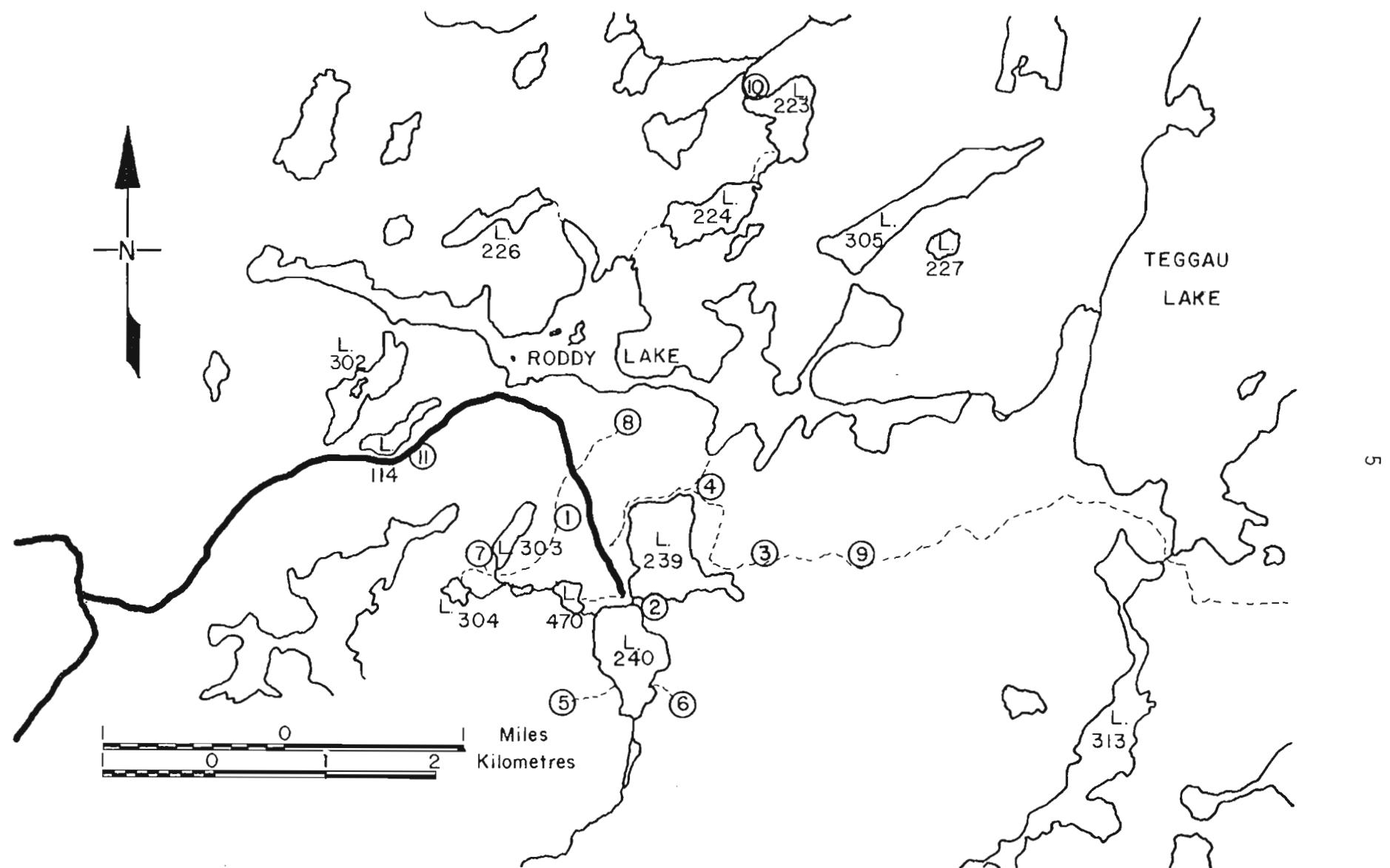


Fig. 1 Map showing locations of the rain gauge stations used at the Experimental Lakes Area during the 1969 to 1978 period.

Table 1 Precipitation summary for the period 1969 to 1978 from the Rawson Lake meteorological site (Station 1).

Year	Precipitation (inches of water)		
	Rain ^b	Snow ^c	Total
1969 ^a	-	-	-
1970	21.43	16.18	38.08
1971	23.15	8.79	31.94
1972	21.53	6.38	27.91
1973	23.83	5.92	29.75
1974	19.17	7.72	26.89
1975	18.57	8.51	27.08
1976	13.00	6.52	19.52
1977	22.55	11.86	34.41
1978	18.36	6.50	24.86
Mean	20.18	8.71	28.94

Note: a Not a full year record. Station set up June 27, 1969.

b Rainfall from a AESC Standard Rain Gauge.

c Snowfall water equivalent from an AESC Nipher shielded snow gauge.

Table 2 Daily precipitation for 1969 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	
1							.04	-	-	.08	.09r	-	
2							-	-	-	.05	-	-	
3							.24	.34	-	.09	-	-	
4							.82	-	.04	1.19	-	-	
5							-	1	.52	.14	-	.19s	
6							-	1.24	.05	.06	-	.11s	
7							-	.45	.04	.10	-	.36s	
8							-	-	-	.01	-	.18s	
9							.05	.41	-	.19	-	.03s	
10							-	T	.11	-	Ts	.01s	
11							-	T	-	-	.12s	.20s	
12							.03	1.10	-	-	.07s	.02s	
13							.32	.10	-	-	.27s	-	
14							.10	.04	.72	.06s	.10s	-	
15							-	-	.20	.01	.04s	-	
16							-	.05	-	-	.05s	-	
17							-	.01	-	-	-	-	
18							-	-	-	-	.03s	.02s	
19							-	-	-	-	.05s	Ts	
20							-	-	T	-	-	Ts	
21							.30	-	.33	-	.04s	-	
22							1.00	-	.08	.01s	-	Ts	
23							-	-	-	Ts	.01s	-	
24							.13	-	.70	-	.02s	.22s	
25							-	-	.22	.04s	Ts	Ts	
26							.57	-	.14	-	-	Ts	
27							.05	-	.04	.03s	-	-	
28							.08	-	.01	.25	-	.08s	
29							.02	-	1.54	.05	-	Ts	
30							-	1.53	-	.15	-	Ts	
31							-	-	-	.07	-	.01s	
T	Rain						-	5.13	5.29	3.64	1.99	.09	-
S	Snow						-	-	-	.14	.80	1.45	
A	Precip.						-	5.13	5.29	3.64	2.13	.89	1.45

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 3 Daily precipitation for 1970 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	
1	.01s	.16s	-	-	-	-	-	-	.34	.23	Ts	.26m	
2	.04s	.01s	1.45s	-	T	-	.25	-	.12	.06	Ts	-	
3	.11s	-	.55s	-	.03	-	.05	-	.09	-	-	-	
4	.01s	.04s	-	-	.11	-	-	-	-	-	-	.02s	
5	.01s	-	1.03s	-	-	-	.23	-	T	-	-	.04s	
6	.01s	-	Ts	-	.01	-	-	.17	1.27	.10	-	-	
7	.06s	-	-	-	-	-	.05	-	.97	-	-	-	
8	.03s	.02s	-	-	.29	-	-	-	.31	.75s	-	.22s	
9	-	-	-	.12s	T	.51	-	-	.03	1.02s	-	-	
10	.19s	-	-	-	.01s	-	T	-	.02	-	-	-	
11	.02s	.04s	-	-	.28m	.02	-	-	1.15	-	-	-	
12	-	-	.07s	-	T	-	.32	-	.16	.25	Ts	.04s	
13	.02s	-	-	-	-	-	.06	-	-	.03s	-	.47s	
14	.32s	.04s	-	-	.45m	-	T	.09	T	.04s	-	Ts	
15	.06s	.23s	-	-	.28m	.14	-	.15	.62	-	-	.01s	
16	-	-	.45	-	1.43	-	T	-	-	-	-	Ts	
17	-	.28s	-	2.03s	-	.02	-	-	-	-	.21s	.24s	
18	-	.02s	-	-	-	-	.48	.51	-	-	.02s	Ts	
19	.04s	-	-	-	.02	-	T	-	-	-	-	.03s	
20	-	-	-	.99s	.30	-	-	-	.06	-	.04s	-	
21	.01s	-	-	-	-	-	-	.55	.17	-	.22s	.14s	
22	Ts	-	-	.88s	-	-	-	-	-	.03	.02s	.02s	
23	.06s	-	-	.03s	-	.04	-	-	-	-	-	.02s	
24	-	.12s	Ts	-	.45	-	.07	-	.01	.09	.33s	.05s	
25	.03s	.13s	.24s	-	.08m	.65	-	-	.09	.08	.20s	.12s	
26	Ts	-	.17s	-	.03	-	-	.19	.07	.97	-	.30s	
27	.13s	-	-	.95	-	-	-	-	-	.40m	Ts	-	
28	Ts	-	-	.17	.22	.13	-	-	-	.24m	Ts	Ts	
29	-	-	.08s	-	.15	-	1.00	.92	-	.06	.01s	-	
30	-	-	-	-	-	.32	.03	-	-	.32	.34s	-	
31	.08s	-	-	-	.22	-	-	-	-	.33	-	.18s	
T	Rain	-	-	-	1.57	2.90	3.46	2.00	2.58	5.38	2.76	-	.18
S	Snow	1.24	1.11	3.59	4.05	.05	-	-	-	2.24	1.59	2.18	
A	Precip.	1.24	1.11	3.59	5.62	3.55	3.46	2.00	2.58	5.38	5.00	1.59	2.36

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 4 Daily precipitation for 1971 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	.04s	-	.03s	.67s	T	-	-	T	.08	.08	.04m	-
2	.04s	-	-	.27s	-	-	-	-	.78	.09	.35m	-
3	-	.10s	-	-	.04	-	.12	-	.26	.53	.11s	-
4	.02s	-	.06s	-	-	.63	-	-	.83	.10	.53s	.08s
5	-	-	.15s	-	-	.87	-	-	.02	.18	.32s	.05s
6	.01s	-	.09s	-	-	.02	.03	-	.10	T	.09s	.07s
7	-	.06s	-	-	.07	-	-	-	T	.19	Ts	Ts
8	.03s	-	-	-	-	-	-	-	-	-	Ts	-
9	.03s	.01s	-	-	-	-	.07	-	-	-	-	.10s
10	-	.01s	-	-	.07	.13	.01	-	-	-	-	.03s
11	-	.02s	.04s	-	.01	.15	.88	-	-	.02s	-	-
12	.17s	-	Ts	-	-	.02	.22	-	-	-	-	-
13	.25s	.09s	.33s	-	-	-	-	-	-	T	-	.05s
14	-	.02s	.45s	-	T	-	-	-	T	.01	.04	.03s
15	-	-	-	.07	.74	.23	-	-	.02	.04	.01	.21s
16	-	.05s	-	.41	.38	-	-	1.25	.09	.69	.09s	.02s
17	-	.05s	-	-	.02	T	-	.09	T	.39	.25s	-
18	-	-	-	.39	-	-	-	T	-	.15	.10s	.04s
19	.09s	-	.02s	T	.20	.39	-	.19	-	.01	.13s	.01s
20	.02s	-	Ts	-	.01	-	T	-	-	-	.13s	.06s
21	-	-	.02s	-	-	.14	-	T	T	-	-	-
22	Ts	-	.04s	-	.65	.03	.05	-	-	-	.30s	Ts
23	-	-	-	-	.19	-	.10	.44	-	-	.03s	Ts
24	-	-	-	Ts	.71	-	.35	.08	-	-	.01s	-
25	-	-	.28s	-	-	T	.39	-	-	-	.01s	.11s
26	-	.03s	.02s	-	-	.03	.19	-	.22	.09	.01s	-
27	-	.25s	.01s	.07s	-	.67	.72	-	.02	.05	Ts	-
28	.07s	-	-	Ts	.05	.08	.07	-	.48	-	Ts	Ts
29	.07s	-	-	-	-	.02	-	T	-	Ts	Ts	-
30	-	-	Ts	.54s	-	1.99	-	-	2.14	1.16m	Ts	.01s
31	-	-	.09s	-	-	-	.07	.17	-	-	-	.07s
T Rain	-	-	-	.80	2.47	5.93	3.50	2.22	5.04	3.04	.15	T
U												
T Snow	.84	.69	1.63	1.55	-	-	-	-	-	.74	2.40	.94
A Precip.	.84	.69	1.63	2.35	2.47	5.93	3.50	2.22	5.04	3.78	2.55	.94
L												

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 5 Daily precipitation for 1972 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	.05s	Ts	Ts	-	-	-	-	.31	-	.10	-	-
2	.01s	-	-	.05s	-	-	-	.07	-	.16	-	-
3	-	-	.02s	Ts	.01	-	-	-	.50	T	.40	-
4	.04s	-	-	-	-	.11	-	.04	-	.03	Tm	-
5	.02s	-	.02s	-	.12	-	-	-	-	-	.52	-
6	.07s	-	.51s	-	-	-	.03	-	1.59	-	.70s	-
7	.14s	-	.05s	-	-	-	.30	.16	-	.01	-	-
8	.11s	-	-	-	-	-	.13	T	.05	-	.12s	-
9	.02s	-	-	.03s	-	-	-	-	-	-	.10s	-
10	.14s	-	.05s	-	-	.27	2.41	-	.01	.44	.20s	-
11	.02s	-	-	T	.16	.09	.19	-	-	-	-	-
12	-	.09s	-	.03s	.27	-	.01	.14	.10	-	-	-
13	Ts	.20s	-	-	.24	.06	1.00	-	-	-	-	-
14	-	Ts	.06	.07	-	.02	.08	.82	.02	.02s	-	-
15	.07s	.05s	-	-	-	-	-	.13	.18	-	.08s	-
16	-	.12s	-	-	-	-	.45	.04	.17	.01s	.04s	-
17	.01s	.23s	-	-	-	-	-	-	-	.01s	.03s	-
18	Ts	-	.16s	-	-	1.91	-	-	-	-	.02s	-
19	.03s	-	-	.56	-	.25	.28	.01	-	-	-	-
20	.12s	.02s	.02	-	T	-	-	2.42	-	.01	.02s	.17s
21	.20s	Ts	.01s	.15	-	-	T	-	-	-	-	.09s
22	Ts	.02s	-	.15	.23	-	-	-	-	-	-	Ts
23	.02s	.03s	-	-	-	-	.02	-	.89	-	-	-
24	.11s	-	-	-	-	-	-	-	.03s	.03	-	-
25	-	Ts	-	-	.18	-	-	-	.16s	-	.11s	-
26	-	-	-	-	-	-	-	-	.04m	.23	.04s	-
27	-	.03s	.03s	-	.40	-	-	-	.36	.08	.01s	-
28	-	-	.02s	-	.03	.13	.07	-	.02	-	-	.15s
29	-	.10s	.02s	-	-	-	-	-	T	.17s	-	.11s
30	Ts	-	.26s	-	-	-	.25	T	.05	-	-	.47s
31	Ts	-	.15s	-	-	-	-	-	-	-	-	.03s
T Rain	-	-	.08	.37	2.06	2.00	3.79	4.60	3.96	1.09	.92	-
U												
T Snow	1.18	.89	1.28	.11	-	-	-	-	.22	.21	1.47	1.02
A Precip.	1.18	.89	1.36	.48	2.05	2.00	3.79	4.60	4.18	1.30	2.39	1.02
L												

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 6 Daily precipitation for 1973 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	-	-	-	-	-	-	-	-	1.58	-	-	-
2	.12s	-	-	-	-	.04	-	-	.06	-	.09s	.03
3	-	-	-	-	-	.36	.11	-	.57	.64	.01s	-
4	-	-	-	.08s	-	-	-	.20	.32	-	.02s	-
5	-	.25s	-	-	.67	.03	.15	.65	.05	-	.02s	-
6	-	-	-	.05s	T	-	1.98	-	-	-	.10s	-
7	-	-	-	-	-	.07	-	-	-	-	.07s	-
8	-	-	.15s	-	-	.08	.02	1.30	-	.28	.05s	.48
9	-	-	-	.05s	.26	.19	-	.30	-	.18	.01s	-
10	-	-	.45s	-	.07	-	-	-	-	.05	-	-
11	-	.15s	-	-	-	-	.09	-	-	1.05	-	-
12	-	.18s	-	-	-	-	.02	T	-	.13	.12	-
13	-	-	.37s	-	-	.16	-	-	.17	.04	.20s	-
14	-	-	.67s	-	-	.53	-	-	.04	-	.08s	-
15	-	-	-	.19s	.02	.04	-	-	T	-	-	-
16	-	-	-	.26s	-	.77	.15	-	-	-	-	-
17	-	-	-	-	T	.21	.17	-	-	.06s	-	-
18	.11s	-	-	-	-	.11	.06	.30	-	-	-	-
19	-	-	-	-	-	.24	-	-	-	-	.46s	-
20	-	-	-	1.25	-	.12	-	-	-	-	.12	-
21	-	-	-	-	-	-	-	-	1.65	-	.09	-
22	-	-	-	-	.27	.01	.01	-	.07	T	-	-
23	-	-	-	-	.11	-	.42	-	.04	-	-	-
24	-	-	-	-	.27	.23	.05	.03	.56	.04	Ts	-
25	-	-	-	-	.17	.07	.24	.03	.01	.02	.21s	.06
26	-	-	-	-	-	.41	1.63	-	.04	.07	.05s	.20
27	-	.35s	-	-	-	-	-	-	-	.01	.16s	.05
28	-	-	-	-	-	.03	-	-	-	-	-	.05
29	-	-	-	-	-	-	.18	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	.95	-	.03	-	-
T Rain	-	-	-	1.25	1.84	3.70	5.28	3.76	5.16	2.51	.33	-
O Snow	.23	.93	1.64	.63	-	-	-	-	-	.09	1.53	.87
L Precip.	.23	.93	1.64	1.88	1.84	3.70	5.28	3.76	5.16	2.60	1.86	.87

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 7 Daily precipitation for 1974 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	-	-	.05s	.46s	.15m	-	-	.26	.08	-	.30s	-
2	-	-	.03s	-	.02	.04	-	-	-	-	.09s	.01s
3	-	-	.04s	-	.05	T	.23	-	-	-	.02s	-
4	.03s	.16s	-	-	-	.25	.17	-	-	.64	.01s	-
5	-	-	-	-	-	1.57	-	-	-	.04s	-	.03s
6	.07s	-	-	-	-	.31	-	-	T	.15	-	Ts
7	-	-	-	-	-	-	.11	-	-	.05	-	-
8	-	.08s	-	-	-	-	.24	-	-	-	-	-
9	-	.10s	.10s	-	-	-	-	.02	T	-	-	-
10	-	-	-	-	.85	-	-	1.02	.15	-	-	Ts
11	-	.14s	-	-	.93	-	.17	.52	.03	-	.08s	-
12	-	-	-	.32m	-	-	-	-	-	-	.05s	-
13	.08s	-	-	.02	.10	.33	-	-	-	.12	.12s	Ts
14	-	.17s	.14s	-	.13	.11	-	1.91	.10	.19s	.07s	.16s
15	.38s	-	-	-	-	-	-	.09	T	.19	-	.20s
16	-	-	.09s	-	.32	-	.38	.03	.54	.10	-	.02s
17	.18s	-	.20s	-	-	-	-	-	.34	.03s	-	-
18	-	-	-	-	.02	-	-	.01	.04	-	T	Ts
19	-	-	-	.21	.80	-	-	.05	-	-	.27	.01s
20	.15s	-	-	1.47	.02	-	-	.95	T	-	-	.03s
21	-	-	-	-	-	-	-	.08	-	-	Ts	-
22	-	-	-	.96m	.03	-	-	.06	-	-	-	.35s
23	.04s	-	-	-	-	-	-	-	.03	-	-	.02s
24	-	-	-	-	-	-	.03	-	.06	-	T	Ts
25	.16s	-	-	-	-	-	.09	.06	-	-	-	-
26	-	-	-	.09	-	-	-	-	-	-	.10	-
27	.14s	.43s	-	.13	T	-	T	.03	-	-	.03	-
28	.13s	-	-	-	-	.05	.14	.52	-	-	T	-
29	.15s	-	.35	-	-	.02	T	.47	.52m	-	-	-
30	.06s	-	-	.02	-	-	-	.24	.08s	-	-	-
31	-	-	-	-	.11	-	-	.01	-	-	-	.01s
T Rain	-	-	-	1.97	3.49	2.70	1.56	6.33	1.87	1.25	T	-
O Snow	1.57	1.08	1.00	1.71	.02	-	-	-	.10	.26	1.14	.84
L Precip.	1.57	1.08	1.00	3.68	3.51	2.70	1.56	6.33	1.97	1.51	1.14	.84

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 8 Daily precipitation for 1975 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	.01s	-	.04s	-	.15	-	.34	.16	-	-	-	-
2	.10s	-	-	-	.14	.17	-	-	.01	-	-	-
3	-	.27s	-	-	.02	-	-	T	-	-	-	.20s
4	.01s	.03s	.12s	-	T	.46	-	-	.07	.04s	-	-
5	.15s	-	Ts	-	-	.24	T	-	.03	.05s	-	-
6	.03s	Ts	.03s	-	-	-	-	T	.94	-	-	-
7	Ts	-	-	-	-	-	-	.19	.12	-	.01r	-
8	-	-	-	-	-	-	.10	-	-	.02s	-	-
9	.34s	-	-	-	-	.16	-	.03	-	.12s	-	Ts
10	1.07s	Ts	-	-	-	-	T	.10	.37	-	Ts	-
11	.29s	.10s	.03s	-	-	-	-	.17	.01	-	-	-
12	-	-	-	-	-	-	-	T	.07	-	Ts	.61s
13	-	.02s	-	-	.23	.14	-	.02	-	.35s	-	Ts
14	.02s	.04s	.15s	-	T	-	-	.16	-	.49s	-	-
15	.03s	Ts	-	Ts	-	-	-	.02	-	.01s	-	.08s
16	.04s	Ts	-	.12r	-	-	.02	-	-	-	-	.01s
17	Ts	.11s	.07m	.36r	.04	-	T	-	-	-	-	-
18	-	Ts	-	.12m	.02	-	.03	-	.49	-	.51s	.02s
19	.13s	.10s	-	-	-	.94	.12	-	.45	-	.16s	.03s
20	.06s	.10s	.19s	-	.23	.81	-	1.09	.04	-	-	-
21	-	.20s	.02m	-	-	.89	.02	-	-	-	-	-
22	.03s	.02m	Ts	-	1.34	.76	.07	.97	.12	.15s	-	Ts
23	.06s	-	-	-	.02	-	.04	.07	T	Ts	-	.02s
24	.39s	.13s	-	-	-	-	.02	.13	-	.96m	-	.02s
25	-	.07s	-	-	.10	-	.27	.03	-	.05	-	-
26	-	.01s	.43s	-	-	.01	.01	.06	-	-	Ts	-
27	-	Ts	.61s	.12r	-	-	-	.06	-	.05	Ts	-
28	-	Ts	.26s	-	-	.08	T	-	-	.01	.13s	.04s
29	-	-	-	-	-	1.09	-	-	.05	-	.01s	Ts
30	-	-	-	.11r	.03	-	-	T	.02	-	-	Ts
31	-	-	-	-	.09	-	.43	.51	-	-	-	-
T Rain	-	-	-	.77	2.41	5.75	1.47	3.77	2.79	1.60	.01	-
T Snow	2.76	1.20	1.95	.06	-	-	-	-	-	.70	.81	1.03
A Precip.	2.76	1.20	1.95	.83	2.41	5.75	1.47	3.77	2.79	2.30	.82	1.03

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 9 Daily precipitation for 1976 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	.10s	-	.01s	T	-	-	-	-	-	-	-	-
2	.05s	.01s	.48s	-	.18s	-	-	-	.05	-	.11s	-
3	-	.01s	Ts	-	-	-	-	-	.10	.31	.05s	.02s
4	Ts	-	-	-	-	-	-	-	-	-	-	Ts
5	.15s	Ts	.02s	-	-	-	-	-	-	-	-	.06s
6	-	-	.02s	-	-	.23	T	-	-	Ts	-	-
7	Ts	.03s	.01s	-	-	T	-	-	.05	.12s	-	-
8	.03s	-	-	-	-	.01	.02	-	-	.07s	.03s	-
9	.01s	-	Ts	-	-	.49	-	1.93	-	-	.01s	.38s
10	.10s	.01s	-	-	-	-	-	-	-	-	Ts	.20s
11	.15s	Ts	.12s	-	-	.43	-	-	-	-	-	.01s
12	.04s	.01s	-	-	.04	.31	.19	-	.52	-	-	-
13	T	-	.11s	-	.45	.63	.09	-	.01	.11	-	.11s
14	-	-	.03s	.30	.01	-	-	-	-	.11s	-	-
15	-	Ts	.08s	.75	.09	-	.05	-	-	.04s	-	Ts
16	-	-	.35	-	.01	-	-	-	-	Ts	-	-
17	-	.19s	.04s	-	-	.31	T	-	-	-	.03s	-
18	.11s	.01s	-	.02s	-	.28	-	.42	.06	.01s	.03s	-
19	.02s	.10s	.04r	-	-	-	-	.24	-	.15s	.07s	.01s
20	.02s	-	.16s	.14s	-	-	-	-	-	.09s	.07s	-
21	.01s	.01s	.01s	T	-	-	-	-	.19	.01s	.02s	.12s
22	.09s	-	-	-	-	-	.15	-	.01	-	.01s	.03s
23	.01s	-	-	-	-	-	-	-	-	-	Ts	.04s
24	Ts	-	.04s	-	-	-	.01	-	-	-	.01s	-
25	.11s	-	.16s	-	-	1.90	.01	-	.15	Ts	.01s	.02s
26	-	-	.06s	-	-	.39	-	.48	-	-	.01s	.06s
27	.12s	.31s	-	-	-	.12	.20	.11	-	-	.01s	-
28	.04s	.27s	.22r	-	-	.01	-	-	-	-	-	.11s
29	.29s	-	-	.08	-	-	.03	-	-	-	-	-
30	.04s	-	-	.03	-	-	-	.01	-	-	.04s	-
31	.09s	-	-	-	-	-	-	-	-	-	-	.01s
T Rain	-	-	.26	1.51	.59	5.12	.77	3.19	1.14	.42	-	-
T Snow	1.58	.96	1.35	.16	.18	-	-	-	-	.60	.51	1.18
A Precip.	1.58	.96	1.61	1.67	.77	5.12	.77	3.19	1.14	1.02	.51	1.18

r = rain s = snow m = rain + snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 10 Daily precipitation for 1977 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	-	.12s	-	-	-	-	T	-	-	-	Tr	.10s
2	.07s	.09s	-	-	-	-	.18	.17	T	-	-	-
3	-	.01s	-	.02s	-	-	-	.04	.21	-	-	-
4	-	-	.01s	-	-	.02	T	.09	T	.09	-	.12s
5	.12s	-	-	T s	1.37	.57	.19	.04	.05	.08	-	.10s
6	-	-	-	.08s	-	.04	-	.01	-	-	-	-
7	-	.02s	-	-	-	.17	.01	.17	.06	.03	.02r	.08s
8	-	-	-	-	-	-	-	-	1.17	T	1.77m	.12s
9	-	-	-	-	.37	.03	-	.02	.59	T	1.80s	-
10	-	.01s	-	Ts	.12	.20	.01	.06	.05	.04	-	-
11	-	.06s	Tr	-	-	-	.60	.07	-	T	-	.37s
12	.03s	.03s	.43r	-	-	.15	.03	.05	-	-	-	.05s
13	.04	.02s	.02r	-	-	.68	.35	.02	.16	-	-	-
14	.02s	-	Tr	-	.13	.75	-	.01	-	-	-	-
15	-	-	.08s	-	T	.49	-	.07	-	-	.39m	-
16	-	.04s	Ts	.08r	-	-	-	.22	-	-	.51s	.03r
17	.02s	.01s	.01s	.05r	.07	.79	-	-	-	.08	.07s	.16s
18	.04s	-	.04s	-	.26	.03	.02	.04	.07	-	-	.10r
19	.10s	-	.01s	.01r	.75	.30	.14	.03	-	-	.39s	.04s
20	-	-	-	-	.09	-	-	.03	-	-	1.84s	.08s
21	-	-	.02s	-	.02	-	-	.11	-	-	.02s	-
22	.20s	-	.10s	-	.50	-	-	.06	-	-	.04s	.01s
23	.03s	.74s	-	-	-	-	.07	.01	.35	-	.02s	.01s
24	.07s	.28s	-	-	-	-	.07	-	.52	-	-	.03s
25	.23s	.13s	-	-	-	.11	-	.69	.10	-	-	.03s
26	Ts	Ts	.32r	Tr	.61	T	-	.19	.02	-	-	-
27	.05s	-	-	-	.01	.17	-	.51	.10	-	.01s	.03s
28	.06s	-	-	-	.18	.15	.26	.02	-	-	-	-
29	.06s	-	.57s	-	.11	.52	.38	.16	-	-	.16s	-
30	.01s	-	.10s	.14r	.36	.38	.63	.10	-	.34	.02s	-
31	.01s	-	-	-	.28	-	.01	.10	-	.07	-	-
T Rain	-	-	.77	.28	5.23	5.55	2.95	3.09	3.45	.73	.37	.13
T Snow	1.16	1.56	.95	.17	-	-	-	-	-	-	6.69	1.33
A Precip.	1.16	1.56	1.72	.45	5.23	5.55	2.95	3.09	3.45	.73	7.06	1.46

r = rain s = snow m = rain - snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water

Table 11 Daily precipitation for 1978 from the Rawson Lake meteorological station (Station 1).

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	.13s	-	-	-	-	.14	-	.81	.05	-	T	-
2	.01s	-	T	.22s	-	-	-	.24	.02	-	-	-
3	.03s	.10s	-	-	-	.01	-	.05	T	.05r	.02r	.06s
4	.00s	.01s	-	-	-	-	.79	-	-	.09r	.03r	.13s
5	.12s	-	-	.22s	-	.04	-	-	.01	.05r	T	T
6	.13s	-	-	.06r	-	.35	.09	.04	-	.01r	-	-
7	.08s	-	-	-	.44	-	-	-	-	-	-	-
8	-	-	-	.46r	.10	.11	.22	.02	-	-	-	-
9	-	-	T	.22rs	T	-	.06	-	-	-	-	-
10	-	.01s	-	.06rs	.12	-	-	.06	-	-	-	-
11	-	-	-	.27s	.02	-	.36	-	-	.10r	T	.01s
12	-	-	-	.05s	T	-	.06	.02	.46	.01r	.50s	.06s
13	-	.02s	-	-	-	-	.43	.09	.98	-	.38s	.02s
14	.06s	.03s	.01s	-	-	-	-	.06	.19	.34r	T	.01s
15	.05s	-	.01s	-	-	-	.01	.75	.06	.05r	T	-
16	-	.00s	-	-	-	-	-	-	.15	.01r	-	T
17	.03s	.02s	-	-	-	.01	.49	.89	-	-	-	-
18	-	-	.15s	-	-	-	-	.02	-	-	.16s	-
19	-	-	.19s	-	.12	.11	.38	-	.04	-	.03s	.26sr
20	-	-	-	-	-	.02	-	-	-	-	.01s	-
21	-	-	.07s	-	-	-	-	-	-	.07s	-	.21s
22	-	.01s	-	-	.51	-	.39	.04	-	.02s	.12s	-
23	.01s	.08s	-	-	-	.25	-	.05	-	-	.04s	-
24	.08s	.08s	-	-	-	.42	-	.01	-	.04r	.03s	-
25	-	-	-	-	1.46	T	-	T	-	.01r	-	.06s
26	-	-	-	-	.20	.25	.08	-	.02	.05r	.36s	-
27	-	-	-	-	-	.15	.03	.49	.03	-	.06s	-
28	-	-	-	-	-	-	.01	.01	.39	-	.23	.32s
29	-	-	-	-	.61	-	-	.02	.01	-	-	.05s
30	.02s	-	-	-	.11	-	.41	-	.01	-	-	-
31	-	-	.97s	-	.50	-	.12	.29	-	-	-	-
T Rain	-	-	-	.84	4.26	1.86	3.93	3.96	2.62	.81	.05	.03
T Snow	.78	.41	1.40	.72	-	-	-	-	.09	1.93	1.17	-
A Precip.	.76	.41	1.40	1.50	4.28	1.86	3.93	3.96	2.62	.90	1.98	1.20

r = rain s = snow m = rain - snow

Data refers to precipitation day from 8:00 am to 8:00 am (CST)

Units are inches of water.

Table 12 Recording rain gauge data for the Experimental Lakes Area for 1969.

12

Station: Met. Site Station #1		Gauge: Tipping bucket		Month: JUNE		Year: 1969																			
Corrected Hourly Precipitation Amounts (hundredths of inches)																									
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
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27																									
28																									
29																									
30																									
31																									
This station set up June 26, 1969.																									

Notes: Time is local standard time. (LST)
All values have been corrected to the standard gauge.

TOTAL (0.25)

Station: Met. Site Station #1		Gauge: Tipping bucket		Month: JULY		Year: 1969																			
Corrected Hourly Precipitation Amounts (hundredths of inches)																									
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
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30																									
31																									

Notes: Time is local standard time. (LST)
All values have been corrected to the standard gauge.

TOTAL 5.13

Table 12 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1969.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: AUGUST				Year: 1969								
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										
2																										
3																										
4		.13	.01		.01																					
5																										
6																										
7																										
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31																										

Notes: Time is local standard time. (LST)

All values have been corrected to the standard gauge.

TOTAL 5.29

Table 12 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1969.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: SEPTEMBER				Year: 1969								
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										
2																										
3																										
4																										
5																										
6		.02																								
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21		.10	.04																							
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										

Notes: Time is local standard time. (LST)

All values have been corrected to the standard gauge.

* recording gauge inoperative, standard gauge value used.

TOTAL 3.50

Table 12 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1969.

Station: <u>Hec. Sice Station #1</u>						Gauge: <u>Tipping bucket</u>												Month: <u>OCTOBER</u>				Year: <u>1969</u>				
						Corrected Hourly Precipitation Amounts (hundredths of inches)																				
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																										
1	.01	.03	.05	.01	.04				.01																.21	
2		.01																							.01	
3				.02	.03																				.05	
4	.07		.01						.01																.57	
5	.02		.03	.16	.09	.05	.06		.04	.01	.04	.01			.01	.01	.01								.54	
6					.01																				.06	
7								.01	.01	.02															.11	
8									.01																	.01
9																										.02
10	.02	.06	.04	.01		.02	.01																		.03	
11																										.16
12																										
13																										
14																										.03
15		.01	.01	.01					.01																.04	
16																										
17																										
18																										
19																										
20																										
21																										
22																										.01
23																										
24																										
25																										.04
26																										
27																										
28																										
29																										
30																										
31																										

Notes: Time is local standard time. (LST)

All values have been corrected to the standard gauge.

TOTAL 2.20

Table 13 Recording rain gauge data for the Experimental Lakes Area for 1970.

15

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: MAY

Year: 1970

Corrected Hourly Precipitation Amounts (hundredths of inches)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									.01
4																									.11
5																									.01
6																									.01
7																									.01
8																									.13
9	.02	.01	.01		.05	.06	.01																	.16	
10																									.01
11																									.28
12																									
13																									.42
14																									.28
15																									
16																									
17																									
18																									
19																									
20																									.27
21	.01	.04																							.01
22																									
23																									
24																									
25		.07	.22	.13	.02		.01																	1.05	
26																									.05
27																									
28																									.15
29																									.23
30																									
31																									.23

*recording gauge inoperative, standard gauge values used.

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

TOTAL 3.51

Table 13 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1970.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: JUNE

Year: 1970

Corrected Hourly Precipitation Amounts (hundredths of inches)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									.51
11																									.02
12																									
13																									
14																									
15																									
16																									
17	.03																								
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

TOTAL 3.49

Table 13 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1970.

Station: Met. Site Station #1

Gauge: Tipping Bucket

Month: JULY

Year: 1970

Corrected Hourly Precipitation Amounts (hundredths of inches)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									.25
3																									.03
4																									
5																									.23
6																									
7																									
8																									
9																									
10																									
11																									
12																									.32
13																									.06
14																									
15																									
16																									
17																									
18																									.48
19																									
20																									
21																									
22																									
23																									
24																									.06
25																									.01
26																									
27																									
28																									
29																									1.06
30																									
JULY	.01	.01	.01																						.03

Table 13 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1970.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: AUGUST

Year: 1970

Corrected Hourly Precipitation Amounts (hundredths of inches)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									.17
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									
																									2.58

Notes:

Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 13 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1970.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: SEPTEMBER				Year: 1970								
HOUR	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
	1																									
	2																									
	3																									
	4																									
	5																									
	6																									
	7	.01	.01	.12	.89	.22	.02			.01		.34			.23	.18	.18	.02								.23
	8																									.11
	9																									.04
	10																									.02
	11																									.02
	12	.05	.02	.01		.01				.01		.08	.02	.04												.25
	13																									
	14																									
	15																									.62
	16																									
	17																									
	18																									
	19																									
	20																									.06
	21																									.06
	22	.03	.02	.02	.01	.01	.01	.01																	.11	
	23																									
	24																									
	25																									.09
	26																									.08
	27																									
	28																									
	29																									
	30																									
	31																									
																										TOTAL 5.38

Notes:
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: OCTOBER				Year: 1970								
HOUR	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
	1																									
	2																									
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9																									
	10																									
	11																									
	12																									
	13	.01	.01	.02	.02	.06	.04	.03		.01															.28	
	14																									.04
	15																									
	16																									
	17																									
	18																									
	19																									
	20																									
	21																									
	22																									
	23																									
	24																									
	25	.09																								.13
	26	.01	.01																							.02
	27	.06	.16	.18	.16	.11	.17	.07	.01	.08	.12	.01	.01	.03												1.17
	28																									.40*
	29																									.10*
	30																									.22
	31	.04	.04	.03																						.36
																										TOTAL 4.89

Notes: *Times unavailable due to snow and freezing precipitation, standard gauge values used.

Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 14 Recording rain gauge data for the Experimental Lakes Area for 1971.

Station: Met. Site Station #1Gauge: Tipping bucketMonth: MAYYear: 1971

Corrected Hourly Precipitation Amounts (hundredths of inches)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									.04*
3																									
4																									
5																									
6																									
7																									.07*
8																									
9																									
10																									.07
11																									.01
12																									
13																									
14																									
15																									.07
16																									
17																									.40
18																									
19																									.13
20	.02	.02						.01	.02															.08	
21																									
22																									.61
23	.03																								.11
24	.01																								.81
25	.01																								.02
26																									
27																									
28																									
29																									.05
30																									
31																									

TOTAL 2.47

Notes: *Standard gauge value used, times unavailable.

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 14 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1971.

Station: Met. Site Station #1Gauge: Tipping bucketMonth: JUNEYear: 1971

Corrected Hourly Precipitation Amounts (hundredths of inches)

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5	.05	.16																							.42
6		.01																							1.09
7																									.01
8																									
9																									
10																									.11
11																									
12	.04	.06	.03	.02																					.17
13																									
14																									
15																									
16																									
17																									
18																									
19																									.39
20																									
21																									
22	.01																								
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

TOTAL 5.77

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 14 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1971.

Station: Met Site Station #1		Gauge: Tipping bucket		Month: JULY		Year: 1971																				
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																										
1	.12	.03																								.15
2																										
3																										.12
4																										
5																										
6																										
7																										.03
8																										
9																										
10																										.08
11																										.01
12																										.97
13																										.10
14																										
15																										.22
16																										.01
17																										
18																										
19																										
20																										
21																										
22																										.05
23																										
24																										
25																										.43
26																										.41
27																										.19
28																										.72
29																										.07
30																										
31																										.04
																										TOTAL 3.62

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Station: Met. Site Station #1		Gauge: Tipping bucket		Month: AUGUST		Year: 1971																				
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																										.03
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17	.35	.53	.15	.04	.02	.05	.15	.05																	L.14	
18																										
19																										.19
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										.02
																										TOTAL 2.10

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 14 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1971.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: SEPTEMBER

Year: 1971

Necessi

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 14 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1971.

Station: Mec. Slice Station #1

Gauge: Tipping bucket

Month: OCTOBER

Year: 1971

Notes: *recording gauge inoperative due to mixed precipitation, standard gauge value used.

Time (s) local standard time (LST)

All values have been corrected to the standard gauge.

Table 15 Recording rain gauge data for the Experimental Lakes Area for 1972.

Station: <u>Hec. Site Station #1</u>		Gauge: <u>Tipping bucket</u>																		Month: <u>MAY</u>		Year: <u>1972</u>			
		Corrected Hourly Precipitation Amounts (hundredths of inches)																							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6	.03		.01																						
7																									
8																									
9																									
10																									
11																									
12																									
13	.01	.01	.01	.05	.07	.07	.04	.01																	
14																									
15																									
16																									
17																									
18																									
19																									
20	.02																								
21																									
22																									
23	.09																								
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

TOTAL 2.06

Notes: *Standard gauge value.

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 15 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1972.

Station: <u>Hec. Site Station #1</u>		Gauge: <u>Tipping bucket</u>																		Month: <u>JUNE</u>		Year: <u>1972</u>			
		Corrected Hourly Precipitation Amounts (hundredths of inches)																							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29	.01																								
30																									
31																									

TOTAL 2.66

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 15 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1972.

Station:	Met. Site Station #1		Gauge:	Tipping bucket	Month:	JULY	Year:	1972																		
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
1																										
2																										
3																										
4																										
5																										
6																										
7															.01	.01	.01								.03	
8															.04	.26									.30	
9																										.13
10																										2.41
11																										.09
12																										.01
13																										.98
14																										.10
15																										.45
16																										.25
17																										.45
18																										.25
19																										.25
20																										.25
21																										.25
22																										.25
23																										.25
24																										.25
25																										.25
26																										.25
27																										.25
28																										.25
29																										1.02*
30																										
31																										
																										TOTAL 5.79

Notes: *Standard gauge value used, times unavailable.

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Station:	Met. Site Station #1		Gauge:	Tipping bucket	Month:	AUGUST	Year:	1972																		
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
1																										M
2																										M
3																										M
4																										M
5																										M
6																										M
7																										M
8																										M
9																										M
10																										M
11																										M
12																										M
13																										M
14																										M
15																										M
16																										M
17																										M
18																										M
19																										M
20																										M
21																										M
22																										M
23																										M
24																										M
25																										M
26																										M
27																										M
28																										M
29																										M
30																										M
31																										M
																										TOTAL (3.69)

Notes: M recording gauge inoperative Aug. 1-12. (3.69) is total for Aug. 13-31.

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 15 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1972.

Station: Met. Site Station #1		Gauge: Tipping bucket																		Month: SEPTEMBER		Year: 1972					
		Corrected Hourly Precipitation Amounts (hundredths of inches)																									
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																											
1																											
2																											
3																											
4	.08	.10	.18	.02	.03																					.09	
5																											.41
6																											1.59
7																											
8																											
9	.01	.02	.01	.01																							.05
10																											.01
11																											
12																											.10
13																											
14																											
15																											.02
16		.01	.02		.02	.02	.04	.07	.01																	.15	
17																											
18																											
19																											
20																											.01
21																											
22																											
23																											
24	.02	.01	.05	.05	.20	.03																				.53	
25																											.36
26																											.20*
27																											.05
28	.01	.01	.08	.12	.04	.04	.01																			.31	
29																											.02
30																											.05
31																											

TOTAL 4.18

Notes: *recording gauge inoperative due to mixed precipitation, standard gauge value used.
 Time is local standard time. (LST)
 All values have been corrected to the standard gauge.

Station: Met. Site Station #1		Gauge: Tipping bucket																		Month: OCTOBER		Year: 1972					
		Corrected Hourly Precipitation Amounts (hundredths of inches)																									
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																											
1																											
2	.05																										.25
3																											.01
4																											
5																											.03
6																											
7																											
8																											
9																											
10																											.11
11	.32	.01																									.13
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											
21																											
22																											
23																											
24																											
25																											
26																											
27	.03	.02	.07	.05	.04																						.29
28																											
29																											
30																											
31																											

TOTAL 1.10

Notes: *recording gauge inoperative due to mixed precipitation, standard gauge value used.
 Time is local standard time. (LST)
 All values have been corrected to the standard gauge.

Table 16 Recording rain gauge data for the Experimental Lakes Area for 1973.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: MAY

Year: 1973

Corrected Hourly Precipitation Amounts (hundredths of inches)

TOTAL 1.84

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 16 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1973.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: JUNE

Year: 1973

Corrected Hourly Precipitation Amounts (hundredths of inches)

TUTAI 3.68

Notes: *recording gauge inoperative, standard gauge value used.

Time is local standard time (LST).

All values have been corrected to the standard gauge.

Table 16 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1973.

Station: Met. Site Station #1		Gauge: Tipping bucket Month: JULY Year: 1973																									
		Corrected Hourly Precipitation Amounts (hundredths of inches)																									
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																											
1																											
2																											
3																											
4																											
5																											
6																											
7		Severe wind storm - power failure																								1.98*	
8																											.02
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											
21																											
22																											
23																											
24																											
25																											
26																											
27																											
28																											
29																											
30																											
31																											

TOTAL 5.28

Notes: * recording gauge inoperative due to power failure, standard gauge value used.

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 16 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1973.

Station: Met. Site Station #1		Gauge: Tipping bucket Month: AUGUST Year: 1973																								
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
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18																										
19																										
20																										
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22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										

TOTAL 3.17

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 16 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1973.

NOTES:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 16 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1973

MoE 91:

Time is local standard time (LST)

All values have been corrected to the standard gauge.

Table 17 Recording rain gauge data for the Experimental Lakes Area for 1974.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: MAY

Year: 1974

TOTAL 3.51

Notes: * recording gauge inoperative, standard gauge value used.

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 17 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1974

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: JUNE

Year: 1974

TOTAL 2,70

Noções:

Time is local standard time. (LST)

Table 17 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1974.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: JULY			Year: 1974									
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										
2																										
3																										.22
4																										.17
5																										
6																										
7																										
8		.01	.01																							.01
9																										.14
10																										
11																										
12																										.17
13																										
14																										
15																										
16																										.38
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										.01
25																										.01
26		.01	.01	.03	.01	.02																			.08	
27																										
28																										.13
29																										.01
30																										.01
31																										

TOTAL 1.56

Notes: *recording gauge inoperative, standard gauge value used.
Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: AUGUST			Year: 1974									
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										.26
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										.02
11																										.48
12																										.06
13																										
14																										
15		.43	.15																							.59
16																										.11
17																										
18																										.01
19																										.02
20																										.98
21																										.08
22																										.06
23																										
24																										
25																										.06
26																										
27																										.03
28																										.51
29																										.08
30																										.61
31																										.04

Notes:
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 17 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1974.

Station: Mac. Site Station #1

Gauge: Tipping bucket

Month: SEPTEMBER

Year: 1974

Corrected Hourly Precipitation Amounts (hundredths of inches)

TOTAL 1-89

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 17 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1974.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: OCTOBER

Year: 1974

Corrected Hourly Precipitation Amounts (hundredths of inches)

Missing data due to snow and freezing temperatures.

261

Note: *recording gauge inoperative due to snow, standard gauge value used.

Time is local standard time (EST).

Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 18 Recording rain gauge data for the Experimental Lakes Area for 1975.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: MAY			Year: 1975									
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																			.01	.04	.06		.03	.03	.06	.23
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										

TOTAL

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 18 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1975.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: JUNE			Year: 1975									
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
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13																										
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17																										
18																										
19																										
20																										
21																										
22																										
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24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										

TOTAL 5.75

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 18 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1975.

Station: Met. Site Station #1		Gauge: Tipping bucket													Month: JULY						Year: 1975					
Date		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1																										.34
2																										
3																										
4																										
5																										
6																										
7																										
8																										.10
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										.02
17																										
18																										.03
19																										
20																										
21																										.02
22																										.06
23																										.04
24																										.01
25																										.02
26																										.28
27																										
28																										
29																										
30																										
31																										.39
																										TOTAL 1.43

Notes:
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 18 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1975.

Station: Met. Site Station #1		Gauge: Tipping bucket													Month: AUGUST						Year: 1975					
Date		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
1		.01																								.20
2																										
3																										
4																										
5																										
6																										
7																										
8																										.19
9																										.03
10																										.27
11																										
12																										
13																										
14																										.18
15																										.02
16																										
17																										
18																										
19																										
20																										1.07
21																										.02
22																										
23																										1.04
24																										.01
25																										.15
26																										.05
27																										.07
28																										
29																										
30																										
31																										.51
																										TOTAL 3.81

Notes:
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 18 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1975.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: SEPTEMBER

Year: 1975

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 18 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1975.

Station: Met. Site Station #1

Gauge: Tipping bucket

Month: OCTOBER

Year: 1975

(1.55) is total from October 1 to 24th.

Notes: Recording gauge data unavailable October 25 to 31st due to snow and freezing precipitation.

Time is local standard time, (LST)

All values have been corrected to the standard gauge.

TOTAL (1.55)

Table 19 Recording rain gauge data for the Experimental Lakes Area for 1976.

Station: <u>Met. Site Station #1</u>		Gauge: <u>Tipping bucket</u>													Month: <u>MAY</u>				Year: <u>1976</u>							
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
	1																									
	2																									.18
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9																									
	10																									
	11																									
	12																									
	13																									.49
	14																									
	15																									.10
	16																									
	17																									
	18																									
	19																									
	20																									
	21																									
	22																									
	23																									
	24																									
	25																									
	26																									
	27																									
	28																									
	29																									
	30																									
	31																									

Notes: *recording gauge inoperative due to snow, standard gauge value used.
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

TOTAL .77

Station: <u>Met. Site Station #1</u>		Gauge: <u>Tipping bucket</u>													Month: <u>JUNE</u>				Year: <u>1976</u>							
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
	1																									
	2																									
	3																									
	4																									
	5																									
	6																									
	7	.06	.01																							.16
	8																									
	9																									
	10																									
	11																									
	12																									
	13																									
	14																									
	15																									
	16																									
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	23																									
	24																									
	25																									
	26																									
	27																									
	28																									
	29																									
	30																									
	31																									

Notes:
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

TOTAL 5.12

Table 19 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1976.

Station: <u>Met. Site Station #1</u>		Gauge: <u>Tipping bucket</u>												Month: <u>JULY</u>				Year: <u>1976</u>								
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
	1																									
	2																									
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9	.02																								
	10																									
	11																									
	12																									
	13		.16	.03																					.28	
	14																									
	15																								.05	
	16																									
	17																									
	18																									
	19																									
	20																									
	21																									
	22																									
	23																									
	24																									
	25																								.04	
	26																									
	27																									
	28		.09	.06	.02																			.20		
	29																								.01	
	30																									
	31																									
																									TOTAL .77	

Notes:
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Station: <u>Met. Site Station #1</u>		Gauge: <u>Tipping bucket</u>												Month: <u>AUGUST</u>				Year: <u>1976</u>								
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
	1																									
	2																									
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9																									
	10		.01																						.01	
	11																									
	12																									
	13																									
	14																									
	15																									
	16																									
	17																									
	18																									
	19		.04	.35	.03																				.46	
	20			.01	.11	.08																			.20	
	21																									
	22																									
	23																									
	24																									
	25																									
	26																									
	27		.23	.09	.12	.01	.03																		.34	
	28		.02	.03																					.05	
	29																									
	30																									
	31																									
																									TOTAL .319	

Notes:
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 19 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1976.

Station: <u>Met. Site Station #1</u>		Gauge: <u>Tipping bucket</u>																	Month: <u>SEPTEMBER</u>			Year: <u>1976</u>			
		Corrected Hourly Precipitation Amounts (hundredths of inches)																							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																				.04	.01				.05
3																			.01	.01	.08				.10
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13	.17	.17																							
14																									
15																									
16																									
17																									
18																									
19	.01																								
20																									
21																									
22	.03	.08	.05	.01																					.01
23																									.19
24																									
25																									.14
26	.01																								.01
27																									
28																									
29																									
30																									
31																									

TOTAL 1.14

Notes: Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 19 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1976.

Station: <u>Met. Site Station #1</u>		Gauge: <u>Tipping bucket</u>																	Month: <u>OCTOBER</u>			Year: <u>1976</u>			
		Corrected Hourly Precipitation Amounts (hundredths of inches)																							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
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24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									

*recording gauge inoperative due to snow, standard gauge value used.

Notes: Precipitation after 14:00 is snow.
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

TOTAL

Table 20 Recording rain gauge data for the Experimental Lakes Area for 1977.

Notes: * Standard gauge value used

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 20 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1977.

54

Time is local standard time (IST)

All values have been corrected to the standard gauge.

Table 20 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1977.

Station: Met. Site Station #1		Gauge: Tipping bucket		Month: JULY		Year: 1977																				
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1	.01																									.01
2																										.18
3																										
4																										
5																										.18
6																										.01
7																										
8	.01																									.01
9																										
10																										
11																										.60
12																										.04
13																										.34
14	.01																									.01
15																										
16																										
17																										
18																										.02
19																										.14
20																										
21																										
22																										
23																										.07
24																										.07
25																										
26																										
27																										
28																										
29																										
30	.03	.02																								.05
31	.01																									.04
																										TOTAL 2.96

Notes:

Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 20 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1977.

Station: Met. Site Station #1		Gauge: Tipping bucket		Month: AUGUST		Year: 1977																				
		Corrected Hourly Precipitation Amounts (hundredths of inches)																								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										.02
2																										.19
3																										.09
4																										.03
5																										.03
6																										.02
7																										.16
8																										.01
9																										.01
10	.01																									.05
11																										.08
12																										.05
13																										.02
14																										.01
15																										.03
16	.01	.01																								.24
17																										.01
18																										.04
19																										.03
20																										.03
21																										.05
22	.03	.03																								.11
23																										.02
24																										.67
25																										.21
26																										.35
27																										.18
28	.02	.02	.03	.01	.02	.05	.01																		.14	
29																										.12
30	.02																									.10
31																										
																										TOTAL 3.09

Notes:

Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 20 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1977.

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

TOTAL 3,45

Table 20. (cont'd.) Recording rain gauge data for the Experimental Lakes Area for 1977.

Notes: Recording gauge inoperative due to weak battery, standard gauge value used.

Time is local standard time (LST).

All values have been corrected to the standard gauge.

TOTAL .67

Table 21 Recording rain gauge data for the Experimental Lakes Area for 1978.

Station: Met. Site Station #1		Gauge: Tipping bucket		Month: MAY		Year: 1978																			
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
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12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24	3.8	.6																							
25																									
26																									
27																									
28																									
29																									
30																									
31																									
Gauge Activated May 30.																									
																									TOTAL
																									5.3

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

TOTAL

Station: Met. Site Station #1		Gauge: Tipping bucket		Month: JUNE		Year: 1978																			
Corrected Hourly Precipitation Amounts (tenths of millimeters)																									
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																									
1	2.4	1.9			.8	.2	2.2	.2	.2	1.4	.8	.6	.2											11.5	
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20		.6			.3	.3				.2	.2					.1									
21																									
22																									
23																									
24	3.8	.6																							
25																									
26																									
27																									
28																									
29																									
30																									
31																									
																									TOTAL 55.2

Notes:

Time is local standard time. (LST)

All values have been corrected to the standard gauge.

Table 21 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1978.

Station: Met. Site Station #1		Gauge: Tipping bucket	Month: JULY																				Year: 1978			
		Corrected Hourly Precipitation Amounts (tenths of millimeters)																								
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																										
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9	.4																									
10																										
11																										
12																										
13																										
14	7.3	.1	.5																							
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										

Notes: TOTAL 99.2
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 21 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1978.

Station: Met. Site Station #1		Gauge: Tipping bucket	Month: AUGUST																				Year: 1978			
		Corrected Hourly Precipitation Amounts (tenths of millimeters)																								
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	
Date																										
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9	.2		.8																							
10																										
11																										
12																										
13																										
14																										
15	.7	.2	.5																							
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										

Notes: Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 21 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1978.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: SEPTEMBER				Year: 1978								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										8.6
2																										.4*
3																										.1
4																										
5																										
6																										.2
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14	2.1	1.7	.2	.2	.6	.8																			9.8	
15																										.2
16																										.7
17																										.2
18																										
19																										1.0
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										
																										TOTAL 73.9

Notes: *recording gauge malfunction, standard gauge value used.
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 21 (cont'd) Recording rain gauge data for the Experimental Lakes Area for 1978.

Station: Met. Site Station #1		Gauge: Tipping bucket												Month: OCTOBER				Year: 1978								
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL
Date																										
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12	.2	.2	.2																							0.8
13																										
14																										
15	.6	.6	.2	.9	.4																					
16																										
17																										
18																										
19																										
20																										
21																										
22	.2	1.1	.4																							2.3
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										
																										TOTAL 23.0

Notes: Recording gauge shut down for season November 1.
Time is local standard time. (LST)
All values have been corrected to the standard gauge.

Table 22 Precipitation data in inches for 1970 from standard weekly rain gauges in the Experimental Lakes Area. All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5*	6	7*	8*	9	10	11
May 19	1.01	0.75	0.68	0.76	0.75	0.80	x	x	x	x	x
26	1.45	1.33	1.28	1.36	1.45	1.40	1.38	x	x	x	x
June 2	0.64	0.55	0.68	0.63	0.61	0.63	0.68	x	x	x	x
9	0	0	0	0	0	0	0	x	x	x	x
16	0.67	0.49	0.49	0.51	0.82	0.64	0.92	x	x	x	x
23	1.43	1.37	1.31	1.36	1.42	1.51	1.53	x	x	x	x
30	0.82	0.85	0.91	0.98	0.86	0.91	0.85	x	x	x	x
July 7	1.05	1.12	1.04	1.10	1.22	1.24	1.14	x	x	x	x
14	0.37	0.39	0.38	0.38	0.42	0.46	0.46	x	x	x	x
21	0.54	0.55	0.53	0.56	0.59	0.60	0.55	0.53	x	x	x
28	0.07	0.09	0.06	0.07	0.09	0.09	0.06	0.07	x	x	x
Aug. 4	1.09	1.00	0.92	0.99	1.15	1.16	m	1.12	x	x	x
11	0.17	0.14	0.12	0.19	0.13	0.12	0.18	0.18	x	x	x
18	0.24	0.22	0.20	0.23	0.27	0.27	0.27	0.29	x	x	x
25	1.06	1.01	1.14	1.10	1.19	1.25	1.19	1.19	x	x	x
Sept. 1	1.11	0.97	0.96	m	0.96	0.98	1.01	1.15	x	x	x
8	2.32	2.66	2.85	2.83	2.75	2.62	2.81	2.71	x	x	x
15	1.68	1.57	1.65	1.70	1.61	1.63	1.65	1.73	x	x	x
22	0.73	0.52	0.55	0.55	0.58	0.60	0.60	0.55	x	x	x
29	0.29	0.28	0.31	0.31	0.31	0.32	0.31	0.32	x	x	x
Oct. 6	0.25	0.25	0.27	0.27	0.35	0.29	0.28	0.23	x	x	x
13	f	f	f	f	f	f	f	x	x	x	x

Gauges are read Tuesday morning.

Values have been corrected and apply to a standard weekly interval from Monday midnight to the following Monday midnight.

(ie: value for June 2, Stat. 1, = 0.64 in. applies to the period 0:00 hrs., Tuesday, May 26 to 24:00 hrs., Monday, June 1).

m=missing value

x=not in service

f=frozen

*recording rain gauge station

Table 23 Precipitation data in inches for 1971 from standard weekly rain gauges in the Experimental Lakes Area. All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5*	6	7*	8*	9	10	11
May 18	0.48	0.45	0.45	0.47	0.49	0.51	0.49	0.48	x	x	x
25	1.74	1.73	1.74	1.86	1.81	1.89	1.78	1.84	x	x	x
June 1	0.07	0.08	0.10	0.07	0.12	0.15	0.06	0.06	x	x	x
8	1.54	1.34	1.29	1.37	1.57	1.33	1.48	1.52	x	x	x
15	0.30	0.28	0.34	0.32	0.39	0.38	0.34	0.29	x	x	x
22	1.26	0.10	1.09	1.30	1.12	1.22	1.27	1.30	x	x	x
29	0.74	0.73	0.68	0.76	0.76	0.77	0.82	0.77	x	x	x
July 6	2.21	2.23	2.40	2.27	2.40	2.23	2.39	2.35	x	x	x
13	1.11	0.96	1.03	1.34	1.07	1.02	1.11	1.22	x	x	x
20	0.33	0.29	0.32	0.30	0.28	0.33	0.28	0.34	x	x	x
27	1.08	0.89	1.08	1.16	1.07	1.03	1.13	1.24	x	x	x
Aug. 3	0.86	0.77	0.83	0.84	0.89	0.85	1.01	0.92	x	x	x
10	0	0	0	0	0	0	0	0	x	x	x
17	0	0	0.01	0	0	0	0.01	0	x	x	x
24	1.53	1.50	1.51	1.43	1.57	1.65	1.50	1.48	x	x	x
31	0.52	0.50	0.56	0.58	0.58	0.64	0.43	0.45	x	x	x
Sept. 7	2.23	2.24	2.41	2.22	2.40	2.32	2.43	2.17	x	x	x
14	0.01	0	0.01	0.01	0	0	0	0	x	x	x
21	0.11	0.10	0.08	0.11	0.16	0.15	0.13	0.14	x	x	x
28	0.24	0.18	0.23	0.22	0.22	0.19	0.26	0.26	x	x	x
Oct. 5	3.27	3.21	3.37	3.27	3.14	3.21	3.48	3.41	x	x	x
12	0.44	0.41	0.45	0.45	0.44	0.48	0.43	0.46	x	x	x
19	1.28	1.32	1.38	1.26	1.46	1.46	1.23	1.32	x	x	x
26	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	x	x	x

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval from Monday midnight to the following Monday midnight.

(ie: value for June 1, Stat. 1, = 0.07 in. applies to the period 0:00 hrs., Tuesday, May 25 to 24:00 hrs., Monday, June 1).

x=not in service

*recording rain gauge station

Table 24 Precipitation data in inches for 1972 from standard weekly rain gauges in the Experimental Lakes Area.
All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to
the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5*	6	7*	8*	9	10	11
May 16	0.51	0.50	0.50	0.52	0.52	0.52	0.53	0.52	x	x	x
23	0.72	0.63	0.67	0.72	0.65	0.71	0.72	0.89	x	x	x
30	0.70	0.73	0.84	0.75	1.14	0.81	0.99	0.74	x	x	x
June 6	0.11	0.09	0.10	0.11	0.10	0.10	0.11	0.11	x	x	x
13	0.43	0.40	0.43	0.45	0.47	0.43	0.42	0.43	x	x	x
20	1.99	1.62	1.75	1.83	1.68	1.73	2.09	2.07	x	x	x
27	0	0	0	0	0	0	0	0	x	x	x
July 4	0.13	0.06	0.29	0.20	0.10	0.08	0.12	0.16	x	x	x
11	2.87	3.11	3.04	3.14	3.20	3.51	2.50	3.08	x	x	x
18	1.63	1.45	1.64	1.62	1.67	1.73	1.70	1.87	x	x	x
25	0.27	0.24	0.27	0.27	0.25	0.24	0.28	0.31	x	x	x
Aug. 1	1.02	1.14	1.07	1.05	0.83	0.85	1.09	0.97	x	x	x
8	0.58	0.50	0.51	0.59	0.57	0.55	0.58	0.64	x	x	x
15	0.33	0.35	0.33	0.32	0.40	0.28	0.40	0.38	x	x	x
22	3.69	3.32	3.17	3.28	3.44	3.24	3.73	3.88	x	x	x
29	0	0	0	0	0	0	0	0	x	x	x
Sept. 5	0.50	0.49	0.50	0.49	0.51	0.51	0.50	0.54	x	x	x
12	1.65	1.58	1.60	1.63	1.65	1.63	1.73	1.66	x	x	x
19	0.47	0.46	0.50	0.40	0.46	0.50	0.50	0.47	x	x	x
26	0.93	0.98	1.04	1.04	1.06	1.07	0.97	0.99	x	x	x
Oct. 3	0.88	0.86	0.95	0.95	0.92	0.96	0.89	0.93	x	x	x
10	0.05	0.05	0.04	0.05	0.07	0.07	0.05	0.05	x	x	x
17	0.47	0.44	0.46	0.48	0.44	0.46	0.48	0.48	x	x	x
24	0.02	0.03	0.03	0.05	0.03	0.03	0.04	0.04	x	x	x

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval
from Monday midnight to the following Monday midnight.

(ie: value for May 23, Stat. 1, = 0.72 in. applies to the
period 0:00 hrs., Tuesday, May 16 to 24:00 hrs. Monday, May 22).

x-not in service

*-recording station

Table 25 Precipitation data in inches for 1973 from standard weekly rain gauges in the Experimental Lakes Area.
All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to
the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5*	6	7*	8*	9	10	11
May 8	0.67	0.59	0.54	0.64	0.55	0.51	0.60	0.66	x	x	x
15	0.33	0.28	0.28	0.30	0.28	0.27	0.32	0.32	x	x	x
22	0.02	0.02	0.04	0.02	0.04	0.04	0.04	0.03	x	x	x
29	0.76	0.71	0.76	0.83	0.71	0.79	0.74	0.80	x	x	x
June 5	0.40	0.36	0.36	0.38	0.37	0.37	0.44	0.39	x	x	x
12	0.37	0.32	0.36	0.38	0.36	0.37	0.34	0.40	x	x	x
19	1.82	1.70	1.92	1.87	1.99	1.92	1.75	1.80	x	x	x
26	0.67	0.65	0.59	0.60	0.69	0.75	0.69	0.69	x	x	x
July 3	0.44	0.58	0.87	0.76	0.53	0.76	0.38	0.51	x	x	x
10	2.26	2.11	2.22	2.23	m	1.99	2.19	2.18	x	x	x
17	0.25	0.17	0.14	0.18	m	0.18	0.27	0.20	x	x	x
24	0.28	0.21	0.22	0.18	m	0.21	0.33	0.16	x	x	x
31	1.48	1.43	2.49	2.76	m	2.76	2.42	2.65	x	x	x
Aug. 7	0.35	0.31	0.99	0.92	0.70	0.78	0.77	0.87	x	x	x
14	1.00	1.66	1.25	1.45	1.33	1.39	1.33	1.48	x	x	x
21	0.30	0.31	0.34	0.33	0.32	0.34	0.28	0.30	x	x	x
28	0.06	0.04	0.06	0.06	0.08	0.09	0.05	0.06	x	x	x
Sept. 4	3.16								x	x	x
11	0.37								x	x	x
18	0.21	3.17	3.03	3.30	3.30	3.36	3.63	3.54	x	x	x
25	1.85	1.68	1.76	1.76	1.77	1.80	1.78	1.80	x	x	x
Oct. 2	0.51	0.52	0.53	0.57	0.55	0.55	0.54	0.56	x	x	x
9	0.64	0.48	0.62	0.59	0.58	0.61	0.58	0.69	x	x	x
16	1.73	1.63	1.27	2.03	1.75	2.02	1.53	1.81	x	x	x
23	0.06	0.06	0.06	0.07	0.08	0.08	0.08	0.08	x	x	x
30	0.13	0.13	0.14	0.14	0.14	0.16	0.15	0.14	x	x	x
Nov. 0	0.15	f	f	f	f	f	f	i	x	x	x

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval
from Monday midnight to the following Monday midnight.

(ie: value for May 15, Stat. 1, = 0.33 in. applies to the
period 0:00 hrs., Tuesday, May 8 to 24:00 hrs. Monday, May 14).

↑ value is for period indicated

m-missing

x-not in service

"=recording station

f-frozen

Table 26 Precipitation data in inches for 1974 from standard weekly rain gauges in the Experimental Lakes Area.
All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to
the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5*	6	7*	8*	9	10	11
May 7	0.24	x	0.20	x	x	x	x	x	x	x	x
14	1.78	1.46	1.69	1.76	x	1.89	x	x	x	x	x
22	1.37	1.43	1.47	1.55	1.43	1.47	1.36	1.37	x	x	x
28	0.03	0.05	0.05	0.05	0.05	0.05	0.07	0.06	x	x	x
June 4	0.15	0.13	0.17	0.18	0.21	0.22	0.19	0.19	x	x	x
11	2.13	2.13	2.32	2.17	2.17	2.32	2.13	2.19	x	x	x
18	0.44	x	0.45						x	x	x
25	0.02	x	0						x	x	x
July 2	0.07	x	0.07	0.50			0.54	0.50	x	x	x
9	0.75	x	0.73	0.75	0.96	1.12	0.55	0.81	x	x	x
16	0.17	x	0.18	0.17			0.18	0.17	x	x	x
23	0.38	x	0.33	0.36			0.39	0.38	x	x	x
30	0.26	x	0.30	0.31	0.96	1.05	0.26	0.33	x	x	x
Aug. 6	0.26	x	0.21	0.30	0.28	0.27		0.30	x	x	x
13	1.56	x	1.49	1.49	1.58	1.52	1.87	1.60	x	x	x
20	2.06	x	1.92	1.95			2.03	1.98	x	x	x
27	1.18	x	1.17	1.18	2.99	3.19	1.17	1.19	x	x	x
Sept. 3	1.35	x	1.20	1.20	1.24	1.27	1.28	1.32	x	x	x
10	0	x	0.06	0.05	0.13	0.16	0.14	0.02	x	x	x
17	0.82	x	0.77	0.81	0.84	0.83	0.72	0.88	x	x	x
24	0.41	x	0.42	0.44	0.46	0.46	0.44	0.43	x	x	x
Oct. 1	0.58	x	0.67	0.68	x	x	0.63	0.68	x	x	x
8	0.96	x	1.01	1.02	x	x	0.94	0.92	x	x	x
15	0.12	x	x	x	x	x	x	x	x	x	x

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval
from Monday midnight to the following Monday midnight.

(ie: value for May 14, Stat. 1, = 1.78 in. applies to the
period 0:00 hrs., Tuesday, May 7 to 24:00 hrs. Monday, May 13).

↑ value is for period indicated

x-not in service

* recording station

Table 27 Precipitation data in inches for 1975 from standard weekly rain gauges in the Experimental Lakes Area.
All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to
the same time interval.

Date of reading	Rain gauge station										
	1	2	3	4	5	6	7	8	9	10	11
May 13	0	x	x	x	x	x	x	x	x	x	x
20	0.29	x	0.29	0.28	x	x	x	0.07	x	x	x
27	1.69	x	1.72	1.77	x	x	x	1.88	x	x	x
June 3	0.29	x	0.30	0.27	x	x	0.37	0.32	x	x	x
10	0.78	0.75	0.83	0.81	x	x	0.73	0.79	x	x	x
17	0.22	0.18	0.18	0.20	0.22	x	0.20	0.27	x	x	x
24	3.40	3.09	3.21	3.20	3.28	x	3.63	3.17	x	x	x
July 1	1.18	1.16	1.37	1.30	1.17	x	1.13	1.21	x	x	x
8	0.34	0.39	0.21	0.28	0.35	x	0.34	0.30	x	x	x
15	0.10	0.09	0.04	0.09	0.19	x	0.16	0.09	x	x	x
22	0.19	0.17	0.12	0.15	0.19	x	0.22	0.23	x	x	x
29	0.41	0.41	0.41	0.41	0.52	x	0.43	0.43	x	x	x
Aug. 5	0.59	0.60	0.53	0.56	0.64	x	0.63	0.64	x	x	x
12	0.49	0.54	0.53	0.57	0.55	x	0.48	0.49	x	x	x
19	0.20	0.21	0.19	0.19	0.27	x	0.20	0.17	x	x	x
26	2.29	2.13	2.15	2.28	2.09	x	2.09	2.25	x	x	x
Sept. 2	0.63	0.60	0.60	0.60	0.60	x	0.61	0.64	x	x	x
9	1.17	1.03	0.99	1.08	1.12	x	1.12	1.18	x	x	x
16	0.45	0.36	0.46	0.60	0.39	x	0.31	0.56	x	x	x
23	1.09	0.95	0.95	1.05	1.17	x	1.27	1.13	x	x	x
30	0.04	0.02	0.03	0.04	0.03	x	0.03	0.09	x	x	x
Oct. 7	0.11	0.12	0.12	0.12	0.14	x	0.13	0.14	x	x	x
14	0.14	0.15	0.32	0.28	0.19	x	0.12	0.17	x	x	x
21	0.85	0.74	0.67	0.73	x	x	0.78	x	x	x	x
28	1.11	£	£	£	x	x	£	£	x	x	x

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval
from Monday midnight to the following Monday midnight.

(ie: value for May 20, Stat. 1, = 0.29 in. applies to the
period 0:00 hrs., Tuesday, May 13 to 24:00 hrs. Monday, May 19).

x-not in service

* recording station

£-frozen

Table 28 Precipitation data in inches for 1976 from standard weekly rain gauges in the Experimental Lakes Area.
All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to
the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5*	6	7*	8*	9	10	11
May 3	0.19	0.26	0.26	0.40	0.33	x	0.35	x	0.33	x	x
10	0	0	0	0	x	0	x	0	x	x	x
17	0.39	0.57	0.53	0.52	0.53	x	0.55	0.57	0.49	x	x
24	0	0	0	0	x	0	0	0	x	x	x
31	0	0	0	0	x	0	0	0	x	x	x
June 7	0.13	0.22	0.22	0.22	0.23	x	0.24	0.22	0.21	x	x
14	1.87	1.84	1.81	1.82	1.86	x	1.90	1.93	m	x	x
21	0.60	0.60	0.67	0.65	0.62	x	0.60	0.62	0.69	x	x
28	2.42	2.18	2.32	2.35	2.35	x	2.33	2.34	2.35	x	x
July 5	0	0	0	0	x	0	0	0	x	x	x
12	0.02	0.02	0.03	0.03	0.02	x	0.03	0.05	0.03	x	x
19	0.33	0.28	0.29	0.35	0.35	x	0.37	0.34	0.36	x	x
26	0.19	0.13	0.19	0.25	0.14	x	0.15	0.33	0.21	x	x
Aug. 2	0.23	0.26	0.21	0.25	0.29	x	m	0.25	0.32	x	x
9	1.92	1.96	2.18	1.95	1.85	x	2.00	2.00	2.22	x	x
16	0.01	0.01	0.04	0.04	0.03	x	0.02	0.03	0.04	x	x
23	0.66	0.62	0.68	0.62	0.72	x	0.69	0.62	0.72	x	x
30	0.60	0.51	0.61	0.61	0.54	x	0.58	0.61	0.65	x	x
Sept. 6	0.15	0.14	0.15	0.15	0.11	x	0.12	0.17	0.12	x	x
13	0.57	0.57	0.59	0.66	0.57	x	0.51	0.41	0.59	x	x
20	0.07	0.10	0.08	0.04	0.12	x	0.10	0.03	0.08	x	x
27	0.35	0.35	0.37	0.36	0.39	x	0.37	0.35	0.35	x	x
Oct. 4	0.31	0.32	0.31	0.31	0.32	x	0.31	0.32	0.27	x	x
11	0.19	x	0.17	x	0.15	x	0.19	0.18	x	x	x
18	0.27	x	x	x	x	x	x	x	x	x	x

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval

from Monday midnight to the following Monday midnight.

(ie: value for May 10, Stat. 1, = 0 in. applies to the period 0:00 hrs., Tuesday, May 3 to 14:00 hrs., Monday, May 9).

x-not in service

*-recording station

m-missing

Table 29 Precipitation data in inches for 1977 from standard weekly rain gauges in the Experimental Lakes Area.
All values have been corrected using recorded hourly rainfall at stations 1, 3, 5, 7 and 8 to apply to the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5	6	7*	8*	9	10	11
May 2	0.14	x	x	0.12	x	x	0.15	x	0.12	x	x
9	1.37	1.28	1.12	1.37	x	x	1.35	1.40	1.35	x	x
16	0.62	0.70	0.62	0.73	0.69	x	0.57	0.62	0.72	x	x
23	1.69	1.72	1.71	1.64	1.92	x	1.80	1.65	1.75	x	x
30	0.91	0.85	0.72	0.72	x	x	0.96	0.91	0.69	x	x
June 6	1.19	1.16	1.20	1.25	x	x	1.21	1.28	1.30	x	x
13	1.27	1.36	1.43	1.43	x	x	1.29	1.35	1.39	x	x
20	2.36	2.15	2.10	2.25	x	x	2.35	2.40	2.39	x	x
27	0.15	0.10	0.11	0.20	x	x	0.10	0.23	0.15	x	x
July 4	1.36	1.30	1.19	1.22	x	x	1.40	1.36	1.28	x	x
11	0.80	0.63	0.48	0.48	x	x	0.84	0.83	0.46	x	x
18	0.39	0.39	0.39	0.39	x	x	0.45	0.46	0.38	x	x
15	0.18	0.33	0.36	0.24	x	x	0.34	0.28	0.33	x	x
Aug. 1	1.23	1.35	1.36	1.26	x	x	1.32	1.32	1.38	x	x
8	0.52	0.46	0.40	0.45	x	x	0.51	0.46	0.44	x	x
15	0.23	0.30	0.32	0.27	x	x	0.32	0.34	0.32	x	x
22	0.51	0.44	0.50	0.52	x	x	0.47	0.52	0.56	x	x
29	1.36	1.47	1.38	1.42	x	x	1.61	1.60	1.36	x	x
Sept. 3	0.48	0.48	0.59	0.65	x	x	0.59	0.57	0.63	x	x
12	1.87	1.83	1.82	1.75	x	x	1.84	2.02	1.79	x	x
19	0.23	0.23	0.23	0.23	x	x	0.07	0.10	0.25	x	x
26	0.98	0.84	0.94	1.06	x	x	0.95	0.97	1.02	x	x
Oct. 3	0.11	0.11	0.11	0.11	x	x	0.14	0.14	0.11	x	x
10	0.24	0.17	0.22	0.25	x	x	0.28	0.29	0.26	x	x
17	0.08	0.08	0.08	0.08	x	x	0.09	0.08	0.08	x	x
24	0	0	0	0	x	x	0	0	0	x	x

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval

from Monday midnight to the following Monday midnight.

(ie: value for May 9, Stat. 1, = 1.37 in. applies to the period 0:00 hrs., Tuesday, May 1, to 14:00 hrs., Monday, May 3).

x-not in service

*-recording gauge

Table 30 Precipitation data in inches for 1978 from standard weekly rain gauges in the Experimental Lakes Area.
All values have been corrected using recorded hourly rainfall at stations 1, 3, 7, 8 and 10 to apply to
the same time interval.

Date of reading	Rain gauge station										
	1*	2	3*	4	5	6	7*	8*	9	10*	11
May 9	0.52	0.50	0.52	0.54	x	x	x	0.51	x	x	x
	16	0.14	0.19	0.19	0.20	x	x	0.24	0.26	0.25	0.29
	23	0.63	x	0.52	0.66	x	x	0.56	0.75	0.51	0.30
	30	2.16	x	2.31	2.26	x	x	2.06	2.13	2.54	2.24
June 6	0.94	x	0.84	0.96	x	x	x	0.98	0.96	0.90	0.92
	13	0.50	x	0.47	0.50	x	x	0.47	0.50	0.51	0.43
	20	0.08	x	0.03	0.06	x	x	0.06	0.11	0.05	0.08
	27	0.98	x	0.77	0.87	x	x	1.07	1.04	0.79	1.03
July 4	0.15	x	0.10	0.17	x	x	x	0.16	0.18	0.17	0.46
	11	1.16	x	1.28	1.22	x	x	1.12	1.07	1.30	0.93
	18	1.35	x	1.43	1.46	x	x	1.36	1.37	1.42	1.36
	25	0.77	x	0.75	0.78	x	x	0.82	0.80	0.81	0.71
Aug. 1	0.65	x	0.60	0.61	x	x	x	0.69	0.60	0.63	0.52
	8	1.14	x	0.97	1.10	x	x	1.17	1.00	1.00	0.32
	15	0.18	0.09	0.07	0.10	x	x	0.10	0.12	0.15	0.14
	22	1.73	1.56	1.71	1.59	x	x	1.65	1.68	1.68	1.67
Sept. 5	0.60	0.39	0.54	0.47	x	x	x	0.64	0.52	0.66	0.64
	12	0.37	0.31	0.32	0.33	x	x	0.31	0.32	0.32	0.35
	19	0.01	0	0	0.02	x	x	0	0	0	0.02
	26	1.85	1.72	1.60	1.80	x	x	1.80	1.78	1.62	1.96
Oct. 3	0.04	0.02	0.01	0.06	x	x	x	0.03	0.04	0.04	0.02
	10	0.65	0.61	0.62	0.64	x	x	0.58	0.62	0.62	0.66
	17	0.30	0.17	0.14	0.17	x	x	0.18	0.18	0.18	0.18
	24	0.52	0.49	0.50	0.44	x	x	0.52	0.46	0.49	0.54
31	0.09	0.07	0.04	0.05	x	x	x	0.13	0.05	↑ 0.05	0.12

Gauges are read Tuesday mornings.

Values have been corrected and apply to a standard weekly interval

from Monday midnight to the following Monday midnight.

(ie: value for May 16, Stac. 1, = 0.14 applies to the period 0:00 hrs., Tuesday, May 9 to 24:00 hrs. Monday, May 15).

↑ value is for period indicated

x-not in service

*=recording station

APPENDIX 2

SNOW SURVEY SUMMARY

This data section presents a summary of all snow survey results collected during the 1969 to 1978 period in the Experimental Lakes Area. Snow surveys were generally conducted in late February and late March each year to define the peak snow pack condition before ripening, and to provide an estimate of water available for spring runoff. As the winter progresses, the snow pack settles and ages. This aging process from a fine to a coarse crystalline state is known as ripening (Bruce and Clark, 1966). The density of fresh fallen snow usually ranges from 0.07 to 0.15, with an average of 0.10. Densities of ripe snow packs generally range between 0.3 and 0.6. Snow density is the ratio of the water equivalent of the snow pack to the depth of the snow pack (in/in). The water equivalent of the snow pack is the depth of water that would result from melting, and is dependent on the depth and the density. Additional snow data are given in Appendix 1 in the form of daily snow water equivalents measured with a shielded Nipher snow gauge at the meteorological site (Station 1). Snow survey data also provides a check on the accuracy of the accumulated daily Nipher gauge measurements.

The procedures used for all surveys were similar to those recommended in the Snow Survey Sampling Guide (1959) by the U.S. Department of Agriculture. The equipment used was a Mount Rose snow sampler. Basically it is an aluminium coring tube with a cutting edge having an inside diameter of 1.485 inches, so that a core weighing 1 ounce is equivalent to 1 inch of water. This allows the determination of snow pack water equivalents to be made gravimetrically in the field by weighing the tube before and after coring, using a small portable calibrated spring balance. Usually 6 to 10 sample points were selected randomly in the general area of the snow course locations show in Figure 2. Snow courses used were as follows:

1. Meteorological site
- 2^A. Lake 470, on ice surface
2. Lake 470, in a line with measurements on west and east sides of lake.
3. Field camp
4. East Subbasin, lower, along trail, near weir
5. East Subbasin, along trail below rain gauge 3
6. East Subbasin, upper, vicinity of upper weir
7. Roddy trail, in bush along trail from L. 239 to Roddy Lake
8. NW Subbasin, lower, near trail and weir
9. Lake 303 ridge trail, along the top of the ridge between the met. site and L. 303.
10. Lake 303 surface
11. Lake 304, in bush, along trail

12. Lake 304 surface
13. Lake 239 surface
14. Lake 240 surface
15. Lake 240, south end, in bush near weir
16. NW Subbasin, upper, near rain gauge 8
17. 0.8 miles from field camp, along road, north side
18. Roddy Lake, in the bay nearest Lake 239.

A summary of snow surveys conducted from 1969 to the end of the 1978 is as follows:

1. December 10, 1969	9. January 20, 1974
2. January 7, 1970	10. February 20, 1974
3. February 3, 1970	11. March 27, 1974
4. March 17, 1970	12. March 26, 1975
5. April 9, 1970	13. February 27, 1976
6. January 5, 1971	14. February 23, 1977
7. March 24, 1971	15. January 3, 1978
8. February 24, 1972	16. February 23, 1978
	17. March 30, 1978

Table 31 provides a summary of average snow depth (in.), average water equivalent (in.) and average snow density (inch of water equivalent per inch of snow depth) for each snow course included in the above 17 surveys.

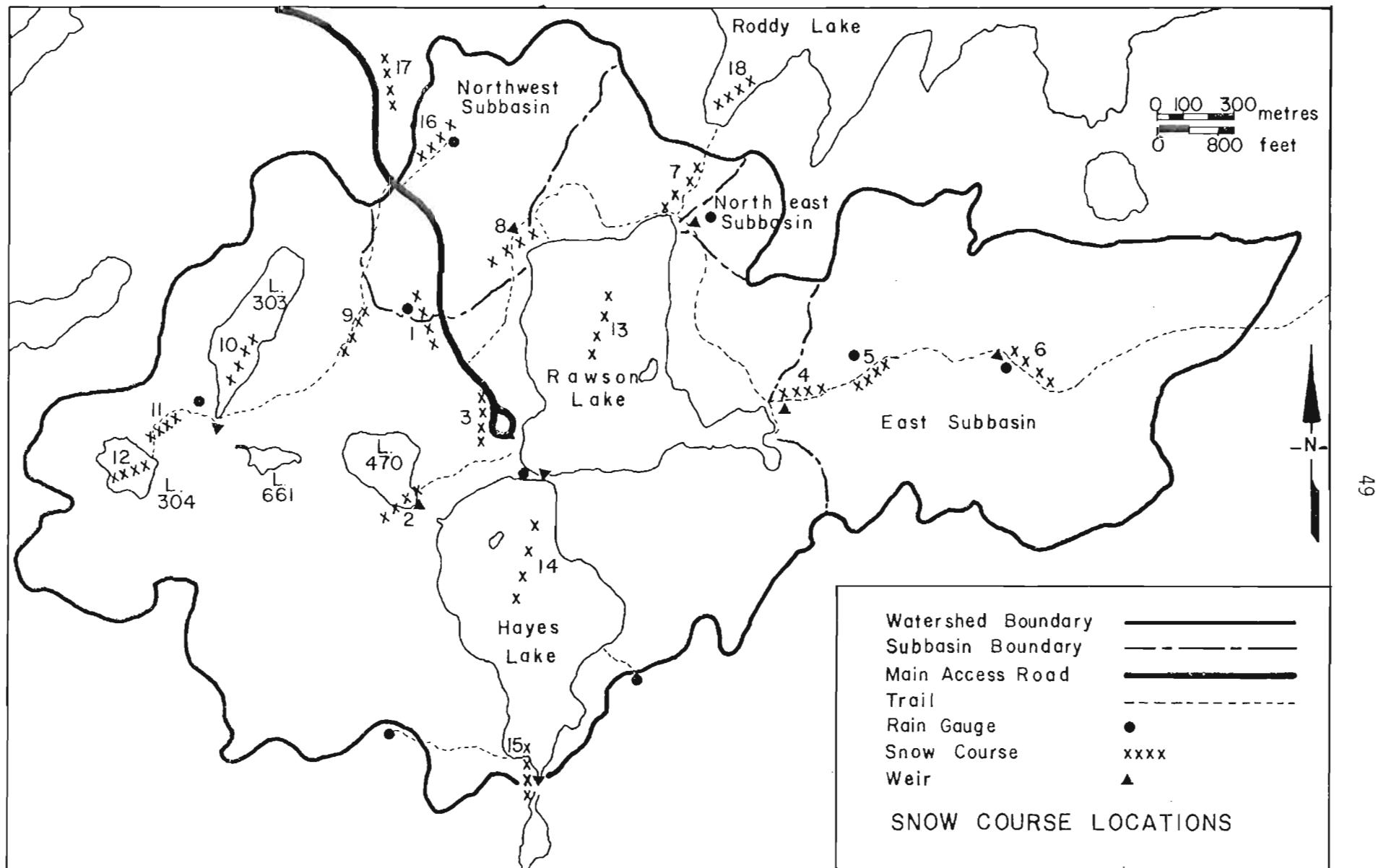


Fig. 2 Locations of snow courses used at the Experimental Lakes Area during the period 1969 to 1978. Not all sites are used each snow survey.

Table 31 Summary of snow survey data for the Experimental Lakes Area from 1969 to 1978

Snow Course	Average Depth (inches)	Average Water Content (inches)	Average Density (inch/inch)	Snow Course	Average Depth (inches)	Average Water Content (inches)	Average Density (inch/inch)				
<u>December 10, 1969</u> Weather -17 to -16°F											
1	11.3	.43	.035	1	21.7	4.0	.183				
5	8.7	.60	.071	2	20.1	3.5	.176				
7	8.3	.40	.048	5	22.6	3.2	.187				
9	9.8	.70	.073	7	21.8	3.8	.128				
10	5.3	.66	.128	8	20.5	3.4	.164				
11	4.8	.20	.035	9	21.4	3.8	.175				
12	6.8	.60	.089	15	18.2	2.5	.138				
13	5.3	.60	.106								
14	5.8	.50	.081								
15	7.5	.30	.044	<u>January 20, 1974</u> Weather -20°F							
17	10.4	.60	.067	1	17.0	2.83	* .166				
18	7.2	.70	.093								
<u>January 7, 1970</u> Weather -15 to -5°F											
1	12.8	1.7	.135	2	25.0	3.1	.126				
2	13.2	1.2	.093	3	19.0	3.25	.170				
5	12.4	1.6	.130	4	22.2	3.0	.134				
7	11.4	1.5	.121	7	21.3	3.1	.143				
9	11.0	1.2	.112	9	21.9	3.8	.173				
10	7.9	.5	.067	13	18.0	-	-				
11	11.3	1.3	.113	14	18.0	3.0	.166				
12	10.8	1.0	.099	15	19.8	3.7	.186				
15	9.6	1.0	.108								
17	12.1	1.1	.091								
<u>February 3, 1970</u> Weather -29 to -10°F											
1	16.8	2.5	.146	1	22.8	5.6	.240				
2	8.3	.9	.107	2	23.5	5.4	.229				
2	15.6	2.1	.132	6	25.4	5.3	.219				
5	18.3	2.5	.135	7	25.9	6.0	.232				
7	18.4	2.6	.140	8	25.6	5.2	.201				
9	16.5	2.4	.141	10	23.9	4.5	.188				
10	13.5	1.9	.142	13	-	-	-				
13	12.1	1.7	.143	14	-	-	-				
17	17.2	2.2	.125	15	24.6	4.0	.168				
<u>March 17, 1970</u> Weather -18 to -41°F											
1	24.5	4.9	.201	3	20.1	5.9	.294				
2	22.3	5.4	.238	4	21.1	6.6	.316				
5	22.5	3.4	.154	6	19.9	6.0	.309				
7	22.3	4.7	.220								
9	26.6	4.0	.160	<u>February 17-28, 1975</u> Weather -9 to -8°F on Feb. 17							
10	3.6	.75	.209	1	22.0	3.13	.147				
11	21.6	3.0	.150	2	22.2	3.47	.150				
12	4.0	1.0	.254	3	20.5	3.47	.169				
13	12.7	4.1	.326	4	24.8	3.32	.134				
17	23.3	5.7	.244	15	21.0	3.38	.161				
<u>April 9, 1970</u> Weather -13 to -31°F											
1	15.5	3.2	.206	<u>February 23, 1977</u> Weather -6 to -23°F							
2	18.5	4.0	.125	1	14.9	2.6	.174				
5	22.3	2.9	.132	2	14.6	2.7	.185				
7	23.8	4.1	.176	4	16.1	3.0	.186				
9	15.1	2.5	.176	6	16.4	3.0	.183				
11	17.3	2.4	.141	8	16.0	3.1	.190				
15	25.9	3.1	.124								
17	18.3	3.3	.183								
<u>January 5, 1971</u> Weather -6 to -40°F											
1	16.2	3.0	.186	<u>January 3, 1978</u> Weather -9°F							
2	13.9	2.4	.174	3	14.3	5.7	.136				
5	14.0	2.0	.184	<u>February 13, 1978</u> Weather -13 to -19°F							
7	12.9	2.1	.163	1	17.8	7.4	.263				
9	13.5	2.4	.183	2	17.4	6.5	.236				
10	12.3	.3	.126	3	15.4	6.5	.121				
13	9.1	1.8	.187	6	19.0	5.7	.136				
14	9.8	1.5	.186	7	18.7	5.5	.126				
15	11.1	1.9	.186	8	19.0	5.0	.135				
16	16.5	2.5	.150								
<u>March 14, 1971</u> Weather -9 to -33°F											
1	25.7	5.1	.194	<u>March 30, 1978</u> Weather -36°F							
2	20.0	4.5	.101	3	23.6	o.?	.166				
5	19.1	4.3	.109								
7	21.8	4.2	.131								
8	18.0	3.9	.109								
9	19.5	3.3	.184								
10	20.1	5.1	.180								
13	11.7	3.2	.173								
14	5.6	1.4	.153								
15	16.5	5.6	.119								

APPENDIX 3

SUMMARY OF DAILY AIR TEMPERATURE AT STATION 1

Air temperature data has been collected continuously since June 27, 1969 at the Rawson Lake meteorological site (Station 1). The site is located 0.3 miles (0.5 kilometres) northwest of the ELA field station. Temperatures were observed twice daily at approximately 8:00 cst and 20:00 cst (17:00 cst in winter). The measurements were made from thermometers set in a standard, double louvered, white, wooden screen. The screen is set on a wooden stand such that the maximum and minimum thermometers are approximately 1.5 metres (5 feet) above ground. The ground surface is exposed bedrock and not level grass as recommended by AES standards.

Tables 32 to 41 provide a summary of daily maximum and minimum air temperature in degrees Fahrenheit for each year. The maximum temperature for a given day is the highest temperature in the 24 hour period beginning after the morning observation of that day (i.e. the highest of that evenings reading and the reading of the next morning). The minimum temperature is the lowest temperature recorded in the 24 hour period beginning after the evening observation of the previous day (i.e. the lowest of the morning value and the evening value for that day). Only the daily maximum and minimum temperatures were reported here but the morning and evening values are available on request. The mean temperature for the month, also included, is the average of the daily maximum and minimum values. Extreme temperatures have been included on a monthly basis. During the period of record reported, the maximum recorded temperature was 96°F (35.5°C) on July 30, 1975 and the minimum was -42°F (-41°C) on January 15, 1972.

Table 12 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1969. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean	Max. Day	Min. Day			
<u>MONTH</u>																																						
JANUARY	Max.																																					
	Min.																																					
FEBRUARY	Max.																																					
	Min.																																					
MARCH	Max.																																					
	Min.																																					
APRIL	Max.																																					
	Min.																																					
MAY	Max.																																					
	Min.																																					
JUNE	Max.																																					
	Min.																																					
JULY	Max.	67	72	71	58	60	65	71	65	77	79	83	92	80	81	82	78	77	76	76	75	76	68	73	75	70	72	80	78	81	74.2	65.0	92	12	41	1		
	Min.	41	42	48	53	45	48	53	52	57	56	55	63	67	59	64	58	55	59	58	59	54	59	58	55	50	58	58	57	60	56	55.4	55.4					
AUGUST	Max.	79	82	76	74	78	70	81	76	84	88	73	77	68	75	78	75	69	72	74	81	84	83	80	82	83	78	83	87	87.1	68.0	88	11	56	18			
	Min.	53	58	59	61	58	60	53	54	53	60	62	67	63	55	59	54	58	50	51	57	53	64	72	62	63	65	58	61	65	56	52	58.3					
SEPTEMBER	Max.	73	74	79	76	68	70	61	58	58	63	64	69	77	73	60	58	52	61	68	68	74	61	44	49	51	51	50	50	45	44	62.0	55.0	79	3	34	23	
	Min.	51	53	60	60	64	56	50	44	42	46	40	49	50	62	53	46	38	36	47	56	57	48	36	37	H	43	42	36	44	35	48.0						
OCTOBER	Max.	47	49	52	61	46	47	42	47	53	37	H	44	36	40	40	37	39	44	39	37	29	29	33	36	31	27	32	39	40	43	40.6	35.8	61	4	16	23	
	Min.	40	39	44	49	41	37	35	31	37	34	29	29	30	29	34	30	29	30	26	28	23	20	16	27	21	23	29	25	34	34	31.0						
NOVEMBER	Max.	36	35	36	49	48	54	58	53	54	49	38	28	25	20	22	23	23	18	18	16	21	20	28	37	38	12	30	33	32	41	32.5	26.0	58	7	-4	27	
	Min.	32	32	26	27	31	26	22	33	42	44	30	23	9	9	13	11	21	14	9	2	2	19	12	19	6	5	-4	23	3	17	18.5						
DECEMBER	Max.	38	36	15	20	26	26	29	32	24	26	19	18	19	18	12	25	26	21	11	12	8	0	14	17	21	16	16	18	14	17	18	19.7	14.1	38	1	-16	22
	Min.	21	31	13	1	14	24	24	19	17	12	15	13	14	6	-6	6	16	12	9	-4	-5	-16	-14	0	16	10	-8	2	3	8	10	8.5					

Table 33 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1970. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean	Max. Day	Min. Day					
<u>MONTH</u>																																								
JANUARY	Max.	20	15	6	3	0	-1	1	7	11	18	17	-5	-7	2	8	-16	-14	-15	-14	-8	-3	2	12	19	21	20	22	11	22	27	6.5	0	27	31	-36	17			
	Min.	11	4	-2	-8	-14	-14	-18	-11	-3	-4	8	-14	-28	-16	-5	-23	-34	-35	-34	-32	-30	-13	-29	6	16	16	13	16	-15	4	17	-7.0	-7.0	6	27	31	-36	17	
FEBRUARY	Max.	19	-20	-10	2	15	26	24	19	28	15	12	0	-2	2	-1	10	12	3	4	14	40	32	42	18	6	14	19	18		12.9	2.8	42	23	-33	2				
	Min.	-2	-33	-35	-21	-9	-6	0	4	16	2	-1	-8	-23	-22	-15	-17	-4	-14	-11	-23	6	24	16	4	-17	0	-8	-11		-7.4	-7.4	2.8	42	23	-33	2			
MARCH	Max.	21	29	32	17	22	12	7	19	22	25	25	19	30	29	33	32	41	41	45	44	46	41	41	41	35	29	18	15	25	25	25	25	25	28.6	16.9	46	21	-16	7
	Min.	3	4	19	-2	-6	-9	-16	-8	-1	-2	0	-1	9	5	3	2	11	14	15	19	16	24	17	19	23	17	-5	-15	-6	12	-3	5.2	16.9	46	21	-16	7		
APRIL	Max.	26	35	34	36	41	40	62	36	31	38	40	43	43	42	36	34	43	36	32	35	42	40	50	60	50	46	44	59	43		41.3	33.2	62	7	-4	1			
	Min.	-4	10	15	9	29	25	28	21	10	9	26	21	28	26	29	32	29	21	30	29	31	32	29	33	38	31	38	38	34		25.2	33.2	62	7	-4	1			
MAY	Max.	36	51	55	45	44	62	73	55	40	37	45	39	54	53	48	59	77	72	58	58	57	71	76	62	49	40	51	63	63	65	57		55.2	46.0	77	17	19	2	
	Min.	25	19	35	31	25	31	47	41	35	29	31	32	30	37	32	33	35	35	M	30	40	42	39	43	50	32	30	35	39	48	45	52		36.0	46.0	77	17	19	2
JUNE	Max.	66	69	70	81	83	89	82	90	83	77	62	75	77	79	70	70	76	61	67	72	75	78	78	66	55	63	68	79	84	84		74.5	64.0	90	8	43	2		
	Min.	49	43	45	51	56	60	50	62	62	59	54	56	56	53	58	60	56	43	46	47	55	51	55	48	48	51	46	56	65	65		53.6	64.0	90	8	43	2		
JULY	Max.	79	69	63	73	77	81	74	78	85	83	87	76	82	79	79	85	73	59	71	71	79	80	81	75	84	82	81	87	81	85	73		77.8	68.8	87	11	48	19	
	Min.	57	58	53	49	51	59	59	59	58	66	64	67	66	64	58	60	60	36	48	51	54	61	65	64	59	73	59	59	68	67	63		59.8	68.8	87	11	48	19	
AUGUST	Max.	82	65	66	74	84	82	83	84	82	83	86	87	92	81	69	59	79	69	68	67	65	68	75	75	77	76	69	68	71	63	62		74.5	64.8	92	3	41	31	
	Min.	52	50	49	53	55	59	62	63	62	62	58	70	68	63	57	48	47	63	54	52	45	55	53	53	57	51	57	48	51	49	41		55.1	64.8	92	3	41	31	
SEPTEMBER	Max.	75	70	72	71	82	72	69	57	55	56	54	46	44	51	M	63	62	68	81	74	64	45	63	61	52	49	48	56	66	67		61.8	53.6	82	5	32	13		
	Min.	50	62	64	56	53	59	M	48	50	43	39	37	32	38	37	50	51	51	62	52	40	32	46	39	38	34	33	49	40		45.4	53.6	82	5	32	13			
OCTOBER	Max.	62	43	48	51	70	62	39	36	31	30	36	41	34	34	41	53	59	49	58	57	M	60	55	54	57	52	49	36	32	31	32	36		47.1	40.4	70	5	21	11
	Min.	51	35	32	35	40	51	34	32	28	25	21	32	32	23	25	31	34	29	34	41	42	43	49	46	49	40	36	32	31	32	36		35.5	40.4	70	5	21	11	
NOVEMBER	Max.	38	41	44	37	48	36	29	33	36	34	32	30	25	28	33	33	34	34	30	30	18	9	12	19	29	11	14	32	20	32		29.3	23.8	48	5	-4	27		
	Min.	34	34	29	29	28	28	19	28	28	26	25	19	8	7	23	30	28	30	25	25	11	8	1	0	13	1	-4	1	14	1		18.3	23.8	48	5	-4	27		
DECEMBER	Max.	33	5	8	21	5	10	18	22	12	5	20	23	18	12	16	16	14	13	-3	-5	4	11	12	9	9	3	9	12	17	24		12.7	4.8	33	1	-25	20		
	Min.	26	-2	-4	4	0	-8	0	12	2	-15	-11	12	4	-12	-1	8	4	1	-11	-25	-25	-8	-1	-13	-17	-6	-8	-15	-3	8	15		-3.0	4.8	33	1	-25	20	

Table 34 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1971. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean Max.	Max. Day	Min. Day						
MONTH																																									
JANUARY	Max.	18	15	10	-1	4	7	4	9	17	-3	-7	-9	10	0	H	H	-13	-6	4	20	18	6	-4	-1	-5	-6	-4	-6	-17	-15	-10	1.2	-13.1	-5.9	18	1	-33	12		
	Min.	12	7	-5	-12	-8	-4	-17	-7	3	-10	-22	-33	-21	-5	H	H	-24	-20	-2	-4	-2	-12	-26	-21	-26	-25	-24	-17	-23	-20										
FEBRUARY	Max.	-8	-2	12	18	14	0	-4	2	14	14	14	9	17	25	27	38	31	19	21	20	30	36	30	35	45	42	21	19		19.2	9.5	9.8	45	25	-26	2				
	Min.	-23	-26	-18	5	0	-8	-21	-20	-18	-9	9	-15	-14	16	19	22	23	-3	0	-1	2	5	11	11	19	29	16	3												
MARCH	Max.	16	29	31	35	34	24	23	25	28	28	30	36	42	32	22	36	35	34	36	32	33	19	19	23	30	30	33	28	35	35	43	31.0	21.2	43	31	-6	8			
	Min.	-5	-2	0	15	26	9	2	-6	0	13	11	26	32	28	12	1	7	20	14	20	9	4	-2	-5	8	25	23	22	9	9	30									
APRIL	Max.	26	16	29	34	41	53	60	58	49	61	52	31	60	44	65	64	55	47	53	50	53	59	45	40	49	46	41	42	46	37		46.2	27.6	36.9	65	15	2	4		
	Min.	14	7	>	2	9	27	31	38	31	38	42	25	13	21	32	44	31	46	41	34	31	29	35	27	36	25	30	32	30	32										
MAY	Max.	49	55	61	66	54	63	48	59	73	63	44	64	61	79	65	67	54	53	50	54	64	58	47	41	55	65	72	75	62	59	66	59.5	37.1	48.3	79	14	27	2		
	Min.	32	27	30	39	35	34	40	30	40	41	32	27	38	41	42	35	42	33	35	37	35	45	44	36	36	38	41	55	65	72	75	62	59	66						
JUNE	Max.	72	76	84	84	65	74	57	66	71	66	77	77	70	79	81	77	76	75	65	71	73	75	67	62	70	72	72	74	73	69		72.3	54.3	63.3	86	3	40	8		
	Min.	39	43	58	58	60	53	47	40	50	56	56	60	60	53	60	63	57	56	58	55	51	56	53	47	53	58	59	58	56	56										
JULY	Max.	72	76	77	77	74	70	71	69	72	69	76	73	74	77	77	64	70	73	72	73	70	74	72	74	61	63	61	57	60	69	64	53.2	70.4	61.8	77	3	45	17		
	Min.	54	53	64	60	55	51	54	57	51	53	54	59	54	53	57	51	45	52	52	54	53	54	50	56	54	50	46	46	45	46	46	55								
AUGUST	Max.	55	66	71	74	76	79	81	84	86	87	70	74	68	71	80	78	75	76	65	75	80	69	72	62	64	59	74	83	75	71	72	72.5	54.0	63.2	86	9	45	2		
	Min.	46	45	45	50	51	56	57	64	67	56	51	57	48	50	55	65	59	62	54	51	55	57	47	55	54	46	51	57	64	50	51									
SEPTEMBER	Max.	75	81	77	75	75	69	78	70	71	69	68	76	70	60	53	56	50	52	59	57	50	55	62	65	56	62	53	58	55		63.4	47.7	55.5	83	2	30	22			
	Min.	57	64	65	63	55	57	58	53	50	52	46	54	48	48	41	41	43	35	40	38	30	37	35	46	46	52	48	41	48											
OCTOBER	Max.	59	56	55	49	50	50	49	51	49	58	45	48	49	51	45	43	57	64	45	45	53	60	58	57	55	53	60	49	32	31	46	29	50.1	44.3	64	18	27	29		
	Min.	52	52	49	45	46	39	36	38	41	35	34	28	34	42	37	31	34	45	41	35	39	42	39	39	50	44	40	27	27	27										
NOVEMBER	Max.	35	36	33	32	28	24	22	31	43	33	44	34	36	37	35	33	32	29	37	36	17	26	31	20	21	19	24	18	13	20		28.6	20.1	24.3	37	14	3	22		
	Min.	22	31	30	28	25	17	7	10	19	27	27	30	25	30	34	32	30	27	19	24	8	3	26	14	15	16	5	6	7											
DECEMBER	Max.	22	28	25	31	29	28	17	10	17	20	2	2	10	24	25	6	-3	14	12	21	3	20	21	-3	3	-6	0	15	11	16	25	14.3	-3.3	7.0	29	5	-21	27		
	Min.	14	17	15	13	23	18	12	-1	-3	15	-4	-10	-7	-2	20	-2	-15	-16	-1	-6	-12	-15	14	-16	-17	-21	-11	-2	-2	8										

Table 35 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1972. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean	Max.	Day	Min.	Day		
MONTH																																							
JANUARY	Max.	24	10	-16	2	10	21	22	27	3	-2	0	-4	-16	-32	-2	24	30	23	-10	-10	4	0	-5	-12	-24	-15	-6	-5	-1	3	12	2.1	-7.4	30	17	-42	15	
	Min.	16	3	-16	-27	-14	-10	-8	1	-4	-10	-5	-15	-25	-41	-42	-23	9	-9	-25	-17	-29	-6	-22	-15	-37	-37	-29	-26	-23	-25	-8	-16.7	30	17	-42	15		
FEBRUARY	Max.	11	5	5	-10	-12	-8	-4	7	9	10	22	20	28	21	11	22	23	13	9	20	8	6	14	7	14	6	5	12	6	9.6	0.4	28	13	-31	5			
	Min.	-5	-17	-20	-23	-31	-28	-25	-23	-13	-15	4	11	15	8	-14	1	16	-1	-16	1	0	-19	-2	-18	-15	-5	-11	-9	-7	-8.8	30	17	-42	15				
MARCH	Max.	-6	3	7	5	14	13	11	10	14	26	37	40	46	45	39	47	30	30	39	50	33	28	30	34	37	32	28	31	35	34	32	26.2	18.0	50	20	-21	2	
	Min.	-18	-21	-19	-6	-14	-3	-1	-12	-9	-12	19	13	20	21	34	33	18	20	25	29	24	14	3	13	8	11	20	23	24	25	24	9.9	30	17	-42	15		
APRIL	Max.	32	41	16	15	27	24	30	32	43	40	40	42	50	46	51	45	40	49	50	55	52	42	44	51	57	64	63	66	68	68	44.8	35.3	68	29	-3	5		
	Min.	21	15	7	3	-3	5	4	11	22	31	26	32	30	32	34	35	29	25	31	29	36	32	31	26	28	35	39	38	40	46	25.8	30	17	-42	15			
MAY	Max.	63	65	45	57	54	44	53	58	63	72	72	66	54	57	74	85	83	88	84	64	78	76	79	85	83	80	62	64	61	79	68.7	57.2	88	18	26	4		
	Min.	43	38	35	26	38	28	27	29	32	42	46	51	49	44	44	53	59	53	60	53	47	60	N	59	59	58	61	54	47	36	43	45.8	30	17	-42	15		
JUNE	Max.	80	85	75	76	76	81	85	81	62	67	60	61	70	61	53	65	72	69	63	63	75	77	77	79	81	82	77	77	82	76	72.9	62.5	85	2	37	16		
	Min.	50	61	53	49	58	51	63	66	46	41	50	52	56	48	39	37	45	61	50	50	38	45	52	53	54	56	60	65	59	57	59	52.2	30	17	-42	15		
JULY	Max.	66	59	65	74	81	75	72	76	71	78	79	71	69	67	70	77	74	70	69	72	77	67	74	61	68	72	78	78	81	82	69	72.3	62.8	82	30	39	2	
	Min.	51	39	41	48	51	53	54	55	59	58	62	58	54	58	52	54	52	56	50	54	57	56	52	48	51	51	56	60	60	55	53.4	30	17	-42	15			
AUGUST	Max.	66	61	62	72	66	69	62	68	67	82	83	70	67	74	81	84	85	79	67	64	76	77	80	82	86	78	84	83	67	73.7	64.2	86	27	41	3			
	Min.	45	49	41	53	53	51	44	46	44	54	66	57	62	53	54	67	62	62	60	63	57	48	49	54	55	57	57	56	54	69	61	54.8	30	17	-42	15		
SEPTEMBER	Max.	59	66	70	58	64	56	57	60	70	70	65	66	61	69	50	63	53	63	74	64	41	59	54	53	40	42	50	44	43	51	57.8	49.6	74	19	28	30		
	Min.	45	41	47	46	40	48	40	41	46	60	48	47	49	41	38	35	37	45	47	57	36	29	43	39	30	32	32	39	36	28	41.4	30	17	-42	15			
OCTOBER	Max.	52	59	50	66	68	46	68	38	50	63	42	42	51	37	49	32	23	27	37	49	39	42	39	45	48	56	35	26	30	32	34	43.7	37.2	68	7	13	17	
	Min.	39	45	45	45	42	29	41	32	25	43	36	26	38	31	27	31	13	17	15	25	23	21	25	35	40	33	22	24	27	28	30.6	30	17	-42	15			
NOVEMBER	Max.	39	36	31	33	39	39	28	33	33	33	28	28	27	24	22	30	19	15	27	34	40	31	24	18	16	25	24	24	24	24	28.0	22.1	60	24	-4	28		
	Min.	25	26	17	29	28	27	18	22	29	31	22	17	8	11	8	12	16	11	14	15	3	5	20	20	26	19	9	-4	0	3	16.2	22	60	24	-4	28		
DECEMBER	Max.	-1	-5	-6	-2	-4	-8	-7	-8	-4	-3	9	12	6	9	2	6	21	28	12	19	17	21	21	10	16	12	17	23	12	16	14	3	7.0	-25	28	18	-27	6
	Min.	-18	-16	-23	18	-12	-27	-22	-23	-25	-21	-14	1	-11	-11	-7	-17	-9	-2	-2	2	2	8	1	-12	5	-11	11	5	5	-1	0	-8.1	-25	28	18	-27	6	

Table 16 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1973. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	Mean																																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly	Mean	Max.	Day	Min.	Day							
NORTH																																												
JANUARY	Max.	12	24	21	-4	-7	-8	-4	-8	1	6	9	15	22	26	31	38	36	31	8	19	24	24	23	40	40	35	18	11	20	22	22	17.6	8.5	40	24	-32	8						
	Min.	-10	5	8	-14	-29	-30	-29	-32	-24	-9	-9	3	-1	12	20	25	20	11	-5	0	7	20	-1	7	12	26	13	-12	-6	-5	8	-6	40	24	-32	8							
FEBRUARY	Max.	24	25	26	26	25	-3	1	10	10	19	26	27	24	-2	-5	8	18	29	10	21	18	31	15	18	23	28	26	33						18.3	7.6	29	18	-29	10				
	Min.	19	20	15	14	8	-13	-21	-7	-6	-17	3	20	0	-22	-28	-29	-4	3	-5	-8	-14	-14	-8	-13	2	-1	12	13							-2.9	7.6	29	18	-29	10			
MARCH	Max.	27	39	40	38	39	36	41	34	37	35	44	45	38	37	31	30	31	34	47	45	46	49	44	52	53	53	53	29	35	44	51			40.5	29.5	53	25	2	17				
	Min.	17	17	27	9	16	10	21	10	13	25	27	21	29	28	23	8	2	5	14	19	18	N	31	31	27	30	31	21	13	12	23							18.6					
APRIL	Max.	69	47	48	47	45	35	34	32	32	40	43	43	57	68	30	29	38	54	67	58	62	32	35	44	47	45	45	49	50	53			45.2	35.5	68	14	10	9					
	Min.	26	25	28	22	32	26	19	13	10	10	27	19	26	36	25	22	16	28	44	48	38	27	23	29	27	30	25	23	27	26							25.9						
MAY	Max.	54	52	53	60	52	48	62	61	65	47	49	58	51	60	63	53	59	69	68	68	71	60	66	57	55	70	78	69	71	72	66			60.9	50.2	72	30	28	14				
	Min.	30	31	32	31	38	38	34	37	38	40	37	33	30	28	40	29	29	44	47	43	44	50	49	44	43	49	50	52	42	51	45							39.5					
JUNE	Max.	67	80	63	71	60	63	63	70	69	63	71	66	76	77	78	58	62	69	60	65	60	69	79	82	81	71	59	56	73	77			68.6	59.3	82	24	38	7					
	Min.	44	50	56	49	48	46	38	50	64	53	45	49	43	54	61	53	48	53	51	51	48	50	51	56	56	48	47	49	49							50.0							
JULY	Max.	82	74	70	72	76	83	81	80	81	71	79	81	70	70	74	80	75	73	70	77	80	81	65	65	69	65	63	73	68	63	71			73.8	64.5	83	6	46	28				
	Min.	54	64	56	55	54	61	59	54	60	56	55	60	58	51	49	53	56	55	53	50	55	59	61	62	53	50	46	53	51	50							55.2					59	
AUGUST	Max.	74	76	80	78	76	77	78	70	67	63	76	72	71	76	74	80	84	85	76	70	71	76	73	71	77	79	86	87	82	79	77			76.1	66.9	87	28	51	1				
	Min.	51	52	58	63	55	62	64	60	57	54	53	58	56	52	60	57	61	66	63	47	51	54	52	53	61	60	62	71	60	56	63							57.7					
SEPTEMBER	Max.	76	62	68	64	60	64	64	68	71	66	65	60	74	56	45	54	60	60	46	50	45	45	57	60	59	55	57	73	63	69			60.5	52.0	76	1	29	20					
	Min.	64	54	52	57	50	48	40	46	52	56	47	38	46	33	36	30	39	41	31	29	36	40	42	51	45	38	43	40	44							43.6							
OCTOBER	Max.	68	69	57	57	57	65	57	64	63	54	55	47	45	51	46	43	36	45	47	62	65	67	49	51	42	38	39	35	45	50	43			52.0	45.8	69	2	27	18				
	Min.	53	50	46	37	39	43	47	53	58	45	38	36	39	37	37	34	28	27	39	32	45	45	42	45	37	32	34	30	30	35	36							39.6					
NOVEMBER	Max.	35	31	27	21	17	23	20	19	22	30	34	31	27	20	24	25	29	29	24	35	40	39	23	27	31	33	29	22	29	20			27.2	22.2	46	21	8	30					
	Min.	30	25	20	12	11	12	11	14	11	24	25	22	17	18	17	16	23	17	21	22	15	10	10	24	28	19	14	13	8							17.3							
DECEMBER	Max.	30	32	25	9	8	20	29	26	10	4	12	1	-11	2	5	4	17	9	3	0	17	20	15	20	22	24	21	14	14	-4	-8	-20			11.5	4.9	32	2	-31	31			
	Min.	13	26	17	-1	0	-9	9	20	4	-17	-8	-3	-24	-16	-8	-18	-8	-7	-8	-18	-8	12	4	6	14	14	17	9	-14	-21	-31							-1.7					

Table 37 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1974. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean	Max. Day	Min. Day			
<u>MONTH</u>																																						
JANUARY	Max.	-21	-8	-3	0	-3	-7	-18	-7	-16	-9	-15	-8	12	-1	-4	9	27	10	25	23	22	23	17	2	20	22	11	7	17	-6	-11	3.7	-4.5	27	17	-41	1
	Min.	-41	-30	-14	-19	-17	-21	-33	-32	-29	-31	-36	-30	-21	-7	-18	-7	0	3	-4	19	14	3	2	-9	-9	15	-3	-1	-17	-21	-12.7	-12.7	27	17	-41	1	
FEBRUARY	Max.	-4	-1	0	10	14	12	10	8	11	14	28	27	0	7	22	18	28	32	29	11	28	9	16	22	26	42	29	29	29	17.8	6.6	42	26	-31	1		
	Min.	-31	-17	-18	-8	-1	-2	-1	-16	-12	-10	-4	0	-17	-21	-6	-4	1	21	0	2	10	-6	-10	-5	-3	13	10	4	-4.7	-4.7	27	17	-41	1			
MARCH	Max.	30	36	26	27	41	39	18	25	26	38	38	31	36	27	30	20	28	24	17	17	12	9	-6	4	20	18	26	32	32	29	29	25.0	15.0	41	5	-27	23
	Min.	9	23	17	0	12	21	-7	10	18	2	18	12	17	19	21	3	1	17	-7	-12	-6	-13	-27	-27	-11	-3	-4	11	22	23	13	5.5	15.0	41	5	-27	23
APRIL	Max.	29	31	37	39	40	32	29	36	52	43	49	35	34	47	51	53	50	52	53	46	37	29	46	56	63	74	49	44	49	52	44.6	30.3	74	26	3	7	
	Min.	19	19	23	16	18	25	3	10	22	25	26	31	28	23	26	26	39	28	30	38	33	24	21	27	38	40	38	31	26	27	26.0	30.3	74	26	3	7	
MAY	Max.	47	41	43	40	45	46	49	50	57	52	35	49	52	51	53	52	52	56	60	70	73	63	55	57	64	68	66	72	66	61	59	55.0	45.7	73	21	19	4
	Min.	22	33	25	19	31	21	31	35	17	40	32	32	30	35	33	34	36	33	45	44	55	44	42	37	38	39	46	49	49	44	42	36.5	45.7	73	21	19	4
JUNE	Max.	67	72	80	77	69	57	68	68	56	64	66	70	72	68	43	63	69	74	80	79	73	65	73	77	80	81	81	86	71	75	70.8	60.6	86	28	39	15	
	Min.	42	44	52	55	57	54	52	53	49	46	40	47	43	49	39	39	43	46	54	57	52	47	46	51	56	56	64	63	56	53	50.1	60.6	86	28	39	15	
JULY	Max.	78	81	66	77	83	87	91	79	80	80	83	86	86	77	79	85	85	89	81	84	88	83	85	79	83	72	74	65	64	69	74	79.8	70.0	91	7	50	15
	Min.	53	59	58	53	60	63	69	66	65	64	58	65	65	61	50	60	64	65	60	60	65	60	62	63	62	61	57	57	52	56	54	60.2	70.0	91	7	50	15
AUGUST	Max.	68	63	74	81	81	85	83	84	72	68	69	70	69	63	71	72	68	67	78	64	55	56	55	57	77	63	62	57	56	58	53	67.7	60.1	85	6	42	28
	Min.	52	49	46	54	59	57	59	58	60	62	56	54	53	57	59	54	52	52	54	60	50	49	45	49	56	51	48	42	45	44	42	52.5	60.1	85	6	42	28
SEPTEMBER	Max.	51	54	62	71	73	64	61	56	58	50	55	51	49	58	56	58	57	61	53	52	38	47	62	59	57	70	45	50	46	35	55.4	47.3	73	5	25	30	
	Min.	38	35	42	41	48	52	52	43	40	43	47	36	42	41	39	50	43	44	38	31	28	28	35	48	30	32	42	29	34	25	39.2	47.3	73	5	25	30	
OCTOBER	Max.	35	46	58	50	37	34	40	42	62	67	54	47	51	38	37	50	29	37	40	46	56	48	53	56	50	57	63	60	52	56	41	48.1	41.3	67	10	23	2
	Min.	25	23	40	39	32	29	25	36	36	42	43	27	35	34	30	30	25	27	29	26	37	33	31	40	27	33	36	48	43	44	37	34.5	41.3	67	10	23	2
NOVEMBER	Max.	32	33	30	30	31	45	50	50	46	42	32	25	24	25	29	29	39	38	30	24	30	35	26	18	24	25	26	26	23	24	31.4	26.3	50	7	6	25	
	Min.	27	27	25	25	26	27	32	39	32	26	27	20	19	15	19	18	22	18	27	20	18	23	15	9	0	15	21	17	19	11	21.3	26.3	50	7	6	25	
DECEMBER	Max.	25	20	21	25	28	28	11	12	31	33	26	13	19	25	27	16	14	12	13	18	14	22	21	15	23	32	31	33	22	30	25	22.4	15.8	33	10	-11	8
	Min.	6	11	3	16	21	24	4	-11	3	23	22	-1	-3	7	21	12	-2	-1	5	7	9	9	13	6	-1	13	16	24	11	3	15	9.1	15.8	33	10	-11	8

Table 38 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1975. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean Max.	Mean Min.	Max. Day	Min. Day		
<u>MONTH</u>																																						
<u>JANUARY</u>																																						
MAX.	16	28	25	17	19	25	22	23	27	29	3	-8	-7	3	2	1	18	12	4	15	-11	7	21	25	11	3	14	4	4	8	31.9	4.4	28	2	-25	22		
MIN.	3	8	16	8	13	15	17	20	19	23	-10	-13	-23	-22	-12	-24	-11	2	-25	-15	-23	-25	3	17	7	1	-11	-14	-3	-15	-20	-3.0	-3.0	45	21	-32	9	
<u>FEBRUARY</u>																																						
MAX.	10	11	22	23	10	5	2	-13	-7	2	2	-2	6	12	16	18	28	31	22	22	45	23	25	34	27	18	19	5	16	15.3	6.2	45	21	-32	9			
MIN.	-10	-12	-3	17	4	-11	-13	-27	-32	-19	-13	-15	-24	-2	3	-8	7	8	5	8	16	19	2	4	9	5	5	-8	-3.0	-3.0	24	9	21	21	-32	9		
<u>MARCH</u>																																						
MAX.	13	16	25	22	23	27	19	15	17	18	20	18	22	29	41	47	39	41	35	38	34	27	18	12	15	23	31	31	16	11	17	24.0	5.7	47	16	-15	9	
MIN.	-5	-3	-2	1	17	11	11	-14	-15	-10	-6	3	-10	5	12	17	33	32	27	12	28	16	3	2	-7	0	15	20	6	-12	-10	-3.0	-3.0	83	21	-32	9	
<u>APRIL</u>																																						
MAX.	22	25	27	27	31	40	44	46	44	46	48	52	54	46	51	38	38	36	33	46	50	54	52	49	44	44	37	42.5	24.1	54	14	-5	1					
MIN.	-5	-4	0	4	9	19	22	19	18	22	20	29	32	32	32	34	31	28	20	22	32	36	34	35	41	34	31	-3.0	-3.0	83	21	-32	9					
<u>MAY</u>																																						
MAX.	41	52	48	53	57	64	67	69	72	74	57	67	73	44	62	74	66	69	79	83	61	64	74	75	82	65	63	69	67	58	59	59	64.8	56.0	83	20	28	3
MIN.	32	33	28	36	36	37	42	42	45	49	37	32	43	37	32	43	59	47	51	58	48	45	46	57	59	50	40	46	48	42	41	40	43.3	46.0	83	20	28	3
<u>JUNE</u>																																						
MAX.	64	62	59	63	52	55	62	69	66	66	65	75	67	62	65	71	72	73	75	77	82	83	78	81	85	77	77	77	77	70.2	61.2	85	28	40	1			
MIN.	60	60	47	43	47	46	45	44	52	51	52	53	54	45	43	49	51	52	59	55	63	60	55	57	61	63	56	62	62	61	52.3	52.3	83	21	-32	9		
<u>JULY</u>																																						
MAX.	82	83	82	85	85	82	85	65	66	64	65	71	78	89	89	92	92	85	74	66	82	80	72	75	81	79	81	89	93	90	92	80.6	70.6	96	30	46	9	
MIN.	63	62	61	62	62	64	62	53	46	48	51	49	56	63	66	72	73	68	61	53	55	58	60	55	59	60	59	66	70	73	68	60.6	60.6	83	21	-32	9	
<u>AUGUST</u>																																						
MAX.	75	68	78	68	70	75	83	71	75	73	75	79	75	61	70	64	62	66	66	68	61	70	75	84	65	59	58	72	72	66	75	70.3	61.8	84	24	44	18	
MIN.	67	55	53	52	48	49	60	61	53	57	59	55	53	49	51	46	44	48	50	53	49	54	63	51	47	44	51	55	53	58	53.2	53.2	83	21	-32	9		
<u>SEPTEMBER</u>																																						
MAX.	62	62	58	68	62	54	53	56	62	58	46	42	52	73	57	58	63	58	50	43	54	55	54	61	65	66	69	68	62	44	57.8	49.8	69	27	30	12		
MIN.	49	42	49	45	47	44	47	38	40	49	36	36	30	40	46	40	46	50	44	40	36	40	41	35	40	42	43	47	47	33	41.9	41.9	83	21	-32	9		
<u>OCTOBER</u>																																						
MAX.	44	63	58	69	56	57	69	70	56	52	48	61	53	42	38	42	51	62	57	58	51	48	40	38	32	36	44	33	37	43	46	50.1	43.0	70	8	24	25	
MIN.	30	36	46	40	42	33	51	47	40	34	41	41	46	36	31	28	30	39	43	40	37	33	36	32	24	28	31	21	36	35.9	35.9	83	21	-32	9			
<u>NOVEMBER</u>																																						
MAX.	50	46	50	62	69	63	43	44	41	36	34	26	33	39	51	50	44	38	28	19	23	12	13	9	15	16	22	27	30	7	34.7	22.3	69	5	-2	25		
MIN.	33	46	33	39	41	45	38	30	29	30	27	20	16	24	26	34	26	35	26	16	12	6	5	0	-2	1	7	13	17	3	34.7	22.3	69	5	-2	25		
<u>DECEMBER</u>																																						
MAX.	7	5	19	31	15	17	21	23	28	11	1	21	28	-8	2	0	-13	6	14	11	20	20	15	17	10	12	20	29	27	20	18	14.4	6.2	31	4	-30	18	
MIN.	-11	-2	-10	7	5	-15	4	7	10	2	-15	-23	-7	-18	-20	-6	-23	-30	-6	-11	-4	11	12	13	2	-8	6	14	22	18	13	-2.0	-2.0	83	21	-32	9	

Table 39 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1976. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	Mean Monthly																																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
<u>MONTH</u>																																					
JANUARY	Max.	9	10	-2	-1	3	-16	-14	-6	1	10	16	21	10	-1	8	-1	8	23	0	12	14	4	11	21	17	-1	26	23	1	18	22					
	Min.	0	6	-10	-27	-11	-22	-32	-21	-11	-7	8	14	3	-15	-17	-17	-19	4	-5	-12	4	-13	0	6	9	-11	-28	1	-15	-11	5					
FEBRUARY	Max.	-5	5	9	-3	3	12	36	33	46	22	14	26	19	39	23	28	33	32	24	24	17	24	43	47	43	44	8	3	8	22.4	4.0					
	Min.	-26	-24	-1	-25	-26	-8	3	14	27	14	-19	4	-7	3	21	17	23	26	18	20	-4	2	10	26	26	25	3	-10	-11	13.2	47					
MARCH	Max.	14	11	12	12	14	14	17	19	14	18	14	22	25	17	22	13	31	46	53	33	20	41	49	35	37	39	40	43	41	44	45	27.6	6.8			
	Min.	-9	4	6	-16	-9	-8	-1	2	-2	-9	1	4	-6	1	-5	-9	-8	26	25	6	-11	1	25	28	15	29	20	27	34	25	24	24	19	-16	4	
APRIL	Max.	52	44	42	47	52	52	49	55	66	62	45	58	67	61	61	47	67	41	37	37	43	51	52	51	52	50	51	57	59	50	51.2	30.6				
	Min.	25	28	24	22	31	31	26	30	36	31	16	24	36	48	36	40	39	36	27	27	29	29	30	30	28	32	25	31	33	37	67	13	16	11		
MAY	Max.	42	35	45	66	41	41	52	69	80	53	61	70	47	65	57	60	61	68	73	65	64	67	67	69	74	76	67	75	79	79	81	62.9	40.1			
	Min.	29	25	23	31	27	25	23	38	40	43	31	40	44	35	50	40	38	42	53	44	39	41	39	42	46	48	50	49	51	59	57	51.5	81	31	23	3
JUNE	Max.	79	81	83	83	86	87	74	80	84	82	77	73	60	58	49	64	58	69	69	84	73	79	84	75	60	74	71	69	72	76	73.7	64.5				
	Min.	57	58	59	58	62	69	61	62	60	60	55	56	55	51	44	44	51	47	53	53	59	55	62	60	55	50	49	49	53	51	55.3	87	6	44	15	
JULY	Max.	79	78	82	82	84	83	81	83	84	84	66	73	77	81	60	72	77	87	82	78	79	86	81	79	82	81	82	75	71	67	76	78.5	57.0			
	Min.	55	56	57	62	60	60	57	61	66	64	42	51	55	60	50	49	55	56	65	59	59	57	61	55	55	53	50	57	50	53	50	67.8	87	18	42	11
AUGUST	Max.	76	81	87	76	70	77	83	80	77	78	77	64	61	68	72	76	82	89	83	82	81	77	79	88	87	81	69	54	63	75	59	75.9	55.3			
	Min.	55	57	55	62	47	50	54	58	60	58	60	58	54	52	41	48	58	65	67	65	65	58	57	62	70	63	42	38	37	48	49	88	24	37	29	65
SEPTEMBER	Max.	57	64	57	66	70	88	94	61	64	72	83	82	49	56	62	72	76	80	61	61	50	46	44	44	46	45	49	65	63	75	59	63.4	43.7			
	Min.	35	42	52	49	48	60	65	51	45	47	51	56	44	39	40	49	48	60	65	40	30	36	28	31	26	35	32	38	43	45	53.6	94	7	28	23	
OCTOBER	Max.	67	68	71	49	34	37	38	38	41	53	62	60	50	36	36	37	33	36	35	33	29	31	25	25	26	34	31	49	47	43	42.7	30.2				
	Min.	46	43	52	41	29	29	25	31	36	37	42	39	33	36	28	27	25	28	26	29	26	24	22	18	15	17	14	31	35	27	24	20	31	27	29	
NOVEMBER	Max.	51	39	25	29	42	28	20	31	27	16	20	22	33	34	39	41	32	39	30	26	23	19	17	27	34	11	-3	1	-2	3	25.1	18.8				
	Min.	29	30	20	20	25	21	5	9	21	10	5	11	17	13	20	21	22	27	25	22	18	4	8	9	21	-2	-15	-17	-11	-20	12.4	51	1	-20	30	
DECEMBER	Max.	-12	-8	6	16	-8	-10	-4	-12	-4	15	17	-7	30	32	19	29	26	27	13	-4	11	2	13	17	-2	-3	-1	-17	-19	-13	2	5.0	-4.0			
	Min.	-22	-31	-12	-3	-11	-21	-25	-26	-22	-12	-13	-19	-26	9	-4	8	20	23	4	-18	-22	-9	-20	0	-13	-15	-9	-29	-30	-29	-24	-12.0	32	14	-31	2

Table 40 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1977. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean Max.	Max. Day	Min. Day	
<u>MONTH</u>																																				
JANUARY																														3.2	-4.8	22	22	-36	16	
FEBRUARY																														18.7	2.4	10.5	34	9	-21	6
MARCH																														36.5	27.9	57	8	-9	23	
APRIL																														52.2	41.4	70	16	9	5	
MAY																														71.1	60.9	85	13	27	7	
JUNE																														68.1	59.9	82	26	43	9	
JULY																														75.5	63.8	90	18	47	1	
AUGUST																														66.0	57.2	78	9	38	24	
SEPTEMBER																														58.8	51.8	75	15	36	28	
OCTOBER																														51.7	43.2	68	13	26	22	
NOVEMBER																															28.0	23.3	58	6	-10	26
DECEMBER																															9.8	3.2	34	16	-32	10

Table 41 Summary of daily maximum and minimum air temperature in degrees Fahrenheit for the year 1978. All values were measured at the Rawson Lake meteorological station in the Experimental Lakes Area.

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean Monthly	Mean	Max. Day	Min. Day					
MONTH																																								
JANUARY	Max.	7	11	9	4	-2	3	8	-9	-9	-3	8	6	2	14	3	-4	3	4	0	6	10	15	24	15	6	-4	4	1	-3	1	4.3	-11.1	-3.4	24	23	-27	10		
	Min.	-9	2	-4	-11	-8	-19	-1	-18	-24	-26	-12	-12	-11	-4	-3	-27	-24	-3	-22	-17	-12	-2	9	2	-1	-20	-7	-14	-18	-18	-14								
FEBRUARY	Max.	-5	-4	7	8	0	2	6	14	23	21	17	26	17	16	14	11	17	16	19	22	24	24	27	25	20	14	17	16	16	14.8	-3.6	5.6	27	23	-30	2			
	Min.	-22	-30	-19	1	-23	-18	-10	-5	-1	3	-2	2	2	2	6	3	-6	4	-4	-6	-2	-6	7	19	16	-6	-6	-6	-6	-6									
MARCH	Max.	17	16	9	16	8	26	29	32	33	36	30	25	26	30	29	25	29	34	31	35	34	37	19	32	40	38	42	33	31	30	37	30.2	9.8	20.0	46	30	-16	1	
	Min.	-16	-8	-12	-13	-9	-3	2	18	25	22	20	5	7	2	15	-4	7	9	10	15	19	26	2	-2	14	26	31	22	13	31	31								
APRIL	Max.	26	33	36	37	40	44	32	40	53	38	31	32	34	39	41	47	53	56	34	42	48	55	53	58	54	63	68	69	47	50	45.3	35.6	69	28	10	1			
	Min.	10	16	23	31	15	30	12	17	26	30	26	20	12	22	23	22	31	28	28	18	24	30	34	33	35	37	55	38	26	25	25.9								
MAY	Max.	54	65	68	70	66	62	60	42	54	53	56	56	61	62	71	75	80	83	62	58	70	67	79	80	82	74	74	79	65	52	47	65.3	55.0	83	18	27	1		
	Min.	27	36	42	43	43	37	37	37	41	36	45	36	34	38	43	49	54	56	48	37	40	47	54	56	61	60	56	53	51	46	41	44.6							
JUNE	Max.	66	60	62	64	74	59	62	47	66	84	56	61	67	60	68	79	66	75	80	55	74	78	73	67	73	73	77	83	86	86	68.7	58.6	86	30	32	2			
	Min.	39	32	42	44	40	45	37	34	33	53	48	42	47	52	50	61	55	41	58	45	43	52	55	59	57	56	56	55	58	64	48.4								
JULY	Max.	81	69	75	78	81	81	69	71	63	68	74	77	66	66	70	83	83	72	64	73	73	69	72	83	85	72	70	67	68	70	68	72.9	64.4	85	25	47	30	19	
	Min.	63	62	60	61	64	62	54	59	50	47	49	59	50	57	52	59	62	64	54	52	56	50	52	56	65	60	48	56	51	47	53	55.9							
AUGUST	Max.	77	57	62	75	68	74	81	65	74	72	85	90	75	83	63	66	78	58	64	77	67	55	58	70	74	70	67	68	65	61	73	70.0	62.6	90	12	40	30		
	Min.	55	48	46	55	57	50	64	59	49	54	61	69	61	68	60	57	55	56	49	54	51	50	53	56	60	60	63	54	51	40	47	55.2							
SEPTEMBER	Max.	78	67	77	80	85	69	59	61	76	75	57	56	50	56	54	53	64	59	63	55	56	66	68	55	57	55	57	60	48	57	62.4	55.5	85	5	37	27			
	Min.	59	59	50	64	66	61	56	55	58	54	50	45	42	48	46	39	43	49	50	42	40	42	52	46	36	45	37	42	46	39	48.7								
OCTOBER	Max.	63	59	51	49	49	46	46	58	64	65	59	39	41	41	40	44	52	47	60	64	63	46	44	50	38	41	37	40	49	42	50	49.6	43.0	65	10	22	13		
	Min.	45	48	46	43	41	38	34	38	43	42	51	30	22	26	33	27	35	32	40	49	43	29	27	41	35	30	33	25	36	38	29	36.3							
NOVEMBER	Max.	56	62	56	42	36	39	46	53	34	25	22	28	31	23	26	30	28	12	5	10	15	19	25	14	21	12	11	12	7	-15	-4	-22	26.1	20.5	62	2	-22	30	
	Min.	37	37	44	30	35	27	31	42	30	22	16	15	25	19	17	19	23	-8	-5	-9	-8	-5	5	12	11	12	7	-15	-4	-22	14.7								
DECEMBER	Max.	0	0	11	28	12	-3	-7	-2	69	10	22	23	14	20	30	19	19	14	20	19	14	9	4	1	1	0	-4	23	10	-8	-11	9.1	1.0	30	15	-25	31		
	Min.	-21	-18	-11	-4	-2	-17	-21	-17	-19	-20	-6	16	2	10	14	10	11	-2	-2	14	3	1	-11	-18	-19	-6	-22	-18	-3	-20	-25	-7.1							

APPENDIX 4

SUMMARY OF WIND DATA

The wind reported in this section was measured at the meteorological site at Station 1 (Fig. 1). The site is located 366 metres (1200 feet) west of Rawson Lake and 43 metres (142 feet) above lake level. The height for exposure of wind instruments established by international agreement is 10 metres (32.8 feet). The Rawson Lake anemometer is exposed at a height of 12.2 metres (40 feet). The site is fairly well exposed on a large hill and bedrock outcrop. The clearing is approximately 122 metres (400 feet) by 61 metres (200 feet). The trees nearest the wind tower are in a small clump 23 metres (75 feet) to the east. The anemometer head is 6 metres (20 feet) higher than the tallest of these trees. The next closest trees of significance are 61 metres (200 feet) west of the tower. A bedrock ridge running almost north-south lies 200 metres (650 feet) west of the tower. Its highest point is approximately 3 metres (10 feet) higher than the anemometer head.

The instrument used was the AES type 45B anemometer and anemograph recorder. The anemometer consists of a set of 3 conical cups mounted with a directional vane, and is wired to the anemograph recorder, where a daily chart provides a record of each mile of wind and its direction. Wind speed is summarized for each hour, along with the prevailing direction during the hour. Direction is reported to the 8 points of the compass, and is the direction from which the wind is blowing with respect to true north, rather than magnetic north. The wind is seldom steady and usually fluctuates in velocity over a given period of time. The 45B anemometer simultaneously records each mile of wind and its direction on completion, and therefore does not record gusts.

A problem of directional bias for the non-cardinal (NE, NW, SE, SW) wind directions is inherent in the MSC Type 45B wind equipment. Koren (1971) has evaluated the problem and suggested that this bias is due to the relatively long lag time interval during which the wind direction is sampled. Users are cautioned that the directional data presented here should be used in a general manner only and not be interpreted as being exact.

Data presented in this report are mean hourly wind velocity in miles per hour and prevailing direction for each day. These daily velocities are based on the sum of the hourly values for that day divided by the number of hours. The daily prevailing direction is determined from the hourly prevailing directions for that day. Monthly mean hourly velocities have also been calculated. Hourly values are available, but have not been included in this report. Frequency in hours for each direction, prevailing directions, and maximum recorded hourly speeds (not gusts) are reported monthly by Atmospheric Environment Service (AES). All original data charts are on file at AES headquarters.

Table 42 Daily abstract of wind in miles per hour for 1969 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	
1								NW 4.4	M	SE 5.1	NE 4.7	SW 6.2	
2								SW 4.7	SW 4.0	W 2.3	NE 4.0	NW11.7	
3								SW 4.4	SE 5.3	SE 9.3	SW 3.8	NE 8.2	
4								NE 4.2	SE 8.6	SE 5.5	SW 4.2	SW 5.5	
5								SE 3.9	SE 4.4	SW 2.8	S 7.1	S 8.9	
6								SW 5.6	NW 4.7	SW 7.8	NW 3.3	SE 7.3	
7								NW 6.8	NE 5.3	NW 7.0	SE 4.2	NE 9.2	
8								NW 4.9	NE 4.2	SW 8.2	S 9.4	NW16.6	
9								SW 7.0	N 2.6	NW 2.8	NE 6.6	S 4.7	NE 7.0
10								SW 4.9	SW 3.6	NE 4.4	NE12.0	SW 5.2	SW 0.8
11								NW 2.4	SW 7.0	SW 6.8	NE 5.6	NW 6.7	SW 2.8
12								SW 8.3	SE 5.9	NE 3.8	NE 3.3	NW 5.8	SE 9.2
13	Station installed June 27, 1969							SW 4.2	SW 8.3	S 5.0	NW 5.8	NW10.2	N11.3
14								SW 2.3	SW 9.2	SW 5.8	SW 7.8	NW 8.8	NE 7.2
15								NW 2.9	W 6.6	M	SW 3.1	NW 5.5	SW 8.5
16								NW 5.7	SW 2.8	NW 4.7	NW 6.7	NE 5.8	SW10.9
17								NW 3.5	NE 5.3	NE 3.1	SW 6.5	NE11.5	SW 4.6
18								NE 1.5	NE 5.0	SW 6.2	NW 6.1	NW 9.0	NW 6.3
19								NE 4.1	E 3.8	SW12.0	NE 4.7	NW 9.2	NW 5.1
20								NE 4.3	S 4.2	SW 9.8	NE 5.7	NW 4.9	SW 3.4
21								SW 5.1	SW 6.0	S 8.8	NE 6.0	SW13.3	NW 5.1
22								S 6.1	SW 7.4	NW 6.3	NW 4.9	NW 5.5	NE 3.6
23								SW 4.8	SW 5.8	NE 6.8	SE 4.6	NE 2.2	NE 1.8
24								SW 2.9	SW 4.8	SE 5.6	NE 6.2	SW13.3	SE 7.4
25								NW 4.2	SE 4.4	SE 4.7	NE 5.9	NW 7.7	SE 0.9
26								SE 4.1	SW 7.1	NW 2.4	NW 5.7	NE 2.7	SW 1.1
27								NE 6.3	SW 6.1	NW 4.0	NW 4.1	SW14.1	S 0.1
28								NE 5.2	SE 4.6	SE 4.4	SW 6.4	SW10.7	- 0
29								SW 2.7	SE 7.6	NW 7.3	S 3.9	SW 8.2	SW 1.4
30								S 4.5	SW 5.2	NE 5.7	S 4.0	NW 7.8	SW 6.6
31								NW 7.4	NW 2.7		S 1.8		SE 5.5
Mean								(4.7)	5.4	(5.6)	5.7	7.1	5.9

Table 43 Daily abstract of wind in miles per hour for 1970 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	NE 3.0	NW 9.3	NE 4.6	SW 3.9	NW 6.6	N 4.8	SW 7.4	SW 6.3	S 4.7	NW 7.1	NE 9.7	NE 8.1
2	NE 0.5	SW11.9	NE 9.2	SW 2.3	SW 5.4	NE 3.5	SW 6.6	NW 7.6	SE 3.6	NW 9.0	NE 7.7	SW 2.7
3	SW 0.1	SW 7.9	SE 3.8	NW 3.4	NW 6.3	SW 6.1	NW 6.8	NW 3.3	NW 2.2	NW 9.0	NE 7.1	NE10.0
4	NW 3.3	NE 5.8	SW 3.9	SW 4.3	NW 3.7	NE 4.5	NW 4.2	SW 3.8	NE 3.1	SE 4.1	NW 6.0	SW 7.2
5	SW 3.2	SW 7.8	SW 5.0	NE 3.1	NE 3.9	SW 3.3	SW 3.9	SW 2.8	SE 5.6	SE 3.0	NW 4.3	NW 8.0
6	NW 4.9	SW 5.3	SW 4.3	SW 3.3	SW10.2	SW 5.3	SW 4.8	SW 2.0	SE 6.9	SE 7.2	NE 4.0	SE 2.6
7	NW 4.9	NE 5.1	NW 3.1	SW 9.0	SW 5.9	SW 3.1	SW 5.2	SW 1.6	NW 5.7	NW 6.0	SW 4.1	SW 6.1
8	N11.1	SW 2.1	NE 4.0	SW11.8	NE14.3	SW 9.8	NE 4.3	SW 2.2	SW 3.5	NE10.0	S 3.7	NE 4.0
9	N 3.0	SW11.4	NE 4.3	NW 7.3	NE13.2	SW 4.5	SW 5.8	SW 5.3	NE 8.2	NE11.0	NE 1.7	NW 5.3
10	SE10.2	NE 9.1	NW 3.1	NE 5.7	NE 9.3	NE 5.7	SW 2.0	SW 1.3	NW 5.7	SW 8.0	NW 1.4	NW 1.8
11	SW 8.1	NE 5.2	NW 3.5	NE 7.4	NE 8.0	SE 8.1	SW 1.0	SW 1.3	NE 4.7	SW 6.0	NE 4.1	SW 6.1
12	NW 7.3	NE 0.0	NW 4.1	NE 8.3	NE 7.1	SE 8.3	SW 3.7	SW 3.3	NW 5.1	SW 4.4	NE 3.5	SW 7.6
13	NE 2.5	SW 6.2	NE 6.9	NE10.6	SE 5.2	SE 4.9	NW 2.7	SW 2.5	SW 2.9	NW 5.0	NE 3.0	NW 4.5
14	NE 5.0	SW 4.3	NE 8.1	NE 7.6	SE 4.8	SW 2.1	SW 4.6	SW 4.8	S 1.0	NW 3.0	SW 3.0	NW 2.5
15	NW 3.0	NW 6.1	NE 3.8	NE 9.2	NE 6.9	SE 1.3	NW 6.3	SW 4.6	SE 2.1	SW 4.0	SW 6.4	SE 5.2
16	N 7.3	SE 8.7	SW 4.5	SE 7.2	NW 5.8	SE 4.3	SW 6.4	NW 4.0	SW 3.6	SW 7.0	NW 3.0	SW 1.7
17	SW 4.1	NE 7.5	SW 4.3	NE 4.1	SW 7.7	SW 5.5	NE 4.6	SE 7.6	SW 7.5	SW 5.4	SE 5.4	NE 5.8
18	SW 4.2	NW 8.1	SW 2.8	SE 4.1	NW 7.1	NW 8.8	SE 5.3	SW 6.7	SW 5.0	NE 3.0	NW 2.8	NE 5.3
19	SW 4.0	NW 6.8	SW 1.9	SE13.1	NE 3.3	SW 2.3	NE 6.0	NW 5.1	SW 6.1	SW 9.0	NE 3.2	NW 3.9
20	NW 3.8	SW 8.6	NW 5.8	NE 9.8	NE 6.0	SW 2.4	NW 2.6	NW 4.4	SW 3.5	SW 7.4	NW 5.3	SW 2.8
21	SW 6.0	SW 9.0	SW 2.1	NE 9.4	NE 3.8	NW 4.7	SW 4.7	SW 6.1	SW10.1	SE 7.4	NE 6.9	NE 3.5
22	SW 7.6	NW10.0	NE 5.5	SE 3.1	NW 1.7	SW 4.1	SW 9.8	NW 7.4	NW 6.4	SE 6.4	NW10.8	NE 4.7
23	SW 3.4	SW11.4	NW 3.2	SW 4.8	SW 1.7	SW10.8	SW11.4	NW 2.5	SE 3.8	S 5.4	NW 8.6	NW 4.3
24	SW 1.4	NW12.6	NE 2.3	SW 4.1	SE 6.0	NE 6.1	SW13.1	NW 3.1	SE 2.0	SE 5.0	SW 8.9	SW 7.3
25	NW 1.2	SW10.9	NW 4.0	SW 7.3	NW 8.2	SE 4.2	SW 3.2	NW 3.7	SW 3.0	SE 9.0	SW11.1	SW 5.3
26	SW 2.9	NE 9.1	NW 5.2	SW 4.0	NE 6.5	NE 1.7	SW 6.7	SE 4.1	NW 5.9	SW 6.4	SW 4.3	NW 0.3
27	SW 3.2	SW 4.3	NW 6.2	NE 8.7	SE 3.8	SW 3.6	NW 2.6	NW 5.6	NW 3.8	SE 7.1	NE 3.2	NE 4.5
28	NE12.9	SW 2.4	NW 3.1	NE13.1	SE 8.3	SE 6.3	SW 1.3	NW 5.7	SW 5.8	NW 3.0	SE 8.0	S 3.0
29	SW 5.4	SE 3.7	SW 3.1	SW 3.7	SW 4.3	S 2.0	S 3.5	NW 5.2	SE 5.2	NW 6.7	S 7.3	
30	SW11.0	NE 4.4	SW 9.7	NE 1.1	SE 5.7	NW 2.5	NW 0.8	SW 4.7	NE 9.0	SE 6.8	SE 7.7	
31	SW 0.7		SW 4.3		NE 4.9		SW 0.5	SW 1.6		NE 7.0		SE 8.3
Mean	5.5	7.5	4.4	5.3	0.1	5.0	5.1	4.2	4.8	6.5	5.6	5.3

Note: 1. Values shown are mean hourly velocities in miles per hour for each day and month.

2. Daily directions shown are based on prevailing hourly directions as determined from the anemograph charts for each day.

3. () brackets indicate a mean monthly value that is based on less than a full months record.

4. - indicates a missing prevailing wind direction.

5. M indicates that both velocity and direction are missing.

Table 44 Daily abstract of wind in miles per hour for 1971 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	SW 6.0	NW 5.4	NW 5.5	NE 9.7	NE 7.9	S 3.4	NE 4.9	NW 7.0	SW 7.2	NE 3.8	SE 4.6	SW 6.5
2	SW 6.0	S 1.8	SW 4.1	NE 12.0	NE 3.8	SW 6.4	S 5.8	NE 5.4	SW 4.2	SE 8.5	SW 4.4	SW 8.1
3	NW 3.5	NE 2.3	SW 8.5	NW 7.6	SW 5.2	SW 6.5	SW 8.4	SW 2.0	NE 5.7	NW 3.2	NW 5.1	SW 7.0
4	NE 5.4	NE 4.1	SW 5.1	NW 5.1	NE 5.6	SW 5.3	SW 9.5	SW 3.3	NE 7.6	NW 5.6	SE 7.5	SE 6.8
5	NW 4.2	NW 9.4	NW 3.9	SW 7.0	NE 6.0	SE 7.8	NW 9.3	SW 4.9	SE 6.3	NW 3.3	SW 12.8	SW 6.4
6	NW 3.1	NW 5.8	NE 7.3	SW 7.6	SW 4.4	SW 8.0	NW 6.2	SW 4.2	SW 5.5	NW 3.5	NW 9.8	SE 2.7
7	S 3.6	SW 4.9	NE 7.3	SE 7.0	NE 5.6	NE 8.3	SE 9.0	SW 5.5	SW 6.6	SW 6.1	NW 3.7	NE 7.4
8	SE 3.9	NW 4.3	N 3.0	NW 8.3	SW 3.9	SE 3.2	SW 10.4	SW 7.3	NW 4.5	NE 5.0	SW 8.6	NE 2.8
9	NW 3.1	SW 5.3	S 2.3	NW 6.4	SW 6.2	SE 3.1	NW 6.2	SW 6.7	S 4.6	NE 5.2	SW 3.6	SE 5.2
10	NE 4.9	S 2.7	NE 2.1	SW 11.6	NE 5.8	SE 9.0	NE 4.0	NW 6.4	NE 5.5	NW 6.7	SE 5.5	SW 5.6
11	NW 4.3	NE 6.4	SE 5.1	SW 11.3	NE 7.4	SE 2.8	SE 5.7	NW 4.8	SW 4.6	NW 6.0	SW 4.0	SW 8.8
12	SW 2.6	NW 3.7	SW 6.5	NW 6.9	SW 3.8	NE 3.0	SE 7.2	NW 7.3	SW 7.4	SW 2.5	SE 4.4	SW 5.1
13	NE 4.2	S 9.1	SE 5.5	SW 4.3	NE 6.6	NW 4.8	NW 7.4	NE 3.7	SW 6.1	SW 6.9	SE 5.3	SW 2.0
14	NW 6.3	NW 4.3	NE 14.3	SW 5.9	SW 9.3	NE 4.1	SW 6.4	NE 4.4	NW 6.1	NW 7.2	NE 5.2	SE 5.8
15	M	SE 5.5	NE 12.1	SE 9.9	SW 8.4	SW 4.4	NW 6.6	SW 11.1	NW 5.0	NE 4.7	SW 4.9	NE 4.5
16	M	SW 9.3	SW 3.4	SE 9.9	SE 5.2	SW 3.4	NE 6.0	NE 4.9	SW 3.6	NE 11.0	NE 4.7	NW 5.0
17	M	SW 6.9	SW 4.3	SW 4.1	NE 8.1	SW 4.6	NE 3.7	SE 3.2	NE 5.5	NE 4.1	NE 5.5	SW 3.1
18	M	NE 4.9	NW 3.8	SE 9.3	NE 6.3	SW 5.3	NE 4.9	SW 5.0	SW 4.3	SE 10.0	NW 6.1	SW 4.9
19	S 7.4	NE 7.4	NE 4.3	SW 5.9	NE 11.5	NE 4.3	NW 3.1	NW 2.6	SW 5.7	SW 11.3	SW 5.9	NW 4.1
20	SW 8.8	NE 6.7	SW 3.3	NE 9.8	NE 7.5	NE 5.0	SW 3.4	SW 4.0	NE 5.0	SW 7.4	NW 7.5	SW 6.2
21	NW 5.3	NE 3.3	NW 5.0	NE 10.0	SW 3.7	SW 3.4	NW 6.8	NE 3.3	NW 5.5	NW 3.2	NW 3.6	NW 3.8
22	SW 7.3	N 2.6	NW 6.5	NW 4.5	SE 5.1	NW 5.5	NW 4.0	NE 9.3	SW 4.2	NE 6.3	SE 10.5	SE 3.5
23	SW 5.4	SW 3.5	NW 5.3	NE 8.7	NE 9.2	NE 6.0	NW 4.9	SE 7.3	NW 4.9	S 6.4	SW 9.7	NE 4.3
24	W 2.7	SW 5.5	S 3.9	NE 7.5	NE 14.8	NE 4.7	SW 8.9	SW 5.8	SE 4.5	S 7.8	SW 3.4	NW 5.6
25	NE 4.4	S 7.2	S 6.3	NE 7.0	NE 12.0	SE 2.6	NW 10.1	NE 4.6	SE 8.2	SW 6.8	S 1.3	NW 4.2
26	NW 7.9	NE 7.3	SW 5.3	NE 6.1	NE 4.0	SE 6.3	NW 4.0	SW 3.0	SE 8.9	SW 6.1	SE 1.3	SW 3.1
27	NW 5.0	NW 13.8	SE 3.5	NE 7.1	SW 5.4	SE 5.3	SW 4.8	SW 4.8	SW 6.3	NW 7.7	NW 3.0	SW 4.3
28	NW 5.1	NW 8.2	NW 7.0	NE 5.0	SW 8.8	NW 6.0	NW 7.4	SW 5.2	NW 5.2	SW 7.8	NE 3.3	SW 6.9
29	NW 7.8				NE 3.3	SW 8.4	NE 4.8	NW 5.0	NE 5.0	SW 3.6	NE 4.1	NE 5.7
30	NW 8.3				SE 5.8	SE 6.0	NE 8.1	NE 7.1	SW 6.0	NE 5.5	NE 7.4	NE 2.8
31	NW 8.0					NE 6.1		SW 7.1	SE 6.8	SW 11.7		SW 8.8
Mean	(5.7)	5.8	5.6	7.5	7.0	5.4	6.4	5.4	6.4	5.5	5.5	5.2

Table 45 Daily abstract of wind in miles per hour for 1972 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	SW 5.9	NW 2.7	NE 7.6	NE 5.4	NE 9.2	NE 4.4	NW 7.0	NE 3.1	NW 5.7	NW 3.0	SW 5.2	SW 4.6
2	NW 3.3	SW 2.6	SW 4.5	S 6.1	NE 6.3	NW 5.7	NE 4.7	NE 5.9	SW 3.5	SE 4.0	NE 10.8	W 3.4
3	NW 4.5	NW 3.9	NE 5.7	NW 8.5	NE 5.7	NW 5.7	NE 4.2	SW 4.7	SW 8.0	E 3.5	SE 6.0	SW 3.8
4	SW 4.3	NW 3.8	NE 7.0	NW 7.1	NE 4.4	SW 5.2	NE 4.0	SW 9.5	SW 5.6	SW 3.8	W 2.7	SW 4.1
5	SW 6.5	NW 4.0	NW 3.5	NW 4.1	SW 4.9	NW 6.8	SW 3.7	NE 4.7	SW 6.0	NE 6.0	SE 3.8	SW 4.0
6	SW 7.2	NW 5.3	SE 8.3	NE 9.0	NE 7.3	SW 5.2	SW 4.2	NE 7.0	NW 8.1	SW 6.4	NE 8.2	SW 0.2
7	SW 5.1	NW 3.7	NW 8.3	SE 7.0	SW 3.5	SW 6.0	SW 4.0	SE 6.0	W 3.7	SW 9.1	NE 8.9	SW 4.2
8	SE 6.1	N 2.5	NW 4.9	SW 8.8	NE 4.1	NE 8.7	SW 6.0	NE 5.0	SW 4.1	NW 7.4	SE 4.9	SW 2.2
9	NW 6.4	SW 2.4	NW 5.9	SW 8.9	SW 3.5	2 9.3	NE 5.2	SW 3.5	SW 9.3	SE 8.2	S 4.5	SW 2.6
10	M	SW 7.6	SE 7.1	NW 6.5	SW 5.0	SW 5.5	SE 6.9	SW 7.5	SW 8.4	SE 9.4	SW 2.4	SW 5.4
11	M	SW 9.4	N 4.3	SW 2.7	SW 6.0	SE 5.8	SW 6.1	NE 4.7	NW 3.7	NW 7.3	NW 5.2	SW 5.8
12	M	NW 4.5	NE 3.0	SE 6.0	SW 5.5	NE 3.6	NW 4.8	NE 4.6	SW 3.1	SW 5.8	NE 4.0	SW 4.2
13	NW 5.3	SE 5.7	S 4.0	NE 6.0	NE 4.4	SW 5.4	SW 4.9	NE 6.3	NW 4.8	NW 7.3	NE 4.5	SW 3.3
14	NW 3.7	NW 7.8	SW 7.4	SW 6.0	NE 3.9	SW 9.0	NW 0.4	NE 6.8	SW 8.4	NW 6.9	SE 2.3	SW 3.9
15	SW 5.3	NE 3.0	SW 3.5	SW 5.0	S 6.0	NE 6.2	SW 4.1	SE 6.1	NW 6.4	SW 6.8	S 6.1	NW 5.4
16	SW 11.2	SE 4.7	NW 7.1	NW 6.3	SW 7.1	SW 3.3	SW 5.7	NE 2.5	SW 9.6	NW 11.5	SW 4.4	SW 4.2
17	SW 5.3	NE 8.4	NE 5.3	SE 2.9	NE 7.2	SW 8.2	SW 5.4	NW 2.4	NW 3.3	NW 7.1	W 3.6	SW 7.7
18	NW 7.0	NW 7.9	S 3.7	M	SE 7.2	SW 9.5	SW 3.8	NE 2.0	SE 2.3	NW 5.6	S 2.2	SW 4.4
19	SW 4.0	NE 5.5	E 1.2	M	SW 7.1	NE 6.8	SW 5.2	S 2.7	SE 9.7	SW 9.5	SW 2.7	NW 4.7
20	NW 3.8	SE 5.8	SE 5.3	M	NE 4.3	NE 7.0	NW 5.2	SE 5.2	SW 10.2	SW 9.3	NW 4.2	SE 5.0
21	SE 4.1	NW 7.4	NW 6.5	SE 6.2	NE 4.8	NW 3.8	SE 3.9	NE 8.5	SW 11.2	NW 2.8	W 2.0	SE 3.1
22	NW 5.1	NW 1.7	NE 8.9	NE 8.3	SE 6.9	SE 4.0	SE 4.5	NE 5.5	SE 8.9	NE 7.1	SW 6.7	SW 5.3
23	NW 2.7	NE 6.6	NE 5.8	NE 9.7	SW 5.0	SE 5.2	SW 7.9	NE 2.5	NE 5.4	E 5.0	SW 7.3	NW 4.6
24	NE 8.2	SW 3.7	NE 4.4	NE 3.8	SE 4.3	E 5.5	NW 7.0	NE 3.7	SW 9.4	SW 7.1	S 3.5	E 3.8
25	NW 7.3	SW 4.1	NE 6.4	S 4.3	SE 5.1	E 4.3	NE 2.8	NE 2.3	E 7.3	SW 7.8	NE 6.4	NW 4.2
26	SW 5.8	NW 4.2	NE 8.1	SW 3.1	S 4.4	SE 6.1	SE 2.1	N 0	NE 4.7	NE 5.2	NW 3.7	S 4.8
27	SW 3.0	NE 3.1	NE 7.4	SW 2.7	S 4.5	SW 5.8	NE 2.2	NW 4.1	SE 7.0	NE 9.6	NW 3.6	NW 3.0
28	SW 5.2	NW 3.7	SE 3.5	SE 3.5	NE 7.2	SW 3.5	SW 3.8	SW 4.1	SW 9.4	NW 5.3	W 4.1	E 3.8
29	SW 3.3	NE 6.0	SW 2.0	S 4.9	NE 9.0	SW 3.5	SW 6.3	SW 5.5	W 5.0	SE 3.5	SW 8.9	E 10.2
30	SW 3.9	NW 5.3	SE 3.9	NE 4.6	SW 8.2	SW 6.4	SW 10.2	SW 4.9	E 2.8	NW 3.9	NE 14.0	
31	NW 3.7	NE 7.6				NW 6.2	SW 9.9	SW 4.2				NE 7.3
Mean	(5.4)	5.1	5.6	(5.9)	5.6	6.0	5.0	5.1	6.5	6.5	5.0	5.2

Note: i. Values shown are mean hourly velocities in miles per hour for each day and month.

ii. Daily directions shown are based on prevailing hourly directions as determined from the anemograph charts for each day.

iii. Brackets indicate a mean monthly value that is based on less than a full months record.

iv. - indicates a missing prevailing wind-direction.

v. M indicates that both velocity and direction are missing.

Table 46 Daily abstract of wind in miles per hour for 1973 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	SW 4.7	S 3.4	NW 2.4	E 8.3	NE 11.3	SE 7.5	S 5.1	SW 2.3	- 3.3	SW 7.3	NE 6.2	SE 7.9
2	SE 7.2	SW 3.2	SW 8.0	NE 9.0	NE 10.7	SE 9.3	SW 11.4	SW 2.0	NE 8.8	S 5.2	NW 7.0	SE 2.8
3	NW 5.0	SW 2.6	SW 8.8	NE 9.9	NE 6.7	SE 8.0	SW 9.6	S 3.8	NE 7.0	SW 9.2	NW 5.4	NW 5.8
4	NW 4.8	NE 1.8	SE 4.6	NE 5.8	E 4.5	SW 12.7	NW 6.6	SW 6.9	SW 6.8	SW 5.2	NW 7.4	NE 7.8
5	N 1.3	SW 7.8	SE 6.4	NW 8.0	SE 7.4	SW 6.7	SW 5.6	SE 3.3	NW 8.3	SE 4.1	NW 8.3	NE 9.2
6	W 1.0	W 6.3	SE 4.4	NE 5.9	SW 5.2	NW 5.8	SW 5.6	SW 3.7	NW 6.7	SW 8.0	NW 3.6	SW 5.1
7	NW 0.8	W 4.0	NW 5.8	NE 8.9	SW 3.8	SE 5.5	M	SW 3.5	NE 3.4	SE 6.0	NW 6.0	SW 8.4
8	SW 2.8	SW 1.9	NE 4.3	NE 7.5	NE 6.3	M	SW 6.0	NE 5.2	SE 4.2	SE 7.2	NW 7.0	SE 5.9
9	SW 5.4	NW 4.8	SW 8.3	NE 6.9	NE 6.2	M	NW 6.0	SW 5.7	SW 7.4	SE 6.1	NW 4.4	NE 10.8
10	NW 5.8	S 0.5	SW 7.8	SW 3.9	NE 3.7	M	NE 4.3	NW 5.7	NW 9.3	NW 4.8	SW 5.8	NE 3.9
11	SW 3.7	S 7.6	NE 8.5	NE 0.8	NE 6.7	M	SE 5.7	NW 3.8	NW 7.0	E 11.4	SW 6.2	S 3.8
12	SW 5.0	SE 5.2	NE 5.4	NE 4.4	NE 8.5	NW 6.0	SW 7.9	NW 3.8	NE 3.5	SW 11.6	E 7.1	NE 9.0
13	SW 2.6	NE 8.1	E 4.7	SW 8.2	NE 8.5	SW 4.4	NW 8.2	NE 4.9	SE 3.6	SW 8.3	E 8.6	NE 8.2
14	S 2.3	NE 8.7	NE 11.3	SW 10.0	SW 5.8	SE 5.1	NE 6.8	S 4.4	NW 5.1	SW 5.1	E 6.6	NE 5.3
15	SW 6.7	NE 4.1	NE 8.0	NE 4.7	SW 8.9	SE 6.0	SW 3.2	SW 5.0	NE 7.3	NW 9.6	NE 6.2	NE 4.2
16	SW 3.9	SW 6.8	NE 5.0	NW 5.3	NW 8.2	SE 7.4	SW 9.4	S 3.8	SW 4.4	NW 8.4	SE 3.1	NE 4.0
17	SE 3.2	SW 5.7	E 4.9	NE 6.2	SW 5.8	SE 5.4	SW 5.8	SE 3.3	NW 4.7	SW 2.6	SE 3.8	NE 3.0
18	NW 5.7	SW 7.0	E 5.7	NE 7.0	NE 4.1	SE 5.7	SW 3.8	SE 3.0	SW 4.3	SE 0.4	W 3.0	NE 3.7
19	NE 4.4	NE 0.1	E 4.2	SE 9.2	NE 4.5	SE 7.4	NE 5.2	NW 7.9	NE 7.9	NW 5.4	W 2.6	NW 3.2
20	SW 5.2	SW 0.0	SE 3.3	SE 7.3	E 4.8	SW 4.8	NE 2.5	NW 4.0	SW 2.3	SW 8.0	NE 7.2	S 2.6
21	S 4.4	SW 0.4	SE 7.2	SW 8.7	SE 7.1	NE 5.2	S 1.8	S 3.2	E 6.9	SW 5.9	S 9.9	SW 8.9
22	NW 6.4	NE 0.2	SW 7.0	SW 7.0	SE 4.9	SE 1.8	SE 5.4	S 4.0	NE 7.0	SW 4.4	SW 10.9	NE 6.3
23	SW 4.2	NE 5.2	S 3.1	NW 3.9	NE 5.2	SW 3.2	SE 5.8	E 3.7	SE 5.4	SE 7.9	SW 5.4	S 4.6
24	SW 5.8	NE 2.1	NW 3.6	NW 2.9	NE 10.3	SW 6.0	SE 6.5	SE 12.2	SE 6.6	SE 3.2	SE 3.0	SE 3.0
25	SW 2.9	NE 4.7	N 3.0	NW 3.6	NE 10.7	SW 7.5	NE 4.2	SW 6.2	SW 7.4	NW 5.7	SW 6.5	NE 4.9
26	NE 7.1	SW 6.0	SW 7.2	NE 6.1	E 6.8	NE 4.8	NE 10.3	SW 3.5	SW 2.8	E 2.8	SE 6.8	NE 3.7
27	NE 8.2	NE 4.9	SW 8.4	NE 4.0	NW 8.6	NE 7.5	NE 5.2	SW 5.4	E 4.0	SW 6.7	NE 2.7	
28	SW 4.1	SW 3.1	SW 6.3	NE 4.3	NE 9.1	NW 6.2	SW 3.3	SW 7.4	SW 6.4	SW 3.9	NW 3.9	SW 4.9
29	SW 2.7		E 3.5	NE 5.2	NW 4.6	NE 6.0	SW 3.5	SW 5.2	S 4.1	SW 9.4	SW 7.7	NW 4.5
30	E 4.1		SW 2.2	NE 6.7	SW 5.9	NE 4.3	NE 6.6	SW 5.9	SW 8.6	SW 3.7	NW 4.0	NW 3.7
31	SE 8.4		E 0.2		NE 4.5		NE 3.4	SE 8.2		SE 2.9		W 3.3
Mean	5.6	5.4	5.8	6.5	6.8	(6.2)	(5.9)	4.7	6.2	6.3	6.0	5.4

Table 47 Daily abstract of wind in miles per hour for 1974 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	SW 2.1	S 2.0	SE 5.9	SE 6.5	SE 8.7	SW 6.0	SW 5.4	W 3.8	NW 4.5	NW 5.3	M	SW 4.5
2	SW 4.2	NE 5.8	SE 8.5	NE 3.0	NW 7.0	SW 6.5	NE 2.8	NE 9.3	NW 4.9	SW 9.6	SW 6.5	NE 5.3
3	SW 4.2	NE 5.0	SW 7.2	NE 7.0	NW 5.5	SW 8.3	NE 7.4	NE 6.3	SW 5.8	SW 9.0	NW 5.6	SE 6.8
4	SW 3.9	SE 5.1	SW 5.6	NE 6.2	SW 4.2	SW 6.3	S 2.7	NE 5.1	SW 7.2	NE 9.0	NE 3.2	SW 5.9
5	SW 0.0	E 3.9	SW 3.0	SW 3.1	NE 8.1	SW 5.2	SW 5.4	SW 1.2	SW 8.2	NE 7.5	SW 6.2	SE 5.3
6	SW 0.0	SW 5.2	SW 8.0	NE 7.2	NE 4.8	SW 1.4	S 5.1	SW 4.4	SW 7.3	NE 5.2	SW 8.3	SW 5.7
7	NW 2.9	NW 2.9	E 4.4	NE 3.9	SE 5.2	SW 2.2	SE 5.0	SW 6.6	SW 6.6	SW 8.0	SW 5.6	N 8.7
8	S 3.5	N 2.0	SE 7.0	SW 3.5	SE 6.1	NW 5.4	NE 5.6	S 4.7	NW 5.0	NE 4.7	SE 8.7	S 5.1
9	SW 3.8	NW 5.8	NW 7.6	SW 4.6	SE 5.4	NE 10.6	NE 9.3	SE 7.5	NE 4.0	SW 7.3	SW 6.1	SW 8.9
10	S 2.3	SW 6.7	SW 6.0	NE 6.5	SE 7.5	NE 8.2	SE 8.8	SW 7.0	SE 6.3	SE 5.2	NE 3.3	NW 3.2
11	SW 4.4	SW 5.8	E 6.6	NE 7.2	NE 14.3	NW 8.7	SE 8.1	SE 7.0	NE 6.8	NE 7.5	NE 7.3	NW 4.7
12	SW 4.4	NE 5.7	E 0.8	NE 12.8	NE 8.2	NW 7.3	SW 6.0	NW 8.0	NE 6.4	SW 5.1	NW 9.5	NE 4.1
13	S 7.-	N 2.9	SE 7.3	NE 9.0	E 3.4	NW 4.0	SW 4.0	E 4.1	SW 6.0	SW 9.3	NW 9.0	NE 4.0
14	NW 6.7	S 2.4	SE 8.7	NE 7.7	NE 4.1	NW 6.0	NW 6.8	SE 7.4	NW 8.1	NW 9.0	E 3.7	
15	NE 4.6	SW 8.6	NE 7.2	NE 5.1	SW 5.3	NE 10.7	SW 4.0	SW 11.4	SW 5.2	SE 4.6	SW 5.8	NE 5.0
16	NE 6.8	NW 3.8	NW 7.0	SW 7.8	SW 5.2	NE 8.7	SW 5.6	SW 7.2	SW 5.0	SW 8.4	SW 5.1	NE 6.5
17	SE 8.8	SE 7.2	S 4.1	NE 6.8	- 5.5	NW 6.8	SE 4.5	SW 4.6	NE 5.0	NE 5.3	SW 7.8	S 3.2
18	NW 5.7	SW 5.5	NW 6.4	SW 4.2	M	NW 3.4	NW 5.0	NE 3.7	SW 5.9	SE 2.1	SW 4.1	S 3.8
19	SE 8.2	NW 3.0	N 4.2	SW 10.4	SE 7.7	NW 5.7	NE 7.7	SW 5.2	NW 5.0	NE 4.4	NE 8.4	NE 2.5
20	NE 5.9	N 2.4	SW 6.4	NE 6.0	- 0.4	NE 4.3	SE 7.3	NE 6.0	NW 0.1	SW 7.9	N 5.3	E 2.2
21	NE 0.2	NE 4.3	NW 5.9	NE 12.3	- 6.1	NE 0.9	SW 0.9	NE 7.8	NE 0.4	SW 10.2	SE 6.5	S 2.4
22	SW 2.0	NE 7.1	NW 4.7	NE 11.4	SW 5.0	NE 6.4	NE 5.0	NW 4.0	SW 4.0	NW 5.7	SW 7.3	NE 8.8
23	NE 1.7	NE 0.2	W 5.9	NE 5.0	NE 0.3	NE 3.7	SE 5.0	SE 3.6	SW 8.1	SW 6.3	N 5.3	NE 10.4
24	NW 3.0	SW 2.9	SW 5.2	SW 7.8	NW 3.5	SW 2.0	SE 7.2	SE 7.9	NW 7.1	NW 9.5	N 5.4	NE 3.6
25	SE 4.5	SW 3.4	SW 4.4	NE 4.0	NE 4.6	SW 5.4	SW 6.2	SW 8.2	SW 6.6	M	SE 6.0	SW 6.1
26	NE 5.7	SW 3.1	NW 6.3	SE 5.7	NE 3.2	SW 7.4	NW 10.0	SW 8.1	SE 7.4	M	SW 9.0	SW 7.4
27	SW 4.0	NE 5.8	W 2.8	NE 6.5	SE 5.9	SW 8.8	NW 11.0	NW 0.2	NE 7.4	M	SW 5.1	SW 8.2
28	NE 3.4	NE 0.9	SE 7.8	SW 7.3	NW 4.3	SW 8.4	NW 8.7	NW 5.6	NE 4.5	M	NE 7.4	SW 3.5
29	NW 4.0	S 4.8	SW 5.0	NW 6.7	NW 7.4	NW 8.4	NW 0.3	S 7.0	M	NE 3.5	SW 4.7	
30	NE 5.0	NW 5.8	SW 6.0	SW 3.0	NW 6.9	NW 7.0	SW 10.7	NW 8.4	M	S 2.3	SW 7.5	
31	N 5.8	NE 7.9			NW 3.4	NE 5.4	NW 5.2		M			
Mean	4.8	5.0	6.1	6.9	(6.0)	6.4	6.4	6.4	6.2	(7.0)	(6.1)	3.7

Note: 1. Values shown are mean hourly velocities in miles per hour for each day and month.

2. Daily directions shown are based on prevailing hourly directions as determined from the anemograph charts for each day.

3. Brackets indicate a mean monthly value that is based on less than a full months record.

4. - indicates a missing prevailing wind direction.

5. M indicates that both velocity and direction are missing.

Table 48 Daily abstract of wind in miles per hour for 1973 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	NW 5.0	NE 2.8	NW 6.0	NW 0.0	NW 3.0	NW 5.8	SW 3.7	SW 6.3	- 6.8	SW 4.9	SW 8.6	SW 4.4
2	NW 7.5	N 3.0	NE 6.5	NW 4.5	NW 5.8	NW 5.9	NE 4.6	SW 6.7	- 9.0	SW 8.5	SW 6.4	NW 4.2
3	NW 5.2	E 7.2	N 4.5	NE 5.4	S 3.3	NE 6.0	NE 3.5	SW 6.3	- 7.0	E 4.7	SW 9.3	SE 6.2
4	W 3.5	NE 5.4	SE 3.3	NE 0.3	NE 5.8	SE 7.9	W 4.0	NE 5.4	- 5.0	SE 9.3	SW 6.0	SW 9.3
5	SE 3.0	N 5.8	NE 2.0	NE 9.0	NE 8.4	NW 5.9	SW 4.5	NE 4.7	- 4.4	SW10.0	SW 5.8	NW 8.2
6	NE 2.5	M	W 4.2	SE 8.5	NE 9.3	NE 6.2	NE 5.6	SW 9.2	- 4.7	SE 7.7	SW 8.9	S 6.9
7	SE 3.9	M	NW 7.5	SE 8.9	SE 8.7	NE 4.6	NW 7.7	SW 9.6	- 8.0	NE 9.0	NW 4.8	SW 4.1
8	S 3.0	NW 5.0	SW 4.8	- 9.0	NE 6.5	SE 3.1	NW 7.4	- 9.8	- 3.5	SE11.7	SW 5.2	S 4.5
9	E 4.8	SW 4.2	- 4.6	- 6.2	SE 4.0	SE 5.5	NW 8.2	- 7.7	- 0.9	SW 7.5	NE 4.0	SW 7.9
10	NE 8.9	NE 5.8	- 3.8	NE 3.1	NW 6.8	SE 7.6	NW 6.9	- 5.0	- 5.3	NE 3.2	NW 5.3	NW 6.7
11	NW13.2	NE 4.7	SW 4.8	S 3.5	NE 7.0	N 4.2	NE 8.2	- 3.5	NW 6.9	SE 4.0	NE 8.8	NW 3.8
12	NW 8.2	NW 6.1	NW 7.0	E 2.3	SW 6.1	NE 6.2	SW 6.0	- 6.0	NW 5.8	SE 4.2	NE10.2	NE 6.1
13	NW 3.0	N 3.4	SW 7.5	SE 6.3	SW 7.8	SW 5.2	SW 5.5	- 7.1	S 4.4	NE 8.1	SW 6.1	NW 7.1
14	SW 4.4	NE 1.1	SW 6.3	SW 3.0	NE 9.2	NW 5.7	SW 4.8	- 2.8	SW 8.2	SE 8.2	SW 9.0	NW 4.8
15	NW 3.8	- 2.6	SW 6.0	NW 3.7	SW 4.0	NE 5.4	SW 7.8	- 4.7	NE 6.8	NW 5.4	W 3.9	SE 4.8
16	NW 4.2	- 4.5	S 7.0	SW 2.7	SW 8.6	NW 5.5	SW 7.2	- 7.6	SE 3.5	SE 2.7	SW 5.5	N 6.8
17	S 0.1	- 4.2	SW10.5	SE 4.7	SW 7.4	NW 4.0	SW 9.3	- 6.4	SE 8.7	S 5.1	W 3.6	W 3.1
18	NW 0.2	- 4.2	SW 6.8	NE 5.2	SW 7.1	N 3.5	SW 6.8	- 4.7	SE 8.2	SW10.1	NE 9.7	SW 3.4
19	NW 0.1	SW 0.3	NE 8.9	NE10.6	SW 6.8	SE 8.0	NW 6.8	- 4.4	NE 6.9	- 6.7	NE14.3	NE 4.3
20	S 0.3	SW 5.5	SE 6.1	SW 4.3	SE 5.5	SE 9.2	SW 4.9	- 6.6	NE 9.9	- 6.4	NE10.8	SW 4.9
21	NE 7.0	S 7.2	SW 8.7	SW 6.2	NW 5.4	SW 3.4	NW 6.3	- 4.2	NW 6.7	SW 6.7	NW 5.5	SW 6.3
22	SW 6.6	NW 6.2	NE 8.2	SW 6.2	NE 6.2	SW 8.7	NW 4.6	- 7.0	NW 5.1	SW 3.8	NW 6.2	NW 3.8
23	S 3.1	N 3.6	NE11.7	NE 5.1	SE 7.8	SW 6.2	NE 4.5	- 6.4	NE 5.2	NE 6.5	NW 5.0	SW 5.6
24	SE 8.0	S - 6	NE18.0	NE 5.7	SW 9.3	S 5.1	NW 7.9	- 8.9	SW 5.1	NE12.6	NE 4.0	SW 4.8
25	NE11.2	NW12.0	NE 9.6	NE 6.9	SW 7.4	SW 8.6	SW 7.2	- 10.0	SW 7.0	NW 7.1	NE 2.9	NW 2.9
26	NW 1.8	NW 7.7	SE 9.1	SE 9.3	SW 6.2	SW10.2	NW 8.6	- 4.8	S 3.5	S 3.9	S 4.8	S 3.5
27	SW 4.9	NW 3.2	SE11.4	SE12.0	SW 5.3	SW 5.3	NW 6.2	- 2.9	S 4.4	SW 5.7	S 3.2	S 4.0
28	SW 3.0	NW 5.7	SW 7.5	SE13.8	SW 4.8	SE 8.6	SW 6.9	- 6.1	S 4.0	NW 4.3	S 5.4	SW 4.0
29	NE 5.4	NW 9.0	NE12.9	NW 6.2	SE 6.0	SW 7.3	- 6.8	SW 6.2	S 4.9	SW 7.6	SW 4.0	
30	W 2.4	NW 6.5	NE 7.0	NW 6.2	SW 5.8	SW 8.7	- 6.5	NW 8.1	SE11.2	NW 8.6	NE 2.9	
31	SW 3.3		NW 5.1		NE 5.6		SW 8.7	- 6.6	NW 4.5		NE 7.0	
Mean	5.5	(5.1)	7.3	5.7	6.6	6.2	6.5	6.3	6.3	6.7	6.6	5.2

Table 49 Daily abstract of wind in miles per hour for 1976 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	NE 4.9	NW 4.9	NE12.4	M	N 7.5	S 3.5	NE 3.9	NE 6.1	E 4.2	NE 6.0	S 7.8	NE 4.9
2	NE 6.6	SW 3.5	SW 6.6	NE 9.8	NE10.5	SW 3.7	SE 3.0	NW 6.3	SE 9.1	E 4.7	NW10.2	SE 3.8
3	NW 6.8	NW 5.2	SW 4.1	E 6.5	SW 6.2	SW 5.8	SW 3.2	SW 6.9	NW10.5	ELL.1	NW11.7	SE 2.5
4	SW 5.5	W 4.6	N 5.4	SW 5.4	SW10.0	SW 5.8	SW 4.2	NE 7.1	NW 5.7	W 9.9	SW 6.5	NW 4.0
5	SW 3.6	SW 5.8	NW 7.2	N 5.1	NW 9.3	SW 8.0	SW 7.2	NE 6.0	S 8.7	W 9.2	NW 9.3	SW 4.5
6	NW 5.5	SW 6.8	NW 6.3	N 2.1	NW 5.4	SW 7.8	W 5.0	W 4.7	SW 6.4	NW 5.4	NW 9.3	N 5.3
7	W 5.9	NW10.6	NE 3.4	N 1.5	N 4.5	W 3.3	NE 4.1	SW 6.1	S 9.9	NW 5.3	NW 5.5	NW 4.1
8	NW 5.3	SW 7.9	NE 6.4	S 1.2	NW 7.2	NE 3.6	SW 6.4	SW 6.3	NW 6.0	NW 6.9	SW 7.7	W 3.0
9	NW 3.0	SW 9.8	SW 4.4	SW 1.0	SW 9.2	SE 5.3	W 5.6	SE 8.4	NW 5.2	E 1.8	NE 9.0	NE 6.9
10	SE 4.6	NW 6.5	NE 5.8	NE 4.3	NW 8.8	NW 7.0	W 7.3	W 4.5	W 6.5	- 4.8	NW 6.7	NW 6.5
11	S 3.8	SW 5.6	NE 9.0	NE 4.0	E 5.4	SE 7.7	NE 7.0	SW 5.2	W 3.3	- 6.2	NW 6.6	SW 8.5
12	S 7.5	NW10.0	SW 8.3	SW 4.8	S 7.4	SE10.2	SE 5.2	NE 5.9	SW 5.4	NW 6.5	NW 6.4	M
13	NW 5.9	W 4.7	NW 6.6	S 2.8	NW 6.4	SW 9.9	SE 7.6	NE 5.3	NE 9.2	NW 6.1	SW 9.8	M
14	NW 5.0	S 7.6	NW 6.7	SW 6.2	S 4.6	NW 7.0	W 6.1	E 5.5	E 3.8	NW 8.6	SW 3.9	M
15	S 4.7	NE 7.0	NW 4.9	S 5.4	NE 4.2	NE10.0	NW 6.5	S 3.8	S 4.9	NE 9.8	SW 4.0	S 2.5
16	W 4.7	S 2.9	SW 5.3	NE11.5	N 7.8	SW 5.8	NW 7.1	S 6.2	SW 5.2	NE 6.2	S 6.9	SW 7.5
17	SW 4.9	S 5.4	SW 6.2	SW 8.9	NE 5.1	NW 6.7	NW 5.8	S 8.2	SW 5.7	N 2.8	NW 5.0	SE 5.1
18	SW 9.0	NE 5.4	NE 4.7	SW 7.0	S 5.9	NE 7.0	SW 6.6	SE 4.9	SW 8.0	N 2.2	NW 8.8	- 7.5
19	NE 7.5	E 4.5	NE10.1	SW 7.0	SW 7.8	NW 6.5	NE 4.5	SW 7.5	NE 8.8	NW 6.3	NW 4.4	NW 7.3
20	SW 0.3	M	SW 6.0	NE 4.8	NE 8.6	SW 6.7	- 6.1	SW 8.1	NE 7.8	NW 6.3	NW 2.1	N 5.2
21	NW 5.7	M	SW 8.0	NE 7.7	NE 6.2	W 3.0	NE 4.4	NW 5.8	NE 5.4	NW 6.6	NE 7.3	SW 7.5
22	SE 1.4	M	SW 5.2	NE 6.5	NE 6.5	NE 6.5	SW 8.5	N 5.0	NE 7.7	NW 5.3	NW 7.0	SW 7.8
23	SE 3.6	SW 3.0	SW 6.1	NE 7.3	NE 6.8	SE 5.8	NW 7.0	S 5.5	NW 5.5	NW 3.7	SW 4.1	NW 4.8
24	NE 2.9	SW 5.2	SE 5.2	NE 3.2	NE 3.6	SE 8.2	N 4.4	SW 3.7	NE 6.2	NW 4.0	- 5.3	SW 6.0
25	NE 4.9	NE 9.0	NW 4.8	NE 6.2	S 5.7	E 5.1	SE 8.7	SW 6.0	E 4.9	NE 6.7	NW 4.5	W 2.9
26	NW 6.2	NE 8.2	SE 4.3	N 8.3	S 7.1	SE 3.0	NW 6.8	SW 5.0	NE 7.6	NE 4.2	NW 5.9	NW 3.3
27	S 8.0	NE 7.0	SE 8.9	NE 5.8	S 5.7	SW 7.5	SE 4.9	W 9.9	W 4.5	SW10.5	NW 3.9	NE 5.5
28	NW 9.2	NE 5.5	NW 4.8	SW 4.2	S 5.0	W 3.4	NW 5.9	NW 6.3	W 8.6	SW 9.3	NW 3.9	W 5.4
29	NW 5.0	NE 7.9	N 8.0	SW 4.9	S 3.3	NE 7.6	S 4.4	SW 4.0	NE 4.8	SW 3.8	NW 5.2	NE 5.2
30	SW 5.1	N 5.0	NW 6.7	S 3.3	NE 3.1	NE 6.8	NE 5.8	W 4.9	NE 4.9	NW 4.7	N 4.0	
31	NE 6.9	S 4.7			S 4.8	NE 4.3	NE 0.9		SW 3.5		NW 5.2	
Mean	5.9	6.6	6.3	(5.5)	6.4	6.2	5.8	6.3	6.5	6.1	6.4	(5.5)

Note: 1. Values shown are mean hourly velocities in miles per hour for each day and month.

2. Daily directions shown are based on prevailing hourly directions as determined from the anemograph charts for each day.

3. () brackets indicate a mean monthly value that is based on less than a full months record.

4. - indicates a missing prevailing wind direction.

5. M indicates that both velocity and direction are missing.

Table 50 Daily abstract of wind in miles per hour for 1977 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	W 3.5	SW 4.6	W 7.5	S 5.3	NW 9.1	NE 7.2	NW 8.5	NE 4.5	SW 3.7	N 5.4	SW 5.2	NW 6.3
2	S 2.8	W 5.0	W 3.5	N 7.8	NE 4.0	SW 4.3	SE 6.0	NW 4.9	SW 5.6	N 3.0	SW 9.4	NW 5.3
3	NW 3.0	NW 5.0	E 8.4	NE 5.5	S 7.8	SW 8.0	NW 7.4	NW 5.0	S 4.4	W 3.4	SW 7.0	NW 4.1
4	W 2.2	N 0.6	NE 9.9	NE 9.2	SE 8.7	NW 5.5	SE 4.0	SW 4.8	NE 5.2	W 3.0	SE 3.3	NE 7.0
5	SW 4.8	N 5.1	N 5.3	N 5.7	NE 6.9	NE 4.0	NE 6.3	NW 4.7	NE 3.1	W 3.4	SW 6.6	NE 9.5
6	NW 5.8	N 4.3	SW 5.3	W 4.7	- 6.0	NW 4.6	NW 3.7	SW 7.2	E 6.3	E 4.6	SE 6.3	N 7.5
7	NW 3.9	SW 7.3	SW 0.1	N 6.2	M	NE 4.4	SW 6.0	NE 4.2	SW 4.9	E 6.7	S 6.8	NE 6.3
8	W 4.2	SW 5.6	SW 5.8	W 4.4	M	NE 7.2	NW 6.3	NW 4.0	E 6.3	NE 6.3	N 7.4	NE 11.7
9	S 4.1	E 3.7	W 6.3	SE 7.8	SW 7.2	SW 7.3	SW 3.6	SW 3.6	NW 9.7	SW 3.0	N 18.7	N 8.1
10	N 3.2	SW 5.0	E 6.0	NE 6.6	SE 6.1	SA 7.1	SW 9.8	SW 9.3	NW 4.3	NE 6.6	N 12.2	W 2.2
11	W 2.8	SE 4.6	S 6.5	NE 6.9	SW 6.6	NE 7.0	SW 8.3	NW 8.6	NW 5.2	N 12.4	N 7.2	SI 0.3
12	W 4.3	NW 8.3	NE 16.2	S 4.5	SW 5.1	SE 3.7	NW 6.0	NW 6.2	W 3.1	W 4.2	SW 8.2	SE 4.0
13	S 2.2	NW 7.9	NE 6.0	SW 3.7	W 5.3	SE 6.3	SE 7.8	NW 6.1	W 3.2	SW 9.7	SW 5.0	NW 3.2
14	N 4.0	NE 7.8	SW 6.2	S 7.8	S 3.1	NE 6.8	NW 6.9	NW 4.0	SW 6.0	NW 6.4	S 3.8	SE 2.6
15	NW 4.6	S 3.7	W 7.2	S 5.0	SE 7.5	SE 4.0	SW 5.5	SW 4.6	SW 7.7	W 4.9	SE 3.8	E 4.0
16	W 3.2	SW 8.3	W 0.5	S 3.5	SW 8.9	NW 3.4	SW 7.5	NW 4.8	S 8.3	SW 8.3	NW 6.1	SE 9.0
17	N 7.8	NW 5.0	E 4.5	SE 3.3	NE 4.7	NE 3.5	NE 8.2	NW 6.4	SW 6.4	W 7.4	N 8.1	NE 12.0
18	N 3.0	N 6.0	SW 4.3	NE 8.1	SE 5.2	NW 6.4	SW 7.0	NW 4.9	NE 9.0	N 5.5	NW 3.2	SE 8.3
19	W 3.5	W 2.7	W 8.2	NE 6.4	SE 3.4	NW 5.9	SW 6.0	SW 3.4	NE 6.8	SW 6.6	SE 4.3	SW 3.1
20	NW 4.5	N 4.4	NW 5.7	W 4.2	SW 5.6	NE 4.4	NW 5.8	NW 5.5	E 4.9	NW 5.4	NE 16.0	N 6.3
21	N	SW 7.3	NW 7.8	NW 6.2	SW 4.7	SW 4.1	NE 4.5	NW 4.3	E 5.7	NW 5.8	NW 9.2	NW 4.5
22	M	S 3.2	NE 7.3	E 4.2	NE 6.2	SW 6.9	SW 6.5	NW 6.6	E 6.7	S 3.1	SW 6.1	N 2.1
23	NW 5.2	E 10.1	E 3.5	NW 9.5	NW 3.4	SW 3.5	SW 5.6	NW 5.8	E 8.3	SW 8.0	NW 4.5	SW 4.3
24	NW 4.8	NE 9.9	E 10.8	NE 6.4	SE 5.3	NW 5.7	NE 6.4	SE 4.2	E 13.4	SW 7.8	NW 6.3	NW 3.2
25	SW 6.9	N 7.1	E 8.0	W 5.1	SE 7.8	SW 5.3	NW 7.0	NW 10.3	N 4.3	SW 10.4	SW 4.7	NW 4.6
26	NW 10.3	N 5.2	NE 3.7	N 5.9	SW 9.4	NW 6.7	NW 4.3	SW 4.4	NW 4.7	W 6.3	SE 2.7	NW 4.4
27	NW 5.1	N 6.3	SW 5.9	NE 8.6	SW 6.9	NE 3.6	SW 5.4	NE 3.6	NW 4.1	W 5.5	SW 1.9	SW 4.3
28	NW 9.5	NW 6.4	E 9.0	S 3.6	SE 5.3	NW 7.1	W 4.0	NW 4.5	NW 4.4	S 5.1	SW 5.0	NW 4.3
29	NW 9.3	NE 18.0	S 5.0	SE 3.9	SE 4.9	NE 6.3	SE 6.2	N 5.3	S 9.4	SW 9.3	NW 2.6	
30	NW 9.5	NE 12.0	SW 9.2	SW 4.9	NW 6.0	SE 8.2	SW 8.0	NE 6.7	S 11.8	SW 8.5	NW 3.2	
31	NW 7.8	SW 6.1		NE 5.1		NW 8.9	NE 5.1			SW 8.3		NW 2.5
Mean	(5.1)	6.2	7.4	6.1	(6.2)	5.6	6.4	5.7	5.9	6.7	7.0	5.6

Table 51 Daily abstract of wind in miles per hour for 1978 from the Rawson Lake meteorological station in the Experimental Lakes Area.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	SW 6.9	NW 4.5	SW 4.4	NE 10.3	E 3.1	NW 6.7	E 6.3	SW 6.3	SW 8.5	S 7.1	SW 8.1	SW 6.1
2	NW 6.0	SW 3.0	NW 4.8	SE 9.8	SW 5.3	NW 4.0	S 5.5	NW 7.0	NW 5.6	SW 5.8	NW 5.3	SW 3.3
3	S 2.3	S 5.8	NW 6.3	SW 3.8	SW 4.5	N 5.0	SW 4.7	NW 7.1	SW 6.3	N 3.9	NW 5.8	S 3.5
4	N 2.8	N 0.9	SW 4.5	NW 5.7	S 4.3	N 6.2	S 6.6	SW 7.6	- 5.2	NW 3.7	S 7.8	SW 7.5
5	NE 4.3	NE 5.3	NW 3.2	SE 5.3	SW 6.1	SW 7.4	SW 7.7	N 5.8	SW 5.0	N 6.9	- 15.3	NW 7.8
6	NE 8.0	NE 6.3	NW 3.1	SW 9.9	SE 5.9	NE 7.2	W 6.2	SW 7.9	N 9.4	N 7.1	SW 7.1	NW 5.2
7	NW 4.6	NE 7.3	SA 4.3	NW 5.3	SE 6.6	SW 3.6	N 7.0	SW 6.7	- 8.6	SW 3.9	NW 9.5	SW 4.8
8	N 8.0	NE 4.4	SW 9.1	SE 7.2	NE 7.1	NE 7.2	SW 4.7	NW 7.3	- 8.7	SW 8.2	NW 7.4	SW 4.6
9	N 6.0	NW 4.0	NE 6.5	SE 3.3	N 6.1	SW 8.0	NW 7.7	NW 5.0	S 0.0	N 3.3	N 6.4	
10	SW 5.6	NW 6.2	SW 5.3	SW 2.9	S 6.3	SW 8.0	W 4.3	SW 7.2	S 4.4	SW 8.2	N 9.1	SW 3.3
11	SW 4.7	N 5.8	NW 6.4	NW 4.5	NW 5.0	NW 7.8	SW 7.0	SW 8.8	- 13.3	NW 10.5	N 3.6	SW 5.3
12	NE 3.3	N 7.8	N 3.0	NE 7.0	N 5.8	NE 4.6	SW 8.8	SW 7.4	- 14.8	NW 7.9	S 4.5	S 5.4
13	NE 5.8	N 5.8	NE 7.0	NW 5.9	N 6.3	E 4.7	NW 7.2	NE 6.7	S 8.3	N 3.3	NW 5.8	SW 4.5
14	S 4.4	NW 7.0	S 3.1	NW 5.6	E 7.0	S 7.1	NW 3.2	SW 7.3	NW 5.0	SW 4.3	NW 6.5	S 3.2
15	NW 5.5	NW 4.9	NE 5.0	NE 4.7	S 6.1	S 6.8	S 4.8	N 7.9	NW 6.3	N 6.5	SW 5.6	S 5.9
16	SW 4.1	NW 5.3	NW 5.0	E 3.2	S 6.6	SW 8.3	W 4.0	N 6.1	S 7.0	SW 7.1	S 6.4	SW 4.6
17	SW 3.5	NW 4.3	M	SE 6.3	SW 5.2	NW 6.8	S 5.9	S 7.0	SW 4.4	SW 8.0	N 8.3	SW 4.1
18	NW 4.8	S 3.8	NW 10.3	NE 5.8	NE 5.8	NW 3.5	SW 9.8	NW 5.7	SW 7.0	S 7.5	SW 8.4	N 6.9
19	S 2.3	NE 4.9	NW 6.1	N 12.3	N 6.5	SW 9.4	N 4.5	NW 5.3	NW 10.0	NW 6.4	N 4.7	S 7.6
20	SW 3.4	N 4.3	SE 3.9	N 5.8	N 6.4	NW 8.1	W 6.0	SW 8.1	NW 4.7	SW 5.5	NW 5.6	NW 4.2
21	SW 7.5	SW 4.1	SW 3.7	S 3.0	SW 3.5	NW 4.6	NW 5.8	N 7.7	NW 3.6	N 5.2	SW 6.0	SW 4.3
22	SW 6.2	NW 4.7	NW 8.4	S 5.8	S 5.8	S 5.2	N 4.5	NW 5.9	SW 8.8	NW 6.0	SW 4.8	NW 5.0
23	SW 8.0	NW 4.8	NW 6.0	E 7.3	SW 5.7	NW 7.8	S 4.4	E 6.8	SW 7.1	N 9.0	E 2.5	N 3.3
24	SW 5.5	NE 5.3	SW 4.3	E 8.4	S 5.3	S 4.4	SW 8.1	S 4.0	NW 6.4	SW 7.0	SW 2.8	N 1.9
25	NE 16.0	N 0.0	SW 5.0	E 4.9	SW 0.5	N 3.5	W 7.5	SW 3.6	SW 7.4	NW 0.7	N 3.6	S 1.9
26	NE 10.0	NW 3.3	SW 3.0	SW 3.9	SW 3.0	N 3.6	NW 7.4	S 3.8	NW 13.5	SW 4.8	- 2.4	NW 3.0
27	NW 7.7	N 2.5	NW 5.7	W 3.2	W 4.3	SW 5.8	N 5.9	S 4.3	NW 4.5	NW 6.0	N 7.1	N 2.5
28	NW 6.0	NE 4.6	NW 8.5	NE 6.3	N 2.4	NW 6.1	S 7.9	NW 5.4	SW 5.2	S 3.1	S 4.8	NE 8.1
29	NW 3.0	SW 3.1	SW 8.5	NE 10.8	NE 9.2	SW 4.4	NE 6.2	NW 5.7	NE 7.2	S 9.3	NW 6.7	- 9.0
30	SW 3.1	NE 5.3	NE 5.0	NE 12.4	E 3.8	SW 0.3	SW 3.9	SW 3.8	NW 4.4	SW 6.0	SW 4.4	SW 3.5
31	NW 4.3	SE 8.3			NE 11.8		NW 4.4	SW 6.0		SW 5.3		SW 3.3
Mean	5.6	5.1	(5.6)	6.2	6.1	6.3	6.1	6.4	7.2	5.4	6.2	4.9

Note: 1. Values shown are mean hourly velocities in miles per hour for each day and month.

2. Daily directions shown are based on prevailing hourly direction as determined from the anemograph charts for each day.

3. : : brackets indicate a mean monthly value that is based on less than a full months record.

4. - indicates a missing prevailing wind direction.

5. M indicates that both velocity and direction are missing.

APPENDIX 5

SUMMARY OF EVAPORATION PAN DATA

The problem of measuring and calculating evaporation and transpiration from lakes, forests and entire drainage basins is a difficult one. Methods rely on empirical evaporation measurement and calculation methods. Three methods of determining evaporation are being used in hydrologic studies work at the Experimental Lakes Area (ELA):

- 1) solving for lake evaporation as the residual term in Rawson Lake water budgets
- 2) empirical mass transfer techniques
- 3) the evaporation pan

Of these three methods, the evaporation pan is probably the most commonly used in the world (Bruce and Clark, 1966). This section presents all evaporation pan data collected at ELA from 1969 to 1978.

Evaporation pans can be installed in three ways: floating on the lake, sunk in the ground, and installed on a low stand above ground. The first method more closely simulates surface temperature, wind, and radiation effects, but is not practical with respect to servicing. The second way is impractical because of the problem of soil temperature, undetected leaks, wind exposure, and overgrown vegetation. Most pans are installed the third way, on a low stand above ground in an exposed clearing.

The ELA Evaporation Pan

The evaporation pan used at ELA is the US Weather Bureau Class A pan which was adopted as an interim international standard for the International Geophysical Year (1957-58), recommended by the World Meteorological Organization, and the standard used in Canadian Atmospheric Environment Services sites.

The Class A pan is 4 feet (122 cm) in diameter, 10 inches (25 cm) in depth and made of non-corrosive metal. It is installed in an open site on a low stand that permits free air circulation under and around the pan. Each morning, the water level in the pan is adjusted to a standard height determined by a fixed point gauge. The depth of water added or removed is added or subtracted to the depth of precipitation that may have occurred, and a daily net water loss is calculated. A totalizing anemometer installed near the pan, and at the same height, gives the miles of wind passing directly over the pan each day. Mean water temperature and mean air temperature are calculated from maximum and minimum thermometers in the pan and in the nearby Stevenson Screen instrument shelter. This wind and temperature data can be used to correct the pan evaporation for advected energy as suggested by Kohler et al. (1955).

As the ELA pan is serviced at 08:00 cst daily, the dates in Tables 52 to 61 are for an "evaporation day", beginning after the morning observation and ending at the time of the morning observation of the next day. For example, readings made on July 15 are recorded as the evaporation day of July 14.

Pan Coefficients

In order to convert evaporation pan data to lake evaporation, a conversion factor known as a pan coefficient is required. The pan coefficient is equal to the ratio of lake evaporation to pan evaporation. Several different investigators have shown that the annual pan coefficient is less than unity, ranging from 0.6 to 0.8 (Hounam, 1973). Our investigations at ELA using Rawson Lake water budgets from 1972 to 1976 yield an average annual pan coefficient of 0.64 for data uncorrected for advected energy, and 0.70 for corrected data (Newbury, 1977).

The pan method is not recommended for weekly or monthly evaporation estimates. The reason for this is that the lake and the pan do not behave in exactly the same way. The pan is small in relation to the lake and its water temperature fluctuates closely with the air temperature. The heat storage capacity of lakes is important, and evaporation is not closely related to daily solar energy received. In the fall season, large amounts of lake evaporation occur when surface temperatures are much higher than the air temperatures. The opposite takes place during the late spring, when the lake evaporation is low due to low surface temperatures. Average monthly pan coefficients for Rawson Lake based on water budget evaporation varied from 0.32 in May to 1.15 in September for data not corrected for advection, and from 0.30 to 1.10 for corrected data (Newbury, 1977).

Table 52 Rawson Lake Watershed summary of evaporation pan data for 1969.

Date	MAY				JUNE				JULY			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1									.11	57	61	55
2									.21	46	M	60
3									.19	52	68	62
4									.02	71	54	52
5									.17	41	62	54
6									.21	50	M	59
7									.29	86	M	62
8									.05	69	60	59
9									.22	69	72	67
10									.22	52	73	67
11									.25	50	76	73
12									.28	90	80	80
13									.13	34	75	70
14									.13	37	75	72
15	Station installed June 27, 1969											
16									.17	42	74	70
17									.30	69	72	67
18									.25	46	72	68
19									.14	36	69	72
20									.15	52	69	67
21									.21	44	72	64
22									.27	85	72	62
23									.05	46	64	63
24									.17	50	69	66
25									.12	40	M	65
26									.13	54	66	60
27					.08	99	58	52	.08	62	66	65
28					.16	53	62	57	.16	70	74	69
29					.02	73	57	56	.22	54	74	64
30					.09	57	58	50	.20	31	76	65
31									.20	75	68	62
TOTAL					(.35)	(282)	(235)	(215)	5.43	1738	(1879)	2001
MEAN					(.09)	(70)	(59)	(54)	.18	56	(70)	64

Date	AUGUST				SEPTEMBER				OCTOBER			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1	.20	48	71	68	.06	36	67	63	0	20	42	43
2	.20	42	76	70	.06	43	64	67	0	35	46	46
3	.04	37	69	68	.16	63	70	70	.01	104	50	51
4	.10	34	69	66	.17	116	69	70	.03	34	48	52
5	.18	54	74	70	.04	45	66	62	.02	29	43	40
6	.07	44	62	65	.12	54	67	61	.01	59	43	42
7	0	78	60	58	.10	61	56	52	0	60	40	36
8	.17	51	67	62	.12	30	56	50	.02	40	41	40
9	.07	34	73	68	.03	27	53	52	.04	100	46	44
10	.23	44	78	73	.05	35	51	52	{-*}	86	36	31
11	.21	74	79	78	.11	71	57	56	{-*}	{-*}	38	33
12	.12	65	69	70	.20	41	64	59	{.09*}	{57}	39	37
13	.10	94	70	66	.21	69	67	68	.02*	37	37	33
14	.07	76	62	64	.21	59	67	64	.01*	39	37	36
15	.14	48	69	64	.01	28	60	53	-*	19	38	35
16	.15	37	73	68	.10	47	51	48	-*	47	39	33
17	.12	45	66	58	.06	22	48	45	-*	47	38	34
18	.16	62	65	60	.10	94	52	52	-*	38	40	35
19	.17	18	58	62	.18	191	38	61	-*	35	37	34
20	.21	41	70	64	.07	101	90	62				
21	.15	66	74	72	.11	106	96	66				
22	.22	81	77	78	.04	61	50	48				
23	.20	55	78	72	.07*	41	47	39				
24	.22	53	78	74	0	61	42	43				
25	.20	50	76	74	0	14	44	48				
26	.17	73	72	70	0	43	48	46				
27	.22	91	74	72	0	34	47	43				
28	.17	54	74	70	0	66	47	46				
29	.12	107	72	63	.08	74	45	43				
30	.10	67	61	60	.05	52	44	40				
31	.20	35	64	59								
TOTAL	4.69	1797	2190	2086	2.51	1785	1683	1629	(.25)	(886)	(778)	(735)
MEAN	.15	58	71	67	.08	50	56	54	(.02)	(47)	(41)	(39)

Notes: 1. { } multiple brackets indicate total for more than one day.
 2. () single brackets indicate monthly total or mean based on less than full months record.
 3. * ice on pan.
 4. M missing data.

Table 53 Rawson Lake Watershed summary of evaporation pan data for 1970.

Date	MAY				JUNE				JULY			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1					.14	58	62	54	.37	109	73	70
2					.22	46	66	57	.07	64	66	62
3					.29	76	70	64	.06	94	57	56
4					.32	61	72	68	.22	53	70	62
5					.28	60	74	72	.25	67	75	68
6					.39	80	72	70	.25	58	72	70
7					.31	67	72	72	.13	103	68	66
8	.19	126	50	45	.41	129	76	80	.22	43	72	68
9	{-*}	98	38	34	.17	58	74	71	.26	70	78	76
10	{.01*}	43	36	33	.23	99	69	66	.15	36	77	74
11	.10	62	44	38	.06	92	60	58	.21	41	80	79
12	{-*}	39	38	34	.32	107	68	66	.08	57	72	71
13	.16	50	48	44	.26	62	68	65	.18	39	79	74
14	{-*}	59	44	42	.23	56	72	68	.17	96	72	68
15	{.25}	64	38	36	.04	38	68	65	.27	72	72	70
16	.14	67	51	47	.17	60	66	63	.38	100	75	72
17	.23	108	61	8	.23	109	67	60	.28	67	70	64
18	.35	104	56	51	.19	93	60	54	0	48	54	54
19	.16	40	54	47	.21	43	62	57	.23	71	66	61
20	.06	65	51	50	.24	59	70	64	.21	42	70	62
21	.04	26	52	48	.29	59	70	63	.30	94	73	70
22	.20	38	62	57	.31	101	72	72	.31	148	72	72
23	.21	46	66	62	.23	144	66	63	.32	151	70	73
24	.15	72	60	54	.24	69	65	57	.17	111	67	67
25	{-*}	120	43	40	0	48	54	53	.22	93	76	76
26	{.23}	52	40	36	.05	24	61	55	.26	52	75	70
27	.07	42	48	44	.16	75	64	62	.25	46	74	70
28	.12	105	54	56	.16	85	70	72	.30	58	75	79
29	.05	28	59	54	.24	63	78	74	.13	35	74	74
30	.08	31	60	58	.16	75	74	70	.25	55	78	74
31	.01	45	56	53					.21	81	68	62
TOTAL	(2.81)	(1530)	(1209)	(1063)	6.55	2196	2042	1935	6.71	2254	2220	2134
MEAN	(.12)	(64)	(50)	(46)	.22	73	68	64	.22	73	72	69

Date	AUGUST				SEPTEMBER				OCTOBER			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1	.29	82	71	66	.12	66	63	65	.11	80	55	51
2	.23	116	60	57	.01	52	66	66	.06*	133	39	38
3	.15	43	64	60	.09	38	66	64	.11*	77	42	41
4	.20	49	68	64	.15	45	67	62	.10	54	46	46
5	.23	46	71	72	.20	112	69	70	.04	64	52	56
6	.11	37	72	72	.13	44	69	64	.05	78	50	48
7	.18	37	77	73	.13	101	62	58	.06	69	38	36
8	.24	52	78	73	0	72	52	55				32
9	.23	66	77	74	.02	85	50	49				
10	.24	28	75	70	.07	52	50	47				
11	.27	40	76	78	.09	75	46	45				
12	.29	53	76	78	{-*}	26	45	39				
13	.26	52	79	81	{.08}	22	42	38				
14	.08	46	72	71	.06	16	45	44				
15	.14	79	66	63	.13	22	43	40				
16	.11	46	57	53	.11	72	53	53				
17	.25	133	66	68	.11	88	62	56				
18	.02	51	61	62	.11	51	62	59				
19	.19	74	65	60	.12	85	66	68				
20	.19	59	60	56	.08	47	70	68				
21	.04	96	56	50	.07	117	54	52				
22	.12	84	52	50	.02	20	41	38				
23	.17	52	58	64	.07	49	49	51				
24	.21	41	69	66	.08	31	56	53				
25	.23	64	68	64	.04	33	49	45				
26	.18	70	66	64	0	47	45	42				
27	.14	60	52	58	.07	37	45	40				
28	.13	42	62	60	.10	90	48	49				
29	.10	76	62	60	.11	46	56	53				
30	.15	57	60	52	.11	91	57	56				
31	.16	37	62	50								
TOTAL	5.53	1868	2038	2015	2.48	1732	1648	(1525)	(.53)	(535)	(322)	(348)
MEAN	.17	60	57	55	.08	58	55	(52)	(.07)	(79)	(46)	(44)

Notes: 1. { } multiple brackets indicate total for more than one day.

2. () single brackets indicate monthly total or mean based on less than full months record.

3. * ice on pan.

4. M missing data.

Table 54 Rawson Lake Watershed summary of evaporation pan data for 1971.

Date	MAY				JUNE				JULY			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
	.22	44	M	58	.24	42	70	62				
1	.27	76	67	67	.22	92	72	70				
2	.30	60	73	71	.12	94	70	68				
3	.28	78	72	72	.28	97	70	66				
4	.11	75	63	60	.31	99	67	62				
5	.22	115	57	60	.37	98	68	62				
6	.15	64	56	48	.13	97	64	64				
7	.23	54	62	58	.32	96	64	60				
8	.29	108	63	62	.26	76	67	62				
9	.04	76	59	61	.14	39	66	62				
10	.12	31	70	67	.25	98	68	68				
11	.15	42	73	68	.13	80	68	64				
12	.12	57	66	63	.20	75	66	64				
13	.20	43	73	66	.25	73	70	67				
14	.15	M	M	50	.23	49	72	64				
15	.23	59	M	56	.07	33	70	62				
16	.09	101	M	44	.12	48	70	66				
17	.16	53	M	44	.27	59	72	66				
18	.08	138	M	44	.05	49	63	60				
19	.13	62	M	44	.27	59	68	61				
20	.15	54	M	54	.25	68	71	64				
21	.08	28	M	51	.23	66	70	64				
22	0	103	M	44	.27	66	62	57				
23	.01	154	M	38	.11	34	57	56				
24	.20	88	M	46	.10	33	65	64				
25	.18	43	M	52	.14	86	67	65				
26	.27	62	M	58	.09	60	67	65				
27	.32	139	M	64	.28	56	73	65				
28	.20	95	M	49	.21	46	70	64				
29	.22	65	M	50	.24	82	62	62				
30	.26	55	M	52								
TOTAL	(2.75)	(1299)	M	(840)	5.63	1817	(1937)	1894	5.57	2279	2018	1905
MEAN	(.16)	(81)	M	(49)	.19	60	(67)	63	.18	74	65	61
AUGUST				SEPTEMBER				OCTOBER				
Date	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1	.04	61	54	50	.03	75	65	68	.03	57	58	56
2	.18	48	61	56	.17	46	74	74	0	64	54	54
3	.14	25	66	60	.08	59	70	70	.02	65	51	50
4	.22	43	70	62	.09	93	68	65	.03	27	48	47
5	.21	47	72	66	.14	54	67	66	.02	31	46	44
6	.22	41	74	68	.01	55	66	64	.01	27	45	43
7	.23	72	76	72	.19	84	68	66	{ } 41	45	44	
8	.22	82	76	76	.14	40	64	60	{ } 15 78	46	46	
9	.28	73	74	72	.13	46	64	62	{ } 20	44	42	
10	.18	72	64	59	.12	65	60	58	{ } 90	47	46	
11	.18	60	66	64	.13	74	62	61	{ } 35	42	36	
12	.25	72	66	61	.12	55	60	59	{ } .02 19	44	41	
13	.09	43	60	59	.11	70	60	59	.02 78	43	46	
14	.17	63	66	62	.10	59	55	50	.04 56	44	44	
15	.17	130	67	70	.03	37	52	47	.03 49	42	38	
16	0	51	68	68	.05	39	50	50	.07 68	38	38	
17	0	42	70	68	.05	37	48	42	.09 33	42	30	
18	.18	46	69	64	.05	38	48	46	.10 175	46	54	
19	.04	14	62	58	.11	57	50	50	.04 54	48	40	
20	.13	41	66	65	.08	46	50	48	.04 57	45	46	
21	.19	64	71	68	.06*	50	46	40	.06 39	48	51	
22	.25	72	62	58	.06	31	43	44	.14 41	48	48	
23	.25	99	62	64	.09	42	48	45	.02 49	48	48	
24	.06	49	61	58	.10	53	51	54	.02 98	46	50	
25	.07	36	59	55	.17	84	52	56	.01 45	50	48	
26	.10	35	65	60	.04	114	52	53	.04 53	52	52	
27	.22	49	68	66	.05	41	58	55	- 129	42	38	
28	.19	55	72	74	.01	41	48	47				
29	.14	34	64	62	.05	42	32	31				
30	.18	45	65	61	.13	66	52	54				
31	.15	92	63	54								
TOTAL	4.93	1776	2050	1964	2.69	1683	1693	1653	(1.00) (1578)	(1245)	(1237)	
MEAN	.16	57	66	63	.09	56	50	55	(.04) (58)	(-6)	(45)	

Notes: 1. { ; multiple brackets indicate total for more than one day.

2. () single brackets indicate monthly total or mean based on less than full months record.

3. * ice on pan.

4. M missing data.

Table 55 Rawson Lake Watershed summary of evaporation pan data for 1972.

Date	MAY				JUNE				JULY			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
	1		.20	44	70	68	.19	75	72	52		
2		.33	75	71	69	.15	46	58	50			
3		.32	70	65	62	.20	47	63	56			
4		.24	75	70	67	.28	49	70	62			
5		.29	67	69	64	.26	49	70	67			
6		.30	69	74	72	.11	43	66	64			
7		.25	69	76	74	.12	38	66	64			
8		.41	123	66	64	.19	86	72	68			
9		.27	66	60	52	.23	58	70	64			
10	.22	59	60	59	.18	77	64	58	.48	76	71	70
11	.21	74	62	62	.04	44	56	55	.27	71	74	68
12	.10	55	58	58	.03	26	58	57	.16	52	68	62
13	.02	57	52	49	.03	61	62	60	.10	68	67	64
14	.08	27	54	50	.15	98	57	50	.13	66	64	60
15	.26	69	64	64	.14	55	48	45	.18	46	69	61
16	.28	73	71	72	.20	48	65	55	.25	60	69	66
17	.27	85	68	68	.28	138	68	64	.21	58	70	63
18	.27	75	72	77	.17	81	65	64	.16	45	68	63
19	.19	93	71	68	.14	103	52	50	.06	55	63	60
20	.07	33	61	56	.18	62	59	51	.21	50	69	63
21	.30	58	70	69	.26	44	70	64	.23	48	72	67
22	.16	79	68	70	.30	44	72	65	.03	46	64	62
23	.20	46	75	69	.33	65	69	66	.26	108	67	63
24	.35	65	74	72	.26	68	70	68	.16	76	60	54
25	.28	54	74	70	.30	45	74	70	.10	29	66	60
26	.26	57	75	72	.33	95	74	74	.12	23	68	62
27	.15	50	74	70	.22	53	73	68	.18	31	71	67
28	.09	98	57	54	.07	27	68	67	.23	47	75	69
29	.17	82	68	50	.35	80	74	70	.31	64	77	70
30	.22	43	60	52	.38	115	68	66	.30	71	72	68
31	.23	77	67	64					.25	62	65	57
TOTAL	(4.38)	(1409)	(1455)	(1395)	6.95	2087	1987	1879	6.11	1743	2116	1946
MEAN	(.20)	(64)	(66)	(63)	.23	70	66	62	.20	56	68	62

Date	AUGUST				SEPTEMBER				OCTOBER			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
	1	.10	41	63	59	.16	40	56	50	.03E	M	M
2	.07	30	56	51	.16	41	60	56	.02E	M	47	52
3	.19	54	62	59	.15	91	62	58	.01	24	50	48
4	.20	93	68	62	.14	46	56	49	.09	83	56	54
5	.21	60	64	58	.17	67	58	58	.03E*	25	43	38
6	.18	55	60	56	.03	59	48	48	.04E	{ } M	40	
7	.05	64	56	53	.08	31	52	49	.04E*	{ } M	50	
8	.13	36	58	53	.10	40	56	53	.04E*	{ } M	32	
9	.11	70	64	60	.17	147	61	62	.06E	132	38	40
10	.08	63	60	63	.04	59	58	59	.05	93	50	
11	.22	61	73	70	.13	32	60	56	.03E*	43	42	34
12	.16	47	77	74	.07	29	61	58	.05E	52	41	36
13	.13	62	66	62	.12	51	56	51	.03E*	96	44	41
14	.18	65	63	60	.13	117	58	56	.04E	54	38	32
15	.02	45	66	66	.09	62	52	42	.02	76	40	40
16	.14	39	78	72	.06	87	50	50	-*			
17	.13	25	76	72	.05	17	50	46				
18	.21	30	78	72	.10	26	58	55				
19	.15	33	78	76	.07	150	58	64				
20	.36	61	72	71	.16	102	54	50				
21	.18	96	60	58	{ }	69	40	35				
22	.12	32	64	58	{ .20 }	109	46	51				
23	.18	34	M	65	0	64	50	49				
24	.17	29	M	66	.07*	58	44	42				
25	.26	32	M	68	.02	51	40	36				
26	.13	25	M	70	.01	15	40	37				
27	.29	33	M	68	0	79	41	42				
28	.17	45	M	66	.02	51	42	40				
29	.22	133	M	76	.02E*	37	41	36				
30	.21	92	68	72	.02E	M	40	43				
31	.22	116	59	56								
TOTAL	5.17	1741	(1589)	1992	2.54	(1827)	1548	1481	(.60)	(907)	(489)	(637)
MEAN	.17	56	(66)	64	.08	(63)	52	49	(.04)	(70)	(44)	(42)

Notes: 1. { } multiple brackets indicate total for more than one day.
 2. () single brackets indicate monthly total or mean based on less than full months record.
 3. * ice on pan.
 4. M missing data.
 5. E estimated value.

Table 56 Rawson Lake Watershed summary of evaporation pan data for 1973.

	MAY				JUNE				JULY			
Date	Net Water Loss (in.)	Average Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Average Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Average Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1					.27	99	60	58	.31	74	76	73
2					.31	107	68	68	.38	123	70	67
3					.05	102	57	56	.13	98	63	62
4	.12	M	54	50	.21	121	62	60	.15	61	64	63
5	.04	M	44	45	.09	53	57	53	.17	73	70	68
6	.03	M	45	41	.22	69	58	50	.71Q	72	72	71
7	.17	M	56	50	.16	73	62	56	.29	78	71	68
8	.15	M	56	50	.13	78	60	57	.26	57	74	70
9	.13	49	58	55	.05	34	60	61	.33	78	72	68
10	.02	30	46	42	.07	32	60	54	.19	40	70	66
11	.10	91	45	41	.29	87	65	60	.16	68	71	70
12	.22	104	52	44	.17	64	60	54	.36	113	71	70
13	.18	84	50	40	.24	48	67	65	.19	85	64	60
14	.18	63	54	51	.12	64	69	70	.22	58	66	60
15	.13*	109	52	46	.20	73	70	66	.21	43	68	64
16	.21	89	50	41	.01	58	56	53	.28	94	70	68
17	.12	64	52	52	.03	39	58	58	.20	59	70	65
18	.22	48	64	58	.11	61	61	60	.17	69	68	63
19	.20	62	62	54	.02	71	58	56	.16	50	67	60
20	.18	52	62	56	.11	61	63	56	.67Q	30	72	66
21	.30	88	62	60	.09	41	60	55	.21	29	74	70
22	.05	26	54	54	.10	25	66	60	.29	60	73	70
23	.13	59	59	55	.20	42	71	68	.05	48	63	66
24	.11	98	55	50	.22	78	74	72	0	20	64	63
25	.03	75	50	51	.16	54	74	70	.05	66	68	66
26	.15	58	60	60	.15	79	64	60	.15	140	58	58
27	.33	106	65	65	.09	75	56	53	.06	50	53	50
28	.30	75	61	56	.03	64	52	51	.18	32	67	63
29	.24	41	65	61	.21	59	66	61	.08	50	66	60
30	.19	79	62	58	.28	58	72	66	.25	44	60	56
31	.18	41	62	55					.21	31	68	61
TOTAL	(4.41)	(1591)	(1537)	(1441)	4.39	1969	1886	1787	7.07	1993	2103	2005
MEAN	(.16)	(69)	(56)	(51)	.15	66	63	60	.23	64	68	65

	AUGUST				SEPTEMBER				OCTOBER			
Date	Net Water Loss (in.)	Wind Mileage (miles)	Average WATER Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average WATER Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average WATER Temp. (°F)	Average Air Temp. (°F)
1	.18	25	74	63	.20	70	66	66	.10	56	61	59
2	.18	30	74	67	.08	81	61	57	.10	63	62	60
3	.21	52	76	71	.07	50	61	62	.08	69	48	47
4	.20	28	72	66	.06	69	60	57	.10	34	50	48
5	.13	70	73	69	.07	97	34	34	.09	22	52	50
6	.10	33	74	70	.14	59	56	52	.09	89	55	56
7	.11	32	74	69	.12	21	60	55	0	75	54	54
8	.11	49	68	64	.13	40	63	60	.03	72	56	58
9	.04	63	64	60	.15	87	66	65	.03	58	60	58
10	0	46	60	57	.20	106	39	36	{ } { .01 }	M { 191 }	46	46
11	.21	31	72	67	.15	70	55	52	{ } { .01 }	46	46	46
12	.14	52	68	64	.10	32	57	53	.11	73	44	42
13	.18	41	70	62	.02	46	57	54	.02	46	40	41
14	.17	43	72	68	.06	68	48	46	.05	49	45	44
15	.18	46	72	66	0*	37	46	38	M*	150	40	40
16	.21	37	76	70	0	28	47	46	M*	59	42	36
17	.22	33	76	74	.20	41	52	50				
18	.25	73	78	74	.12	75	52	46				
19	.22	79	66	62	.08	46	47	38				
20	.17	38	67	60	.07	19	47	42				
21	.13	36	66	52	.15	100	42	42				
22	.17	39	69	54	.03	2	42	42				
23	.17	29	69	63	.02	81	50	50				
24	.12	95	68	66	.06	129	53	52				
25	.11	42	71	68	.05	32	54	52				
26	.07	32	73	70	0	10	49	46				
27	.20	74	79	78	.07	42	55	50				
28	.21	61	76	74	.20	60	57	56				
29	.24	52	72	59	.10	53	56	54				
30	.18	77	70	72	.08	65	58	60				
31	.25	90	72	70								
TOTAL	5.06	1528	2211	2079	2.78	1736	1630	1533	(.81)	(1106)	(755)	(783)
MEAN	.16	49	71	67	.09	58	54	52	(.06)	(69)	(50)	(49)

Notes: 1. { } multiple brackets indicate total, for more than one day.

2. () single brackets indicate monthly total or mean based on less than full months record.

3. * ice on pan.

4. Missing data.

Journal of Health Politics, Policy and Law, Vol. 27, No. 2, March 2002
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Table 57 Rawson Lake Watershed summary of evaporation pan data for 1974.

Date	MAY				JUNE				JULY			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
	1	.23	58	62	.56	.22	50	72	.68	.20	78	72
2	.16*	123	44	33	.19	89	64	62	.20	.20	78	70
3	.01	10	43	31	.30	91	70	68	.03	.52	60	60
4	.04	56	41	35	.25	66	72	67	.18	.37	72	68
5	.11	67	48	33	.19	38	62	62	.28	.59	76	73
6	.16	45	50	38	0	13	59	54	.26	.49	78	78
7	.16	40	47	42	.25	38	66	60	.21	.57	80	78
8	.08	32	47	44	.23	96	65	58	.16	.64	73	72
9	.18	58	53	48	.20	108	54	50	.26	.90	75	72
10	.05	101	46	42	.25	93	58	52	.31	.82	70	69
11	.03	171	36	34	.32	122	56	56	.38	116	72	74
12	.20	54	46	40	.25	75	60	56	.28	.45	81	76
13	0	34	50	44	.22	61	66	60	.31	.66	72	74
14	.04	29	42	42	.22	105	58	54	.25	.78	68	64
15	.14	50	52	44	.06	121	48	41	.21	.38	72	70
16	.02	74	50	44	.14	100	54	53	.55	.50	76	74
17	.20	35	50	42	.24	63	62	58	.25	.55	78	76
18	.20	67	51	46	.25	63	66	64	.35	.73	76	74
19	0	78	52	52	.25	97	70	68	.42	.60	74	70
20	.12	61	58	59	.27	14	69	66	.32	.85	74	74
21	.25	64	66	58	.27	80	65	60	.29	.67	72	74
22	.13	59	60	52	.27	58	64	56	.35	.55	73	72
23	.02	80	48	46	.26	36	68	62	.31	.61	76	74
24	.17	64	50	48	.25	40	73	66	.15	{ } 70	70	70
25	.27	46	60	52	.28	53	74	68	.22	{ } 151	74	72
26	.27	51	60	57	.37	107	74	72	.31	.110	66	65
27	.09	61	58	58	.25	94	73	72	.35	.147	66	66
28	.25	83	66	60	.33	86	76	71	.06	.96	59	58
29	.21	67	60	55	.29	96	64	62	.09	.104	60	60
30	.14	38	54	52	.27	87	66	64	.14	.71	64	62
31	.12	53	56	50					.19	.55	68	63
TOTAL	(3.82)	(1851)	(1544)	(1381)	7.15	2250	1938	1818	7.89	2201	2219	2170
MEAN	(.13)	(62)	(51)	(46)	.24	75	65	61	.25	71	72	70

Date	AUGUST				SEPTEMBER				OCTOBER			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
	1	.09	65	61	58	.05	28	50	43	{ } -*	33	37
2	.15	78	57	54	.09	36	48	46	{ } .06	47	39	37
3	.24	67	64	64	.11	40	56	52	.08	.55	48	48
4	.23	49	72	70	.15	62	60	59	.08	141	42	41
5	.21	34	72	69	.21	91	61	62	{ } -*	29	M	33
6	.28	53	74	82	.07	70	60	58	{ } .01	27	M	29
7	.28	54	73	70	.06	66	54	52	{ } .01	73	38	34
8	.24	57	72	72	.11	35	54	48	0	46	40	39
9	.28	108	72	68	.11	34	55	51	.06	.52	49	48
10	0	51	56	64	0	29	47	46	.10	49	54	56
11	.07	86	64	62	.04	87	48	45	{ } -*	69	M	40
12	.16	66	66	62	.06	39	47	44	{ } .13	70	45	40
13	.20	35	65	63	.05	48	48	45	.04	108	42	44
14	.20	91	64	61	.02	82	48	48	M*	61	M	34
15	.23	104	68	62	.10	39	52	48	M*	28	38	34
16	.17	55	70	62	0	38	51	50				
17	.13	39	64	60	.02	39	56	50				
18	.10	34	65	50	.14	46	52	50				
19	.07	53	67	69	.10	42	50	42				
20	.06	98	58	57	{ } -*	{ } 100	M	40				
21	.01	40	55	52	{ } .12	{ } 100	38	33				
22	.02	42	55	50	.05	35	43	40				
23	.02	23	54	52	.06	67	50	51				
24	.05	81	56	58	{ } -*	62	46	44				
25	.12	83	64	64	{ } .16	54	44	44				
26	.16	86	58	56	.17	85	54	56				
27	.09	49	58	52	{ } -*	52	42	37				
28	.01	66	53	51	{ } .11	22	46	42				
29	.05	66	55	50	{ } -*	88	38	35				
30	.04	89	51	50	{ } .02	* 47	38	30				
31	.09	55	52	46								
TOTAL	4.05	1957	1946	1870	2.12	1563	(1438)	1391	(.56)	(988)	(472)	(586)
MEAN	.13	63	63	60	.07	52	(50)	40	(.04)	(66)	(43)	(39)

Notes: 1. { } multiple brackets indicate total for more than one day.

2. () single brackets indicate monthly total or mean based on less than full months record.

3. * ice on pan.

4. M missing data.

Table 58 Rawson Lake Watershed summary of evaporation pan data for 1975.

Date	MAY				JUNE				JULY			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1	.14	56	57	52	.16	26	76	72				
2	.17	61	59	54	.29	36	78	72				
3	.17	53	58	51	.31	44	77	72				
4	0	58	56	56	.28	38	80	74				
5	0	56	54	49	.19	34	78	74				
6	.12	47	54	50	.24	50	78	72				
7	.19	44	61	53	.24	104	72	69				
8	.23	{ } { }	60	57	.21	35	60	58	.18	81	58	56
9	.25	{ } { }	64	60	.09	55	61	58	.24	103	62	57
10	.32	{ } { }	60	56	.08	59	60	59	.22	96	60	56
11	.20	52	54	44	.14	51	63	59	.20	67	64	57
12	.22	64	58	55	.20	69	66	64	.20	67	68	64
13	.23	91	64	56	.14	42	60	56	.07	38	68	69
14	.09	81	46	38	.15	49	60	52	.31	49	79	78
15	.16	37	55	50	.15	49	61	57	.27	80	81	80
16	.31	131	63	62	.22	51	68	61	.29	90	84	83
17	.16	57	63	56	.22	39	67	62	{ } { }	100	83	82
18	.22	80	64	60	.21	37	69	66	{ } { }	57	76	73
19	.28	60	68	68	.25	94	68	65	.20	86	72	64
20	.23	66	70	66	.16	85	70	68	.10	39	66	60
21	.10	49	59	53	.07	41	74	68	.23	69	73	70
22	.28	56	62	55	.11	97	67	64	.20	43	72	70
23	.11	95	65	65	.23	47	72	67	.10	69	66	64
24	.28	95	70	66	.28	58	76	72	.18	73	68	66
25	.18	57	70	66	.34	103	78	75	.26	98	73	70
26	.24	55	62	52	.13	84	75	67	.31	100	70	69
27	.15	44	60	54	.33	55	76	72	.29	65	72	70
28	.22	48	67	58	.20	90	74	74	.30	99	76	78
29	.23	73	58	54	.28	56	74	69	.30	59	82	83
30	.11	63	56	50	.14	41	75	70	.41	122	82	86
31	.10	37	57	50					.29	105	80	80
TOTAL	(4.90)	(1534)	(1475)	(1351)	5.12	1764	1979	1850	7.39	2207	2274	2190
MEAN	(.20)	(67)	(61)	(56)	* .17	59	66	62	.24	71	73	71
Date	AUGUST				SEPTEMBER				OCTOBER			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1	.06	45	70	65	.12	67	57	52	.06	43	43	38
2	.15	54	65	60	.15	118	54	56	.08	72	50	53
3	.14	74	66	65	.10	52	54	52	.11	39	53	49
4	.16	56	63	58	.14	45	60	58	.17	122	54	57
5	.20	41	66	60	.08	33	58	53	.04	92	46	44
6	.30	130	68	67	.05	56	51	50	.14	106	48	47
7	.21	111	71	72	.03	39	50	46	.12	85	56	58
8	.12	87	68	62	.10	30	34	48	.14	139	56	60
9	.24	81	68	66	.06	62	54	54	.06	44	48	45
10	.15	47	66	65	.10	32	50	48	.03	27	44	44
11	.11	30	70	66	.05*	62	43	38	.02	31	46	45
12	.20	95	68	67	.07*	45	42	36	.08	32	54	50
13	.21	75	68	64	.03	41	45	43	.07	83	46	44
14	.04	15	58	55	.14	82	57	61	.05	51	40	38
15	.19	59	66	60	.12	34	32	48	{ } *	33	40	33
16	.24	100	60	55	.08	70	54	52	{ } *	10	38	36
17	.13	57	53	53	.09	98	58	56	{ } 0.05	61	44	43
18	.15	44	60	57	.01	59	52	51	.10	122	48	52
19	.10	37	62	58	.01	76	68	66	.08	37	50	48
20	.16	54	60	61	.03	100	44	40	.09	47	48	48
21	.03	31	57	55	.04	62	43	43	.08	50	45	42
22	.24	102	64	62	.03	43	49	48	.03	24	41	42
23	.02	60	66	65	.03	29	48	44	0	39	39	38
24	.18	121	69	68	.09	38	52	50	M *	163	M	31
25	.07	78	60	58	.12	59	54	54	M *	29	M	28
26	.07	36	58	52	.15	42	56	54	M *	10	M	33
27	.05	29	56	54	.11	34	58	58	M *	33	M	36
28	.16	76	64	66	.06	35	60	58				29
29	.17	72	64	62	.06	39	54	52				32
30	.10	73	52	60	.02*	91	42	37				40
31	.04	61	66	60								40
TOTAL	4.43	2642	1986	1902	2.29	1733	1538	1488	(1.00)	(1694)	(1077)	1323
MEAN	.14	66	64	61	.06	58	52	50	(.07)	(63)	(47)	43

Notes: 1. { } multiple brackets indicate total for more than one day.

2. () single brackets indicate monthly total or mean based on less than full months record.

3. * ice on pan.

4. M missing data.

Table 59 Rawson Lake Watershed summary of evaporation pan data for 1976.

Date	MAY					JUNE					JULY				
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	
1	{ }*	106	M	34	.29	63	74	68	.36	35	72	68			
2	{ }*	112	M	29	.30	59	75	70	.30	37	72	68			
3	{ .11 }	68	44	36	.31	70	74	70	.32	39	78	72			
4	{ }*	159	M	46	.33	123	70	72	.24	38	77	71			
5	{ }*	95	M	33	.33	95	59	76	.29	64	76	76			
6	{ .44 }	47	46	32	.32	92	76	74	.20	44	72	70			
7	.14	57	50	43	.11	33	73	68	.26	37	75	71			
8	.17	84	58	34	.23	47	75	71	.26	83	M	74			
9	.41	134	60	62	.24	73	74	72	.27	47	77	74			
10	.15	90	49	42	.31	85	73	68	.40	113	70	63			
11	.23	55	34	30	.29	115	70	66	.11	51	63	58			
12	.27	86	58	58	.17	122	66	64	.24	85	68	64			
13	.01	60	46	41	0	94	58	56	.09	55	68	66			
14	.08	71	54	54	.07	88	56	51	.33	79	72	69			
15	.05	42	52	48	.06	94	48	46	.08	83	59	54			
16	.23	118	54	49	.17	79	60	56	.28	99	64	64			
17	.20	57	57	52	0	72	56	52	.20	55	68	66			
18	.32	89	60	59	.09	{ - }	56	61	.28	80	76	76			
19	.23	85	60	58	.24	{ - }	66	61	.22	67	71	70			
20	.25	99	58	52	.29	{ 216 }	72	72	.33	76	69	68			
21	.24	56	58	52	.13	38	65	64	.26	52	72	68			
22	.26	68	60	53	.29	52	72	70	.25	94	72	74			
23	.26	55	59	54	.33	90	73	72	.32	83	71	68			
24	.26	45	62	58	.24	92	70	66	.24	51	74	70			
25	.28	67	66	61	.05	28	66	55	.18	97	70	70			
26	.28	88	66	63	.17	49	68	62	.33	78	72	69			
27	.20	71	64	58	.20	51	68	60	.26	52	74	72			
28	.26	52	68	63	.10	45	64	61	.23	55	70	65			
29	.26	43	70	69	.22	49	67	62	.05	51	62	62			
30	.24	42	72	68	.28	37	72	66	.13	58	63	58			
31	.31	64	73	69					.27	54	67	66			
TOTAL	6.14	2363	(1578)	1600	6.16	2151	2016	1932	7.58	1992	(2114)	2104			
MEAN	.20	76	(58)	52	.21	72	67	64	.24	64	(70)	68			

Date	AUGUST					SEPTEMBER					OCTOBER				
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	
1	.30	68	68	66	.15	27	54	50	.13	25	57	55			
2	.29	56	71	68	.14	120	58	56	.17	50	58	60			
3	.31	73	72	76	.04	113	54	53	.20	124	56	58			
4	.17	85	62	62	.13	45	60	57	.15	66	46	39			
5	.23	47	64	60	.18	106	60	62	{ -* }	45	M	32			
6	.22	48	70	66	.22	64	70	76	{ -* }	25	M	31			
7	.26	59	73	70	.32	102	70	72	{ -* }	65	M	34			
8	.20	80	70	70	.12	50	56	53	{ .04 }	16	38	34			
9	.23	86	68	68	.20	44	57	56	{ - }	2	37	39			
10	.22	34	72	69	.15	47	62	62	{ .06 }	41	47	46			
11	.17	55	72	68	.16	27	68	70	.06	35	49	50			
12	.09	47	62	60	.18	88	65	64	.11	68	48	46			
13	.07	36	58	56	.06	58	50	44	.06	54	43	42			
14	.30	35	64	54	.07	13	54	48							
15	.12	35	68	60	.10	36	58	54							
16	.25	70	68	67	.13	30	63	60							
17	.28	99	72	72	.14	49	64	66							
18	.19	43	79	78	.21	107	64	62							
19	.14	73	78	74	.13	37	55	50							
20	.34	83	77	74	.12	70	49	46							
21	.33	53	70	70	.08	38	47	42							
22	.20	43	70	67	.06	59	45	37							
23	.23	96	70	70	.03	30	40	39							
24	.24	89	74	78	.08	32	45	35							
25	.25	41	78	75	.03	33	42	40							
26	.15	61	76	70	.05	33	42	38							
27	.19	{ 161 }	57	54	.09	33	48	42							
28	.09	{ 161 }	52	46	.13	55	52	54							
29	.13	39	57	56	.10	18	57	54							
30	.11	57	64	63	.16	60	60	62							
31	.18	65	54	47											
TOTAL	6.48	1929	2110	2034	3.76	1624	1669	1604	(.98)	(616)	(479)	(606)			
MEAN	.21	62	68	65	.13	54	56	53	(.08)	(47)	(48)	(43)			

Notes: 1. { } multiple brackets indicate total for more than one day.

2. () single brackets indicate monthly total or mean based on less than full months record.

3. * ice on pan.

4. M missing data.

Table 60 Rawson Lake Watershed summary of evaporation pan data for 1977.

Date	MAY					JUNE					JULY				
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	
	1	M	M	M	.20	65	62	54	.20	69	64	56			
2	.19	33	56	52	.23	33	67	61	.25	89	71	62			
3	.24	73	57	60	.25	79	68	66	.34	63	75	72			
4	.20	88	60	62	.29	55	70	66	.29	54	74	71			
5	.07	44	44	40	.01	38	60	50	-.02	42	67	65			
6	.10	34	46	35	.21	43	66	60	.18	37	75	70			
7	.22	59	54	51	.19	{ }	66	60	.23	69	70	69			
8	.24	47	59	52	.16	{108}	60	50	.14	52	61	58			
9	.21	52	58	58	.20	106	62	61	.21	43	68	58			
10	.04	54	54	52	.04	55	59	56	.30	130	71	66			
11	.23	46	66	68	.13	50	59	53	.13	63	68	64			
12	.24	47	72	70	.19	65	65	56	.10	62	66	62			
13	.25	35	74	74	.03	41	54	50	.13	82	66	62			
14	.21	33	73	72	.04	44	58	54	.20	63	70	68			
15	.23	77	74	70	.08	26	60	59	.25	{ }	72	64			
16	.27	71	70	63	.06	30	66	62	-.29	{144}	75	70			
17	.09	25	66	64	.11	43	65	60	.25	95	75	68			
18	.24	55	74	70	.08	64	61	57	.25	64	83	80			
19	.22	43	74	70	-.01	35	58	55	.14	57	73	77			
20	.10	32	60	58	.26	36	70	63	.31	69	71	65			
21	.21	47	68	66	.29	41	74	66	.24	36	74	66			
22	.03	34	60	61	.33	87	72	66	.26	75	74	67			
23	.06	27	54	56	.09	39	68	66	.23	43	76	74			
24	.26	63	69	68	.29	59	70	66	.27	73	67	67			
25	.36	96	76	74	.30	64	74	70	.27	64	67	64			
26	.32	88	76	72	.33	67	74	68	.23	35	70	65			
27	.26	63	76	70	.26	58	74	66	.25	48	69	65			
28	.07	45	75	70	.15	{ }	M	M	.14	60	70	66			
29	.07	34	68	62	.04	{106}	66	63	.19	58	65	60			
30	.23	48	73	64	.07	86	60	56	.02	81	60	60			
31	-.01	46	56	52					.18	90	64	61			
TOTAL	(5.45)	(1563)	(1942)	(1856)	4.90	1643	(1888)	(1740)	6.45	2012	2171	2042			
MEAN	(.18)	(52)	(65)	(62)	.16	59	(65)	(60)	.21	65	70	66			
AUGUST															
Date	AUGUST					SEPTEMBER					OCTOBER				
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Alt Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)		Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	
	1	.19	27	64	57	.03	27	57	52	.10	30	50	44		
2	.17	53	66	60	.12	40	58	52	.09	19	51	48			
3	.18	34	66	58	-.08	38	53	54	.10	32	53	51			
4	.08	45	64	60	.02	32	52	48	-.01	36	44	42			
5	.12	41	62	56	.08	30	50	44	0	88	40	36			
6	.17	63	67	64	{ }	{ }	M	43	{ * }	11	38	33			
7	.13	31	64	58	{ .15 }	{ 83 }	60	59	{ .05 }	50	38	26			
8	.19	43	68	65	.03	56	58	55	.02	25	40	36			
9	.24	88	69	61	.03	99	50	48	.03	38	41	40			
10	.14	105	56	53	.08	25	58	54	.02	127	40	36			
11	.02	63	60	57	.12	38	58	54	.04	92	39	36			
12	.15	52	56	52	.10	13	58	53	.06	42	45	44			
13	.05	61	56	53	0	13	54	49	.12	89	50	52			
14	.10	23	60	57	.10	58	59	58	.10	87	46	42			
15	.05	32	60	58	.15	76	64	62	0	27	44	38			
16	.16	50	62	55	.20	101	64	63	.20	93	46	50			
17	.16	56	58	53	.07	49	58	55	-.02	84	42	42			
18	.09	38	60	56	.06	87	52	50	0	29	46	42			
19	.07	31	60	61	.06	27	46	44	.10	64	47	50			
20	.12	50	62	58	.10	29	52	49	.10	46	48	48			
21	.10	40	62	54	.08	45	54	54	.09	44	44	38			
22	.11	64	56	50	.08	44	54	54	0	30	44	36			
23	.15	50	58	49	{ }	{ }	M	52	.09	60	50	42			
24	.19	53	59	56	{ .08 }	{ 177 }	52	48	0	64	41	42			
25	.01	89	58	62	-.03	17	52	50	.13	118	48	50			
26	.01	34	62	60	.02	41	52	50	.06	49	46	48			
27	.03	50	60	58	.01	21	46	43	.08	31	47	46			
28	.06	24	59	54	.04	38	50	50	.03	53	46	49			
29	.09	91	62	57	.06	38	46	44	.13	120	46	52			
30	.11	51	66	60	.11	45	50	44	.04	126	48	48			
31	.03	43	54	53					.04	44	46	45			
TOTAL	3.47	1581	1902	1765	1.87	1389	(1517)	1335	1.79	1848	1394	1332			
MEAN	.11	51	61	57	.06	46	(54)	51	.06	60	43	43			

Notes: 1. { } multiple brackets indicate total for more than one day.
 2. () single brackets indicate monthly total or mean based on less than full months record.
 3. * ice on pan.
 4. M missing data.

Table 61 Rawson Lake Watershed summary of evaporation pan data for 1978.

Date	MAY				JUNE				JULY			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1					.03	42	43	39	.28	65	74	72
2					.15	46	56	51	.09	59	68	64
3					.16	42	62	53	.10	40	72	68
4	.19	54	58	52	.20	76	60	52	.19	96	73	70
5	.23	54	58	52	.21	77	66	64	.20	51	76	72
6	.29	62	56	50	.08	65	52	48	.33	88	70	68
7	.13	60	53	49	.20	56	60	51	.26	60	68	62
8	.03	89	42	40	.08	59	46	40	.12	67	66	60
9	.02	41	47	45	.14	101	51	55	.20	67	62	55
10	0	57	48	48	.28	81	70	66	.20	35	68	58
11	.07	44	52	46	.17	79	54	49	.16	100	71	67
12	.09	73	49	45	.17	33	60	52	.11	92	66	64
13	.15	56	54	50	.24	59	64	60	.13	68	66	59
14	.29	70	61	52	.08	58	55	55	.10	42	65	59
15	.31	69	60	60	.08	72	62	60	.08	45	67	64
16	.28	67	68	64	.29	80	80	67	.25	36	76	73
17	.31	54	74	68	.23	76	65	54	.15	70	74	72
18	.29	46	74	70	.30	132	66	66	.22	53	72	64
19	.01	88	54	50	.19	113	65	62	.08	27	62	58
20	.10	53	56	48	.03	54	52	49	.21	54	70	64
21	.30	50	63	58	.23	51	64	63	.24	67	69	62
22	.07	59	60	60	.34	64	72	65	.11	37	66	61
23	.20	51	72	68	.15	84	68	66	.14	36	69	62
24	.26	69	75	70	.04	32	66	62	.20	98	73	74
25	.38	76	74	71	.14	28	72	64	.34	76	76	72
26	.07	33	67	65	.07	38	68	64	.18	114	65	60
27	.22	38	68	64	.21	53	72	66	.18	59	67	62
28	.24	31	72	69	.31	61	75	70	.11	92	60	57
29	.11	128	67	56	.30	44	78	75	.22	34	66	58
30	0	111	50	46	.27	35	78	74	.10	76	63	62
31	.01	74	46	43					.09	46	66	62
TOTAL	(4.65)	(1709)	(1680)	(1563)	5.37	1891	1904	1762	5.37	1950	2126	1985
MEAN	.17	53	60	56	.18	63	63	59	.17	63	68	64

Date	AUGUST				SEPTEMBER				OCTOBER			
	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)	Net Water Loss (in.)	Wind Mileage (miles)	Average Water Temp. (°F)	Average Air Temp. (°F)
1	.24	57	67	63	.19	73	70	68	.04	79	54	55
2	.10	89	56	51	.16	52	62	59	.08	37	56	53
3	-.06	74	58	58	.11	66	67	66	.03	48	51	47
4	.37	76	72	66	.11	40	74	73	.02	52	47	45
5	.26	52	68	59	.18	56	79	76	.05	95	46	44
6	.21	98	69	67	.16	97	68	63	.07	72	44	40
7	.24	70	74	70	.06	62	60	57	.06	46	44	40
8	.17	87	62	57	.05	97	58	58	.09	88	49	50
9	.18	40	66	64	.14	39	69	65	.07	20	55	53
10	.15	84	66	66	.16	55	68	65	.10	136	56	57
11	.24	124	74	75	.12	155	51	51	.14*	136	48	45
12	.30	56	76	75	.18	118	52	49	.01*	69	38	30
13	.06	78	68	68	.02	56	46	46	0	30	38	32
14	.16	65	75	72	0	76	52	51	.06	63	39	36
15	.03	62	60	60	0	58	50	46	.04*	56	40	33
16	.06	159	63	60	.02	33	46	48	.04	118	40	37
17	.22	82	70	67	.15	35	56	57	.08	93	44	42
18	.14	74	56	54	.04	102	54	56	.07	103	40	40
19	.16	76	64	58	0	77	56	52	.07	84	49	52
20	.22	78	68	64	.07	43	50	47	.09	34	53	54
21	.11	79	66	59	.09	30	50	49	.10	104	50	46
22	.04	57	53	53	.12	108	54	56	.02*	47	40	36
23	.05	44	58	55	.13	76	58	57	.08	140	40	38
24	.08	39	66	64	.09	51	52	46	.06	101	42	42
25	.06	24	70	67	.10	93	50	50	.02*	37	38	34
26	.03	32	68	65	.06	02	48	46	-.01	101	38	36
27	.10	47	63	60	.08	19	49	50	0	47	37	29
28	.13	48	63	59	.07	60	53	53	.06	48	38	32
29	.17	73	59	53	.08	41	46	44	.07	116	42	44
30	.14	36	60	54	.05	30	52	50	.01*	68	38	36
31	.11	67	66	63					.03	79	39	42
TOTAL	4.47	2065	2028	1928	2.79	2002	1700	1634	1.05	2347	1375	1360
MEAN	.14	67	63	62	.09	67	57	53	.05	76	44	42

Notes: 1. { } multiple brackets indicate total for more than one day.
 2. () single brackets indicate monthly total or mean based on less than full months record.
 3. * ice on pan.

APPENDIX 6

SUMMARY OF RELATIVE HUMIDITY DATA

All relative humidity data summarized in this section of the report was measured at the Station 1 meteorological site. Relative humidity is the ratio of the amount of moisture in a given space to the amount the space could contain if saturated. Tables 62 to 70 provide open water season relative humidity data expressed as a percentage ratio from 1970 to 1978. In 1970, the values in table 62 are the average of readings taken at 07:00 and 12:00 (cst) daily from a wet/dry bulb hygrometer. From 1971 to 1978, a Cassella London recording thermohygrograph was used and the mean daily values in tables 63 to 70 were determined from the weekly charts. All original charts are on file in the ELA hydrologic studies office. This data has been used to calculate the actual vapour pressure term used in mass transfer evaporation equations.

Table 62 Summary of relative humidity data (%) from the Rawson Lake meteorological station for 1971.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1			90	72	75	79	M	
2			77	79	67	95	M	
3			58	94	78	94	M	
4			66	64	79	93	M	
5			53	69	80	89	M	
6		62	55	80	89	85	M	
7		70	51	86	87	98	91	
8		62	59	74	83	97	M	
9		91	80	70	75	93		
10		100	92	85	81	89		
11		72	88	86	76	100		
12		81	68	86	69	100		
13		54	50	84	71	89		
14		62	71	92	85	88		
15		84	87	73	94	M		
16		64	97	62	93	78		
17		61	92	70	78	M		
18		52	75	88	90	M		
19		63	65	80	85	M		
20		92	64	70	73	M		
21		89	67	82	88	97		
22		70	57	62	80	95		
23		50	68	64	86	M		
24		60	73	84	77	89		
25		96	90	63	81	83		
26		91	93	69	79	M		
27		92	80	75	85	M		
28		70	73	71	87	79		
29		M	78	88	94	78		
30		85	82	90	86	88		
31		94		68	86			
	Mean		74.7	73.3	76.8	81.8	89.8	

Notes: 1. All values are the average of two daily hygrometer readings taken at 8:00 and 19:00 CST.

2. M is missing.

Table 63 Summary of relative humidity data (%) from the Rawson Lake meteorological station for 1970.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1			70.0	63.0	81.9	80.7	94.9	
2		46.5	64.6	69.9	81.4	97.0		
3		57.5	75.2	62.7	88.1	96.3		
4		60.0	63.8	57.6	79.2	89.2		
5		100.0	60.3	61.5	87.7	92.6		
6		81.0	63.2	61.7	84.2	85.3		
7		(75.4)	72.6	62.2	75.7	90.1		
8		56.5	51.7	62.2	77.9	85.3		
9		47.5	51.7	64.2	80.7	80.7		
10		75.5	67.3	67.8	72.1	74.8		
11	77.5	71.7	62.4	63.9	69.9	76.4		
12	47.0	73.7	75.3	64.8	69.5	80.5		
13	47.5	78.7	66.2	74.1	(80.3)	84.3		
14	40.5	(89.0)	61.4	72.7	75.5	(82.4)		
15	39.0	M	64.4	61.5	82.7	90.5		
16	71.0	76.3	63.8	79.7	82.1	89.3		
17	100.0	76.6	56.4	86.5	81.2	98.0		
18	100.0	60.1	55.3	72.2	71.2	93.4		
19	55.0	80.5	66.3	82.8	72.5	(80.8)		
20	85.0	62.4	67.5	70.7	73.0	83.2		
21	72.0	60.8	67.5	72.5	77.9	(81.2)		
22	58.5	59.1	65.0	60.6	74.0	67.0		
23	100.0	60.1	57.7	56.2	70.1	67.8		
24	100.0	52.3	80.8	79.7	68.2	84.0		
25	96.0	71.0	83.8	82.2	66.3	89.7		
26	49.0	74.8	62.6	72.3	87.3	80.9		
27	50.5	77.5	85.6	72.9	90.6	90.0		
28	42.0	(73.7)	77.5	67.4	95.5	64.9		
29	75.5	(56.2)	74.4	75.2	84.7	68.9		
30	70.0	74.4	68.3	67.5	94.2	85.5		
31	37.5		77.2	64.9		94.5		
	Mean		68.8	67.5	69.5	79.1	84.5	

Notes: 1. Values from May 11 - June 6 are average of manual readings taken at 07:00 and 12:00 hours (CST).

2. All values from June 7 are daily means in % based on thermohygrometer charts.

3. M is missing.

4. () indicates value that is an estimate based on less than 24 hours of record.

Table 64 Summary of relative humidity data from the Rawson Lake meteorological station for 1972.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1		M	(64.5)	75.5	68.1	72.7	78.7	
2		M	(51.0)	71.4	88.2	(80.8)	92.5	
3		M	(43.0)	63.1	67.5	(62.0)	96.1	
4		(50)	(46.0)	55.4	66.0	(92.4)	86.7	
5		(61)	(69.0)	59.1	72.2	(50.2)	76.9	
6		M	(34.3)	61.3	70.3	85.3	69.1	
7		(57)	(32.7)	84.6	87.2	76.6	72.8	
8		(54)	(60.3)	78.5	79.8	71.2	75.2	
9		(39)	(60.7)	71.3	71.9	74.7	68.7	
10		(30.5)	(54.0)	66.4	85.5	83.1	79.7	
11		(42.0)	(97.7)	60.5	69.2	73.0	81.0	
12		(63.0)	(94.0)	77.6	85.0	82.6	68.7	
13		(100.0)	(94.3)	80.8	85.0	77.8	73.0	
14		(92.7)	(70.5)	84.2	82.0	76.3	70.7	
15		(70.7)	(82.7)	70.7	91.0	76.0	66.6	
16		(55.0)	64.3	78.5	87.4	87.1	62.9	
17		(66.0)	65.0	77.8	83.2	80.0	74.4	
18		(62.3)	87.2	67.1	72.1	(83.8)	(74.0)	
19		(72.0)	83.5	87.4	71.1	(72.7)	M	
20		(94.3)	60.4	68.4	90.6	70.8		
21		(65.0)	54.4	66.0	86.2	68.7		
22		(63.0)	44.5	88.4	69.4	69.7		
23		(73.0)	46.1	74.0	63.9	81.9		
24		(51.3)	41.8	77.0	66.5	92.4		
25		(70.3)	48.3	70.9	62.7	83.8		
26		(61.0)	61.1	64.6	65.5	91.8		
27		(70.3)	67.8	52.1	63.2	91.5		
28		(95.7)	79.8	68.6	60.3	85.7		
29		(72.3)	57.3	69.0	70.3	83.7		
30		(57.0)	54.5	66.8	77.3	82.0		
31		(55.7)		55.7	69.4			
Mean		65.3	63.6	70.7	75.1	78.6	75.9	

Notes: 1. All values are daily means in % based on thermohygrometer charts.
 2. M is missing.
 3. () indicates that value is an estimate based on less than 24 hours of record
 or 2 manual readings.

Table 65 Summary of relative humidity data from the Rawson Lake meteorological station for 1973.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1		M	55.3	60.0	63.5	89.8	79.4	85.2
2		M	55.3	55.6	68.3	89.2	80.0	75.2
3		52.7	(84.2)	69.5	73.7	92.1	86.7	78.0
4		42.2	(56.6)	69.9	77.3	90.1	72.6	63.2
5		66.5	76.5	69.5	77.6	76.2	63.6	74.4
6		93.2	67.1	66.2	85.1	70.1	67.6	82.9
7		71.7	66.9	64.9	80.9	67.9	85.9	
8		70.6	81.1	57.2	89.0	68.8	82.8	
9		74.6	87.8	60.0	91.8	79.9	86.5	
10		93.5	83.5	65.5	89.4	61.6	90.1	
11		78.5	63.9	70.7	73.3	66.7	87.4	
12		59.2	60.6	58.3	82.2	68.4	87.5	
13		55.0	54.0	68.9	74.0	85.6	78.4	
14		51.6	75.9	64.9	73.0	86.0	57.3	
15		64.0	84.4	61.6	81.8	84.2	65.0	
16		54.8	90.4	70.5	73.6	75.2	63.4	
17		53.3	94.0	67.9	72.2	67.9	90.8	
18		69.6	85.0	78.3	73.0	70.4	77.4	
19		72.1	86.4	75.0	66.8	69.6	78.5	
20		63.5	86.0	61.9	71.2	71.0	70.2	
21		56.3	83.3	57.4	73.8	85.3	69.4	
22		77.0	77.5	60.5	65.0	92.0	79.2	
23		76.2	66.6	84.1	79.4	73.7	90.0	
24		75.1	62.0	93.2	82.3	82.0	90.2	
25		90.8	77.0	91.7	85.8	85.8	84.8	
26		70.3	87.7	93.1	77.2	85.4	90.2	
27		58.3	81.8	86.5	75.0	69.0	90.6	
28		50.3	89.0	65.5	75.0	63.2	86.7	
29		50.8	(72.4)	87.0	64.9	67.8	78.2	
30		73.9	53.1	86.1	70.1	64.9	75.2	
31		70.2		66.4	87.2		86.8	
Mean		66.7	74.9	70.5	76.6	76.7	79.7	

Notes: 1. Values are daily means in % based on thermohygrometer charts.
 2. M is missing.

Table 66 Summary of relative humidity data from the Rawson Lake meteorological station for 1974.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1		(67.3)	(71.9)	(56.8)	87.5	85.0	76.3	86.6
2		(77.1)	(52.9)	59.4	70.2	77.5	64.3	95.6
3		65.0	62.5	83.2	61.8	69.1	57.0	90.5
4		78.8	62.6	70.9	60.4	64.6	76.2	(87.0)
5		64.0	88.4	65.5	(68.7)	64.9	90.0	(85.0)
6		(67.3)	93.4	63.8	57.0	80.4	92.1	(82.0)
7		53.6	76.6	73.9	59.8	86.8	86.2	78.2
8		57.4	(67.0)	82.1	59.5	69.1	87.0	78.9
9		(67.3)	(72.0)	77.0	63.2	64.1	78.2	77.0
10		72.6	(38.7)	66.0	86.5	86.6	75.0	86.4
11		(95.3)	50.4	58.5	92.4	92.8	86.8	92.7
12		(67.3)	48.0	69.2	(76.4)	71.8	72.8	(86.0)
13		(67.3)	50.5	(52.6)	66.9	72.0	73.4	(85.0)
14		(67.3)	74.3	(59.5)	77.5	85.2	75.6	(78.9)
15		(46.0)	81.3	68.5	72.2	80.7	93.2	84.8
16		84.3	(69.0)	75.9	73.0	87.5	90.3	
17		68.0	(55.4)	74.0	74.0	78.7	84.2	
18		56.7	58.0	55.8	78.6	73.6	90.2	
19		63.8	53.4	57.4	(79.2)	74.0	81.1	
20		80.0	51.8	53.6	93.3	75.8	74.8	
21		(66.0)	62.4	61.0	93.5	66.8	64.0	
22		69.5	48.1	53.2	89.0	66.3	54.9	
23		86.2	63.3	58.9	82.9	71.5	58.3	
24		63.4	(55.3)	73.2	89.8	84.2	60.5	
25		(65.8)	(73.0)	61.0	84.0	82.1	74.5	
26		(67.3)	(68.0)	57.7	(68.9)	64.3	62.5	
27		(67.3)	(70.5)	(49.5)	78.8	(67.6)	75.5	
28		(59.5)	(79.0)	75.2	88.9	73.1	86.6	
29		54.3	(47.5)	67.8	81.6	91.0	89.0	
30		54.0	(52.0)	67.3	87.6	(79.6)	91.8	
31		70.4		69.4	75.8		79.2	
Mean		67.6	63.2	65.1	76.7	76.2	77.5	

Notes: 1. Values are daily means in % based on thermohygrograph charts.
 2. () indicate value estimated from 2 manual readings at 8:00 and 13:00 CDT or less than 24 hours of recorded data.

Table 67 Summary of relative humidity data from the Rawson Lake meteorological station for 1975.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1			70.0	78.4	88.9	69.5	70.1	
2		67.4	62.7	77.4	72.6	68.0		
3		71.2	53.0	74.5	77.8	68.1		
4		78.2	63.0	70.7	73.4	64.3		
5		91.0	77.5	64.7	82.6	76.6		
6		81.4	69.1	60.9	89.4	71.9		
7		69.4	66.4	67.3	89.6	57.7		
8		62.6	68.1	76.7	71.9	73.0		
9		71.1	63.1	68.6	79.8	90.4		
10		83.7	62.0	71.0	88.2	86.8		
11		75.0	61.1	81.0	75.1	90.0		
12		63.2	76.1	73.7	86.1	79.3		
13		73.6	78.0	68.5	75.8	72.7		
14		71.9	67.4	87.5	68.9	88.2		
15	67.4	73.9	68.1	57.7	77.3	92.0		
16	51.8	61.8	71.3	68.4	75.5	85.9		
17	57.0	59.3	65.7	68.6	81.4	80.1		
18	59.0	57.3	72.8	64.4	90.4	66.8		
19	52.6	65.0	80.0	60.2	91.2	73.9		
20	62.4	83.9	81.8	78.7	91.6	63.1		
21	78.2	86.2	70.6	85.7	76.3	77.3		
22	62.8	87.6	66.0	71.7	81.9	M		
23	74.8	69.4	79.5	86.7	77.5	91.3		
24	56.6	71.2	67.9	77.5	72.9	93.0		
25	63.0	70.0	65.3	82.6	69.4	89.4		
26	60.0	83.9	67.9	82.8	70.2	M		
27	63.4	58.4	56.1	80.0	63.7	87.4		
28	64.2	67.1	60.7	72.2	75.7	78.0		
29	64.0	76.9	61.0	78.5	82.3	M		
30	80.2	80.0	60.6	86.5	85.6	M		
31	79.2		75.1	84.5		M		
Mean	64.5	72.7	68.3	75.1	78.9	78.3		

Notes: 1. Values are daily means in % based on thermohygrograph charts.
 2. M is missing.

Table 68 Summary of relative humidity data from the Rawson Lake meteorological station for 1976.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1		83	63	47	50	61	58	
2		(78)	59	46	50	(70)	(57)	
3		M	56	44	50	(81)	(48)	
4		(49)	51	54	71	67	63	
5		(54)	53	62	60	63		
6		58	60	76	56	53		
7		M	75	59	54	58		
8		41	64	60	65	66		
9		(42)	75	63	79	58		
10		(63)	64	64	75	47		
11		51	68	(59)	68	50		
12		45	67	M	80	77		
13		87	84	M	78	M		
14		72	85	60	54	(71)		
15		82	84	76	56	73		
16		(65)	67	59	54	(66)		
17		(45)	85	62	61	67		
18		36	79	58	69	67		
19		45	56	68	74	(64)		
20		63	55	48	58	65		
21		56	46	52	47	(72)		
22		48	47	67	51	(76)		
23		(38)	57	57	60	M		
24		40	67	62	61	M		
25		51	87	74	65	M		
26		64	73	55	70	M		
27		(55)	68	62	72	M		
28		59	61	(71)	58	66	(45)	
29		55	55	62	73	64	66	
30		78	57	50	73	71	59	
31		61			53	(70)		
Mean		57.2	65.7	60.2	63.2	64.2		

Notes: 1. Values are daily means in % based on thermohygrograph charts.

2. M is missing.

3. () indicates value that is an estimate based on less than 24 hours of record.

Table 69 Summary of relative humidity data from the Rawson Lake meteorological station for 1977.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1			78.4	68.2	65.2	81.6	63.2	85.4
2			66.0	64.0	66.4	73.4	61.2	68.2
3		48.8	61.4	62.8	73.8	80.6	64.6	64.0
4		64.0	50.6	50.8	82.4	88.6	80.0	57.2
5		93.6	88.6	81.2	79.4	89.8	82.6	66.4
6		81.0	67.6	75.2	73.6	72.0	70.8	60.4
7		60.4	73.0	62.4	76.8	79.0	77.2	86.4
8		52.8	75.0	71.0	72.2	89.4	80.8	89.4
9		50.2	66.4	66.2	67.2	87.2	79.0	
10		84.6	78.8	67.6	75.0	75.4	84.4	
11		62.0	79.4	81.8	69.8	70.2	69.0	
12		62.2	71.0	79.2	73.4	67.8	71.2	
13		63.2	85.8	73.0	76.4	86.4	62.0	
14		72.8	86.4	75.6	76.8	73.0	66.6	
15		82.8	90.4	63.2	78.0	67.4	71.8	
16		76.2	84.4	70.0	80.8	68.0	64.0	
17		83.4	82.0	74.8	70.8	80.2	79.0	
18		77.2	84.4	73.6	74.0	81.0	81.0	
19		89.4	88.8	83.8	72.4	83.0	68.2	
20		88.4	60.0	62.2	80.2	66.4	59.2	
21		68.8	53.4	63.4	78.8	68.8	63.6	
22		95.0	63.2	66.6	79.8	72.4	72.6	
23		95.8	81.0	66.6	68.8	79.2	68.4	
24		75.4	57.4	66.8	59.6	88.2	81.0	
25		70.4	52.0	57.8	80.2	90.8	70.8	
26		77.4	59.6	59.0	90.4	88.4	57.2	
27		80.8	60.8	73.2	89.2	89.0	59.4	
28		81.4	89.2	80.8	85.0	79.4	54.0	
29		95.0	73.4	72.2	77.2	80.4	63.6	
30		78.6	86.2	86.0	77.2	66.2	73.4	
31		95.0		76.0	88.4		86.4	
Mean		71.2	73.2	70.2	76.2	78.8	70.5	

Notes: 1. Values are daily means in % based on thermohygrograph charts.

Table 70 Summary of relative humidity data from the Rawson Lake meteorological station for 1978.

DATE	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.
1		M	92.2	72.0	81.0	80.4	75.4	66.9
2		M	67.4	84.8	83.5	83.0	79.3	56.3
3		43.5	67.8	83.4	77.5	80.4	90.4	60.8
4		50.9	71.0	85.4	64.0	83.0	90.9	72.1
5		49.2	65.8	76.4	64.4	82.4	85.7	71.4
6		52.8	84.3	72.4	68.8	87.3	75.8	73.5
7		57.5	68.3	62.7	76.4	90.7	65.4	59.5
8		91.3	80.2	74.8	72.4	91.3	87.3	65.6
9		46.6	67.1	74.7	70.9	75.2	74.1	74.7
10		83.8	61.1	64.4	80.5	73.9	77.2	80.0
11		85.4	77.4	63.8	73.7	85.8	71.2	79.2
12		82.9	70.1	84.3	65.2	65.4	79.6	77.9
13		59.1	51.8	75.7	84.0	90.8	73.8	93.0
14		38.2	72.6	84.2	83.0	92.2	86.0	85.0
15		64.3	85.8	86.2	92.0	85.6	92.0	
16		63.7	66.9	69.7	80.4	90.8	78.5	
17		39.6	67.2	79.0	83.2	75.2	70.0	
18		53.7	58.0	69.7	85.2	81.8	67.7	
19		86.1	69.3	88.1	72.0	85.3	71.2	
20		72.5	88.7	73.7	70.5	78.9	68.4	
21		60.8	58.3	68.1	86.5	77.9	75.4	
22		78.2	51.7	64.5	85.4	67.0	83.5	
23		73.3	77.8	82.7	89.5	66.8	70.5	
24		68.7	92.8	75.3	88.7	73.2	67.0	
25		72.1	82.2	65.9	88.2	74.8	85.7	
26		84.1	85.9	78.0	90.7	80.8	82.0	
27		69.6	75.6	69.4	92.7	75.2	79.6	
28		55.3	63.6	83.9	81.5	76.3	78.8	
29		86.9	59.7	60.9	75.4	90.7	73.4	
30		89.7	71.1	82.2	71.7	82.6	82.0	
31		90.9		81.0	73.5		62.3	
	Mean		68.0	71.7	75.4	79.3	81.0	76.8

Notes: 1. Values are daily mean in % based on thermohygrograph charts.

2. M is missing.

APPENDIX 7

HOURS OF BRIGHT SUNSHINE DATA SUMMARY

Bright sunshine observations in Canada and much of the world are made with the Campbell-Stokes sunshine recorder. Basically, the instrument consists of an optical glass sphere which focuses the rays of the sun on a curved, specially treated burn chart. A trace is recorded on the chart only when the sun is at an angle greater than 3° elevation, and completely unobstructed by haze or cloud. Charts are changed each evening in order to receive the next day's sun. Tables 71 to 80 summarize the daily total hours of bright sunshine for ELA from 1969 to 1978. Hourly values are available, but only daily totals are reported here. This instrument is a duration sunshine recorder only, and provides no information about the actual solar energy. Solar radiation data measured by a pyranometer are available for this station.

Table 71 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1969.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1							9.2	9.6	11.4	0.0	0.0	3.6
2							13.2	12.7	1.4	0.4	0.0	5.9
3							7.2	3.4	5.8	0.0	1.1	0.3
4							0.0	2.7	8.2	0.0	6.4	0.0
5							11.3	9.2	0.4	0.0	2.9	0.0
6							10.2	1.5	8.8	2.8	7.5	0.0
7							11.6	0.0	3.9	1.0	5.4	0.0
8							0.7	9.6	7.6	5.3	0.8	0.0
9							12.3	10.4	2.2	3.3	4.7	0.0
10							12.1	10.0	3.1	0.0	0.3	0.0
11							12.6	12.6	9.7	1.2	0.5	0.0
12							11.7	0.1	9.6	0.0	0.0	0.0
13							6.8	4.9	10.1	3.0	2.8	0.0
14							6.0	1.5	3.1	2.1	0.0	4.5
15	Station installed June 26						4.9	9.1	2.6	0.0	0.1	0.0
16							13.5	11.9	7.5	4.2	0.0	0.0
17							12.7	5.8	1.8	7.1	0.0	0.0
18							1.9	10.1	8.6	6.5	0.0	0.8
19							8.4	12.3	7.6	3.0	0.0	2.0
20							12.3	12.4	2.6	7.0	6.6	0.0
21							10.4	11.6	4.2	3.3	0.0	6.0
22							3.3	12.4	0.0	1.9	3.5	1.8
23							10.3	12.3	3.9	0.0	0.0	0.5
24							10.6	11.7	0.0	1.8	1.7	0.0
25							5.4	11.8	0.0	0.3	3.9	0.0
26							9.3	4.5	5.3	0.0	2.0	3.9
27							1.4	9.1	9.8	3.3	0.0	1.3
28							11.5	13.0	9.6	0.7	6.0	4.2
29							2.6	11.9	4.1	0.5	1.5	0.1
30							5.1	0.0	3.7	1.9	0.3	6.2
31							9.0	7.4	0.0	0.0	0.0	0.0
Total							266.1	249.5	130.5	64.0	64.0	29.8
Mean							8.6	8.1	4.4	2.1	2.1	1.0

Notes: 1. All values are daily total bright sunshine in hours.
 2. Hourly values are available but not included in this paper.

Table 72 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1970.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	0.7	0.1	9.3	9.7	4.8	8.8	14.4	12.1	5.8	5.3	0.1	0.0
2	1.5	3.9	0.0	6.5	2.9	12.8	8.1	9.4	0.0	0.1	2.6	0.0
3	0.0	3.8	0.0	6.0	8.6	13.8	0.2	12.7	2.9	9.6	7.6	0.0
4	3.7	2.8	8.8	6.9	4.4	14.2	14.2	11.9	8.5	4.4	0.0	0.0
5	2.9	6.6	0.5	0.3	10.7	14.1	13.6	13.0	11.8	9.1	6.8	2.5
6	4.1	2.2	6.9	1.9	9.3	13.8	12.2	7.8	0.0	0.0	0.3	4.3
7	0.0	3.3	7.7	11.0	8.9	13.8	5.2	10.4	0.0	0.0	0.0	1.5
8	0.0	0.2	8.2	1.4	9.0	12.5	12.2	11.6	0.0	0.0	0.0	0.0
9	5.8	0.3	9.3	9.7	0.0	7.1	13.5	11.1	0.0	0.0	0.0	3.4
10	5.8	5.0	9.3	10.3	0.0	7.1	4.0	9.7	6.9	0.0	0.0	5.3
11	4.4	4.8	9.0	11.4	3.3	0.0	8.9	12.9	2.4	0.0	3.7	1.9
12	6.8	7.6	0.0	9.6	0.0	11.1	1.1	12.1	2.4	0.0	0.5	0.0
13	6.9	7.7	6.2	7.2	9.3	8.6	10.6	12.5	2.9	0.0	6.6	0.0
14	0.0	2.2	4.7	4.0	0.4	11.9	6.4	1.5	2.8	0.2	0.9	4.6
15	0.0	6.3	9.6	1.5	0.0	3.1	12.9	6.6	0.0	3.4	0.0	0.0
16	5.7	0.0	9.5	0.0	10.8	1.1	13.1	2.3	10.3	8.2	0.0	0.3
17	6.7	0.0	10.4	0.0	8.8	8.8	3.8	12.6	9.9	7.9	0.0	0.3
18	4.1	8.1	10.4	8.3	11.6	8.2	0.0	0.9	8.1	7.8	0.0	2.4
19	0.0	8.0	8.7	0.0	13.4	12.7	13.5	11.5	9.5	4.5	0.0	4.9
20	6.8	3.8	10.5	0.0	0.4	13.4	13.1	11.9	2.2	7.6	0.3	4.0
21	6.4	5.1	9.9	0.0	2.1	14.4	13.5	2.5	1.5	7.3	2.9	0.8
22	3.7	8.9	4.1	0.3	13.1	13.7	8.6	4.0	0.4	3.3	0.0	0.0
23	0.0	8.7	7.3	1.3	9.8	6.2	7.5	11.1	5.0	2.6	4.9	5.0
24	0.0	6.2	5.8	10.0	5.9	13.3	4.1	12.4	5.5	0.0	0.0	0.0
25	0.0	5.7	1.2	10.3	0.0	0.0	12.4	12.4	0.9	0.0	0.0	5.6
26	0.8	9.0	3.2	3.1	0.2	3.3	9.7	9.6	4.3	6.6	4.4	0.0
27	0.0	9.3	7.1	0.0	2.4	8.1	13.4	7.2	7.7	0.0	0.0	4.8
28	2.8	7.0	10.0	0.0	6.7	7.1	13.4	10.9	4.6	0.0	0.0	3.9
29	0.5	6.9	1.0	1.9	11.8	1.3	3.0	9.7	0.0	0.0	0.0	5.2
30	4.0	4.5	1.3	3.2	4.5	11.1	11.4	9.0	0.3	5.0	0.5	0.0
31	0.0	9.9	0.0	0.0	10.8	12.3	0.2	0.2	0.0	0.0	0.0	0.0
Total	84.7	136.6	208.9	133.0	161.3	269.3	287.8	291.3	135.0	88.6	46.0	61.4
Mean	2.7	4.8	6.7	4.4	5.2	8.9	9.2	9.3	4.5	2.8	1.5	1.9

Notes: 1. All values are daily total bright sunshine in hours.
 2. Hourly values are available but not included in this paper.

Table 73 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1971.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	M	5.8	0.0	0.0	4.3	14.1	13.6	0.4	1.0	0.1	0.5	1.7
2	1.1	4.7	9.0	0.0	11.0	14.1	12.2	10.1	6.5	0.0	0.0	3.8
3	1.5	3.4	10.9	10.6	12.3	13.7	5.3	9.7	1.5	0.0	0.0	0.0
4	0.9	2.2	6.3	9.5	12.0	8.7	13.3	13.0	1.5	0.1	0.0	0.3
5	3.5	5.1	0.1	8.9	12.2	1.3	12.9	13.0	6.4	0.0	0.0	0.0
6	1.2	6.1	0.2	9.6	12.9	11.0	13.7	12.8	4.0	2.1	0.0	0.0
7	3.9	3.5	9.7	9.3	2.6	5.4	2.3	12.8	7.6	0.5	2.6	0.0
8	0.6	6.0	9.4	8.1	12.3	13.5	14.1	9.0	10.1	3.7	2.6	0.0
9	0.0	2.1	8.7	10.0	12.0	9.4	12.6	9.8	7.0	0.8	4.4	0.0
10	4.8	4.9	0.9	7.6	4.3	1.2	5.9	9.0	5.7	7.4	0.0	0.0
11	6.2	0.6	5.4	8.3	4.3	6.2	9.6	10.6	9.8	6.8	6.1	1.8
12	7.0	7.0	0.0	10.4	9.4	7.7	5.8	12.3	6.5	8.2	0.0	3.6
13	5.9	0.0	0.5	8.5	13.2	2.6	8.6	12.4	4.8	0.0	0.0	4.4
14	5.3	0.1	0.0	6.6	10.9	9.6	12.5	M	7.5	0.6	0.0	0.6
15	M	0.0	6.2	11.9	9.1	9.7	10.5	M	3.1	0.3	0.0	0.0
16	M	0.0	9.0	5.0	11.4	4.6	13.5	M	0.9	1.0	0.0	0.0
17	M	0.0	3.1	10.9	0.3	6.4	13.2	4.5	1.6	0.0	0.0	5.7
18	5.1	8.0	4.8	0.0	9.7	14.4	12.8	6.3	3.6	0.0	0.0	4.2
19	2.9	0.2	8.7	0.0	1.9	0.0	6.8	2.9	6.4	1.2	0.0	6.4
20	0.0	8.3	0.5	8.0	8.4	12.2	12.9	9.2	1.1	4.7	0.0	0.0
21	1.0	8.9	2.9	12.5	11.6	15.2	7.9	9.9	4.1	7.6	7.1	5.1
22	3.5	9.1	1.3	12.7	0.0	14.3	9.6	12.4	4.3	8.7	0.3	0.0
23	6.9	8.9	6.2	8.8	0.0	9.3	11.0	12.5	8.2	8.0	0.0	0.0
24	5.7	7.0	8.3	2.2	0.0	1.3	1.7	3.1	9.0	1.1	0.0	0.0
25	0.8	4.3	0.4	3.1	3.6	5.4	0.0	3.1	7.2	0.0	0.4	0.1
26	6.8	6.8	0.0	11.6	13.3	3.2	6.4	11.9	0.0	6.3	0.1	5.0
27	6.0	0.0	0.0	0.6	13.6	1.2	7.5	12.4	4.2	0.0	4.8	2.3
28	0.3	9.1	0.7	1.0	13.6	12.7	7.8	11.4	0.0	6.1	4.3	0.2
29	1.5		9.5	3.4	7.2	5.4	8.0	3.6	7.7	0.0	0.5	4.5
30	0.2		1.1	0.0	13.2	0.5	12.1	12.5	0.0	0.0	0.9	0.0
31	M		1.4		13.7		1.1	7.5		0.0		0.0
Total	(82.6)	122.1	125.2	199.1	264.3	234.3	285.2	(258.1)	141.3	75.3	34.6	49.7
Mean	3.1	4.3	4.0	6.6	8.5	7.8	9.2	9.2	4.7	2.4	1.2	1.6

Notes: 1. All values are daily total bright sunshine in hours.
 2. Hourly values are available but not included in this report.
 3. M is missing.
 4. () indicates missing data.

Table 74 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1972.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	0.0	0.0	1.3	0.0	11.6	10.6	4.7	5.5	8.5	4.8	6.1	5.3
2	0.0	4.7	9.1	6.7	12.1	11.8	5.8	3.8	11.4	1.1	0.0	3.0
3	4.3	3.7	1.1	5.5	0.7	13.9	12.0	13.0	9.6	0.0	0.0	5.1
4	5.8	7.1	8.3	5.4	11.2	13.6	13.8	11.7	10.8	5.3	0.0	1.5
5	0.0	6.0	9.2	8.1	1.4	11.3	9.1	5.9	11.6	0.0	0.0	0.0
6	0.0	7.4	0.0	8.6	6.6	13.7	6.5	9.1	0.0	5.2	0.0	4.1
7	5.5	4.2	0.0	10.7	8.3	14.0	4.6	1.9	4.3	4.1	0.0	4.2
8	0.0	7.4	4.0	0.2	13.1	0.0	6.4	5.0	9.4	3.8	0.0	0.0
9	2.4	5.9	8.4	3.7	12.9	10.0	10.8	10.4	7.7	2.5	0.0	4.0
10	0.0	1.6	0.0	2.4	10.3	13.7	8.7	1.3	1.1	3.1	0.0	3.8
11	1.9	3.5	6.3	0.9	9.2	0.0	12.7	12.4	9.9	1.3	0.0	2.5
12	0.0	0.0	6.5	0.0	1.6	0.0	8.9	8.7	3.3	6.5	2.1	5.6
13	0.0	0.0	9.0	4.5	0.0	0.8	4.3	4.3	7.1	4.6	5.3	0.4
14	0.9	0.7	M	5.2	3.6	7.3	3.9	2.2	7.4	3.4	2.7	0.0
15	5.7	3.4	0.0	3.2	12.8	3.1	3.9	1.5	5.6	4.5	3.0	3.6
16	0.0	4.7	M	6.4	13.2	14.1	10.0	5.5	2.5	5.7	0.0	3.4
17	0.0	0.0	9.2	0.0	8.5	12.5	9.3	8.9	4.1	3.4	0.0	2.0
18	1.9	8.0	0.0	7.9	9.4	2.5	9.7	12.0	6.4	3.3	0.0	1.5
19	7.0	5.8	0.0	4.1	7.0	2.5	4.9	11.1	1.7	5.7	0.0	0.8
20	6.8	0.1	5.8	11.1	3.3	14.4	13.4	2.3	2.7	4.7	0.0	0.0
21	0.0	6.1	0.0	0.0	13.1	14.0	10.3	0.0	1.6	0.0	1.3	1.3
22	2.6	3.9	9.0	0.0	4.8	14.2	0.0	12.4	8.3	7.7	0.0	0.0
23	0.0	3.7	9.8	0.2	11.1	14.3	12.1	12.3	2.9	8.6	2.1	3.0
24	0.0	6.4	4.4	10.6	10.3	14.3	1.5	9.0	0.0	2.9	4.9	0.1
25	7.2	6.6	9.6	10.2	10.8	14.3	6.5	12.4	0.3	2.9	0.0	0.0
26	4.2	5.9	6.7	6.9	12.0	11.9	5.4	10.2	0.4	5.3	0.0	0.0
27	4.3	1.0	0.0	0.6	7.9	9.5	10.4	11.8	0.2	0.0	0.5	0.3
28	7.1	4.1	0.0	3.0	0.0	3.7	8.8	12.1	0.9	0.1	4.1	0.0
29	5.9	2.6	1.1	0.1	8.2	13.5	11.4	11.5	2.8	0.0	6.0	0.0
30	7.1		0.0	8.7	13.8	14.0	10.3	7.6	3.5	0.0	1.9	0.1
31	0.6		0.0		11.9		12.6	7.5		0.0		0.0
Total	81.7	116.5	(119.8)	134.9	260.7	293.5	252.7	235.2	146.0	100.5	40.0	55.6
Mean	2.6	4.0	4.1	4.5	8.4	10.1	8.2	7.5	4.8	3.2	1.3	1.8

Notes: 1. All values are daily total bright sunshine in hours.
 2. Hourly values are available but not included in this report.
 3. M is missing.
 4. () indicates

Table 75 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1973.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	0.3	0.0	0.0	8.4	8.9	7.6	13.8	10.8	1.7	4.8	3.2	0.0
2	0.0	0.0	1.3	8.0	8.1	11.6	12.4	7.4	0.3	7.5	0.8	0.0
3	0.0	1.4	7.5	8.8	4.0	0.8	6.6	11.4	0.0	0.4	0.1	0.5
4	4.0	4.0	8.2	9.3	12.5	8.4	6.4	8.8	1.9	8.0	7.7	0.0
5	5.3	0.0	4.1	5.6	0.8	2.4	5.9	6.2	4.2	9.1	2.1	4.7
6	5.2	7.6	0.0	0.0	0.0	10.5	11.9	5.8	9.4	9.0	4.0	5.0
7	4.2	5.6	0.0	9.9	10.4	9.5	10.8	5.3	10.3	0.0	0.0	3.9
8	5.9	1.5	9.3	10.3	10.2	4.7	14.0	2.1	10.9	0.0	0.5	0.0
9	0.0	6.0	2.9	10.1	6.1	4.6	12.1	0.8	7.4	0.0	1.6	1.6
10	3.9	6.4	0.0	9.4	0.0	2.2	11.7	0.0	10.4	0.1	0.0	4.1
11	1.0	0.0	5.6	2.6	1.1	12.8	5.5	11.9	10.5	0.9	0.0	0.0
12	2.6	0.0	4.8	10.1	12.5	12.2	11.0	2.7	10.2	0.0	4.4	0.6
13	0.4	0.0	0.0	8.8	12.5	12.5	8.5	10.6	0.0	0.0	0.0	1.5
14	0.0	7.2	0.0	7.2	13.3	0.6	10.1	10.1	0.2	8.1	0.0	0.0
15	0.0	8.1	0.0	0.0	2.1	3.5	10.9	5.8	0.3	8.4	0.0	2.6
16	1.4	7.7	7.8	0.0	12.9	0.0	9.8	11.3	7.2	7.9	3.2	5.0
17	1.3	0.3	9.4	1.7	6.4	0.8	7.6	9.5	6.0	0.0	0.0	3.9
18	0.0	0.0	8.2	1.1	8.7	1.0	9.4	11.6	4.8	3.9	0.0	5.6
19	3.4	6.9	4.2	4.0	8.6	1.5	7.8	8.2	9.3	3.1	0.0	3.7
20	1.1	2.5	9.5	0.8	13.3	3.5	12.8	12.6	6.8	7.0	0.0	6.2
21	0.0	0.0	9.1	6.2	12.3	0.0	10.5	4.3	0.0	6.2	0.0	4.9
22	0.0	0.7	9.1	0.0	1.4	6.9	13.3	11.2	0.0	8.0	3.2	5.3
23	0.3	7.5	1.2	0.0	7.5	11.0	0.0	11.2	7.1	0.0	6.4	0.0
24	1.8	8.9	8.6	1.7	7.3	7.5	0.0	4.7	0.0	0.0	0.5	0.0
25	1.6	7.2	9.3	3.1	0.5	7.3	0.0	5.9	1.2	0.8	0.0	0.0
26	0.0	0.3	5.6	9.6	5.1	2.2	0.0	5.5	0.1	0.0	0.0	0.0
27	0.0	0.0	4.0	7.1	13.7	0.0	0.0	11.3	9.0	0.0	0.0	0.0
28	5.7	0.0	7.7	12.7	13.7	0.0	12.0	8.8	9.4	0.0	0.0	0.0
29	5.7	9.5	7.3	13.6	11.0	3.4	11.8	9.1	6.9	0.0	2.7	
30	5.5	9.7	11.9	7.0	13.9	2.5	9.6	9.3	7.0	0.2	6.0	
31	0.0	10.1		7.2		12.6	0.8		0.2		6.2	
Total	60.6	89.8	166.7	175.7	241.7	170.5	253.3	238.0	157.0	107.3	37.9	74.0
Mean	1.9	3.2	5.3	5.8	7.8	5.7	8.2	7.6	5.2	3.5	1.2	2.3

Notes: 1. All values are daily total bright sunshine in hours.
2. Hourly values are available but not included in this report.

Table 76 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1974.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	6.6	7.2	0.0	0.0	1.1	13.6	7.1	2.8	6.5	2.5	0.0	1.2
2	5.7	0.0	1.6	1.5	0.2	9.6	13.1	3.5	3.7	7.4	0.0	0.0
3	1.6	1.8	0.0	4.0	9.7	12.4	0.8	13.0	7.1	6.8	0.0	1.3
4	2.5	0.0	6.2	10.1	0.1	13.7	10.7	7.6	10.7	1.6	0.0	0.0
5	5.5	0.1	4.0	9.8	8.1	1.8	10.0	10.0	8.5	0.4	0.0	0.0
6	0.0	0.1	3.2	4.7	13.0	0.0	12.2	12.4	1.1	1.0	6.6	0.0
7	6.6	4.0	7.3	10.6	0.2	4.5	6.7	12.9	0.1	0.0	4.9	5.0
8	3.2	4.5	0.0	8.0	1.6	13.8	2.8	11.6	7.1	0.3	0.6	1.9
9	0.4	0.0	2.5	7.4	8.3	0.2	12.2	8.9	7.7	6.3	7.4	0.0
10	5.0	6.2	7.5	7.7	1.7	12.9	12.2	0.0	0.0	9.0	2.2	M
11	6.4	2.5	7.1	2.9	0.0	13.0	13.5	0.8	0.1	2.3	0.0	0.3
12	5.5	0.3	1.0	0.0	5.6	13.9	11.8	9.3	5.5	8.4	0.1	4.2
13	0.0	8.1	8.8	0.0	6.8	13.6	9.8	8.1	1.4	1.0	0.3	2.5
14	3.8	8.1	0.0	11.3	0.0	6.5	9.7	M	1.3	1.2	0.0	0.0
15	1.7	0.0	0.6	11.6	11.9	0.2	13.5	9.5	5.4	0.0	4.6	0.0
16	1.3	7.5	8.8	11.2	4.7	6.1	6.8	9.9	0.9	2.0	1.3	0.2
17	0.0	2.2	2.8	10.2	11.0	8.5	7.4	7.9	7.9	0.0	5.6	5.0
18	2.5	7.6	0.5	11.6	8.2	10.3	12.1	7.0	2.4	0.0	4.1	0.0
19	0.0	6.5	7.3	4.9	2.6	11.2	13.5	7.1	9.0	3.7	0.0	0.0
20	0.0	7.5	8.7	0.0	0.3	8.5	11.2	0.2	3.3	3.9	0.0	0.0
21	0.5	7.3	6.0	0.0	7.6	12.6	8.5	0.0	0.6	7.0	0.0	0.0
22	3.4	9.0	5.2	0.0	9.0	13.6	13.4	0.0	6.6	7.6	0.0	0.0
23	0.0	9.0	2.0	12.3	0.4	14.1	12.4	0.0	7.1	7.1	5.9	0.0
24	6.0	9.3	8.1	8.6	13.0	14.1	4.4	0.0	2.5	8.0	0.0	0.2
25	3.6	8.9	8.4	12.5	M	13.8	11.8	4.3	2.3	6.8	0.0	4.4
26	0.0	8.3	9.1	12.5	13.1	13.4	12.8	7.6	8.6	7.9	0.0	1.8
27	0.3	2.5	7.8	0.0	5.7	10.5	12.9	9.2	0.1	7.9	0.0	1.9
28	6.9	9.1	1.0	0.3	10.7	10.4	2.0	2.6	8.5	0.0	0.4	2.9
29	0.0	0.0	9.1	12.4	10.3	2.9	8.0	0.0	0.0	0.0	0.0	4.0
30	0.0	0.0	0.0	3.5	0.0	13.4	4.6	2.0	5.3	0.2	0.0	3.4
31	3.9	6.0		6.1		9.9	9.2		0.0		3.1	
Total	82.9	137.6	131.7	186.3	173.1	300.5	292.7	185.4	134.9	113.9	44.0	43.3
Mean	2.6	4.9	4.2	6.2	5.6	10.0	9.4	6.1	4.4	3.7	1.5	1.4

Notes: 1. All values are daily total bright sunshine in hours.
2. Hourly values are available but not included in this report.
3. M is missing.

Table 77 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1975.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	5.9	5.5	0.4	9.6	0.0	9.3	6.7	0.0	9.2	5.4	3.0	6.1
2	3.8	6.7	5.7	9.5	3.6	7.4	13.6	6.2	7.8	8.6	M	6.1
3	2.5	0.0	7.3	10.2	0.5	8.4	14.0	6.6	2.2	9.6	7.9	0.0
4	0.0	0.0	0.0	10.1	2.1	3.1	13.8	9.4	8.3	8.6	3.0	0.0
5	0.2	6.5	0.0	8.9	8.5	0.0	10.0	12.8	4.3	0.4	3.5	1.7
6	0.0	3.0	0.2	2.9	12.5	1.3	13.0	12.9	0.0	8.5	3.0	5.3
7	0.0	3.9	8.6	8.8	12.6	9.9	12.1	6.1	2.5	7.2	0.0	4.2
8	0.0	3.4	10.0	8.5	12.9	9.6	6.0	3.5	10.5	9.1	4.9	5.5
9	0.0	0.8	7.7	10.4	13.1	0.1	10.0	12.2	4.3	2.1	1.9	1.0
10	0.0	0.2	6.5	11.1	8.9	1.4	10.4	8.6	0.0	1.9	0.6	7.6
11	0.0	1.4	3.0	9.2	12.9	4.5	13.2	6.8	3.1	0.0	2.7	4.6
12	5.3	7.8	2.4	11.3	13.1	9.7	5.9	8.6	1.7	8.1	0.0	0.0
13	5.7	5.8	4.5	11.4	10.2	3.3	2.9	12.1	6.5	7.0	4.1	0.0
14	0.0	0.0	0.1	4.5	0.0	7.4	9.1	0.8	9.7	0.0	7.2	2.4
15	0.3	3.1	6.0	0.2	12.3	7.7	13.1	12.5	3.4	1.5	6.3	0.0
16	3.2	5.0	5.5	1.1	10.5	12.7	11.6	11.8	8.4	0.0	1.9	1.7
17	3.2	0.0	1.4	0.0	6.5	8.7	8.4	6.4	7.0	7.8	2.5	6.2
18	2.2	7.6	1.5	0.0	12.2	11.8	9.3	9.4	0.0	9.2	0.0	0.1
19	7.0	0.0	0.0	1.5	12.5	3.4	9.7	6.7	0.0	9.1	0.0	0.0
20	0.0	7.0	3.0	4.4	8.4	7.2	0.9	4.5	0.0	9.1	0.2	5.9
21	7.2	7.6	0.0	5.0	3.4	3.2	10.1	1.3	4.8	8.7	0.0	3.5
22	0.1	0.0	6.5	2.6	8.7	2.5	7.7	12.2	0.5	0.8	4.4	0.0
23	3.2	7.4	8.4	4.2	0.0	13.0	2.3	4.1	3.8	0.0	5.8	0.0
24	0.0	4.8	0.0	9.5	11.6	12.7	8.0	6.1	8.7	0.0	5.0	0.0
25	0.0	0.0	8.6	10.6	9.1	13.9	12.0	1.3	9.1	3.4	3.7	4.2
26	4.2	6.6	3.3	0.0	11.3	3.3	13.0	2.9	8.9	0.2	5.1	0.0
27	7.2	3.5	0.0	0.5	7.6	13.8	13.5	2.0	8.9	4.2	1.6	0.0
28	2.1	9.4	0.0	1.3	11.7	6.6	10.2	8.6	7.1	2.4	0.0	0.0
29	6.7	9.4	0.3	11.3	5.9	13.1	9.6	2.1	3.3	0.0	0.0	0.0
30	5.2	8.7	0.0	3.7	5.6	13.2	1.2	1.2	0.0	0.0	0.1	0.0
31	4.1	7.6		8.3			9.6	3.1		0.0		0.5
Total	79.3	107.0	126.3	167.6	260.0	207.4	306.4	210.3	144.0	136.2	78.4	66.6
Mean	2.6	3.8	4.1	5.6	8.4	6.9	10.0	6.8	4.8	4.4	2.6	2.1

Notes: 1. All values are daily total bright sunshine in hours.
 2. Hourly values are available but not included in this report.

Table 78 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1976.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	0.0	7.5	1.4	11.2	5.1	12.8	14.1	11.1	11.5	9.6	6.0	6.3
2	0.0	0.0	0.0	2.3	0.2	13.5	14.1	12.9	M	9.3	0.4	2.9
3	4.9	1.9	1.2	10.8	12.8	13.0	14.0	12.2	0.0	0.7	0.0	2.2
4	0.0	7.4	5.0	9.0	4.6	13.2	13.6	1.6	8.9	6.0	0.0	0.6
5	0.0	6.0	6.9	10.6	12.4	13.5	9.9	13.0	5.2	0.2	7.4	0.0
6	5.3	2.6	3.1	10.2	4.4	11.5	6.5	12.9	11.4	0.1	6.3	6.4
7	2.6	2.0	4.2	11.4	12.4	4.3	13.1	12.9	9.5	2.9	7.7	4.7
8	0.0	3.3	5.5	11.4	12.6	9.6	10.0	7.9	4.8	0.0	0.0	1.9
9	0.8	6.9	2.5	10.6	9.4	7.7	13.2	5.3	10.4	0.0	0.1	0.0
10	0.0	4.9	9.3	9.8	6.7	13.2	13.2	8.0	9.4	7.6	4.6	6.4
11	0.0	2.7	0.0	10.9	13.2	9.7	7.3	9.3	10.6	4.3	0.6	1.1
12	0.0	0.0	5.7	11.3	13.2	3.8	8.9	0.1	4.5	6.0	0.1	5.2
13	0.2	3.2	1.5	9.9	0.0	1.2	6.1	0.2	0.5	6.8	7.6	0.0
14	6.9	0.0	7.8	2.1	3.8	0.3	13.1	12.6	5.6	2.9	6.8	0.1
15	4.9	0.0	0.9	4.9	0.8	0.0	3.4	12.4	8.0	3.0	7.4	1.3
16	5.1	0.0	8.4	0.0	13.1	10.3	13.2	11.7	9.4	0.3	7.6	1.0
17	0.0	0.0	0.4	5.7	13.1	0.0	7.6	12.1	9.3	3.6	0.1	2.0
18	0.0	0.0	4.7	0.3	13.5	2.8	11.8	9.9	7.7	0.0	0.3	0.0
19	5.0	0.0	6.4	0.0	12.2	12.1	2.4	5.7	6.7	0.4	0.0	0.4
20	0.0	3.6	0.0	0.0	6.3	14.0	12.9	9.5	5.5	0.1	0.0	5.6
21	2.6	6.4	8.2	3.4	13.4	2.5	12.3	12.4	7.1	1.5	0.0	0.0
22	4.2	8.2	2.9	8.9	12.2	14.0	7.9	12.7	4.7	2.6	0.4	2.0
23	1.5	8.9	2.6	11.1	13.5	9.8	13.2	12.4	0.1	2.8	1.6	0.0
24	4.8	7.8	0.0	9.2	13.5	9.4	13.4	12.0	7.9	0.0	0.0	3.8
25	0.0	9.1	3.8	12.7	13.5	0.0	6.2	11.8	2.4	0.1	1.4	0.0
26	7.2	3.8	0.8	12.7	12.1	8.6	13.4	9.2	0.3	0.3	5.3	3.9
27	7.1	0.0	9.7	12.6	9.7	10.1	11.5	3.3	9.1	0.1	1.5	6.7
28	2.8	6.4	0.6	7.3	13.0	5.6	9.8	9.1	8.9	6.1	0.0	1.2
29	0.0	2.1	6.7	12.0	13.2	0.5	9.4	9.5	1.0	5.5	3.7	0.0
30	0.0	8.3	4.2	11.3	14.2	6.9	8.2	8.8	1.2	1.6	0.8	0.0
31	0.0	10.4		11.8			13.0	7.2		2.9		1.1
Total	66.9	104.6	124.3	231.2	305.8	253.9	316.3	289.2	(197.7)	82.4	80.3	72.3
Mean	2.2	3.7	4.0	7.7	9.9	8.3	10.2	9.3	6.6	2.7	2.7	2.3

Notes: 1. All values are daily total bright sunshine in hours.
 2. Hourly values are available but not included in this report.
 3. M is missing.
 4. () indicates missing data.

Table 79 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1977.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	0.0	0.5	9.3	0.5	12.2	9.4	12.9	12.8	0.6	9.0	3.5	0.0
2	2.8	0.2	5.8	6.6	12.9	13.4	10.9	10.0	6.7	8.3	0.3	5.4
3	4.3	1.9	9.1	6.9	6.0	10.3	13.7	9.7	0.1	7.5	6.4	4.9
4	0.0	7.7	0.7	9.0	6.7	10.5	12.4	4.3	0.0	0.2	3.9	1.1
5	0.0	6.5	4.4	7.8	0.0	0.2	0.0	6.2	0.0	0.4	2.7	0.0
6	4.6	7.5	8.6	5.1	10.6	13.7	7.3	8.9	3.3	0.2	3.8	5.6
7	1.6	0.1	8.0	8.3	12.8	10.9	6.4	4.9	8.3	0.0	0.0	3.9
8	0.0	0.5	7.2	11.3	13.0	7.7	5.8	10.5	0.2	0.1	0.0	0.0
9	0.0	0.4	8.5	11.2	12.4	6.8	12.8	9.2	0.0	3.2	0.0	6.8
10	5.2	0.0	2.5	9.7	0.3	0.7	9.6	6.9	8.7	0.1	4.2	5.4
11	2.0	0.0	0.4	7.1	9.4	4.5	4.1	8.0	7.5	3.2	5.7	0.0
12	6.0	0.0	0.0	4.1	12.5	12.8	5.9	7.2	7.5	8.3	0.1	0.0
13	0.0	0.0	0.0	11.9	9.7	0.0	5.7	6.7	2.3	7.1	2.5	0.0
14	0.0	8.0	0.0	9.1	9.8	0.0	7.5	5.0	8.3	7.1	4.2	2.8
15	0.7	8.1	0.1	0.2	7.9	0.0	13.6	1.5	9.6	8.5	0.0	0.0
16	3.6	0.0	2.0	7.8	13.1	4.0	13.3	7.7	10.0	6.6	0.0	0.0
17	0.0	1.0	7.0	4.6	6.1	3.0	10.8	12.4	1.3	0.0	0.0	0.0
18	4.5	7.3	0.9	0.7	11.8	1.1	10.4	8.3	0.3	4.7	0.0	0.0
19	0.0	2.3	6.9	1.2	8.6	0.3	4.6	10.6	0.0	7.9	0.0	0.0
20	6.7	6.7	0.0	0.0	4.0	13.8	13.6	7.4	3.6	5.5	0.0	0.0
21	5.9	2.2	5.9	11.5	10.1	14.2	13.6	6.7	1.8	8.7	0.3	6.5
22	0.0	1.1	1.3	3.5	2.5	12.5	12.2	8.9	0.6	7.3	1.8	4.2
23	1.6	4.2	9.5	8.2	2.9	4.5	10.8	11.1	0.0	7.7	1.1	0.6
24	0.6	0.0	2.5	8.7	13.3	13.0	11.5	12.4	0.0	0.3	6.3	1.2
25	0.7	0.0	0.5	9.3	13.4	12.8	13.0	4.3	0.0	5.0	4.5	0.0
26	4.7	1.0	0.0	6.1	11.9	12.6	11.4	0.0	0.0	3.4	0.8	5.1
27	0.6	7.6	3.9	3.6	11.8	12.1	8.4	0.1	0.0	8.9	2.6	1.3
28	0.0	9.1	9.3	12.4	10.2	0.6	8.7	4.5	5.4	7.8	1.6	4.4
29	0.0	0.0	10.7	2.9	7.8	8.9	8.2	1.2	1.6	2.7	5.0	
30	6.1	0.0	6.8	9.2	5.5	2.2	6.6	8.7	0.1	0.0	4.2	
31	1.5	8.8		0.0			7.8	0.0	3.5		1.0	
Total	63.7	83.9	123.1	203.9	267.4	218.7	289.8	221.0	96.0	142.2	59.0	69.4
Mean	2.1	3.0	3.9	6.8	8.6	7.3	9.3	7.1	3.2	4.6	1.9	2.2

Notes: 1. All values are daily total bright sunshine in hours.

2. Hourly values are available but not included in this report.

Table 80 Summary of hours of bright sunshine recorded at the Rawson Lake meteorological station in 1978.

DATE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.
1	0.9	7.0	9.8	5.5	12.6	0	7.6	6.9	6.5	2.0	6.9	2.4
2	0.4	7.3	1.6	3.2	6.2	13.1	0	6.7	3.9	4.2	8.0	3.6
3	0	5.3	9.3	0	11.1	9.5	2.7	9.1	9.9	0	4.3	3.9
4	4.6	1.8	9.8	0.3	10.2	10.5	5.3	12.9	4.9	0	0	2.6
5	0.1	8.2	10.2	4.3	10.7	11.9	11.0	12.6	9.8	4.1	7.7	5.6
6	1.8	8.2	10.2	0.8	12.7	0.1	11.7	11.9	3.8	4.5	M	0
7	1.0	7.4	8.8	10.4	5.1	12.9	10.7	10.6	0	6.0	3.0	1.7
8	6.6	7.6	3.4	3.6	0	4.6	5.3	6.6	0	6.2	2.4	4.3
9	0.7	7.2	1.9	0	4.5	5.4	10.3	12.0	7.7	9.2	1.2	3.8
10	3.6	3.7	3.4	1.0	0.4	8.7	11.9	6.1	8.6	8.6	0	4.7
11	2.3	7.1	8.0	0	2.7	0.4	12.7	9.0	0	4.6	3.9	0
12	2.3	8.4	5.4	0	1.1	8.5	3.1	12.3	7.4	3.7	5.6	0
13	5.7	0.2	M	0.1	12.9	13.2	6.3	1.2	0	8.1	0	1.3
14	4.1	3.8	M	0.5	13.1	0	4.1	4.6	0.1	0.6	2.0	1.3
15	0.2	1.8	M	9.5	13.1	1.5	7.2	0	3.0	2.1	2.7	1.8
16	6.3	6.7	M	10.6	13.0	10.0	11.9	2.1	0	3.7	2.6	0.1
17	4.9	0	M	8.8	13.0	10.2	3.2	8.7	7.9	8.1	0	0.9
18	6.4	6.6	0.7	10.4	13.2	14.1	12.0	2.4	0	4.1	0	1.1
19	7.3	6.9	8.9	0.8	0	5.9	4.2	12.3	3.1	8.4	4.5	0
20	6.4	9.1	0.9	12.8	8.8	0	11.5	10.4	4.4	8.4	5.7	0
21	6.2	8.1	0	13.3	13.3	13.5	12.4	6.4	3.9	7.3	3.9	0
22	2.7	0.4	8.2	12.6	2.7	14.2	2.9	0.2	8.5	3.9	1.1	2.5
23	0	0.8	9.3	6.9	9.3	6.6	7.5	0	7.9	1.4	0.1	3.0
24	3.9	0.3	10.0	12.5	12.6	1.5	7.2	3.4	7.7	0.2	0	4.2
25	0	6.8	6.1	8.7	8.3	4.8	11.9	3.5	3.8	0.1	0	3.6
26	3.0	3.2	0	13.0	1.9	3.4	9.9	2.0	2.9	0.1	0	2.2
27	0.2	4.3	1.8	12.1	8.2	8.2	11.7	0	6.7	0.4	0.1	4.1
28	6.6	8.8	8.8	12.3	10.0	13.7	1.0	4.7	4.0	5.8	3.0	0
29	6.5	9.2	12.4	0	12.1	12.5	8.5	0	1.4	4.5	1.1	
30	0.1	6.1	12.8	0	11.0	3.8	11.5	6.3	0.3	4.1	5.6	
31	5.4	0	0				8.2	10.4	6.6			5.9
Total	106.2	147.0	151.8	199.2	230.7	229.5	242.3	209.0	132.7	124.1	77.3	71.3
Mean	3.4	5.2	5.8	6.6	7.4	7.6	7.8	6.7	4.4	4.0	2.7	2.3

Notes: 1. All values are daily total bright sunshine in hours.

2. Hourly values are available but not included in this report.

3. M is missing.

APPENDIX 8

SURFACE WATER TEMPERATURE FOR RAWSON LAKE

A summary of Rawson Lake surface water temperature data for the years 1969 to 1978 is provided in Tables 81 to 85. Surface temperature is used in hydrometeorological studies to compute the saturated vapour pressure term in mass transfer evaporation equations. For the most part, the data is based on manual measurements in degrees Celsius using a thermometer or thermistor. In 1969, 1970 and 1971, an elaborate instrument tower near the centre of Rawson Lake provided recorded hourly values of surface temperature for part of the open water season. This recorded data was made available by the Canada Centre for Inland Waters (CCIW) in Burlington, Ontario. Only mean daily values of that recorded data are reported here. Dates of ice on and off, which define the open water season, are included with the temperature data for each year and are also summarized in Table 109 of Appendix 9.

Table 8) Rawson Lake surface temperatures for the year 1969.

Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C
<u>1969</u>											
April 27		ice off	July 13	15:55	23.0 A	August 18		20.9	Sept. 16		18.1
May 2	18:00	6.88	July 13		22.4	August 19		21.4	Sept. 17		17.4
May 4	05:20	7.92 A	July 14		22.6	August 20		21.2	Sept. 18		16.9
May 7	09:00	9.03 A	July 15		22.7 A	August 21		21.5	Sept. 19		16.5
May 10	17:00	8.88 A	July 16		22.8	August 22		22.1	Sept. 20		16.1
May 12	07:00	8.18 A	July 18		23.0	August 23		22.7	Sept. 21		16.3 A
May 13	07:00	8.45 A	July 19		22.7	August 24		23.5	Sept. 22	08:30	16.4 A
May 14	07:00	8.45 A	July 20		22.9	August 25	10:30	23.3 A	Sept. 22		16.3
May 15	09:05	11.58 A	July 21		22.8	August 25		24.2	Sept. 23		15.5
May 21	09:25	11.3 A	July 22		22.3	August 26		23.7	Sept. 24		14.7
May 26	09:10	12.47 A	July 23		21.9	August 27		23.27 A	Sept. 25		14.1
May 30		16.6 A	July 24		22.0	August 27		23.7	Sept. 26		13.9
June 5	09:21	14.0 A	July 25		21.8	August 28		23.9	Sept. 27		13.6
June 10	12:30	15.7 A	July 26		21.4	August 29		23.8	Sept. 28		13.3
June 17	09:00	14.9 A	July 27		21.6	August 30		23.3	Sept. 29		13.0
June 20		14.5	July 28		22.3	August 31		22.8	Sept. 30		12.7
June 21		14.6	July 29		23.3	Sept. 1		22.8	Oct. 1		12.2
June 22		14.6	July 30		22.6	Sept. 2	08:30	21.9 A	Oct. 2		12.1
June 23		14.8 A	July 31		21.8	Sept. 3		22.1	Oct. 3		11.8
June 24	09:00	14.8 A	August 1		21.9	Sept. 4		22.0	Oct. 4		11.8
June 24		15.6	August 2		22.3	Sept. 5		21.8	Oct. 5		11.7
June 25		15.8	August 3		22.3	Sept. 6		21.7	Oct. 6		11.3
June 26		15.6	August 4		22.2	Sept. 7		21.1	Oct. 7		10.9 A
June 27		16.7 A	August 5		22.7	Sept. 8		20.3	Oct. 8	09:15	10.48 A
July 2	09:20	17.0 A	August 6		22.1	Sept. 9		19.5	Oct. 8		10.5
July 7		18.1 A	August 7		21.1	Sept. 10		19.0	Oct. 9		10.3
July 8	08:30	17.4 A	August 12		22.6	Sept. 11		18.4	Oct. 23	13:45	6.0 A
July 8		17.6	August 13		22.2	Sept. 12		18.6	Nov. 3	08:30	4.15 A
July 9		17.9	August 14		21.1	Sept. 13		19.0	Nov. 15		no ice A
July 10		19.0	August 15		20.8	Sept. 14		19.2	Nov. 16	08:45	2.55
July 11		20.7	August 16		21.5	Sept. 15		18.8	Nov. 16		75% ice covered
July 12		21.6	August 17		21.5						

Note: Values marked "A" are manual readings with thermistor or thermometer.

All unmarked values are mean daily recorded temperatures from the Rawson Lake instrument tower.

Table 82 Rawson Lake surface temperatures for the year 1970.

Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C
1970											
May 7		25 cm of ice	June 30		21.5	August 11		24.6	Sept. 26		13.1
May 14		0-10 cm of ice	July 1	08:30	21.75 ^A	August 12		24.78	Sept. 27		12.6
May 16		ice gone ^A	July 1		21.5	August 12		24.6	Sept. 28		12.4
May 16	15:30	5.2	July 2		21.0	August 13		25.1	Sept. 29		12.5
May 19	09:30	5.85 ^A	July 3		21.0	August 14		24.8	Sept. 30		12.6
May 21	09:00	6.28	July 4		20.2	August 15		23.8	Oct. 1		12.53 ^A
May 27		7.7	July 5		20.8	August 16		22.4	Oct. 1		12.5
May 28	07:15	8.53 ^A	July 6		21.7 ^A	August 17		21.9	Oct. 2		12.0
May 28		8.0	July 7		22.28 ^A	August 18		21.5	Oct. 3		11.0
May 29		9.0	July 7		21.6	August 19		21.2	Oct. 4		10.7
May 30		10.6	July 8		20.89 ^A	August 20		20.7	Oct. 5		10.8
May 31		11.0	July 8		22.1	August 21		20.0	Oct. 6		10.9
June 1		11.4	July 9		22.5	August 22		19.4	Oct. 7	09:45	10.42 ^A
June 2		12.8	July 10		23.4	August 23		19.9	Oct. 7		10.3
June 3	07:15	13.54 ^A	July 11		24.9	August 24		20.28 ^A	Oct. 8		9.6
June 3		13.5	July 12		24.3	August 24		20.3	Oct. 9		9.1
June 4		15.8	July 13		24.5	August 25		20.5	Oct. 12		7.1
June 5	07:00	16.46 ^A	July 14		25.40 ^A	August 26		20.5	Oct. 13	12:30	7.17 ^A
June 5	12:30	18.30 ^A	July 14		24.6	August 27		20.2	Oct. 13		6.9
June 5	19:50	18.28 ^A	July 15	07:50	22.90 ^A	August 28		19.9	Oct. 14		6.6
June 5		17.5	July 15		23.8	August 29		19.6	Oct. 15		6.4
June 6		19.3	July 16		24.30 ^A	August 30		19.2	Oct. 16		6.4
June 7		20.6	July 16		24.0	August 31		19.2	Oct. 17		6.7
June 8		20.4	July 17		23.8	Sept. 1		19.1	Oct. 18		6.6
June 9		20.6 ^A	July 18		22.8	Sept. 2		19.2	Oct. 19		6.4
June 10		20.3 ^A	July 19		21.8	Sept. 3		19.5	Oct. 20		6.5
June 10		21.0	July 20		22.2	Sept. 4		19.8	Oct. 21	09:30	6.82 ^A
June 11		20.2	July 21		22.2	Sept. 5		20.0	Oct. 21		6.7
June 12		20.0	July 22		22.1	Sept. 6		20.2	Oct. 22		6.9
June 13		20.0	July 23		21.8	Sept. 7		20.0	Oct. 23		7.3
June 14		20.7	July 24		21.64 ^A	Sept. 8		18.9	Oct. 24		7.4
June 15		21.0	July 24		21.2	Sept. 9		17.04 ^A	Oct. 25		7.6
June 16		20.6	July 25		21.6	Sept. 9		18.1	Oct. 26		7.5
June 17		20.4	July 26		22.3	Sept. 10		17.2	Oct. 27		7.4
June 18	07:25	19.06 ^A	July 27		23.0	Sept. 11		16.5	Oct. 28		7.14 ^A
June 18		19.3	July 28		23.6	Sept. 12		15.5	Oct. 28		7.0
June 19		19.26 ^A	July 29		23.56 ^A	Sept. 13		14.7	Nov. 9	10:20	5.10 ^A
June 19		19.1	July 29		23.9	Sept. 14		14.2	Nov. 15		approx. freeze over
June 20		19.5	July 30		24.5	Sept. 15		13.7			
June 21		20.2	July 31		24.1	Sept. 16		13.5			
June 22	11:45	21.65 ^A	August 1		23.2	Sept. 17		13.6			
June 22		20.7	August 2		22.3	Sept. 18		14.0			
June 23		20.6	August 3		21.4	Sept. 19		14.8			
June 24		19.8	August 4		21.2	Sept. 20		16.1			
June 25		19.1	August 5		21.8	Sept. 21		15.5			
June 26		18.5	August 6		22.2	Sept. 22		14.0			
June 27		18.6	August 7		22.9	Sept. 23		13.43 ^A			
June 28		19.2	August 8		23.6	Sept. 23		13.6			
June 29		20.5 ^A	August 9		23.7	Sept. 24		14.3			
June 30		22.58 ^A	August 10		24.4	Sept. 25		13.6			

Note: Values marked "A" are manual readings with thermistor or thermometer.

All unmarked values are mean daily recorded temperatures from the Rawson Lake Instrument tower.

Table 83. Rawson Lake surface temperatures for the years 1971 and 1972.

Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C
1971											
April 30	06:00	ice off	June 26		20.1	August 9		22.9	Oct. 2		13.2
April 30	10:30	3.85 ^A	June 27		20.9	August 10		21.7	Oct. 3		13.2
May 1	10:30	3.89 ^A	June 28		20.8	August 11		21.3	Oct. 4	07:45	12.76 ^A
May 2	10:30	4.07 ^A	June 29		21.3	August 12	07:45	20.65 ^A	Oct. 4		12.8
May 3	15:00	4.64 ^A	June 30		21.3	August 12		21.0	Oct. 5		12.6
May 6		6.50 ^A	July 1	13:00	21.6 ^A	August 13		20.6	Oct. 6		12.5
May 10		9.45 ^A	July 1		20.8	August 14		20.5	Oct. 7		12.18 ^A
May 13		10.29 ^A	July 2		21.1	August 15		19.6	Oct. 7		12.1
May 20		10.4	July 3		21.4	August 16		20.4	Oct. 8		12.0
May 21		11.4	July 4		21.4	August 17		20.2	Oct. 9		11.7
May 22		11.8	July 5	08:20	20.52 ^A	August 18		21.1	Oct. 10		11.5
May 23		11.3	July 5		20.7	August 19		20.1	Oct. 11		11.1
May 24	08:30	10.27 ^A	July 6		20.7	August 20		20.3	Oct. 12		11.0
May 24		10.3	July 7		20.4	August 21		21.5	Oct. 13		10.6
May 25		9.6	July 8		20.2	August 22		20.6	Oct. 14		10.4
May 26		10.4	July 9		20.25 ^A	August 23		20.2	Oct. 15		10.1
May 27		11.1	July 9		20.1	August 24		19.7	Oct. 16		9.6
May 28		11.1	July 10		20.1	August 25		19.4	Oct. 17		9.3
May 29		12.9	July 11		20.7	August 26	08:35	18.85 ^A	Oct. 18	06:15	9.65 ^A
May 30		13.2	July 12		20.8	August 26		19.7	Oct. 18		9.7
May 31		13.7	July 13		20.1	August 27		19.8	Oct. 19		9.3
June 1		15.9	July 14		20.7	August 28		20.6	Oct. 20		9.1
June 2		15.4	July 15	07:58	20.50 ^A	August 29		20.7	Nov. 10	09:05	4.15 ^A
June 3		18.35	July 15		20.8	August 30	07:35	19.67 ^A			
June 3		17.5	July 16		20.8	August 30		20.3			
June 4		19.67 ^A	July 17		20.7	August 31		20.1	May 2		ice partly candled
June 4		19.4	July 18		21.1	Sept. 1		19.7	May 4		ice 30 to 50% gone
June 5		19.3	July 19		21.0	Sept. 11		19.9	May 5		ice off
June 6		19.4	July 20		21.3	Sept. 12		19.3	May 10	16:00	8.73 ^A
June 7	07:50	17.60 ^A	July 21		21.0	Sept. 13	07:40	18.73 ^A	May 15	07:50	11.01 ^A
June 7		18.2	July 22		21.3	Sept. 13		18.9	June 12	07:45	18.69 ^A
June 8		18.3	July 23		21.1	Sept. 14		18.3	June 22	15:10	21.16 ^A
June 9		18.1	July 24		20.9	Sept. 15		17.7	July 5	12:15	20.82 ^A
June 10		17.7	July 25		19.9	Sept. 16		17.2	July 10	08:00	20.61 ^A
June 11		18.3	July 26		19.4	Sept. 17		16.5	August 14	08:00	19.81 ^A
June 12		21.6	July 27		19.2	Sept. 18		16.2	Sept. 11	07:45	16.93 ^A
June 13		19.9	July 28		18.3	Sept. 19		15.7	Oct. 11	08:00	8.01 ^A
June 14		20.4	July 29	12:15	17.90 ^A	Sept. 20		15.2	Nov. 14		ice on
June 15		22.1	July 29		18.1	Sept. 21		14.8			
June 16		21.5	July 30		18.3	Sept. 22		14.4			
June 17	07:55	21.38 ^A	July 31		18.0	Sept. 23	09:30	13.82 ^A			
June 17		21.4	August 1		17.5	Sept. 23		13.8			
June 18		21.7	August 2	08:59	16.71 ^A	Sept. 24		13.8			
June 19		21.6	August 2		17.3	Sept. 25		13.7			
June 20		21.2	August 3		19.5	Sept. 26		13.4			
June 21		21.4	August 4		18.8	Sept. 27		13.6			
June 22		21.6	August 5		19.2	Sept. 28		13.3			
June 23		21.3	August 6		20.3	Sept. 29		13.4			
June 24		20.7	August 7		21.1	Sept. 30		13.1			
June 25		20.4	August 8		21.8	Oct. 1		13.9			

Note: 1971 values marked "A" are manual readings taken with a thermistor or thermometer.
 All unmarked values are mean daily recorded temperatures from the Rawson Lake instrument tower.

Table 84. Rawson Lake surface temperatures for the years 1973, 1974, 1975 and 1976.

Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C
<u>1973</u>											
May 1		ice off	May 7		ice off	April 18		break up	August 5		22.0
May 9	07:45	7.70	May 13		9.8	April 23		ice off	August 8		22.3
May 11	08:30	8.15	May 19		13.1	April 29		7.8	August 10		20.9
May 23	08:00	13.95	May 19		13.4	May 4		6.1	August 12		21.8
June 6	08:00	15.45	May 20		15.0	May 5		11.1	August 16		21.0
June 20	08:00	17.01	May 27		17.0	May 11		10.0	August 18		22.0
July 4	07:45	18.90	June 3		16.5	May 14		11.1	August 23		23.8
July 18	08:00	20.78	June 10		16.5	May 18		11.9	August 25		23.5
August 1	08:00	20.00	June 16		17.0	May 18		11.1	August 31		19.8
August 15	07:45	21.32	June 17		19.2	May 20		13.7	Sept. 5		17.8
August 29	08:00	22.82	June 24		21.1	May 25		16.0	Sept. 7		19.3
Sept. 12	07:50	17.22	July 1		24.5	May 31		22.2	Sept. 7		18.4
Sept. 26	07:45	12.33	July 8		24.3	June 4		23.0	Sept. 13		18.0
Oct. 10	08:00	13.07	July 14		20.6	June 7		22.7	Sept. 14		17.0
Oct. 12	14:00	12.21	July 15		22.0	June 9		25.3	Sept. 17		17.7
Oct. 17	09:30	9.20	July 22		23.7	June 10		23.5	Sept. 20		16.7
Oct. 24	08:00	9.09	July 29		24.7	June 13		21.6	Sept. 22		15.2
Nov. 7	09:00	5.0	August 5		21.5	June 15		19.0	Sept. 23		14.5
Nov. 18		ice on	August 11		20.5	June 15		18.7	Sept. 27		13.0
			August 12		21.5	June 22		18.0	Sept. 29		14.5
<u>1974</u>											
May 3		ice candled	August 26		21.3	June 24		21.3	Oct. 2		15.2
May 7	" "		Sept. 2		18.0	June 26		21.6	Oct. 3		13.4
May 9		ice off	Sept. 8		18.0	June 28		20.8	Oct. 5		11.9
May 10		4.3	Sept. 9		15.6	June 30		20.7	Oct. 5		11.6
May 30		14.6	Sept. 16		16.2	July 5		24.2	Oct. 8		10.0
June 28		22.25	Sept. 23		14.0	July 7		24.4	Oct. 11		10.0
July 9		23.95	Sept. 30		12.5	July 8		24.0	Oct. 13		10.5
July 16		23.95	Oct. 6		12.2	July 13		22.0	Oct. 14		9.8
July 18		26.12	Oct. 7		11.3	July 13		21.8	Oct. 18		7.9
July 25		23.16	Oct. 19		12.0	July 13		21.9	Oct. 19		7.7
August 2		19.08	Oct. 21		9.8	July 16		21.0	Oct. 21		7.0
August 8		22.30	Oct. 23		9.2	July 20		22.0	Oct. 21		7.0
August 13		20.98	Oct. 25		9.0	July 22		22.3	Oct. 24		5.9
August 20		18.65	Oct. 30		8.3	July 26		23.0	Oct. 25		5.6
August 20		19.75	Nov. 3		7.1	July 29		22.6	Oct. 26		5.3
Sept. 19		12.60	Nov. 3		6.9	August 2		22.7	Oct. 28		5.5
Oct. 17		6.40	Nov. 6		6.4				Nov. 8		ice on
Nov. 15		ice on	Nov. 9		7.3						
			Nov. 10		6.8						
			Nov. 13		5.5						
			Nov. 23		ice on						

Note: All years are manual measurements taken using either thermistor or thermometers at time shown.
If time is not shown, reading was taken in early morning.

Table 85 Rawson Lake surface temperatures for the years 1977 and 1978.

Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C	Date	Time	Temperature °C
1977											
April 26		ice off	June 30	09:30	21.0	May 6		ice off	August 3	09:30	19.2
April 28		7.3	July 5	09:15	22.3	May 9	15:00	6.0	August 7	12:30	20.5
May 2		6.4	July 7	09:00	22.9	May 10	10:00	6.0	August 8	09:10	20.2
May 3	15:00	9.5	July 12	08:00	19.8	May 11	10:00	6.0	August 9	12:30	20.2
May 5	09:15	8.4	July 12	09:30	21.0	May 12	09:00	6.2	August 10	07:35	19.8
May 8	17:00	13.9	July 14	09:30	21.0	May 13	10:00	6.2	August 13	09:30	21.0
May 8	17:00	12.6	July 19	09:30	24.8	May 15	11:10	9.4	August 15	10:30	21.5
May 10	13:50	11.6	July 21	09:30	24.2	May 16	12:30	11.0	August 15	06:55	21.1
May 14	08:35	17.3	July 26	09:00	23.0	May 17	18:00	15.0	August 16	10:30	20.0
May 15	08:55	17.7	August 2	09:35	21.0	May 18	08:00	15.5	August 17	09:00	20.8
May 16	10:50	19.5	August 4	09:30	19.5	May 18		19.0	August 21	08:20	18.8
May 17	10:20	19.0	August 9	09:15	20.0	May 22	10:00	14.8	August 22	16:00	18.5
May 19	09:35	20.5	August 9	10:40	20.0	May 23	11:00	16.5	August 24	07:19	18.0
May 21	21:00	19.5	August 11	09:15	17.0	May 23	07:10	14.9	August 28	15:30	20.9
May 24	08:15	18.9	August 16	09:10	19.0	May 25	08:25	18.3	August 29	13:30	19.0
May 26	10:10	21.5	August 18	09:15	17.0	May 26	10:00	19.5	August 30	08:30	18.2
May 27	14:35	23.1	August 23	10:10	18.0	May 30	12:45	17.0	August 30	13:15	18.9
May 29	18:10	23.0	August 25	09:15	17.5	June 1	11:00	14.0	August 31	08:17	18.0
May 30	13:00	23.2	August 27	08:45	17.5	June 6	17:00	15.0	August 31	13:00	19.2
June 1	14:25	20.8	August 30	10:00	17.0	June 7	10:40	15.8	Sept. 2	08:00	19.5
June 2	10:40	20.8	Sept. 1	09:15	17.0	June 8	10:30	15.0	Sept. 4	13:20	20.5
June 7	09:10	20.3	Sept. 6	-	15.4	June 13	13:30	18.0	Sept. 5	08:50	20.4
June 9	08:20	19.8	Sept. 8	11:00	15.5	June 15	10:15	15.6	Sept. 7	08:50	20.2
June 11	07:50	18.0	Sept. 15	12:30	15.8	June 16	09:45	16.2	Sept. 8	13:00	19.5
June 12	12:35	18.5	Sept. 29	11:00	13.0	June 18	11:30	18.2	Sept. 12	08:30	16.9
June 14	08:25	17.5	Oct. 4	07:50	11.9	June 19	20:00	17.6	Sept. 12	10:25	16.7
June 14	11:05	17.1	Oct. 6	11:00	10.1	June 20	14:00	16.8	Sept. 14	11:00	15.9
June 16	09:30	17.5	Oct. 13	10:10	9.1	June 20	07:00	16.4	Sept. 15	15:00	15.5
June 20	07:45	17.5	Oct. 27	10:45	7.9	June 22	10:00	18.1	Sept. 19	14:00	14.0
June 21	09:00	20.5	Nov. 3	10:00	7.3	June 27	09:10	20.0	Sept. 20	10:00	14.0
June 23	09:00	19.7	Nov. 22-23		Ice on	June 28	12:30	21.0	Sept. 21	10:00	14.0
June 26	09:40	22.4				June 29	10:00	22.2	Sept. 22	10:00	13.9
						June 30	18:00	24.0	Sept. 25	08:00	13.2
						July 3	13:00	23.0	Sept. 26	10:00	13.0
						July 4	11:15	23.0	Sept. 27	-	13.0
						July 6	10:25	23.9	Sept. 28	06:00	12.2
						July 8	09:20	22.5	October 3	10:00	12.5
						July 9	20:00	21.8	October 5	08:00	12.0
						July 10	10:30	21.3	October 7	15:00	12.0
						July 11	09:40	21.5	October 9	10:00	11.5
						July 13	09:00	20.0	October 10	11:20	12.0
						July 17	13:00	23.0	October 10	07:10	11.6
						July 18	13:10	22.4	October 12	09:00	10.8
						July 18	07:05	21.5	October 17	13:30	9.0
						July 20	09:10	21.0	October 19	09:00	8.5
						July 25	10:40	21.9	October 24	11:00	8.0
						July 27	09:00	20.9	October 26	09:00	7.5
						July 31	21:30	20.0	Nov. 1	10:30	6.5
						August 1	13:45	20.5	Nov. 16	09:00	3.0
						August 2	12:30	19.9	Nov. 19		Ice on

Note: All values are manual measurements taken using either thermometer or thermistor at specified central standard times.

