

*R. H. G. G. G.*

**PRELIMINARY REPORT**  
TO  
**International Joint Commission**  
RELATING TO  
**OFFICIAL REFERENCE**  
RE  
**LEVELS OF RAINY LAKE**  
AND  
**OTHER UPPER WATERS**

**TABLES**

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OTTAWA  
F. A. ACLAND  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1929

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AND

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TABLES

BY

S. S. SCOVIL

*Engineer for the Dominion of Canada*

R. W. CRAWFORD

*Major, Corps of Engineers*

P. C. BULLARD

*Major, Corps of Engineers*

*Engineers for the United States*

OTTAWA  
F. A. ACLAND  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY  
1929

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## CONVENIENT EQUIVALENTS FOR USE IN HYDRAULIC COMPUTATIONS

NOTE.—In these tables the following abbreviations are used:—

B.C.F. = billion cubic feet.

C.F.S. = cubic feet per second.

Where the unit "one year" is used, it is assumed to be a year of 365 days.

### TIME

1 day = 86,400 seconds.

### DISTANCE

1 mile = 1.60935 kilometres.

1 foot = 0.3048 metre.

### AREA

1 acre = 43,560 square feet.

1 acre = 209 feet square, nearly.

1 acre = 0.4047 hectare.

1 square mile = 640 acres.

1 square mile = 27,878,400 square feet.

1 square mile = 2.59 square kilometres.

### DATUM

Zero of Public Works Datum (P.W.D. Canada) = 611.61 feet above mean sea-level.

### WEIGHT OF WATER

1 cubic foot of water weighs 62.4 pounds.

### VOLUME

1 acre-foot = 43,560 cubic feet.

1 acre-foot = 271,337 British imperial gallons.

1 acre-foot = 325,851 United States gallons.

1 cubic foot = 0.0283 cubic metre.

1 United States gallon = 231 cubic inches; = .1337 cubic foot.

1 imperial gallon = 277.41 cubic inches; = .1605 cubic foot.

1 B.C.F. = 35.87 square mile feet.

1 B.C.F. = 22,957 acre-feet.

### RATE OF FLOW

1 cubic metre per minute = 0.5886 C.F.S.

1 C.F.S. = 7.48 United States gallons per second.

1 C.F.S. = 646,317 United States gallons per day.

1 C.F.S. = 6.23 British imperial gallons per second.

1 C.F.S. = 538,189 British imperial gallons per day.

### POWER

1 horse-power = 550 foot-pounds per second or 33,000 foot-pounds per minute.

1 horse-power = 76.0 kilogram-metres per second.

1 horse-power = 746 watts or 0.746 kilowatt.

1 horse-power = 1 C.F.S. falling 8.80 feet.

Horse-power of water wheel =  $\frac{\text{C.F.S.} \times \text{head} \times \text{efficiency}}{8.80}$

To calculate water power quickly:—

C.F.S.  $\times$  head  $\div$  11 = approximate horse-power on water wheel, realizing 80 per cent of theoretical power.

1,000 C.F.S. at 75 per cent efficiency = 85.227 horse-power per foot head.

1,000 C.F.S. at 80 per cent efficiency = 90.909 horse-power per foot head.

### RATE OF FLOW—VOLUME

10,000 C.F.S. for 30 days covers the Upper Rainy Watershed, area 14,500 square miles, to a depth of 0.769 inch.

10,000 C.F.S. for 30 days covers the Lower Rainy and Lake of the Woods, Proper, Watersheds, area 12,250 square miles, to a depth of 0.911 inch.

10,000 C.F.S. for 30 days covers the total Lake of the Woods Watershed, area 26,750 square miles to a depth of 0.417 inch.

1 C.F.S. for one year = 31,536,000 cubic feet.

1 C.F.S. for one year = 724 acre-feet.

1 C.F.S. for one 30-day month covers 1 square mile 1.116 inches deep.

1 C.F.S. for one hour = about 1 acre inch.

1 C.F.S. for one year covers 1 square mile 1.131 feet or 13.574 inches deep.

#### VOLUME—STORAGE—RATE OF FLOW

1 inch depth on the Upper Rainy Watershed, area 14,500 square miles, = 33.686 B.C.F.; = 1,068 C.F.S. for one year.

1 inch depth on the Lower Rainy Watershed, area 6,350 square miles, = 14.752 B.C.F.; = 468 C.F.S. for one year.

1 inch depth on the Lake of the Woods, Proper, Watershed, area 5,900 square miles, = 13.707 B.C.F.; = 435 C.F.S. for one year.

1 inch depth on the total Lake of the Woods Watershed, area 26,750 square miles, = 62.146 B.C.F.; = 1,971 C.F.S. for one year.

#### STORAGE—RATE OF FLOW

1 B.C.F. = 11,574 C.F.S. for one day.

1 B.C.F. = 413.36 C.F.S. for one 28-day month.

1 B.C.F. = 399.11 C.F.S. for one 29-day month.

1 B.C.F. = 385.80 C.F.S. for one 30-day month.

1 B.C.F. = 373.35 C.F.S. for one 31-day month.

1 B.C.F. = 31.7 C.F.S. for one year.

1 foot depth on 100 square miles = 3,227 C.F.S. for 10 days, 1,076 C.F.S. for 30 days and 88 C.F.S. for one year.

1 foot depth on the Lake of the Woods, area 1,485 square miles, = 47,916 C.F.S. for 10 days, 15,972 C.F.S. for 30 days, and 1,313 C.F.S. for one year.

1 foot depth on Rainy Lake, area 345 square miles, = 11,132 C.F.S. for 10 days, 3,711 C.F.S. for 30 days and 305 C.F.S. for one year.

1 inch depth on 1 square mile = 0.0737 C.F.S. per year.

#### STORAGE—VOLUME

NOTE.—Volumes per foot depth on individual lakes as given below are to be considered as approximate figures for quick calculations only.

1 inch depth on 1 square mile = 2,323,200 cubic feet.

1 foot depth on 100 square miles = 2.79 B.C.F.

1 foot depth on the Lake of the Woods, area 1,485 square miles, = 41.4 B.C.F.

1 foot depth on Rainy Lake, area 345 square miles, = 9.6 B.C.F.

1 foot depth on Namakan Chain of Lakes, area 100 square miles, at elevation 1,118 = 2.79 B.C.F.

1 foot depth on Namakan Lake, area 38.6 square miles, at elevation 1,118 = 1.08 B.C.F.

1 foot depth on Kabetogama Lake, area 39.1 square miles, at elevation 1,118 = 1.09 B.C.F.

1 foot depth on Sandpoint Lake, area 14.8 square miles, at elevation 1,118 = 0.41 B.C.F.

1 foot depth on Crane Lake, area 5.1 square miles, at elevation 1,118 = 0.14 B.C.F.

1 foot depth on Little Vermilion Lake, area 2.36 square miles, at elevation 1,118 = 0.07 B.C.F.

1 foot depth on Loon Lake, area 3.79 square miles, at elevation 1,164 = 0.11 B.C.F.

1 foot depth on Lac la Croix, area 42.3 square miles, at elevation 1,183 = 1.18 B.C.F.

1 foot depth on Iron Lake, area 3.12 square miles, at elevation 1,219 = 0.09 B.C.F.

1 foot depth on Crooked Lake, area 15.8 square miles, at elevation 1,249 = 0.44 B.C.F.

1 foot depth on Basswood Lake, area 39.8 square miles, at elevation 1,301 = 1.11 B.C.F.

1 foot depth on Birch Lake, area 1.25 square miles, at elevation 1,335 = 0.03 B.C.F.

1 foot depth on Carp Lake, area 2.25 square miles, at elevation 1,357 = 0.06 B.C.F.

1 foot depth on Knife Lake, area 8.9 square miles, at elevation 1,385 = 0.25 B.C.F.

1 foot depth on Cypress Lake, area 1.8 square miles, at elevation 1,385 = 0.05 B.C.F.

1 foot depth on Saganaga Lake, area 29.1 square miles, at elevation 1,431 = 0.81 B.C.F.

1 foot depth on Northern Light Lake, area 24.1 square miles, at elevation 1,441 = 0.67 B.C.F.

AREAS OF LAKES, OTHER THAN BOUNDARY LAKES, OF AREA GREATER THAN  
10 SQUARE MILES

LAKE OF THE WOODS WATERSHED

Lake	Area, square miles	Lake	Area, square miles
Shoal.....	107.0	Manitou.....	34.1
Agnes.....	14.0	Net.....	11.6
Anzhelumming.....	20.0	Otukamamoan.....	20.9
Atikwa.....	21.7	Pelican.....	19.0
Bowstring.....	14.2	Pickerel.....	20.8
Burntside.....	13.8	Pipestone.....	14.9
Clearwater.....	12.0	Quetico.....	17.8
Clearwater West.....	12.8	Rowan.....	20.8
Dogtooth.....	11.8	Saganagons.....	10.3
Dogwater.....	42.5	Sturgeon (Maligne Watershed).....	16.9
Crow.....	40.6	Sturgeon (To Flint Lake).....	13.0
Kawnipi.....	20.2	Trout.....	13.2
Lac des Mille Lacs.....	93.6	Vermilion.....	59.7
Lawrence.....	14.0	White Otter.....	33.6
Little Turtle.....	10.1		

AREAS OF LAKES AND INTERCONNECTING STREAMS NEAR THE  
INTERNATIONAL BOUNDARY

LAKE OF THE WOODS WATERSHED

Lake	Area, square miles	Lake	Area, square miles
Lake of the Woods.....	1,485.0	Carp.....	2.2
Rainy River.....	25.7	Knife Lake.....	8.9
Rainy Lake.....	345.0	Knife River.....	0.1
Namakan.....	38.6	Cypress.....	1.8
Kabetogama.....	39.1	Moose.....	1.1
Sand Point.....	14.8	Ensign.....	2.4
Crane.....	5.1	Newfound.....	0.9
Little Vermilion.....	2.4	Saganaga.....	29.1
Loon River.....	0.8	Northern Light.....	24.1
Loon Lake.....	3.8	Mariboef.....	1.4
Namakan River.....	2.1	Gneiss.....	0.1
Lac la Croix.....	42.3	Round Lake.....	0.5
McAree Lake.....	4.1	Granite Bay.....	0.1
Bottle Lake.....	0.2	Granite River.....	0.2
Iron Lake.....	3.1	Granite Lake.....	0.5
Crooked Lake.....	15.8	Pine.....	0.3
Basswood River.....	0.5	Pine River.....	0.1
Basswood Lake.....	39.8	Gunflint and Magnetic.....	7.1
Birch.....	1.2	North and Little North.....	4.3
Sucker.....	0.5		



## LAKE OF THE WOODS WATERSHED AREAS

## PRIMARY DRAINAGE BASINS

	Total	Canada		United States	
		Square miles	Per cent	Square miles	Per cent
Above Kenora.....	26,750	15,565	58.2	11,185	41.8
Water.....	3,960	2,795	70.6	1,165	29.4
Land.....	22,790	12,770	56.0	10,020	44.0
Above mouth of Rainy River.....	20,850	10,850	52.0	10,000	48.0
Water.....	2,160	1,460	67.6	700	32.4
Land.....	18,690	9,390	50.2	9,300	49.8
Above International Falls and Fort Frances.....	14,500	10,135	69.9	4,365	30.1
Water.....	2,025	1,445	71.4	580	28.6
Land.....	12,475	8,690	69.7	3,785	30.3
Above Kettle Falls.....	7,200	3,290	45.7	3,910	54.3
Water.....	1,000	490	49.0	510	51.0
Land.....	6,200	2,800	45.2	3,400	54.8
Above mouth of Namakan River.....	5,420	3,150	58.1	2,270	41.9
Water.....	760	450	59.2	310	40.8
Land.....	4,660	2,700	57.9	1,960	42.1
Above outlet of Lac La Croix.....	5,035	2,765	54.9	2,270	45.1
Water.....	720	410	56.9	310	43.1
Land.....	4,315	2,355	54.6	1,960	45.4
Above outlet of Maligne River.....	2,655	2,450	92.3	205	7.7
Water.....	350	310	88.6	40	11.4
Land.....	2,305	2,140	92.8	165	7.2
Above Rebecca Falls.....	2,000	155	7.7	1,845	92.3
Water.....	285	51	17.9	234	82.1
Land.....	1,715	104	6.1	1,611	93.9
Above Curtain Falls.....	1,940	153	7.9	1,787	92.1
Water.....	266	50	18.8	216	81.2
Land.....	1,674	103	6.2	1,571	93.8
Above Upper Basswood Falls.....	1,800	119	6.6	1,681	93.4
Water.....	250	42	16.8	208	83.2
Land.....	1,550	77	5.0	1,473	95.0
Above Prairie Portage.....	275	62	22.5	213	77.5
Water.....	63	13	20.6	50	79.4
Land.....	212	49	23.1	163	76.9
Above Silver Falls.....	740	535	72.3	205	27.7
Water.....	97	57	58.8	40	41.2
Land.....	643	478	74.3	165	25.7
Above Northern Light Falls.....	385	385	100.0		
Water.....	40	40	100.0		
Land.....	345	345	100.0		
Above Saganaga Falls.....	187	95	50.8	92	49.2
Water.....	23	7	30.4	16	69.6
Land.....	164	88	53.7	76	46.3

## SECONDARY DRAINAGE BASINS

	Water	Land	Total
Tributary to Basswood Lake— Kawishwi River, above outlet of Garden Lake.....	76	1,109	1,185
Tributary to Namakan River— Quetico River.....	31	244	275
Tributary to Namakan Lake— Vermilion River above Crane Lake.....	115	790	905
Vermilion River about outlet of Vermilion Lake.....	85	390	475
Tributary to Rainy Lake— Seine River above Wild Potato Lake.....	223	2,027	2,250
Seine River above outlet of Lac des Mille Lacs.....	106	554	660
Pipestone River.....	6	118	224
Turtle River above Red Gut Bay.....	185	1,705	1,890
Little Turtle River above outlet of Turtle Lake.....	27	225	252
Turtle River above Little Turtle Lake.....	137	1,223	1,360
Turtle River above outlet of Turtle Lake.....	120	1,000	1,120
Turtle River above outlet of White Otter Lake.....	70	300	370
Otukamamocan Lake above outlet of lake.....	50	375	425
Manitou Lake above Government dam.....	70	275	345

RAINY LAKE INVESTIGATION

INDIVIDUAL LAKE AREAS—SAGANAGA LAKE AND NORTHERN LIGHT LAKE RESERVOIR  
including following waters:  
SAGANAGA, NORTHERN LIGHT, GNEISS, MARIBOEUF, ROUND LAKES,  
AND GRANITE BAY

AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevations	1431	1435	1440	1441	1445	1448	1450
Saganaga.....	29.06	31.45	34.44	35.03	37.41	39.19	40.38
Gneiss.....		0.07	Included	in Saganaga			
Northern Light.....				24.11	28.26	31.37	33.45
Mariboeuf.....				1.39	1.65	1.84	1.97
Round Lake.....				0.51	0.57	0.61	0.64
Granite Bay.....						0.10	0.16
Total area in square miles at elevation.....	29.06	31.52	34.44	61.04	67.89	73.11	76.60
Total area in United States territory.....	12.25	13.30	14.47	15.67	17.06	18.24	18.99
Total area in Canadian territory.....	16.81	18.22	19.97	45.37	50.83	54.87	57.61

Capacity of reservoir between elevations 1431 and 1435 = 3.38 B.C.F.  
 " " " " 1431 and 1440 = 7.98 "  
 " " " " 1431 and 1441 = 9.31 "  
 " " " " 1431 and 1445 = 16.50 "  
 " " " " 1431 and 1448 = 22.40 "  
 " " " " 1431 and 1450 = 26.57 "

Sheet Number	Can.		U.S.		Can.		U.S.		Can.		U.S.		Can.		U.S.	
	1431	1431	1435	1435	1440	1440	1441	1441	1445	1445	1448	1448	1450	1450		
1.....							5.87		6.24		6.50		6.68			
2.....							7.79		8.21		8.53		8.74			
3.....	1.88		2.25		2.72		7.36		10.48		12.80		14.35			
4.....	1.05		1.25		1.50		8.25	0.40	9.16	0.42	9.88	0.50	10.36	0.55		
5.....		0.76		0.96		1.20		1.25	1.46		1.62		1.72			
6.....	5.42	11.02	5.82	11.81	6.28	12.69	6.52	13.39	6.69	14.40	6.79	15.14	6.88	15.65		
7.....	5.26		5.45		5.70		5.75		5.97		6.12		6.23			
8.....	3.20	0.47	3.45	0.53	3.77	0.58	3.83	0.63	4.08	0.78	4.25	0.98	4.37	1.07		
Totals.....	16.81	12.25	18.22	13.30	19.97	14.47	45.37	15.67	50.83	17.06	54.87	18.24	57.61	18.99		
	29.06		31.52		34.44		61.04		67.89		73.11		76.60			

BASSWOOD LAKE RESERVOIR

AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevations	1301	1305	1310	1312	1315	1320
Total.....	39.84	43.69	49.57	51.15	53.54	57.41
United States.....	21.57	24.27	28.69	29.69	31.20	33.66
Canada.....	18.27	19.42	20.88	21.46	22.34	23.75

Capacity of reservoir between elevations 1301 and 1305 = 4.66 B.C.F.  
 " " " " 1301 and 1310 = 11.16 "  
 " " " " 1301 and 1312 = 13.97 "  
 " " " " 1301 and 1315 = 18.35 "  
 " " " " 1301 and 1320 = 26.08 "

Sheet Number	Can.		U.S.		Can.		U.S.		Can.		U.S.	
	1301	1301	1305	1305	1310	1310	1312	1312	1315	1315	1320	1320
12.....	2.61	1.15	2.78	1.26	3.00	1.39	3.12	1.43	3.30	1.48	3.59	1.58
13.....	3.14		3.46		3.86		3.96		4.10		4.34	
15.....	8.13	3.44	8.53	3.56	9.04	3.71	9.32	3.76	9.75	3.84	10.44	3.94
16.....	4.39	10.25	4.65	11.48	4.98	13.01	5.06	13.36	5.19	13.88	5.38	14.74
17.....						1.06		1.11		1.20		1.32
18.....		6.73		7.97		9.52		10.03		10.80		12.08
Totals.....	18.27	21.57	19.42	24.27	20.88	28.69	21.46	29.69	22.34	31.20	23.75	33.66
	39.84		43.69		49.57		51.15		53.54		57.41	

## REPORT OF ENGINEERS

CROOKED LAKE RESERVOIR  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevations	1249	1250	1255	1260	1265	1270
Total.....	15.82	16.31	18.72	21.14	24.48	27.82
United States.....	8.02	8.27	9.50	10.73	11.78	12.83
Canada.....	7.80	8.04	9.22	10.41	12.70	14.99

Capacity of reservoir between elevations 1249 and 1250 = 0.45 B.C.F.  
 " " " " 1249 and 1255 = 2.89 "  
 " " " " 1249 and 1260 = 5.67 "  
 " " " " 1249 and 1265 = 8.85 "  
 " " " " 1249 and 1270 = 12.49 "

Sheet Number	Can. 1249	U.S. 1249	Can. 1250	U.S. 1250	Can. 1255	U.S. 1255	Can. 1260	U.S. 1260	Can. 1265	U.S. 1265	Can. 1270	U.S. 1270
14.....									0.85		1.71	
19.....	0.45	0.44	0.48	0.50	0.64	0.80	0.79	1.09	0.93	1.40	1.07	1.72
20.....	5.23	4.78	5.41	4.91	6.32	5.52	7.23	6.14	8.38	6.58	9.53	7.01
21.....	2.12	2.80	2.15	2.86	2.26	3.18	2.39	3.50	2.54	3.80	2.68	4.10
Totals.....	7.80	8.02	8.04	8.27	9.22	9.50	10.41	10.73	12.70	11.78	14.99	12.83
	15.82		16.31		18.72		21.14		24.48		27.82	

IRON LAKE RESERVOIR  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevation	1219	1225	1230	1235	1240
Total.....	3.12	3.93	4.60	5.04	5.47
Canada.....	0.72	0.82	0.90	0.98	1.05
United States.....	2.40	3.11	3.70	4.06	4.42

Capacity of reservoir between elevations 1219 and 1225 = 0.59 B.C.F.  
 " " " " 1219 and 1230 = 1.18 "  
 " " " " 1219 and 1235 = 1.85 "  
 " " " " 1219 and 1240 = 2.58 "

LAC LA CROIX RESERVOIR  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevations	1183	1186	1190	1195	1200
Total.....	42.28	48.06	55.76	60.64	65.52
Canada.....	22.61	25.79	30.03	32.87	35.70
United States.....	19.67	22.27	25.73	27.77	29.82

Capacity of reservoir between elevations 1183 and 1186 = 3.78 B.C.F.  
 " " " " 1183 and 1190 = 9.57 "  
 " " " " 1183 and 1195 = 17.68 "  
 " " " " 1183 and 1200 = 26.47 "

LOON LAKE RESERVOIR  
AREAS IN SQUARE MILES AT ELEVATION LISTED  
(East of 92° 19' only)

Elevation	1164	1170	1175	1180	1185	1190	1195	1200
Total.....	3.79	4.86	5.27	5.69	6.18	6.68	7.17	7.66
Canada.....	0.68	0.92	1.00	1.08	1.18	1.28	1.44	1.60
United States.....	3.11	3.94	4.27	4.61	5.00	5.40	5.73	6.06

Capacity of reservoir between elevations 1164 and 1170 = 0.72 B.C.F.  
 " " " " 1164 and 1175 = 1.43 "  
 " " " " 1164 and 1180 = 2.19 "  
 " " " " 1164 and 1185 = 3.02 "  
 " " " " 1164 and 1190 = 3.92 "  
 " " " " 1164 and 1195 = 4.89 "  
 " " " " 1164 and 1200 = 5.92 "

NAMAKAN LAKE RESERVOIR  
Total Areas  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevations	1110	1115	1120	1125	1130
Total.....	84.00	93.35	104.37	120.12	134.06
Canada.....	24.39	26.73	29.50	32.73	35.71
United States.....	59.62	66.62	74.87	87.39	98.35

Capacity of proposed reservoir between elevations 1110 and 1115 = 12.36 B.C.F.  
 " " " " " 1110 and 1120 = 26.15 "  
 " " " " " 1110 and 1125 = 41.79 "  
 " " " " " 1110 and 1130 = 59.50 "

NAMAKAN LAKE RESERVOIR  
Little Vermilion Lake Section  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevation	1110	1115	1120	1125	1130
Total.....	1.52	2.07	2.51	3.22	3.83
Canada.....	0.92	1.20	1.49	1.84	2.21
United States.....	0.60	0.87	1.02	1.38	1.62

Capacity of Little Vermilion Lake between elevations 1110 and 1115 = 0.25 B.C.F.  
 " " " " " 1110 and 1120 = 0.57 "  
 " " " " " 1110 and 1125 = 0.97 "  
 " " " " " 1110 and 1130 = 1.46 "

NAMAKAN LAKE RESERVOIR  
Sand Point Lake Section  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevation	1110	1115	1120	1125	1130
Total.....	12.37	13.81	15.48	17.07	18.69
Canada.....	5.70	6.40	7.33	8.21	8.95
United States.....	6.67	7.41	8.15	8.86	9.74

Capacity of Sand Point lake between elevations 1110 and 1115 = 1.82 B.C.F.  
 " " " " " 1110 and 1120 = 3.87 "  
 " " " " " 1110 and 1125 = 6.13 "  
 " " " " " 1110 and 1130 = 8.63 "

NAMAKAN LAKE RESERVOIR  
Crane Lake Section  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevations	1110	1115	1120	1125	1130
Total.....	4.08	4.72	5.39	7.22	8.20
Canada.....	4.08	4.72	5.39	7.22	8.20
United States.....	4.08	4.72	5.39	7.22	8.20

Capacity of Crane lake between elevations 1110 and 1115 = 0.62 B.C.F.  
 " " " " " 1110 and 1120 = 1.32 "  
 " " " " " 1110 and 1125 = 2.20 "  
 " " " " " 1110 and 1130 = 3.27 "

NAMAKAN LAKE RESERVOIR  
Namakan Lake Section  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevation	1110	1115	1120	1125	1130
Total.....	33.68	36.90	39.73	43.80	48.01
Canada.....	17.76	19.13	20.68	22.68	24.55
United States.....	15.92	17.77	19.05	21.12	23.46

Capacity of Namakan lake between elevations 1110 and 1115 = 4.92 B.C.F.  
 " " " " " 1110 and 1120 = 10.26 "  
 " " " " " 1110 and 1125 = 16.09 "  
 " " " " " 1110 and 1130 = 22.48 "

## REPORT OF ENGINEERS

**NAMAKAN LAKE RESERVOIR**  
Kabetogama Lake Section  
AREAS IN SQUARE MILES AT ELEVATIONS LISTED

Elevation	1110	1115	1120	1125	1130
	Total.....	32-35	35-85	41-26	48-81
Canada.....					
United States.....	32-35	35-85	41-26	48-81	55-33

Capacity of Kabetogama lake between elevations 1110 and 1115 = 4-75 B.C.F.  
 " " " " 1110 and 1120 = 10-13 "  
 " " " " 1110 and 1125 = 16-40 "  
 " " " " 1110 and 1130 = 23-66 "

**NAMAKAN LAKE RESERVOIR AREA**  
(Square miles)

Sheet Number	Can.	U.S.	Can.	U.S.	Can.	U.S.	Can.	U.S.	Can.	U.S.
	1110	1110	1115	1115	1120	1120	1125	1125	1130	1130
31.....	3-74	0-45	4-46	0-52	5-41	0-60	6-43	0-69	7-39	0-79
32.....	5-28	4-03	5-82	4-42	6-44	4-84	6-99	5-10	7-45	5-47
33.....	0-98	4-99	1-09	5-62	1-20	6-12	1-37	7-03	1-64	7-62
34.....	0-09		0-27	0-10	0-45	0-18	0-64	0-35	0-74	0-49
35.....		0-07		0-28		0-54		1-68		2-21
36.....		1-92		2-22		2-54		2-90		3-38
37.....	11-12	6-50	11-55	7-11	12-22	7-38	13-13	7-99	13-95	8-73
38.....	0-02	0-52	0-02	0-58	0-02	0-69	0-02	0-81	0-02	1-04
39.....	3-15	9-77	3-52	10-99	3-76	11-84	4-15	13-05	4-52	14-07
40.....		0-32		0-51		0-81		1-85		2-96
41.....		0-05		0-35		0-79		2-33		3-39
42.....		14-57		16-12		17-87		19-14		21-40
43.....		4-56		5-14		5-75		7-25		8-20
44.....		11-87		12-66		14-92		17-19		18-60
Totals.....	24-38	59-62	26-73	66-62	29-50	74-87	32-73	87-39	35-71	98-35
	84-00		93-35		104-37		120-12		134-06	

Lake	Can.	U.S.	Can.	U.S.	Can.	U.S.	Can.	U.S.	Can.	U.S.
	1110	1110	1115	1115	1120	1120	1125	1125	1130	1130
Vermilion.....	0-92	0-60	1-20	0-87	1-49	1-02	1-84	1-38	2-21	1-62
Sand Point.....	5-70	6-67	6-40	7-41	7-33	8-15	8-21	8-86	8-95	9-74
Crane.....		4-08		4-72		5-39		7-22		8-20
Namakan.....	17-76	15-92	19-13	17-77	20-68	19-05	22-68	21-12	24-55	23-46
Kabetogama.....		32-35		35-85		41-26		48-81		55-33
Total in Canada.....	24-38		26-73		29-50		32-73		35-71	
Total in United States.....		59-62		66-62		74-87		87-39		98-35
Total, Canada and United States	84-00		93-35		104-37		120-12		134-06	

## FLOWAGE TABLE

PARTIAL DATA FOR VARIOUS BOUNDARY LAKES NEAR UPPER PORTION OF WATERSHED  
LAND AREAS SUBJECT TO FLOWAGE AT LEVELS INDICATED

Lake	Contour interval	Land area
Northern Light.....	1441 to 1450	5,781-5 acres
Mariboef, Gneiss, Round, and Granite Bay.....	1441 to 1450	498-2
Saganaga.....	1431 to 1450	6,188-5
Basswood*.....	1301 to 1320	11,702-2

\*Basswood area includes Basswood River to Wheelbarrow Portage.

PRELIMINARY DATA FOR VARIOUS BOUNDARY LAKES NEAR LOWER  
PORTION OF WATERSHED

LAND AREAS SUBJECT TO FLOWAGE AT LEVELS INDICATED

Lake	Contour interval	Land area
Crooked.....	1249 to 1270	7,680-0 acres
Iron.....	1219 to 1240	1,504-0
La Croix.....	1183 to 1200	14,873-6
Loon.....	1164 to 1200	2,476-8
Namakan Reservoir.....	1110 to 1130	32,038-4
<i>Including—</i> Little Vermilion, Sand Point, Crane, Namakan, Kabetogama.		

RAINY LAKE INVESTIGATION

METEOROLOGICAL DATA

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY PRECIPITATION

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1916

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Port Arthur.....	1.95	0.08	1.32	3.15	3.47	3.03	2.41	5.54	5.11	2.40	0.13	0.76	20.4
Savanne.....	2.50	.....	2.90	2.38	3.59	1.94	2.80	3.10	2.63	2.00	0.20	4.70	29.6
Ignace.....	5.80	.....	2.43	4.28	4.24	3.39	5.06	2.80	7.36	4.52	0.30	1.10	41.4
Mine Centre.....	2.70	.....	1.92	3.76	4.25	3.00	0.99	5.38	4.13	2.40	0.27	1.65	.....
Duluth.....	3.48	0.36	2.48	3.27	3.57	5.81	1.19	3.37	4.25	1.13	0.09	0.38	29.4
Virginia.....	2.31	0.33	1.33	3.48	2.79	5.63	2.07	3.77	4.28	1.62	0.08	0.70	28.4
Winton.....	3.80	0.40	3.33	2.80	2.06	4.42	1.84	5.50	8.32	2.54	.....	0.67	.....
International Falls.....	2.21	0.17	1.99	3.30	3.77	3.35	2.61	4.46	.....	.....	.....	.....	.....
Fort Frances.....	2.21	0.17	1.99	3.30	3.82	3.35	2.19	4.06	5.87	2.58	0.20	2.20	32.5
Atikokan.....	.....	.....	.....	.....	.....	.....	.....	.....	4.50	1.83	.....	.....	.....
Little Pork.....	1.80	0.25	2.21	2.58	3.09	3.37	0.83	.....	.....	2.67	.....	.....	.....
Rainy River.....	.....	.....	.....	1.57	2.99	.....	.....	.....	.....	.....	.....	2.00	.....
Poekagama Falls.....	1.94	0.35	1.49	2.99	3.68	4.45	2.37	4.23	2.35	1.10	T	0.40	25.4
Winnibigoshish.....	1.72	0.37	1.56	2.61	3.17	4.59	2.39	8.89	1.78	1.10	0.02	0.47	28.7
Baudette.....	1.16	0.30	1.62	2.67	1.62	2.35	1.00	5.09	3.23	2.97	0.10	2.00	24.1
Dryden.....	2.70	0.18	0.70	2.22	3.83	2.11	3.52	2.83	5.88	7.00	0.60	1.48	27.5
Warroad.....	1.34	0.06	2.05	1.78	2.42	2.32	4.30	2.30	1.32	2.35	0.09	2.12	22.5
Hallock.....	1.95	0.97	1.80	1.12	2.28	4.77	1.70	2.32	1.17	2.04	T	1.25	21.4
Roseau.....	2.00	0.10	1.86	1.39	2.52	2.62	2.79	2.76	1.42	1.28	0.02	1.74	20.5
Pembina.....	3.00	0.80	2.52	0.32	0.58	3.50	1.96	2.25	1.22	2.06	.....	2.80	21.0
Kenora.....	3.00	0.10	1.05	.....	3.18	3.88	6.23	3.69	3.28	2.31	.....	.....	.....
Keewatin.....	2.97	0.22	1.54	1.24	2.68	3.24	5.03	3.16	3.29	2.88	0.61	2.20	29.1
Indian Bay.....	1.78	0.30	1.23	0.98	2.39	2.36	4.04	3.89	2.29	2.63	0.13	2.40	24.4
Whitefish Bay.....	2.13	0.05	1.58	.....	3.32	2.12	3.37	2.55	2.00	3.85	0.30	2.10	.....
Winnipeg.....	3.36	0.25	2.13	0.30	2.47	4.12	2.84	2.35	2.03	2.32	0.32	1.70	24.2

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	3.00	0.20	2.30	3.30	3.60	3.30	2.11	4.52	5.28	2.59	0.20	1.54	31.0
Lower Rainy.....	2.00	0.30	1.90	2.70	2.80	3.80	1.58	4.87	4.27	2.25	0.10	1.40	28.0
Lake of the Woods.....	2.00	0.20	1.60	1.80	2.70	2.90	3.58	3.40	2.54	3.20	0.20	2.16	26.3

1917

Port Arthur.....	0.33	0.78	0.99	0.68	1.42	1.17	1.45	2.22	1.78	2.71	0.37	1.03	14.9
Savanne.....	1.10	1.50	1.20	1.06	1.07	2.47	2.22	4.47	0.93	2.88	0.40	1.30	20.6
Ignace.....	2.50	2.40	0.18	0.86	0.50	1.57	3.61	5.05	1.12	4.73	0.76	1.50	24.8
Mine Centre.....	0.70	1.47	1.22	0.69	0.05	2.34	2.01	3.99	1.22	4.95	0.47	1.50	20.6
Duluth.....	0.80	0.81	4.97	1.39	0.86	1.93	4.29	2.04	2.15	2.53	0.09	1.07	23.2
Virginia.....	0.20	0.95	1.50	1.59	0.25	2.64	2.38	3.92	1.02	2.93	0.16	1.34	18.9
Winton.....	0.15	1.70	2.30	1.26	0.34	5.58	2.12	6.57	2.11	4.09	0.40	1.22	27.8
International Falls.....	.....	1.12	0.56	0.68	0.07	.....	.....	3.42	1.39	2.99	0.39	0.55	.....
Fort Frances.....	0.40	2.15	0.79	0.71	0.03	2.14	1.79	3.93	1.34	3.66	0.34	0.88	18.2
Atikokan.....	.....	2.09	.....	0.78	.....	.....	1.28	1.84	1.84	1.94	.....	.....	.....
Little Pork.....	.....	.....	0.30	.....	.....	.....	.....	1.65	1.18	2.90	.....	.....	.....
Rainy River.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Poekagama Falls.....	0.21	0.62	0.90	1.60	0.20	1.44	2.66	2.69	1.49	2.66	0.15	0.52	15.1
Winnibigoshish.....	0.24	0.80	0.73	0.98	0.01	1.76	1.65	3.39	1.26	2.17	0.14	0.96	14.1
Baudette.....	0.18	0.79	0.31	0.80	0.16	1.82	1.57	.....	1.12	3.09	0.18	0.62	.....
Dryden.....	1.13	0.75	1.41	0.94	.....	1.85	3.94	3.62	1.53	3.64	0.52	.....	.....
Warroad.....	0.16	0.79	0.19	0.58	0.07	2.10	3.66	1.95	1.13	2.06	0.19	0.41	13.3
Hallock.....	0.45	1.07	0.07	0.73	0.41	2.33	3.07	1.19	1.02	1.08	0.50	0.40	12.3
Roseau.....	0.08	1.22	0.17	0.76	0.02	2.92	2.41	2.00	0.71	1.29	0.10	0.87	12.6
Pembina.....	0.70	0.80	0.57	0.24	0.08	3.56	2.64	1.10	0.30	0.48	0.38	0.10	11.0
Kenora.....	1.45	1.60	0.70	0.10	0.05	1.87	4.20	3.02	1.90	.....	.....	.....	.....
Keewatin.....	2.05	1.70	1.18	0.63	0.10	2.27	4.34	3.30	1.25	4.45	0.57	1.46	23.3
Indian Bay.....	0.45	1.45	0.25	0.55	.....	2.22	4.18	2.39	1.33	3.34	0.26	0.86	.....
Whitefish Bay.....	0.80	1.50	0.88	2.01	.....	2.32	3.41	2.66	1.48	3.20	1.94	0.84	.....
Winnipeg.....	1.10	0.88	0.33	0.22	0.03	2.13	3.27	1.70	1.93	1.37	0.22	0.59	13.8

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0.70	1.72	1.57	0.94	0.36	2.51	2.15	4.69	1.57	3.58	0.48	1.24	21.5
Lower Rainy.....	0.25	1.21	0.75	1.02	0.11	1.93	1.93	3.12	1.41	2.86	0.27	0.79	15.7
Lake of the Woods.....	0.79	1.29	0.70	1.13	0.06	2.15	3.44	2.61	1.32	2.98	0.89	0.82	18.2

## LAKE OF THE WOODS WATERSHED—MEAN MONTHLY PRECIPITATION—Continued

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1918

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Port Arthur.....	0.34	0.68	0.33	1.30	3.49	1.65	1.77	2.86	2.42	2.51	1.68	1.21	20.2
Savanne.....	0.70	1.80	.....	1.26	3.01	2.74	2.85	1.81	1.88	4.70	1.52	2.30	.....
Ignace.....	1.90	1.60	0.50	2.45	3.88	2.35	3.71	2.95	1.87	5.32	2.12	4.40	33.1
Mine Centre.....	0.91	1.25	0.30	1.93	2.39	2.42	1.96	4.20	1.01	3.70	2.17	2.36	24.6
Duluth.....	0.94	0.28	0.50	2.02	4.07	0.84	1.23	2.32	1.41	2.18	1.94	2.03	19.8
Virginia.....	0.73	0.46	0.17	1.58	4.12	2.03	1.36	2.81	0.87	2.69	1.51	1.09	19.4
Winton.....	0.90	1.15	0.05	1.91	4.20	1.31	2.30	2.39	1.18	2.90	1.01	3.20	22.5
International Falls.....	0.62	0.76	T	1.82	1.49	.....	2.30	2.57	0.74	3.09	1.39	1.18	.....
Fort Frances.....	1.14	1.01	0.09	2.08	2.18	1.74	2.41	2.59	0.55	3.31	1.54	1.35	20.0
Atikokan.....	.....	.....	.....	.....	.....	2.09	1.44	2.98	1.41	4.03	1.61	2.03	.....
Little Fork.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rainy River.....	0.55	0.55	.....	1.26	2.21	.....	3.56	2.91	0.92	2.49	1.49	0.60	.....
Pokegama Falls.....	0.33	0.16	0.10	2.51	2.83	0.78	3.74	4.09	1.10	2.42	1.97	1.28	21.3
Winnibigoshish.....	0.49	0.35	0.16	2.87	2.85	0.64	1.92	3.86	0.66	1.78	1.56	1.34	18.5
Baudette.....	0.63	0.62	0.17	1.26	2.10	2.54	.....	6.69	0.53	3.42	1.19	1.00	.....
Red Lake.....	0.69	0.34	0.10	2.14	4.77	1.95	4.93	4.61	1.07	1.29	1.85	1.32	25.1
Dryden.....	1.55	0.85	0.53	1.02	1.71	2.04	4.30	1.62	0.58	3.31	2.10	1.10	20.7
Warroad.....	0.57	0.47	0.24	1.06	1.86	4.06	2.80	4.50	0.61	3.47	1.22	0.83	21.7
Hallock.....	0.37	0.30	0.20	1.60	1.05	2.00	3.88	2.01	0.87	0.75	1.10	0.80	14.9
Roseau.....	1.02	0.32	0.17	1.01	2.13	3.22	1.47	2.97	0.39	2.61	0.86	0.87	17.0
Pembina.....	0.35	0.62	0.05	.....	0.30	3.92	2.68	1.74	.....	.....	0.81	0.15	.....
Kenora.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keewatin.....	2.40	1.30	1.25	1.21	2.61	3.25	3.43	3.68	1.21	5.00	2.75	1.72	29.8
Indian Bay.....	0.88	0.36	1.00	0.80	1.71	2.81	1.89	3.04	0.82	1.50	1.71	1.45	18.0
Whitefish Bay.....	1.20	0.71	0.45	2.14	.....	3.61	2.58	2.10	0.53	0.40	0.84	.....	.....
Winnipeg.....	0.81	0.59	0.91	1.32	0.81	3.74	1.99	3.18	0.62	1.09	3.03	1.31	19.4

## AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0.93	1.21	0.66	1.46	3.09	1.99	2.24	2.92	1.25	3.56	1.62	2.41	23.3
Lower Rainy.....	0.68	0.60	0.41	1.77	2.80	1.88	2.88	3.64	0.76	2.92	1.60	1.22	21.2
Lake of the Woods.....	1.10	0.66	0.14	1.73	2.11	3.28	2.67	3.30	0.70	2.86	1.33	1.31	21.2
Average for Watershed.....	0.91	0.94	0.41	1.71	2.80	2.25	2.49	3.17	1.10	3.25	1.55	1.88	.....

1919

Port Arthur.....	0.26	0.85	1.32	0.72	0.83	1.18	2.58	2.72	3.00	1.59	2.87	0.22	18.1
Savanne.....	0.80	1.93	0.80	1.09	1.21	1.83	2.31	2.59	3.15	2.72	1.95	0.60	21.0
Ignace.....	0.40	2.10	1.91	1.73	0.95	1.73	7.26	3.12	4.55	2.39	2.00	0.80	28.9
Mine Centre.....	0.22	1.22	1.58	1.18	1.02	2.68	7.23	5.56	3.65	2.96	2.01	0.84	29.9
Duluth.....	0.46	0.94	1.16	1.82	1.72	3.77	2.62	2.99	1.42	2.71	3.86	0.30	23.8
Virginia.....	0.40	0.90	1.19	1.13	1.75	5.29	3.36	5.44	3.55	2.76	2.36	0.49	28.6
Winton.....	0.40	1.30	0.70	0.52	0.74	3.60	4.00	4.71	2.82	1.56	2.70	0.40	23.4
International Falls.....	0.25	0.45	0.98	1.17	1.79	5.10	7.31	4.58	2.35	1.27	3.63	0.67	30.0
Fort Frances.....	0.28	0.95	1.25	1.01	2.04	4.65	7.23	4.53	2.80	2.34	1.92	0.50	29.5
Atikokan.....	0.10	1.19	1.54	1.44	1.08	1.34	4.32	3.51	3.22	1.52	1.95	0.20	21.4
Dryden.....	0.20	1.12	1.26	1.84	0.52	3.08	4.54	6.62	3.87	1.34	1.09	0.96	26.4
Little Fork.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rainy River.....	.....	.....	.....	1.07	1.50	3.76	.....	.....	.....	1.06	1.50	0.20	.....
Pokegama Falls.....	0.30	0.77	0.99	0.93	2.89	5.53	3.73	5.41	1.09	2.27	1.98	0.28	26.2
Winnibigoshish.....	0.27	0.71	0.96	1.33	2.89	5.78	4.38	10.08	1.76	2.36	1.58	0.15	32.3
Baudette.....	0.14	0.45	0.90	0.87	2.00	3.75	7.88	3.57	2.34	1.19	1.61	0.39	25.1
Red Lake.....	0.12	0.48	0.86	0.65	3.58	4.32	7.56	5.09	1.37	1.76	2.44	0.26	28.8
Warroad.....	0.07	0.40	1.12	0.89	2.12	4.96	9.87	2.73	3.09	1.22	1.64	0.18	28.3
Hallock.....	0.15	0.35	1.55	1.15	2.80	1.66	3.07	3.44	1.04	0.82	2.15	0.79	19.0
Roseau.....	0.17	0.57	0.82	1.02	1.65	3.63	9.13	2.25	1.63	0.84	1.50	0.15	23.4
Pembina.....	0.31	0.02	1.98	0.70	1.16	1.42	0.82	2.24	1.00	0.50	1.66	0.20	12.0
Kenora.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keewatin.....	0.43	0.95	1.41	1.31	1.33	4.06	5.72	4.36	4.84	1.71	2.44	0.29	28.9
Indian Bay.....	0.18	0.62	1.07	1.10	1.88	4.56	5.79	3.45	2.90	0.68	0.90	0.48	23.6
Whitefish Bay.....	0.20	0.63	2.16	2.42	2.31	5.01	7.55	1.91	4.01	0.55	0.85	0.40	28.0
Winnipeg.....	0.18	0.45	1.72	1.11	1.91	4.95	3.83	3.15	3.24	1.64	2.28	0.67	25.1

## AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0.31	1.25	1.23	1.11	1.12	2.81	5.07	4.31	3.21	2.14	2.13	0.52	25.2
Lower Rainy.....	0.25	0.81	1.02	1.03	2.35	4.60	6.20	5.42	2.50	2.04	1.86	0.33	28.4
Lake of the Woods.....	0.20	0.64	1.16	1.18	1.94	4.51	7.46	2.88	3.54	1.33	1.70	0.36	26.9
Average for Watershed.....	0.27	1.01	1.16	1.11	1.59	3.60	5.87	4.26	3.12	1.94	1.97	0.44	.....

RAINY LAKE INVESTIGATION

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY PRECIPITATION—Continued

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1920

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Port Arthur.....	0.75	0.10	1.44	1.09	1.36	5.78	3.54	1.76	1.70	1.41	0.56	3.21	22.7
Savanne.....	1.30	0.50	1.72	1.00	3.06	3.22	3.83	1.17	3.93	1.21	0.65	1.65	23.2
Ignace.....	1.70	1.30	2.02	1.74	3.44	4.41	5.35	2.27	2.06	1.93	1.07	2.70	30.0
Mine Centre.....	1.31	0.75	1.25	1.56	3.09	2.34	2.45	1.90	3.62	1.27	0.88	1.40	21.8
Duluth.....	1.13	0.45	2.28	1.41	4.67	5.66	4.82	1.44	1.31	4.10	1.40	1.07	29.7
Virginia.....	0.80	0.28	0.98	1.79	2.00	6.36	5.11	1.43	2.17	2.26	1.03	1.21	25.4
Winton.....	0.68	0.89	0.10										
International Falls.....	0.76	1.60		0.10	4.11	2.45	3.37	0.63	2.22	1.14	0.42	1.29	
Fort Frances.....	1.00	0.60	1.22	1.03	3.11	3.03	4.16	1.82	2.73	0.71	0.68	1.85	21.9
Atikokan.....	1.60	0.70	1.08	1.34	2.75	4.98	4.51	1.47	3.25	2.36	0.92	1.75	26.7
Dryden.....	1.33	1.60	2.20	0.60	2.32	1.71	3.34	3.13	3.27	1.20	0.42	1.15	22.3
Little Fork.....													
Rainy River.....	0.80	0.50	0.30	0.50	2.92		1.46	1.68	4.30	1.32	0.20	1.00	
Pokegama Falls.....	0.83	0.40	0.84	0.66	2.80	4.50	3.98	1.67	2.44	1.37	0.54	0.73	20.8
Winnibigoshish.....	0.61	0.27	0.76	0.73	4.72	3.74	5.92	3.48	2.72	0.81	0.47	1.08	25.3
Baudette.....	0.84	0.37	0.61	0.64	2.98	2.16	1.58	1.87	4.12	1.14	0.60	0.82	18.7
Red Lake.....	0.92	1.01	0.79	0.97	1.16	3.23	2.12	1.08	2.21	1.08	1.12	1.06	16.8
Warroad.....	1.42	0.29	0.50	0.72	2.63	1.19	0.58	1.72	3.30	1.24	0.64	0.82	15.1
Hallock.....	0.86	0.51	0.40	0.40	2.37	0.74	2.75	1.17	4.78	0.97	0.74	0.77	16.5
Roseau.....	1.50	0.62	0.10	0.35	3.05	1.54	1.45	2.66	2.82	1.48	1.22	0.76	17.6
Pembina.....													
Kenora.....													
Keewatin.....	0.98	0.74	1.91	1.13	4.12	1.62	1.00	2.52	6.86	1.18	4.45	1.63	28.1
Indian Bay.....	1.05	0.75	1.17	0.74	3.49	1.54	0.15	2.22	3.28	1.10	0.76	1.20	17.5
Whitefish Bay.....	1.43	0.33	1.79		4.89	0.74	0.46	2.62	3.08	0.78	1.55	2.01	
Winnipeg.....	1.54	0.85	1.47	5.07	1.51	3.40	0.76	1.70	3.33	0.21	1.50	0.78	22.1

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	1.19	0.81	1.05	1.20	2.81	4.02	4.05	1.65	3.12	1.74	0.87	1.63	24.1
Lower Rainy.....	0.84	0.59	0.85	0.95	3.29	4.32	3.65	2.84	3.06	1.18	0.68	1.27	23.5
Lake of the Woods.....	1.24	0.47	1.30	0.83	3.86	1.43	0.66	2.28	3.13	1.03	1.45	1.46	19.1
Average for Watershed.....	1.12	0.68	1.06	1.06	3.15	3.52	3.21	2.07	3.11	1.45	0.96	1.51	22.9

1921

Atikokan.....	0.75	0.93	1.38	2.28	2.11	1.40	4.41	1.61	4.52	1.57	1.10	0.75	22.8
Baudette.....	0.97	0.70	0.60	1.60	2.01	1.13	4.75	1.40	3.25	0.66	0.92	0.53	18.5
Dryden.....	0.80	1.40	1.17	1.67	2.19	0.48	4.00	2.75	5.32	0.90	1.10	1.35	23.1
Fort Frances.....	1.48	1.21	1.29	1.59	1.92	1.38	6.23	1.93	4.14	0.71	1.30	0.65	23.8
Ignace.....	0.30	1.90	1.40	2.18	2.69	2.18	7.49	4.42	5.13	1.72	2.65	1.40	33.5
Indian Bay.....	0.70	2.00	1.18	2.25	1.30	2.21	8.22	2.94	3.49	0.88	0.93	0.33	26.4
International Falls.....	1.60	0.90	1.40	0.85	1.86	0.75	5.83	1.54	4.04	0.55	0.80	0.50	20.6
Keewatin.....	0.88	2.50	1.80	2.62	1.59	3.03	7.07	3.00	3.60	0.82	1.00	0.86	28.8
Mine Centre.....	0.93	1.62	1.69	1.47	2.22	2.24	5.00	3.89	4.54	1.03	2.06	1.09	27.8
North Lake.....						1.19	6.80	1.39	2.85	1.25	0.44	0.10	
Pokegama Falls.....	0.31	0.32	1.20	1.33	5.11	4.50	2.62	1.33	2.89	0.29	0.22	0.73	20.9
Rainy River.....	1.40	1.50	0.35	1.44	1.32	1.05	2.54	1.11	3.67		1.60	0.75	
Red Lake.....	0.44	0.06	1.07	0.60	1.21	4.87	3.20	1.76	3.70		0.64	0.82	18.4
Savanne.....	0.60	0.73	1.05	2.61	2.64	4.30	6.39	1.92	3.68	1.38	1.45	1.50	28.3
Virginia.....	0.73	0.97	1.24	1.46	3.10	2.53	4.71	1.14	3.61	0.20	0.31	1.19	21.2
Warroad.....	0.52	1.02	0.78	2.32	1.20	1.60	5.68	2.01	4.14	0.30	1.08	0.30	21.0
Whitefish Bay.....	0.78	1.30	1.30	1.64	0.63	0.88	3.88	2.98	4.46	0.50	0.73	0.63	19.7
Winnibigoshish.....	0.38	0.58	1.36	2.40	6.31	3.36	3.92	1.59	2.52	0.39	0.35	0.82	24.0
Winton.....													
Kettle Falls.....						1.63	5.91	2.89	4.12	1.01			
Grand Rapids.....		0.15	0.87	2.01	4.92	5.25	3.56	1.81	3.55	0.38	0.61	1.31	

NOTE.—Mean of Pokegama Falls and Grand Rapids used.  
Mean of Rainy River and Baudette used.

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0.83	1.16	1.38	1.92	2.36	1.90	5.53	2.26	4.10	1.12	1.32	0.90	24.8
Lower Rainy.....	0.99	0.84	1.04	1.71	2.94	2.10	4.91	1.59	3.51	0.52	0.90	0.78	21.8
Lake of the Woods.....	0.78	1.44	1.16	2.17	1.11	1.53	5.80	2.61	4.01	0.60	0.93	0.55	22.7
Average for Watershed.....	0.86	1.15	1.25	1.92	2.22	1.87	5.44	2.18	3.94	0.86	1.13	0.79	



REPORT OF ENGINEERS

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY PRECIPITATION—Continued

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1922

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Atikokan.....	0-60	0-59	1-15	1-30	1-54	3-19	3-17	2-55	2-01	0-83	2-13	1-83	20-9
Baudette.....	0-17	0-75	1-85	1-04	2-90	2-19	4-59	3-57	1-91	0-77	2-33	1-21	23-3
Dryden.....	0-83	1-40	2-00	1-10	1-19	2-78	6-93	2-93	2-08	1-24	0-99	2-38	25-9
Fort Frances.....	0-90	1-05	2-07	2-63	3-65	3-68	2-57	2-47	1-72	1-21	2-19	2-28	26-4
Ignace.....	0-80	1-10	1-40	3-41	1-60	2-82	5-63	3-55	3-95	1-22	3-49	3-80	32-8
Indian Bay.....	0-33	0-88	1-13	0-48	4-86	2-48	3-32	2-78	3-15	0-30	1-40	1-50	22-6
International Falls.....	0-30	1-10	1-00	.....	2-75	3-49	2-21	2-73	1-49	1-00	2-20	1-80	.....
Keewatin.....	0-60	1-95	2-15	0-96	6-42	3-33	3-80	3-68	4-41	1-11	2-37	1-95	32-7
Mine Centre.....	0-92	0-99	1-28	2-60	2-43	2-63	4-70	3-65	2-04	1-15	3-15	2-50	28-0
North Lake.....	0-60	.....	0-24	2-07	1-82	3-61	2-65	3-09	2-22	0-21	1-07	.....	.....
Pokegama Falls.....	0-41	1-30	1-20	2-13	2-82	3-17	0-95	1-28	2-84	1-88	3-59	0-57	22-1
Rainy River.....	.....	.....	.....	.....	.....	2-72	5-67	2-56	1-66	1-95	0-88	1-75	.....
Red Lake.....	0-57	1-47	0-61	1-17	3-13	.....	.....	2-57	3-68	0-37	2-13	1-25	.....
Savanne.....	0-58	1-60	1-90	1-69	1-82	4-50	3-77	2-02	1-86	0-93	1-48	2-08	24-2
Virginia.....	0-37	1-40	1-27	1-73	3-53	3-06	2-69	2-87	2-26	0-72	2-33	1-12	23-4
Warroad.....	0-55	0-94	1-38	0-73	4-90	2-13	3-83	1-80	3-32	0-54	2-35	1-41	23-9
Whitefish Bay.....	0-50	0-98	1-33	1-22	2-68	2-51	9-51	1-37	1-63	0-88	.....	2-65	.....
Winnipegoshish.....	0-52	1-05	1-17	2-53	2-58	3-84	1-12	1-48	3-05	1-79	3-13	0-72	23-0
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	0-35	3-72	0-97	1-22	2-66	4-20	0-92	1-89	3-28	0-95	4-68	1-42	26-3
Kettle Falls.....	0-60	1-00	1-10	2-68	1-85	6-27	5-14	4-36	1-44	.....	.....	.....	.....
Grygla.....	.....	.....	.....	.....	.....	.....	2-90	1-42	3-11	0-21	1-80	2-38	.....
Norden.....	.....	.....	.....	.....	.....	.....	1-63	1-08	3-52	0-84	2-54	3-10	.....

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0-66	1-02	1-52	2-08	2-18	3-73	3-82	2-83	2-05	0-89	2-25	1-85	24-9
Lower Rainy.....	0-50	1-11	1-61	1-92	3-16	3-25	2-37	2-44	2-47	1-12	2-52	1-41	23-9
Lake of the Woods.....	0-49	1-05	1-47	0-94	3-93	2-53	6-04	2-26	2-58	0-73	2-05	1-97	26-0
Average for Watershed.....	0-59	1-05	1-53	1-79	2-80	3-35	3-96	2-61	2-27	0-91	2-27	1-77	24-9

1923

Atikokan.....	1-20	0-45	1-43	1-69	1-31	3-05	7-68	3-60	2-42	0-98	0-70	0-71	25-2
Baudette.....	0-82	0-21	0-67	1-26	0-26	2-22	3-06	.....	2-19	0-52	0-53	0-36	.....
Dryden.....	0-85	1-33	1-82	2-15	.....	2-52	4-63	3-54	2-49	2-00	1-02	0-80	.....
Fort Frances.....	1-20	0-90	1-19	1-96	0-81	3-32	3-80	3-53	1-69	1-50	0-67	0-50	21-0
Ignace.....	0-60	0-45	2-20	1-83	2-26	2-62	6-83	5-81	1-93	2-13	0-58	1-60	28-8
Indian Bay.....	1-15	0-98	1-00	1-07	0-52	3-69	4-03	2-15	2-33	0-80	0-70	0-25	18-7
International Falls.....	1-50	0-80	0-70	0-87	1-26	2-85	3-00	.....	.....	.....	0-25	.....	.....
Keewatin.....	1-61	1-21	3-40	2-51	0-38	3-11	8-11	1-87	2-46	0-96	1-26	0-80	27-7
Mine Centre.....	1-63	1-28	2-13	1-82	0-78	3-63	4-07	5-14	1-11	1-99	0-73	1-04	25-3
North Lake.....	1-35	0-70	1-90	.....	1-66	1-60	3-39	1-78	1-30	0-25	0-90	.....	.....
Pokegama Falls.....	0-71	0-24	0-64	1-29	1-21	3-25	4-35	1-82	0-61	0-79	0-50	0-34	15-8
Rainy River.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red Lake.....	0-74	1-06	0-42	0-21	0-84	4-31	2-91	1-46	2-48	1-01	0-08	0-40	16-4
Savanne.....	0-80	0-45	1-75	1-36	0-76	3-17	4-65	4-99	2-73	1-24	1-09	0-75	23-7
Virginia.....	1-05	0-36	0-92	1-39	1-06	4-65	1-98	2-87	1-42	0-80	0-63	0-67	17-8
Warroad.....	0-70	0-53	1-07	1-70	0-62	3-44	5-67	0-87	2-99	2-16	0-53	0-07	20-3
Whitefish Bay.....	1-35	0-70	2-03	2-61	0-70	3-80	7-24	4-12	1-67	1-78	0-38	0-53	26-9
Winnipegoshish.....	0-88	0-28	0-28	1-76	2-32	5-56	2-88	1-39	0-99	0-82	0-37	0-55	18-1
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	1-12	0-29	0-66	1-84	1-38	3-19	4-18	1-89	0-75	1-11	0-69	1-20	18-3
Grygla.....	.....	0-82	1-79	0-75	1-00	2-30	3-53	.....	.....	.....	.....	.....	.....
Norden.....	1-42	1-74	1-19	1-21	0-92	6-08	.....	.....	.....	.....	.....	.....	.....
Kettle Falls.....	.....	.....	.....	.....	.....	5-83	.....	2-81	.....	.....	.....	.....	.....

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	1-22	0-73	1-64	1-48	1-14	3-52	4-80	3-84	1-77	1-26	0-75	0-80	23-0
Lower Rainy.....	0-98	0-57	0-92	1-57	0-97	4-12	3-16	2-57	1-65	0-96	0-55	0-49	18-5
Lake of the Woods.....	1-12	0-73	1-66	1-78	0-56	3-43	5-92	1-96	2-44	1-42	0-82	0-41	22-2
Average for Watershed.....	1-14	0-69	1-47	1-57	0-97	3-64	4-66	3-12	1-89	1-22	0-72	0-64	21-7

RAINY LAKE INVESTIGATION

17

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY PRECIPITATION—Continued

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1924

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Atikokan.....	1.13	0.23	0.73	4.00	0.95	2.35	3.04	3.96	3.51	1.68	1.03	1.33	23.9
Baudette.....	0.45	0.16	0.90	1.03	1.30	2.60	4.25	3.15	3.12	0.68	0.18	0.44	18.3
Dryden.....	1.40	0.90	0.40	3.47	1.04	2.09	3.64	2.23	1.72	1.15	1.01	0.70	19.8
Fort Frances.....	1.06	0.67	0.88	2.02	1.41	2.38	3.11	3.80	2.98	1.21	0.54	0.63	20.7
Ignace.....	2.70	1.20	0.50	3.66	1.05	3.84	3.78	5.17	3.48	2.10	2.00	1.60	31.0
Indian Bay.....	0.83	0.53	0.40	2.48	1.96	2.64	3.95	0.79	2.05	1.64	1.18	0.90	19.4
International Falls.....	0.91	.....	.....	.....	1.10	.....	.....	.....	.....	.....	.....	0.55	.....
Keewatin.....	1.60	1.15	0.67	4.17	1.90	1.30	4.71	0.95	2.19	0.90	1.60	1.25	22.4
Mine Centre.....	1.56	0.65	1.37	2.63	0.85	3.18	4.50	3.62	3.24	1.41	1.41	1.36	25.8
North Lake.....	1.83	0.60	0.28	1.37	0.82	1.51	2.99	5.45	5.11	1.78	0.72	1.05	23.5
Poekagama Falls.....	0.12	0.43	0.13	1.34	1.60	3.81	3.70	4.12	2.75	2.31	0.39	0.39	21.0
Rainy River.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red Lake.....	0.21	0.14	0.38	2.31	1.85	4.67	2.84	3.60	2.74	1.87	0.39	1.12	22.1
Savanne.....	1.55	0.88	0.73	3.10	0.54	2.63	3.51	3.71	3.79	0.78	1.11	0.45	23.8
Virginia.....	0.60	0.62	0.52	2.35	1.13	4.13	3.98	4.63	3.46	2.04	0.63	0.57	24.7
Warroad.....	0.79	0.07	0.92	3.15	2.40	2.22	3.83	2.67	2.22	1.35	0.21	0.49	20.3
Whitefish Bay.....	0.65	.....	0.65	2.12	1.95	1.30	3.19	1.54	1.51	0.53	1.29	0.78	.....
Winnipegoshish.....	0.20	0.30	0.23	2.10	2.07	2.02	.....	3.31	2.94	0.77	0.61	0.45	.....
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	0.43	0.51	0.36	2.79	2.03	3.11	4.29	3.81	3.23	2.22	0.38	0.11	23.3
Grygla.....	1.14	.....	.....	0.90	2.04	2.50	1.20	2.05	1.75	.....	.....	.....	.....
Kettle Falls.....	.....	.....	.....	.....	.....	.....	3.51	4.30	3.65	2.43	.....	.....	.....

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	1.36	0.59	0.78	2.80	0.96	2.75	3.58	4.12	3.54	1.68	1.02	1.05	24.2
Lower Rainy.....	0.59	0.42	0.67	1.83	1.50	2.76	3.46	3.64	3.08	1.19	0.46	0.53	20.1
Lake of the Woods.....	0.81	0.59	0.68	2.87	1.79	1.88	4.03	1.73	2.01	0.96	0.97	0.76	19.0
Average for Watershed.....	1.06	0.55	0.73	2.59	1.27	2.36	3.65	3.48	3.09	1.41	0.88	0.86	21.9

1925

Atikokan.....	1.75	0.95	1.20	0.98	1.24	5.28	2.76	1.81	3.19	1.27	0.83	1.00	22.2
Baudette.....	0.26	0.49	1.14	3.58	1.71	7.58	1.07	1.86	3.02	0.86	0.49	0.42	22.5
Dryden.....	1.43	1.10	1.80	1.84	0.18	6.26	3.19	2.07	3.44	3.45	0.86	0.95	26.6
Fort Frances.....	0.96	1.19	1.38	3.91	3.03	4.41	1.44	4.79	4.51	2.65	1.50	0.51	20.3
Ignace.....	3.20	3.00	2.60	2.14	2.48	5.69	3.13	5.39	4.41	2.41	1.15	1.40	37.0
Indian Bay.....	2.40	0.60	1.82	1.42	0.77	9.75	1.16	2.25	4.16	1.06	0.15	0.83	26.4
International Falls.....	6.79	.....	0.75	4.53	0.86	.....	.....	.....	4.90	.....	.....	.....	.....
Keewatin.....	2.75	1.20	2.05	2.86	1.48	9.43	2.24	4.02	5.59	1.48	0.99	0.91	34.0
Mine Centre.....	1.94	1.75	2.03	1.99	1.06	4.39	1.96	4.38	3.48	1.33	1.16	1.06	26.5
North Lake.....	1.38	0.50	0.83	0.50	1.61	.....	1.73	2.31	2.64	0.59	0.60	1.53	.....
Poekagama Falls.....	0.25	0.31	0.52	0.77	0.57	3.50	1.59	3.80	4.44	0.60	0.71	0.28	17.3
Rainy River.....	0.15	0.50	0.86	0.89	.....	7.76	0.52	7.76	.....	.....	0.38	.....	.....
Red Lake.....	0.28	0.65	0.26	2.37	2.33	6.50	1.64	4.84	.....	1.21	0.52	0.36	.....
Savanne.....	1.00	0.58	1.73	1.03	1.03	2.55	2.55	3.33	2.36	2.10	0.94	1.00	20.3
Virginia.....	0.29	0.89	0.54	0.96	0.30	4.10	2.47	4.67	5.40	0.93	0.82	0.85	23.3
Warroad.....	0.42	0.20	0.86	2.00	0.57	8.96	1.16	1.55	5.32	1.06	0.63	0.45	23.2
Whitefish Bay.....	2.35	.....	1.68	2.07	0.16	7.12	1.45	3.27	3.38	3.03	1.07	0.75	.....
Winnipegoshish.....	0.18	0.38	0.68	2.72	0.96	4.57	1.03	4.17	5.73	0.90	1.04	0.39	22.8
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	0.32	0.89	1.10	1.70	0.63	4.11	2.37	3.38	5.46	1.02	0.76	0.46	22.2
Kettle Falls.....	.....	.....	.....	1.75	1.33	4.19	1.32	2.61	4.81	1.65	.....	.....	.....

NOTE.—Mean of Poekagama Falls and Grand Rapids used.

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	1.48	1.17	1.41	1.53	1.32	4.52	2.16	3.47	3.76	1.53	0.97	1.03	24.4
Lower Rainy.....	0.46	0.74	0.99	2.92	1.68	5.38	1.45	3.73	4.46	1.39	0.95	0.49	24.6
Lake of the Woods.....	1.79	0.76	1.54	2.20	0.68	8.14	1.41	2.68	4.10	1.43	0.74	0.70	26.2
Average for Watershed.....	1.31	0.98	1.34	2.00	1.26	5.52	1.83	3.36	4.00	1.47	0.92	0.83	24.8

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY PRECIPITATION—Concluded

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1926

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Atikokan.....	1.38	0.83	1.05	0.56	1.66	5.75	2.16	0.98	5.43	3.85	3.20	1.73	28.6
Baudette.....	0.45	0.51	0.66	0.14	4.66	4.60	3.38	3.68	2.99	3.51	2.13	0.78	27.5
Dryden.....	0.99	0.95	0.97	0.58	1.79	4.49	2.71	2.61	6.65	4.73	3.20	1.35	31.0
Fort Frances.....	1.13	2.05	0.85	0.18	2.25	4.57	2.80	2.57	4.71	3.17	2.58	1.12	28.0
Ignace.....	1.80	3.00	1.20	1.40	1.05	6.03	4.72	2.84	6.59	3.13	5.00	2.10	38.9
Indian Bay.....	0.98	0.88	0.95	0.29	1.67	4.37	2.51	4.24	2.93	2.58	2.35	0.98	24.7
International Falls.....	0.60	1.25	0.85	.....	.....	3.82	2.50	1.39	4.47	2.33	1.85	.....	.....
Keewatin.....	0.82	1.20	0.75	1.00	2.90	3.81	4.25	5.24	4.35	4.11	3.50	0.50	32.4
Mine Centre.....	1.41	1.39	0.94	0.29	2.64	5.02	2.34	1.26	6.67	4.40	3.92	1.42	31.7
North Lake.....	0.85	1.70	1.48	0.70	0.50	2.80	3.92	1.13	3.77	1.72	2.48	1.40	22.5
Pokegama Falls.....	0.61	0.46	0.87	0.03	0.70	2.27	7.11	1.79	3.33	2.57	0.65	0.61	21.0
Rainy River.....	0.85	.....	1.55	0.05	.....	.....	.....	5.18	1.69	.....	2.55	1.45	.....
Red-by.....	1.51	T	1.37	0.13	1.05	5.56	2.53	2.14	5.64	4.02	1.86	0.84	26.7
Savanne.....	1.20	1.35	2.01	1.00	0.56	5.04	4.59	3.67	5.28	2.81	3.43	0.55	31.5
Virginia.....	0.84	0.76	1.21	0.02	2.02	3.59	4.12	3.07	5.75	2.44	2.38	1.15	27.4
Warracod.....	0.33	0.52	0.62	0.08	1.77	5.11	1.87	2.56	1.15	3.44	1.20	0.40	19.1
Whitefish Bay.....	1.25	0.73	0.98	.....	1.25	5.72	3.39	3.20	6.87	2.50	2.63	.....	.....
Winnipegoshish.....	0.69	0.58	1.34	0.03	0.98	2.91	3.65	2.60	5.08	2.03	1.74	0.71	22.3
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	0.40	0.73	1.55	0.05	1.34	2.89	4.66	2.27	3.80	3.81	1.10	0.45	23.1
Kettle Falls.....	.....	.....	.....	.....	.....	6.98	3.00	1.91	5.19	.....	.....	.....	.....

NOTE.—Mean of Pokegama Falls and Grand Rapids used in computations.

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	1.22	1.42	1.17	0.49	1.71	5.03	3.16	1.90	5.56	3.32	3.21	1.38	29.6
Lower Rainy.....	0.78	1.00	0.97	0.11	2.58	4.10	3.46	2.94	3.81	2.97	2.15	0.91	25.8
Lake of the Woods.....	0.72	0.75	0.84	0.45	2.02	4.41	3.10	3.56	4.33	3.02	2.36	0.73	26.3
Average for Watershed.....	1.00	1.17	1.05	0.39	1.99	4.67	3.22	2.51	4.87	3.17	2.77	1.12	27.9

1927

Atikokan.....	0.33	1.05	0.70	2.38	3.02	2.50	3.71	1.44	1.88	2.09	1.25	1.65	22.0
Baudette.....	0.12	0.21	.....	4.16	3.60	2.26	3.73	1.85	3.37	0.55	0.74	.....	.....
Dryden.....	0.23	1.58	1.25	2.26	3.85	3.19	4.65	2.58	2.12	2.16	1.35	0.45	25.7
Fort Frances.....	0.48	0.95	0.93	1.58	3.86	4.20	2.15	2.64	1.63	2.24	0.69	1.22	22.6
Ignace.....	0.40	1.40	1.20	2.73	4.18	2.28	3.12	2.77	3.89	3.01	1.60	1.80	28.4
Indian Bay.....	0.35	0.82	0.60	1.85	5.23	2.25	2.66	3.04	2.38	2.44	1.51	0.70	30.1
International Falls.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Keewatin.....	0.21	1.08	1.20	2.34	6.52	2.05	4.61	2.97	1.89	3.06	0.83	0.75	27.5
Mine Centre.....	0.52	1.13	1.04	3.04	3.25	5.99	5.49	3.59	2.99	2.17	1.65	1.59	32.5
North Lake.....	0.73	1.55	0.88	1.97	2.45	1.45	5.87	1.60	1.42	1.05	1.63	1.93	22.5
Pokegama Falls.....	0.91	0.90	1.01	1.16	2.58	2.93	2.71	4.63	1.30	1.71	1.08	1.22	22.1
Rainy River.....	1.35	1.10	0.25	1.88	4.79	3.64	1.42	3.24	2.38	4.05	1.30	1.10	26.5
Red-by.....	0.48	0.43	1.49	0.92	6.06	4.04	1.86	3.00	0.21	1.06	1.17	1.43	22.2
Savanne.....	0.95	2.00	0.75	2.45	3.88	5.37	3.58	2.37	2.17	2.24	0.88	2.30	28.9
Virginia.....	0.83	1.42	1.06	1.37	2.81	2.23	3.83	3.33	1.31	1.11	1.65	1.35	22.3
Warracod.....	0.21	0.03	0.28	0.91	6.05	3.73	2.13	1.91	1.24	2.21	0.48	0.30	19.5
Whitefish Bay.....	0.15	0.45	0.80	1.88	3.22	2.54	1.94	2.52	2.51	2.99	.....	0.80	.....
Winnipegoshish.....	0.66	0.82	0.94	1.84	4.36	3.91	2.00	5.30	0.74	1.21	1.11	1.24	24.1
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	0.68	1.39	1.13	2.11	3.57	2.17	2.72	4.41	1.17	1.43	1.64	1.08	23.5

NOTE.—Mean of Pokegama Falls and Grand Rapids used in computations.

AVERAGE MONTHLY PRECIPITATION ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0.56	1.28	0.92	2.27	3.21	3.53	4.19	2.84	2.11	1.93	1.37	1.61	25.8
Lower Rainy.....	0.48	0.77	0.77	1.66	3.92	3.58	2.44	3.64	1.42	2.13	0.92	1.10	22.8
Lake of the Woods.....	0.32	0.50	0.72	1.75	4.61	2.78	2.49	2.70	2.10	2.78	0.88	0.67	22.3
Average for Watershed.....	0.49	0.99	0.84	2.02	3.69	3.38	3.40	3.00	1.94	2.16	1.16	1.28	24.4

RAINY LAKE INVESTIGATION

UPPER RAINY WATERSHED—SUMMARY OF MONTHLY PRECIPITATION

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD,

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885.....	0.3	0.4	1.0	2.1	1.5	3.4	3.7	1.8	1.7	0.6	1.3	0.6	18.4
1886.....	1.6	1.7	0.6	1.8	0.8	2.6	1.3	1.0	4.1	2.6	1.8	0.7	20.6
1887.....	0.9	1.3	0.5	1.3	2.5	3.3	4.1	2.1	2.0	2.4	1.5	1.5	23.4
1888.....	1.4	1.0	1.3	1.5	2.5	4.0	2.9	2.4	1.6	2.4	1.8	0.2	23.0
1889.....	2.4	1.5	1.2	1.4	2.2	1.6	3.8	3.2	3.3	1.2	1.4	2.1	25.3
1890.....	2.0	1.3	1.1	1.4	2.2	4.0	3.4	3.1	3.6	2.4	0.6	0.8	26.2
1891.....	1.0	1.7	1.2	2.4	3.0	4.0	4.3	3.1	4.2	1.6	0.8	1.7	29.0
1892.....	0.6	0.7	1.0	2.7	4.4	2.4	3.2	6.0	1.9	0.8	1.3	0.4	25.4
1893.....	1.5	1.7	1.5	2.7	1.9	4.0	4.5	2.6	1.4	1.3	1.0	1.1	25.2
1894.....	1.0	0.4	2.1	4.3	2.8	3.6	1.8	1.3	3.2	4.9	1.5	0.9	27.8
1895.....	0.8	0.6	0.4	2.6	4.1	5.2	3.3	2.4	3.0	1.1	1.7	1.3	26.5
1896.....	0.9	0.9	1.4	2.2	5.3	3.1	3.7	4.0	1.9	2.0	2.0	0.7	28.1
1897.....	1.3	1.2	1.5	0.3	1.6	2.9	7.0	3.9	1.0	1.7	1.1	1.0	25.2
1898.....	0.6	0.8	1.0	0.6	2.4	7.7	6.0	2.2	4.3	2.9	1.5	0.4	30.4
1899.....	1.0	0.5	0.9	1.5	3.0	4.2	3.6	4.3	3.4	2.5	0.5	0.7	26.1
1900.....	1.0	0.3	0.4	0.5	0.7	1.9	3.3	6.7	6.2	3.3	0.7	0.5	25.5
1901.....	0.5	0.3	1.6	1.3	1.2	5.9	4.0	3.0	2.3	2.2	1.2	0.8	24.3
1902.....	0.5	0.2	1.0	1.4	4.6	2.9	2.8	4.0	2.9	2.4	1.7	1.7	26.1
1903.....	1.1	0.8	0.7	1.7	2.7	1.4	3.4	3.4	4.9	3.7	1.3	1.2	26.3
1904.....	0.4	0.9	2.2	0.7	2.1	3.2	4.7	2.5	3.8	1.7	0.5	1.3	24.0
1905.....	0.4	0.4	1.9	2.0	2.6	5.5	6.0	3.0	4.6	2.2	1.9	0.2	30.7
1906.....	0.6	0.3	0.6	1.0	4.2	4.0	2.7	3.4	2.2	1.4	2.8	1.2	24.4
1907.....	1.8	0.6	1.3	1.3	1.4	2.3	3.9	4.4	3.0	1.3	0.7	0.3	22.3
1908.....	0.2	1.4	1.0	2.0	3.8	4.5	2.7	2.7	1.5	1.3	1.0	1.1	23.2
1909.....	1.5	0.6	0.8	1.0	2.0	1.5	4.4	5.5	2.8	2.6	1.8	1.7	26.2
1910.....	0.4	0.6	0.4	2.2	1.3	0.7	3.3	1.3	3.2	2.4	1.2	0.6	17.6
1911.....	0.7	1.1	0.9	0.9	2.6	4.1	3.3	4.5	2.8	1.0	1.4	1.2	24.5
1912.....	0.3	0.3	0.4	2.1	3.6	2.2	3.2	3.1	5.1	1.5	0.3	0.8	22.9
1913.....	0.4	0.6	1.1	1.2	3.8	2.9	5.8	3.5	2.7	2.9	1.0	0.2	26.1
1914.....	1.2	0.3	0.9	1.6	3.0	3.0	3.0	4.4	3.4	1.9	0.6	0.4	23.7
1915.....	0.9	0.9	0.4	1.5	2.1	6.2	1.8	1.5	3.3	2.3	2.5	1.2	24.6
1916.....	3.0	0.2	2.3	3.3	3.6	3.3	2.1	4.5	5.3	2.6	0.2	1.5	31.9
1917.....	0.7	1.7	1.6	0.9	0.4	2.5	2.2	4.7	1.6	3.6	0.5	1.2	21.6
1918.....	0.9	1.2	0.7	1.5	3.1	2.0	2.2	2.9	1.3	3.6	1.6	2.4	23.4
1919.....	0.3	1.3	1.2	1.1	1.1	2.8	5.1	4.3	3.2	2.1	2.1	0.5	25.1
35 year mean.....	1.0	0.9	1.1	1.7	2.6	3.4	3.6	3.3	3.1	2.2	1.3	1.0	25.0
1920.....	1.2	0.8	1.1	1.2	2.8	4.0	4.0	1.7	3.1	1.7	0.9	1.6	24.1
1921.....	0.8	1.2	1.4	1.9	2.4	1.9	5.5	2.3	4.1	1.1	1.3	0.9	24.8
1922.....	0.7	1.0	1.5	2.1	2.2	3.7	3.8	2.8	2.0	0.9	2.3	1.9	24.9
1923.....	1.2	0.7	1.6	1.5	1.1	3.5	4.8	3.8	1.8	1.3	0.8	0.8	22.9
1924.....	1.4	0.6	0.8	2.8	1.0	2.8	3.6	4.1	3.5	1.7	1.0	1.0	24.3
40-year mean.....	1.0	0.9	1.1	1.7	2.5	3.4	3.7	3.3	3.1	2.1	1.3	1.0	24.9
1925.....	1.5	1.2	1.4	1.5	1.3	4.5	2.2	3.5	3.8	1.5	1.0	1.0	24.4
1926.....	1.2	1.4	1.2	0.5	1.7	5.0	3.2	1.9	5.6	3.3	3.2	1.4	29.6
1927.....	0.6	1.3	0.9	2.3	3.2	3.5	4.2	2.8	2.1	1.9	1.4	1.6	25.8

## LOWER RAINY WATERSHED—SUMMARY OF MONTHLY PRECIPITATION

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885.....	0.4	0.3	0.7	2.0	1.6	4.0	3.5	1.5	1.6	0.7	1.1	0.5	17.9
1886.....	1.3	1.0	0.5	3.1	1.7	3.0	2.2	1.2	3.4	1.8	1.8	0.5	21.5
1887.....	0.9	0.8	0.5	1.3	3.1	4.5	4.4	2.1	1.0	1.9	0.6	1.5	22.6
1888.....	1.1	0.3	1.4	1.6	2.2	5.0	3.7	1.1	1.6	1.9	0.9	0.3	21.1
1889.....	1.3	1.3	0.9	1.3	1.3	1.6	3.8	4.2	2.8	0.5	1.2	1.7	21.9
1890.....	1.5	0.9	1.1	1.3	2.1	5.2	3.0	2.7	4.4	2.7	0.5	0.3	25.7
1891.....	0.8	1.7	1.0	1.9	1.8	5.0	4.6	2.7	3.9	1.6	0.8	1.9	27.7
1892.....	0.5	0.6	1.2	2.7	4.5	2.0	2.5	4.4	1.7	0.3	1.1	0.3	21.8
1893.....	1.4	1.4	1.4	3.2	2.4	4.0	4.7	3.2	1.6	1.3	0.9	0.8	26.3
1894.....	0.8	0.4	2.5	4.3	2.7	3.8	1.2	1.8	2.8	3.8	1.0	1.0	26.1
1895.....	0.6	0.4	0.2	2.1	3.9	6.9	3.7	2.5	3.2	0.6	1.4	0.7	26.2
1896.....	0.9	0.5	1.5	3.9	6.4	3.2	2.3	3.3	2.0	2.5	2.4	0.9	29.8
1897.....	2.1	1.9	1.6	0.5	1.5	3.6	7.6	3.0	0.9	1.7	0.8	0.7	25.9
1898.....	0.4	0.7	1.0	0.8	2.6	6.8	5.0	2.2	3.0	2.7	1.1	0.3	26.6
1899.....	0.8	0.5	0.8	1.9	4.1	5.1	4.5	4.7	2.6	2.8	0.5	0.7	29.0
1900.....	0.8	0.4	0.4	0.6	0.7	1.6	3.4	7.3	6.6	3.3	0.8	0.5	26.4
1901.....	0.3	0.3	1.9	1.5	1.0	7.0	3.3	2.6	2.2	2.5	0.8	0.6	24.0
1902.....	0.3	0.4	1.2	1.1	4.9	2.8	3.4	3.8	2.2	1.8	1.5	1.4	24.9
1903.....	0.8	0.7	0.9	2.0	3.7	1.6	2.4	4.0	5.2	3.1	1.1	1.3	26.8
1904.....	0.3	0.9	2.4	0.9	1.6	3.3	4.7	2.0	3.7	1.8	0.4	1.2	23.2
1905.....	0.4	0.2	1.7	1.8	3.9	6.6	6.0	3.8	4.3	2.1	1.8	0.2	32.8
1906.....	0.7	0.2	0.6	1.2	4.2	4.1	2.3	3.1	2.3	1.2	2.7	1.3	23.9
1907.....	1.8	0.4	1.0	1.2	1.6	2.6	3.4	3.8	2.7	1.2	0.6	0.3	20.6
1908.....	0.2	1.2	1.3	1.7	4.6	4.6	2.9	2.3	1.8	1.4	0.8	0.7	23.5
1909.....	1.3	0.5	0.7	1.0	2.2	1.8	4.3	5.5	3.6	3.0	1.6	1.3	26.8
1910.....	0.3	0.5	0.5	1.9	1.8	1.2	3.0	1.3	3.0	1.9	0.9	0.7	17.0
1911.....	0.6	1.0	0.9	0.9	2.9	3.9	3.0	5.0	2.6	0.9	1.3	1.0	24.0
1912.....	0.2	0.3	0.3	1.6	3.0	1.6	3.7	3.3	4.6	1.9	0.3	0.7	20.6
1913.....	0.3	0.6	1.0	1.5	3.3	3.1	6.1	3.4	2.4	2.8	0.7	0.1	25.3
1914.....	1.1	0.4	0.9	1.8	2.8	4.6	2.8	3.7	3.4	2.2	0.6	0.3	24.6
1915.....	0.6	0.8	0.3	1.5	2.9	7.8	2.9	1.2	2.5	2.0	2.2	0.9	25.6
1916.....	2.0	0.3	1.9	2.7	2.8	3.8	1.6	4.9	4.3	2.3	0.1	1.4	28.1
1917.....	0.3	1.2	0.8	1.0	0.1	1.9	1.9	3.1	1.4	2.9	0.3	0.8	15.7
1918.....	0.7	0.6	0.4	1.8	2.8	1.9	2.9	3.6	0.8	2.9	1.6	1.2	21.2
1919.....	0.3	0.8	1.0	1.0	2.4	4.6	6.2	5.4	2.5	2.0	1.9	0.3	28.4
35-year mean.....	0.8	0.7	1.0	1.7	2.7	3.8	3.6	3.3	2.8	2.0	1.1	0.8	24.4
1920.....	0.8	0.6	0.9	1.0	3.3	4.3	3.7	2.8	3.1	1.2	0.7	1.3	23.7
1921.....	1.0	0.8	1.0	1.7	2.9	2.1	4.9	1.6	3.5	0.5	0.9	0.8	21.7
1922.....	0.5	1.1	1.6	1.9	3.2	3.3	2.4	2.4	2.5	1.1	2.5	1.4	23.9
1923.....	1.0	0.6	0.9	1.6	1.0	4.1	3.2	2.6	1.7	1.0	0.6	0.5	18.8
1924.....	0.6	0.4	0.7	1.8	1.5	2.8	3.5	3.6	3.1	1.2	0.5	0.5	20.2
40-year mean.....	0.8	0.7	1.0	1.7	2.7	3.7	3.6	3.2	2.8	1.9	1.1	0.8	24.1
1925.....	0.5	0.7	1.0	2.9	1.7	5.4	1.5	3.7	4.5	1.4	1.0	0.5	24.8
1926.....	0.8	1.0	1.0	0.1	2.6	4.1	3.5	2.9	3.8	3.0	2.2	0.9	25.8
1927.....	0.5	0.8	0.8	1.7	3.9	3.6	2.4	3.6	1.4	2.1	0.9	1.1	22.8

RAINY LAKE INVESTIGATION

LAKE OF THE WOODS (PROPER) WATERSHED—SUMMARY OF MONTHLY PRECIPITATION

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885.....	0.3	0.3	0.8	2.1	1.8	3.1	3.3	1.7	0.9	0.7	1.0	0.8	16.8
1886.....	1.1	0.9	0.4	2.0	0.5	2.1	2.1	0.9	2.6	1.2	1.5	0.3	15.6
1887.....	0.7	0.9	0.5	1.3	2.8	3.8	3.6	1.7	0.8	1.1	0.5	0.3	18.5
1888.....	1.0	0.3	1.0	1.1	1.7	4.0	3.3	1.1	1.4	1.6	0.7	0.4	17.6
1889.....	1.2	1.2	0.6	0.6	1.7	1.2	3.2	2.3	3.5	0.9	1.6	2.0	20.0
1890.....	2.5	1.0	1.3	1.5	2.1	3.9	4.2	3.0	3.8	2.8	0.4	0.4	26.9
1891.....	0.8	1.6	1.0	2.2	2.0	5.5	3.6	3.2	3.3	1.6	0.9	1.5	27.2
1892.....	0.5	0.5	0.9	2.4	3.0	2.2	3.2	5.0	1.2	0.6	1.1	0.2	20.8
1893.....	1.5	1.4	1.0	2.7	2.2	4.6	4.0	1.9	1.2	1.3	1.1	0.8	23.7
1894.....	0.9	0.5	1.9	3.9	1.8	2.9	1.1	1.3	2.1	3.0	1.4	0.7	21.5
1895.....	0.9	0.5	0.4	1.6	3.0	5.1	2.6	2.0	2.8	0.7	1.3	1.0	21.9
1896.....	0.8	0.6	1.5	3.6	5.9	3.3	2.0	2.6	1.4	1.5	2.2	0.6	26.0
1897.....	1.4	1.5	1.5	0.5	1.5	2.5	6.5	2.4	0.4	1.5	0.7	0.6	20.0
1898.....	0.5	0.8	1.4	1.0	1.4	6.5	4.0	2.0	3.0	2.7	1.4	0.4	25.1
1899.....	1.2	0.4	0.8	1.8	2.0	2.7	3.0	3.0	1.2	1.9	0.5	0.5	19.0
1900.....	1.1	0.4	0.5	0.6	0.5	1.5	4.0	6.5	5.5	3.4	1.1	0.7	25.8
1901.....	0.9	0.4	0.8	1.0	1.0	4.8	2.9	3.2	2.0	1.5	0.6	0.8	19.9
1902.....	0.2	0.5	1.4	1.1	4.0	3.3	3.4	2.4	2.0	1.5	0.9	1.1	21.8
1903.....	0.9	0.5	1.0	1.4	3.3	1.8	2.5	3.6	4.4	1.8	0.9	1.2	23.3
1904.....	0.3	0.8	2.3	1.0	1.8	3.2	5.0	2.0	3.2	2.0	0.4	1.3	22.3
1905.....	0.3	0.3	1.6	0.7	3.1	5.5	4.2	3.7	3.5	2.0	1.4	0.2	26.5
1906.....	1.0	0.3	0.3	1.3	3.7	4.5	1.5	4.6	1.3	0.5	2.1	1.5	22.6
1907.....	2.2	0.5	1.1	1.1	0.7	2.8	4.3	4.8	2.7	0.9	0.6	0.2	21.9
1908.....	0.3	1.2	0.9	1.4	3.5	3.7	2.0	2.8	1.8	1.8	0.6	0.6	20.6
1909.....	1.0	0.3	0.8	0.8	2.3	2.2	3.9	4.0	3.0	2.7	1.6	2.5	25.1
1910.....	0.2	0.4	1.6	2.4	1.7	0.9	1.1	1.5	3.1	2.6	1.2	0.8	17.5
1911.....	0.8	1.1	0.4	1.6	3.3	3.5	3.7	4.8	2.6	1.5	1.2	1.1	25.6
1912.....	0.2	0.3	0.4	2.5	4.1	2.2	5.8	3.7	5.4	2.5	0.2	0.5	27.8
1913.....	0.5	0.6	0.7	0.8	2.0	3.0	4.2	3.8	1.5	2.7	0.9	0.1	20.8
1914.....	1.2	0.5	0.6	1.6	2.5	4.8	3.3	2.6	3.7	2.9	0.5	0.4	24.6
1915.....	0.6	1.1	0.3	2.0	2.0	6.1	1.8	1.0	3.2	0.9	1.8	0.9	21.7
1916.....	2.0	0.2	1.6	1.8	2.7	2.9	3.6	3.4	2.5	3.2	0.2	2.2	26.3
1917.....	0.8	1.3	0.7	1.1	0.1	2.2	3.4	2.6	1.3	3.0	0.9	0.8	18.2
1918.....	1.1	0.7	0.1	1.7	2.1	3.3	2.7	3.3	0.7	2.9	1.3	1.3	21.2
1919.....	0.2	0.6	1.2	1.2	1.9	4.5	7.5	2.9	3.5	1.3	1.7	0.4	26.9
35-year mean.....	0.9	0.7	1.0	1.6	2.3	3.4	3.4	2.9	2.5	1.8	1.0	0.9	22.3
1920.....	1.2	0.5	1.3	0.8	3.9	1.4	0.7	2.3	3.1	1.0	1.5	1.5	19.2
1921.....	0.8	1.4	1.2	2.2	1.1	1.5	5.8	2.6	4.0	0.6	0.9	0.6	22.7
1922.....	0.5	1.0	1.5	0.9	3.9	2.5	6.0	2.3	2.6	0.7	2.1	2.0	26.0
1923.....	1.1	0.7	1.7	1.8	0.6	3.4	5.9	2.0	2.4	1.4	0.8	0.4	22.2
1924.....	0.8	0.6	0.7	2.9	1.8	1.9	4.0	1.7	2.0	1.0	1.0	0.8	19.2
40-year mean.....	0.9	0.7	1.0	1.6	2.3	3.2	3.5	2.8	2.5	1.7	1.0	0.9	22.2
1925.....	1.8	0.8	1.5	2.2	0.7	8.1	1.4	2.7	4.1	1.4	0.7	0.7	26.1
1926.....	0.7	0.8	0.8	0.5	2.0	4.4	3.1	3.6	4.3	3.0	2.4	0.7	26.3
1927.....	0.3	0.5	0.7	1.8	4.6	2.8	2.5	2.7	2.1	2.8	0.9	0.7	22.4

## LAKE OF THE WOODS WATERSHED—MEAN MONTHLY TEMPERATURE

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1916

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Port Arthur.....	6.5	5.5	17.6	37.5	47.0	54.6	68.0	63.0	52.0	42.0	28.0	8.0	35.8
Savanne.....	-2.1		5.8	31.5	40.3	53.4	67.0	59.0	46.0	34.0	20.0	-6.0	29.1
Ignace.....	-3.9	-3.6	11.2	33.8	43.9	55.5	70.0	62.0	49.0	37.0	23.0	-3.0	31.2
Mine Centre.....	-4.0		17.8	34.9	46.6	57.6	73.0	63.0	51.0	38.0	26.0	-1.0	
Duluth.....	5.1	7.0	18.9	38.0	47.4	53.8	68.0	65.1	53.0	42.0	29.2	-8.8	36.4
Virginia.....	1.4	5.6	18.8	38.8	50.1	57.9	74.1	66.0	53.7	40.0	29.2	6.6	36.7
Winton.....			16.0	37.9	50.0	58.0	75.5	64.6	53.8	40.8	29.8		
International Falls.....	0.4	5.8	18.4	38.6	48.8	59.1	76.4	66.5	57.6				
Fort Frances.....	0.2	5.8	18.5	38.9	48.8	59.1	77.0	68.3	58.1	43.0	28.0	-3.4	37.4
Little Fork.....	0.6	1.5	16.1	37.0	48.1	56.8	72.4			38.6			
Rainy River.....				36.0									
Pokegama Falls.....	-1.1	2.0	17.0	36.8	49.1	56.6	72.8	65.2	53.4	40.7	28.0	4.8	35.4
Winnibigoshish.....	1.6	6.8	22.0	41.2	53.0	61.4	75.2	66.6	55.5	41.4	30.0	6.4	40.1
Baudette.....	-5.2	2.9	16.6	37.0	48.3	58.3	73.5	62.6	52.6	39.6	27.8		
Dryden.....	-4.0	-2.0	9.0	34.0	44.0	55.0	71.0	63.0	50.0	38.0	24.0	-3.0	31.6
Warracad.....	-4.4	1.9	15.4	36.6		61.4	73.3	65.2	53.4	38.8	27.9	1.2	
Hallock.....	-8.4	-2.1	14.3	36.6	51.3	58.7	73.2	66.2	54.8	37.6	27.2	-0.7	34.1
Roseau.....	-6.7	-2.8	13.6	35.6	48.6	56.4	71.7	63.4	51.5	36.2	25.6	-2.9	32.5
Pembina.....	-8.5	-3.8	15.2	37.5	51.7	60.4	76.4	66.3	52.8	35.4	24.2	-5.2	33.5
Kenora.....	-8.2	-1.4	12.7	32.1	42.2	58.5	72.0	64.0	51.0	37.0	26.0	-1.0	32.1
Keewatin.....	-3.7	0.3	14.3	37.7	48.5	59.4	72.1	65.4	54.1	40.1	28.3	3.0	35.0
Indian Bay.....	-6.7	1.4	12.7	35.3	46.2	56.6	71.0	62.0	49.0	35.0	24.0	-6.0	31.7
Winnipeg.....	-6.8	1.0	14.8	37.3	49.6	58.3	72.0	65.0	54.0	37.0	27.0	1.0	34.2

## AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0.5	4.0	15.5	36.4	46.7	56.3	71.7	63.9	52.2	39.8	26.4	2.8	34.7
Lower Rainy.....	-0.5	2.4	16.9	37.5	48.9	57.7	73.2	65.3	54.0	39.3	27.8	3.2	35.5
Lake of the Woods.....	-5.0	0.7	14.8	36.0	47.0	58.9	72.9	64.7	53.2	39.0	27.2	0.8	34.2

1917

Port Arthur.....	2.0	2.0	22.0	34.0	47.0	53.0	64.0	59.0	53.0	36.0	32.0	4.0	34.0
Savanne.....	-12.0	-12.0	14.0	26.0	52.0	51.0	66.0	54.0	50.0	30.0	22.0	-5.0	27.2
Ignace.....	-9.0	-9.0	16.0	30.0	45.0	55.0	63.0	58.0	53.0	29.0	30.0	-6.0	29.6
Mine Centre.....	-7.0	-12.0	19.0	32.0	48.0	56.0	70.0	56.0	53.0	31.0	29.0	-4.0	30.9
Duluth.....	3.2	1.8	23.2	33.2	46.0	53.0	64.5	59.8	53.6	33.8	34.4	4.4	34.2
Virginia.....	2.4	-0.1	22.9	37.3	52.8	62.0	71.2	64.0	58.4	33.0	33.2	1.7	36.6
Winton.....			18.2	32.9	50.0	57.1	67.2	63.4	55.8	35.0	32.8	1.7	
International Falls.....	-5.0	-3.4	23.4	35.0	49.2			60.5	55.0	32.8	32.5	0.2	
Fort Frances.....	-1.0	-5.0	22.0	35.0	49.0	59.0	70.0	62.0	55.0	33.0	33.0	1.0	34.4
Dryden.....	-12.0	-8.0	18.0	31.0	47.0	56.0	66.0	59.0	53.0	30.0	28.0	-6.0	30.2
Atikokan.....	-17.0	-6.0	20.0	31.0	47.0	54.0	66.0	59.0	51.0	29.0		-6.0	
Rainy River.....				24.0		58.0	71.0	62.0	56.0	31.0	30.0		
Pokegama Falls.....	-0.8	-1.8	21.8	35.9	48.6	58.2	68.6	61.0	54.8	32.8	33.2	1.2	34.4
Winnibigoshish.....		3.6	23.6	39.7	51.8	60.8	72.4	64.0	56.4	34.7	33.6	2.5	36.9
Baudette.....	-4.0	-5.2	20.8	35.8	50.0	57.9	68.6	61.9	55.9	33.0	33.2	0.2	34.0
Red Lake.....	-2.4	-3.2	23.6	35.4	49.6	59.6	72.6	64.7	57.2	34.4	34.0	-0.2	35.4
Warracad.....	-4.4	-6.2	20.6	33.8	50.4	57.6	68.3	63.8	55.0	33.0	33.2	1.8	33.9
Hallock.....	-5.3	-6.8	20.0	36.8	50.9	59.0	69.2	63.2	56.2	31.6	33.0	-3.8	33.7
Roseau.....	-7.8	-8.0	19.6	34.6	49.0	57.8	68.0	60.9	55.8	30.8	31.4	-4.6	32.3
Pembina.....	-7.8	-11.2	20.0	37.5	52.6	60.1	72.0	65.6	56.7	33.4	31.8	-11.5	33.3
Kenora.....	-8.0	-7.0	21.0	34.0	50.0	57.0	67.0	61.0	54.0	32.0	31.0	-5.0	32.2
Indian Bay.....	-9.0	-18.0	19.0	32.0	50.0	56.0	66.0	59.0		32.0	31.0	-5.0	
Winnipeg.....	-8.0	-6.0	20.0	35.0	51.0	60.0	69.0	63.0	56.0	33.0	33.0	-4.0	33.5

## AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	-9.0	-7.3	18.7	31.7	47.6	55.7	67.5	59.3	53.3	31.5	29.6	-2.6	31.3
Lower Rainy.....	-1.0	-3.6	22.1	36.5	50.5	59.5	70.3	62.7	56.1	33.4	33.3	1.0	35.1
Lake of the Woods.....	-6.6	-6.8	20.3	33.7	49.8	57.1	67.4	61.2	53.4	32.3	31.7	-2.5	32.6

RAINY LAKE INVESTIGATION

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY TEMPERATURE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1918

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Port Arthur	2.0	7.0	26.0	34.0	45.0	54.0	62.0	63.0	48.0	44.0	34.0	20.0	36.6
Savanne	- 9.0	- 2.0	23.0	32.0	42.0	51.0	59.0	56.0	42.0				
Ignace	- 6.0	- 3.0	23.0	35.0	45.0	56.0	61.0	62.0	44.0	38.0	27.0	12.0	32.8
Mine Centre	- 6.0	2.0	27.0	37.0	49.0	59.0	63.0	64.0	47.0	41.0	30.0	14.0	35.6
Duluth	8.0	10.8	31.4	36.3	46.9	57.4	63.2	64.6	50.4	45.4	33.6	23.5	39.3
Virginia	- 1.2	8.8	32.3	41.3	52.7	61.4	66.2	66.4	48.8	43.7	33.2	19.6	39.4
Winton	- 2.8	9.2	29.6	40.6	53.8	65.0	67.6	65.0	48.7	45.6	34.8	17.4	39.5
International Falls	- 2.0	7.8	32.8	41.9	51.2		65.6	66.2	49.9	44.8	33.2	16.4	
Fort Frances	- 1.0	9.0	30.0	41.0	51.0	61.0	67.0	66.0	50.0	45.0	35.0	21.0	39.6
Dryden	- 4.0	- 3.0	23.0	34.0	47.0	56.0	61.0	62.0	46.0	40.0	30.0		
Atikokan	- 10.0								55.0	46.0	32.0	14.0	
Rainy River		5.0	28.0	37.0	51.0	61.0	66.0	67.0	50.0	45.0	34.0		
Pokegama Falls	- 3.5	8.6	31.8	39.8	52.8	61.4	65.0	64.8	48.6	44.4	32.6	19.4	38.8
Winnibigoshish	- 2.6	9.5	32.8	41.8	54.0	63.8	67.6	67.2	51.6	46.3	32.8	19.8	40.4
Baudette	- 4.3	6.3	31.4	41.2	51.8	66.7		65.4	49.9	45.0	32.2	16.0	
Red Lake	- 5.0	6.8	33.1	41.5	51.8	63.2	66.8	67.0	51.4	46.6	32.0	18.0	39.4
Warroad	- 4.2	5.1	30.6	40.8	51.1	61.0	64.5	66.2	48.6	45.2	31.0	14.6	37.9
Hallock	- 7.7	4.4	34.0	41.8	51.0	62.6	63.2	65.8	49.6	45.3	29.6	12.0	37.6
Roseau	- 7.0	3.6	31.0	42.2	52.1	61.0	63.6	65.9	49.2	44.8	30.4	12.8	37.5
Pembina	- 6.4	3.6	33.2	51.5	51.5	62.3	64.6	65.6			28.0	12.4	
Kenora	- 7.0	1.0	27.0	39.0	48.0	60.0	64.0	64.0	48.0	42.0	31.0	13.0	35.8
Indian Bay			26.0	38.0	48.0	59.0	63.0	64.0		42.0	30.0		
Winnipeg	- 5.0	2.0	29.0	42.0	49.0	61.0	64.0	65.0	48.0	44.0	30.0	13.0	36.8

AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy	- 5.6	3.6	27.1	37.5	49.1	59.3	63.4	62.9	48.7	44.0	32.3	15.7	36.5
Lower Rainy	- 2.5	8.2	31.5	41.2	52.2	63.3	66.6	66.1	50.0	45.0	33.3	18.9	39.5
Lake of the Woods	- 5.2	2.8	28.2	39.4	49.4	61.0	64.2	64.6	48.4	43.1	31.1	13.8	36.6

1919

Port Arthur	17.0	17.0	23.0	37.0	49.0	62.0	65.0	63.0	53.0	39.0	24.0	5.0	37.8
Savanne		3.0	13.0	31.0	48.0	59.0	66.0	59.0	48.0	30.0	16.0	- 8.0	
Ignace	6.0	6.0	14.0	35.0	53.0	65.0	67.0	62.0	50.0	33.0	16.0	- 3.0	33.3
Mine Centre	10.0	8.0	17.0	38.0	55.0	66.0	68.0	64.0	53.0	34.0	16.0	- 7.0	35.2
Duluth	17.8	13.8	23.9	39.4	50.5	58.1	67.1	65.0	55.9	39.3	21.5	5.5	38.2
Virginia	15.6	12.1	23.0	41.1	55.0	66.8	69.8	64.7	56.8	37.6	20.4	3.0	38.8
Winton	13.6	9.4	21.3	39.8	56.1	69.3	71.4	66.4	56.5	40.4	26.6	- 4.0	38.9
International Falls	14.6	10.6	21.9	42.0	57.2	64.8	69.7	66.0	55.0	34.4	16.2	1.8	37.8
Fort Frances	17.0	12.0	23.0	40.0	58.0	68.0	70.0	66.0	56.0	37.0	14.0	5.0	38.8
Dryden	9.0	8.0	15.0	38.0	54.0	66.0	68.0	63.0	52.0	35.0	15.0	7.0	35.8
Atikokan	9.0	9.0	17.0	38.0	54.0	67.0	67.0	62.0	52.0	34.0	16.0	- 2.0	35.3
Rainy River				37.0	53.0	68.0		65.0	55.0	33.0		1.0	
Pokegama Falls	14.7	10.0	21.9	41.0	53.6	65.8	68.0	63.6	56.2	36.7	19.8	3.4	37.9
Winnibigoshish	15.6	10.0	21.2	40.0	54.0	67.6	70.2	66.2	58.2	37.7	20.0	4.4	38.8
Baudette	14.4	8.9	20.2	41.9	56.7	67.0	69.0	64.8	55.9	35.5	17.6	2.0	37.8
Red Lake	14.2	7.5	19.9	41.0	56.1	67.4	69.6	65.8	59.0	35.8	17.4	3.6	38.1
Warroad	11.6	6.3	18.4	39.8	56.3	67.0	68.1	64.8	55.2	34.9	16.2	0.8	36.6
Hallock	10.3	3.6	16.0	41.8	56.8	67.2	69.0	65.6	56.9	32.5	11.4	- 0.4	35.9
Roseau	10.2	5.8	16.0	43.5	60.7	67.9	68.4	64.8	56.1	32.5	13.0	0.0	36.6
Pembina	9.4	1.5	13.0	43.5	59.8	67.6	72.5	69.4	57.3	33.4	11.2	- 4.9	36.1
Kenora	12.0	7.0	17.0	40.0	57.0	67.0	67.0	65.0	55.0	35.0	16.0	1.0	36.6
Indian Bay		4.0	15.0	38.4	56.5	66.0	68.0	64.0	52.0	33.0	15.0		
Winnipeg	11.0	4.0	16.0	42.0	58.0	68.0	69.0	66.0	56.0	33.0	13.0	2.0	36.5

AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy	11.3	8.5	18.2	37.8	54.4	66.3	68.5	63.6	53.2	35.5	18.4	- 3.3	36.0
Lower Rainy	12.7	10.5	21.7	40.8	56.2	67.4	69.7	65.4	56.5	36.4	17.5	3.4	38.2
Lake of the Woods	12.2	7.0	17.7	39.9	56.5	66.8	68.0	64.6	54.4	34.6	16.0	0.5	36.5



REPORT OF ENGINEERS

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY TEMPERATURE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1920

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Port Arthur.....	1.0												
Savanne.....	- 9.0	3.0	16.4	27.2	46.4	56.3	56.7	56.7	58.2	45.1	17.1	13.6	32.1
Ignace.....	- 8.0	4.0	18.9	27.9	49.0	59.2	61.2	62.8	56.0	49.0	22.8	10.6	34.4
Mine Centre.....	- 6.0	5.0	20.7	30.0	52.5	61.4	63.9	64.0	57.1	48.0	25.1	15.0	36.4
Duluth.....	3.0	12.4	25.3	31.6	51.0	57.8	62.8	63.6	60.3	51.8	49.0	19.3	40.7
Virginia.....	0.6	10.8	25.1	32.7	53.4	63.0	64.7	64.7	59.7	50.8	25.4	16.6	39.0
Winton.....	- 1.0	7.8	25.3										
International Falls.....	- 1.8	9.6	23.7	29.5	51.4	61.0	67.6	67.2	62.6	52.0	29.5	17.6	39.1
Fort Frances.....	- 1.0	8.0	24.0	30.2	53.0	61.7	64.1	64.3	57.4	49.5	26.2	15.5	38.6
Atikokan.....	- 7.0	5.0	21.6	29.5	49.0	60.3	62.2	63.5	57.3	50.0	24.1	14.7	35.9
Dryden.....	-11.3	2.6	25.1	28.4	52.4	62.5	62.6	65.4	58.4	53.0	26.6	12.1	36.5
Rainy River.....	- 3.0												
Pokegama Falls.....	0.8	8.6	24.4	32.1	52.5	60.8	64.0	62.9	59.8	50.3	26.9	16.6	38.3
Winnibigoshish.....	0.4	8.6	25.2	33.4	55.0	63.3	66.7	66.2	61.2	51.2	27.8	16.4	39.6
Baudette.....	- 2.6	8.2	21.9	30.9	53.8	62.9	66.0	67.5	59.2	49.9	26.4	14.2	38.2
Red Lake.....	- 2.5	6.2	23.8	29.8	55.4	61.6	65.7	67.6	61.0	51.2	27.6	14.4	38.5
Warroad.....	- 3.5	5.6	21.3	31.5	52.2	62.4	64.8	66.2	58.8	49.6	27.2	13.3	37.5
Hallock.....	- 6.0	4.5	18.2	30.4	54.4	62.6	66.2	68.4	60.3	49.2	26.0	11.0	37.1
Roseau.....	- 5.2	7.4	19.4	32.2	50.6	62.4	63.8	65.6	58.8	50.4	25.8	11.7	36.9
Keewatin.....	- 5.0	7.0	19.5	30.1	53.6	61.0	66.6	69.8	61.2	49.0	27.9	14.9	38.0
Indian Bay.....	- 7.0	6.0	16.6	28.5	51.1	60.5	62.7	66.6	57.0	48.0	24.6	14.8	35.8
Winnipeg.....	- 4.0	6.0											

AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	- 4.8	6.4	22.0	29.8	50.7	60.7	62.5	63.1	57.7	49.1	23.9	14.7	36.3
Lower Rainy.....	1.0	9.2	23.8	31.5	53.7	62.6	65.3	65.7	59.3	50.2	26.9	15.5	36.7
Lake of the Woods.....	- 4.9	6.5	20.2	30.0	52.8	61.7	65.0	67.4	59.1	49.4	26.7	14.2	37.3

1921

Atikokan.....	9.5	13.3	18.7	40.5	53.0	61.0	69.1	62.3	56.9	43.6	19.7	11.4	38.6
Baudette.....	10.2	15.3	19.8	41.4	54.4	66.6	70.8	64.6	57.0	45.2	18.8	11.1	39.6
Dryden.....	4.4	11.8	13.9	38.7	55.3	68.9	74.2	61.4	53.8	43.2	19.2	11.3	38.0
Fort Frances.....	11.1	15.5	20.5	41.0	54.0	66.0	70.7	64.3	56.0	42.9	17.3	10.7	39.1
Ignace.....	6.3	11.4	15.7	36.4	51.0	64.0	68.1	59.7	53.5	41.7	16.1	7.3	35.9
Indian Bay.....	6.7	9.0	13.9	36.2	52.0	66.0	69.0	61.5	53.8	44.1	16.3	8.5	36.4
International Falls.....	14.2	19.1	24.9	44.6	56.1	66.2	71.2	63.8	58.4	48.4	20.0	13.2	41.6
Keewatin.....	9.0	16.1	19.8	40.2	55.2	69.0	73.0	66.4	57.9	46.4	21.7	10.6	40.4
Mine Centre.....	7.6	13.2	17.5	40.1	53.0	66.0	70.7	61.7	54.8	44.1	17.1	8.0	37.8
North Lake.....						65.8	70.7	57.8	54.8	42.9	18.0	11.0	
Pokegama Falls.....	12.9	17.4	24.8	43.6	54.2	65.6	71.0	64.0	57.8	45.8	20.7	12.2	40.8
Rainy River.....													
Red Lake.....	12.0	14.4	20.2	43.0	54.7	67.4	71.8	66.8	58.3	48.6	22.2	13.4	41.0
Savanne.....	11.4	11.4	10.3	33.4	48.4	64.8	64.7	54.8	48.8	40.1	10.3	7.8	33.8
Virginia.....	14.1	17.8	23.5	44.2	55.0	66.9	72.5	64.0	56.8	44.7	20.2	12.9	41.0
Warroad.....	9.6	12.4	18.4	38.7	53.2	66.4	69.8	64.2	56.6	46.2	18.7	11.4	38.8
Whitefish Bay.....													
Winnibigoshish.....	12.5	16.2	23.6	44.8	55.6	67.0	73.8	66.6	59.7	47.2	21.0	12.0	41.7
Winton.....													
Grand Rapids.....	13.6	19.2	25.6	44.4	55.4	67.4	73.3	65.8	58.4	46.2	21.3	12.9	41.9

NOTE.—Mean of Pokegama Falls and Grand Rapids used.

AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	9.9	13.9	18.1	39.9	52.8	65.8	70.0	61.2	55.1	42.8	17.7	10.2	38.1
Lower Rainy.....	11.7	16.0	21.5	42.6	54.7	66.6	71.7	64.9	57.3	45.0	19.2	11.6	40.2
Lake of the Woods.....	8.6	13.6	18.0	39.3	54.0	67.3	71.4	64.2	56.2	45.2	19.0	10.5	38.9
Average for Watershed.....	10.0	14.3	18.9	40.4	53.5	66.3	70.7	62.7	55.9	43.9	18.3	10.6	38.8

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY TEMPERATURE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1922

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Atikokan.....	3.9	5.1	22.7	39.5	58.9	62.8	63.1	63.8	55.8	42.5	32.9	2.2	37.8
Baudette.....	4.0	3.4	24.6	41.0	58.8	63.2	64.3	66.4	57.8	44.4	32.5	3.8	39.7
Dryden.....	1.4	0.7	22.3	37.7	58.7	59.3	61.5	64.0	54.2	39.8	31.3	-3.8	35.4
Fort Frances.....	2.9	3.9	22.5	37.3	56.4	60.8	62.1	63.6	55.2	41.7	30.9	4.0	36.7
Ignace.....	0.9	1.0	20.9	36.7	56.8	60.8	61.9	62.5	55.5	38.3	31.4	1.1	35.5
Indian Bay.....	0.3	0.6	21.3	38.0	56.7	61.3	58.8	65.1	57.3	41.7	30.2	0.3	35.9
International Falls.....	7.0	10.0	23.4	37.9	59.4	63.0	63.9	66.2	59.8	44.9	31.1	6.8	39.4
Keewatin.....	0.5	0.9	24.0	41.0	58.9	62.4	60.8	66.8	60.5	43.5	33.6	0.9	37.8
Mine Centre.....	1.6	2.0	21.7	38.2	58.6	62.4	63.7	63.6	55.5	40.9	30.6	2.5	36.8
North Lake.....	2.1	5.1	24.0	37.1	56.4	60.4	60.9	62.1	56.4	41.2	30.7	4.9	36.8
Pokegama Falls.....	5.0	3.8	25.0	39.5	58.6	63.2	64.2	65.8	58.4	46.6	33.7	8.6	39.4
Rainy River.....													
Red Lake.....	4.2	2.8	25.6	37.4	61.2			68.8	62.3	47.8	33.8	6.8	
Savanne.....	1.4	4.0	23.5	37.6	56.5	56.2	56.3	55.1	50.6	34.9	27.1	-3.6	33.3
Virginia.....	5.6	8.3	25.6	40.3	60.2	63.2	64.8	66.0	58.6	45.8	33.0	8.0	39.9
Warroad.....	3.6	3.3	23.8	39.9	58.6	64.6	65.0	66.3	58.0	44.5	33.0	3.8	38.7
Whitefish Bay.....													
Winnipegoshish.....	5.0	4.0	26.4	40.4	59.5	64.6	66.6	69.2	60.0	47.2	33.3	8.2	40.4
Winton.....													
Grand Rapids.....	6.7	5.5	28.1	40.7	59.4	64.8	66.0	67.8	58.6	46.6	33.9	9.7	40.6

AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	2.7	4.3	23.0	38.4	58.0	61.5	62.3	63.0	55.5	41.4	31.1	2.9	37.0
Lower Rainy.....	4.2	4.4	24.6	39.6	58.6	63.0	64.3	66.1	57.8	44.6	32.2	5.7	38.8
Lake of the Woods.....	1.0	1.9	23.3	39.7	58.2	62.4	61.8	65.9	58.0	43.1	31.9	1.7	37.4
Average for Watershed.....	2.7	3.8	23.4	39.0	58.2	62.0	62.7	64.4	56.6	42.5	31.5	3.3	37.5

1923

Atikokan.....	3.0	-0.5	8.0	34.0	51.0	64.0	68.0	58.0	50.0	37.0	28.0	14.0	34.5
Baudette.....	5.2	0.6	8.8	34.2	53.4	66.7	70.8	57.0	60.0	42.6	33.3	18.6	37.6
Dryden.....	0.5	-5.6	4.4	30.9	52.0	67.0	68.8	56.0	55.0	42.0	33.0	16.0	34.9
Fort Frances.....	3.0	-1.8	7.0	33.6	52.0	65.0	68.0	57.0	54.0	41.0	33.0	19.0	35.9
Ignace.....	0.9	-2.8	4.9	30.7	50.0	64.0	67.0	57.0	54.0	41.0	31.0	17.0	34.4
Indian Bay.....	0.5	-2.6	4.2	30.0	50.0	64.0	67.0	59.0	57.0	42.0	32.0	16.0	35.0
International Falls.....	7.2	5.4	13.0	35.8	54.4	66.3	73.5				31.6	21.0	
Keewatin.....	0.6	-1.9	10.0	34.5	53.0	66.3	70.0	64.0	60.0	44.0	33.0	18.8	37.8
Mine Centre.....	0.4	-1.7	7.1	35.2	53.0	66.0	69.0	58.0	56.0	41.0	32.0	17.0	36.1
North Lake.....	2.6	-2.4	4.7	32.6	50.0	65.0	66.0	57.0	55.0	40.4	32.0	19.0	35.1
Pokegama Falls.....	8.2	0.9	11.4	37.0	52.7	65.8	69.0	60.7	56.8	44.2	34.8	21.9	38.6
Rainy River.....													
Red Lake.....	6.2	0.4	10.1	36.7	54.3	67.8	72.6	62.4	58.5	43.4	35.1	21.4	39.1
Savanne.....	-1.6	-6.1	3.7	26.5	44.0	59.0	61.0	51.0	49.0	39.0	28.0	13.0	30.5
Virginia.....	8.2	4.7	13.2	38.4	54.3	66.6	69.9	60.8	56.7	44.3	33.7	22.2	39.4
Warroad.....	4.0	0.3	8.5	33.0	53.0	66.5	69.6	60.0	58.4	43.0	34.5	21.2	37.7
Whitefish Bay.....													
Winnipegoshish.....	7.4	1.0	10.9	36.8	55.2	68.1	71.2	63.1	59.3	44.8	35.0	20.5	39.4
Winton.....													
Grand Rapids.....	9.8	4.6	15.0	39.0	53.8	67.2	70.6	61.2	56.1	42.8	34.8	22.2	39.7

Note.—Mean of Grand Rapids and Pokegama Falls used.

AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	2.4	-1.2	7.3	33.7	51.4	65.1	67.6	57.4	53.5	40.4	31.0	17.0	35.4
Lower Rainy.....	5.6	1.7	9.6	35.4	53.7	66.6	69.8	58.5	57.6	42.9	33.7	19.0	37.9
Lake of the Woods.....	2.2	1.6	7.7	32.9	52.9	66.7	69.4	59.9	58.3	42.8	33.1	18.4	37.1
Average for Watershed.....	3.1	0.1	7.9	33.9	52.2	65.8	68.5	58.2	55.5	41.5	32.1	18.0	36.4

## LAKE OF THE WOODS WATERSHED—MEAN MONTHLY TEMPERATURE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU  
AND CANADIAN METEOROLOGICAL SERVICE

1924

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Atikokan.....	-10.0	7.0	18.0	33.0	40.0	48.2	51.4	53.8	46.0	42.0	18.7	-8.0	28.3
Baudette.....	-4.5	13.8	22.7	37.2	44.0	57.1	63.4	62.0	52.0	49.8	22.8	-2.0	34.8
Dryden.....	-7.6	13.1	21.2	36.0	41.0	53.0	61.0	58.5	52.0	49.0	21.0	-7.0	32.6
Fort Frances.....	-7.0	11.0	20.0	36.0	43.0	56.0	63.0	59.0	52.0	50.0	22.0	-3.0	33.5
Ignace.....	-12.0	7.0	18.0	33.0	41.0	53.0	61.0	59.0	50.0	48.0	20.0	-4.0	31.2
Indian Bay.....	-8.0	10.0	20.0	34.0	43.0	56.0	63.0	61.0	52.0	49.0	20.0	-4.0	33.0
International Falls.....	-6.6	11.6	22.0	35.6	43.1	.....	.....	.....	.....	.....	.....	.....	.....
Keewatin.....	-4.1	13.2	22.6	37.1	46.9	57.7	63.2	62.6	55.6	50.0	22.5	-1.9	35.4
Mine Centre.....	-8.0	11.0	20.0	36.0	44.0	56.0	63.0	60.0	50.0	48.0	21.0	-4.0	33.1
North Lake.....	-8.0	4.0	16.0	32.0	44.0	54.0	61.0	60.0	52.0	48.0	23.0	0	32.1
Pokegama Falls.....	-2.5	15.0	24.0	38.0	44.6	57.6	63.4	-61.6	52.5	51.0	26.3	1.0	36.0
Rainy River.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red Lake.....	-1.1	15.1	22.0	36.7	45.3	59.8	65.4	64.2	53.6	51.5	26.0	1.3	37.6
Savanne.....	-12.0	3.0	15.0	30.0	40.0	50.0	56.0	54.0	46.0	43.0	19.0	6.0	29.2
Virginia.....	-2.2	15.6	25.4	38.6	46.2	58.2	64.7	61.8	53.1	50.6	25.5	1.8	36.6
Warroad.....	-3.4	14.1	20.6	35.6	44.4	57.5	64.4	61.8	52.5	50.3	23.4	-1.6	35.0
Whitefish Bay.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Winnipegoshish.....	-1.4	15.6	25.0	38.4	47.0	60.4	.....	63.7	53.8	52.1	26.2	3.0	.....
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	-0.6	17.5	26.3	38.3	44.2	58.9	64.7	61.8	52.5	49.4	25.8	1.8	36.7

NOTE.—Mean of Pokegama Falls and Grand Rapids used.

## AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	-8.2	8.9	19.2	34.4	42.6	53.4	59.4	58.0	49.6	46.7	21.1	-2.7	31.9
Lower Rainy.....	-4.0	13.7	22.8	37.3	44.7	57.7	64.9	61.5	52.5	50.5	23.9	-0.5	35.4
Lake of the Woods.....	-5.2	12.7	21.4	36.0	44.4	56.7	63.2	61.4	53.1	49.7	22.0	-2.7	34.4
Average for Watershed.....	-6.5	10.9	20.5	35.5	43.5	55.1	61.5	60.7	51.0	48.2	21.9	-2.1	33.3

1925

Atikokan.....	-4.0	2.0	16.0	38.0	43.0	54.0	58.0	58.2	48.0	27.0	18.3	1.0	30.0
Baudette.....	2.7	9.0	21.0	43.0	49.8	60.0	65.0	66.2	55.8	31.2	24.4	8.3	36.4
Dryden.....	1.0	2.0	14.6	41.3	45.0	59.2	62.9	64.5	54.3	30.8	24.5	5.8	33.6
Fort Frances.....	2.0	7.0	20.0	42.0	49.0	59.0	64.0	64.0	55.0	33.0	25.0	8.0	35.7
Ignace.....	2.0	1.0	14.0	40.0	45.0	58.0	62.0	64.0	54.0	31.0	22.0	5.0	33.2
Indian Bay.....	-3.0	3.0	12.0	41.0	48.0	59.0	64.0	65.0	56.0	32.0	23.0	7.0	33.9
International Falls.....	3.0	7.5	22.2	43.7	46.9	.....	.....	.....	.....	33.6	.....	10.0	.....
Keewatin.....	1.3	5.7	17.7	41.9	50.1	59.0	66.5	67.6	58.3	36.1	26.7	9.4	36.7
Mine Centre.....	0	5.0	19.0	42.0	48.0	59.0	64.0	65.0	54.0	32.0	24.0	5.0	34.7
North Lake.....	5.0	9.0	26.0	43.0	46.0	58.2	62.0	63.0	54.0	32.0	25.0	11.0	36.1
Pokegama Falls.....	5.2	13.2	26.6	45.4	50.4	60.9	65.0	66.8	56.8	32.6	27.2	11.2	38.4
Rainy River.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red-by.....	5.4	10.2	23.4	44.8	51.8	61.4	66.2	68.0	58.0	34.2	25.0	12.9	38.4
Savanne.....	-4.0	-1.0	11.0	38.0	40.0	61.0	58.0	61.0	51.0	29.0	19.0	4.0	30.6
Virginia.....	7.4	13.4	28.0	44.0	50.4	61.6	66.0	66.6	57.4	33.1	26.2	10.0	38.7
Warroad.....	2.5	8.7	21.4	42.6	50.2	60.4	64.6	65.8	56.2	32.0	26.3	11.0	36.8
Whitefish Bay.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Winnipegoshish.....	6.6	13.9	27.4	45.8	53.2	.....	.....	.....	58.4	35.4	27.1	11.2	.....
Winton.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Rapids.....	6.6	14.3	29.4	47.1	51.9	62.0	66.1	68.2	57.4	33.5	28.1	11.2	39.6

NOTE.—Mean of Pokegama Falls and Grand Rapids used in computations.

## AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	0.6	5.3	19.4	41.0	46.0	58.7	61.9	62.8	52.8	30.7	22.6	5.7	34.0
Lower Rainy.....	4.1	13.0	23.3	43.4	50.4	60.3	65.0	65.8	56.4	33.0	25.4	9.3	37.5
Lake of the Woods.....	0.8	6.1	17.9	42.1	49.1	59.3	64.8	65.8	56.4	33.0	25.1	8.6	35.7
Average for Watershed.....	1.4	7.3	20.0	41.8	47.7	59.2	63.2	64.1	54.4	31.7	23.8	7.1	35.1

LAKE OF THE WOODS WATERSHED—MEAN MONTHLY TEMPERATURE—Concluded

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF U.S. WEATHER BUREAU AND CANADIAN METEOROLOGICAL SERVICE

1926

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Atikokan.....		11.0	16.0	32.0	53.0	55.0	64.0	63.0	50.0	38.0	17.0	3.0	33.5
Baudette.....	8.2	14.2	18.0	36.1	56.0	56.8	65.4	62.0	51.0	37.6	17.3	3.6	35.5
Dryden.....	1.6	8.4	13.5	28.6	51.3	55.7	63.8	61.5	50.0	36.0	16.0	1.0	32.3
Fort Frances.....	9.0	12.0	17.0	35.0	54.0	57.0	65.0	62.0	49.0	39.0	18.0	6.0	35.2
Ignace.....	2.0	6.0	10.0	28.0	51.0	54.0	62.0	61.0	45.0	36.0	12.0	0	30.6
Indian Bay.....	4.0	11.0	14.0	33.0	53.0	56.0	65.0	63.0	49.0	38.0	15.0	3.0	33.7
International Falls.....	7.8	13.8	19.8	33.0		56.5	64.8	59.8	47.0	36.6	15.8		
Keewatin.....	8.4	14.6	17.6	34.2	55.4	58.5	65.7	64.4	52.5	40.0	21.6	3.8	36.4
Mine Centre.....	4.0	10.0	14.0	32.0	53.0	56.0	65.0	61.0	49.0	37.0	16.0	2.0	33.2
North Lake.....	11.0	9.0	13.0	31.0	48.0	56.0	63.0	59.0	48.0	48.0	18.0	5.0	34.0
Pokegama Falls.....	11.0	14.6	18.8	38.4	55.4	57.1	65.6	63.6	50.8	40.2	20.1	7.8	36.9
Rainy River.....													
Red-by.....	9.7	15.4	20.4	37.7	57.0	58.0	68.1	65.0	51.0	37.0	21.0	6.6	37.2
Savanne.....	1.0	4.0	7.0	25.0	46.0	52.0	59.0	58.0	45.6	35.0	14.0	1.0	28.9
Virginia.....	9.2	15.4	18.8	37.1	55.0	56.9	66.4	63.2	50.0	40.0	19.8	7.7	36.6
Warroad.....	8.4	15.1	18.0	37.2	55.6	57.8	66.2	63.3	51.2	39.4	18.6	4.2	36.2
Whitefish Bay.....													
Winnipegoshish.....	11.4	15.8	20.2	39.5	56.8	58.6	67.8	64.8	52.4	41.4	20.5	7.0	38.0
Winton.....													
Grand Rapids.....	11.4	17.2	21.0	39.8	56.8	59.0	68.1	65.6	51.6	42.4	20.1	7.6	38.3

NOTE.—Mean of Pokegama Falls and Grand Rapids used in computations.

AVERAGE MONTHLY TEMPERATURE ON WATERSHED SUBDIVISIONS

Upper Rainy.....	4.8	10.2	14.5	32.0	52.0	55.5	64.0	61.4	48.7	39.0	16.8	3.6	33.5
Lower Rainy.....	9.3	14.1	18.4	36.8	55.5	57.4	67.0	63.0	50.6	39.3	18.7	5.8	36.3
Lake of the Woods.....	7.0	13.2	16.7	34.5	54.7	57.3	65.4	63.1	50.9	38.7	18.4	3.6	35.3
Average for Watershed.....	6.4	11.8	15.9	33.7	53.4	55.9	65.0	62.1	49.6	39.0	17.6	4.1	34.5

SUMMARY OF MONTHLY MEAN TEMPERATURE—UPPER RAINY WATERSHED  
 COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885	- 8	- 2	9	36	49	59	65	59	50	37	26	12	32.5
1886	- 3	3	18	38	53	60	66	61	47	43	20	1	33.9
1887	- 7	2	15	35	58	63	66	59	50	33	19	7	33.3
1888	- 9	3	9	32	43	61	65	60	49	37	25	14	32.4
1889	10	1	27	38	47	60	63	61	49	36	22	17	36.1
1890	2	8	14	38	43	63	65	58	50	41	27	14	35.2
1891	11	3	16	41	49	59	58	59	57	41	19	20	36.1
1892	- 1	9	18	31	44	57	64	61	53	43	17	4	33.3
1893	- 4	- 1	15	20	47	65	65	60	53	39	21	- 1	32.3
1894	2	5	23	38	49	65	67	63	55	42	18	17	37.0
1895	- 2	4	14	41	52	59	61	60	54	35	21	10	34.1
1896	5	8	12	37	55	60	63	60	49	36	13	12	34.3
1897	1	8	16	36	48	55	67	58	58	42	17	4	34.2
1898	7	7	22	32	48	59	64	60	55	38	21	6	34.9
1899	- 1	- 2	6	37	49	59	63	62	49	43	33	11	34.1
1900	11	- 2	14	44	53	61	61	68	53	49	21	11	37.0
1901	4	2	18	39	53	60	67	63	51	42	21	7	35.6
1902	8	10	28	36	52	56	66	59	50	40	28	7	36.7
1903	3	4	22	37	52	57	62	56	50	44	19	1	33.9
1904	- 4	- 5	15	32	48	59	59	58	49	40	30	6	32.2
1905	- 1	3	22	35	47	58	63	62	56	38	25	14	35.2
1906	12	4	14	42	48	60	64	62	58	40	27	8	36.6
1907	- 2	6	20	28	39	60	64	60	51	39	26	14	33.8
1908	9	11	19	39	51	58	63	59	57	42	28	10	37.2
1909	1	5	21	29	47	61	65	64	53	40	29	8	35.3
1910	8	3	34	43	47	65	66	60	54	44	22	8	37.8
1911	- 1	13	26	38	54	64	64	60	51	40	17	15	36.8
1912	-11	5	15	38	50	60	64	58	54	43	29	13	34.8
1913	1	0	13	41	48	63	62	62	53	37	30	21	35.9
1914	10	- 6	18	33	54	61	68	61	55	48	26	5	36.1
1915	1	15	21	47	48	55	62	61	54	43	27	13	37.2
1916	1	4	16	36	47	56	72	64	52	40	26	3	34.7
1917	- 9	- 7	19	32	48	56	68	59	53	32	30	- 3	31.5
1918	- 6	4	27	38	49	59	63	63	49	44	32	16	36.5
1919	11	9	18	38	54	66	69	64	53	36	18	- 3	36.0
35-year mean	1	4	18	37	49	60	64	61	52	40	24	9	35.0
1920	- 5	6	22	30	51	61	63	63	58	49	24	15	36.4
1921	10	14	18	40	53	66	70	61	55	43	18	10	38.2
1922	3	4	23	38	58	62	62	63	56	41	31	3	37.0
1923	2	- 1	7	34	51	65	68	57	54	40	31	17	35.4
1924	- 8	9	19	34	43	53	59	58	50	47	21	- 3	31.8
40-year mean	1	4	18	37	49	60	64	61	52	40	24	9	35.0
1925	1	5	19	41	46	59	62	63	53	31	23	6	34.0
1926	5	10	15	32	52	56	64	61	49	39	17	4	33.6

RAINY LAKE INVESTIGATION

SUMMARY OF MONTHLY MEAN TEMPERATURE—LOWER RAINY WATERSHED

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885	-7	-2	14	37	50	59	65	59	52	39	29	14	34.1
1886	-2	5	20	38	55	61	67	63	49	44	22	3	35.4
1887	5	2	17	36	58	63	67	61	52	35	21	7	34.5
1888	8	4	11	34	44	62	66	61	52	40	27	17	34.2
1889	12	2	30	41	48	61	65	64	51	39	24	17	37.8
1890	2	6	15	41	45	65	67	59	52	42	30	17	36.8
1891	14	4	17	44	51	60	61	61	59	43	21	18	37.8
1892	1	10	20	34	45	59	66	63	56	45	20	5	35.3
1893	-2	-1	16	30	49	66	66	62	54	41	22	1	33.7
1894	2	6	25	41	51	67	69	66	56	43	19	19	38.7
1895	-1	5	18	46	53	59	63	61	54	38	22	12	35.8
1896	4	9	14	38	56	63	65	61	50	37	12	14	35.3
1897	1	8	15	39	51	57	68	60	60	44	19	5	35.6
1898	8	9	22	37	49	61	66	62	55	39	22	6	36.3
1899	-2	-2	10	39	50	61	66	63	52	44	35	13	35.8
1900	12	-1	17	47	56	63	64	69	55	51	21	13	38.9
1901	5	3	20	41	55	60	69	65	53	46	23	8	37.4
1902	11	11	30	38	54	58	67	61	51	43	28	8	38.3
1903	4	5	23	39	53	60	64	59	51	46	20	3	35.6
1904	-3	-6	17	34	51	60	61	60	51	43	32	-9	33.9
1905	0	2	27	37	49	59	65	64	58	38	28	13	36.7
1906	13	6	17	44	49	62	67	64	60	43	29	9	38.6
1907	-4	8	21	29	41	62	65	62	52	41	28	17	35.2
1908	12	13	20	42	51	60	66	60	58	44	30	12	39.0
1909	3	6	22	30	49	63	68	66	56	42	30	8	36.8
1910	9	3	37	45	49	67	67	60	55	47	22	9	39.2
1911	-1	13	28	41	56	67	65	62	53	42	18	16	38.3
1912	-11	6	16	41	52	61	67	60	54	44	31	15	36.3
1913	0	2	14	44	49	65	63	65	55	39	33	23	37.7
1914	11	-4	22	36	56	63	70	63	57	50	28	6	38.2
1915	3	19	25	49	50	57	63	63	56	46	28	15	39.5
1916	-1	2	17	38	49	58	73	65	54	39	28	3	35.4
1917	-1	-4	22	37	51	60	70	63	56	33	33	1	35.1
1918	-3	8	32	41	52	63	67	66	50	45	33	19	39.4
1919	13	11	22	41	56	67	70	65	57	36	18	3	38.2
35-year mean	3	5	20	39	51	62	66	63	54	42	25	11	36.7
1920	1	9	24	32	54	63	65	66	59	50	27	16	38.8
1921	-12	16	22	43	55	67	72	65	57	45	19	12	40.4
1922	4	4	25	40	59	63	64	66	58	45	32	6	38.1
1923	6	2	10	35	54	67	70	59	58	43	34	20	37.9
1924	-4	14	23	37	45	58	65	62	53	51	24	-1	35.6
40-year mean	3	5	20	39	51	62	66	63	54	43	25	11	36.8
1925	4	13	23	43	50	60	65	66	56	33	25	9	37.3
1926	9	14	18	37	56	57	67	63	51	39	19	6	36.3

## SUMMARY OF MONTHLY MEAN TEMPERATURE—LAKE OF THE WOODS (PROPER) WATERSHED

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1885.....	-10	-4	11	35	49	60	65	58	52	37	27	11	32.7
1886.....	-8	-1	17	40	53	62	69	63	48	44	19	-1	33.8
1887.....	-10	-4	14	36	56	63	64	60	53	33	19	3	32.2
1888.....	-11	0	8	32	44	62	66	60	52	39	25	15	32.7
1889.....	9	-1	28	40	58	62	65	65	49	39	24	12	36.6
1890.....	-6	-2	11	38	43	67	67	59	50	41	30	16	34.5
1891.....	11	-3	12	42	49	60	61	61	56	40	18	13	35.0
1892.....	-3	3	18	31	44	59	65	62	53	42	16	1	32.6
1893.....	-5	-6	10	27	49	65	66	61	52	37	18	5	30.7
1894.....	-4	3	21	38	51	68	69	65	53	39	18	16	36.4
1895.....	-5	2	15	46	52	58	63	61	52	36	19	9	34.0
1896.....	1	7	12	36	54	63	64	60	49	36	8	12	33.6
1897.....	0	4	12	38	51	58	68	61	60	44	17	5	34.8
1898.....	6	7	18	37	49	60	65	62	54	38	21	5	35.1
1899.....	-4	-5	5	36	48	61	66	63	51	43	35	11	34.1
1900.....	9	-4	14	47	56	63	64	68	55	49	20	11	37.7
1901.....	6	2	19	40	55	60	69	65	52	45	22	7	36.9
1902.....	8	11	29	36	53	57	68	60	51	42	26	6	37.3
1903.....	3	2	21	38	53	61	64	60	50	46	22	2	35.2
1904.....	-3	-7	15	34	53	60	63	60	51	43	32	7	34.5
1905.....	-2	3	23	36	48	58	64	64	58	39	27	14	36.0
1906.....	10	3	16	44	48	62	67	64	60	41	28	6	37.4
1907.....	-7	5	19	27	39	62	66	60	50	39	27	17	33.6
1908.....	10	11	14	37	50	60	66	60	56	42	29	10	37.2
1909.....	0	3	19	27	48	63	67	66	56	40	26	6	35.1
1910.....	6	0	32	41	44	66	69	63	52	43	19	7	36.8
1911.....	-7	10	21	38	52	64	65	61	49	41	16	13	35.3
1912.....	-13	3	13	38	49	63	62	58	51	41	29	13	33.9
1913.....	-4	-1	12	42	46	63	62	63	54	37	32	19	35.4
1914.....	8	-6	21	34	53	62	69	64	57	50	28	5	37.1
1915.....	1	17	22	47	51	56	62	63	55	44	27	13	38.2
1916.....	-5	1	15	36	47	59	73	65	53	39	27	1	34.2
1917.....	-7	-7	20	34	50	57	67	61	53	32	32	-3	32.4
1918.....	-5	3	28	39	49	61	64	65	48	43	31	14	36.7
1919.....	12	7	18	40	57	67	68	65	54	35	16	1	36.6
35-year mean.....	-1	2	17	37	50	62	66	62	53	41	24	9	35.0
1920.....	-5	6	20	30	53	62	65	67	59	49	27	14	37.3
1921.....	9	14	18	39	54	67	71	64	56	45	19	11	38.9
1922.....	1	2	23	40	58	62	62	66	58	43	32	2	37.0
1923.....	2	2	8	33	53	67	69	60	58	43	33	18	37.1
1924.....	-5	13	21	36	44	57	63	61	53	50	22	-3	34.3
40-year mean.....	1	3	17	37	50	62	66	62	53	42	24	9	35.5
1925.....	1	6	18	42	49	59	65	66	56	33	25	9	35.7
1926.....	7	13	17	35	55	57	65	63	51	39	18	4	35.3

HYDROMETRIC DATA

MISCELLANEOUS WATER LEVELS—RAINY LAKE WATERSHED

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE AND UNITED STATES CORPS OF ENGINEERS

Lake	Elevation I.B.C. datum	Date	Lake	Elevation I.B.C. datum	Date
North			Iron	1217-12	18, 1923
Gumflint			Iron	1217-07	20, 1923
Maribouf			Iron	1217-64	Aug. 25, 1926
Seagull	1451-29	June 21, 1927	Iron	1217-89	26, 1926
Northern Light	1439-70	Oct. 1, 1927	Iron	1217-83	Oct. 1, 1927
Saganaga	1430-06	Sept. 15, 1923	Iron	1217-90	2, 1927
Saganaga	1429-56	29, 1923	Iron	1217-90	3, 1927
Saganaga	1429-56	28, 1925	Bottle	1217-34	Sept. 20, 1923
Saganaga	1429-50	Oct. 1, 1923	McAree	1195-27	14, 1923
Saganaga	1429-74	5, 1925	McAree	1196-39	July 24, 1926
Saganaga	1430-56	Jan. 21, 1927	Loon	1162-27	Aug. 16, 1923
Saganagons	1395-60	Oct. 6, 1925	Loon	1162-34	
Kawnipi	1296-30	7, 1925		(at U.S. bathouse)	
Sturgeon	1223-80	8, 1925	Loon	1162-70	15, 1923
Cypress	1385-46	Sept. 27, 1923			Sept. 9-10, 1926
Knife	1384-56	27, 1923	Loon	1162-40	17, 1926
Knife	1384-40	27, 1923	Loon	1162-40	20, 1926
Knife	1383-54	Oct. 3, 1925	Loon	1163-00	27, 1926
Knife	1384-78	Sept. 28, 1927	Lac La Croix	1182-96	Aug. 15, 1923
Carp	1356-53	27, 1923	Lac La Croix	1182-93	17-21, 1923
Carp	1355-05	28, 1927	Lac La Croix	1185-50	July 24, 1926
Birch	1337-20	28, 1923	Little Vermilion	1112-85	Aug. 11-13, 1923
Birch	1337-51	27, 1923			
Birch	1335-93	Oct. 6, 1927	Sand Point	1112-87	
Ensign	1344-37	6, 1927		(Near outlet)	
Burk	1319-71	April 1, 1927	Namakan	1111-51	8, 1923
Basswood	1300-90	Sept. 14, 1923			Sept. 2, 1923
Crooked	1246-90	14, 1923			
Crooked	1247-00	29, 1925			
Crooked	1217-00	1923			

MISCELLANEOUS HIGH WATER MARKS—RAINY LAKE WATERSHED

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Lake	High water mark, I.B.C. datum	Remarks	Lake	High water mark, I.B.C. datum	Remarks
<i>Saganaga</i>			<i>Knife</i>		
Edge of Lichen	1435-34	Located by 1925 Survey.	Edge of Lichen	1386-94	Located by 1925 Survey.
Bottom of Green Band	1433-84	" " "	Dark Mark	1385-04	" " "
Dark Band	1432-84	" " "			
<i>Saganagons</i>			<i>Birch</i>	1340-30	Located by 1923 Survey.
Edge of Lichen	1400-60	Located by 1925 Survey.	<i>Basswood</i>	1305-30	Located by 1923 Survey.
Bottom of Grey Band	1399-70	" " "		1304-70	" " "
Bottom of Black Band	1399-00	" " "	<i>Crooked</i>		
<i>Kawnipi</i>			Faint Mark in Lichen	1255-00	Located by 1925 Survey.
Edge of Lichen	1302-70	Located by 1925 Survey.	Top Dark Band	2154-30	" " "
Bottom of Grey Band	1301-30	" " "	Bottom Dark Band	1251-70	" " "
Top of Black Band	1298-80	" " "	<i>Iron</i>	1225-00	Located by 1923 Survey.
<i>Sturgeon</i>				1224-60	" " "
Edge of Lichen	1229-2	Located by 1925 Survey.		1222-80	" " "
Bottom of Green Band	1228-3	" " "	<i>La Croix</i>	1191-80	Located by 1923 Survey.
Black Band	1225-8	" " "		1189-20	" " "
Dark Band	1224-9	" " "		1188-10	" " "



MISCELLANEOUS DISCHARGE MEASUREMENTS—RAINY LAKE WATERSHED  
MEASUREMENTS MADE BY DOMINION WATER POWER AND RECLAMATION SERVICE AND UNITED STATES  
CORPS OF ENGINEERS

Date	River or Outlet Channel	Water Level	Discharge C.F.S.
Sept. 18, 1922	North Lake Outlet.....	99-20	3
17, 1922	Gunflint Lake Outlet.....	96-24	62
Aug. 12, 1927	Seagull River.....	* 4-08	63
30, 1927	"	* 3-83	43
18, 1927	Maribouef Lake Outlet.....		129
31, 1927	Birch Lake Outlet.....		133
Oct. 5, 1927	"		82
Sept. 10, 1922	Crooked Lake Outlet—Curtain Falls.....	1247-32	848
15, 1923	" " ".....	1246-88	568
28, 1925	" " ".....	1247-13	692
Oct. 10, 1925	" " ".....	1246-98	585
June 8, 1926	" " ".....	1247-48	1420
Aug. 23, 1921	Loon River, 1 mile below Loon Lake.....	1162-80	56
Sept. 6, 1922	" " ".....		17
Aug. 13, 1923	" " ".....	1162-34	8
13, 1923	" " ".....	1162-34	8
May 4, 1925	" " ".....	1163-31	187
Aug. 6, 1923	Little Vermilion Lake Outlet.....	1112-92	12
Sept. 5, 1923	Quetico River, 1 mile above mouth.....		17
5, 1923	"		18
	Above on right channel, left channel dry.		
4, 1922	Pipestone River, at First Rapids.....	96-06	4
1, 1922	Big Turtle River, below First Rapids.....	93-43	454

\*Gauge heights at section.

Note.—Measurements are referred to level of lake above section.

NORTHERN LIGHT LAKE

*Metering Section.*—Located at first rapids at the outlet of Northern Light Lake. Blazed trees on both sides identify the section. Miscellaneous meterings only.

*Gauge.*—Staff gauge read daily from September, 1926, to July, 1927, by U.S. Engineers. Gauge moved to North Arm of Northern Light Lake in July, 1927, and daily readings continued until September, 1927.

*Drainage Area.*—385 square miles.

*Discharge Measurements.*—From boat.

*Records Available.*—September 16, 1922, to August 29, 1927.

*Extremes of Stages Recorded.*—Maximum—June 7, 1927 (g.h. 1442-88), 899 c.f.s. Minimum—Oct. 2, 1923 (g.h. 1439-71), 100 c.f.s.

*Datum.*—United States and Canada Boundary Survey, Reference Monument No. 984. Elevation 1452-46.

DISCHARGE MEASUREMENTS—NORTHERN LIGHT LAKE OUTLET  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE AND UNITED STATES  
CORPS OF ENGINEERS

Date	Hydro-grapher	Width	Area of Section	Mean Velocity	Water Level, I.B.C. Datum	Dis-charge	Remarks
Sept. 16, 1922.....	Allen.....	66	268	0-54	1440-21	146	
Oct. 2, 1923.....	Rose.....	50	261	0-38	1439-71	100	
Jan. 19, 1927.....	Tennstrom.....	64	244	0-83	1440-74	203	
Mar. 21, 1927.....	Magie.....	80	240	0-65	1440-33	157	
June 7, 1927.....	".....	100	413	2-17	1442-88	899	
14, 1927.....	".....	103	381	1-76	1442-51	670	
Aug. 15, 1927.....	Tennstrom.....	81	319	0-90	1441-24	286	
29, 1927.....	".....	58	270	0-79	1440-85	212	

DISCHARGE RATING TABLE FOR OUTLET OF NORTHERN LIGHT LAKE

Gauge Height	Dis-charge	Differ-ence	Gauge Height	Dis-charge	Differ-ence	Gauge Height	Dis-charge	Differ-ence
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1438-00.....			1440-00.....	126		1442-00.....	488	
38-10.....			40-10.....	136	10	42-10.....	520	32
38-20.....			40-20.....	146	10	42-20.....	554	34
38-30.....			40-30.....	156	10	42-30.....	588	38
38-40.....			40-40.....	166	10	42-40.....	626	38
38-50.....			40-50.....	177	11	42-50.....	670	44
38-60.....			40-60.....	188	11	42-60.....	720	50
38-70.....			40-70.....	200	12	42-70.....	780	60
38-80.....			40-80.....	214	14	42-80.....	840	60
38-90.....			40-90.....	229	15	42-90.....		70
1439-00.....	50		1441-00.....	245	16	1443-00.....		
39-10.....	55	5	41-10.....	263	18	43-10.....		
39-20.....	61	6	41-20.....	283	20	43-20.....		
39-30.....	68	7	41-30.....	303	20	43-30.....		
39-40.....	75	7	41-40.....	325	22	43-40.....		
39-50.....	83	8	41-50.....	350	25	43-50.....		
39-60.....	91	8	41-60.....	375	25	43-60.....		
39-70.....	99	8	41-70.....	400	28	43-70.....		
39-80.....	107	8	41-80.....	428	28	43-80.....		
39-90.....	116	9	41-90.....	456	32	43-90.....		

RAINY LAKE INVESTIGATION

NORTHERN LIGHT LAKE WATER LEVELS  
 RECORDS OF UNITED STATES CORPS OF ENGINEERS  
 (Elevations refer to sea-level datum—United States Engineer Camp Gauge)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1										1440-77	1440-93	1440-98
2										40-76	40-93	40-98
3										40-76	40-92	40-98
4										40-76	40-91	40-98
5										40-78	40-90	40-98
6										40-78	40-88	40-98
7										40-78	40-88	40-98
8										40-78	40-88	40-98
9										40-78	40-88	40-98
10										40-78	40-87	40-98
11									1440-66	40-78	40-86	40-98
12									40-65	40-78	40-83	40-98
13									40-64	40-79	40-83	40-98
14									40-63	40-84	40-85	40-98
15									40-62	40-85	40-89	40-98
16									40-61	40-86	40-89	40-98
17									40-60	40-87	40-89	40-98
18									40-59	40-88	40-89	40-98
19									40-59	40-88	40-89	40-98
20									40-59	40-88	40-89	40-98
21									40-61	40-88	40-89	40-98
22									40-71	40-88	40-88	40-98
23									40-78	40-88	40-88	40-98
24									40-78	40-90	40-88	40-96
25									40-75	40-81	40-90	40-95
26									40-71	40-91	40-90	40-94
27									40-75	40-91	40-90	40-93
28									40-77	40-91	40-90	40-92
29									40-77	40-88	40-92	40-91
30									40-77	40-83	40-93	40-90
31										40-91		40-89
1927												
1	1440-89	1440-66	1440-47	1440-28	1443-00	1443-14	1442-01	1441-66	1440-79			
2	40-88	40-66	40-46	40-28	43-08	43-09	41-99	41-63	40-75			
3	40-87	40-65	40-45	40-29	43-23	43-03	42-04	41-58	40-73			
4	40-86	40-65	40-43	40-29	43-28	43-01	42-08	41-56	40-71			
5	40-85	40-65	40-42	40-30	43-33	42-98	42-09	41-54	40-69			
6	40-84	40-64	40-41	40-30	43-37	42-91	42-09	41-48	40-68			
7	40-84	40-63	40-40	40-30	43-40	42-88	42-09	41-46	40-65			
8	40-83	40-63	40-39	40-30	43-44	42-80	42-09	41-43	40-63			
9	40-83	40-62	40-38	40-30	43-50	42-78	42-09	41-43	40-61			
10	40-82	40-62	40-38	40-31	43-51	42-73	42-08	41-50	40-60			
11	40-81	40-61	40-38	40-31	43-51	42-66	42-08	41-38	40-60			
12	40-78	40-60	40-38	40-32	43-51	42-61	42-08	41-34	40-60			
13	40-78	40-60	40-38	40-33	43-50	42-56	42-08	41-31	40-50			
14	40-78	40-59	40-38	40-35	43-59	42-51	42-07	41-28	40-55			
15	40-78	40-57	40-38	40-38	43-60	42-42	42-06	41-24	40-50			
16	40-76	40-56	40-37	40-43	43-63	42-38	42-05	41-20	40-48			
17	40-76	40-55	40-36	40-53	43-66	42-34	42-04	41-15	40-46			
18	40-76	40-53	40-35	40-63	43-63	42-30	42-03	41-13	40-42			
19	40-74	40-52	40-35	41-08	43-61	42-27	42-02	41-11	40-40			
20	40-74	40-51	40-34	41-30	43-59	42-27	42-01	41-06	40-38			
21	40-74	40-50	40-33	41-55	43-58	42-29	42-00	41-04	40-36			
22	40-73	40-49	40-32	41-73	43-56	42-29	41-98	41-02				
23	40-72	40-49	40-31	41-93	43-51	42-25	41-98	41-00				
24	40-71	40-49	40-31	42-08	43-50	42-20	41-93	40-95				
25	40-70	40-49	40-30	42-23	43-48	42-18	41-88	40-94				
26	40-69	40-48	40-30	42-43	43-45	42-16	41-87	40-93				
27	40-68	40-48	40-29	42-58	43-40	42-13	41-83	40-92				
28	40-68	40-48	40-29	42-68	43-38	42-10	41-80	40-88				
29	40-67		40-28	42-81	43-33	42-07	41-73	40-85				
30	40-67		40-28	42-91	43-21	42-04	41-68	40-83				
31	40-66		40-28		43-20		41-67	40-81				

MEAN DAILY DISCHARGE IN SECOND-FEET—OUTLET OF NORTHERN LIGHT LAKE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1.										210	234	242
2.										208	234	242
3.										208	232	242
4.										208	231	242
5.										211	229	242
6.												
7.										211	226	242
8.										211	226	242
9.										211	226	242
10.										211	225	242
11.									195	211	223	242
12.									194	211	219	242
13.									193	213	219	242
14.									192	220	222	242
15.									190	222	227	242
16.									189	223	227	242
17.									188	225	227	242
18.									187	226	227	242
19.									187	226	227	242
20.									187	226	227	242
21.									189	226	227	242
22.									201	226	226	242
23.									211	226	226	242
24.									211	229	226	239
25.									207	231	229	237
26.									201	231	229	235
27.									207	231	229	234
28.									210	231	229	232
29.									210	226	232	231
30.									210	226	234	229
31.										231		227
Mean									198	220	227	240
1927												
1.	227	195	174	154	980	1080	491	390	213			
2.	226	195	173	154	1040	1040	485	383	207			
3.	225	194	172	155	1140	1000	501	370	204			
4.	223	194	169	155	1180	987	513	365	201			
5.	222	194	168	156	1210	966	517	360	199			
6.	220	193	167	156	1240	917	517	345	198			
7.	220	192	166	156	1260	896	517	340	194			
8.	219	192	165	156	1290	840	517	333	192			
9.	219	190	164	156	1330	834	517	333	189			
10.	217	190	164	157	1340	798	513	325	188			
11.	216	189	164	157	1340	756	513	321	188			
12.	211	188	164	158	1340	726	513	312	188			
13.	211	188	164	159	1330	700	513	305	177			
14.	211	187	164	161	1390	675	510	299	183			
15.	211	185	164	164	1400	635	507	291	177			
16.	208	184	163	170	1420	619	504	283	175			
17.	208	183	162	180	1440	603	501	273	173			
18.	208	180	161	192	1420	588	498	269	168			
19.	206	179	161	259	1410	578	494	265	166			
20.	206	178	160	303	1390	578	491	256	164			
21.	206	177	159	363	1390	585	488	252	162			
22.	204	176	158	408	1370	585	482	247				
23.	203	176	157	466	1340	571	482	245				
24.	201	176	157	512	1330	554	466	243				
25.	200	176	156	564	1320	547	450	235				
26.	199	175	156	638	1300	540	448	234				
27.	198	175	155	710	1260	530	436	232				
28.	198	175	155	768	1250	520	428	226				
29.	196		154	847	1210	510	408	222				
30.	196		154	917	1130	501	395	219				
31.	195		154		1120		392	216				
Mean	210	185	167	322	1290	709	484	290	186			

SAGANAGA LAKE

*Metering Section.*—Section above Silver Falls was used from September 15, 1923, to March, 1927. Section 400 feet north of the first portage at the outlet of Saganaga was used from March 1927, to September, 1927. Miscellaneous meterings only.

*Gauge.*—Staff gauge at Cache Bay and read daily by U.S. Engineers from May 19, 1927, to July 22, 1927, when the gauge was moved to mouth of Red Rock Bay and daily readings continued until September, 1927.

*Drainage Area.*—740 square miles.

*Discharge Measurements.*—From boat.

*Records Available.*—September 15, 1923, to August 30, 1927.

*Extremes of Stages Recorded.*—Maximum—June 8, 1927 (g.h. 1433.27), 2051 c.f.s. Minimum—September 28, 1925 (g.h. 1429.56), 241 c.f.s.

*Datum.*—United States and Canada Boundary Survey, Reference Monument No. 984. Elevation 1452.46.

SAGANAGA LAKE OUTLET—DISCHARGE MEASUREMENTS  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE AND UNITED STATES  
CORPS OF ENGINEERS

Date	Hydrographer	Width	Area of section	Mean velocity	Water level, I.B.C. datum	Discharge	Remarks
Sept. 15, 1923	Allen	98	1300	0.35	1430.06	459	
28, 1925	Rose	92	1210	0.20	1429.56	241	
Oct. 5, 1925	Hogarth	93	1220	0.30	1429.74	367	
Mar. 8, 1926	O'Rourke	118	942	0.14		136	
June 19, 1926	Tennstrom	120	1309	0.52		677	
Mar. 23, 1927	Magie	75	546	0.64		349	
June 8, 1927	"	99	897	2.29	1433.27	2051	
22, 1927	"	95	749	1.86	1432.58	1393	
Aug. 13, 1927	Tennstrom	83	639	1.24	1431.20	792	
30, 1927	"	81	596	0.82	1430.70	490	

DISCHARGE RATING TABLE FOR OUTLET OF SAGANAGA LAKE

Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1429.00			1431.00	706		1433.00	1710	100
29.10			31.10	740	34	33.10	1810	110
29.20			31.20	776	36	33.20	1920	120
29.30			31.30	812	36	33.30	2040	140
29.40			31.40	850	38	33.40		
29.50	250	25	31.50	890	40	33.50		
29.60	275	25	31.60	930	40	33.60		
29.70	300	25	31.70	970	40	33.70		
29.80	325	25	31.80	1010	40	33.80		
29.90	350	25	31.90	1050	40	33.90		
29.90	377	27	31.90	1050	50	33.90		
1430.00	404	27	1432.00	1100	50	1434.00		
30.10	432	28	32.10	1150	50	34.10		
30.20	460	28	32.20	1200	50	34.20		
30.30	488	28	32.30	1250	50	34.30		
30.40	516	28	32.40	1300	50	34.40		
30.50	546	30	32.50	1350	50	34.50		
30.60	576	30	32.60	1410	60	34.60		
30.70	608	32	32.70	1470	60	34.70		
30.80	640	32	32.80	1540	70	34.80		
30.90	672	32	32.90	1620	80	34.90		
		34			90			

## REPORT OF ENGINEERS

## SAGANAGA LAKE WATER LEVELS

## RECORDS OF UNITED STATES CORPS OF ENGINEERS

[Elevations refer to sea-level datum—United States Engineer Camp Gauge]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1						1433.65	1432.28	1431.63				
2						33.63	32.25	31.60				
3						33.59	32.23	31.55				
4						33.53	32.21	31.50				
5						33.45	32.18	31.45				
6						33.37	32.15	31.43				
7						33.33	32.15	31.40				
8						33.27	32.13	31.37				
9						33.25	32.10	31.35				
10						33.18	32.10	31.33				
11						33.10	32.07	31.29				
12						33.05	32.07	31.24				
13						32.97	32.05	31.20				
14						32.93	32.04	31.15				
15						32.87	32.03	31.13				
16						32.82	32.03	31.10				
17						32.76	32.01	31.07				
18						32.68	32.00	31.03				
19						32.63	32.00	31.00				
20					1433.87	32.61	31.98	30.98				
21					33.86	32.60	31.97	30.95				
22					33.85	32.58	31.95	30.93				
23					33.86	32.55	31.93	30.90				
24					33.85	32.52	31.90	30.85				
25					33.85	32.46	31.87	30.83				
26					33.81	32.45	31.83	30.80				
27					33.77	32.42	31.78	30.75				
28					33.75	32.38	31.74	30.75				
29					33.73	32.33	31.70	30.73				
30					33.69	32.30	31.68	30.70				
31					33.67		31.65	30.68				

## MEAN DAILY DISCHARGE IN SECOND- FEET—OUTLET OF SAGANAGA LAKE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1						2530	1240	942				
2						2500	1230	930				
3						2450	1220	910				
4						2360	1210	890				
5						2250	1190	870				
6						2040	1180	862				
7						2080	1180	850				
8						2000	1170	837				
9						1980	1150	831				
10						1900	1150	823				
11						1810	1140	808				
12						1760	1140	890				
13						1680	1130	776				
14						1650	1120	758				
15						1600	1120	750				
16						1560	1120	740				
17						1510	1110	730				
18						1460	1100	716				
19						1430	1100	706				
20					2840	1420	1090	699				
21					2820	1410	1090	689				
22					2810	1400	1080	682				
23					2820	1380	1070	672				
24					2810	1360	1050	656				
25					2810	1340	1040	650				
26					2750	1330	1020	640				
27					2700	1310	1000	634				
28					2670	1290	986	624				
29					2640	1270	970	618				
30					2590	1250	960	608				
31					2560		950	602				
Mean					2740	1710	1110	754				

MALIGNE RIVER

*Location.*—In channel below 2nd Falls. Miscellaneous meterings only.

*Gauge.*—Staff, above 2nd Falls. No continuous record.

*Drainage Area.*—2,400 square miles.

*Discharge Measurements.*—From boat. Miscellaneous measurements from September 8, 1922, to October, 1927.

*Extremes of Stage Recorded.*—Maximum, May 26, 1927, (g.h. 1204.53), 8150 sec. ft.; Minimum, March 10, 1924 (g.h. 1201.95), 311 sec. ft.

*Datum.*—United States and Canada Boundary Survey, Reference Monument No. 494. Elevation 1196.38.

A Gurley 7-day graph gauge was installed above 2nd Falls in 1927, and readings were obtained for short periods in 1927.

DISCHARGE MEASUREMENTS—MALIGNE RIVER—4 MILES ABOVE FIRST PORTAGE

RECORDS OF THE DOMINION WATER POWER AND RECLAMATION SERVICE

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height	Discharge	Remarks
		Feet	Sq. ft.	Ft. per sec.	Feet Water level above 1st Falls	Sec.-ft.	
1922							
Sept. 8	C. O. Allen	260	2390	0.58	1197.79	1380	
1923							
Feb. 1	C. O. Allen	205	1910	0.34	1196.90	643	Ice conditions.
Mar. 16	"	198	1780	0.33	1196.74	590	Ice conditions.
Sept. 12	J. T. Rose	250	2240	0.55	1197.56	1230	
1924							
Mar. 10	C. O. Allen	175	760	0.41	1196.24	311	Ice conditions.
1925							
May 3	C. O. Allen	406	2710	0.94	1199.31	2550	
July 31	"	267	2580	0.62	1198.14	1610	
Sept. 27	B. B. Hogarth	243	2110	0.40	1197.15	849	
Oct. 9	"	243	2170	0.40	1197.05	858	
1926							
June 4	J. T. Rose	508	2710	0.71	1199.49	1920	
July 17	"	485	3610	0.96	1200.98	3460	Water level above 2nd Falls—
Aug. 13	"	437	3090	0.76	1199.90	2340	1203.26
Sept. 15	"	403	2760	0.68	1199.15	1860	1202.85 1202.60
1927							
May 26	J. T. Rose	522	4910	1.66	1202.75	8150	1204.53
June 9	C. L. Clark	515	4230	1.45	1202.04	6150	1204.03
July 3	"	510	3850	1.21	1201.35	4660	1203.59
July 28	"	517	3770	1.23	1201.25	4620	1203.55
Aug. 24	"	478	2700	0.81	1199.07	2190	1202.68
Sept. 23	"	459	2310	0.54	1197.85	1240	1202.35

## MEAN DAILY GAUGE HEIGHT IN FEET OF MALIGNE RIVER ABOVE 2nd FALLS, ONT.

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Levels referred to sea-level datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1								1203-41				
2								1203-40				
3							1203-59	1203-38				
4							1203-58	1203-29				
5							1203-58	1203-20				
6							1203-61					
7							1203-63					
8							1203-66					
9						1204-03	1203-69					
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22									1202-35			
23								1202-68				
24								1202-57				
25												
26					1204-53			1202-57				
27								1202-56				
28								1203-58	1202-56			
29								1203-52	1202-55			
30								1203-49	1202-49			
31								1203-40	1202-48			

## KNIFE LAKE

*Metering Section.*—Below second logging dam. Miscellaneous meterings only.

*Gauge.*—Staff gauge 200 feet below second dam. No continuous readings.

*Drainage Area.*—120 square miles.

*Discharge Measurements.*—Wading.

*Records Available.*—September 13, 1922, to September 29, 1927.

*Extremes of Stages Recorded.*—Maximum—June 9, 1927 (g.h. 1-60), 165 c.f.s. Minimum—September 29, 1927 (g.h. 0-58), 27-5 c.f.s.

*Datum.*—Knife Lake level referred to International Boundary Commission datum from September 13, 1922, to October 3, 1925. From February 1, 1927, to September 29, 1927, gauge heights referred to assumed datum.

## KNIFE LAKE OUTLET—DISCHARGE MEASUREMENTS

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE AND UNITED STATES  
CORPS OF ENGINEERS

Date	Hydrographer	Width	Area of section	Mean velocity	Water levels I.B.C. datum	Discharge	Remarks
Sept. 13, 1922					1384-93	51	
27, 1923					1384-56	29	
Oct. 3, 1925					1383-54	44	
Feb. 1, 1927	Tennstrom	30	35	1-77	*0-98	62	
Mar. 25, 1927	Magie	33	36	1-67	*0-89	60	
June 9, 1927	"	36	55	3-00	*1-60	165	
22, 1927	"	33	50	2-42	*1-40	121	
Aug. 9, 1927	Tennstrom	27	29	2-10	*0-95	61	
31, 1927	"	31	29	1-07	*0-77	31	
Sept. 29, 1927	DesRosier	30	25	1-10	*0-58	27-5	

\*Gauge heights at section.

## KAWISHIWI RIVER NEAR WINTON, MINN.

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

*Location.*—In Sec. 20, T. 62 N., R. 11 W., in pond above lower dam of St. Croix Lumber Co. at Kawishiwi Falls, 500 feet above Fall Lake, 3,000 feet below Garden Lake, near west line of Lake County, and  $2\frac{1}{2}$  miles east of Winton, St. Louis County.

*Drainage Area.*—1,200 square miles.

*Records Available.*—June 21, 1905, to June 30, 1907; October 14, 1912, to September 30, 1919, when station was discontinued.

*Gauge.*—Stevens water-stage recorder installed the latter part of September, 1912, by the International Joint Commission in co-operation with the United States Geological Survey, at a point just above right end of dam. Well was attached to timbers, which were bolted to the vertical rock wall of right bank of river. Auxiliary staff gauge was also attached to one of these timbers. The gauge shelter was supported by timbers which were bolted to the horizontal portion of the rock wall above all possible high water. On May 27, 1913, the Stevens was replaced by a Friez water-stage recorder. During the high water of June, 1914, the well together with the float and weight were carried away by logs. At this time a concrete well was installed by the International Joint Commission a little below the dam and outside the river channel, and connected with pool above the dam by a pipe through the dam. The gauge was repaired and again put in operation about July 1, 1914. Both water-stage recorders refer to the same datum. Attended by G. W. Byshe.

*Discharge Measurements.*—Made from cable about 1,000 feet above gauge.

*Channel and Control.*—At the gauge the river flows through a small deep pool formed by a timber dam without openings, which constitutes the control of the gauge, and is permanent unless dam is destroyed or alterations are made in the crest. About 200 feet above the dam is a decided fall. Banks high enough to prevent overflow in vicinity of gauge. At measuring section bed of stream is composed of rock and boulders; rather rough. Current very swift except at low stages.

*Extremes of Discharge.*—1905-1907 and 1912-1919: Maximum stage recorded, 7.2 feet, April 30, and May 7, 1916 (discharge, 5,370 second-feet), no flow, August 24, 25, 30, 31 and September 1, 1905, August 6 and 8, 1906, and April 23, 24, and 26, 1907; caused by regulation at outlet of Garden Lake.

*Ice.*—Stage-discharge relation not seriously affected by ice.

*Regulation.*—St. Croix Lumber Company has a dam at outlet of Garden Lake for controlling the level of water in that lake, and for storing water to be used in driving logs over the stretch of rapids between Garden and Fall Lakes. This dam is capable of holding the water in Garden Lake about 7 or 8 feet above its natural level at low water before water will flow over the gates. When the water in Garden Lake is held at a high stage the elevation of water is considerably higher in Farm Lake, and it is understood that the elevation of the surface of White Iron Lake is somewhat affected by the stage of Garden Lake. During the log-driving season April to November, the water in Garden Lake is held to the elevation of top of gates practically all the time. In November some of the gates are opened so that the lake is drawn down to low-water stage, and remains so until spring. St. Croix Lumber Company has a dam at outlet of Birch Lake, which controls its elevation, and is capable of holding the water about 5 feet above low water. This dam is left open during winter and until high water of the spring break-up has passed. It is then closed, and the lake held as high as possible during the summer. There are a number of low dams in Stony River used for sluicing logs off rapids, but these have no storage of importance back of them. Large volumes of water are allowed to pass through sluices of dam at outlet of Garden Lake for a few hours at a time, at irregular intervals, when desired to drive logs from Garden Lake to Fall Lake. At other times these gates are closed so that there is only a slight flow caused by leakage through dam. At other times some of the gates are partly opened to allow passage of sufficient water to prevent flow over crest of dam. During the year there was little log driving on rivers.



*Accuracy.*—Stage-discharge relation permanent; not affected by ice or logs. Rating curve fairly well defined below 2,890 second-feet. Continuous gauge record from recording gauge during open-water period; weekly gauge readings during winter. Daily discharge ascertained as follows: October 1 to 31 and April 23 to September 30, obtained from water-stage recorder graph by means of discharge integrator; April 21 and 22 interpolated, on account of lack of gauge readings; ten-day averages, November 1 to April 20, based on weekly gauge readings. Record good for periods when water-stage recorder was operating; fair for other periods. Information as to operation of gates in dam at outlet of Garden Lake given in footnote to table of daily discharge.

*Datum.*—United States Geological Survey.

DISCHARGE MEASUREMENTS OF KAWISHIWI RIVER NEAR WINTON, MINNESOTA, DURING  
THE YEARS ENDING SEPT. 30, 1913-1923  
RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Date	Made by	Gauge height	Discharge
		Feet	Sec. ft.
1912-13			
Oct. 13	S. B. Soule	2.31	818
14	"	0.72	109
14	"	3.69	1,770
15	"	4.98	2,890
April 29	"	3.63	1,700
30	"	0.62	81
Sept. 12	B. J. Peterson	0.89	163
13	"	2.32	810
1913-14			
May 22	S. B. Soule	4.21	2,120
1914-15			
Sept. 23 <sup>1</sup>	S. B. Soule	1.23	186
1916-17			
Sept. 12	J. G. Hoyt	1.05	245
1923			
Feb. 9			221
Mar. 22			168
Sept. 27			250

<sup>1</sup> Logs lodged on crest of dam which constitutes control for gauge; one large log lay lengthwise of the crest and obstructed the flow almost entirely from that portion of the crest.

RAINY LAKE INVESTIGATION

DAILY DISCHARGE, SECOND-FEET—KAWISHIWI RIVER—NEAR WINTON, MINN.  
RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1												314
2												310
3												302
4												290
5												278
6												270
7												262
8												235
9												235
10											930	235
11												235
12												235
13												235
14										250	747	226
15										346		216
16										559		214
17										608		211
18										478		208
19										460	304	206
20										583	40	203
21										440	98	200
22										276	283	197
23										250	205	196
24										440	302	195
25										358	512	194
26										122	465	193
27										105	414	192
28											382	191
29											352	190
30											327	189
31												188
1913												
1	186	150	133	143	2400	1950	905	390	304	382		747
2	185	148	133	147	2360	1710	1030	590	441	387	930	742
3	184	146	133	149	2340	1480	1040	600	794	487	1050	736
4	182	145	132	153	2360	1110	1060	125	227	365	1040	730
5	180	144	131	155	2180	88	1060	127	256	625	908	720
6	177	143	130	157	1630	504	1060	289	445	448	817	714
7	174	142	129	159	1030	2380	1050	347	163	387	817	703
8	172	140	128	161	1210	2840	305	610	272	729	817	698
9	170	139	127	163	920	3380	1340	130	816	262	817	687
10	168	139	127	165	975	3170	736	130	239	436	1360	682
11	165	138	127	167	133	3190	940	494	333	655	1310	676
12	163	137	127	169	133	3040	1040	541	464	648	1270	671
13	163	136	127	170	332	3210	989	530	393	823	1220	661
14	163	135	127	220	854	3220	1380	130	326	638	1190	650
15	163	134	127	306	1600	3190	1050	541	670	938	1140	645
16	163	133	127	339	2230	2460	1300	130	157	1100	1130	640
17	163	133	128	369	2680	2130	1020	133	157	1110	1110	630
18	163	133	129	400	1860	2960	536	555	157	1010	1080	625
19	163	133	130	432	1910	2120	736	381	652	1490	868	620
20	162	133	131	465	2380	1990	738	136	317	1490	575	610
21	162	133	132	546	2930	2960	736	474	154	1470	585	580
22	161	133	133	630	2610	2240	820	571	157	1340	590	561
23	160	133	133	703	2070	1840	906	182	301	1230	590	541
24	159	133	134	854	1920	2630	742	381	807	1260	347	522
25	158	133	134	1050	2580	2000	1110	554	262	1570	145	503
26	157	133	135	1210	2980	2740	1490	353	266	1490	148	484
27	156	133	136	1410	3190	2140	1440	652	322	1680	148	470
28	154	133	137	1580	2890	2120	1730	120	163	1000	148	455
29	153		138	1750	2650	2010	1790	364	621	1540	492	446
30	152		139	1270	2420	1980	1640	378	382	1520	747	437
31	151		141		2180		1020	133		1500		428

DAILY DISCHARGE, SECOND-FEET—KAWISHIWI RIVER—NEAR WINTON, MINN.—Continued  
RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1	423	314	235	190	996	2610	2000	1640	667	880	242	197
2	418	311	70	190	1120	2520	1500	1720	924	1480	794	197
3	409	308	15	190	1180	3800	1390	1100	918	1620	615	197
4	400	306	15	190	1130	4480	2000	841	965	495	610	197
5	396	303	15	187	1250	3870	2020	271	931	725	600	197
6	391	300	15	187	1720	3870	2000	502	1020	730	595	197
7	382	297	60	187	2430	3870	1320	868	976	736	590	197
8	374	294	163	187	2830	2910	1360	337	977	736	600	197
9	369	292	60	183	2900	2520	1710	176	792	1490	600	197
10	365	289	15	183	3690	2520	2930	515	981	665	595	235
11	356	286	70	183	3970	2240	2950	696	743	453	585	235
12	356	283	247	180	3680	1150	.....	805	770	792	580	235
13	356	280	243	180	3740	1540	.....	823	776	714	575	235
14	356	277	239	141	3490	1130	.....	829	898	829	824	235
15	356	274	235	48	3190	1520	.....	836	1030	485	2020	235
16	356	272	231	49	2920	1200	.....	805	1100	1090	1590	235
17	356	269	231	51	2570	2140	.....	784	737	381	1320	235
18	356	266	231	290	2630	2180	.....	811	964	692	1120	235
19	356	263	227	345	2460	2000	.....	799	782	687	956	235
20	356	260	227	239	2290	1200	1120	272	675	687	817	235
21	356	257	227	247	2640	1130	860	170	805	682	709	235
22	356	254	227	258	2400	.....	810	414	805	676	615	235
23	356	252	227	274	2080	1860	930	330	1110	564	440	235
24	356	250	224	178	2090	.....	342	817	1330	531	274	235
25	356	247	216	73	1460	1130	1490	1050	785	662	235	235
26	350	245	216	71	2120	.....	857	981	1340	635	197	235
27	344	242	212	75	1950	.....	703	866	698	680	163	235
28	338	239	201	623	2020	2520	720	1130	1270	524	163	235
29	332	.....	197	960	2250	.....	759	854	656	142	163	235
30	326	.....	197	879	2700	2020	1320	972	793	406	163	235
31	320	.....	194	.....	2930	.....	1440	1440	.....	906	.....	235
1915												
1	235	214	192	170	55	1480	2570	640	323	80	1250	.....
2	235	213	187	170	55	1590	2710	517	645	80	1220	.....
3	235	211	182	170	57	1360	2570	556	1300	80	1140	.....
4	235	210	178	170	59	666	1820	386	1500	300	1060	.....
5	235	208	173	169	59	1490	1710	665	1220	94	965	.....
6	235	207	168	168	62	1400	2210	435	993	706	880	.....
7	235	205	163	167	62	1100	2200	1020	1020	181	930	.....
8	235	204	165	166	64	658	1800	972	997	214	1060	.....
9	235	203	168	165	66	1180	1990	947	.....	372	1290	.....
10	235	201	170	164	66	1370	1940	425	.....	446	1210	.....
11	232	200	173	163	68	862	2310	324	.....	878	1190	.....
12	230	199	175	164	68	1440	1510	326	.....	1380	1200	.....
13	227	198	177	166	71	2020	1440	278	201	473	1180	.....
14	224	197	180	167	986	2040	2260	276	313	1060	.....	.....
15	221	197	180	169	276	2030	1950	275	470	1190	.....	.....
16	219	197	180	170	689	2790	2730	338	448	1300	.....	.....
17	216	197	180	3000	407	3100	2760	336	423	1420	.....	.....
18	216	197	180	92	380	3170	2580	264	351	1750	.....	.....
19	216	197	180	87	903	3500	1250	83	170	1800	.....	.....
20	216	197	180	82	1790	3760	914	825	163	1960	.....	.....
21	216	197	180	77	1960	3620	1830	774	166	1870	.....	.....
22	216	197	179	72	1680	3170	1100	690	525	1720	1450	.....
23	216	197	177	67	1320	2910	919	1410	186	1610	.....	.....
24	216	197	176	62	1430	3160	1110	922	689	1700	.....	.....
25	216	197	174	57	937	3060	1690	687	186	1200	.....	.....
26	216	197	173	57	.....	3540	1180	1040	186	1370	.....	.....
27	216	197	171	57	.....	3390	1280	758	780	1350	.....	.....
28	216	197	170	53	.....	2800	1090	728	227	1260	.....	.....
29	216	.....	170	51	.....	2580	1160	166	943	1250	.....	.....
30	216	.....	170	53	.....	2690	1190	136	80	1230	.....	.....
31	216	.....	170	.....	1080	.....	538	139	.....	900	.....	.....

Discharge Oct. 14, 1912, to Sept. 30, 1915, computed from a rating curve well defined below 3,000 second-feet. Discharge for periods of rapid fluctuations in stage caused by logging operations determined from hourly gauge heights taken from recording gauge records; discharge during remainder of year determined from mean daily gauge heights. Discharge partly estimated on the following days: May 28-June 2, 1913, June 14, 18, 1914, and June 12, 1915.

Record Oct. 14, 1912, to Dec. 31, 1914, is the same as that published in report of Consulting Engineers, International Joint Commission, Lake of the Woods Levels, pp. 276-277, except that only three significant figures are here used.

RAINY LAKE INVESTIGATION

DAILY DISCHARGE, SECOND-FEET—KAWISHIWI RIVER—NEAR WINTON, MINN.—Continued  
RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1							2460	204	870	855	1240	615
2							2440	120	1060	1110	1230	595
3							2200	820	1000	875	760	580
4							1720	325	1010	830	755	566
5							1710	229	1460	815	745	556
6							1960	460	1280	650	740	540
7							1240	864	1240	980	735	520
8							1960	681	1400	490	730	505
9							1000	750	1530	490	725	500
10							1240	203	1290	490	720	495
11							1080	182	1360	490	715	495
12							1140	190	1790	490	710	495
13						2140	918	544	1260	780	1130	495
14							1410	624	1520	500	1160	495
15							290	270	1690	740	1150	495
16	515	395	330	2130	3920		378	654	1200	890	1140	495
17							940	483	1060	660	1140	495
18							648	586	1220	610	1140	485
19							412	586	1040	840	1130	475
20							368	628	1060	1080	1130	470
21							699	880	1240	1240	1120	455
22							142	790	1520	140	1120	440
23							113	670	809	805	1110	430
24							260	746	805	950	1100	425
25							260	785	811	950	1060	410
26						2400	830	590	1340	950	540	400
27						2390	135	408	800	965	690	395
28						2540	149	335	808	1270	670	390
29						2280	155	802	810	1270	650	385
30						2480	165	952	835	1260	630	380
31							247	590		1250		380
1917												
1				150	145	715	1600	480	485	650		
2				150	195	645	1650	600	350	1060		
3				150	170	980	1760	600	745	1100		356
4				150	140	790	1150	600	850	1060		
5				150	135	640	1720	600	240	920	1340	
6				150	145	700	1340	925	1120	1070		
7				150	120	875	1460	185	400	1180		
8				150	85	800	1200	580	1290	1440		
9				150		470	1220	595	910	1200		
10				150		580	1450	750	680	995	590	163
11				150		780	1080	795	660	1180		
12				50	70	760	1230	895	555	1000		
13				30		680	1500	1040	270	900		
14				25		540	1680	550	830	805		
15				22		430	1730	750	600	520		163
16	300	190	145	20		895	1740	940	600	385		
17				17	700	480	1920	900	850	735		
18				27	700	910	1840	1390	560	400		
19				42	700	2200	1970		740	815	590	
20				48	765	2390	1940		665	996		
21				51	895	2440	1020		190	590		
22				53	680	2140	1140	880	600			235
23				57	650	1820	1300		195	163		
24				57	1040	1130	1360		800			
25				57	710	2060	1220		710			
26				62	665	2130	815		1040		930	
27				62	345	2340	755	1170	510			
28				62	865	2120	630		725	630		
29				64	1090	2260	520		710	1010	1340	274
30				64	490	2250	550		880	425		
31					905		760		725			

DAILY DISCHARGE, SECOND FEET—KAWISHIWI RIVER—NEAR WINTON, MINN.—Concluded

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1				80				378	230	275		
2								380	220	585		
3						2700			218	404		
4			180						224	295		
5								1010	206	376		
6	314							170	218	127	65	55
7							866	170	228	122		
8				57				170	194	122		
9					590			170	202	119		
10						2890		204	216	116		
11		235	163					222	150	116		
12					356			505	150	111		
13	314							648	150	108		
14							747	662	150	240		
15				57				584	150	113		
16								342		113	55	210
17								257		94		
18		197	163			1270		163		72		
19					446			538		62		
20	314							459		59		
21							163	584		62		
22				57				163	163	68		
23								163	196	68		
24						996		282	176	68		
25		197	163					163	176	68		
26							133	330	300	68	50	225
27					2430			298	189	68		
28								392	230	127		
29								395	258	127		
30	274			80				430	234	310		
31								410	230	66		
1919												
1					2290	1520	788	66	48			
2					2200	1550	782	66	48			
3					2150	1490	776	66	48			
4					2120	1440	770	62	48			
5					2080	1040	602	60	48			
6	195	160	135	350	2080	898	522	57	48			
7					2080	943	522	56	48			
8					2080	879	522	55	46			
9					2080	898	434	54	46			
10					2080	1000	391	53	44			
11					2070	1120	391	48	44			
12					2060	1090	396	48	42			
13					2030	1100	391	48	42			
14					1940	1080	387	48	38			
15					1860	1100	387	48	36			
16	185	150	125	800	1600	1100	391	48	35			
17					1520	1120	186	48	33			
18					1350	1140	231	48	33			
19					1390	1170	136	48	33			
20				1270	1410	1170	68	48	32			
21					1250	1430	1170	66	48	32		
22					1230	1440	1130	64	48	30		
23					1200	1450	1080	64	48	30		
24					1210	1450	1080	64	48	30		
25		140			1220	1460	1060	64	48	30		
26	165		125		1090	1500	1030	66	48	30		
27					989	1520	1010	66	48	30		
28					1240	1530	963	66	48	30		
29					1520	1550	877	66	48	30		
30					2070	1520	805	66	48	30		
31						1500		66	48			

NOTE.—No gauge readings, discharge estimated, April 12-16, May 17-19, Aug. 2-5, 19-26, Sept. 15 and 16. Discharge based on record of stage for less than 24-hour periods, May 27, June 15, 17, July 29, 30, Sept. 14 and 15. Braced figures show mean discharge for period included, 1918.

Recording gauge not in perfect operation Oct. 22 to July 27 and Sept. 16-21. During this period gauge was read once weekly and the following information was obtained regarding operation of gates in dam at outlet of Garden Lake: Oct. 24 to Nov. 30, May 1-26, June 18 to July 25 gates were opened occasionally for purpose of log driving and mean discharge based on weekly readings may be subject to considerable error. Gates were not operated for log-driving purposes from Dec. 1 to April 30 and from May 27 to June 17; mean discharge based on weekly gauge height will give a fair estimate of flow. Gates opened only occasionally Sept. 16-21. Low flow during April due to gates in Garden Lake being closed for the purpose of increasing storage in Garden Lake.

Braced figures show mean discharge for periods indicated. Gates in dam at outlet of Garden Lake known to have been opened or closed, Oct. 1, 5, 14, 1918, April 5, 26, 28, 30, May 16, 17, June 5, 10, 29, and July 5, 9, 16, 17, 19, 1919.

KAWISHIWI RIVER—WINTON HYDRO-ELECTRIC PLANT  
RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

The records were made available by the Minnesota Power and Light Company at Duluth for the period from September, 1923, to January 1, 1928.

The discharge measurements were determined as follows:—

Through plant; based on actual salt solution rating test.

Tainter gate discharge:  $Q = .6 A \ 2 \text{ gh}$ .

Stop log section: (Not used during period of above records).

Gauge, Headwater.—A staff gauge read four times daily.

Gauge, Tailwater.—Automatic recording gauge checked daily with staff gauge.

KAWISHIWI RIVER—HEADWATER ELEVATIONS OF WINTON HYDRO-ELECTRIC PLANT  
RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1										1386-00		
2										85-95		1387-80
3										86-00		
4										86-00		
5										86-00		87-80
6										86-00		87-76
7												87-72
8										86-20	1387-10	87-70
9											87-20	87-60
10										86-30	87-20	87-60
11										86-30		87-60
12										86-40		87-60
13										86-45	87-35	87-60
14										86-50		87-50
15										86-60	87-40	87-50
16										86-70	87-40	87-50
17										86-70	87-40	87-50
18										86-70	87-40	87-50
19										86-80		87-50
20										86-80	87-40	87-50
21										86-80	87-40	87-45
22										86-80	87-40	87-40
23										86-80	87-40	87-49
24										86-85	87-60	87-47
25										86-80	87-60	87-50
26										86-80	87-60	87-50
27									1385-50	86-80	87-70	87-50
28									85-60	86-90	87-70	87-52
29									85-80	86-90		87-51
30									85-95	86-90	87-75	87-49
31												87-47

Minnesota Power & Light Company and International Boundary Commission datum are both sea-level datum referred to the Duluth and Iron Range Railroad datum. The reduction equations used, however, differ by an amount which is apparently 2.1 feet. Elevations recorded by the Minnesota Power & Light Company are greater than those of the International Boundary Commission by about that amount.

## KAWISHIWI RIVER—HEADWATER ELEVATIONS OF WINTON HYDRO-ELECTRIC PLANT—Con.

## RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	1387-40	1385-75	1385-30	1386-07	1386-76	1388-47	1387-94	1388-20	1387-90	1386-20	1387-80	1387-87
2	87-40	85-70	85-35	86-09	86-78	88-45	87-86	88-20	87-85	86-20	87-75	87-78
3	87-40	85-60	85-45	86-11	86-82	88-21	87-82	88-25	87-90	86-20	87-75	87-71
4	87-35	85-50	85-50	86-11	86-84	88-00	87-90	88-30	87-90	86-20	87-75	87-65
5	87-35	85-45	85-50	86-11	86-90	88-00	88-00	88-00	87-85	86-15	87-75	87-74
6	87-30	85-40	85-50	86-11	86-90	87-80	87-90	88-20	88-00	86-15	87-75	87-96
7	87-30	85-25	85-50	86-11	86-94	87-60	87-90	88-20	88-00	86-10	87-75	87-92
8	87-30	85-10	85-50	86-11	86-96	87-40	87-85	88-30	88-00	86-00	87-70	87-92
9	87-25	85-10	85-50	86-11	86-96	87-50	87-80	88-25	87-85	86-10	87-80	87-97
10	87-20	85-00	85-60	86-20	87-00	87-84	87-75	88-20	87-75	86-15	87-90	87-86
11	87-10	85-00	85-60	86-20	87-00	88-02	87-70	88-20	87-70	86-20	87-85	87-77
12	87-00	84-80	85-60	86-20	87-01	88-16	87-55	88-20	87-65	86-35	87-70	87-68
13	87-00	84-70	85-53	86-28	87-00	88-16	87-50	88-05	87-50	86-45	87-75	87-65
14	87-00	84-65	85-55	86-28	87-02	88-04	87-50	88-00	87-50	86-50	88-00	87-82
15	86-90	84-55	85-45	86-28	87-02	88-00	87-50	88-00	87-60	86-55	87-92	87-83
16	86-90	84-60	85-50	86-28	87-03	88-07	87-55	87-90	87-70	86-20	87-90	87-82
17	86-80	84-65	86-05	86-32	87-03	87-88	87-60	87-65	87-80	86-20	87-75	87-70
18	86-70	84-80	86-00	86-32	87-32	87-70	87-60	87-60	87-80	86-30	87-60	87-70
19	87-65	84-70	85-90	86-38	87-30	87-74	87-50	87-65	87-80	86-45	87-65	87-62
20	86-50	84-75	85-67	86-38	86-33	87-79	87-50	87-40	87-85	86-70	87-57	87-48
21	86-50	84-75	85-57	86-38	87-32	87-76	87-50	87-30	87-85	86-90	87-69	87-52
22	86-50	84-90	86-03	86-38	87-30	87-76	87-60	87-45	87-95	87-00	87-84	87-58
23	86-40	85-00	86-01	86-39	87-30	87-84	87-65	87-50	88-00	87-15	87-95	87-62
24	86-30	85-00	86-01	86-41	87-37	87-84	87-80	87-55	88-00	87-30	87-98	87-64
25	86-25	85-20	85-97	86-41	87-40	87-86	87-90	87-70	87-95	87-45	87-98	87-67
26	86-20	85-20	85-79	86-41	87-41	87-88	88-00	87-80	87-95	87-50	87-92	87-69
27	86-10	85-20	85-86	86-41	87-59	88-06	88-00	87-90	88-00	87-60	87-80	87-84
28	86-10	85-25	85-92	86-51	87-75	88-20	88-05	88-00	87-20	87-60	87-72	87-84
29	86-00	85-30	85-98	86-61	88-01	88-23	88-00	88-00	86-50	87-60	87-72	87-90
30	85-95	86-02	86-70	86-70	88-51	88-10	88-00	88-15	86-20	87-65	87-80	87-90
31	85-90	86-04	86-04	86-70	88-59	88-02	88-02	88-20	87-70	87-70	87-85	87-85
1925												
1	1387-68	1387-14	1387-60	1385-81	1387-14	1386-60	1387-82	1387-58	1387-50	1387-78	1387-60	1387-85
2	87-68	87-23	86-40	85-88	87-17	86-65	87-50	87-43	87-46	87-78	87-60	87-82
3	87-54	87-32	86-26	85-95	87-22	86-55	87-79	87-30	87-54	87-84	87-60	87-80
4	87-45	87-36	86-26	86-02	87-22	86-65	87-78	87-30	87-55	87-95	87-60	87-80
5	87-43	87-40	86-10	86-09	87-26	86-70	87-99	87-40	87-50	87-95	87-61	87-80
6	87-37	87-36	86-86	86-15	87-30	86-80	87-96	87-50	87-44	87-70	87-67	87-80
7	87-41	87-45	85-68	86-22	87-34	86-90	87-79	87-50	87-54	86-90	87-68	87-75
8	87-37	87-54	85-54	86-24	87-39	87-20	87-79	87-48	87-54	86-50	87-65	87-75
9	87-32	87-50	85-70	86-26	87-40	87-30	87-87	87-53	87-55	86-55	87-77	87-85
10	87-46	87-38	85-58	86-32	87-42	87-38	87-86	87-65	87-62	86-62	87-77	87-95
11	87-66	87-45	85-58	86-38	87-48	87-66	87-80	87-70	87-60	86-75	87-85	87-94
12	87-87	87-44	85-42	86-45	87-46	87-76	87-75	87-50	87-60	86-75	87-87	87-86
13	87-78	87-42	85-36	86-49	87-40	87-85	87-82	87-30	87-60	87-00	87-87	87-80
14	87-80	87-45	85-24	86-56	87-30	86-94	87-81	87-14	87-64	87-20	87-80	87-85
15	87-66	87-60	85-00	86-56	87-25	86-95	87-84	86-95	87-75	87-20	87-88	87-90
16	87-53	87-59	85-30	86-61	87-16	86-95	87-87	86-85	87-85	87-19	87-96	87-82
17	87-47	87-58	85-32	86-20	87-12	86-94	87-95	86-95	87-94	87-35	87-90	87-75
18	87-43	87-63	85-28	86-62	87-20	86-90	87-95	86-85	87-92	87-40	87-83	87-65
19	87-66	87-38	85-30	86-75	87-05	86-80	87-95	86-90	87-88	87-50	87-75	87-57
20	87-80	87-32	85-27	86-72	86-82	86-80	87-98	87-04	88-00	87-62	87-75	87-45
21	87-63	87-30	85-27	86-85	86-82	86-76	87-92	87-14	88-00	87-59	88-00	87-35
22	87-60	87-33	85-22	86-80	86-50	86-87	87-88	87-30	87-92	87-48	87-95	87-33
23	87-60	87-38	85-18	86-85	86-55	86-70	87-92	87-25	87-82	87-40	88-00	87-28
24	87-50	87-47	85-20	86-92	86-50	86-75	87-92	87-35	87-65	87-32	87-75	87-24
25	87-32	87-36	85-30	86-99	86-60	86-75	87-86	87-39	87-55	87-30	87-82	87-24
26	87-30	87-08	85-42	87-00	86-55	86-62	87-82	87-42	87-55	87-48	87-75	87-36
27	87-20	86-97	85-50	86-98	86-62	86-57	87-66	87-45	87-55	87-55	87-85	87-55
28	87-16	86-80	85-58	87-02	86-60	86-65	87-97	87-40	87-97	87-60	87-95	87-60
29	87-16	86-80	85-66	87-08	86-65	86-85	87-97	87-45	87-85	87-63	87-87	87-77
30	87-02	86-80	85-43	87-11	86-60	87-82	87-82	87-44	87-85	87-64	87-87	87-73
31	87-10	85-74	85-74	86-65	86-65	87-70	87-70	87-54	87-54	87-65	87-87	87-70

For information as to datum, see note on page 45.

KAWISHIWI RIVER—HEADWATER ELEVATIONS OF WINTON HYDRO-ELECTRIC PLANT—Con.

RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1	1387-65	1386-50	1386-80	1386-00	1387-32	1387-79	1387-90	1387-47	1387-65	1386-10	1387-82	1387-60
2	87-65	86-65	86-80	86-05	87-35	87-83	88-00	87-48	87-74	86-12	87-88	87-55
3	87-62	86-45	86-70	86-10	87-30	87-90	87-98	87-46	87-80	86-10	87-92	87-62
4	87-55	86-45	86-50	86-10	87-20	87-98	87-80	87-40	87-82	86-15	87-98	87-66
5	87-50	86-45	86-30	86-10	87-20	88-03	87-65	87-40	87-96	86-00	87-96	87-72
6	87-45	86-45	86-00	86-15	87-20	88-10	87-60	87-40	87-85	86-00	87-96	88-00
7	87-37	86-50	85-90	86-20	87-30	87-88	87-75	87-37	87-97	85-97	87-88	88-02
8	87-35	86-65	86-20	86-22	87-35	87-55	87-76	87-32	88-00	86-00	87-97	88-02
9	87-32	86-70	85-95	86-22	87-45	87-55	87-95	87-38	87-90	86-02	87-88	88-00
10	87-23	86-85	85-55	86-22	87-55	87-48	87-65	87-34	87-92	86-10	87-86	87-98
11	87-10	86-86	85-40	86-30	87-60	87-58	87-10	87-40	87-82	86-20	87-90	87-94
12	87-00	86-95	85-40	86-30	87-55	87-75	86-98	87-45	87-80	86-90	87-84	87-92
13	86-93	86-65	85-40	86-35	87-55	87-98	86-30	87-35	87-90	87-38	87-84	87-92
14	86-88	86-95	85-40	86-35	87-70	87-80	86-25	87-30	87-82	87-60	87-82	87-98
15	86-75	87-18	85-40	86-55	87-72	87-70	86-30	87-25	87-80	87-62	87-96	87-94
16	86-65	87-22	85-30	86-55	87-80	87-60	85-45	87-35	87-80	87-67	87-99	87-92
17	86-55	87-20	85-25	86-70	87-90	87-60	85-40	87-48	87-73	87-60	87-79	87-89
18	86-48	87-20	85-30	86-80	87-95	88-00	85-00	87-48	87-68	87-60	87-99	87-82
19	86-34	87-10	85-30	86-85	87-96	88-00	85-00	87-42	87-62	87-40	87-95	87-82
20	86-34	87-08	85-30	87-00	87-80	87-86	85-50	87-42	87-70	87-30	87-88	87-78
21	86-20	87-15	85-40	87-10	87-80	87-90	86-50	87-44	87-68	87-30	87-96	87-80
22	86-15	87-20	85-50	87-10	87-60	87-90	86-95	87-44	87-76	87-28	87-98	87-88
23	86-05	87-20	85-65	87-25	87-30	87-18	87-35	87-70	87-75	87-34	87-96	87-87
24	86-05	87-20	85-75	87-25	87-35	86-82	87-35	87-74	87-72	87-40	87-98	87-87
25	86-10	87-10	85-80	87-35	87-47	86-85	87-35	87-70	87-50	87-65	87-96	87-80
26	86-40	87-05	85-87	87-73	87-40	87-60	87-56	87-65	87-30	87-75	87-92	87-96
27	86-45	87-00	85-90	87-80	87-35	88-02	87-54	87-65	87-20	87-75	87-90	88-00
28	86-40	86-90	85-90	87-45	87-32	88-00	87-50	87-54	86-38	87-75	87-85	87-66
29	86-30	87-00	85-90	87-40	87-30	88-00	87-50	87-49	86-20	87-75	87-78	87-92
30	86-35	87-00	85-90	87-35	87-35	87-60	87-50	87-46	86-12	87-72	87-72	87-84
31	86-40	87-00	85-90	87-30	87-50	87-48	87-45	87-45	87-68	87-68	87-81	87-81
1927												
1	1387-72	1387-42	1385-72	1387-16	1387-92	1386-30	1387-26	1387-60	1386-94	1386-68	1387-40	1387-98
2	87-74	87-36	85-62	87-08	87-82	86-40	87-64	87-50	87-00	86-78	87-38	87-97
3	87-78	87-28	85-78	87-02	87-75	86-34	87-74	87-36	87-02	87-00	87-36	87-99
4	87-84	87-49	85-90	87-10	87-75	86-26	87-88	87-22	87-04	87-08	87-34	87-94
5	87-82	87-38	85-98	87-06	87-80	87-06	87-90	87-20	87-05	87-16	87-28	87-98
6	87-78	87-29	86-10	87-08	87-82	87-40	87-82	87-37	87-13	87-24	87-22	88-06
7	87-74	87-28	86-28	87-06	87-82	87-50	87-80	87-54	87-13	87-32	87-28	88-05
8	87-73	87-16	86-26	87-02	87-72	87-48	87-78	87-56	87-02	87-40	87-26	88-08
9	87-69	87-06	86-24	87-02	87-72	87-46	87-80	87-54	86-86	87-44	87-26	88-08
10	87-88	86-94	86-22	87-00	87-82	87-60	87-76	87-48	86-72	87-56	87-24	88-10
11	87-91	86-86	86-26	87-10	88-05	87-62	87-92	87-45	86-62	87-60	87-30	88-10
12	87-80	86-76	86-33	87-14	87-90	87-66	87-70	87-40	86-74	87-68	87-30	88-18
13	87-72	86-78	86-38	87-20	87-90	87-85	87-46	87-32	86-68	87-70	87-36	88-18
14	87-66	87-10	86-55	87-26	87-56	87-80	87-72	87-26	86-46	87-66	87-46	88-20
15	87-57	87-07	86-62	87-46	87-36	87-76	87-88	87-28	86-30	87-67	87-48	88-19
16	87-47	86-90	86-66	87-66	87-20	87-72	87-82	87-29	86-22	87-64	87-50	88-20
17	87-60	86-77	86-72	87-88	86-98	87-68	87-82	87-16	86-20	87-70	87-51	88-22
18	87-43	86-65	86-84	87-98	86-78	87-65	87-75	87-08	86-18	87-64	87-22	88-24
19	87-34	86-58	86-80	87-80	86-56	87-64	87-52	87-00	86-25	87-66	87-24	88-30
20	87-26	86-40	86-80	86-90	86-32	87-75	87-40	86-92	86-38	87-61	87-30	88-32
21	87-14	86-22	86-82	86-25	86-08	87-80	87-36	86-85	86-26	87-56	87-42	88-32
22	87-04	85-96	86-80	86-75	85-81	87-78	87-34	86-98	86-20	87-55	87-42	88-32
23	86-97	85-90	86-78	85-92	85-62	87-76	87-32	86-98	86-14	87-50	87-50	88-18
24	87-00	86-14	86-80	87-26	86-42	87-72	87-21	86-88	86-08	87-56	87-58	88-06
25	86-95	86-27	86-84	87-49	86-94	87-66	87-30	86-80	85-98	87-52	87-62	87-96
26	86-87	86-17	86-86	87-74	87-14	87-66	87-26	86-68	86-08	87-48	87-70	88-04
27	86-83	86-02	86-94	87-90	86-90	87-70	87-30	86-60	87-30	87-46	87-74	88-06
28	86-77	85-92	87-08	87-98	87-00	87-34	87-39	86-50	86-36	87-42	87-82	88-12
29	86-68	87-10	88-00	86-86	87-10	87-34	86-74	86-34	87-40	87-88	87-88	88-06
30	86-91	87-15	87-92	86-68	86-96	87-25	86-80	86-52	87-37	87-84	87-94	88-18
31	87-34	87-18	87-18	86-10	86-10	87-50	87-50	86-88	87-42	87-42	87-81	88-20

For information as to datum, see note on page 45.



KAWISHIWI RIVER—TAILWATER ELEVATIONS OF WINTON HYDRO-ELECTRIC PLANT

RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1										1318-05		
2										18-15		
3										18-20		
4										18-15		
5										18-15		1317-45
6												17-55
7												17-65
8										18-05		17-75
9										18-00		17-80
10										18-05		17-85
11										18-00		17-95
12										18-00		17-90
13										17-80		17-85
14										17-80		17-90
15										17-90		18-00
16										17-85		18-00
17										17-80		17-95
18										17-75		18-00
19										17-70		18-05
20										17-70		18-05
21										17-75		18-10
22										17-80		18-05
23										17-80		18-00
24										17-80		17-95
25										17-80		18-00
26										17-80		18-00
27									1318-40	17-80		17-95
28									18-22	17-80		18-00
29									18-05	17-70		18-00
30									18-00	17-70		18-00
31												17-80
1924												
1	1317-80	1318-35	1317-65	1317-77	1317-90	1318-80	1318-90	1319-45	1320-20	1320-90	1319-52	1319-45
2	17-90	18-35	17-60	17-73	17-90	18-80	19-20	19-45	20-10	20-90	19-55	19-50
3	18-00	18-35	17-60	17-70	17-85	18-80	19-65	19-78	20-15	20-90	19-60	19-50
4	18-00	18-25	17-60	17-70	17-80	18-90	19-50	20-80	20-15	20-85	19-60	19-33
5	18-00	18-25	17-65	17-70	17-80	19-00	19-55	20-65	19-90	20-85	19-60	19-10
6	18-00	18-30	17-70	17-70	17-75	19-00	19-55	20-40	20-00	20-82	19-60	19-10
7	18-10	18-30	17-75	17-70	17-70	19-00	19-55	20-67	20-15	20-77	19-60	19-20
8	18-20	18-25	17-80	17-70	17-70	19-00	19-55	20-25	20-08	20-70	19-60	19-17
9	18-25	18-27	17-83	17-70	17-70	19-00	19-60	19-40	20-07	20-55	19-40	19-25
10	18-20	18-00	17-82	17-65	17-70	19-00	19-60	18-95	19-90	20-50	19-32	19-35
11	18-20	18-30	17-80	17-60	17-65	18-70	19-65	19-05	19-75	20-55	19-47	19-42
12	18-20	18-30	17-80	17-60	17-65	18-60	19-65	19-05	19-70	20-60	19-40	19-47
13	18-20	18-30	17-80	17-60	17-70	18-85	19-55	19-05	19-60	20-55	19-20	19-22
14	18-20	18-28	17-85	17-60	17-75	19-05	19-40	19-05	19-37	20-55	19-40	18-87
15	18-25	18-20	17-95	17-60	17-80	18-95	19-40	19-12	19-30	20-60	19-50	19-10
16	18-20	18-15	18-00	17-70	17-80	18-90	19-35	19-20	18-95	20-85	19-50	19-32
17	18-25	18-05	18-00	17-75	17-80	19-05	19-45	19-33	19-05	20-70	19-50	19-32
18	18-25	18-00	18-05	17-80	17-80	19-05	19-45	19-15	19-17	20-55	19-50	19-32
19	18-25	18-00	18-10	17-80	17-80	19-00	19-60	19-20	19-23	20-40	15-50	19-40
20	18-25	18-05	18-15	17-80	17-80	18-90	19-20	19-42	19-25	20-22	19-40	19-30
21	18-20	18-05	18-15	17-85	17-80	18-80	18-85	19-40	19-28	20-20	19-12	19-10
22	18-25	17-95	18-15	17-95	17-90	18-60	18-67	19-23	19-40	20-20	19-00	19-00
23	18-30	17-85	18-15	18-00	18-00	18-50	18-57	19-10	19-55	20-18	19-00	19-00
24	18-30	17-80	18-15	17-95	18-00	18-55	18-50	18-90	19-58	20-07	19-10	18-97
25	18-25	17-77	18-23	17-90	18-00	18-55	18-50	18-78	19-67	20-00	19-32	18-95
26	18-25	17-72	18-22	17-90	18-00	18-60	18-75	18-75	19-77	19-97	19-45	18-90
27	18-30	17-70	18-10	17-95	18-00	18-72	18-90	18-70	20-13	20-00	19-50	18-78
28	18-30	17-70	18-00	17-90	18-00	18-75	19-17	18-83	20-80	20-00	19-45	18-73
29	18-30	17-70	17-92	17-90	18-00	18-78	19-37	18-97	20-95	19-95	19-40	18-82
30	18-30		17-83	17-90	18-25	18-77	19-60	19-12	21-00	19-77	19-32	18-95
31	18-30		17-80		18-60		19-42	20-35		19-65		19-15

Minnesota Power & Light Company and International Boundary Commission datum are both sea-level datum referred to the Duluth and Iron Range Railroad datum. The reduction equations used, however, differ by an amount which is apparently 2.1 feet. Elevations recorded by the Minnesota Power & Light Company are greater than those of the International Boundary Commission by about that amount.

KAWISHIWI RIVER—TAILWATER ELEVATIONS OF WINTON HYDRO-ELECTRIC PLANT—Con  
RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	1319-25	1318-70	1319-15	1318-35	1318-47	1318-72	1319-10	1319-52	1318-67	1320-15	1319-10	1318-95
2	19-30	18-55	19-17	18-35	18-35	18-60	19-10	19-50	18-80	20-17	19-10	19-00
3	19-35	18-50	19-07	18-35	18-32	18-92	19-10	19-45	18-87	20-22	19-07	18-95
4	19-32	18-50	19-00	18-32	18-25	18-87	19-05	19-22	18-85	20-27	19-05	18-97
5	19-35	18-57	19-12	18-30	18-32	18-80	19-00	18-90	18-82	20-45	19-02	18-90
6	19-12	18-57	19-15	18-30	18-30	18-85	19-05	18-90	18-80	20-75	19-00	19-00
7	19-15	18-47	19-05	18-30	18-27	18-72	19-05	19-00	18-72	20-95	19-00	19-00
8	19-10	18-50	19-02	18-35	18-41	18-25	18-97	18-95	18-62	20-80	19-00	18-95
9	18-95	18-75	18-82	18-40	18-40	18-37	18-97	18-77	18-67	20-60	18-97	18-65
10	18-72	18-85	18-80	18-40	18-45	18-77	19-00	18-65	18-77	20-45	18-97	18-60
11	18-57	18-75	18-80	18-32	18-35	18-90	19-02	18-95	18-80	20-25	18-95	18-80
12	18-70	18-72	18-77	18-30	18-40	18-92	18-95	19-20	18-80	20-10	18-90	18-85
13	18-88	18-70	18-80	18-30	18-35	19-10	18-87	19-27	18-80	19-95	18-80	18-80
14	19-08	18-65	18-87	18-30	18-24	19-17	18-90	19-15	18-70	19-90	18-85	18-65
15	19-22	18-47	18-82	18-30	18-20	19-40	18-95	19-30	18-75	19-85	18-90	18-70
16	19-22	18-42	18-67	18-27	18-11	19-45	18-75	19-12	18-80	19-65	18-95	18-87
17	19-25	18-52	18-70	18-32	18-72	19-70	18-65	19-00	18-87	19-45	19-00	18-90
18	19-10	18-80	18-65	18-37	18-70	19-90	18-85	19-00	18-90	19-35	18-95	18-90
19	18-80	18-95	18-60	18-35	18-87	19-90	18-75	18-87	19-00	19-15	18-80	18-92
20	18-75	18-95	18-62	18-32	19-05	19-80	18-65	18-80	19-07	19-20	18-55	18-95
21	19-13	18-87	18-62	18-30	19-09	19-72	18-60	18-75	19-05	19-20	18-47	18-90
22	18-97	18-70	18-67	18-30	19-04	19-72	18-60	18-72	19-10	19-20	18-50	18-80
23	19-05	18-50	18-72	18-35	18-90	19-70	19-05	18-77	19-10	19-20	18-62	18-77
24	19-15	18-57	18-65	18-37	18-75	19-55	19-50	18-65	19-10	19-20	18-82	18-75
25	19-17	18-67	18-55	18-37	18-62	19-45	19-50	18-55	19-10	19-17	18-92	18-70
26	19-07	19-00	18-50	18-42	18-58	19-55	19-35	18-55	19-10	19-10	18-80	18-62
27	19-05	19-10	18-45	18-42	18-65	19-42	19-20	18-62	19-25	19-07	18-55	18-60
28	19-05	19-15	18-37	18-42	18-62	19-20	19-25	18-67	19-65	19-12	18-62	18-55
29	18-92	18-32	18-37	18-60	19-05	19-37	18-70	18-70	19-90	19-15	18-85	18-50
30	18-90	18-37	18-37	18-62	19-12	19-47	18-65	20-07	19-15	18-85	18-85	18-60
31	18-77	18-35	18-35	18-64	19-50	18-57	19-10	19-10	19-10	18-62	18-62	18-62
1926												
1	1318-65	1318-22	1318-30	1317-70	1319-85	1318-30	1319-45	1318-80	1317-95	1320-70	1319-55	1319-25
2	18-67	18-22	18-30	17-70	19-85	18-37	19-37	18-80	17-70	20-70	19-47	19-25
3	18-72	18-25	18-42	17-70	19-87	18-45	19-55	18-80	17-45	20-65	19-42	19-25
4	18-77	18-25	18-50	17-70	19-92	18-50	19-70	18-80	17-32	20-72	19-40	19-22
5	18-80	18-25	18-60	17-70	19-92	18-65	19-70	18-80	17-25	20-75	19-40	19-10
6	18-80	18-22	18-65	17-67	19-77	18-97	19-35	18-80	17-27	20-72	19-40	18-97
7	18-80	18-10	18-50	17-65	19-72	19-30	19-10	18-80	17-25	20-70	19-40	19-15
8	18-80	18-00	18-30	17-65	19-70	19-22	18-97	18-75	17-50	20-65	19-40	19-20
9	18-80	18-00	18-45	17-65	19-65	19-17	19-32	18-70	17-12	20-55	19-40	19-27
10	18-80	18-00	18-60	17-50	19-60	18-95	19-77	18-70	17-15	20-45	19-40	19-27
11	18-80	18-00	18-55	17-50	19-60	18-80	19-90	18-50	17-00	20-10	19-32	19-30
12	18-80	18-00	18-45	17-50	19-50	19-02	19-90	18-55	16-85	19-80	19-25	19-27
13	18-80	18-00	18-30	17-50	19-42	19-25	19-90	18-65	16-65	19-80	19-20	19-25
14	18-80	17-95	18-20	17-50	19-40	19-37	19-77	18-35	16-60	19-80	19-20	19-20
15	18-80	17-95	18-25	17-50	19-35	19-45	20-15	18-55	16-60	19-80	19-20	19-20
16	18-80	18-05	18-27	17-60	19-25	19-10	20-50	18-50	16-60	19-87	19-20	19-20
17	18-80	18-10	18-22	17-60	19-15	19-02	20-55	18-50	16-60	19-95	19-30	19-20
18	18-67	18-15	18-20	17-60	19-20	19-05	20-55	18-50	16-60	20-10	19-40	19-20
19	18-60	18-20	18-20	17-60	19-20	19-37	20-50	18-50	16-60	20-22	19-50	19-20
20	18-60	18-20	18-15	17-75	19-05	19-45	19-97	18-50	16-60	20-10	19-50	19-20
21	18-60	18-05	18-05	17-95	18-97	19-60	19-55	18-45	16-60	20-00	19-50	19-20
22	18-60	18-00	18-00	18-00	19-00	20-15	19-05	18-30	18-25	19-95	19-45	19-20
23	18-55	18-05	18-00	18-00	18-87	20-45	19-00	17-95	18-80	19-90	19-40	19-20
24	18-40	18-20	17-95	18-00	18-55	20-05	18-85	18-12	19-20	19-77	19-40	19-20
25	18-25	18-30	17-90	18-00	18-42	19-42	18-80	18-30	19-50	19-75	19-40	19-10
26	18-17	18-20	17-90	18-35	18-42	19-12	18-65	18-40	19-85	19-80	19-40	19-00
27	18-20	18-30	17-82	19-17	18-50	19-40	18-65	18-42	20-40	19-85	19-35	19-10
28	18-25	18-30	17-75	19-52	18-50	19-75	18-72	18-37	20-65	19-90	19-30	19-20
29	18-30	17-75	19-70	18-50	19-95	18-78	18-15	20-72	19-85	19-85	19-27	19-20
30	18-30	17-75	19-82	18-45	19-65	18-80	18-00	20-70	19-77	19-25	19-25	19-20
31	18-27	17-75	18-32	18-32	18-32	18-80	18-12	19-65	19-65	19-65	19-20	19-20

For information as to datum, see note on page 48.

## KAWISHIWI RIVER—TAILWATER ELEVATIONS OF WINTON HYDRO-ELECTRIC PLANT—Con.

## RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927 .												
1.....	1319-20	1318-85	1319-00	1318-50	1322-55	1321-20	1320-00	1318-97	1318-50	1318-25	1317-65	1316-50
2.....	19-10	19-00	19-00	18-55	22-60	21-05	19-75	19-02	18-50	18-22	17-60	16-55
3.....	19-00	18-95	18-72	18-55	22-60	20-95	19-75	19-17	18-50	18-20	17-55	16-55
4.....	19-10	19-00	18-62	18-50	22-60	20-42	19-80	19-17	18-45	18-10	17-50	17-05
5.....	19-05	19-07	18-57	18-50	22-60	20-32	19-90	18-97	18-40	18-20	17-40	17-95
6.....	19-10	19-17	18-55	18-50	22-60	20-30	20-12	18-77	18-55	18-10	17-15	18-40
7.....	19-20	19-20	18-50	18-60	22-60	20-30	20-22	18-85	18-67	18-10	16-80	18-40
8.....	19-20	19-20	18-50	18-60	22-50	20-30	20-25	18-82	18-77	18-10	17-00	18-22
9.....	19-08	19-20	18-55	18-60	22-60	20-27	20-12	18-92	18-80	18-10	17-00	18-20
10.....	18-95	19-20	18-60	18-45	22-70	20-22	19-90	18-97	18-85	18-00	17-00	18-20
11.....	19-00	19-20	18-52	18-45	22-72	20-20	19-77	19-00	18-77	18-00	17-10	18-20
12.....	19-20	19-17	18-50	18-45	22-75	20-20	19-87	19-00	18-60	18-00	16-80	18-20
13.....	19-17	18-92	18-40	18-50	22-62	20-20	19-65	18-90	18-75	18-00	16-50	18-20
14.....	19-20	18-65	18-40	18-50	22-45	20-20	19-55	18-90	18-95	18-00	16-50	18-20
15.....	19-20	18-95	18-45	18-50	22-35	20-20	19-77	18-90	18-95	18-00	16-05	18-20
16.....	19-12	19-10	18-42	18-50	22-27	20-20	19-90	18-95	18-90	18-00	16-00	18-20
17.....	19-10	19-20	18-47	18-95	22-20	20-20	20-00	18-87	18-87	17-90	16-80	18-20
18.....	19-15	19-20	18-50	19-57	22-07	20-20	20-12	18-90	18-75	17-95	16-90	18-20
19.....	19-20	19-20	18-50	20-65	21-95	20-20	20-27	18-90	18-65	17-95	16-70	18-20
20.....	19-20	19-20	18-50	21-25	21-82	20-20	20-32	19-00	18-65	18-00	16-60	18-20
21.....	19-20	19-20	18-50	21-67	21-67	20-20	20-35	18-90	18-75	17-95	16-75	18-20
22.....	19-20	19-20	18-50	21-92	21-52	20-17	20-35	18-75	18-77	18-00	16-65	18-20
23.....	19-15	19-02	18-50	22-30	21-22	20-17	20-32	18-77	18-80	17-92	16-55	18-20
24.....	19-10	18-82	18-50	22-45	20-85	19-85	20-25	18-80	18-80	17-90	16-55	18-20
25.....	19-10	18-80	18-50	22-55	20-70	19-62	20-27	18-97	18-75	17-85	16-55	18-20
26.....	19-17	18-95	18-55	22-55	21-00	19-92	20-17	19-00	18-55	17-85	16-90	18-20
27.....	19-20	18-97	18-55	22-60	21-05	20-40	20-02	19-00	18-45	17-80	16-25	18-20
28.....	19-25	19-00	18-50	22-60	21-10	20-75	19-87	18-92	18-45	17-80	16-50	18-20
29.....	19-12	.....	18-50	22-60	21-22	20-77	19-75	18-75	18-47	17-80	16-70	18-30
30.....	18-90	.....	18-50	22-50	21-35	20-50	19-50	18-57	18-35	17-80	16-50	18-20
31.....	18-72	.....	18-50	.....	21-27	.....	19-22	18-50	.....	17-70	.....	18-20

For information as to datum, see note on page 48.

KAWISHIWI RIVER—MEAN DAILY DISCHARGE IN CUBIC FEET PER SECOND OF THE WINTON HYDRO-ELECTRIC PLANT

RECORDS OF MINNESOTA POWER AND LIGHT COMPANY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1.									278	221	11	0
2.									206	274	0	0
3.									152	182	0	0
4.									300	185	0	108
5.									275	128	0	117
6.									242	123	0	115
7.									290	0	0	116
8.									255	128	8	116
9.									245	138	0	0
10.									272	98	112	127
11.									310	66	0	142
12.									325	17	0	0
13.									330	0	6	146
14.									315	0	0	145
15.									310	0	0	147
16.									335	0	31	0
17.									360	0	50	148
18.									390	0	16	150
19.									395	0	0	153
20.									400	131	0	153
21.									415	0	35	151
22.									395	66	0	54
23.									380	86	0	0
24.									390	72	0	138
25.									247	71	0	0
26.									88	0	0	144
27.									213	0	0	150
28.									0	9	0	89
29.									0	0	0	22
30.									0	65	0	0
31.									0	0	0	208
Mean.....									270	66	9	91
1924												
1.	167	300	0	0	0	593	630	330	480	2381	900	911
2.	215	305	0	0	0	909	641	237	452	2381	902	910
3.	250	250	0	7	0	908	646	228	503	2381	900	910
4.	200	300	82	0	0	906	487	565	845	2381	900	403
5.	227	295	90	0	0	901	640	204	913	2381	900	143
6.	198	305	89	0	0	904	450	187	843	2381	900	727
7.	250	305	87	0	0	720	638	362	696	2172	902	635
8.	290	290	82	0	30	0	639	180	810	2189	769	510
9.	305	295	0	0	0	0	637	162	800	2113	410	841
10.	305	238	87	0	0	94	637	0	837	2128	794	857
11.	308	310	87	0	0	540	693	409	867	2095	901	908
12.	304	295	86	0	132	908	557	453	868	2145	422	694
13.	0	300	87	0	20	916	149	412	755	2190	557	207
14.	302	235	119	95	0	912	361	346	62	2205	903	290
15.	303	178	250	41	30	475	352	504	253	2329	902	745
16.	286	155	0	43	53	878	505	640	148	2430	893	902
17.	255	0	202	29	79	910	517	496	566	2062	900	760
18.	306	210	204	0	10	800	520	310	661	1605	900	810
19.	307	210	232	0	106	779	526	861	542	1411	846	900
20.	180	195	219	0	170	482	6	899	569	1780	361	595
21.	310	0	201	227	182	442	107	496	605	1340	199	451
22.	305	0	205	96	143	167	0	450	780	1350	254	451
23.	295	0	155	0	115	282	14	267	902	1178	457	479
24.	285	0	342	0	115	278	68	0	902	1219	592	452
25.	285	0	300	0	99	301	28	171	900	1191	910	452
26.	280	0	0	0	112	511	155	170	900	1068	912	229
27.	213	0	0	0	113	630	298	302	898	1188	900	214
28.	305	54	0	0	113	630	374	453	882	1188	790	326
29.	290	0	0	40	114	568	545	453	882	1104	698	468
30.	302	0	0	0	807	630	492	177	876	902	690	672
31.	300	0	0	0	912	204	192	0	0	678	0	904
Mean.....	262	163	103	19	111	599	404	352	702	1490	734	605

KAWISHIWI RIVER—MEAN DAILY DISCHARGE IN CUBIC FEET PER SECOND OF THE WINTON  
HYDRO-ELECTRIC PLANT—Continued

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1.....	640	0	724	0	70	443	605	950	336	1894	430	960
2.....	847	0	648	0	0	565	592	859	340	1888	404	879
3.....	842	146	280	3	78	378	712	694	336	1925	441	837
4.....	670	146	642	0	75	234	358	184	340	1982	456	956
5.....	626	314	702	0	44	264	680	178	338	2552	456	956
6.....	462	28	684	0	0	135	655	506	38	3010	510	952
7.....	741	0	538	77	58	17	497	396	143	2622	532	884
8.....	440	410	120	148	124	299	550	207	281	2184	213	632
9.....	122	632	414	97	140	340	558	0	358	1888	433	350
10.....	70	260	346	0	0	418	548	315	405	1741	306	793
11.....	0	199	450	0	158	458	538	954	396	1356	481	960
12.....	635	252	323	0	290	586	252	928	330	1471	480	960
13.....	498	204	462	0	460	582	523	583	79	1335	480	467
14.....	910	12	460	36	295	696	588	821	289	1346	480	614
15.....	852	6	0	0	473	916	476	754	315	1242	238	960
16.....	750	90	188	0	358	1161	578	104	372	762	732	956
17.....	645	453	284	220	0	1385	672	470	478	606	960	956
18.....	214	609	154	5	473	1517	912	294	512	410	860	952
19.....	132	554	247	14	688	1313	964	242	521	556	186	948
20.....	628	298	185	75	687	1179	964	204	504	628	190	942
21.....	728	162	214	20	730	975	874	224	612	614	543	639
22.....	452	0	591	24	354	1392	790	373	552	610	392	696
23.....	570	0	175	78	358	986	791	0	590	600	796	696
24.....	782	472	67	0	0	965	904	144	616	604	960	696
25.....	632	641	0	134	235	1017	901	189	628	389	915	0
26.....	595	701	0	230	223	990	276	224	604	564	260	102
27.....	475	692	0	64	205	836	645	270	1048	622	214	0
28.....	446	696	0	8	184	268	781	233	1584	620	960	558
29.....	448	.....	0	64	325	644	928	168	1748	602	960	700
30.....	275	.....	106	70	202	670	956	41	1878	529	849	696
31.....	246	.....	0	.....	100	.....	956	267	.....	590	.....	696
Mean.....	528	285	290	45	238	721	678	380	552	1220	536	722
1926												
1.....	654	250	313	0	1842	499	1196	919	416	2056	877	942
2.....	696	483	569	0	1832	496	1312	952	409	2052	830	790
3.....	696	348	867	0	2071	496	1649	952	409	1966	835	792
4.....	696	348	872	0	1939	498	1501	952	409	2123	1019	548
5.....	696	28	868	0	1706	609	1220	952	466	2224	1019	375
6.....	696	0	345	0	1583	1254	991	952	233	2228	1086	690
7.....	696	69	53	0	1584	1351	960	952	547	2224	554	912
8.....	696	0	720	40	1588	1320	1093	707	708	2012	942	956
9.....	696	20	872	0	1373	996	956	954	467	1884	992	956
10.....	695	226	595	0	1581	720	784	654	573	1658	836	956
11.....	695	225	361	0	1636	820	346	683	472	1176	956	956
12.....	695	117	346	0	1234	1134	1924	958	221	806	605	852
13.....	695	0	346	0	1242	1476	864	956	474	1114	700	884
14.....	695	0	347	0	1243	1689	1809	952	474	1222	396	912
15.....	694	204	347	0	1219	1236	2260	480	430	1222	812	956
16.....	694	350	346	0	984	956	2866	820	536	1384	769	956
17.....	562	350	180	0	1156	960	2589	749	586	1384	786	956
18.....	534	350	180	0	1406	1229	2774	900	472	1613	1109	956
19.....	534	293	180	0	1226	1457	2176	924	64	1473	1176	956
20.....	534	0	105	0	960	1120	1489	652	288	1396	900	827
21.....	535	0	0	233	960	1455	1006	468	359	1328	687	671
22.....	534	280	0	0	956	2239	952	0	624	1306	988	790
23.....	328	396	0	0	124	2307	952	489	919	1315	1051	790
24.....	0	396	0	0	280	1511	952	700	1331	974	1034	790
25.....	197	396	0	0	428	950	810	880	1482	1218	1036	480
26.....	336	396	0	730	467	956	780	960	1475	1320	981	663
27.....	350	480	0	1864	439	1003	952	792	2061	1320	954	820
28.....	350	288	0	1849	476	2049	952	700	2246	1320	954	960
29.....	354	.....	0	1832	573	1888	950	700	2093	1260	952	956
30.....	154	.....	0	2012	0	1048	952	414	2052	1184	944	956
31.....	0	.....	0	.....	221	.....	952	416	.....	855	.....	956
Mean.....	528	225	284	285	1110	1190	1320	760	780	1500	895	811

KAWISHIWI RIVER—MEAN DAILY DISCHARGE IN CUBIC FEET PER SECOND OF THE WINTON HYDRO-ELECTRIC PLANT—Concluded

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1.....	832	945	690	420	5576	3261	1198	820	392	204	204	230
2.....	589	710	250	420	5502	3226	1212	948	404	50	204	233
3.....	707	544	213	35	5502	2895	1044	948	384	204	204	233
4.....	792	852	247	454	5537	1780	983	677	260	204	204	0
5.....	786	956	133	349	5553	1492	1318	396	336	205	204	148
6.....	788	956	0	353	5553	1714	1457	396	582	205	0	176
7.....	786	956	247	361	5517	1895	1786	508	726	205	204	189
8.....	784	954	348	361	5517	1619	1682	768	786	205	204	168
9.....	203	954	348	360	5517	1177	1452	768	786	0	204	140
10.....	646	952	254	35	5497	1207	981	768	744	204	204	135
11.....	956	952	202	320	5511	1207	1318	768	236	204	204	0
12.....	952	573	198	356	5527	736	1298	788	648	204	204	140
13.....	880	25	35	356	5379	1073	952	788	948	204	0	148
14.....	952	640	170	196	5288	1212	1143	588	784	204	204	205
15.....	932	952	203	200	5230	1207	1457	608	737	204	204	205
16.....	590	952	205	200	5039	1207	1526	786	932	0	576	205
17.....	956	952	203	576	5036	1202	1444	786	784	204	968	161
18.....	948	948	289	1162	4896	1202	1896	786	404	204	239	0
19.....	952	948	252	2152	4671	746	2018	786	692	204	116	148
20.....	952	944	118	2994	4452	1086	2013	786	788	204	0	228
21.....	952	936	256	4264	4198	1212	2008	232	784	210	113	231
22.....	950	645	294	3926	3780	1212	2008	600	784	204	112	645
23.....	675	289	313	4766	2884	1212	2003	786	784	0	98	686
24.....	950	306	312	4360	2433	1212	1647	786	784	204	34	418
25.....	950	691	309	5806	2615	1251	1810	786	324	204	89	0
26.....	950	696	299	6027	3190	1210	1563	786	322	203	89	0
27.....	950	645	35	5610	2942	2216	1433	786	404	204	0	148
28.....	948	690	306	5626	3047	2324	1433	376	556	258	89	148
29.....	356	.....	341	5595	3093	2147	1288	340	203	204	89	148
30.....	0	.....	345	5595	3491	1511	948	410	203	35	89	148
31.....	250	.....	414	.....	3347	.....	476	408	.....	204	.....	148
Mean.....	772	770	252	2110	4560	1560	1450	670	583	176	178	188

SUMMARY OF MEAN MONTHLY DISCHARGE IN SECOND-FEET OF KAWISHIWI RIVER NEAR WINTON, MINN.

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Month	1913	1914	1915	1916	1917	1918	1919
January.....	166	364	224	515	300	.....	181
February.....	137	276	201	395	190	.....	151
March.....	131	167	176	330	145	.....	128
April.....	520	241	218	2130	84	.....	833
May.....	1930	2410	.....	3920	416	.....	1770
June.....	2290	.....	2260	2190	1260	.....	1100
July.....	1060	.....	1750	925	1330	.....	314
August.....	357	789	560	547	788	.....	52
September.....	367	907	.....	1170	650	.....	38
October.....	968	733	1010	830	.....	141	.....
November.....	807	645	1310	920	.....	57	.....
December.....	613	224	745	479	.....	165	.....

SUMMARY OF MEAN MONTHLY DISCHARGE IN SECOND-FEET OF THE WINTON HYDRO-ELECTRIC POWER PLANT ON KAWISHIWI RIVER NEAR WINTON, MINN.

RECORDS OF MINNESOTA POWER AND LIGHT CO.

Month	1923	1924	1925	1926	1927
January.....	.....	262	528	528	772
February.....	.....	163	285	225	770
March.....	.....	103	290	284	252
April.....	.....	19	45	285	2110
May.....	.....	111	238	1110	4560
June.....	.....	599	721	1190	1560
July.....	.....	404	678	1320	1450
August.....	.....	352	380	760	670
September.....	.....	270	702	552	780
October.....	.....	66	1490	1220	1500
November.....	.....	9	734	536	895
December.....	.....	91	605	722	811

## BASSWOOD LAKE

*Metering Section.*—About  $\frac{1}{4}$  mile below the Upper Falls at the head of a small gorge and identified on both sides by blazed trees: Miscellaneous meterings only.

*Gauge.*—Staff gauge at Hoffmann Cabin, Jackfish Bay, read daily from August, 1925, to February, 1927, by C. J. Hoffman. From February, 1927, to March, 1928, daily readings were taken on the staff gauge at the U.S. Engineer Camp, Jackfish Bay, by U.S. Engineers.

*Drainage Area.*—1,800 square miles.

*Discharge Measurements.*—From boat.

*Records Available.*—September 11, 1922, to September 1, 1927.

*Extremes of Stages Recorded.*—Maximum—May 26, 1927 (g.h. 1303.06), 4693 c.f.s. Minimum—September 23, 1923 (g.h. 1300.86), \*441 c.f.s.

\*(Note: g.h. probably high as a result of artificial rock dam at head of upper falls.)

*Datum.*—B.M. on King's Point. Elevation 1302.86.

(NOTE.—B.M. established by Canadian Engineers and elevation determined from B.M. at head of Basswood Falls. Elevation 1303.82.)

## BASSWOOD LAKE OUTLET—DISCHARGE MEASUREMENTS

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE AND UNITED STATES  
CORPS OF ENGINEERS

Date	Hydrographer	Width	Area of section	Mean velocity	Water level, I.B.C. datum	Discharge	Remarks
Sept. 11, 1922.....	Allen.....	105	626	1.08	1301.23	676	Ice conditions. “
Feb. 7, 1923.....	“.....	88	500	0.49	.....	244	
Mar. 24, 1923.....	“.....	83	470	0.46	.....	218	
Sept. 23, 1923.....	Hogarth.....	100	660	0.67	1300.86	441	
Mar. 4, 1924.....	Allen.....	77	367	0.39	.....	145	
Oct. 1, 1925.....	Hogarth.....	140	1250	0.59	1300.17	738	
Mar. 12, 1926.....	O'Rourke.....	166	1159	0.53	1299.75	610	
Feb. 4, 1927.....	Tennstrom.....	135	984	1.01	1300.45	989	
Mar. 28, 1927.....	Magie.....	125	800	0.65	1300.13	517	
May 26, 1927.....	“.....	185	2109	2.23	1303.06	4693	
June 11, 1927.....	“.....	170	1650	0.69	1301.90	2397	
Aug. 8, 1927.....	Tennstrom.....	140	1236	0.89	1300.90	1097	
Sept. 1, 1927.....	“.....	110	806	1.06	1300.47	856	

## DISCHARGE RATING TABLE FOR OUTLET OF BASSWOOD LAKE

Gauge height	Discharge	Difference	Gauge height	Discharge	Difference	Gauge height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1299.00.....	360	20	1301.00.....	1250	100	1303.00.....	4520	260
99.10.....	380	25	01.10.....	1350	100	03.10.....	4780	260
99.20.....	405	25	01.20.....	1450	120	03.20.....	.....	.....
99.30.....	430	30	01.30.....	1570	130	03.30.....	.....	.....
99.40.....	460	30	01.40.....	1700	130	03.40.....	.....	.....
99.50.....	490	35	01.50.....	1830	130	03.50.....	.....	.....
99.60.....	525	35	01.60.....	1960	140	03.60.....	.....	.....
99.70.....	560	40	01.70.....	2100	150	03.70.....	.....	.....
99.80.....	600	40	01.80.....	2250	150	03.80.....	.....	.....
99.90.....	640	40	01.90.....	2400	170	03.90.....	.....	.....
1300.00.....	680	45	1302.00.....	2570	170	1304.00.....	.....	.....
00.10.....	725	45	02.10.....	2740	170	04.10.....	.....	.....
00.20.....	770	50	02.20.....	2910	170	04.20.....	.....	.....
00.30.....	820	50	02.30.....	3080	170	04.30.....	.....	.....
00.40.....	870	50	02.40.....	3250	180	04.40.....	.....	.....
00.50.....	920	50	02.50.....	3430	200	04.50.....	.....	.....
00.60.....	970	60	02.60.....	3630	200	04.60.....	.....	.....
00.70.....	1030	70	02.70.....	3830	220	04.70.....	.....	.....
00.80.....	1100	70	02.80.....	4050	230	04.80.....	.....	.....
00.90.....	1170	80	02.90.....	4280	240	04.90.....	.....	.....

BASSWOOD LAKE--WATER LEVELS

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to sea-level datum--King's Point Gauge.]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1				1299-18	1299-35	1299-28						
2				99-19	99-34	99-34						
3				99-19	99-34	99-37						
4			1299-19	99-19	99-35	99-41						
5				99-18	99-35	99-51						
6				99-17	99-35	99-58						
7			99-19	99-15	99-34	99-58						
8			99-19	99-21	99-32	99-67						
9			99-19	99-19	99-31	99-68						
10			99-18	99-18	99-30	99-69						
11			99-17	99-18	99-29	99-69						
12			99-16	99-19	99-29	99-68						
13			99-15	99-19	99-30	99-68						
14			99-14	99-19	99-30	99-69						
15			99-12	99-20	99-32	99-70						
16			99-12	99-24	99-32	99-75						
17			99-12	99-28	99-33	99-80						
18			99-11	99-29	99-34	99-82						
19			99-10	99-27	99-33	99-88						
20			99-09	99-29	99-31	99-89						
21			99-09	99-29	99-30	99-91						
22			99-09	99-28	99-29	99-91						
23			99-10	99-29	99-28	99-95						
24			99-10	99-30	99-27	99-95						
25			99-13	99-34	99-27	99-95						
26			99-17	99-34	99-28	99-94						
27			99-18	99-34	99-28	99-92						
28				99-34	99-29	99-91						
29				99-35	99-28	99-90						
30			99-19	99-36	99-27	99-89						
31			99-18		99-26							
1925*												
1									1299-57	1299-95	1300-15	1299-95
2									99-65	1300-10	00-15	99-95
3									99-65	00-12	00-12	99-95
4									99-70	00-15	00-12	1300-05
5									99-73	00-25	00-05	00-07
6									99-65	00-37	00-05	00-13
7									99-65	00-50	00-05	00-15
8									99-65	00-60	00-05	00-15
9									99-65	00-65	00-03	00-15
10									99-60	00-70	00-00	00-12
11									99-55	00-70	1299-97	00-10
12									99-55	00-70	99-95	00-12
13									99-53	00-72	99-95	00-10
14									99-53	00-72	99-95	00-12
15									99-53	00-72	99-95	00-15
16									99-50	00-70	99-95	00-15
17									99-50	00-65	99-95	00-15
18									99-50	00-62	99-95	00-15
19									99-55	00-55	99-95	00-15
20								1299-85	99-57	00-55	99-95	00-15
21								99-75	99-60	00-53	99-95	00-15
22								96-65	99-60	00-45	99-93	00-15
23								99-70	99-57	00-40	99-90	00-15
24								99-70	99-55	00-35	99-90	00-13
25								99-70	99-55	00-33	99-90	00-12
26								99-65	99-60	00-25	99-90	00-10
27								99-65	99-62	00-25	99-88	00-07
28								99-65	99-65	00-23	99-88	00-05
29								99-65	99-70	00-20	99-88	00-02
30								99-65	99-85	00-15	99-92	00-00
31								99-65		00-15		00-00

\*Hoffman gauge, Jackman Bay.



## BASSWOOD LAKE—WATER LEVELS—Continued

## RECORDS OF UNITED STATES CORPS OF ENGINEERS

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1.	1300-00	1299-85	1299-55	1299-43	1299-95	1300-33	1300-85	1300-65	1300-10	1300-80	1300-98	1300-80
2.	00-00	99-83	99-55	99-40	1300-05	00-30	00-85	00-60	00-07	00-85	1301-05	00-78
3.	00-00	99-82	99-57	99-37	00-15	00-27	00-85	00-55	00-07	1301-05	1300-95	00-78
4.	00-02	99-81	99-60	99-35	00-25	00-25	00-87	00-55	00-07	01-10	00-90	00-75
5.	00-02	99-80	99-65	99-35	00-35	00-20	00-85	00-53	00-05	01-17	00-85	00-75
6.	00-00	99-80	99-67	99-35	00-45	00-15	00-85	00-55	00-03	01-25	00-85	00-70
7.	00-00	99-78	99-70	99-33	00-50	00-25	00-83	00-50	00-03	01-35	00-83	00-67
8.	00-00	99-75	99-70	99-30	00-53	00-30	00-90	00-45	00-00	01-37	00-80	00-67
9.	00-00	99-73	99-70	99-30	00-55	00-35	1301-05	00-40	00-05	01-35	00-77	00-67
10.	00-02	99-70	99-73	99-30	00-59	00-35	01-05	00-35	00-05	01-35	00-75	00-67
11.	00-02	99-67	99-75	99-30	00-61	00-35	01-03	00-33	00-05	01-35	00-75	00-67
12.	00-05	99-65	99-75	99-33	00-63	00-35	01-05	00-30	00-03	01-35	00-75	00-67
13.	00-05	99-63	99-75	99-35	00-63	00-37	01-05	00-30	00-03	01-30	00-73	00-70
14.	00-05	99-63	99-73	99-35	00-63	00-40	01-07	00-30	00-00	01-25	00-73	00-68
15.	00-05	99-60	99-73	99-35	00-61	00-40	01-07	00-30	1299-97	01-20	00-73	00-65
16.	00-05	99-57	99-75	99-35	00-59	00-43	01-10	00-30	1300-00	01-15	00-70	00-65
17.	00-05	99-55	99-73	99-35	00-57	00-45	01-15	00-32	00-00	01-17	00-73	00-67
18.	00-05	99-55	99-70	99-35	00-60	00-50	01-25	00-30	00-03	01-25	00-75	00-63
19.	00-02	99-53	99-67	99-38	00-63	00-55	01-30	00-27	00-05	01-22	00-73	00-65
20.	00-00	99-53	99-65	99-40	00-63	00-60	01-35	00-25	00-03	01-22	00-70	00-65
21.	1299-97	99-53	99-63	99-43	00-61	00-65	01-33	00-25	00-10	01-22	00-67	00-65
22.	99-95	99-53	99-63	99-43	00-59	00-70	01-25	00-20	00-15	01-22	00-70	00-63
23.	99-95	99-50	99-63	99-45	00-57	00-80	01-23	00-15	00-15	01-22	00-70	00-63
24.	99-95	99-47	99-63	99-45	00-55	00-85	01-15	00-10	00-17	01-20	00-70	00-63
25.	99-93	99-47	99-60	99-45	00-50	00-90	01-10	00-10	00-25	01-15	00-75	00-63
26.	99-93	99-47	99-57	99-47	00-45	00-90	01-00	00-10	00-30	01-12	00-75	00-60
27.	99-90	99-50	99-55	99-50	00-43	00-90	1300-90	00-07	00-37	01-08	00-75	00-57
28.	99-87	99-53	99-50	99-60	00-40	00-85	00-85	00-07	00-50	01-05	00-83	00-57
29.	99-85		99-47	99-70	00-35	00-85	00-83	00-07	00-65	01-05	00-80	00-55
30.	99-85		99-45	99-83	00-35	00-87	00-75	00-07	00-75	01-00	00-83	00-55
31.	99-85		99-43		00-35		00-70	00-10		01-00		00-55
1927												
1.	1300-55	1300-47	1300-43	1300-11	1303-40	1302-75	1301-43	1301-23	1300-47	1300-26	1299-75	1299-63
2.	00-57	00-45	00-42	00-11	03-51	02-73	01-45	01-23	00-43	00-26	99-73	99-64
3.	00-53	00-45	00-42	00-11	03-57	02-68	01-43	01-15	00-41	00-25	99-72	99-63
4.	00-55	00-45	00-39	00-11	03-63	02-58	01-40	01-09	00-39	00-24	99-70	99-62
5.	00-55	00-45	00-35	00-15	03-68	02-43	01-37	01-05	00-37	00-23	99-70	99-63
6.	00-55	00-47	00-33	00-18	03-73	02-33	01-36	01-01	00-37	00-22	99-68	99-62
7.	00-53	00-47	00-31	00-18	03-77	02-22	01-38	1300-95	00-36	00-20	99-67	99-62
8.	00-53*	00-52	00-29	00-22	03-79	02-13	01-40	00-90	00-34	00-19	99-66	99-62
9.	00-55	00-51	00-27	00-24	03-81	02-05	01-43	00-87	00-33	00-16	99-66	99-61
10.	00-53	00-51	00-25	00-28	03-83	1301-96	01-42	00-86	00-34	00-14	99-65	99-60
11.	00-50	00-50	00-22	00-29	03-85	01-90	01-41	00-85	00-35	00-12	99-64	99-60
12.	00-48	00-49	00-18	00-30	03-87	01-81	01-40	00-83	00-37	00-09	99-63	99-59
13.	00-47	00-48	00-15	00-33	03-85	01-73	01-38	00-81	00-37	00-05	99-62	99-59
14.	00-47	00-47	00-16	00-43	03-83	01-68	01-35	00-78	00-37	00-03	99-61	99-59
15.	00-50	00-45	00-17	00-48	03-81	01-61	01-37	00-75	00-37	00-00	99-61	99-59
16.	00-47	00-53	00-17	00-53	03-78	01-53	01-35	00-69	00-35	1299-96	99-60	99-59
17.	00-47	00-43	00-15	00-60	03-73	01-50	01-34	00-68	00-35	99-91	99-61	99-60
18.	00-47	00-43	00-15	00-64	03-65	01-44	01-33	00-65	00-36	99-87	99-63	99-61
19.	00-47	00-44	00-14	00-93	03-61	01-43	01-34	00-63	00-37	99-83	99-64	99-61
20.	00-47	00-44	00-14	1301-33	03-53	01-43	01-34	00-62	00-35	99-80	99-65	99-60
21.	00-50	00-45	00-13	01-53	03-48	01-44	01-35	00-61	00-34	99-81	99-66	99-59
22.	00-50	00-46	00-15	01-78	03-38	01-40	01-38	00-60	00-33	99-79	99-67	99-60
23.	00-50	00-45	00-17	1302-03	03-33	01-38	01-39	00-54	00-33	99-78	99-68	99-60
24.	00-48	00-45	00-16	02-27	03-26	01-33	01-40	00-53	00-32	99-78	99-68	99-61
25.	00-48	00-46	00-15	02-53	03-13	01-33	01-43	00-53	00-32	99-76	99-67	99-63
26.	00-48	00-44	00-13	02-73	03-06	01-31	01-43	00-52	00-31	99-77	99-65	99-64
27.	00-50	00-43	00-11	02-88	1302-98	01-30	01-43	00-53	00-30	99-74	99-64	99-65
28.	00-52	00-43	00-11	1303-06	02-90	01-36	01-38	00-57	00-30	99-74	99-63	99-66
29.	00-52		00-10	03-21	02-83	01-40	01-35	00-54	00-28	99-75	99-64	99-66
30.	00-52		00-10	03-33	02-82	01-42	01-33	00-52	00-27	99-75	99-63	99-66
31.	00-50		00-11		02-80		01-31	00-50		99-74		99-66

\*Water elevation determined from United States Engineer Camp Gauge after February 8, 1927.



## REPORT OF ENGINEERS

MEAN DAILY DISCHARGE IN SECOND-FEET—OUTLET OF BASSWOOD LAKE—  
INTERNATIONAL BOUNDARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1				400	445	425						
2				402	442	442						
3				402	442	451						
4			402	402	445	463						
5			402	400	445	494						
6			402	398	445	518						
7			402	393	442	518						
8			402	408	436	550						
9			402	402	433	553						
10			400	400	430	556						
11			398	400	427	556						
12			395	402	427	553						
13			393	402	430	553						
14			390	402	430	556						
15			385	405	436	560						
16			385	415	436	580						
17			385	425	439	600						
18			383	427	442	608						
19			383	423	439	632						
20			378	427	433	636						
21			378	427	430	644						
22			378	425	427	644						
23			380	427	425	660						
24			380	430	422	660						
25			388	442	422	660						
26			398	442	425	656						
27			400	442	425	648						
28			400	442	427	644						
29			402	445	425	640						
30			402	448	422	636						
31			400		420							
Mean			393	417	433	577						
1925												
1									515	660	748	660
2									543	725	748	660
3									543	734	734	660
4									560	748	734	703
5									572	795	703	712
6									543	855	703	739
7									543	920	703	748
8									543	970	703	748
9									543	1000	694	748
10									525	1030	680	734
11									508	1030	668	725
12									508	1030	660	734
13									500	1040	660	725
14									500	1040	660	734
15									500	1040	660	748
16									490	1030	660	748
17									490	1000	660	748
18									490	982	660	748
19									508	930	660	748
20								620	515	930	660	748
21								580	525	935	660	748
22								543	525	895	652	748
23								560	515	870	640	748
24								560	508	845	640	739
25								560	508	835	640	734
26								543	525	795	640	725
27								543	532	795	632	712
28								543	543	785	632	703
29								543	560	770	632	689
30								543	620	748	648	680
31								543		748		680
Mean								555	527	888	672	723

MEAN DAILY DISCHARGE IN SECOND-FEET—OUTLET OF BASSWOOD LAKE—INTERNATIONAL BOUNDARY

Day.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1.	680	620	508	472	660	835	1140	1000	725	1100	1230	1100
2.	680	612	508	460	703	820	1140	970	712	1140	1300	1090
3.	680	608	514	451	748	805	1140	945	712	1300	1210	1090
4.	689	604	525	445	795	795	1150	945	712	1350	1170	1070
5.	689	600	543	445	845	770	1140	935	703	1420	1140	1070
6.	680	600	550	445	895	748	1140	945	694	1510	1140	1030
7.	680	592	560	439	920	795	1120	920	694	1640	1120	1010
8.	680	580	560	430	935	820	1170	895	680	1660	1100	1010
9.	680	572	560	430	945	845	1300	870	703	1640	1080	1010
10.	689	560	572	430	965	845	1300	845	703	1640	1070	1010
11.	689	550	580	430	976	845	1280	835	703	1640	1070	1010
12.	703	543	580	439	988	845	1300	820	694	1640	1070	1010
13.	703	536	580	445	988	855	1300	820	694	1570	1050	1030
14.	703	536	572	445	988	870	1320	820	680	1510	1050	1020
15.	703	525	572	445	976	870	1320	820	668	1450	1050	1000
16.	703	514	580	445	965	885	1350	820	680	1400	1030	1000
17.	703	508	572	445	955	895	1400	830	680	1420	1050	1010
18.	703	508	560	445	970	920	1510	820	694	1510	1070	988
19.	689	501	550	454	988	945	1570	805	703	1470	1050	1000
20.	680	501	543	460	988	970	1640	795	694	1470	1030	1000
21.	668	501	536	469	976	1010	1610	795	725	1470	1010	1000
22.	660	501	536	469	965	1030	1510	770	748	1470	1030	988
23.	660	490	536	475	955	1100	1490	748	748	1470	1030	988
24.	660	481	536	475	945	1140	1400	725	757	1450	1030	988
25.	652	481	525	475	920	1170	1350	725	795	1400	1070	988
26.	652	481	514	481	895	1170	1250	725	820	1370	1070	970
27.	640	490	508	490	885	1170	1170	712	855	1330	1070	955
28.	628	501	490	525	870	1140	1140	712	920	1300	1120	955
29.	620	.....	481	560	845	1140	1120	712	1000	1300	1100	945
30.	620	.....	475	612	845	1150	1070	712	1070	1250	1120	945
31.	620	.....	469	.....	845	.....	1030	725	.....	1250	.....	945
Mean.....	673	520	539	464	908	940	1290	823	746	1440	1090	1010
1927												
1.	945	905	885	730	5560	3940	1740	1490	905	800	580	536
2.	955	895	880	730	5850	3900	1770	1490	885	800	572	539
3.	935	895	880	730	6000	3790	1740	1400	875	795	568	536
4.	945	895	865	730	6160	3580	1700	1340	865	790	560	532
5.	945	895	845	748	6290	3300	1660	1300	855	785	560	536
6.	945	895	835	761	6420	3130	1650	1260	855	780	553	532
7.	935	895	825	761	6520	2940	1670	1210	850	770	550	532
8.	935	930	815	780	6570	2790	1700	1170	840	765	546	532
9.	945	925	805	790	6630	2650	1740	1150	835	752	546	529
10.	935	925	795	810	6680	2500	1730	1140	840	743	543	525
11.	920	920	780	815	6730	2400	1710	1140	845	734	539	525
12.	910	915	761	820	6780	2270	1700	1120	855	720	536	521
13.	905	910	748	833	6730	2150	1670	1110	855	703	532	521
14.	905	905	752	885	6680	2070	1640	1090	855	694	529	521
15.	920	895	757	910	6630	1970	1660	1070	855	680	529	521
16.	905	885	757	935	6550	1870	1640	1020	845	664	525	521
17.	905	885	748	970	6420	1830	1620	1020	845	644	529	525
18.	905	885	748	990	6210	1750	1610	1000	850	628	536	529
19.	905	890	743	1190	6110	1740	1620	988	855	612	539	529
20.	905	890	743	1610	5900	1740	1620	982	845	600	543	525
21.	920	895	739	1870	5770	1750	1640	976	840	604	546	521
22.	920	900	748	2220	5510	1700	1670	970	835	596	550	525
23.	920	895	757	2620	5380	1670	1690	940	835	592	553	525
24.	910	895	752	3030	5200	1610	1700	935	830	592	553	529
25.	910	900	748	3490	4860	1610	1740	935	830	584	550	536
26.	910	890	739	3900	4680	1580	1740	930	825	588	543	539
27.	920	885	730	4230	4470	1570	1740	935	820	576	539	543
28.	930	885	730	4680	4280	1650	1670	955	820	576	536	546
29.	930	.....	725	5070	4120	1700	1640	940	810	580	539	546
30.	930	.....	725	5380	4100	1730	1610	930	805	580	536	546
31.	920	.....	730	.....	4050	.....	1580	920	.....	576	.....	546
Mean.....	923	899	777	1801	5800	2300	1680	1090	845	674	545	531

## REPORT OF ENGINEERS

MEAN DAILY DISCHARGE IN SECOND-FEET—OUTLET OF BASSWOOD LAKE—INTERNATIONAL  
BOUNDARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1928												
1.....	546	525	584									
2.....	543	525	588									
3.....	539	529	592									
4.....	543	532	596									
5.....	550	536	600									
6.....	564	539	604									
7.....	568	546	608									
8.....	572	550	608									
9.....	572	550	608									
10.....	568	553	604									
11.....	568	560	604									
12.....	572	556	604									
13.....	572	556	604									
14.....	572	556	600									
15.....	572	556	600									
16.....	568	556										
17.....	568	556										
18.....	564	553										
19.....	556	556										
20.....	553	556										
21.....	550	556										
22.....	546	560										
23.....	543	564										
24.....	539	568										
25.....	539	572										
26.....	536	580										
27.....	536	580										
28.....	532	580										
29.....	532	584										
30.....	529											
31.....	529											
Mean.....	553	555	600									

BASSWOOD LAKE—WATER LEVELS  
INTERNATIONAL BOUNDARY COMMISSION GAUGE RECORDS

Lake	Elevation, I.B.C. datum	Date	Lake	Elevation, I.B.C. datum	Date
Basswood.....	1302-7	June 23, 1915	Basswood.....	1302-5	June 1, 1916
".....	02-7	24, 1915	".....	02-5	2, 1916
".....	00-4	Sept. 21, 1915	".....	02-4	3, 1916
".....	00-4	22, 1915	".....	02-4	4, 1916
".....	00-3	23, 1915	".....	02-3	5, 1916
".....	00-3	27, 1915	".....	02-2	6, 1916
".....	00-2	28, 1915	".....	02-1	7, 1916
".....	00-4	Oct. 8, 1915	".....	02-0	10, 1916
".....	00-4	9, 1915	".....	01-9	11, 1916
".....	00-4	10, 1915	".....	01-9	12, 1916
".....	03-1	May 27, 1916	".....	01-9	13, 1916
".....	03-0	28, 1916	".....	00-5	July 25, 1916
".....	02-9	29, 1916	".....	* 00-86	Sept. 23, 1923
".....	02-8	30, 1916	".....	* 00-87	27, 1923
".....	02-7	31, 1916			

\* Canadian Engineers.

CROOKED LAKE

Gauge.—Staff gauge (1) at lower end of Crooked Lake near Canadian Ranger's cabin read daily by U.S. Engineers from July 15, 1927, to August 3, 1927.

Staff gauge (2) at U.S. Forest Service boathouse at upper end, read daily by U.S. Engineers from August 5, 1927, to October 30, 1927.

Datum.—(1) United States and Canada Boundary Survey Reference Monument No. 656. Elevation 1251.24. (2) United States and Canada Boundary Survey Reference Monument No. 760. Elevation 1251.45.

CROOKED LAKE—WATER LEVELS

RECORDS OF UNITED STATES CORPS OF ENGINEERS

[Elevations refer to sea-level datum. Gauge located near Canadian Ranger's Cabin.]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1								1248.63	1247.49	1247.12		
2								48.58	47.48	47.13		
3								48.53	47.43	47.13		
4								*	47.37	47.11		
5								48.43	47.33	47.08		
6								48.43	47.35	47.06		
7								48.32	47.33	47.03		
8								48.32	47.31	46.99		
9								48.21	47.28	46.95		
10								48.15	47.26	46.92		
11								48.13	47.23	46.89		
12								48.08	47.28	46.86		
13								48.02	47.27	46.83		
14								47.96	47.24	46.82		
15							1248.77	47.91	47.23	46.80		
16								48.78	47.84	47.23	46.79	
17								48.78	47.81	47.21	46.78	
18								48.74	47.78	47.21	46.74	
19								48.72	47.75	47.21	46.73	
20								48.72	47.71	47.21	46.72	
21								48.70	47.71	47.21	46.70	
22								48.70	47.72	47.20	46.68	
23								48.70	47.63	47.18	46.64	
24								48.70	47.58	47.16	46.62	
25								48.70	47.55	47.15	46.59	
26								48.71	47.53	47.11	46.57	
27								48.72	47.52	47.12	46.55	
28								48.69	47.51	47.12	46.53	
29								48.68	47.53	47.12	46.50	
30								48.67	47.50	47.11		
31								48.65	47.51			

\*Moved camp to Lower Basswood Falls. Gauge nailed to U.S.F.S. boathouse.

CROOKED LAKE—WATER LEVELS

INTERNATIONAL BOUNDARY COMMISSION GAUGE RECORDS

Lake	Elevation, I.B.C. datum	Date	Lake	Elevation, I.B.C. datum	Date
Gauge No. 1. At lower end of Crooked Lake near R. M. 656.	1248.59 48.95	June 22, 1915 25, 1925	Gauge No. 6. In narrows near southeast end of Crooked Lake, below a rapids near Moose Bay.	48.8 49.2 49.4 49.5 49.7	June 19, 1915 21, 1915 22, 1915 23, 1915 24, 1915
Gauge No. 2. Below rapids at narrows near middle of Crooked Lake.	48.35 48.4 48.6 48.7 48.8 46.8	22, 1915 23, 1915 24, 1915 25, 1915 27, 1915 Aug. 16, 1915	Gauge No. 7. In narrows near southeast end of Crooked Lake above a rapids near Moose Bay.	49.0 49.5 49.7 49.8 50.0	19, 1915 21, 1915 22, 1915 23, 1915 24, 1915
Gauge No. 3. Above rapids at narrows near middle of Crooked Lake.	49.0 49.1 49.3 49.5	June 22, 1915 23, 1915 24, 1915 27, 1915	Gauge No. 8. At a small island in narrows at southeast end of Crooked Lake, below "Last Falls" and at outlet of Basswood River.	48.9 49.1 49.6 49.8 49.9 50.2 46.92 46.91	18, 1915 19, 1915 21, 1915 22, 1915 23, 1915 24, 1915 Sept. 18, 1923 23, 1923
Gauge No. 4. In narrows of Crooked Lake below a rapids.	49.2 49.3 49.6	22, 1915 23, 1915 24, 1915		47.46 47.39	June 8, 1926 Oct. 3, 1927
Gauge No. 5. In narrows of Crooked Lake above a rapids.	49.3 49.4 49.7	22, 1915 23, 1915 24, 1915			

## LAC LA CROIX—NAMAKAN RIVER—OUTLET OF LAC LA CROIX

*Location.*—Above Snake Falls.

*Gauge.*—Metering station rated to Lac la Croix Gauge.

*Drainage Area.*—5,000 square miles.

*Discharge Measurements.*—From boat.

*Records Available.*—August, 1921, to December 31, 1927.

*Extremes of Stage Recorded.*—Maximum, May 20, 1927 (g.h. 1189.77), 16,700 sec. ft.; Minimum—February-April, 1924 (g.h. 1181.50), 535 sec. ft.

*Datum.*—United States and Canada Boundary Survey. Reference Monument No. 494. Elevation 1196.38.

## LAC LA CROIX GAUGES

*Location.*—At Beatty's Portage.

*Gauge.*—Staff, read daily.

*Records Available.*—August 22, 1921, to December 31, 1927.

*Datum.*—United States and Canada Boundary Survey. Reference Monument No. 494. Elevation 1196.38.

*Location.*—At Williamson's cabin near outlet of Lac la Croix.

*Gauge.*—Staff, read daily.

*Records Available.*—October 1, 1926, to December 31, 1927.

*Datum.*—United States and Canada Boundary Survey referred to bench mark elevation 1190.18.

DISCHARGE MEASUREMENTS OF NAMAKAN RIVER AT OUTLET OF LAC LA CROIX, ONT.  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height Lake	Discharge	Remarks
		Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	
1921							
Aug. 21.....	C. O. Allen.....	448	3260	0.74	1183.35	2410	
21.....	".....	448	3260	0.72	83.35	2320	
1922							
June 4.....	R. F. Smallian.....	482	4440	1.65	86.03	7330	
Sept. 7.....	C. O. Allen.....	455	3040	0.64	83.01	1960	
1923							
Jan. 31.....	C. O. Allen.....	420	2650	0.34	82.08	911	
Mar. 15.....	".....	410	2600	0.33	82.03	847	
Aug. 20.....	B. B. Hogarth.....	450	2700	0.62	82.91	1670	
28.....	".....	438	2700	0.62	82.79	1660	
28.....	".....	438	2710	0.59	82.79	1610	
Sept. 8.....	J. T. Rose.....	448	2730	0.62	82.81	1680	
1924							
Mar. 9.....	C. O. Allen.....	375	1910	0.26	81.42	497	
9.....	".....	375	1910	0.27	81.42	516	
1925							
May 2.....	C. O. Allen.....	460	3300	0.92	83.85	3040	
June 13.....	".....	468	3590	1.14	84.39	4060	
July 30.....	".....	459	3310	0.81	83.60	2680	
Oct. 13.....	B. B. Hogarth.....	430	2890	0.49	82.65	1400	

DISCHARGE MEASUREMENTS OF NAMAKAN RIVER AT OUTLET OF  
LAC LA CROIX, ONT.—*Concluded*

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height Lake	Dis-charge	Remarks
		Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	
1926							
Feb. 17.....	C. O. Allen.....	425	2840	0.46	82.55	1300	
Mar. 24.....	".....	417	2760	0.42	82.37	1150	Ice conditions.
June 5.....	J. T. Rose.....	519	3220	1.01	84.12	3250	Ice conditions.
July 16.....	".....	500	3920	1.51	85.54	5900	
Aug. 14.....	".....	497	3480	1.19	84.69	4140	
Sept. 14.....	".....	486	3110	0.92	83.87	2880	
1927							
May 28.....	J. T. Rose.....	513	5570	2.72	89.26	15200	
29.....	".....	58	269	0.98	89.15	263	H.W. channel.
Total.....						15500	
June 12.....	C. L. Clark.....	507	4910	2.26	87.77	11100	
12.....	".....	16	180	0.30	87.77	54	H.W. channel.
Total.....						11200	
June 30.....	C. L. Clark.....	504	4270	1.83	86.32	7810	

NOTE.—Elevations refer to sea-level datum.

DISCHARGE TABLE FOR NAMAKAN RIVER AT OUTLET OF LAC LA CROIX TO LAC LA CROIX  
GAUGES

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1181.00	315	35	1183.00	1820	120	1185.00	4830	200	1187.00	9500	250	1189.00	14560	260
81.10	350	40	83.10	1940	120	85.10	5030	210	87.10	9750	250	89.10	14820	260
81.20	390	45	83.20	2060	120	85.20	5240	210	87.20	10000	250	89.20	15080	270
81.30	435	45	83.30	2180	130	85.30	5450	220	87.30	10250	250	89.30	15350	270
81.40	485	50	83.40	2310	130	85.40	5670	220	87.40	10500	250	89.40	15620	270
81.50	535	50	83.50	2440	130	85.50	5900	230	87.50	10750	250	89.50	15900	280
81.60	585	55	83.60	2570	140	85.60	6130	240	87.60	11000	250	89.60	16180	280
81.70	640	60	83.70	2710	140	85.70	6370	240	87.70	11250	250	89.70	16460	280
81.80	700	65	83.80	2850	140	85.80	6610	240	87.80	11500	250	89.80	16750	290
81.90	765	70	83.90	2990	140	85.90	6850	240	87.90	11750	250	89.90	.....	.....
1182.00	835	75	1184.00	3130	150	1186.00	7090	240	1188.00	12000	250	1190.00	.....	.....
82.10	910	90	84.10	3280	160	86.10	7330	240	88.10	12250	250	90.10	.....	.....
82.20	1000	90	84.20	3440	160	86.20	7570	240	88.20	12500	250	90.20	.....	.....
82.30	1090	100	84.30	3600	160	86.30	7810	240	88.30	12750	250	90.30	.....	.....
82.40	1190	100	84.40	3760	170	86.40	8050	240	88.40	13000	250	90.40	.....	.....
82.50	1290	100	84.50	3930	170	86.50	8290	240	88.50	13260	260	90.50	.....	.....
82.60	1390	100	84.60	4100	180	86.60	8530	240	88.60	13520	260	90.60	.....	.....
82.70	1490	100	84.70	4280	180	86.70	8770	240	88.70	13780	260	90.70	.....	.....
82.80	1600	110	84.80	4460	180	86.80	9010	240	88.80	14040	260	90.80	.....	.....
82.90	1710	110	84.90	4640	190	86.90	9250	250	88.90	14300	260	90.90	.....	.....

The above table is not applicable for ice conditions. It is based on all discharge measurements made up to date.



## REPORT OF ENGINEERS

WATER LEVELS—LAC LA CROIX—AT BEATTY'S PORTAGE  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1									1183-15	1182-85	1182-40	1182-10
2									83-10	82-85	82-40	82-10
3									83-10	82-83	82-40	82-10
4									83-08	82-82	82-40	82-00
5									83-05	82-80	82-30	82-00
6									83-04	82-80	82-30	82-00
7									83-04	82-78	82-30	82-00
8									83-03	82-76	82-30	82-00
9									83-03	82-74	82-30	81-90
10									83-03	82-71	82-30	81-90
11									83-03	82-68	82-30	81-90
12									83-02	82-66	82-30	81-90
13									83-02	82-65	82-30	81-90
14									83-02	82-63	82-30	81-90
15									83-01	82-62	82-30	81-90
16									83-01	82-59	82-20	81-90
17									83-01	82-59	82-20	81-90
18									83-00	82-57	82-20	81-90
19									82-98	82-57	82-20	81-90
20									82-98	82-55	82-20	81-90
21									82-96	82-50	82-20	81-90
22								1183-35	82-96	82-50	82-20	81-80
23								83-32	82-95	82-50	82-10	81-80
24								83-30	82-95	82-50	82-10	81-80
25								83-27	82-95	82-50	82-10	
26								83-24	82-94	82-50	82-10	
27								83-20	82-92	82-50	82-10	
28								83-19	82-91	82-50	82-10	
29								83-18	82-89	82-40	82-10	
30								83-17	82-88	82-40	82-10	
31								83-15		82-40		
1922												
1	1181-80			1182-00	1184-60	1186-10		1183-60	1183-10	1182-60	1182-20	1182-00
2	81-80			82-30	85-70	86-10		83-60	83-10	82-60	82-20	82-00
3	81-80			82-40	84-80	86-00		83-60	83-10	82-60	82-20	82-00
4	81-80			82-40	84-90	86-00		83-60	83-10	82-60	82-20	82-00
5	81-80			82-40	85-00	86-00		83-60	83-10	82-60	82-20	82-00
6	81-80			82-40	85-20	86-00		83-60	83-10	82-50	82-20	82-00
7	81-80			82-40	85-90	85-90		83-60	83-10	82-50	82-20	82-00
8	81-80			82-50	85-80	85-80		83-50	83-10	82-50	82-20	82-00
9	81-80			82-50	85-60	85-60		83-50	83-10	82-50	82-20	82-00
10	81-70			82-60	85-60	85-60		83-50	83-00	82-50	82-20	82-00
11	81-70			82-60	85-60	86-10		83-50	82-90	82-50	82-20	82-00
12	81-70			82-60	85-90	85-90		83-50	82-90	82-40	82-20	82-00
13	81-70			82-60	85-80	85-80			82-90	82-40	82-20	82-00
14	81-70			82-60	85-70	85-70			82-90	82-40	82-10	82-00
15	81-70			82-70	85-60	85-60			82-90	82-40	82-10	82-00
16	81-70			82-80	85-50	85-50	1184-20		82-80	82-40	82-10	82-00
17	81-70			82-90	85-40	85-40	84-20		82-80	82-40	82-10	82-00
18	81-70			83-00	84-20	84-20	84-20		82-80	82-30	82-10	82-00
19	81-70			83-20	84-10	84-10	84-10		82-80	82-30	82-10	82-00
20	81-70			83-30	84-10	84-10	84-10		82-80	82-30	82-10	82-00
21	81-70			83-50	84-10	84-10	84-10		82-70	82-30	82-10	82-00
22	81-70			83-60	84-00	84-00	84-00		82-70	82-30	82-10	82-00
23	81-70			83-70	83-90	83-90	83-90		82-70	82-30	82-10	82-00
24	81-60			83-80	83-90	83-90	83-90		82-70	82-30	82-10	82-00
25	81-60			83-90	83-80	83-80	83-80		82-70	82-30	82-10	82-00
26	81-60			84-00	83-70	83-70	83-70		82-70	82-30	82-00	82-00
27	81-60			84-10	83-60	83-60	83-60		82-70	82-30	82-00	82-00
28	81-60			84-30	1186-40	83-70	83-70		82-70	82-30	82-00	82-00
29				84-40	86-40	83-70	83-70		82-70	82-20	82-00	82-00
30				84-60	86-30	83-70	83-70		82-70	82-20	82-00	82-00
31				86-20	86-20	83-60	83-60		82-70	82-20	82-00	82-00

RAINY LAKE INVESTIGATION

WATER LEVELS—LAC LA CROIX—AT BEATTY'S PORTAGE—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to sea-level datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1	1182-00	1182-00	1182-00	1182-00	1183-20	1183-90	1183-40	1183-00	1182-80	1182-50	1182-10	1181-80
2	82-00	82-00	82-00	82-00	83-30	83-90	83-40	83-00	82-80	82-50	82-10	81-80
3	82-00	82-00	82-00	82-00	83-40	83-90	83-30	83-00	82-80	82-50	82-10	81-80
4	82-00	82-00	82-00	82-00	83-50	83-90	83-30	83-00	82-80	82-50	82-00	81-80
5	82-00	82-00	82-00	82-00	83-60	83-90	83-30	83-00	82-80	82-50	82-00	81-80
6	82-00	82-00	82-00	82-00	83-60	83-90	83-30	83-00	82-80	82-50	82-00	81-80
7	82-00	82-00	82-00	82-00	83-60	83-80	83-20	83-00	82-80	82-50	82-00	81-80
8	82-00	82-00	82-00	82-00	83-70	83-80	83-20	83-00	82-80	82-40	82-00	81-80
9	82-00	82-00	82-00	82-00	83-70	83-80	82-20	83-00	82-70	82-40	82-00	81-80
10	82-00	82-00	82-00	82-00	83-80	83-80	83-20	83-00	82-70	82-40	82-00	81-70
11	82-00	82-00	82-00	82-00	83-80	83-80	83-20	83-00	82-70	82-40	82-20	81-70
12	82-00	82-00	82-00	82-00	83-80	83-80	83-20	83-00	82-70	82-40	82-20	81-70
13	82-00	82-00	82-00	82-00	83-90	83-70	83-20	82-90	82-70	82-40	81-90	81-70
14	82-00	82-00	82-00	82-00	83-90	83-70	83-20	82-90	82-70	82-40	81-90	81-70
15	82-00	82-00	82-00	82-00	83-90	83-70	83-10	82-90	82-70	82-30	81-90	81-70
16	82-00	82-00	82-00	82-00	83-90	83-60	83-10	82-90	82-70	82-30	81-90	81-70
17	82-00	82-00	82-00	82-00	83-90	83-60	83-10	82-90	82-70	82-30	81-90	81-70
18	82-00	82-00	82-00	82-00	83-90	83-60	83-10	82-90	82-70	82-30	81-90	81-70
19	82-00	82-00	82-00	82-00	83-90	83-50	83-10	82-90	82-70	82-30	81-90	81-70
20	82-00	82-00	82-00	82-10	83-90	83-50	83-10	82-90	82-70	82-30	81-90	81-70
21	82-00	82-00	82-00	82-20	83-90	83-50	83-10	82-90	82-70	82-30	81-90	81-70
22	82-00	82-00	82-00	82-30	83-90	83-50	83-00	82-80	82-70	82-30	81-90	81-70
23	82-00	82-00	82-00	82-40	83-90	83-50	83-00	82-80	82-60	82-20	81-90	81-70
24	82-00	82-00	82-00	82-50	83-90	.....	83-00	82-80	82-60	82-20	81-90	81-70
25	82-00	82-00	82-00	82-60	83-90	.....	83-00	82-80	82-60	82-20	81-80	81-70
26	82-00	82-00	82-00	82-70	83-90	.....	83-00	82-80	82-60	82-20	81-80	81-70
27	82-00	82-00	82-00	82-80	83-90	.....	83-00	82-80	82-60	82-20	81-80	81-70
28	82-00	82-00	82-00	82-90	83-90	.....	83-00	82-80	82-60	82-10	81-80	81-70
29	82-00	.....	82-00	83-00	83-90	.....	83-00	82-80	82-60	82-10	81-80	81-70
30	82-00	.....	82-00	83-10	83-90	.....	83-00	82-80	82-60	82-10	81-80	81-70
31	82-00	.....	82-00	.....	83-90	.....	83-00	82-80	.....	82-10	.....	81-70
1924												
1	1181-70	1181-60	1181-50	1181-50	.....	1182-50	1182-60	1182-40	1182-40	1183-40	1184-80	1183-99
2	81-70	81-60	81-50	81-50	.....	82-50	82-60	82-40	82-40	83-40	84-80	83-99
3	81-60	81-60	81-50	81-50	.....	82-50	82-60	82-40	82-40	83-40	84-70	83-89
4	81-60	81-50	81-50	81-50	1182-10	82-50	82-60	82-40	82-50	83-50	84-70	83-89
5	81-60	81-50	81-50	81-50	82-10	82-50	82-60	82-40	82-50	83-50	84-70	83-89
6	81-60	81-50	81-50	81-50	82-10	82-50	82-60	82-40	82-50	83-50	84-70	83-79
7	81-60	81-50	81-50	81-50	82-10	82-50	82-60	82-40	82-50	83-60	84-70	83-79
8	81-60	81-50	81-50	81-50	82-20	82-50	82-50	82-40	82-60	83-60	84-60	83-79
9	81-60	81-50	81-50	81-50	82-20	82-60	82-50	82-40	82-60	83-60	84-60	83-79
10	81-60	81-50	81-50	81-50	82-20	82-60	82-50	82-40	82-60	83-60	84-60	83-79
11	81-60	81-50	81-50	81-50	82-20	82-70	82-50	82-40	82-70	83-70	84-60	83-69
12	81-60	81-50	81-50	81-50	82-30	82-70	82-50	82-40	82-70	83-90	84-50	83-69
13	81-60	81-50	81-50	.....	82-30	82-70	82-50	82-40	82-80	83-90	84-50	83-69
14	81-60	81-50	81-50	.....	83-30	82-70	82-50	82-40	82-80	84-00	84-50	83-69
15	81-60	81-50	81-50	.....	82-30	82-70	82-50	82-40	82-90	84-20	84-40	83-59
16	81-60	81-50	81-50	.....	82-30	82-70	82-50	82-40	82-90	84-30	84-40	83-59
17	81-60	81-50	81-50	.....	82-40	82-80	82-50	82-40	82-90	84-40	84-40	83-59
18	81-60	81-50	81-50	.....	82-40	82-80	82-50	82-40	83-00	84-50	84-30	83-59
19	81-60	81-50	81-50	.....	82-40	82-80	82-40	82-40	83-00	84-60	84-30	83-59
20	81-60	81-50	81-50	.....	82-40	82-80	82-40	82-40	83-00	84-60	84-30	83-59
21	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-10	84-70	84-20	83-59
22	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-10	84-70	84-20	83-49
23	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-10	84-80	84-20	83-49
24	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-10	84-80	84-20	83-49
25	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-20	84-80	84-10	83-49
26	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-20	84-80	84-10	83-49
27	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-20	84-80	84-10	83-49
28	81-60	81-50	81-50	.....	82-50	82-80	82-40	82-40	83-30	84-80	84-10	83-49
29	81-60	81-50	81-50	.....	82-50	82-60	82-40	82-40	83-30	84-80	84-00	83-39
30	81-60	.....	81-50	.....	82-50	82-60	82-40	82-40	83-30	84-80	84-00	83-39
31	81-60	.....	81-50	.....	82-50	.....	82-40	82-40	84-80	.....	.....	83-39

## WATER LEVELS—LAC LA CROIX—AT BEATTY'S PORTAGE—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

(Elevations refer to Sea-level Datum)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	1183-38	1182-97		1182-67	1183-87	1183-77	1184-77	1183-64	1182-98	1182-57	1182-87	1182-87
2	83-38	82-97		82-67	83-88	83-77	84-77	83-63	82-97	82-57	82-87	82-87
3	83-38	82-97		82-77	83-87	83-77	84-77	83-58	82-96	82-57	82-87	82-87
4	83-38	82-97		82-77	83-87	83-77	84-77	83-56	82-94	82-57	82-87	82-87
5	83-28	82-97		82-77	83-87	83-87	84-67	83-52	82-92	82-57	82-87	82-87
6	83-28	82-97		82-77	83-97	83-97	84-67	83-66	82-90	82-57	82-87	82-87
7	83-28	82-97		82-77	83-97	84-07	84-57	83-53	82-88	82-57	82-87	82-87
8	83-28	82-97		82-87	83-97	84-17	84-57	83-55	82-87	82-57	82-87	82-87
9	83-28	82-97		82-87	83-97	84-17	84-47	83-56	82-85	82-57	82-87	82-87
10	83-28	82-97		82-87	83-97	84-27	84-47	83-58	82-83	82-57	82-87	82-87
11	83-28	82-87		82-97	83-97	84-37	84-37	83-35	82-82	82-57	82-87	82-87
12	83-28	82-87		82-97	83-97	84-37		83-34	82-80	82-57	82-87	82-87
13	83-28	82-87		82-97	83-97	84-37		83-30	82-76	82-67	82-87	82-87
14	83-18	82-87		83-07	83-97	84-47		83-28	82-74	82-67	82-87	82-87
15	83-18	82-87		83-07	83-97	84-47		83-28	82-70	82-67	82-87	82-87
16	83-18	82-87		83-07	83-97	84-57		83-27	82-68	82-67	82-87	82-87
17	83-18	82-87		83-17	83-97	84-57		83-29	82-67	82-67	82-87	82-87
18	83-18	82-87		83-17	83-97	84-67		83-31	82-75	82-67	82-87	82-87
19	83-18	82-87		83-27	83-97	84-67		83-40	82-80	82-67	82-87	82-77
20	83-18	82-87		83-27	83-97	84-67		83-30	82-81	82-67	82-87	82-77
21	83-18	82-77		83-37	83-97	84-67		83-20	82-75	82-67	82-87	82-67
22	83-18	82-77		83-47	83-87	84-67		83-15	82-70	82-77	82-87	82-67
23	83-08	82-77		83-57	83-87	84-77		83-15	82-60	82-77	82-87	82-67
24	83-08	82-77		83-57	83-87	84-77	83-90	83-10	82-58	82-77	82-87	82-67
25	83-08	82-77		83-67	83-87	84-77	83-86	83-10	82-56	82-77	82-87	82-67
26	83-08	82-77		83-67	83-87	84-77	83-81	83-02	82-53	82-77	82-87	82-67
27	83-08	82-77		83-67	83-87	84-77	83-78	83-10	82-55	82-77	82-87	82-67
28	83-08	82-77		83-77	83-87	84-77	83-76	83-02	82-51	82-77	82-87	82-67
29	83-08		1182-67	83-77	83-77	84-77	83-70	83-07	82-50	82-77	82-87	82-67
30	83-08		82-67	83-77	83-77	84-77	83-60	83-01	82-55	82-77	82-87	82-67
31	83-08		82-67		83-77		83-66	83-00		82-77		82-67
1926												
1	1182-67	1182-67				1183-96	1185-26	1185-36	1183-96	1183-86	1184-06	1184-76
2	82-67	82-67				84-06	85-36	85-36	83-96	83-86	84-96	84-66
3	82-67	82-67				84-06	85-36	85-26	83-96	83-96	84-96	84-66
4	82-67	82-67				84-06	85-36	85-26	83-96	83-96	84-96	84-66
5	82-67	82-67				84-06	85-36	85-26	83-86	84-06	84-96	84-66
6	82-67	82-67				84-06	85-46	85-16	83-86	84-06	84-96	84-66
7	82-67	82-57				84-06	85-46	85-16	83-86	84-16	84-96	84-66
8	82-67	82-57				84-06	85-56	85-06	83-86	84-16	84-96	84-66
9	82-67	82-57				84-06	85-56	85-06	83-86	84-26	84-96	84-66
10	82-67	82-57			1183-26	84-16	85-56	85-06	83-86	84-36	84-96	84-56
11	82-67	82-57			83-36	84-16	85-56	84-96	83-86	84-36	84-96	84-56
12	82-67	82-57			83-46	84-16	85-56	84-96	83-86	84-46	84-96	84-56
13	82-67	82-57			83-46	84-16	85-56	84-96	83-86	84-56	84-96	84-56
14	82-67	82-57			83-46	84-16	85-56	84-86	83-86	84-56	84-86	84-56
15	82-67	82-57			83-56	84-16	85-56	84-86	83-76	84-06	84-86	84-56
16	82-67	82-57	1182-47		83-56	84-06	85-56	84-76	83-76	84-75	84-96	84-56
17	82-67	82-55	82-47		83-56	84-06	85-56	84-66	83-76	84-76	84-86	84-56
18	82-67	82-57	82-47		83-56	84-06	85-56	84-66	83-76	84-86	84-86	84-46
19	82-67	82-57	82-47		83-66	84-06	85-56	84-56	83-76	84-86	84-86	84-46
20	82-67	82-57	82-47		83-66	84-16	85-56	84-36	83-76	84-86	84-86	84-46
21	82-67	82-57	82-37		83-66	84-26	85-56	84-36	83-76	84-86	84-86	84-46
22	82-67	82-57	82-37		83-76	84-46	85-56	84-26	83-76	84-86	84-86	84-46
23	82-67	82-57	82-37		83-76	84-56	85-56	84-26	83-76	84-86	84-86	84-46
24	82-67	82-57	82-37		83-86	84-66	85-56	84-26	83-76	84-96	84-86	84-46
25	82-67	82-57	82-37		83-86	84-76	85-56	84-26	83-76	84-96	84-76	84-46
26	82-67	82-57	82-37		83-96	84-86	85-56	84-16	83-76	84-96	84-76	84-36
27	82-67	82-57			83-96	84-96	85-56	84-16	83-76	84-96	84-76	84-36
28	82-67				83-96	85-06	85-46	84-06	83-76	84-96	84-76	84-36
29					83-96	85-16	85-46	84-06	83-76	84-96	84-76	84-36
30					83-96	85-26	85-46	83-96	83-86	84-96	84-76	84-36
31					83-96		85-46	83-96		84-96		84-36

RAINY LAKE INVESTIGATION

WATER LEVELS—LAC LA CROIX—AT BEATTY'S PORTAGE—Concluded

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1	1184.36	1184.06	1183.66	1183.26	1187.06		1186.40	1185.70	1184.10	1183.20	1182.80	1182.40
2	84.36	84.06	83.56	83.26	87.26		86.40	85.90	84.10	83.20	82.80	82.40
3	84.36	84.06	83.56	83.26	87.46		86.40	85.80	84.10	83.20	82.70	82.40
4	84.36	84.06	83.56	83.26	87.66		86.30	85.80	84.00	83.20	82.70	82.40
5	84.26	83.96	83.56	83.26	87.76		86.30	85.70	84.00	83.20	82.70	82.40
6	84.26	83.96	83.46	83.36	87.86		86.30	85.60	84.00	83.10	82.70	82.40
7	84.26	83.96	83.46	83.36	87.96		86.30	85.50	83.90	83.10	82.70	82.40
8	84.26	83.96	83.46	83.36	88.16		86.30	85.40	83.90	83.10	82.70	82.40
9	84.26	83.96	83.46	83.36	88.26		86.30	85.30	83.80	83.10	82.70	82.30
10	84.26	83.96	83.46	83.46	88.36		86.30	85.30	83.70	83.10	82.70	82.30
11	84.26	83.96	83.36	83.46	88.46		86.40	85.20	83.70	83.10	82.60	82.30
12	84.26	83.86	83.36	83.46	88.56		86.40	85.20	83.70	83.00	82.60	82.30
13	84.26	83.86	83.36	83.46	88.66		86.40	85.10	83.70	83.00	82.60	82.30
14	84.26	83.86	83.36	83.56	88.66		86.50	85.10	83.60	83.00	82.60	82.30
15	84.26	83.86	83.36	83.56	88.76		85.50	85.00	83.60	83.00	82.60	82.30
16	84.16	83.86	83.36	83.76	88.76		86.50	85.00	83.60	83.00	82.60	82.30
17	84.16	83.86	83.36	83.86	88.86		86.50	84.90	83.60	83.00	82.60	82.30
18	84.16	83.86	83.36	84.26	88.86		86.50	84.80	83.50	83.00	82.60	82.30
19	84.16	83.76	83.36	84.46	88.96		86.50	84.70	83.50	83.00	82.60	82.30
20	84.16	83.76	83.36	84.66	89.06		86.50	84.60	83.50	82.92	82.50	82.30
21	84.16	83.76	83.36	84.86			86.50	84.50	83.50	82.90	82.50	82.30
22	84.16	83.76	83.36	85.16			86.50	84.50	83.50	82.90	82.50	82.30
23	84.16	83.76	83.36	85.46			86.40	84.40	83.40	82.90	82.50	82.30
24	84.16	83.76	83.26	85.76			86.40	84.30	83.40	82.90	82.50	82.30
25	84.16	83.76	83.26	85.86			86.40	84.20	83.40	82.90	82.50	82.30
26	84.06	83.76	83.26	85.96			86.30	84.20	83.40	82.80	82.50	82.30
27	84.06	83.66	83.26	86.16			86.30	84.10	83.30	82.80	82.50	82.30
28	84.06	83.66	83.26	86.36			86.20	84.10	83.30	82.80	82.50	82.30
29	84.06		83.26	86.66		1186.40	86.20	84.10	83.30	82.80	82.50	82.30
30	84.06		83.26	86.86		86.40	86.10	84.10	83.30	82.80	82.50	82.30
31	84.06		83.26				86.00	84.10		82.80	82.50	82.30

## REPORT OF ENGINEERS

WATER LEVELS—LAC LA CROIX  
 RECORDS OF SURVEY PARTY (E. B. PATTERSON)  
 [Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1.								1183-64	1182-98	1182-65		
2.								83-63	82-97	82-60		
3.								83-58	82-96	82-53		
4.								83-56	82-94	82-51		
5.								83-52	82-92	82-53		
6.								83-66	82-90	82-57		
7.								83-53	82-88	82-53		
8.								83-55	82-87	82-59		
9.								83-56	82-85	82-53		
10.								83-58	82-83	82-51		
11.								83-35	82-82	82-51		
12.								83-34	82-80	82-55		
13.								83-30	82-76	82-65		
14.								83-28	82-74	82-69		
15.								83-28	82-70	82-65		
16.								83-27	82-68	82-63		
17.								83-29	82-70	82-63		
18.								83-31	82-75	82-63		
19.								83-40	82-80	82-63		
20.								83-30	82-89	82-69		
21.								83-20	82-75			
22.								83-15	82-70			
23.								83-15	82-60			
24.								1183-90	83-10	82-58		
25.								83-86	83-10	82-56		
26.								83-81	83-02	82-53		
27.								83-78	83-10	82-55		
28.								83-76	83-02	82-51		
29.								83-70	83-07	82-50		
30.								83-66	83-01	82-55		
31.								83-66	83-00			

## RECORDS OF SURVEY PARTY (G. G. McEWEN)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1.							1185-30	1185-34	1183-90			
2.								85-34	85-31			
3.						1184-09		85-36	85-30			
4.						84-08		85-34	85-18			
5.						84-07		85-43	85-15	83-91		
6.						84-08		85-44	85-15			
7.						84-09		85-43	85-07			
8.						84-12		85-44	85-00			
9.						84-12		85-45	84-94			
10.						84-10		85-56	84-92			
11.						84-09		85-58	84-84			
12.						84-08		85-57	84-80			
13.						84-06		85-56	84-74			
14.						84-04		85-55	84-68			
15.						84-02		85-54	84-62			
16.						84-00		85-54	84-58			
17.						84-01		85-58	84-54			
18.						84-03		85-57	84-47			
19.						84-01		85-56	84-38			
20.						84-08		85-58	84-37	83-73		
21.						84-30		85-60				
22.						84-50		85-60	84-32			
23.						84-63		85-58				
24.						84-76		85-57				
25.						84-90		85-56				
26.						84-98		85-55				
27.						85-08		85-53				
28.						85-15		85-50				
29.						85-22		85-46	84-03	83-87		
30.						85-25		85-44	83-91			
31.								85-41	83-92			

RAINY LAKE INVESTIGATION

WATER LEVELS—LAC LA CROIX—AT WILLIAMSON'S

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1										1183.97	1185.07	1184.72
2										83.87	85.07	84.67
3										83.92	85.07	84.67
4										83.97	85.07	84.67
5										84.07	85.02	84.67
6												
7										84.12	85.02	84.72
8										84.17	85.02	84.72
9										84.27	84.97	84.72
10										84.32	84.97	84.72
11										84.37	84.92	84.72
12												
13										84.42	84.92	84.72
14										84.47	84.92	84.67
15										84.57	84.87	84.67
16										84.67	84.87	84.67
17										84.67	84.87	84.67
18										84.72	84.87	84.67
19										84.77	84.87	84.67
20										84.77	84.87	84.67
21										84.77	84.87	84.67
22										84.82	84.87	84.67
23										84.82	84.87	84.67
24										84.82	84.87	84.67
25										84.82	84.87	84.67
26										84.82	84.87	84.67
27										84.82	84.87	84.67
28										84.82	84.87	84.67
29										84.82	84.87	84.67
30										84.82	84.87	84.67
31										84.82	84.87	84.67
1927												
1	1184.47	1184.12	1183.72	1183.27	1187.07	1188.77	1186.37	1185.97	1184.19	1183.27	1182.82	1182.42
2	84.47	84.12	83.67	83.27	87.37	88.77	86.37	85.90	84.17	83.27	82.77	82.42
3	84.47	84.12	83.67	83.27	87.52	88.72	86.37	85.85	84.09	83.27	82.77	82.42
4	84.42	84.12	83.62	83.27	87.07	88.67	86.32	85.80	84.07	83.27	82.77	82.42
5	84.42	84.12	83.62	83.32	87.87	88.57	86.32	85.70	84.04	83.27	82.77	82.37
6	84.37	84.07	83.57	83.37	87.97	88.47	86.32	85.62	83.97	83.27	83.72	82.37
7	84.37	84.07	83.57	83.37	88.07	88.42	86.27	85.62	83.97	83.22	82.72	82.37
8	84.37	84.07	83.52	83.37	88.17	88.22	86.35	85.55	83.92	83.19	82.72	82.32
9	84.32	84.07	83.52	83.37	88.37	88.27	86.37	85.45	83.84	83.17	82.72	82.32
10	84.32	84.02	83.52	83.37	88.47	87.97	86.37	85.40	83.79	83.19	82.67	82.32
11	84.32	84.02	83.47	83.42	88.57	87.87	86.42	85.32	83.77	83.12	82.67	82.32
12	84.32	84.02	83.47	83.42	88.62	87.77	86.45	85.22	83.77	83.09	82.67	82.32
13	84.27	83.97	83.47	83.47	88.62	87.67	86.50	85.15	83.77	83.07	82.64	82.32
14	84.27	83.97	83.42	83.52	88.67	87.57	86.52	85.07	83.72	83.07	82.62	82.32
15	84.27	83.92	83.42	83.62	88.72	87.47	86.52	85.00	83.67	83.07	82.62	82.32
16	84.22	83.92	83.42	83.77	88.77	87.47	86.57	84.92	83.62	83.07	82.59	82.32
17	84.22	83.92	83.47	83.87	88.87	87.37	86.57	84.80	83.57	83.02	82.57	82.32
18	84.22	83.87	83.47	84.27	89.07	87.27	86.57	84.70	83.52	83.02	82.57	82.32
19	84.22	83.87	83.47	84.47	89.17	87.07	86.57	84.62	83.52	83.02	82.57	82.32
20	84.22	83.82	83.47	84.67	89.77	86.87	86.57	84.55	83.52	82.97	82.52	82.32
21	84.17	83.82	83.42	84.87	89.67	86.77	86.55	84.52	83.52	82.97	82.52	82.32
22	84.17	83.82	83.42	85.37	89.57	86.77	86.52	84.44	83.47	82.97	82.52	82.37
23	84.17	83.82	83.37	85.57	89.57	86.77	86.47	84.37	83.44	82.97	82.52	82.37
24	84.17	83.77	83.37	85.87	89.37	86.67	86.42	84.37	83.34	82.92	82.47	82.37
25	84.17	83.77	83.37	85.87	89.17	86.67	86.42	84.37	83.34	82.92	82.47	82.37
26	84.17	83.77	83.32	85.97	89.17	86.57	86.37	84.32	83.32	82.87	82.47	82.37
28	84.17	83.77	83.32	86.17	89.07	86.57	86.35	84.27	83.29	82.87	82.47	82.37
29	84.17	83.72	83.32	86.37	88.97	86.47	86.25	84.27	83.27	82.87	82.47	82.37
29	84.12		83.32	86.62	88.87	86.47	86.17	84.22	83.27	82.82	82.47	82.37
30	84.12		83.32	86.82	88.87	86.37	86.12	84.17	83.27	82.82	82.42	82.37
31	84.12		83.32		88.77		86.05	84.14		82.82		82.37

## REPORT OF ENGINEERS

DAILY DISCHARGE IN SECOND-FEET—NAMAKAN RIVER—OUTLET OF LAC LA CROIX  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1.....									2060	1680	1180	910
2.....									1990	1680	1180	910
3.....									1990	1660	1180	910
4.....									1960	1640	1180	830
5.....									1930	1620	1090	830
6.....									1910	1620	1090	830
7.....									1910	1600	1090	830
8.....									1900	1570	1090	830
9.....									1900	1550	1090	760
10.....									1900	1510	1090	760
11.....									1900	1480	1090	760
12.....									1890	1460	1090	760
13.....									1890	1450	1090	760
14.....									1890	1420	1090	760
15.....									1870	1410	1090	760
16.....									1870	1380	1000	760
17.....									1870	1380	1000	760
18.....									1860	1360	1000	760
19.....									1840	1360	1000	760
20.....									1840	1340	1000	760
21.....									1810	1280	1000	760
22.....								2360	1810	1280	1000	690
23.....								2310	1800	1280	910	690
24.....								2280	1800	1280	910	690
25.....								2240	1800	1280	910	
26.....								2190	1790	1280	910	
27.....								2130	1760	1280	910	
28.....								2110	1750	1280	910	
29.....								2100	1730	1180	910	
30.....								2090	1720	1180	910	
31.....								2060		1180		
1922												
1.....	690			830	4450	7510		2730	1990	1390	1000	
2.....	690			1090	4640	7510		2730	1990	1390	1000	
3.....	690			1180	4830	7290		2730	1990	1390	1000	
4.....	690			1180	5020	7290		2730	1990	1390	1000	
5.....	690			1180	5210	7290		2730	1990	1390	1000	
6.....	690			1180	5600	7290		2730	1990	1280	1000	
7.....	690			1180		7070		2730	1990	1280	1000	
8.....	690			1280		6850		2580	1990	1280	1000	
9.....	690			1280		6430		2580	1990	1280	1000	
10.....	630			1280		6430		2580	1860	1280	1000	
11.....	630			1390		7510		2580	1740	1280	1000	
12.....	630			1390		7070		2580	1740	1180	1000	
13.....	630			1390		6850			1740	1180	1000	
14.....	630			1390		6640			1740	1180	910	
15.....	630			1500		6430			1740	1180	910	
16.....	630			1620		6220	3730		1620	1180	910	
17.....	630			1740		6010	3730		1620	1180	910	
18.....	630			1860			3730		1620	1090	910	
19.....	630			2130			3550		1620	1090	910	
20.....	630			2280			3550		1620	1090	910	
21.....	630			2580			3550		1500	1090	910	
22.....	630			2730			3380		1500	1090	910	
23.....	630			2890			3210		1500	1090	910	
24.....	570			3050			3210		1500	1090	910	
25.....	570			3210			3050		1500	1090	910	
26.....	570			3380			3050		1500	1090	830	
27.....	570			3550			2890		1500	1090	830	
28.....	570			3810	8200		2890		1500	1090	830	
29.....				4090	8200		2890		1500	1000	830	
30.....				4450	7970		2890		1500	1000	830	
31.....					7740		2730			1000		

DAILY DISCHARGE IN SECOND-FEET—NAMAKAN RIVER—OUTLET OF LAC LA CROIX—Con.

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1					2130	3210	2430	1860	1620	1280	910	690
2					2280	3210	2430	1860	1620	1280	910	690
3					2430	3210	2280	1860	1620	1280	910	690
4					2580	3210	2280	1860	1620	1280	830	690
5					2780	3210	2280	1860	1620	1280	830	690
6												
7					2730	3210	2280	1860	1620	1280	830	690
8					2730	3050	2130	1860	1620	1280	830	690
9					2890	3050	2130	1860	1620	1180	830	690
10					2890	3050	2130	1860	1500	1180	830	690
11					3050	3050	2130	1860	1500	1180	1000	630
12					3050	3050	2130	1860	1500	1180	1000	630
13					3210	2890	2130	1740	1500	1180	760	630
14					3210	2890	2130	1740	1500	1180	760	630
15			847		3210	2890	1990	1740	1500	1090	760	630
16					3210	2730	1990	1740	1500	1090	760	630
17					3210	2730	1990	1740	1500	1090	760	630
18					3210	2730	1990	1740	1500	1090	760	630
19					3210	2580	1990	1740	1500	1090	760	630
20				910	3210	2580	1990	1740	1500	1090	760	630
21				1000	3210	2580	1990	1740	1500	1090	760	630
22				1090	3210	2580	1860	1620	1500	1000	760	630
23				1180	3210	2580	1860	1620	1390	1000	760	630
24				1280	3210		1860	1620	1390	1000	760	630
25				1390	3210		1860	1620	1390	1000	690	630
26				1500	3210		1860	1620	1390	1000	690	630
27				1620	3210		1860	1620	1390	1000	690	630
28				1740	3210		1860	1620	1390	910	690	630
29				1860	3210		1860	1620	1390	910	690	630
30				1990	3210		1860	1620	1390	910	690	630
31	911				3210		1860	1620		910		630
1924												
1	630	580	535	535		1280	1390	1180	1180	2410	4810	3370
2	630	580	535	535		1280	1390	1180	1180	2410	4810	3370
3	580	580	535	535		1280	1390	1180	1180	2410	4630	3200
4	580	535	535	535	910	1280	1390	1180	1280	2570	4630	3200
5	580	535	535	535	910	1280	1390	1180	1280	2570	4630	3200
6	580	535	535	535	910	1280	1390	1180	1280	2570	4630	3030
7	580	535	535	535	910	1280	1390	1180	1280	2730	4630	3030
8	580	535	535	535	1000	1280	1280	1180	1390	2730	4450	3030
9	580	535	535	535	1000	1390	1280	1180	1390	2730	4450	3030
10	580	535	535	535	1000	1390	1280	1180	1390	2730	4450	3030
11	580	535	535	535	1000	1500	1280	1180	1500	2890	4450	2870
12	580	535	535	535	1090	1500	1280	1180	1500	3220	4270	2870
13	580	535	535		1090	1500	1280	1180	1620	3220	4270	2870
14	580	535	535		1090	1500	1280	1180	1620	3390	4270	2870
15	580	535	535		1090	1500	1280	1180	1740	3730	4090	2710
16	580	535	535		1090	1500	1280	1180	1740	3910	4090	2710
17	580	535	535		1180	1620	1280	1180	1740	4090	4090	2710
18	580	535	535		1180	1620	1280	1180	1860	4270	3910	2710
19	580	535	535		1180	1620	1180	1180	1860	4450	3910	2710
20	580	535	535		1180	1620	1180	1180	1860	4450	3910	2710
21	580	535	535		1280	1620	1180	1180	1990	4630	3730	2710
22	580	535	535		1280	1620	1180	1180	1990	4630	3730	2550
23	580	535	535		1280	1620	1180	1180	1990	4810	3730	2550
24	580	535	535		1280	1620	1180	1180	1990	4810	3730	2550
25	580	535	535		1280	1620	1180	1180	2130	4810	3560	2550
26	580	535	535		1280	1620	1180	1180	2130	4810	3560	2550
27	580	535	535		1280	1620	1180	1180	2130	4810	3560	2550
28	580	535	535		1280	1620	1180	1180	2280	4810	3560	2550
29	580	535	535		1280	1390	1180	1180	2280	4810	3390	2400
30	580		535		1280	1390	1180	1180	2280	4810	3390	2400
31	580		535		1280		1180	1180		4810		2400



DAILY DISCHARGE IN SECOND-FEET—NAMAKAN RIVER—OUTLET OF LAC LA CROIX—Con.  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	2380	1820		1470	3170	3000	4760	2790	1830	1360	1680	1680
2	2380	1820		1470	3100	3000	4760	2780	1820	1360	1680	1680
3	2380	1820		1580	3170	3000	4760	2700	1810	1360	1680	1680
4	2380	1820		1580	3170	3000	4760	2070	1780	1360	1680	1680
5	2230	1820		1180	3170	3170	4580	2000	1760	1360	1680	1680
6	2230	1820		1580	3340	3340	4580	2830	1730	1360	1680	1680
7	2230	1820		1580	3340	3510	4400	2620	1710	1360	1680	1680
8	2230	1820		1690	3340	3680	4400	2650	1690	1360	1680	1680
9	2230	1820		1690	3340	3680	4220	2670	1670	1360	1680	1680
10	2230	1820		1690	3340	3860	4220	2730	1650	1360	1680	1680
11	2230	1690		1820	3340	4040	4040	2340	1630	1360	1680	1680
12	2230	1690		1820	3340	4040		2320	1610	1360	1680	1680
13	2230	1690		1820	3340	4040		2260	1570	1460	1680	1680
14	2090	1690		1950	3340	4220		2230	1540	1460	1680	1680
15	2090	1690		1950	3340	4220		2230	1500	1460	1680	1680
16	2090	1690		1950	3340	4400		2220	1480	1460	1680	1680
17	2090	1690		2080	3340	4400		2250	1500	1460	1680	1680
18	2090	1690		2080	3340	4580		2280	1560	1460	1680	1680
19	2090	1690		2220	3340	4580		2410	1610	1460	1680	1570
20	2090	1690		2220	3340	4580		2260	1620	1460	1680	1570
21	2090	1580		2370	3340	4580		2120	1560	1460	1680	1460
22	2090	1580		2520	3170	4580		2060	1500	1570	1680	1460
23	1960	1580		2680	3170	4760		2060	1390	1570	1680	1410
24	1960	1580		2680	3170	4760	3220	1990	1370	1570	1680	1460
25	1960	1580		2840	3170	4760	3150	1990	1350	1570	1680	1460
26	1960	1580		2840	3170	4760	3070	1890	1320	1570	1680	1460
27	1960	1580		2840	3170	4760	3020	1990	1340	1570	1680	1460
28	1960	1580		3000	3170	4760	2990	1890	1300	1570	1680	1460
29	1960		1470	3000	3000	4760	2890	1950	1290	1570	1680	1460
30	1960		1470	3000	3000	4760	2730	1870	1340	1570	1680	1460
31	1960		1470		3000		2830	1860		1570		1460
1926												
1	1460	1460				3070	5370	5580	3070	3090	4970	4320
2	1460	1460				3220	5580	5580	3070	2950	4970	4230
3	1460	1460				3220	5580	5370	3070	3020	4970	4230
4	1460	1460				3220	5580	5370	3070	3090	4970	4230
5	1460	1460				3220	5580	5370	2930	3240	4870	4230
6	1460	1460				3220	5810	5160	2930	3310	4870	4320
7	1460	1360				3220	5810	5160	2930	3390	4870	4320
8	1460	1360				3220	6040	4950	2930	3550	4770	4320
9	1460	1360			2130	3380	6040	4950	2930	3630	4770	4320
10	1460	1360			2260	3380	6040	4950	2930	3710	4680	4320
11	1460	1360			2260	3380	6040	4750	2930	3790	4680	4320
12	1460	1360			2390	3380	6040	4750	2930	3880	4680	4230
13	1460	1360			2390	3380	6040	4750	2930	4050	4590	4230
14	1460	1360			2390	3380	6040	4570	2930	4230	4590	4230
15	1460	1360			2520	3380	6040	4570	2790	4230	4590	4230
16	1460	1360	1260		2520	3220	6040	4390	2780	4320	4590	4230
17	1460	1360	1260		2520	3220	6040	4210	2780	4410	4590	4230
18	1460	1360	1260		2520	3220	6040	4210	2790	4680	4590	4140
19	1460	1360	1260		2650	3220	6040	4030	2790	4770	4500	4140
20	1460	1360	1260		2650	3380	6040	3790	2790	4770	4500	4140
21	1460	1360	1160		2650	3540	6040	3700	2790	4770	4500	4140
22	1460	1360	1160		2790	3860	6040	3540	2790	4770	4500	4140
23	1460	1360	1160		2790	4030	6040	3540	2790	4870	4410	4050
24	1460	1360	1160		2930	4210	6040	3540	2790	4970	4410	4050
25	1460	1360	1160		2930	4390	6040	3540	2790	4970	4410	4050
26	1460	1360	1160		3070	4570	6040	3380	2790	4970	4410	4050
27	1460	1360			3070	4750	6040	3380	2790	5070	4320	4050
28	1460	1360			3070	4950	5810	3220	2790	5070	4320	3960
29	1460				3070	5160	5810	3220	2790	5070	4320	3960
30	1460				3070	5370	5810	3070	2930	5070	4320	3960
31	1460				3070		5810	3070		4970		3960

DAILY DISCHARGE IN SECOND-FEET—NAMAKAN RIVER—OUTLET OF LAC LA CROIX—Con.

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1.....	3880	3310	2740	2140	9680	14000	7980	7020	3420	2140	1620	1210
2.....	3880	3310	2670	2140	10400	14000	7980	6850	3390	2140	1570	1210
3.....	3880	3310	2670	2140	10800	13800	7980	6730	3270	2140	1570	1210
4.....	3790	3310	2600	2140	11200	13700	7860	6610	3240	2140	1570	1210
5.....	3790	3310	2600	2210	11700	13400	7860	6370	3190	2140	1570	1160
6.....	3710	3240	2530	2270	11900	13200	7860	6180	3090	2140	1510	1160
7.....	3710	3240	2530	2270	12200	13100	7740	6180	3090	2080	1510	1160
8.....	3710	3240	2470	2270	12400	12600	7930	6020	3020	2050	1510	1110
9.....	3630	3240	2470	2270	12900	12200	7980	5790	2910	2020	1510	1110
10.....	3630	3160	2470	2270	13200	11900	7980	5670	2840	2050	1460	1110
11.....	3630	3160	2400	2340	13400	11700	8100	5490	2810	1960	1460	1110
12.....	3630	3160	2400	2340	13600	11400	8170	5280	2810	1930	1460	1110
13.....	3550	3090	2400	2400	13600	11200	8290	5140	2810	1900	1430	1110
14.....	3550	3090	2340	2470	13700	10900	8340	4970	2740	1900	1410	1110
15.....	2550	3020	2340	2600	13800	10700	8340	4830	2670	1900	1410	1110
16.....	3470	3020	2340	2810	14000	10700	8460	4680	2600	1900	1380	1110
17.....	3470	3020	2400	2950	14200	10400	8460	4460	2530	1840	1360	1110
18.....	3470	2950	2400	3550	14700	10200	8460	4280	2470	1840	1360	1110
19.....	3470	2950	2400	3880	15000	9680	8460	4140	2470	1840	1360	1110
20.....	3470	2880	2400	4230	16700	9180	8460	4020	2470	1790	1310	1110
21.....	3390	2880	2340	4590	16400	8940	8410	3960	2470	1790	1310	1110
22.....	3390	2880	2340	5600	16100	8940	8340	3830	2400	1790	1310	1160
23.....	3390	2880	2270	6060	16100	8940	8220	3710	2360	1790	1310	1160
24.....	3390	2810	2270	6780	15500	8940	8220	3630	2300	1730	1310	1160
25.....	3390	2810	2270	6780	15000	8700	8100	3710	2230	1730	1260	1160
26.....	3390	2810	2210	7020	15000	8460	7980	3630	2210	1680	1260	1160
27.....	3390	2810	2210	7500	14700	8460	7930	3550	2170	1680	1260	1160
28.....	3390	2740	2210	7980	14500	8220	7690	3550	2140	1680	1260	1160
29.....	3310	.....	2210	8580	14200	8220	7500	3470	2140	1620	1260	1160
30.....	3310	.....	2210	9060	14200	7980	7380	3390	2140	1620	1210	1160
31.....	3310	.....	2210	.....	14000	.....	7210	3340	.....	1620	.....	1160

SUMMARY OF MEAN MONTHLY DISCHARGE IN SECOND-FEET OF NAMAKAN RIVER AT OUTLET OF LAC LA CROIX

Month	1921	1922	1923	1924	1925	1926	1927
January.....	.....	632 <sup>e</sup>	900 <sup>e</sup>	583	2130	1460	3550
February.....	.....	.....	880 <sup>e</sup>	540	1710	1380	3060
March.....	.....	.....	850 <sup>e</sup>	535	1530 <sup>e</sup>	1250	2400
April.....	.....	2070	1100 <sup>e</sup>	620 <sup>e</sup>	2120	1500 <sup>e</sup>	4050
May.....	.....	6630 <sup>e</sup>	3020	1110 <sup>e</sup>	3240	2500 <sup>e</sup>	13700
June.....	.....	6290 <sup>e</sup>	2830	1470	4120	3680 <sup>e</sup>	10800
July.....	.....	3800 <sup>e</sup>	2050	1260	3780 <sup>e</sup>	5910	8050
August.....	.....	2450 <sup>e</sup>	1750	1180	2310	4310	4850
September.....	1870	1720	1500	1700	1560	2880	2680
October.....	1420	1180	1110	3740	1460	4220	1890
November.....	1030	936	793	4110	1680	4620	1400
December.....	763 <sup>e</sup>	910 <sup>e</sup>	647	2810	1590	4170	1140

<sup>e</sup> Estimated.

## VERMILION RIVER BELOW VERMILION LAKE, NEAR TOWER, MINN.

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

*Location.*—In Sec. 2, T. 63 N., R. 17 W., in St. Louis County, about 100 yards below dam at outlet of Vermilion Lake, 4 miles above Twomile Creek, which enters from the west, and about 18 miles across Vermilion Lake from Tower.

*Drainage Area.*—507 square miles.

*Records Available.*—May 17, 1911, to September 30, 1917, when station was discontinued.

*Gauge.*—Vertical staff gauge attached to a tree at the left bank; read by Mrs. A. E. Shively.

*Discharge Measurements.*—From 1911-1913 made from a cable just below the gauge; from 1914-1916 made from a boat about 1 mile below the gauge.

*Channel and Control.*—Bed composed of solid rock and large boulders. Heavy falls a short distance below the gauge form permanent control; banks are not overflowed to any considerable extent.

*Extremes of Discharge.*—Maximum stage recorded during year, 1.7 feet October 1-5 and July 5 (discharge, 397 second-feet); minimum stage recorded, 0.70 foot, March 4-12, April 5-6, and September 28-30 (discharge, 130 second-feet). 1911-1917: Maximum stage recorded, 3.8 feet, April 29 to May 7, 1916 (discharge, 2,050 second-feet); Minimum stage recorded, 0.22 foot, October 1 and 2, 1914 (discharge, 60 second-feet).

*Ice.*—Stage-discharge relation not affected by ice, owing to the heavy fall at the control section, and to the proximity to Vermilion Lake.

*Regulation.*—At the outlet of Vermilion Lake, a few hundred feet above the gauge, is a loose rock dam which is used to raise the water surface of the lake for aid in navigation. This dam has no gates, but was repaired on July 19, 1912, thus for a period reducing the flow below normal. From April 28 to May 10, 1914, parts of the dam were removed and for some time subsequent the flow exceeded normal.

*Accuracy.*—Stage-discharge relation permanent. Rating curve well defined. Gauge read to quarter-tenths daily; fluctuations in stage so gradual that good results are obtained from one reading a day. Daily discharge ascertained by applying daily gauge height to rating table. Records good.

## DISCHARGE MEASUREMENTS—VERMILION RIVER—OUTLET LAKE VERMILION, MINN.

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Date	Hydrographer	Width Feet	Area Sq. ft.	Mean velocity Ft. per sec.	Gauge height	Discharge c. f. s.	Notes
1911							
May 31.....	Emerson.....	65	116	4-49	1-94	518	(1)
June 30.....	".....	65	113	4-30	1-88	486	.....
July 30.....	Soulé.....	26	76	3-44	1-32	262	.....
Oct. 8.....	".....	26	65	2-66	0-93	173	.....
1912							
Jan. 16.....	Soulé.....	23	69	2-03	0-69	140	(2)
Mar. 7.....	".....	23	51	1-92	0-52	98	(2)
.....	Hoyt.....	23	57	1-81	0-52	103	(2)
Oct. 16.....	Soulé.....	23	56	1-88	0-58	105	.....
1913							
July 2.....	Soulé.....	47	154	5-90	2-63	908	.....
.....	".....	47	153	5-95	2-62	912	.....
Oct. 2.....	Peterson.....	24	53	1-39	0-32	73	.....
.....	".....	24	52	1-40	0-32	73	.....
1914							
May 20.....	Soulé.....	128	754	1-42	2-91	1070	(3)
.....	".....	144	959	1-03	2-85	991	(4)
1916							
May 10.....	Soulé.....	.....	.....	.....	3-58	1780	.....
.....	".....	.....	.....	.....	3-40	1590	.....
1917							
Sept. 13.....	Kilgore.....	.....	.....	.....	0-88	156	.....

(1) With soundings corrected by measurement of June 30.

(2) Open water conditions, regular section.

(3) Measurement made about 4,000 feet below gauge. Control clear.

(4) Measurement made about 6,000 feet below gauge. Control clear.

DAILY DISCHARGE IN SECOND-FEET—VERMILION RIVER—OUTLET LAKE VERMILION, MINN.  
RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1						490	490	272	167	158	132	130
2						490	466	272	167	158	127	130
3						515	442	266	167	156	124	130
4						490	420	266	167	156	120	130
5						490	411	263	167	158	117	130
6						490	407	263	187	158	114	130
7						490	402	266	321	158	114	130
8						515	358	263	321	156	114	130
9						515	358	263	321	156	114	130
10						568	321	260	257	156	114	130
11						556	304	260	231	156	114	130
12						546	287	257	208	158	114	130
13						540	272	257	208	156	114	130
14						540	266	244	208	156	114	130
15						540	257	244	208	156	114	130
16						515	272	231	208	156	114	130
17					515	500	272	231	187	158	117	130
18					540	495	257	231	187	159	119	130
19					595	490	257	244	183	159	122	130
20					540	622	231	244	179	158	127	130
21					515	595	208	244	175	156	130	130
22					540	568	257	236	167	154	130	130
23					568	568	257	231	167	152	130	130
24					540	540	257	208	167	148	130	130
25					515	540	257	208	167	144	130	130
26					490	515	272	187	167	141	130	130
27					490	515	272	187	167	137	130	130
28					490	490	272	187	163	134	130	130
29					490	490	263	187	159	132	130	130
30					490	490	263	167	158	130	130	130
31					515		263	167		130		130
Monthly mean discharge, cu. ft. per sec.					522	524	309	236	197	152	122	130
Inches depth on drainage area					0.61	1.23	0.75	0.57	0.46	0.37	0.29	0.32
1912												
1	130	122	106	93	208	540	340	122	107	114	100	100
2	130	122	103	93	231	540	321	122	107	114	100	100
3	130	122	103	93	257	540	321	122	107	114	100	100
4	130	122	103	93	287	515	304	114	107	114	100	100
5	130	122	103	93	321	515	287	114	114	114	100	100
6	130	122	103	93	358	515	287	114	114	114	100	100
7	130	122	103	93	398	490	287	114	114	114	100	100
8	130	122	100	97	420	490	272	114	114	114	100	100
9	130	122	100	100	442	490	272	107	114	114	100	100
10	130	122	100	100	490	490	257	107	114	114	100	100
11	130	120	100	100	490	515	244	107	114	114	100	100
12	130	119	100	103	540	515	244	107	114	114	100	100
13	130	119	100	100	540	490	244	107	114	114	100	100
14	130	117	94	107	568	466	257	100	114	114	100	100
15	130	117	92	107	568	466	244	100	114	114	100	100
16	130	116	89	107	568	442	244	100	114	114	100	100
17	130	116	89	110	568	442	244	100	114	114	100	100
18	127	114	89	114	568	442	148	100	114	114	100	100
19	127	114	89	119	595	442	148	100	114	114	100	100
20	127	114	89	122	595	420	130	100	114	107	100	100
21	127	114	89	127	595	420	130	100	114	107	100	100
22	122	114	89	130	595	420	130	100	114	107	100	100
23	122	114	89	130	568	420	130	100	114	107	100	100
24	122	114	89	130	568	398	130	100	114	107	100	100
25	122	114	89	139	568	398	122	100	114	107	100	100
26	122	114	90	148	568	378	122	107	114	107	100	100
27	122	111	92	158	568	378	122	107	114	107	100	100
28	122	108	93	158	540	358	122	107	114	107	100	100
29	122	106	93	167	540	340	122	107	114	107	100	100
30	122		93	177	540	340	122	107	114	107	100	100
31	122		93		540		122	107		107		100
Monthly mean discharge, cu. ft. per sec.	127	117	95	117	490	454	209	107	113	111	100	100
Inches depth on drainage area	0.31	0.27	0.23	0.27	1.19	1.07	0.51	0.26	0.27	0.27	0.23	0.24

Note.—Daily discharge computed from a rating curve well defined.

DAILY DISCHARGE IN SECOND-FEET—VERMILION RIVER—OUTLET LAKE VERMILION, MINN.

—Continued

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	98	98	98	101	212	1290	990	466	74	60	95	117
2	98	98	98	101	218	1290	930	515	74	60	95	122
3	98	98	98	101	222	1360	870	466	74	63	95	122
4	98	98	98	101	226	1360	870	490	74	63	98	122
5	98	98	98	101	231	1360	810	442	74	66	101	127
6	98	98	98	101	257	1420	810	378	74	70	101	127
7	98	98	98	101	257	1420	728	244	74	73	98	127
8	98	98	98	101	287	1420	755	231	74	73	98	127
9	98	98	98	101	287	1420	728	208	74	73	98	127
10	98	98	98	101	287	1420	700	158	74	73	98	127
11	98	98	98	101	287	1420	755	122	74	73	98	122
12	98	98	98	101	287	1360	728	114	74	76	98	122
13	98	98	98	106	287	1360	645	106	74	83	98	122
14	98	98	98	106	287	1360	672	103	74	90	98	122
15	98	98	98	106	321	1360	645	98	74	90	98	122
16	98	98	98	112	358	1360	672	98	74	90	106	122
17	98	98	98	119	398	1290	645	98	74	95	106	122
18	98	98	98	125	442	1230	700	98	74	95	106	122
19	98	98	98	132	442	1230	672	98	68	95	106	122
20	98	98	98	138	540	1230	645	90	68	95	106	122
21	98	98	98	145	540	1170	590	90	68	95	106	122
22	98	98	98	152	810	1110	645	83	64	95	106	122
23	98	98	98	158	1110	1110	565	83	62	95	106	122
24	98	98	98	165	1170	1110	645	83	62	95	106	122
25	98	98	98	172	1230	1050	618	76	62	95	106	122
26	98	98	98	179	1230	1050	618	76	62	95	106	122
27	98	98	98	186	1230	990	540	76	62	95	106	122
28	98	98	98	193	1230	990	590	76	62	95	106	122
29	98	98	98	200	1290	990	515	76	62	95	111	122
30	98	98	98	205	1290	930	442	76	62	95	114	122
31	98	98	98	205	1290	930	490	76	62	95	114	122
Monthly mean discharge, cu. ft. per sec.	98	98	98	130	598	1250	685	177	70	84	102	123
Inches depth on drainage area	0.24	0.21	0.24	0.31	1.45	2.94	1.66	0.43	0.16	0.20	0.24	0.30
1914												
1	122	117	130	124	378	810	490	442	231	208	171	117
2	122	117	130	124	442	810	490	442	231	208	171	117
3	122	117	130	124	540	810	490	442	231	208	167	117
4	122	122	130	122	565	810	490	398	231	208	167	117
5	122	122	130	122	590	810	490	398	231	208	167	117
6	122	122	130	122	645	810	490	378	220	208	163	117
7	122	122	130	122	755	810	466	358	208	208	163	117
8	122	122	130	120	755	810	466	340	208	208	163	117
9	122	122	130	120	755	782	490	321	231	208	158	117
10	117	122	130	120	755	782	490	321	231	208	158	117
11	117	127	130	117	1110	755	490	304	220	198	158	117
12	117	127	127	117	1110	755	490	304	231	198	152	114
13	117	127	127	117	1110	755	515	287	231	198	152	114
14	117	127	127	116	1110	755	540	272	231	198	148	114
15	117	127	127	116	1110	755	540	257	231	187	148	114
16	117	127	127	114	1110	728	540	257	231	187	144	114
17	117	127	127	116	1050	700	540	257	231	187	144	114
18	117	127	127	124	1050	672	540	257	231	187	139	114
19	117	127	127	128	1050	540	540	257	231	187	139	114
20	117	127	127	135	1050	540	540	257	231	187	134	114
21	117	127	127	141	1050	540	515	257	231	187	134	114
22	117	130	127	144	990	540	490	257	231	183	130	114
23	117	130	127	144	990	540	490	257	231	183	130	114
24	117	130	127	146	990	540	490	257	231	183	127	114
25	117	130	127	158	990	540	490	257	231	183	127	114
26	117	130	127	169	990	515	490	244	231	177	122	114
27	117	130	127	179	930	515	490	244	220	177	122	114
28	117	130	127	220	870	515	490	231	220	177	117	111
29	117	130	127	287	870	490	466	231	208	177	117	111
30	117	130	127	334	870	490	442	231	208	171	117	111
31	117	130	127	810	810	442	231	231	171	117	111	111
Monthly mean discharge, cu. ft. per sec.	118	125	128	145	884	674	497	298	226	192	145	115
Inches depth on drainage area	0.29	0.27	0.31	0.34	2.15	1.58	1.21	0.72	0.53	0.47	0.34	0.28

RAINY LAKE INVESTIGATION

DAILY DISCHARGE IN SECOND-FEET—VERMILION RIVER—OUTLET VERMILION LAKE, MINN.  
—Continued

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1.....	111	106	101	80	101	287	930	672	287	139	208	244
2.....	111	106	98	80	106	287	930	672	287	139	198	244
3.....	111	106	98	80	111	272	930	672	272	139	198	244
4.....	111	106	95	80	114	272	930	672	257	152	187	244
5.....	111	106	95	80	117	272	930	540	257	171	187	231
6.....	111	106	90	83	122	287	930	540	231	187	183	231
7.....	111	106	90	86	127	304	930	540	231	187	183	231
8.....	111	106	86	86	130	321	930	540	208	183	183	231
9.....	111	106	86	83	134	321	930	540	187	183	183	231
10.....	111	106	86	83	139	358	870	540	187	187	187	231
11.....	111	106	86	86	163	308	870	515	187	187	187	231
12.....	111	106	86	86	171	308	930	515	187	187	187	231
13.....	111	106	86	90	171	490	870	515	183	187	198	231
14.....	111	106	86	90	163	590	870	515	183	187	208	231
15.....	111	106	86	90	163	618	870	420	177	187	208	231
16.....	111	106	86	90	208	728	870	420	171	187	208	231
17.....	111	106	86	90	208	755	870	420	167	187	208	231
18.....	111	106	86	90	231	755	870	420	163	198	208	231
19.....	111	106	86	90	231	810	870	398	163	198	208	231
20.....	111	106	86	90	257	810	870	398	163	208	208	220
21.....	111	106	83	90	257	810	810	398	163	208	208	220
22.....	106	106	83	90	272	870	755	378	158	208	231	220
23.....	106	106	83	90	272	870	755	378	158	208	231	220
24.....	106	106	83	90	272	870	782	358	152	208	231	220
25.....	106	106	83	95	272	870	782	358	152	208	231	208
26.....	106	106	83	95	272	870	755	358	148	208	231	208
27.....	106	101	83	95	272	930	700	340	148	208	231	208
28.....	106	101	80	98	272	930	700	321	148	208	244	208
29.....	106	.....	80	98	272	930	728	321	144	208	244	208
30.....	106	.....	80	101	272	930	728	321	144	208	244	208
31.....	106	.....	80	.....	272	.....	645	304	.....	198	.....	208
1916												
1.....	208	208	183	158	2050	1360	845	618	257	397	321	244
2.....	208	208	183	158	2050	1360	845	618	244	397	321	244
3.....	208	208	183	158	2050	1360	845	618	244	397	321	244
4.....	208	208	183	163	2050	1360	845	594	257	397	321	231
5.....	208	208	183	163	2050	1360	845	569	257	397	321	231
6.....	208	208	177	167	2050	1360	783	569	304	397	321	231
7.....	208	208	177	167	2050	1260	783	569	358	378	321	231
8.....	208	208	177	167	1580	1160	783	569	397	358	321	231
9.....	208	208	177	177	1930	1070	783	569	437	358	304	231
10.....	208	208	177	187	1810	990	783	546	458	358	304	231
11.....	208	208	171	198	1580	990	783	523	458	340	304	231
12.....	208	208	171	208	1810	990	783	523	458	321	287	231
13.....	208	208	171	220	1690	915	783	523	479	321	287	220
14.....	208	208	171	231	1690	915	783	523	479	321	287	220
15.....	208	208	171	257	1690	915	754	501	437	321	287	208
16.....	208	208	171	358	1580	845	754	479	437	321	287	208
17.....	208	208	171	479	1580	845	754	479	437	321	287	208
18.....	208	208	171	594	1580	845	725	458	437	321	272	208
19.....	208	208	167	698	1580	845	725	458	437	321	272	208
20.....	208	208	167	845	1580	845	725	437	437	321	272	208
21.....	208	208	167	900	1580	845	725	437	437	321	257	208
22.....	208	208	167	1160	1580	845	725	417	437	321	257	208
23.....	208	187	167	1260	1580	845	725	417	437	321	257	208
24.....	208	187	163	1360	1580	845	725	397	397	358	257	208
25.....	208	187	163	1470	1580	845	698	397	437	358	257	208
26.....	208	187	163	1580	1580	845	698	397	397	340	257	198
27.....	208	183	163	1690	1470	845	670	358	397	340	257	198
28.....	208	183	163	1930	1470	845	670	321	397	340	257	187
29.....	208	183	163	2050	1470	845	670	321	397	321	257	187
30.....	208	.....	158	2050	1470	845	644	304	397	321	244	187
31.....	208	.....	158	.....	1470	.....	644	287	.....	321	.....	187

DAILY DISCHARGE IN SECOND-FEET—VERMILION RIVER—OUTLET LAKE VERMILION, MINN.  
—Concluded

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1.	187	158	139	134	272	272	378	272	208			
2.	187	158	139	134	287	272	378	272	187			
3.	187	158	139	134	287	272	378	272	187			
4.	187	148	130	134	304	272	378	257	187			
5.	187	148	130	130	304	272	397	257	187			
6.	187	148	130	130	321	257	378	244	183			
7.	187	148	130	130	321	257	378	244	183			
8.	187	148	130	130	321	257	378	244	177			
9.	187	148	130	134	321	257	378	244	177			
10.	183	148	130	134	340	257	378	236	171			
11.	183	148	130	134	340	257	378	236	167			
12.	183	148	130	134	340	257	378	231	167			
13.	177	148	139	134	340	257	378	231	163			
14.	177	148	139	134	340	257	378	220	163			
15.	177	148	139	139	340	257	358	220	158			
16.	171	148	139	139	340	257	358	220	158			
17.	171	148	139	139	340	257	358	208	158			
18.	171	139	139	139	340	272	358	208	158			
19.	171	139	139	139	340	287	358	208	152			
20.	167	139	139	148	321	287	340	208	152			
21.	167	139	139	158	321	304	340	198	148			
22.	167	139	139	171	321	321	340	198	148			
23.	167	139	139	198	321	340	340	208	144			
24.	167	139	139	220	321	358	340	208	139			
25.	167	139	139	231	304	378	340	208	139			
26.	167	139	139	231	287	378	321	208	134			
27.	163	139	139	231	287	378	321	208	134			
28.	158	139	139	231	287	378	304	208	130			
29.	158	139	139	257	287	378	304	208	130			
30.	158	139	139	272	272	378	287	208	130			
31.	158	134	134	272	272	378	287	208	130			

NOTE.—Station discontinued September 30, 1917.

SUMMARY OF MEAN MONTHLY DISCHARGE IN SECOND-FEET—VERMILION RIVER—  
OUTLET OF LAKE VERMILION, MINN.

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Month	1911	1912	1913	1914	1915	1916	1917
January		127	98	118	109	208	175
February		117	98	125	106	203	146
March		95	98	128	87	171	136
April		117	130	145	88	710	163
May (17-31)	522	490	598	884	198	1700	314
June	524	454	1250	674	607	1000	296
July	309	209	685	497	843	752	354
August	236	107	177	298	461	477	226
September	197	113	70	226	189	395	161
October	152	111	84	193	189	346	
November	122	98	102	145	208	286	
December	130	98	123	115	226	216	

## DISCHARGE MEASUREMENTS OF KETTLE RIVER ABOVE KETTLE FALLS

RECORDS OF MANITOBA HYDROGRAPHIC SURVEY  
INTERNATIONAL CHANNEL

Date	Hydrographer	Width	Area	Mean velocity	Water level, D. P. W. datum	Discharge c. f. s.
		Feet	Sq. ft.	Ft. per sec.		
1912						
Aug. 8.	Scovil	213	4351	0.77	500.67	3345
Sept. 6.	Pirie	213	4353	0.68	500.05	2960
9.	Richardson	213	4318	0.64	500.10	2775
30.	Pirie	213	4341	0.69	499.65	2548
Nov. 2.	Nelson	213	4193	0.49	498.99	2037
4.	"	213	4156	0.48	498.98	1999
1913						
Jan. 10.	Pirie	208	3981	0.33	498.13	1312
10.	"	208	3981	0.33	498.13	1298
Mar. 17.	"	210	3888	0.28	497.60	1105
May 31.	"	223	5246	1.22	503.41	6375
July 3*	Jamieson	224	4997	1.33	503.58	6668
30*	"	221	4445	0.96	502.18	4535

RAINY LAKE INVESTIGATION

DISCHARGE MEASUREMENTS OF KETTLE RIVER ABOVE KETTLE FALLS—Concluded  
RECORDS OF MANITOBA HYDROGRAPHIC SURVEY  
INTERNATIONAL CHANNEL

Date	Hydrographer	Width	Area	Mean velocity	Water level D.P.W. datum	Discharge c. f. s.
		Feet	Sq. ft.	Ft. per sec.		
June 5* 1922	Low and Smalian	240	5680	0.64	506.05	4040 (1)
Sept. 4	C. O. Allen	99	1360	2.76	506.50	3760 (2)

CANADIAN CHANNEL

Aug. 8 1912	Scovil	120	1273	1.13	500.69	1435
Sept. 6	Pirie	115	1207	0.90	500.04	1088
9	Richardson	118	1181	0.80	500.06	942
29	Pirie	115	1193	0.75	499.70	901
30	"	115	1191	0.70	499.64	834
Nov. 2	Nelson	108	1100	0.50	499.00	546
4	"	108	1184	0.52	498.99	561
Jan. 9 1913	Pirie	102	975	0.34	498.13	328
9	"	102	975	0.33	498.13	324
Mar. 15	"	102	936	0.23	497.61	212
May 31	"	183	1719	2.38	503.39	4088
July 2*	Jamieson	192	1723	2.13	503.68	4015
29-30*	"	145	1466	1.55	502.23	2562

\*Record of the Department of Public Works, Canada.  
(1) (2) Lake controlled by Kettle Falls dams, Canadian channel closed.  
Elevations refer to P.W.D. (Canada) datum.  
Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

NAMAKAN LAKE

RELATION BETWEEN LAKE STAGE AND OUTFLOW—NAMAKAN LAKE IN STATE OF NATURE

LAKE LEVEL IS REFERRED TO P.W.D. (CANADA) DATUM

Lake level	Discharge c.f.s.	Difference c.f.s.	Lake level	Discharge c.f.s.	Difference c.f.s.	Lake level	Discharge c.f.s.	Difference c.f.s.	Lake level	Discharge c.f.s.	Difference c.f.s.
496.00	900	10	500.00	3800	140	504.00	11800	270	508.00	22600	270
496.10	910	10	500.10	3940	140	504.10	12070	270	508.10	22870	270
496.20	920	10	500.20	4080	140	504.20	12340	270	508.20	23140	270
496.30	930	10	500.30	4220	140	504.30	12610	270	508.30	23410	270
496.40	940	10	500.40	4360	140	504.40	12880	270	508.40	23680	270
496.50	950	20	500.50	4500	160	504.50	13150	270	508.50	23950	270
496.60	960	20	500.60	4660	160	504.60	13420	270	508.60	24220	270
496.70	990	20	500.70	4820	160	504.70	13690	270	508.70	24490	270
496.80	1010	20	500.80	4980	160	504.80	13960	270	508.80	24760	270
496.90	1030	20	500.90	5140	160	504.90	14230	270	508.90	25030	270
497.00	1050	40	501.00	5300	170	505.00	14500	270	509.00	25300	270
497.10	1090	40	501.10	5470	170	505.10	14770	270	509.10	25570	270
497.20	1130	40	501.20	5640	170	505.20	15050	270	509.20	25840	270
497.30	1170	40	501.30	5810	170	505.30	15310	270	509.30	26110	270
497.40	1210	40	501.40	5980	170	505.40	15580	270	509.40	26380	270
497.50	1250	60	501.50	6150	190	505.50	15850	270	509.50	26650	270
497.60	1310	60	501.60	6340	190	505.60	16120	270	509.60	26920	270
497.70	1370	60	501.70	6530	190	505.70	16390	270	509.70	27190	270
497.80	1430	60	501.80	6720	190	505.80	16660	270	509.80	27460	270
497.90	1490	60	501.90	6910	190	505.90	16930	270	509.90	27730	270
498.00	1550	90	502.00	7100	210	506.00	17200	270	510.00	28000	270
498.10	1640	90	502.10	7310	210	506.10	17470	270			
498.20	1730	90	502.20	7520	210	506.20	17740	270			
498.30	1820	90	502.30	7730	210	506.30	18010	270			
498.40	1910	90	502.40	7940	210	506.40	18280	270			
498.50	2000	110	502.50	8150	230	506.50	18550	270			
498.60	2110	110	502.60	8380	230	506.60	18820	270			
498.70	2220	110	502.70	8610	230	506.70	19090	270			
498.80	2330	110	502.80	8840	230	506.80	19360	270			
498.90	2440	110	502.90	9070	230	506.90	19630	270			
499.00	2550	120	503.00	9300	250	507.00	19900	270			
499.10	2670	120	503.10	9550	250	507.10	20170	270			
499.20	2790	120	503.20	9800	250	507.20	20440	270			
499.30	2910	120	503.30	10050	250	507.30	20710	270			
499.40	3030	120	503.40	10300	250	507.40	20980	270			
499.50	3150	130	503.50	10550	250	507.50	21250	270			
499.60	3280	130	503.60	10800	250	507.60	21520	270			
499.70	3410	130	503.70	11050	250	507.70	21790	270			
499.80	3450	130	503.80	11300	250	507.80	22060	270			
499.90	3670	130	503.90	11550	250	507.90	22330	270			



## WATER LEVELS—LAKE NAMAKAN—KETTLE FALLS

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1									499-06	499-62	499-06	498-53
2									499-02	499-53	499-01	498-53
3									499-86	499-51	498-98	498-53
4									499-86	499-55	498-97	498-53
5									500-05	499-56	498-93	498-53
6									500-03	499-57	498-91	498-53
7									500-03	499-58	498-88	498-52
8								500-07	500-03	499-55	498-85	498-48
9									500-13	499-53	498-85	498-43
10								500-07	500-13	499-51	498-83	498-43
11								500-66	500-13	499-50	498-82	498-43
12								500-56	500-13	499-49	498-82	498-43
13								500-66	500-11	499-48	498-81	498-23
14								500-49	500-04	499-48	498-78	498-23
15								500-47	500-03	499-43	498-76	498-23
16								500-41	500-01	499-41	498-81	498-13
17								500-40	499-95	499-40	498-78	498-13
18								500-38	499-92	499-35	498-73	498-13
19								500-34	499-85	499-28	498-75	498-33
20								500-31	499-85	499-27	498-78	498-33
21								500-29	499-81	499-25	498-73	498-33
22								500-23	499-79	499-23	498-71	498-33
23								500-18	499-73	499-20	498-69	498-23
24								500-17	499-75	499-19	498-67	498-23
25								500-14	499-75	499-16	498-65	498-23
26								500-08	499-73	499-13	498-63	498-23
27								500-06	499-68	499-11	498-69	498-23
28								500-08	499-68	499-05	498-73	498-23
29								500-06	499-71	499-03	498-63	498-23
30								500-04	499-64	499-05	498-69	498-23
31								500-02		499-10		498-23
1913												
1	498-23	497-93	497-63	497-56	499-98	503-63	503-73	502-08	500-43	499-43		499-22
2	498-23	497-93	497-63	497-56	500-08	503-83	503-68	501-93	500-33	499-41		499-25
3	498-13	497-93	497-63	497-58	500-18	504-01	503-58	501-98	500-33	499-33		499-28
4	498-13	497-93	497-63	497-58	500-28	502-11	503-51	501-88	500-33	499-33		499-30
5	498-13	497-93	497-63	497-59	500-38	504-27	503-55	501-78	500-33	499-43	499-22	499-30
6	498-13	497-93	497-63	497-59	500-38	504-35	503-48	501-73	500-23	499-33	499-20	499-34
7	498-13	497-93	497-63	497-59	500-53	504-43	503-38	501-68	500-13	499-43	499-20	499-30
8	498-13	497-83	497-63	497-59	500-68	504-45	503-38	501-63	500-03	499-43	499-22	499-30
9	498-13	497-83	497-63	497-60	500-75	504-49	503-33	501-53	500-03	499-43	499-16	499-30
10	498-13	497-83	497-53	497-60	500-83	504-55	503-33	501-51	500-13	499-48	499-15	499-30
11	498-13	497-83	497-53	497-60	500-93	504-55	503-23	501-45	500-11	499-51	499-15	499-30
12	498-13	497-83	497-57	497-61	501-13	504-55	503-18	501-41	500-08	499-55	499-15	499-30
13	498-13	497-83		497-65	501-05	504-55	503-13	501-23	500-03	498-70	499-15	499-30
14	498-13	497-83		497-81	501-13	504-55	503-11	501-18	499-93	498-70	499-12	499-28
15	498-13	497-83	497-61	497-91	501-33	504-55	503-11	501-18	499-89	498-75	499-10	499-28
16	498-13	497-83	497-61	498-05	501-43	504-53	503-11	501-18	499-83	498-72	499-10	499-28
17	498-13	497-73	497-60	498-18	501-55	504-43	503-11	501-18	499-81	498-72	499-08	499-25
18	498-13	497-73	497-60	498-33	501-63	504-33	503-08	501-20	499-78	498-70	499-08	499-25
19	498-13	497-73	497-60	498-43	501-73	504-33	502-93	501-03	499-83		499-10	499-24
20	498-03	497-73	497-59	498-61	501-78	504-23	502-93	501-01	499-73		499-06	499-24
21	498-03	497-73	497-59	498-73	501-93	504-15	502-93	500-93	499-63		499-12	499-20
22	498-03	497-73	497-59	498-83	502-03	504-15	502-88	500-93	499-63		499-10	499-20
23	498-03	497-73	497-60	498-98	502-15	504-11	502-75	500-83	499-61		499-15	499-18
24	498-03	497-73	497-61	499-08	502-23	504-09	502-65	500-73	499-58		499-14	499-15
25	498-03	497-73	497-62	499-23	502-33	504-07	502-59	500-69	499-58		499-15	499-15
26	498-03	497-63	497-61	499-38	502-48	504-03	502-55	500-67	499-56		499-10	499-15
27	498-03	497-63	497-61	499-48	502-58	503-93	502-48	500-63	499-53		499-15	499-12
28	497-93	497-63	497-61	499-63	502-71	503-83	502-33	500-58	499-51		499-14	499-12
29	497-93		497-60	499-75	502-83	503-83	502-28	500-51	499-49		499-20	499-12
30	497-93		497-58	499-83	503-11	503-85	502-18	500-48			499-22	499-10
31	497-93		497-56		503-38		502-13	500-43				499-08

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE NAMAKAN—KETTLE FALLS

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1.	499-06	498-75	498-50	498-48	500-70	506-66	508-65	508-73	508-24	506-80	504-70	503-10
2.	499-06	498-75	498-50	498-48	500-90	506-70	508-61	508-72	508-20	506-72	504-62	503-05
3.	499-06	498-72	498-50	498-48	501-10	506-90	508-56	508-72	508-15	506-62	504-52	503-00
4.	499-06	498-72	498-44	498-50	501-32	506-99	508-55	508-72	508-10	506-52	504-47	503-00
5.	499-04	498-72	498-44	498-50	501-60	507-27	508-53	508-71	508-09	506-45	504-42	502-95
6.	499-04	498-72	498-42	498-50	501-80	507-30	508-53	508-66	508-04	506-40	504-35	502-85
7.	499-00	498-72	498-42	498-52	502-00	507-42	508-50	508-64	508-01	506-30	504-27	502-80
8.		498-72	498-42	498-52	502-24	507-50	508-54	508-61	507-96	506-20	504-27	502-80
9.		498-70	498-42	498-52	502-40	507-78	508-54	508-63	507-90	506-15	504-25	502-75
10.		498-70	498-38	498-52	502-60	508-04	508-54	508-65	507-94	506-08	504-20	502-70
11.			498-38	498-52	502-80	508-13	508-56	508-68	507-90	506-00	504-10	502-70
12.			498-38	498-52	502-90	508-34	508-60	508-66	507-87	505-95	504-05	502-65
13.			498-38	498-52	503-10	508-44	508-63	508-66	507-86	505-89	504-00	502-55
14.			498-38	498-54	503-14	508-61	508-65	508-63	507-84	505-83	504-00	502-55
15.			498-38	498-58	503-28	508-71	508-68	508-59	507-83	505-75	504-00	502-55
16.			498-38	498-60	503-40	508-84	508-77	508-59	507-82	507-67	503-95	502-45
17.			498-40	498-70	503-50	508-92	508-75	508-58	507-79	507-63	503-88	502-45
18.			498-40	498-80	503-60	508-92	508-75	508-55	507-80	507-55	503-80	502-40
19.			498-40	499-00	503-90	508-90	508-75	508-53	507-82	507-50	503-77	502-35
20.			498-40	499-14	504-20	508-90	508-73	508-53	507-78	507-45	503-70	502-30
21.			498-40	499-28	504-47	508-88	508-70	508-49	507-76	505-40	503-65	502-30
22.			498-40	499-38	504-77	508-88	508-68	508-46	507-70	505-33	503-55	502-25
23.			498-40	499-46	505-03	508-83	508-68	508-43	507-60	505-33	503-50	502-20
24.			498-38	499-60	505-28	508-80	508-69	508-42	507-50	505-30	503-45	502-20
25.			498-38	499-70	505-47	508-75	508-70	508-37	507-38	505-20	503-40	502-20
26.	498-92		498-45	499-84	505-72	508-72	508-67	508-39	507-25	505-15	503-35	502-15
27.	498-80		498-48	499-94	505-9-1	508-75	508-69	508-37	507-17	505-07	503-30	502-10
28.	498-80		498-48	500-16	506-05	508-70	508-71	508-34	507-07	505-00	503-25	502-10
29.	498-80		498-48	500-34	506-38	508-65	508-75	508-31	507-00	504-95	503-20	502-05
30.	498-75		498-48	500-50	506-43	508-60	508-75	508-29	506-90	504-90	503-15	502-05
31.	498-75		498-48		506-59		508-75	508-21		504-85		502-00
1915												
1.	502-00	501-25	500-70	500-30	498-90	498-30	502-55	506-66	505-05	502-55	500-88	500-09
2.	501-95	501-15	500-70	500-30	498-80	498-30	502-65	506-66	504-95	502-50	500-80	500-08
3.	501-95	501-20	500-65	500-30	498-70	498-30	502-90	506-66	504-90	502-43	500-70	500-05
4.	501-90	501-15	500-60	500-30	498-65	498-30	503-20	506-65	504-80	502-35	500-60	500-04
5.	501-85	501-15	500-60	500-35	498-60	498-25	503-45	506-66	504-72	502-30	500-57	500-03
6.	501-85	501-10	500-60	500-35	498-52	498-35	503-65	506-66	504-61	502-32	500-54	500-00
7.	501-80	501-10	500-65	500-35	498-50	498-30	503-90	506-64	504-51	502-30	500-47	500-02
8.	501-80	501-05	500-55	500-35	498-52	498-25	504-15	506-61	504-43	502-25	500-50	500-03
9.	501-80	501-00	500-55	500-40	498-48	498-35	504-35	506-61	504-34	502-17	500-47	500-01
10.	501-75	501-00	500-50	500-40	498-43	498-35	504-50	506-58	504-25	502-17	500-39	500-00
11.	501-75	501-00	500-50	500-45	498-44	498-50	504-65	506-54	504-14	502-10	500-45	499-99
12.	501-70	501-00	500-50	500-45	498-42	498-55	504-75	506-48	504-00	502-07	500-45	499-97
13.	501-70	500-95	500-50	500-50	498-38	498-85	505-00	506-45	503-92	502-06	500-36	499-96
14.	501-65	501-00	500-45	500-50	498-36	499-00	505-10	506-40	503-83	502-05	500-40	499-94
15.	501-05	500-95	500-45	500-55	498-30	499-20	505-30	506-40	503-75	502-02	500-38	499-93
16.	501-65	500-90	500-45	500-55	498-30	499-45	505-40	506-30	503-64	502-03	500-35	499-90
17.	501-60	500-90	500-45	500-40	498-27	499-65	505-45	506-26	503-54	502-02	500-30	499-89
18.	501-55	500-90	500-40	500-35	498-30	499-80	505-55	506-22	503-55	502-00	500-30	499-87
19.	501-60	500-85	500-40	500-25	498-30	500-00	505-70	506-15	503-46	502-00	500-28	499-85
20.	501-55	500-85	500-40	500-10	498-30	500-25	505-80	506-10	503-38	502-02	500-30	499-80
21.	501-50	500-85	500-40	500-00	498-30	500-40	505-85	506-00	503-30	501-95	500-35	499-78
22.	501-50	500-80	500-40	499-85	498-31	500-65	505-90	505-95	503-20	501-85	500-22	499-76
23.	501-50	500-80	500-40	499-70	498-32	500-80	506-05	505-88	503-14	501-75	500-20	499-76
24.	501-45	500-80	500-40	499-65	498-32	500-95	506-15	505-75	503-00	501-62	500-20	499-74
25.	501-40	500-75	500-35	499-50	498-30	501-10	506-25	505-68	503-00	501-57	500-18	499-71
26.	501-40	500-75	500-35	499-40	498-30	501-25	506-35	505-60	502-90	501-49	500-17	499-70
27.	501-40	500-70	500-35	499-30	498-27	501-55	506-40	505-51	502-83	501-35	500-15	499-68
28.	501-35	500-70	500-35	499-20	498-30	501-80	506-50	505-42	502-75	501-25	500-22	499-65
29.	501-30		500-35	499-10	498-29	502-00	506-60	505-34	502-70	501-12	500-12	499-61
30.	501-30		500-35	499-00	498-30	502-20	506-65	505-25	502-61	501-02	500-10	499-60
31.	501-25		500-30		498-31		506-65	505-15		500-98		499-57

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## WATER LEVELS—LAKE NAMAKAN—KETTLE FALLS—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D.P.W. Datum.—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	499-53	498-92	498-32	497-70	506-38	510-97	509-00	508-42	507-22	507-42	508-35	507-87
2	499-53	498-89	498-29	497-70	506-90	510-90	508-97	508-40	507-12	507-50	508-35	507-83
3	499-50	498-87	498-25	497-68	507-38	510-83	508-90	508-38	507-22	507-55	508-36	507-75
4	499-48	498-85	498-20	497-68	507-85	510-78	508-85	508-37	507-33	507-65	508-40	507-70
5	499-46	498-81	498-18	497-66	508-28	510-69	508-82	508-30	507-31	507-70	508-40	507-67
6	499-41	498-80	498-15	497-66	508-65	510-61	508-80	508-32	507-30	507-73	508-44	507-58
7	499-38	498-77	498-14	497-65	509-10	510-58	508-77	508-30	507-35	507-76	508-47	507-58
8	499-35	498-76	498-14	497-63	509-50	510-54	508-75	508-28	507-37	507-78	508-46	507-49
9	499-32	498-73	498-12	497-61	509-85	510-51	508-76	508-26	507-35	507-80	508-48	507-40
10	499-35	498-71	498-11	497-60	510-35	510-48	508-76	508-24	507-40	507-85	508-42	507-37
11	499-31	498-70	498-10	497-60	510-50	510-48	508-79	508-20	507-40	507-86	508-40	507-30
12	499-30	498-69	498-08	497-60	510-70	510-28	508-78	508-10	507-36	507-90	508-39	507-20
13	499-27	498-67	498-06	497-68	511-00	510-20	508-75	508-10	507-38	507-90	508-37	507-10
14	499-25	498-65	498-05	497-85	511-00	510-16	508-74	507-95	507-50	507-97	508-33	507-04
15	499-23	498-62	498-02	498-00	511-10	510-12	508-74	507-88	507-53	507-90	508-32	507-00
16	499-20	498-62	498-00	498-28	511-20	510-00	508-71	507-86	507-50	507-98	508-27	506-90
17	499-19	498-60	497-92	498-60	511-18	509-94	508-68	507-88	507-50	507-97	508-25	506-80
18	499-17	498-57	497-89	498-93	511-20	509-85	508-63	507-80	507-51	508-00	508-22	506-70
19	499-16	498-55	497-88	499-36	511-17	509-77	508-68	507-80	507-53	508-04	508-20	506-60
20	499-12	498-53	497-85	499-86	511-16	509-68	508-60	507-74	507-56	508-06	508-15	506-55
21	499-10	498-50	497-84	500-47	511-18	509-61	508-56	507-65	507-62	508-08	508-13	506-45
22	499-10	498-50	497-82	501-00	511-18	509-51	508-53	507-70	507-60	508-09	508-10	506-38
23	499-06	498-48	497-81	501-53	511-25	509-50	508-58	507-68	507-60	508-10	508-08	506-29
24	498-98	498-45	497-78	502-08	511-18	509-48	508-50	507-61	507-57	508-12	508-03	506-19
25	498-96	498-40	497-78	502-74	511-09	509-35	508-46	507-58	507-56	508-10	508-02	506-10
26	498-94	498-37	497-78	503-50	511-12	509-33	508-46	507-53	507-50	508-15	508-00	506-00
27	498-95	498-36	497-76	504-00	511-12	509-21	508-47	507-50	507-47	508-20	507-97	505-98
28	498-95	498-35	497-75	504-70	511-14	509-12	508-47	507-44	507-42	508-22	507-94	505-90
29	498-95	498-33	497-73	505-25	511-05	509-08	508-47	507-38	507-32	508-26	507-90	505-80
30	498-93	498-30	497-70	505-85	511-00	509-05	508-48	507-26	507-39	508-28	507-90	505-74
31	498-92	498-27	497-70	506-50	510-95	508-95	508-46	507-25	507-35	508-30	507-80	505-64
1917												
1	505-56	501-32	498-87	497-61	498-37	498-92	498-55	499-35	498-37	497-70	497-41	497-25
2	505-46	501-17	498-82	497-58	498-45	499-90	498-53	499-25	498-30	497-67	497-39	497-25
3	505-35	501-05	498-78	497-55	498-54	498-87	498-50	499-20	498-27	497-63	497-40	497-24
4	505-25	500-90	498-71	497-48	498-58	498-86	498-54	499-15	498-25	497-63	497-38	497-23
5	505-15	500-80	498-65	497-45	498-66	498-80	498-55	499-20	498-28	497-58	497-40	497-21
6	505-00	500-65	498-60	497-42	498-70	498-76	498-60	499-15	498-18	497-55	497-38	497-20
7	504-90	500-53	498-54	497-40	498-75	498-75	498-66	499-10	498-14	497-57	497-40	497-20
8	504-80	500-42	498-51	497-39	498-81	498-75	498-70	499-10	498-12	497-50	497-38	497-18
9	504-69	500-32	498-46	497-38	498-85	498-74	498-71	499-08	498-10	497-44	497-40	497-17
10	504-60	500-22	498-42	497-35	498-90	498-71	498-73	499-04	498-08	497-43	497-40	497-17
11	504-48	500-12	498-36	497-35	498-95	498-66	498-80	499-01	498-05	497-42	497-40	497-16
12	504-35	500-00	498-35	497-34	498-95	498-70	498-85	498-99	498-00	497-38	497-40	497-15
13	504-24	499-91	498-27	497-33	498-99	498-65	498-88	498-97	497-98	497-38	497-40	497-14
14	504-10	499-82	498-30	497-32	499-02	498-60	498-90	498-90	497-98	497-36	497-42	497-15
15	503-95	499-73	498-24	497-32	499-05	498-52	498-95	498-92	497-97	497-34	497-40	497-13
16	503-86	499-64	498-19	497-32	499-07	498-55	499-02	498-87	497-95	497-32	497-43	497-11
17	503-70	499-62	498-18	497-33	499-08	498-53	499-05	498-83	497-94	497-29	497-42	497-10
18	503-48	499-57	498-12	497-35	499-10	498-52	499-10	498-80	497-93	497-38	497-35	497-08
19	503-30	499-50	498-08	497-39	499-10	498-50	499-14	498-78	497-92	497-38	497-35	497-04
20	503-13	499-44	498-04	497-48	499-10	498-48	499-15	498-70	497-95	497-39	497-34	497-05
21	502-95	499-33	498-00	497-55	499-10	498-45	499-18	498-65	497-92	497-36	497-33	497-03
22	502-80	499-28	497-95	497-63	499-10	498-42	499-23	498-63	497-90	497-30	497-32	497-03
23	502-65	499-24	497-92	497-70	499-10	498-44	499-25	498-66	497-89	497-29	497-32	497-02
24	502-49	499-18	497-88	497-78	499-09	498-46	499-28	498-60	497-88	497-28	497-32	497-02
25	502-35	499-10	497-85	497-84	499-07	498-47	499-30	498-55	497-84	497-38	497-31	497-02
26	502-20	499-05	497-81	497-95	499-05	498-48	499-30	498-60	497-85	497-40	497-30	497-00
27	502-03	499-00	497-78	498-02	499-02	498-45	499-30	498-50	497-78	497-45	497-31	497-00
28	501-88	498-95	497-73	497-50	499-00	498-48	499-27	498-45	497-78	497-44	497-30	497-00
29	501-74	498-80	497-70	497-25	498-98	498-49	499-30	498-40	497-80	497-45	497-30	497-00
30	501-60	498-65	497-67	497-10	498-99	498-42	499-30	498-37	497-71	497-44	497-30	496-98
31	501-46	498-50	497-65	497-00	498-95	498-35	499-30	498-35	497-60	497-42	497-30	496-97

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE NAMAKAN—KETTLE FALLS—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D.P.W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1	496-95	496-42	495-84	495-60	496-50	499-10	501-61	501-76	500-06	498-50	496-67	496-54
2	496-92	496-40	495-80	495-61	496-60	499-15	501-70	501-70	500-00	498-42	496-63	496-52
3	496-90	496-39	495-79	495-62	496-67	499-25	501-75	501-65	499-95	498-30	496-60	496-54
4	496-88	496-36	495-73	495-68	496-72	499-32	501-90	501-61	499-90	498-20	496-55	496-51
5	496-86	496-24	495-74	495-70	496-82	499-40	502-00	501-55	499-87	498-25	496-50	496-49
6	496-84	496-20	495-74	495-70	496-84	499-53	502-00	501-50	499-75	498-20	496-47	496-48
7	495-83	496-20	495-73	495-73	497-00	499-63	501-95	501-43	499-70	498-10	496-45	496-47
8	496-80	496-16	495-70	495-75	497-10	499-73	501-98	501-37	499-65	498-07	496-50	496-46
9	496-78	496-13	495-67	495-76	497-22	499-85	502-00	501-29	499-60	498-00	496-54	496-46
10	493-76	495-11	495-67	495-76	497-28	499-93	502-02	501-25	499-53	497-93	496-53	496-45
11	496-74	496-07	495-66	495-75	497-33	500-10	502-03	501-18	499-59	497-82	496-50	496-46
12	496-73	496-07	495-64	495-78	497-50	500-15	502-05	501-10	499-47	497-79	496-59	496-45
13	496-71	496-06	495-60	495-87	497-56	500-26	502-06	501-08	499-42	497-66	496-54	496-44
14	496-68	496-06	495-59	495-80	497-64	500-30	502-09	501-03	499-39	497-57	496-53	496-42
15	496-66	496-05	495-57	495-81	497-68	500-38	502-10	501-00	499-35	497-50	496-53	496-40
16	496-64	496-04	495-55	495-80	497-81	500-40	502-10	500-90	499-30	497-45	496-58	496-37
17	496-63	496-02	495-53	495-85	497-92	500-47	502-10	500-85	499-23	497-35	496-58	496-34
18	496-64	496-00	495-50	495-87	497-96	500-53	502-10	500-80	499-20	497-30	496-61	496-35
19	496-64	496-00	495-50	495-90	498-03	500-55	502-07	500-68	499-12	497-25	496-63	496-35
20	496-62	495-99	495-48	495-92	498-15	500-61	502-05	500-65	499-09	497-22	496-65	496-34
21	496-60	495-98	495-50	495-66	498-17	500-68	502-05	500-60	499-05	497-16	496-62	496-34
22	495-58	495-98	495-48	496-05	498-30	500-70	502-01	500-56	498-98	497-10	496-65	496-34
23	496-54	495-98	495-48	496-07	498-32	500-77	501-98	500-50	498-90	497-00	496-64	496-33
24	496-52	495-90	495-47	496-03	498-40	500-90	501-97	500-46	498-87	496-98	496-65	496-32
25	496-52	495-89	495-47	496-03	498-45	501-00	501-95	500-36	498-82	496-95	496-67	496-29
26	496-50	495-88	495-48	496-07	498-50	501-15	501-95	500-33	498-79	496-90	496-58	496-29
27	496-48	495-85	495-48	496-07	498-58	501-30	501-86	500-28	498-75	496-86	496-59	496-26
28	496-47	495-83	495-49	496-05	498-67	501-40	501-99	500-27	498-70	496-83	496-56	496-24
29	496-46	495-80	495-50	496-32	498-75	501-44	501-87	500-16	498-62	496-80	496-58	496-24
30	496-45	495-78	495-51	496-40	498-81	501-55	501-80	500-12	498-56	496-75	496-55	496-21
31	496-44	495-76	495-54	496-40	498-88	501-60	501-78	500-08	498-50	496-71	496-54	496-21
1919												
1	496-20	495-70	495-37	495-31	498-38	501-21	502-40	504-38	505-41	501-50	498-15	497-40
2	496-18	495-68	495-37	495-32	498-50	501-22	502-43	504-41	505-41	501-40	498-10	497-39
3	496-17	495-67	495-36	495-32	498-59	501-22	502-60	504-44	505-41	501-32	498-06	497-37
4	496-15	495-66	495-35	495-35	498-70	501-23	502-65	504-46	505-42	501-10	497-97	497-36
5	496-13	495-65	495-34	495-43	498-84	501-27	502-74	504-54	505-41	500-98	497-92	497-35
6	496-11	495-63	495-33	495-50	498-94	501-30	502-80	504-58	505-41	500-85	497-85	497-33
7	496-10	495-62	495-32	495-60	499-12	501-35	502-85	504-58	505-43	500-74	497-78	497-32
8	496-10	495-61	495-31	495-70	499-26	501-40	502-93	504-62	505-41	500-65	497-72	497-30
9	496-04	495-60	495-30	495-80	499-40	501-42	502-02	504-65	505-45	500-54	497-67	497-28
10	496-03	495-58	495-29	495-90	499-52	501-42	503-00	504-67	505-48	500-50	497-66	497-28
11	496-02	495-57	495-28	495-97	499-64	501-43	503-05	504-70	505-45	500-38	497-73	497-28
12	496-00	495-56	495-27	496-05	499-80	501-45	503-10	504-71	505-46	500-25	497-70	497-26
13	495-99	495-55	495-26	496-18	499-90	501-50	503-23	504-91	505-37	500-14	497-67	497-26
14	495-98	495-53	495-25	496-30	500-02	501-50	503-35	504-94	505-19	499-98	497-62	497-25
15	495-97	495-52	495-25	496-38	500-13	501-50	503-43	504-98	504-80	499-88	497-60	497-24
16	495-95	495-51	495-24	496-50	500-25	501-56	503-55	505-06	504-55	499-75	497-62	497-24
17	495-94	495-50	495-22	496-62	500-35	501-65	503-58	505-14	504-25	499-65	497-62	497-21
18	495-92	495-48	495-21	496-75	500-46	501-77	503-60	505-20	504-04	499-50	497-60	497-20
19	495-90	495-47	495-20	496-87	500-60	501-82	503-70	505-23	503-80	499-40	497-58	497-20
20	495-89	495-47	495-18	496-98	500-63	501-86	503-78	505-27	503-45	499-24	497-55	497-19
21	495-87	495-46	495-18	497-10	500-70	501-94	503-90	505-30	503-25	499-12	497-54	497-18
22	495-85	495-43	495-17	497-20	500-78	502-00	503-95	505-35	503-00	498-95	497-52	497-17
23	495-83	495-43	495-17	497-35	500-85	502-13	504-00	505-37	502-78	498-85	497-50	497-15
24	495-85	495-44	495-19	497-50	500-90	502-20	504-02	505-36	502-55	498-83	497-46	497-15
25	495-85	495-42	495-23	497-63	501-00	502-25	504-05	505-36	502-32	948-76	497-45	497-16
26	495-81	495-41	495-26	497-76	501-03	502-27	504-11	505-38	502-10	498-67	497-43	497-16
27	495-77	495-40	495-24	497-90	501-08	502-27	504-18	505-38	502-05	498-52	497-40	497-15
28	495-76	495-39	495-28	498-02	501-12	502-32	504-23	505-40	501-85	498-48	497-39	497-15
29	495-75	495-38	495-29	498-15	501-16	502-35	504-27	505-41	501-75	498-39	497-40	497-15
30	495-74	495-37	495-30	498-25	501-15	502-38	504-30	505-40	501-66	498-28	497-40	497-13
31	495-72	495-36	495-30	498-35	501-19	502-40	504-34	505-41	498-22	498-22	497-12	497-12

## WATER LEVELS—LAKE NAMAKAN—KETTLE FALLS—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to P.W.D. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1	497-11	496-78	496-29	496-48	499-16	502-25	508-70	508-42	507-18	505-25	501-72	497-70
2	497-10	496-77	496-25	496-55	499-28	502-55	508-62	508-40	507-15	505-15	501-50	497-65
3	497-10	496-75	496-22	496-65	499-40	502-80	508-46	508-38	507-12	505-05	501-32	497-60
4	497-09	496-74	496-18	496-71	499-50	503-20	508-50	508-38	507-08	504-90	501-04	497-55
5	497-08	496-72	496-16	496-72	499-60	503-55	508-50	508-40	507-04	504-85	500-85	497-50
6	497-06	496-70	496-15	496-75	499-71	503-85	508-50	508-35	506-98	504-70	500-70	497-45
7	497-05	496-69	496-15	496-81	499-80	504-20	508-47	508-34	506-94	504-65	500-54	497-40
8	497-05	496-68	496-15	496-86	499-88	504-48	508-52	508-33	506-88	504-50	500-32	497-30
9	497-04	496-67	496-12	496-89	499-98	504-90	508-52	508-32	506-80	504-45	500-20	497-25
10	497-03	496-66	496-11	496-94	500-00	505-36	508-52	508-30	506-75	504-34	500-00	497-20
11	497-00	496-64	496-07	496-97	500-06	505-60	508-50	508-32	506-73	504-25	499-80	497-15
12	497-00	496-63	496-06	497-00	500-12	505-80	508-48	508-30	506-68	504-15	499-70	497-10
13	496-99	496-62	496-03	497-05	500-20	506-15	508-47	508-25	506-63	504-00	499-60	497-05
14	496-98	496-60	496-03	497-10	500-27	506-45	508-48	508-22	506-55	503-95	499-50	497-00
15	496-97	496-58	496-00	497-15	500-32	506-70	508-45	508-15	506-55	503-90	499-30	497-00
16	496-95	496-55	496-00	497-20	500-35	507-00	508-48	508-07	506-45	503-85	499-20	496-95
17	496-94	496-55	596-99	497-28	500-42	507-25	508-50	508-03	506-40	503-76	499-00	496-90
18	496-92	496-53	495-95	497-37	500-48	507-50	508-70	508-00	506-35	503-68	498-85	496-85
19	496-91	496-50	495-95	497-45	500-56	507-80	508-75	507-95	506-25	503-62	498-75	496-85
20	496-90	496-47	495-93	497-56	500-60	508-00	508-70	507-85	506-23	503-50	498-70	496-80
21	496-89	496-45	495-92	497-70	500-65	508-15	508-68	507-78	506-15	503-40	498-55	496-75
22	496-89	496-44	495-90	497-83	500-66	508-25	508-74	507-69	506-10	503-33	498-50	496-70
23	496-88	496-43	495-90	497-96	500-70	508-35	508-75	507-61	506-03	503-25	498-40	496-65
24	496-86	496-42	496-00	498-10	500-86	508-38	508-72	507-50	505-98	503-05	498-35	496-65
25	496-85	496-37	496-05	498-30	500-98	508-38	508-68	507-40	505-85	502-90	498-20	496-60
26	496-84	496-36	496-10	498-43	501-02	508-50	508-65	507-30	505-80	502-78	498-10	496-55
27	496-84	496-35	496-15	498-58	501-06	508-70	508-58	507-25	505-70	502-60	498-00	496-55
28	496-82	496-33	496-23	498-73	501-15	508-72	508-67	507-20	505-60	502-45	497-90	496-50
29	496-81	496-31	496-35	498-90	501-25	508-75	508-55	507-18	505-50	502-32	497-80	496-50
30	496-80	496-41	496-41	499-05	501-55	508-72	508-48	507-20	505-40	502-12	497-75	496-50
31	496-79	.....	496-43	.....	501-78	.....	508-45	507-20	.....	501-93	.....	496-50
1921												
1	496-50	496-15	495-75	495-55	498-75	502-20	506-37	507-25	506-55	506-08	505-77	501-00
2	496-50	496-15	495-75	495-55	498-80	502-55	506-41	507-24	506-50	506-05	505-77	500-82
3	496-50	496-10	495-70	495-55	498-95	502-75	506-45	507-24	506-47	506-02	505-65	500-70
4	496-50	496-10	495-70	495-60	499-00	503-00	506-53	507-23	506-47	506-00	505-40	500-62
5	496-50	496-10	495-70	495-80	499-10	503-20	506-54	507-24	506-44	505-95	505-26	500-50
6	496-50	496-05	495-70	496-00	499-15	503-38	506-58	507-23	506-40	505-90	505-00	500-40
7	496-45	496-05	495-70	496-30	499-25	503-45	506-60	507-20	506-37	505-88	504-78	500-30
8	496-45	496-00	495-65	496-50	499-40	503-72	506-65	507-17	506-30	505-84	504-62	500-20
9	496-45	496-00	495-65	496-75	499-50	503-93	506-69	507-14	506-20	505-78	504-40	500-06
10	496-45	495-95	495-65	496-95	499-60	504-12	506-73	507-14	506-11	505-76	504-15	499-98
11	496-45	495-95	495-65	497-05	499-75	504-30	506-74	507-13	506-10	505-70	503-95	499-85
12	496-45	495-95	495-60	497-20	499-90	504-45	506-78	507-12	506-03	505-65	503-75	499-72
13	496-45	495-95	495-60	497-30	500-00	504-55	506-98	507-10	506-01	505-60	503-50	499-60
14	496-40	495-90	495-60	497-40	500-15	504-65	507-00	507-05	506-01	505-60	503-40	499-50
15	496-40	495-90	475-55	497-50	500-25	504-85	507-02	506-95	506-08	505-60	503-20	499-40
16	496-40	495-90	475-55	497-65	500-40	505-00	507-04	506-95	506-11	505-59	503-00	499-31
17	496-40	495-90	495-55	497-70	500-50	505-12	507-08	506-95	506-15	505-64	502-85	499-22
18	496-35	495-85	495-55	497-80	500-60	505-20	507-10	508-90	506-15	505-67	502-75	499-08
19	496-35	495-85	495-55	497-85	500-70	505-32	507-10	508-85	506-12	505-70	502-65	499-00
20	496-30	495-85	495-55	497-90	500-80	505-42	507-10	508-75	506-18	505-70	502-55	498-95
21	496-30	495-85	495-60	497-90	500-90	505-53	507-11	508-70	506-20	505-72	502-20	498-80
22	496-30	495-80	495-60	498-00	501-00	505-63	507-11	508-65	506-20	505-70	502-08	498-71
23	496-30	495-80	495-60	498-10	501-05	505-73	507-11	508-64	506-19	505-74	502-00	498-60
24	496-25	495-80	495-60	498-15	501-10	505-80	507-10	508-62	506-19	505-72	501-82	498-50
25	496-25	495-80	495-60	498-25	501-15	505-90	507-08	508-60	506-19	505-73	501-70	498-45
26	496-25	495-80	495-60	498-35	501-30	506-00	507-08	508-60	506-19	505-73	501-55	498-40
27	496-20	495-75	495-55	498-40	501-40	506-12	507-20	508-60	506-20	505-73	501-42	498-31
28	496-20	495-75	495-55	498-55	501-50	506-20	507-23	508-62	506-12	505-75	501-32	498-35
29	496-20	.....	495-55	498-60	501-60	506-27	507-23	508-62	506-10	505-76	501-20	498-30
30	496-20	.....	495-55	498-65	501-85	506-33	507-25	508-60	506-10	505-76	501-10	498-20
31	496-15	.....	495-55	.....	502-05	.....	507-25	508-58	.....	505-76	.....	498-10

RAINY LAKE INVESTIGATION

WATER LEVELS—NAMAKAN LAKE—KETTLE FALLS—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D.P.W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	498-05	496-97	496-38	495-95	500-10	505-30	508-30	507-90	506-63	503-62	498-70	497-50
2	498-00	496-97	496-37	495-95	500-20	505-50	508-30	507-82	506-60	503-40	498-65	497-46
3	497-94	496-94	496-35	495-95	500-30	505-62	508-32	507-80	506-55	503-20	498-60	497-40
4	497-87	496-90	496-33	495-98	500-40	505-74	508-35	507-80	506-50	503-00	498-55	497-37
5	497-80	496-87	496-32	496-05	500-48	505-86	508-35	507-76	506-48	502-80	498-50	497-31
6	497-75	496-87	496-31	496-12	500-53	506-02	508-35	507-75	506-46	502-60	498-48	497-25
7	497-68	496-84	496-29	496-18	500-62	506-15	508-34	507-74	506-45	502-40	498-45	497-20
8	497-66	496-80	496-25	496-25	500-70	506-36	508-34	507-70	506-40	502-20	498-38	497-16
9	497-63	496-78	496-23	496-34	500-85	506-50	508-30	507-68	506-30	502-00	498-32	497-11
10	497-60	496-75	496-21	496-58	501-00	506-62	508-30	507-65	506-22	501-80	498-27	497-07
11	497-52	496-71	496-19	496-78	501-18	506-75	508-29	507-60	506-18	501-55	498-18	497-02
12	497-48	496-70	496-18	496-95	501-32	506-85	508-24	507-58	506-12	501-35	498-13	497-00
13	497-43	496-69	496-17	497-10	501-50	506-90	508-20	507-54	506-05	501-20	498-08	496-95
14	497-40	496-70	496-15	497-21	501-72	507-00	508-18	507-50	506-00	501-05	498-04	496-90
15	497-40	496-70	496-13	497-33	501-93	507-15	508-16	507-47	505-95	500-85	498-00	496-86
16	497-38	496-69	496-10	497-65	502-15	507-30	508-14	507-46	505-00	500-75	497-95	496-83
17	497-34	496-65	496-10	497-80	502-35	507-40	508-12	507-40	505-86	500-60	497-92	496-80
18	497-29	496-60	496-09	498-00	502-60	507-52	508-08	507-30	505-78	500-45	497-90	496-77
19	497-27	496-58	496-08	498-13	502-80	507-60	508-04	507-27	505-70	500-25	497-87	496-75
20	497-24	496-56	496-07	498-32	503-00	507-68	507-99	507-23	505-60	500-13	497-84	496-72
21	497-22	496-53	496-06	498-62	503-28	507-75	507-95	507-18	505-55	500-00	497-80	496-70
22	497-20	496-50	496-04	498-85	503-55	507-82	508-00	507-15	505-48	499-85	497-77	496-68
23	497-16	496-48	496-02	499-05	503-63	507-85	507-99	507-10	505-35	499-70	497-75	496-65
24	497-12	496-46	496-00	499-20	504-90	507-90	507-99	507-07	505-10	499-60	497-72	496-63
25	497-10	496-44	496-00	499-37	504-13	507-95	507-98	507-00	505-00	499-50	497-69	496-61
26	497-07	496-42	495-99	499-50	504-30	507-98	507-98	507-00	504-85	499-38	497-66	496-60
27	497-04	496-40	495-99	499-65	504-45	508-03	507-95	506-90	504-60	499-25	497-63	496-58
28	497-02	496-39	495-99	499-78	504-70	508-10	507-86	506-85	504-35	499-12	497-60	496-56
29	497-00	496-37	495-98	499-85	504-93	508-20	507-85	506-80	504-10	499-00	497-57	496-54
30	496-98	496-35	495-97	500-00	505-00	508-28	507-90	506-75	503-90	498-90	497-55	496-52
31	496-96	496-33	495-96	500-00	505-20	508-28	507-90	506-68	503-75	498-80	497-52	496-50
1923												
1	496-48	495-77	494-98	494-63	497-67	500-54	501-20	501-27	500-15	498-88	497-87	497-15
2	496-46	495-75	494-97	494-63	497-95	500-55	501-16	501-25	500-10	498-84	497-86	497-12
3	496-44	495-72	494-96	494-62	498-23	500-56	501-13	501-23	500-05	498-80	497-85	497-10
4	496-42	495-69	494-95	494-61	498-45	500-53	501-10	501-20	500-00	498-77	497-80	497-07
5	496-40	495-66	494-93	494-61	498-65	500-53	501-09	501-18	499-97	498-75	497-78	497-04
6	496-38	495-62	494-92	494-60	498-90	500-50	501-06	501-18	499-92	498-70	497-75	497-02
7	496-36	495-60	494-91	494-60	499-02	500-50	501-08	501-13	499-88	498-65	497-73	497-00
8	496-34	495-57	494-89	494-60	499-20	500-50	501-10	501-13	499-80	498-60	497-70	496-97
9	496-32	495-55	494-87	494-59	499-40	500-52	501-18	501-13	499-75	498-55	497-65	496-95
10	496-30	495-53	494-86	494-59	499-50	500-54	501-19	501-12	499-70	498-50	497-60	496-93
11	496-28	495-50	494-85	494-58	499-70	500-60	501-20	501-12	499-65	498-47	497-56	496-90
12	496-27	495-47	494-84	494-58	499-76	500-62	501-22	501-06	499-59	498-44	497-50	496-87
13	496-25	495-44	494-83	494-57	499-85	500-63	501-25	501-00	499-53	498-41	497-48	496-84
14	496-23	495-41	494-82	494-57	499-90	500-64	501-30	500-98	499-47	498-38	497-50	496-81
15	496-22	495-39	494-81	494-60	499-97	500-64	501-31	500-97	499-40	498-34	497-50	496-80
16	496-20	495-37	494-80	494-65	500-06	500-68	501-30	500-96	499-37	498-32	497-48	496-77
17	496-17	495-34	494-78	494-75	500-12	500-68	501-32	500-92	499-35	498-30	497-45	496-75
18	496-14	495-31	494-77	494-90	500-17	500-68	501-33	500-88	499-35	498-27	497-43	496-72
19	496-12	495-27	494-76	495-10	500-20	500-68	501-30	500-80	499-28	498-22	497-40	496-70
20	496-09	495-24	494-75	495-33	500-25	500-75	501-28	500-78	499-27	498-19	497-37	496-67
21	496-07	495-21	494-74	495-45	500-30	500-78	501-25	500-70	499-26	498-15	497-35	496-65
22	496-04	495-18	494-73	495-70	500-33	500-95	501-23	500-63	499-23	498-10	497-33	496-63
23	496-01	495-15	494-72	495-93	500-40	501-02	501-25	500-57	499-20	498-08	497-32	496-60
24	495-97	495-12	494-71	496-12	500-43	501-10	501-25	500-50	499-15	498-05	497-30	496-57
25	495-95	495-09	494-70	496-32	500-47	501-12	501-23	500-45	499-10	498-02	497-28	496-55
26	495-93	495-06	494-68	496-50	500-50	501-14	501-23	500-40	499-07	498-00	497-27	496-52
27	495-90	495-03	494-67	496-70	500-53	501-16	501-25	500-33	499-05	497-99	497-25	496-49
28	495-88	495-00	494-66	496-90	500-55	501-18	501-27	500-28	499-00	497-96	497-23	496-47
29	495-86	494-95	494-65	497-10	500-55	501-18	501-30	500-20	498-95	497-92	497-21	496-44
30	495-83	494-92	494-65	497-40	500-55	501-17	501-30	500-15	498-92	497-89	497-18	496-42
31	495-80	494-89	494-64	497-40	500-55	501-17	501-28	500-20	498-89	497-85	497-15	496-40

## WATER LEVELS—NAMAKAN LAKE—KETTLE FALLS—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
 [Elevations refer to D.P.W. Datum—For Sea-level Datum add 611·61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	496·38	495·80	495·29	494·90	495·70	496·62	498·25	498·37	498·64	499·34	501·12	499·45
2	496·36	495·79	495·27	494·89	495·73	496·68	498·28	498·32	498·63	499·37	501·05	499·40
3	496·35	495·77	495·26	494·89	495·77	496·76	498·30	498·40	498·62	499·43	501·00	499·34
4	496·33	495·75	495·24	494·88	495·77	496·84	498·33	498·44	498·66	499·46	500·94	499·28
5	496·31	495·73	495·23	494·87	495·77	496·90	498·33	498·44	498·66	499·50	500·88	499·24
6	496·29	495·72	495·22	494·87	495·78	497·00	498·35	498·43	498·65	499·57	500·82	499·22
7	496·27	495·70	495·20	494·86	495·80	497·10	498·37	498·42	498·65	499·60	500·76	499·18
8	496·26	495·69	495·19	494·85	495·82	497·10	498·37	498·42	498·62	499·65	500·70	499·13
9	496·24	495·67	495·18	494·85	495·83	497·15	498·40	498·42	498·63	499·68	500·65	499·11
10	496·22	495·65	495·17	494·85	495·85	497·20	498·42	498·44	498·67	499·73	500·63	499·08
11	496·20	495·64	495·15	494·84	495·87	497·30	498·43	498·47	498·68	499·75	500·59	499·04
12	496·18	495·62	495·14	494·83	495·90	497·34	498·44	498·43	498·75	499·87	500·55	499·00
13	496·16	495·60	495·13	494·83	495·94	497·36	498·44	498·48	498·78	500·00	500·50	498·96
14	496·15	495·58	495·12	494·81	496·00	497·40	498·41	498·48	498·80	500·20	500·45	498·93
15	496·13	495·57	495·10	494·81	496·05	497·45	498·40	498·50	498·83	500·36	500·40	498·93
16	496·12	495·55	495·09	494·81	496·10	497·52	498·38	498·52	498·85	500·50	500·35	498·84
17	496·10	495·53	495·08	494·85	496·15	497·58	498·34	498·53	498·85	500·68	500·30	498·88
18	496·08	495·51	495·06	494·89	496·20	497·60	498·32	498·50	498·85	500·77	500·23	498·80
19	496·07	495·50	495·05	494·92	496·25	497·68	498·30	498·50	498·87	500·90	500·15	498·76
20	496·05	495·48	495·04	494·94	496·30	497·76	498·30	498·50	498·91	501·00	500·10	498·72
21	496·03	495·46	495·02	495·00	496·35	497·83	498·30	498·54	498·93	501·12	500·05	498·67
22	496·00	495·44	495·01	495·03	496·40	497·90	498·33	498·60	498·95	501·32	500·00	498·63
23	495·98	495·42	495·00	495·08	496·42	498·00	498·34	498·62	499·00	501·35	499·94	498·60
24	495·97	495·40	494·98	495·15	496·50	498·02	498·31	498·60	499·05	501·40	499·88	498·56
25	495·95	495·38	494·97	495·25	496·52	498·06	498·30	498·58	499·10	501·39	499·82	498·53
26	495·94	495·36	494·96	495·30	496·52	498·08	498·29	498·56	499·13	501·40	499·77	498·50
27	495·92	495·35	494·95	495·38	496·55	498·10	498·29	498·55	499·18	501·38	499·70	498·46
28	495·90	495·33	494·94	495·50	496·55	498·15	498·30	498·53	499·24	501·30	499·64	498·41
29	495·88	495·31	494·92	495·59	496·58	498·20	498·34	498·52	499·28	501·28	499·57	498·37
30	495·84	495·29	494·91	495·68	496·60	498·20	498·34	498·60	499·30	501·22	499·51	498·35
31	495·82	495·27	494·90	495·75	496·62	498·25	498·36	498·65	499·35	501·17	499·46	498·35
1925												
1	498·31	497·53	496·99	497·05	499·33	503·70	507·60	507·96	507·11	506·20	504·77	501·49
2	498·28	497·50	496·98	497·12	499·40	503·87	507·63	507·94	507·10	506·15	504·62	501·38
3	498·25	497·48	496·98	497·17	499·75	504·00	507·65	507·93	507·10	506·12	504·53	501·30
4	498·22	497·46	496·97	497·24	499·95	504·05	507·68	507·91	507·09	506·10	504·49	501·22
5	498·19	497·45	496·97	497·31	500·10	504·25	507·70	507·88	507·09	506·08	504·38	501·11
6	498·15	497·43	496·95	497·38	500·30	504·47	507·80	507·88	507·08	506·05	504·29	501·00
7	498·12	497·41	496·95	497·44	500·40	504·72	507·80	507·85	507·07	506·02	504·20	500·90
8	498·09	497·40	496·95	497·53	500·55	505·00	507·85	507·82	507·05	506·00	504·13	500·80
9	498·06	497·37	496·94	497·60	500·73	505·30	507·85	507·79	507·00	505·98	504·11	500·70
10	498·03	497·36	496·94	497·66	500·95	505·50	507·86	507·75	506·95	505·95	504·06	500·60
11	498·00	497·34	496·93	497·69	501·10	505·70	507·87	507·70	506·90	505·90	504·00	500·40
12	497·98	497·32	496·93	497·75	501·15	505·88	507·88	507·65	506·88	505·80	503·90	500·20
13	497·95	497·31	496·91	497·80	501·30	506·05	507·89	507·60	506·80	505·77	503·79	500·12
14	497·93	497·29	496·91	497·85	501·45	506·18	507·89	507·58	506·72	505·75	503·68	500·00
15	497·92	497·27	496·90	497·90	501·55	506·30	507·90	507·58	506·63	505·70	503·57	499·87
16	497·90	497·25	496·90	497·95	501·72	506·40	507·90	507·60	506·62	505·68	503·46	499·74
17	497·88	497·24	496·88	498·00	501·82	506·53	507·90	507·60	506·61	505·66	503·33	499·62
18	497·88	497·22	496·88	498·10	501·92	506·66	507·90	507·58	506·60	505·64	503·15	499·50
19	497·84	497·20	496·86	498·20	502·05	506·80	507·92	507·54	506·58	505·62	503·00	499·38
20	497·82	497·18	496·85	498·30	502·18	506·95	507·90	507·50	506·57	505·60	502·88	499·20
21	497·80	497·16	496·85	498·40	502·35	507·00	507·88	507·48	506·55	505·58	502·79	499·10
22	497·77	497·14	496·85	498·50	502·50	507·10	507·92	507·40	506·55	505·56	502·60	499·00
23	497·75	497·11	496·87	498·60	502·60	507·15	507·91	507·37	506·50	505·54	502·48	498·90
24	497·73	497·09	496·88	498·75	502·73	507·20	507·94	507·34	506·45	505·52	502·34	498·83
25	497·71	497·07	496·90	498·85	502·86	507·27	507·95	507·32	506·42	505·50	502·21	498·77
26	497·67	497·05	496·92	499·00	503·00	507·32	507·96	507·20	506·37	505·40	502·10	498·71
27	497·64	497·03	496·94	499·05	503·12	507·38	507·96	507·19	506·30	505·30	502·00	498·65
28	497·62	497·00	496·95	499·10	503·26	507·40	507·95	507·15	506·25	505·20	501·85	498·59
29	497·59	496·98	496·95	499·15	503·38	507·48	507·96	507·12	506·23	505·10	501·73	498·53
30	497·57	496·97	496·97	499·20	503·50	507·51	507·95	507·12	506·20	505·00	501·60	498·47
31	497·55	496·95	497·00	499·25	503·60	507·55	507·95	507·11	506·18	504·90	501·48	498·41

RAINY LAKE INVESTIGATION

WATER LEVELS—NAMAKAN LAKE—KETTLE FALLS—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D.P.W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1	498-35	497-22	496-64	496-42	497-55	499-34	503-32	507-90	508-10	508-05	508-42	508-16
2	498-30	497-20	496-63	496-42	497-60	499-42	503-40	507-95	508-16	508-08	508-41	508-05
3	498-25	497-18	496-61	496-41	497-64	499-52	503-58	508-00	508-12	508-12	508-40	508-05
4	498-20	497-17	496-60	496-40	497-67	499-63	503-70	508-10	508-18	508-20	508-40	508-05
5	498-16	497-15	496-58	496-40	497-70	499-74	504-00	508-13	508-20	508-30	508-40	508-04
6	498-10	497-14	496-57	496-40	497-73	499-85	504-20	508-15	508-20	508-38	508-39	508-03
7	498-05	497-12	496-55	496-38	497-75	499-95	504-37	508-20	508-19	508-38	508-39	508-92
8	498-00	497-10	496-54	496-37	497-77	500-03	504-52	508-25	508-18	508-48	508-38	508-01
9	497-97	497-08	496-52	496-36	497-79	500-08	504-75	508-30	508-16	508-50	508-33	508-00
10	497-94	497-06	496-51	496-34	497-81	500-11	505-00	508-35	508-15	508-50	508-32	507-99
11	497-90	497-04	496-50	496-34	497-83	500-15	505-25	508-40	508-12	508-50	508-31	507-99
12	497-85	497-02	496-49	496-35	497-85	500-18	505-40	508-40	508-10	508-50	508-31	507-98
13	497-82	497-00	496-48	496-35	497-87	500-22	505-62	508-40	508-07	508-49	508-30	507-97
14	497-77	496-98	496-47	496-38	497-89	500-28	505-80	508-41	508-05	508-47	508-30	507-95
15	497-72	496-95	496-46	496-43	497-90	500-34	506-00	508-40	508-04	508-45	508-30	507-91
16	497-66	496-93	496-45	496-50	497-95	500-40	506-16	508-42	508-00	508-44	508-29	507-88
17	497-62	496-91	496-44	496-58	497-97	500-52	506-30	508-42	508-00	508-40	508-28	507-86
18	497-60	496-89	496-43	496-67	497-97	500-58	506-48	508-44	507-98	508-45	508-27	507-84
19	497-57	496-87	496-42	496-73	497-98	500-68	506-60	508-42	507-95	508-45	508-26	507-82
20	497-52	496-85	496-40	496-80	498-00	501-20	506-80	508-44	507-93	508-45	508-25	507-80
21	497-50	496-83	496-39	496-90	498-01	501-55	506-90	508-43	507-93	508-45	508-24	507-78
22	497-47	496-80	496-38	497-00	498-03	501-75	507-00	508-44	507-97	508-44	508-23	507-75
23	497-45	496-77	496-38	497-05	498-05	501-88	507-12	508-41	507-97	508-43	508-22	507-73
24	497-42	496-75	496-40	497-10	498-18	502-06	507-22	508-38	508-00	508-42	508-20	507-70
25	497-38	496-72	506-43	497-20	498-38	502-35	507-32	508-34	508-02	508-45	508-19	507-67
26	497-38	496-69	496-45	497-25	498-50	502-50	507-40	508-28	508-00	508-45	508-17	507-64
27	497-32	496-67	496-45	497-30	498-67	502-70	507-50	508-25	508-02	508-45	508-15	507-60
28	497-30	496-65	496-45	497-38	498-83	502-90	507-60	508-22	508-02	508-45	508-12	507-55
29	497-28	.....	496-44	497-44	499-00	503-00	507-67	508-18	508-03	508-44	508-10	507-53
30	497-26	.....	496-42	497-50	499-15	503-10	507-72	508-14	508-05	508-43	508-08	507-47
31	497-23	.....	496-40	.....	499-24	.....	507-80	508-12	.....	508-43	.....	507-47
1927												
1	507-45	506-56	503-90	500-67	507-45	510-05	509-48	509-30	508-30	507-04	505-55	504-07
2	507-43	506-54	503-75	500-52	507-70	510-00	509-50	509-25	508-30	507-00	505-50	504-04
3	507-41	506-51	503-60	500-59	507-85	509-90	509-50	509-20	508-28	506-95	505-45	504-02
4	507-39	506-48	503-40	500-57	508-00	509-80	509-50	509-15	508-28	506-90	505-40	504-00
5	507-37	506-46	503-20	500-55	508-15	509-72	509-50	509-12	508-30	506-86	505-36	503-98
6	507-36	506-43	503-07	500-54	508-97	509-63	509-55	509-06	508-30	506-80	505-31	503-95
7	507-35	506-40	502-87	500-56	509-23	509-55	509-55	509-00	508-20	506-77	505-25	503-90
8	507-30	506-37	502-70	500-59	509-40	509-46	509-53	508-95	508-15	506-74	505-20	503-87
9	507-26	506-35	502-60	500-60	509-70	509-37	509-53	508-90	508-10	506-70	505-15	503-84
10	507-22	506-32	502-55	500-60	509-90	509-25	509-54	508-85	508-05	506-65	505-10	503-80
11	507-18	506-29	502-34	500-61	510-00	509-14	509-56	508-78	508-00	506-60	505-04	503-76
12	507-15	506-20	502-28	500-65	510-08	509-04	509-56	508-74	508-03	506-67	504-98	503-73
13	507-12	506-10	502-20	500-77	510-10	508-98	509-57	508-62	507-90	506-54	504-91	503-70
14	507-09	506-00	502-10	501-00	510-15	508-90	509-57	508-55	508-88	506-50	504-86	503-67
15	507-05	505-89	502-00	501-20	510-18	508-88	509-55	508-49	508-85	506-45	504-80	503-63
16	507-02	505-79	501-92	501-60	510-25	508-90	509-54	508-38	508-83	506-40	504-75	503-60
17	507-00	505-68	501-85	501-95	510-30	508-90	509-53	508-30	508-75	506-35	504-70	503-55
18	506-95	505-56	501-78	502-32	510-31	508-90	509-51	508-24	508-65	506-28	504-65	503-40
19	506-92	505-46	501-70	502-90	510-34	508-88	509-50	508-20	508-62	506-22	504-60	503-30
20	506-90	505-35	501-60	503-35	510-34	508-90	509-50	508-20	508-55	506-18	504-57	503-20
21	506-88	505-24	501-54	503-70	510-28	508-90	509-49	508-20	508-50	506-15	504-53	503-10
22	506-85	505-17	501-46	504-05	510-22	508-95	509-48	508-20	508-47	506-10	504-50	503-00
23	506-83	505-00	501-43	504-55	510-30	509-10	509-47	508-20	508-43	506-04	504-47	502-88
24	506-80	504-80	501-32	504-97	510-30	509-18	509-46	408-18	508-37	506-00	504-41	502-75
25	506-77	504-65	501-20	505-38	510-32	509-22	509-45	508-17	508-30	505-94	504-35	502-60
26	506-72	504-49	501-10	505-78	510-30	509-28	509-43	508-16	508-24	505-86	504-30	502-45
27	506-70	504-30	501-00	506-12	510-25	509-35	509-41	508-17	508-18	508-80	504-25	502-30
28	506-67	504-10	500-93	506-48	510-20	509-35	509-40	508-17	508-13	505-75	504-20	502-15
29	506-64	.....	500-90	506-80	510-16	509-34	509-39	508-16	508-10	505-70	504-15	502-00
30	506-61	.....	501-80	507-15	510-13	509-30	509-38	508-16	508-08	505-65	504-10	501-88
31	506-58	.....	501-72	.....	510-10	.....	509-37	508-15	.....	505-60	.....	501-70



## REPORT OF ENGINEERS

## NAMAKAN RESERVOIR

Rates of discharge for 8, 9, 10, 11, 28, 29, 30 and 31-day periods equivalent to volume represented by given depth on Namakan Reservoir.

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

[Area, 100 square miles]

Feet depth on lake	Rates of discharge in cu. ft. per sec.							
	8 days	9 days	10 days	11 days	28 days	29 days	30 days	31 days
0-01	40	36	32	29	12	11	11	10
0-02	80	72	64	58	24	22	22	20
0-03	120	108	96	87	35	33	32	31
0-04	161	144	129	117	46	44	43	41
0-05	202	180	162	147	58	55	54	52
0-06	242	216	194	176	70	66	65	62
0-07	282	252	226	205	82	77	76	72
0-08	322	288	258	234	93	88	87	83
0-09	362	324	290	264	104	99	97	94
0-10	403	359	323	294	115	111	108	104
0-11	443	395	355	323	127	122	119	114
0-12	483	431	387	352	138	133	129	125
0-13	523	467	419	381	150	144	140	135
0-14	564	503	452	411	161	156	150	146
0-15	605	539	485	441	173	167	161	157
0-16	645	575	517	470	184	178	172	167
0-17	685	611	549	499	196	190	182	178
0-18	725	647	581	528	207	201	193	188
0-19	765	683	613	558	219	212	204	198
0-20	806	718	646	588	230	223	215	208
0-21	846	754	678	617	242	234	226	219
0-22	886	790	710	646	253	246	237	229
0-23	926	826	742	675	265	257	248	240
0-24	967	862	775	705	276	268	259	250
0-25	1008	898	808	735	288	279	269	260
0-26	1048	934	840	764	299	289	280	271
0-27	1088	970	872	793	311	300	291	281
0-28	1128	1006	904	822	322	311	302	292
0-29	116	1042	936	852	334	323	313	302
0-30	1209	1077	969	882	346	334	323	312
0-31	1249	1113	1001	911	357	345	334	323
0-32	1289	1149	1033	940	369	357	345	333
0-33	1329	1185	1065	969	380	368	356	344
0-34	1369	1221	1098	999	392	379	367	354
0-35	14.0	1257	1131	1029	403	390	377	365
0-36	1450	1293	1163	1058	415	401	388	375
0-37	1490	1329	1195	1087	426	412	399	386
0-38	1530	1365	1227	1116	438	423	409	396
0-39	1571	1401	1259	1146	449	434	420	406
0-40	1612	1436	1292	1176	461	445	431	416
0-41	1652	1472	1324	1205	473	456	442	426
0-42	1692	1508	1356	1234	484	467	453	437
0-43	1732	1544	1388	1263	496	479	463	447
0-44	1773	1580	1421	1293	507	490	474	458
0-45	1814	1616	1454	1323	519	501	485	468
0-46	1854	1652	1486	1352	530	512	496	479
0-47	1894	1688	1518	1381	542	523	506	489
0-48	1934	1724	1550	1410	553	534	517	500
0-49	1974	1760	1582	1440	565	545	528	510
0-50	2015	1795	1615	1470	576	556	538	520
0-51	2055	1831	1647	1499	588	567	549	530
0-52	2095	1867	1679	1528	599	578	560	541
0-53	2135	1903	1711	1557	611	589	571	551
0-54	2176	1939	1744	1587	623	600	582	562
0-55	2217	1975	1777	1617	635	611	593	572

RAINY LAKE INVESTIGATION

NAMAKAN RESERVOIR—Concluded

Rates of discharge for 8, 9, 10, 11, 28, 29, 30 and 31-day periods equivalent to volume represented by given depth on Namakan Reservoir.

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

[Area, 100 square miles]

Feet depth on lake	Rates of discharge in cu. ft. per sec.							
	8 days	9 days	10 days	11 days	28 days	29 days	30 days	31 days
0-56.....	2257	2011	1809	1646	646	622	604	583
0-57.....	2297	2047	1841	1675	658	633	615	593
0-58.....	2337	2083	1873	1704	669	645	626	604
0-59.....	2377	2119	1905	1734	680	656	637	614
0-60.....	2418	2154	1938	1764	691	668	649	625
0-61.....	2458	2190	1970	1793	703	679	660	635
0-62.....	2498	2226	2002	1822	714	690	670	646
0-63.....	2538	2262	2034	1851	725	701	681	656
0-64.....	2578	2298	2067	1881	737	713	691	667
0-65.....	2620	2334	2100	1911	748	724	702	677
0-66.....	2660	2370	2132	1940	760	735	712	687
0-67.....	2709	2406	2164	1969	772	746	722	698
0-68.....	2740	2442	2196	1998	783	757	733	708
0-69.....	2780	2478	2228	2028	795	768	743	718
0-70.....	2821	2513	2261	2058	806	779	753	729
0-71.....	2861	2549	2293	2087	818	790	764	739
0-72.....	2901	2585	2325	2116	829	802	775	750
0-73.....	2941	2621	2357	2145	841	813	785	760
0-74.....	2982	2657	2390	2175	853	824	796	771
0-75.....	3023	2693	2423	2205	864	835	806	781
0-76.....	3063	2729	2455	2234	876	846	817	792
0-77.....	3103	2765	2487	2263	888	857	828	802
0-78.....	3143	2801	2519	2292	900	868	839	813
0-79.....	3183	2837	2551	2322	911	879	850	823
0-80.....	3224	2872	2584	2352	922	890	861	833
0-81.....	3264	2908	2616	2381	934	901	872	843
0-82.....	3304	2944	2648	2410	945	912	882	854
0-83.....	3344	2980	2680	2439	957	923	893	864
0-84.....	3385	3016	2713	2469	968	935	903	875
0-85.....	3426	3052	2746	2499	980	946	914	885
0-86.....	3466	3088	2778	2528	991	957	924	896
0-87.....	3506	3124	2810	2557	1003	968	935	906
0-88.....	3546	3160	2842	2586	1014	979	946	917
0-89.....	3586	3196	2874	2616	1025	991	957	927
0-90.....	3627	3231	2907	2646	1037	1002	968	937
0-91.....	3667	3267	2939	2675	1049	1013	979	947
0-92.....	3707	3303	2971	2704	1060	1024	989	958
0-93.....	3747	3339	3003	2733	1072	1035	1000	968
0-94.....	3788	3375	3036	2763	1083	1047	1011	979
0-95.....	3829	3411	3069	2793	1095	1058	1021	989
0-96.....	3869	3447	3101	2822	1106	1069	1032	1000
0-97.....	3909	3483	3133	2851	1117	1080	1043	1010
0-98.....	3949	3519	3165	2880	1129	1091	1054	1021
0-99.....	3989	3555	3197	2910	1140	1102	1065	1031
1-00.....	4030	3590	3230	2940	1152	1113	1076	1041

NAMAKAN LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS,  
INFLOW AND OUTFLOW

10-DAY MEANS

Date	Computed natural levels			Com-puted natural inflow, average c.f.s.	Com-puted natural outflow, average c.f.s.	Computed natural levels			Com-puted natural inflow, average c.f.s.	Com-puted natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1914										
Jan. 1-10						498-94		0-18	2020	2590
11-20						498-91		0-03	2380	2460
21-31						498-70		0-21	1700	2330
Feb. 1-10						498-50		0-20	1470	2110
11-20						498-49		0-01	1950	1990
21-28	498-50					498-41		0-08	1650	1960
Mar. 1-10	498-22		0-28	950	1870	498-29		0-12	1470	1870
11-21	498-09		0-13	1280	1690	498-13		0-16	1230	1740
21-31	498-10	0-01		1650	1630	497-97		0-16	1130	1600
April 1-10	497-99		0-11	1250	1600	498-34	0-37		2870	1690
11-20	498-95	0-96		5060	1970	498-90	0-56		3940	2130
21-30	500-19	1-24		7260	3240	499-28	0-38		3900	2660
May 1-10	501-79	1-60		10460	5280	499-75	0-47		4690	3160
11-20	502-64	0-85		10290	7540	500-36	0-61		5850	3870
21-31	503-49	0-85		11950	9450	500-51	0-15		4870	4420
June 1-10	503-77	0-28		11780	10880	501-18	0-67		7220	5060
11-20	503-60		0-17	10460	11000	503-31	2-13		14480	7600
21-30	503-19		0-41	8950	10280	504-18	0-87		13950	11150
July 1-10	502-83		0-36	8170	9320	504-18			12290	12290
11-20	502-48		0-35	7390	8520	503-71		0-47	10140	11650
21-31	501-85		0-63	5590	7440	503-10		0-61	8540	10330
Aug. 1-10	501-39		0-46	4910	6380	502-23		0-87	5720	8520
11-20	500-88		0-51	3860	5520	501-46		0-77	4330	6800
21-31	500-50		0-38	3670	4800	500-69		0-77	3170	5420
Sept. 1-10	500-39		0-11	4070	4420	500-08		0-61	2350	4330
11-20	500-62	0-23		5250	4500	499-75		0-33	2620	3680
21-30	500-56		0-06	4430	4640	499-66		0-09	3120	3410
Oct. 1-10	500-44		0-12	4100	4500	499-68	0-02		3420	3370
11-20	500-19		0-25	3430	4230	499-79	0-11		3800	3450
21-31	500-17		0-02	4000	4050	499-69		0-10	3160	3460
Nov. 1-10	499-80		0-37	2570	3770	500-18	0-49		5300	3710
11-20	499-58		0-22	2700	3400	500-50	0-32		5300	4280
21-30	499-41		0-17	2580	3140	500-51	0-01		4550	4520
Dec. 1-10	499-52	0-11		3460	3100	500-62	0-11		4940	4600
11-20	499-29		0-23	2310	3040	500-62			4690	4690
21-31	499-12		0-17	2310	2800	500-57		0-05	4490	4640
1916										
Jan. 1-10	500-44		0-13	4100	4520	500-01		0-21	3290	3970
11-20	500-39		0-05	4220	4370	499-65		0-36	2410	3580
21-31	500-26		0-13	3890	4250	499-32		0-33	2160	3130
Feb. 1-10	500-13		0-13	3650	4070	499-18		0-14	2390	2850
11-20	499-95		0-18	3290	3860	499-14		0-04	2610	2740
21-29	499-82		0-13	3180	3660	499-04		0-10	2270	2660
Mar. 1-10	499-57		0-25	2580	3400	498-98		0-06	2370	2560
11-20	499-57			3230	3240	498-87		0-11	2110	2460
21-31	499-58	0-01		3260	3240	498-72		0-15	1880	2320
April 1-10	499-44		0-14	2740	3160	498-73		0-24	1350	2110
11-20	502-99	3-55		1740	5670	498-48			4390	2400
21-30	506-48	3-49		25070	13800	500-34	0-77		7070	3540
May 1-10	507-16	0-68		21590	19410	501-00	0-66		6900	4770
11-20	507-79	0-63		23200	21170	501-10	0-10		5720	5390
21-31	507-94	0-15		22680	22220	500-80		0-30	4350	5220
June 1-10	507-54		0-40	20600	21900	500-57		0-23	4070	4800
11-20	506-48		1-06	16490	19930	500-39		0-18	3880	4470
21-30	505-71		0-77	14960	17440	500-54	0-15		4930	4440
July 1-10	504-85		0-86	12480	15260	500-49		0-05	4380	4530
11-20	503-76		1-09	9110	12640	500-59	0-10		4880	4560
21-31	502-77		0-99	7060	9980	500-30		0-29	3570	4420
Aug. 1-10	502-07		0-70	5730	7980	499-88		0-42	2580	3930
11-20	501-56		0-51	5080	6740	499-59		0-29	2500	3440
21-31	501-17		0-39	4790	5930	499-45		0-14	2770	3180
Sept. 1-10	501-37	0-20		6400	5760	499-24		0-21	2270	2960
11-20	501-41	0-04		6080	5960	499-21		0-03	2730	2810
21-30	501-52	0-11		6430	6080	499-05		0-16	2190	2710
Oct. 1-10	501-26		0-26	5120	5960	498-84		0-21	1810	2480
11-20	501-47	0-21		6620	5930	499-08	0-24		3290	2510
21-31	501-41		0-06	5870	6050	499-30	0-22		3440	2780
Nov. 1-10	501-44	0-03		6140	6030	499-40	0-10		3280	2970
11-20	501-16		0-28	4920	5810	499-32		0-08	2710	2980
21-30	500-95		0-21	4720	5390	499-31		0-01	2900	2930
Dec. 1-10	500-69		0-26	4180	5010	499-19		0-12	2460	2850
11-20	500-51		0-18	4090	4660	499-08		0-11	2360	2710
21-31	500-22		0-29	3460	4300	499-02		0-06	2420	2610

Lake levels refer to elevations on the 1st, 11th and 21st of each month.

In flow represents 56 per cent of net available run-off from entire Rainy Lake watershed, evaporation from lakes having been cared for by method of computation.

RAINY LAKE INVESTIGATION

NAMAKAN LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOW AND OUTFLOW—Continued  
10-DAY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1918										
Jan. 1-10	498-85		0-17	1940	2480	499-27		0-15	2480	2960
11-20	498-65		0-20	1640	2280	499-12		0-15	2310	2790
21-31	498-56		0-09	1850	2110	498-93		0-19	2000	2570
Feb. 1-10	498-30		0-26	1110	1940	498-64		0-29	1380	2310
11-20	498-20		0-10	1470	1780	498-49		0-15	1610	2080
21-28	498-13		0-07	1410	1690	498-57	0-08		2270	2030
Mar. 1-10	498-00		0-13	1170	1600	498-29		0-28	1020	1940
11-20	497-68		0-32	450	1450	498-21		0-08	1520	1780
21-31	498-10	0-42		2700	1480	498-49			2700	1870
Apr. 1-10	498-55	0-45		3310	1850	499-40	0-91		5420	2480
11-20	498-75	0-20		2820	2170	500-57	1-17		7570	3790
21-30	499-51	0-76		5170	2710	501-54	0-97		8520	5390
May 1-10	500-54	1-03		7150	3830	502-39	0-85		9770	7020
11-20	501-19	0-65		7190	5080	502-74	0-35		9430	8290
21-31	501-76	0-57		7800	6120	502-41		0-33	7340	8310
June 1-10	502-27	0-51		8800	7140	502-37		0-04	7780	7920
11-20	502-21		0-06	7410	7600	502-32		0-05	7670	7840
21-30	502-16		0-05	7330	7480	501-85		0-47	5750	7270
July 1-10	501-72		0-44	5560	6990	503-49	1-64		13840	8540
11-20	501-33		0-39	4940	6190	502-99		0-50	8270	9900
21-31	501-14		0-19	5160	5710	502-07		0-92	5520	8220
Aug. 1-10	500-69		0-45	3720	5160	501-50		0-57	4830	6680
11-20	500-40		0-29	3610	4560	501-56	0-06		6400	6210
21-31	499-81		0-59	2200	3940	500-82		0-74	3440	5620
Sept. 1-10	499-23		0-58	1310	3180	500-12		0-70	2100	4460
11-20	498-75		0-48	1000	2540	499-91		0-21	3140	3810
21-30	498-45		0-30	1130	2110	499-54		0-37	2240	3440
Oct. 1-10	498-25		0-20	1230	1870	499-43		0-11	2780	3130
11-20	498-20		0-05	1610	1760	499-00		0-43	1420	2800
21-31	498-22	0-02		1790	1740	499-07	0-07		2810	2600
Nov. 1-10	498-68	0-46		3460	1960	499-12	0-05		2830	2660
11-20	499-17	0-49		4060	2470	499-36	0-24		3610	2840
21-30	499-36	0-19		3470	2860	499-45	0-09		3320	3030
Dec. 1-10	499-56	0-20		3750	3100	499-34		0-11	2670	3020
11-20	499-56			3230	3230	499-29		0-05	2770	2920
21-31	499-42		0-14	2740	3140	499-11		0-18	2270	2790
1920										
Jan. 1-10	498-94		0-17	2020	2570	497-62	0-02		1360	1320
11-20	498-91		0-03	2370	2460	497-53		0-09	990	1290
21-30	498-86		0-05	2280	2430	497-51		0-02	1210	1260
Feb. 1-10	498-65		0-21	1600	2280	497-49		0-02	1170	1250
11-20	498-56		0-09	1840	2120	497-53	0-04		1390	1260
21-29	498-46		0-10	1640	2010	497-47		0-06	1010	1250
Mar. 1-10	498-24		0-22	1140	1860	497-41		0-06	050	1230
11-20	498-17		0-07	1500	1730	497-55	0-14		1690	1240
21-30	499-10	0-03		4890	2150	497-55			1290	1280
Apr. 1-10	499-52	0-42		4290	2920	499-72	2-17		9170	2150
11-20	500-30	0-78		6200	3680	500-75	1-03		7450	4120
21-30	501-91	1-61		10660	5470	501-23	0-48		6820	5280
May 1-10	502-30	0-39		8580	7310	501-73	0-50		7740	6120
11-20	502-43	0-13		8280	7860	502-23	0-50		8680	7020
21-31	503-54	1-11		12502	9250	502-50	0-27		8670	7880
June 1-10	504-39	0-85		14400	11700	502-79	0-29		9430	8480
11-20	504-27		0-12	12330	12690	502-33		0-46	6790	8290
21-30	503-84		0-43	10550	11940	501-84		0-49	5710	7290
July 1-10	503-58		0-26	10230	11070	501-42		0-42	5030	6400
11-20	503-03		0-55	8280	10050	501-22		0-20	5180	5840
21-31	502-55		0-48	7410	8820	500-70		0-52	3720	5240
Aug. 1-10	501-86		0-69	5310	7540	500-23		0-47	2910	4440
11-20	501-37		0-49	4770	6360	499-77		0-46	2320	3800
21-31	500-71		0-66	3420	5370	499-70		0-07	3250	3450
Sept. 1-10	500-26		0-45	3020	4470	499-62		0-08	3100	3360
11-20	499-87		0-39	2620	3880	499-77	0-15		3880	3400
21-30	499-40		0-47	1790	3320	499-51		0-26	2500	3330
Oct. 1-10	498-91		0-49	1140	2730	499-12		0-39	1650	2920
11-20	498-81		0-10	2090	2400	499-10		0-02	2620	2680
21-31	498-38		0-43	840	2110	498-91		0-19	1980	2550
Nov. 1-10	497-93		0-45	230	1690	498-41		0-50	580	2180
11-20	497-80		0-13	1050	1470	498-26		0-15	1360	1850
21-30	497-70		0-10	1080	1400	498-29	0-03		1870	1800
Dec. 1-10	497-58		0-12	940	1330	498-19		0-10	1460	1770
11-20	497-45		0-13	850	1260	498-09		0-10	1350	1680
21-31	497-60		0-15	1720	1270	498-15	0-06		1830	1660

Lake levels refer to elevations on the 1st, 11th and 21st of each month.

Inflow represents 56 per cent of net available run-off from entire Rainy Lake Watershed, evaporation from lakes having been cared for by method of computation used.

NAMAKAN LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOW AND OUTFLOW—Continued

10-DAY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1922										
Jan. 1-10	498.03		0-12	1230	1630	497.86		0-10	119	1500
11-20	497.98		0-05	1380	1550	497.94	0-08		1760	1490
21-31	497.94		0-04	1410	1530	497.81		0-13	1080	1470
Feb. 1-10	497.90		0-04	1360	1500	497.01		0-20	730	1380
11-20	497.97	0-07		1750	1510	497.58		0-03	1190	1300
21-28	497.81		0-16	850	1480	497.39		0-19	480	1240
Mar. 1-10	497.83	0-02		1500	1440	497.32		0-07	970	1190
11-20	497.77		0-06	1220	1430	497.13		0-19	520	1140
21-31	497.91	0-14		1860	1450	497.13			1110	1110
Apr. 1-10	498.83	0-92		4840	1880	497.09		0-04	960	1090
11-20	501.38	2-55		12200	3950	498.42	1-33		5710	1410
21-30	502.51	1-13		10660	7010	502.18	3-76		16360	4220
May 1-10	502.96	0-45		10130	8680	503.19	1-01		11840	8590
11-20	503.60	0-64		12060	10000	502.71		0-48	7640	9190
21-31	503.36		0-24	9780	10500	502.18		0-53	6480	8050
June 1-10	503.09		0-27	9020	9880	501.52		0-66	4690	6820
11-20	502.69		0-40	7740	9050	501.13		0-39	4570	5840
21-30	502.13		0-56	6150	7960	501.05		0-08	5180	5450
July 1-10	501.45		0-08	4520	6700	500.70		0-35	3950	5090
11-20	500.98		0-47	4130	5660	500.31		0-39	3250	4500
21-31	500.74		0-24	4370	5080	499.90		0-41	2730	3940
Aug. 1-10	500.45		0-29	3720	4660	499.57		0-33	2380	3450
11-20	500.14		0-31	3200	4210	499.27		0-30	2080	3050
21-31	499.73		0-41	2500	3710	499.19		0-08	2590	2830
Sept. 1-10	499.39		0-34	2130	3230	498.95		0-24	1840	2630
11-20	499.04		0-35	1680	2800	498.67		0-28	1430	2340
21-30	498.55		0-49	750	2330	498.51		0-16	1590	2100
Oct. 1-10	498.10		0-45	400	1840	498.18		0-33	800	1860
11-20	497.78		0-32	490	1510	498.04		0-14	1190	1650
21-31	497.61		0-17	870	1370	497.71		0-33	490	1470
Nov. 1-10	497.96	0-35		2550	1420	497.34		0-37	60	1260
11-20	497.89		0-07	1260	1500	497.20		0-14	720	1160
21-30	497.92	0-03		1610	1500	497.18		0-02	1070	1130
Dec. 1-10	497.93	0-01		1530	1500	497.08		0-10	780	1100
11-20	498.03	0-10		1870	1540	496.96		0-12	660	1060
21-31	497.96		0-07	1340	1550	496.78		0-18	500	1020
1924										
Jan. 1-10	496.71		0-07	770	1000	498.93		0-15	2090	2560
11-20	496.53		0-18	400	970	498.81		0-12	2020	2410
21-31	496.46		0-07	730	950	498.59		0-22	1570	2220
Feb. 1-10	496.35		0-11	590	950	498.62	0-03		2230	2120
11-20	496.31		0-04	810	930	498.49		0-13	1640	2070
21-29	496.15		0-16	330	920	498.41		0-08	1620	1960
Mar. 1-10	496.19	0-04		1060	920	498.45	0-04		2080	1940
11-20	496.06		0-13	500	910	498.51	0-06		2180	1980
21-31	496.04		0-02	840	910	498.66	0-15		2530	2090
Apr. 1-10	496.27	0-23		1670	920	499.79	1-13		6480	2830
11-20	496.90	0-63		3010	970	500.54	0-75		6450	4040
21-30	497.91	1-01		4470	1210	501.38	0-84		7960	5240
May 1-10	498.42	0-51		3340	1690	501.27		0-11	5510	5860
11-20	499.07	0-65		4380	2280	501.33	0-06		5990	5810
21-31	499.42	0-35		3860	2840	501.26		0-07	5600	5810
June 1-10	499.77	0-35		4400	3270	502.19	0-93		9560	6570
11-20	499.97	0-20		4270	3630	502.39	0-20		8340	7710
21-30	499.98	0-01		3800	3770	502.22		0-17	7200	7750
July 1-10	499.74		0-24	2840	3620	501.99		0-23	6590	7330
11-20	499.36		0-38	1990	3220	501.38		0-61	4540	6510
21-31	499.37	0-01		3020	2990	500.88		0-50	4040	5520
Aug. 1-10	499.02		0-35	1670	2790	500.38		0-50	3110	4710
11-20	498.95		0-07	2320	2540	499.99		0-39	2810	4070
21-31	498.81		0-14	2010	2420	499.60		0-39	2380	3530
Sept. 1-10	498.71		0-10	1970	2290	499.36		0-24	2360	3120
11-20	498.77	0-06		2470	2260	499.26		0-10	2580	2910
21-30	498.89	0-11		2740	2360	498.79		0-47	1060	2590
Oct. 1-10	499.14	0-24		3340	2570	498.54		0-25	1380	2190
11-20	500.02	0-88		6090	3250	498.47		0-07	1760	2000
21-31	500.10	0-08		4100	3880	498.29		0-18	1360	1890
Nov. 1-10	500.07		0-03	3810	3910	498.43	0-14		2310	1870
11-20	500.04		0-03	3770	3870	498.30		0-13	1470	1880
21-30	499.77		0-27	2800	3670	498.10		0-20	1090	1730
Dec. 1-10	499.56		0-21	2700	3370	498.18	0-08		1950	1680
11-20	499.34		0-22	2390	3090	498.07		0-11	1310	1670
21-31	499.08		0-26	2020	2800	498.01		0-06	1410	1590

Lake levels refer to elevations on the 1st, 11th and 21st of each month. Inflow represents 56 per cent of net available run-off from entire Rainy Lake Watershed, evaporation from lakes having been cared for by method of computation used.

RAINY LAKE INVESTIGATION

NAMAKAN LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOW AND OUTFLOW—Continued  
10-DAY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1926										
Jan. 1-10	498-07	0-06		1790	1590	501-12		0-15	5150	5640
11-20	498-09	0-02		1680	1620	500-91		0-21	4660	5330
21-31	498-06		0-03	1530	1620	500-52		0-39	3680	4840
Feb. 1-10	498-05		0-01	1560	1600	500-41		0-11	4100	4440
11-20	498-02		0-03	1470	1560	500-13		0-28	3260	4180
21-28	497-91		0-11	1090	1530	499-83		0-30	2570	3770
Mar. 1-10	497-93	0-02		1570	1500	499-67		0-16	2970	3480
11-20	497-92		0-01	1470	1500	499-64		0-03	3250	3350
21-31	497-99	0-07		1740	1530	499-84	0-20		4040	3460
Apr. 1-10	497-94		0-05	1370	1530	500-61	0-77		6590	4110
11-20	498-68	0-74		4230	1830	504-02	3-41		18760	7750
21-30	494-47	0-79		5210	2650	506-14	2-12		21570	14720
May 1-10	496-69	0-22		3970	3250	507-70	1-56		24720	19680
11-20	499-68		0-01	3380	3400	508-24	0-54		24250	22520
21-31	500-55	0-87		6510	3950	508-01		0-23	22240	22920
June 1-10	500-90	0-35		5980	4850	507-26		0-75	19190	21600
11-20	501-79	0-89		8760	5880	508-64		0-62	17770	19770
21-30	502-74	0-95		10750	7670	506-61		0-03	18970	18870
July 1-10	502-95	0-21		9640	8960	508-68	0-07		19200	19860
11-20	503-83		0-12	8660	9050	506-93	0-25		20150	19360
21-31	502-32		0-51	6820	8310	505-54		1-39	13730	17820
Aug. 1-10	501-78		0-54	5480	7210	503-95		1-59	8690	13830
11-20	501-36		0-42	4920	6280	503-00		0-95	7423	10490
21-31	500-85		0-51	4000	5490	502-21		0-70	6090	8400
Sept. 1-10	500-70		0-15	4480	4950	501-72		0-49	5440	7020
11-20	500-53		0-17	4150	4690	500-76		0-96	2620	5710
21-30	500-49		0-04	4383	4520	500-44		0-32	3640	4660
Oct. 1-10	501-46	0-87		8000	5190	500-29		0-15	3810	4300
11-20	502-04	0-68		8720	6530	499-98		0-31	3010	4000
21-31	502-37	0-33		8500	7540	499-74		0-24	2910	3620
Nov. 1-10	502-48	0-11		8320	7980	499-62		0-12	3000	3380
11-20	502-29		0-19	7290	7900	499-41		0-21	2500	3180
21-30	502-14		0-15	7070	7560	499-18		0-23	2170	2910
Dec. 1-10	501-97		0-17	6680	7230	499-02		0-16	2190	2670
11-20	501-64		0-33	5640	6720	498-04	0-02		2650	2590
21-31	501-27		0-37	4970	6070	498-85		0-19	1940	2500

Lake levels refer to elevations on the 1st, 11th and 21st of each month.

Inflow represents 56 per cent of net available run-off from entire Rainy Lake Watershed, evaporation from lakes having been cared for by method of computation used.

MONTHLY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Mean for month	Change in level				Mean for month	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1914										
Jan.						498-92		0-42	2020	2460
Feb.						498-52		0-29	1690	2020
Mar.	498-20		0-40	1300	1730	498-20		0-44	1270	1730
Apr.	498-75	2-09		4520	2270	498-65	1-31		3570	2160
May	502-19	3-30		10930	7490	500-03	1-23		5130	3840
June	503-57		0-30	10400	10720	502-40	3-67		11880	7940
July	502-60		1-34	7000	8390	503-83		1-08	10270	11390
Aug.	501-15		1-35	4130	5540	501-87		2-41	4370	6870
Sept.	500-51	0-06		4580	4520	500-01		1-03	2700	3810
Oct.	500-32		0-39	3850	4250	499-72	0-03		3450	3430
Nov.	499-72		0-76	2620	3440	500-26	0-82		5050	4170
Dec.	499-35		0-29	2680	2970	500-59	0-06		4700	4640
1916										
Jan.	500-41		0-31	4060	4380	499-81		0-90	2610	3550
Feb.	500-05		0-44	3380	3870	499-17		0-28	2430	2760
Mar.	499-61		0-24	3030	3290	498-91		0-32	2110	2440
Apr.	502-21	6-90		14980	7540	499-11	1-62		4440	2680
May	507-40	1-46		22500	20970	500-89	0-46		5610	5130
June	506-95		2-23	17350	19760	500-54		0-26	4290	4570
1917										
Jan.						499-81		0-90	2610	3550
Feb.						499-17		0-28	2430	2760
Mar.						498-91		0-32	2110	2440
Apr.						499-11	1-62		4440	2680
May						500-89	0-46		5610	5130
June						500-54		0-26	4290	4570

NAMAKAN LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOW AND OUTFLOW—Concluded

MONTHLY MEANS

Date	Computed natural levels				Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Mean for month	Change in level		Mean for month			Change in level				
		Rise, feet	Fall, feet				Rise, feet	Fall, feet			
1916											
July	504.27		2.94	9470	12540	500.50		0.24	4250	4500	
Aug.	501.87		1.60	5190	6350	499.78		0.85	2620	3510	
Sept.	501.37	0.35		6300	5930	499.23		0.40	2400	2830	
Oct.	501.40		0.11	5870	5980	499.04	0.26		2870	2600	
Nov.	501.26		0.46	5260	5740	499.34			2060	2960	
Dec.	500.59		0.73	3900	4650	499.14		0.29	2410	2720	
1917											
Jan.	498.76		0.46	1810	2280	499.18		0.49	2250	2770	
Feb.	498.29		0.43	1320	1810	498.64		0.36	1720	2150	
Mar.	497.93		0.03	1480	1510	498.34		0.08	1780	1860	
April.	498.73	1.41		3770	2250	500.06	3.05		7170	3890	
May.	500.84	2.25		7390	5050	502.37	0.87		8800	7890	
June.	502.15	0.40		7850	7410	502.28		0.56	7070	7680	
July.	501.57		1.02	5220	6280	502.81	0.22		9990	8870	
Aug.	500.52		1.33	3150	4530	501.50		1.25	4840	6450	
Sept.	499.05		1.36	1150	2610	500.07		1.28	2530	3900	
Oct.	498.27		0.23	1550	1799	499.24		0.47	2350	2840	
Nov.	498.89	1.14		3660	2430	499.24	0.38		3250	2840	
Dec.	499.51	0.06		3220	3160	499.30		0.34	2560	2910	
1918											
Jan.	498.94		0.25	2230	2480	497.57		0.09	1190	1290	
Feb.	498.63		0.40	1690	2140	497.50		0.04	1200	1250	
Mar.	498.41	0.64		2590	1920	497.50	0.08		1340	1250	
April.	500.16	2.81		7050	4020	500.04	3.68		7810	3850	
May.	502.51	1.63		9870	8180	501.96	1.27		8370	7040	
June.	504.10	0.30		12440	12110	502.44		0.66	7310	8030	
July.	503.26		1.29	8600	9940	501.30		1.14	4610	5810	
Aug.	501.63		1.84	4470	6390	500.06		1.00	2840	3889	
Sept.	500.06		1.31	2480	3890	499.66		0.19	3160	3360	
Oct.	498.86		1.02	1340	2400	499.13		0.60	2080	2710	
Nov.	497.95		0.68	790	1520	498.43		0.62	1270	1940	
Dec.	497.57		0.10	1190	1290	498.17		0.14	1560	1700	
1919											
Jan.	498.02		0.21	1340	1570	497.90		0.15	1330	1490	
Feb.	497.92		0.13	1350	1500	497.60		0.42	820	1310	
Mar.	497.82	0.10		1540	1440	497.25		0.26	870	1150	
April.	500.34	4.60		9230	4280	498.72	5.05		7680	2240	
May.	503.18	0.85		10630	9750	502.68			8580	8590	
June.	502.85		1.23	7640	8960	501.43		1.13	4810	6040	
July.	501.29		1.39	4340	5790	500.49		1.15	3290	4490	
Aug.	500.27		1.01	3120	4180	499.46		0.71	2360	3100	
Sept.	499.20		1.18	1520	2796	498.83		0.68	1620	2360	
Oct.	498.02		0.84	600	1570	498.11		0.80	820	1650	
Nov.	497.87	0.31		1810	1470	497.33		0.53	620	1180	
Dec.	497.97	0.04		1570	1530	497.03		0.40	640	1060	
1920											
Jan.	496.62		0.32	640	970	498.86		0.49	1880	2360	
Feb.	496.32		0.31	580	930	498.55		0.18	1840	2060	
Mar.	496.11		0.11	800	910	498.52	0.25		2270	2010	
April.	496.90	1.87		3050	1030	500.17	2.72		6960	4040	
May.	498.76	1.51		3860	2290	501.31		0.12	5700	5820	
June.	499.82	0.56		4160	3560	502.11	0.96		8370	7340	
July.	499.59		0.61	2630	3270	501.64		1.34	5020	6420	
Aug.	499.02		0.56	2000	2580	500.20		1.28	2750	4080	
Sept.	498.78	0.08		2390	2300	499.27		0.81	2000	2870	
Oct.	499.55	1.20		4500	3250	498.51		0.50	1500	2020	
Nov.	500.01		0.33	3460	3820	498.30		0.19	1620	1820	
Dec.	499.44		0.69	2360	3080	498.10		0.09	1550	1640	
1921											
Jan.	498.07	0.05		1660	1610	500.98		0.75	4470	5260	
Feb.	498.01		0.15	1390	1560	500.26		0.69	3360	4160	
Mar.	497.93	0.08		1600	1510	499.72	0.01		3440	3430	
April.	498.50	1.58		3600	2000	502.80	6.30		15640	8860	
May.	499.81	1.68		4680	3550	507.68	1.87		23690	21750	
June.	501.49	2.19		8500	6130	507.07		1.40	18640	20080	
July.	502.76		0.42	8320	8760	506.55		1.07	17570	18680	
Aug.	501.58		1.47	4770	6300	503.61		3.33	7360	10830	
Sept.	500.64		0.36	4340	4720	501.29		1.77	3900	5800	
Oct.	501.66	1.88		8410	6460	500.12		0.70	3230	3960	
Nov.	502.34		0.23	7560	7810	499.51		0.56	2560	3160	
Dec.	501.76		0.87	5740	6650	499.03		0.33	2240	2580	

RAINY LAKE INVESTIGATION

SEINE RIVER, NEAR LA SEINE, ONT.

Records of Dominion Water Power and Reclamation Service.

Location.—In Mills Creek about 400 feet north of water tank at La Seine station.

Gauge.—Staff, read daily.

Drainage area.—2,300 square miles.

Discharge Measurements.—From boat.

Records Available.—August, 1914, to May, 1927. Station discontinued May 22, 1927.

Extremes of Stage Recorded.—Maximum, June 1, 1916 (g.h. 1151.20), 8770 sec. ft.; Minimum, March 1917 (g.h. 1144.19), 283 sec. ft.

Datum.—Geodetic Survey of Canada, B.M. 48E. Copper bolt sunk in rock near La Seine station. Elevation, 1180-126.

DISCHARGE MEASUREMENTS—SEINE RIVER—NEAR LA SEINE, ONT.

Records of Ontario Hydro-Electric Power Commission.

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height	Dis-charge	Remarks
		Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	
1914							
Aug. 14	J. R. Taylor	195	2000	0.66	1146.94	1330	
Sept. 22	"	199	2080	0.80	47.83	1670	
Oct. 13	"	199	2061	0.73	47.25	1522	
Nov. 10	"	195	2000	0.64	46.98	1284	
Dec. 5	"	185	1849	0.57	46.35	1059	Ice conditions.
1915							
Jan. 27	"	173	1585	0.39	45.88	620	"
Feb. 26	"	168	1486	0.36	45.50	543	"
Mar. 29	"	167	1554	0.30	45.35	469	"
April 5	"	167	1641	0.28	45.22	459	
May 20	"	197	2059	0.75	47.24	1540	
June 28	"	206	2280	1.12	48.34	2553	
July 23	"	203	2179	0.97	47.92	2117	
July 24	"	203	2217	0.98	48.01	2185	
Aug. 30	"	187	1886	0.54	46.50	1026	
Aug. 31	"	187	1886	0.53	46.45	1008	
Sept. 1	"	187	1886	0.53	46.41	1005	
Sept. 1	"	188	1867	0.53	46.37	990	
Oct. 1	"	189	1942	0.59	49.70	1154	
1916							
June 6	"	209	3045	2.39	51.83	7261	
June 6	"	209	3045	2.40	51.03	7305	
July 13	"	206	2449	1.33	49.31	3258	
1917							
Aug. 27	"	186	1903	0.54	46.46	1028	

To reduce records to sea-level datum subtract 1.40 feet.

DISCHARGE TABLE FOR SEINE RIVER—NEAR LA SEINE, ONT.

From Sept., 1914, to Sept., 1917

COMPILED FROM RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1146.00			1148.00	2090	85	1150.00	4295	135	1152.00	7625	195
46.10			48.10	2175	90	50.10	4430	140	52.10	7820	195
46.20			48.20	2265	90	50.20	4570	140	52.20	8015	200
46.30	900		48.30	2355	90	50.30	4715	145	52.30	8215	200
46.40	960	60	48.40	2450	95	50.40	4865	150	52.40	8415	200
46.50	1020	60	48.50	2545	95	50.50	5020	155	52.50	8620	205
46.60	1080	60	48.60	2645	100	50.60	5175	155	52.60	8830	210
46.70	1140	60	48.70	2745	100	50.70	5330	155			
46.80	1200	60	48.80	2850	105	50.80	5485	155			
46.90	1260	60	48.90	2955	105	50.90	5645	160			
1147.00	1325	65	1149.00	3065	110	1151.00	5810	165			
47.10	1390	65	49.10	3175	110	51.10	5980	170			
47.20	1460	70	49.20	3290	115	51.20	6155	175			
47.30	1530	70	49.30	3405	115	51.30	6330	180			
47.40	1605	75	49.40	3525	120	51.40	6510	180			
47.50	1680	75	49.50	3650	125	51.50	6690	185			
47.60	1760	80	49.60	3775	125	51.60	6875	185			
47.70	1840	80	49.70	3900	130	51.70	7060	185			
47.80	1920	85	49.80	4030	130	51.80	7245	190			
47.90	2005	85	49.90	4160	135	51.90	7435	190			

To reduce to sea-level datum, subtract 1.40 feet.



## DISCHARGE MEASUREMENTS, SEINE RIVER—NEAR LA SEINE, ONT.

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G.S. of Canada Datum]

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height	Discharge	Remarks
		Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	
1920							
Oct. 7	F. S. Smith	183	1810	0.47	1144.71	860	
7	"	183	1820	0.47	44.71	850	
Nov. 16	C. O. Allen	181	1820	0.46	44.62	835	
1921							
Jan. 29	C. O. Allen	90	324	2.20	44.45	712	Ice conditions.
29	"	90	324	2.20	44.45	715	"
April 16	"	202	2110	1.03	46.53	2170	
May 2	"	208	2240	1.22	47.12	2700	
18	"	205	2360	1.59	48.10	3770	
July 14	W. H. Wallace	199	2020	0.92	46.24	1860	
Aug. 1	C. O. Allen	193	1930	0.67	45.59	1310	
26	"	190	1880	0.58	45.27	1090	
Sept. 7	"	188	1860	0.56	45.20	1050	
27	"	191	1930	0.62	45.42	1190	
Oct. 6	"	191	1930	0.60	45.41	1150	
6	"	191	1930	0.59	45.41	1130	
Nov. 1	"	191	1930	0.59	45.37	1140	
1	"	191	1930	0.60	45.37	1160	
17	"	189	1880	0.54	45.12	1010	
Dec. 10	"	182	1820	0.50	44.82	909	
22	"	172	1790	0.48	44.74	868	
1922							
Feb. 2	C. O. Allen	87	336	2.49	44.70	838	Ice conditions.
23	"	83	303	2.50	44.53	759	"
23	"	83	303	2.49	44.53	755	"
Mar. 8	"	78	277	2.49	44.36	689	"
8	"	78	277	2.47	44.36	683	"
April 21	"	202	2120	0.91	46.32	1920	
May 13	"	206	2440	1.44	47.90	3510	
13	"	206	2440	1.43	47.90	3490	
24	"	206	2500	1.59	48.18	3960	
June 14	"	204	2270	1.19	47.12	2690	
July 22	"	194	2030	0.76	45.92	1540	
Aug. 30	"	193	1940	0.60	45.45	1160	
Oct. 5	"	184	1790	0.44	44.56	790	
Oct. 31	C. O. Allen	177	1710	0.39	1144.25	670	
Nov. 9	"	179	1750	0.43	44.45	746	
Dec. 9	"	169	1690	0.39	44.24	658	Ice conditions.
19	"	80	297	2.30	44.32	683	"
1923							
Jan. 11	C. O. Allen	75	301	2.29	44.34	691	"
30	"	71	291	2.32	44.37	675	"
Mar. 20	"	68	269	2.66	44.40	717	"
April 26	"	200	2210	1.07	46.75	2370	
June 15	"	197	2050	0.75	45.95	1530	
Aug. 23	"	193	1990	0.67	45.65	1340	
Oct. 27	"	176	1730	0.39	44.27	683	
1924							
Jan. 24	C. O. Allen	71	270	2.14	44.00	579	Ice conditions.
Mar. 14	"	66	221	1.92	43.52	424	"
May 17	"	196	2130	0.94	46.37	2000	
June 13	"	198	2050	0.78	46.01	1600	
1925							
Feb. 17	C. O. Allen	83	311	2.57	44.66	798	Ice conditions.
Mar. 28	"	80	293	2.48	44.46	727	"
April 17	"	200	2020	0.70	45.75	1410	
30	"	197	2130	0.92	46.36	1960	
June 10	"	196	2130	0.93	46.37	1980	
Nov. 12	"	171	1580	0.25	43.47	394	
Dec. 19	"	75	241	1.49	43.41	359	Ice conditions.

DISCHARGE MEASUREMENTS, SEINE RIVER—NEAR LA SEINE, ONT.—Concluded

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G.S. of Canada Datum]

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height	Discharge	Remarks
		Feet	Sq. ft.	Ft.persec.	Feet	Sec.-ft.	
1926							
Jan. 30.....	C. O. Allen.....	70	225	2.05	43.65	463	Ice conditions.
Feb. 20.....	".....	67	227	2.00	43.71	453	"
Mar. 19.....	".....	64	236	2.07	43.77	488	"
Aug. 18.....	T. H. Burt.....	195	2170	0.94	46.50	2050	
1927							
Jan. 17.....	T. H. Burt.....	175	1560	0.75	45.56	1180	"
Feb. 28.....	".....	165	1320	0.53	44.86	705	"
Mar. 20.....	".....	165	1260	0.52	44.52	654	"
April 30.....	".....	190	1740	1.51	47.11	2620	
30.....	".....	190	1770	1.49	47.10	2630	

DISCHARGE TABLE—SEINE RIVER—NEAR LA SEINE, ONT.

COMPILED FROM RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION AND DOMINION WATER POWER AND RECLAMATION SERVICE

Gauge height	Discharge	Diff-erence	Gauge height	Discharge	Diff-erence	Gauge height	Discharge	Diff-erence	Gauge height	Discharge	Diff-erence	Gauge height	Discharge	Diff-erence
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1143.00	258	28	1145.00	975	50	1147.00	2630	105	1149.00	4995	140	1151.00	8340	210
43.10	286	28	45.10	1025	50	47.10	2735	105	49.10	5135	140	51.10	8550	215
43.20	314	30	45.20	1075	55	47.20	2840	105	49.20	5275	145	51.20	8765	.....
43.30	344	30	45.30	1130	60	47.30	2945	105	49.30	5420	150	51.30	.....	.....
43.40	374	32	45.40	1190	65	47.40	3050	105	49.40	5570	150	51.40	.....	.....
43.50	406	32	45.50	1255	65	47.50	3155	105	49.50	5720	155	51.50	.....	.....
43.60	438	32	45.60	1320	70	47.60	3260	110	49.60	5875	155	51.60	.....	.....
43.70	470	35	45.70	1390	75	47.70	3370	115	49.70	6030	160	51.70	.....	.....
43.80	505	35	45.80	1465	80	47.80	3485	115	49.80	6190	160	51.80	.....	.....
43.90	540	35	45.90	1545	85	47.90	3600	115	49.90	6350	160	51.90	.....	.....
1144.00	575	35	1146.00	1630	90	1148.00	3715	115	1150.00	6510	165			
44.10	610	35	47.10	1720	95	48.10	3830	120	50.10	6675	165			
44.20	645	35	46.20	1815	95	48.20	3950	120	50.20	6840	170			
44.30	680	40	46.30	1910	100	48.30	4070	125	50.30	7010	175			
44.40	720	40	46.40	2010	100	48.40	4195	130	50.40	7185	180			
44.50	760	40	46.50	2110	100	48.50	4325	130	50.50	7365	185			
44.60	800	40	46.60	2210	105	48.60	4455	135	50.60	7550	190			
44.70	840	45	46.70	2315	105	48.70	4590	135	50.70	7740	195			
44.80	885	45	46.80	2420	105	48.80	4725	135	50.80	7935	200			
44.90	930	45	46.90	2525	105	48.90	4860	135	50.90	8135	205			

The above table is applicable for ice conditions up to 1926. It is based on all discharge measurements made from 1914 to 1927.

Elevations to G.S. of Canada Datum.  
Ref. to B.M. 48E. Elev. 1180.126.

## WATER LEVELS—SEINE RIVER—NEAR LA SEINE, ONT.

## RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

[To reduce to sea-level datum subtract 1.40 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1										1147-18	1147-12	1146-96
2										47-18	47-10	46-94
3										47-16	47-12	46-94
4										47-16	47-11	46-93
5										47-16	47-10	46-91
6										47-16	47-10	46-89
7										47-16	47-10	46-87
8										47-14	47-10	46-86
9										47-14	47-10	46-83
10										47-16	47-08	46-79
11										47-23	47-06	46-75
12										47-23	47-02	46-69
13										47-25	47-06	46-65
14										47-25	47-07	46-62
15										47-23	47-07	46-57
16										47-21	47-06	46-56
17										47-19	47-01	46-53
18										47-17	47-00	46-48
19										47-13	47-00	46-45
20										47-10	46-98	46-41
21										47-08	46-97	46-42
22									1147-43	47-08	46-96	46-41
23										47-37	47-13	46-39
24										47-36	47-14	46-38
25										47-37	47-14	46-36
26										47-30	47-12	46-34
27										47-27	47-10	46-31
28										47-26	47-08	46-26
29										47-21	47-06	46-21
30										47-18	47-05	46-17
31										47-04		46-14
1915												
1	1146-21	1145-91	1145-42							1146-70	1147-77	1147-31
2	46-13	45-87	45-41							46-72	47-77	47-27
3	46-14	45-85	45-41							46-72	47-78	47-27
4	46-12	45-88								46-74	47-79	47-18
5	46-08	45-88		1145-25						46-72	47-79	47-18
6	46-07	45-88		45-39						46-74	47-79	47-18
7	46-05	45-83		45-56						46-79	47-82	47-10
8	46-03	45-83		46-31						46-83	47-85	47-10
9	46-00	45-83		46-52						46-87	47-85	47-10
10	46-00	45-80		46-48						46-85	47-90	46-89
11	45-41	45-76		46-48						46-93	47-98	46-85
12	45-42	45-76		46-18						46-98	48-08	46-85
13	45-42	45-72		46-13						47-02	48-10	46-79
14	45-43	45-70		46-08						47-04	47-77	46-72
15	45-43	45-67		46-09						47-08	47-68	46-64
16	45-43	45-65		45-98						47-10	47-60	46-60
17	45-44	45-63		45-84						47-12	47-52	46-60
18	45-44	45-61		45-77						47-18	47-43	46-54
19	45-44	45-60		45-76						47-20	47-52	46-52
20	45-45	45-58		45-70						47-27	47-52	46-48
21	45-45	45-56		45-71						47-31	47-43	46-43
22	45-45	45-53		45-72						47-36	47-43	46-43
23	45-46	45-51		45-74						47-40	47-43	46-39
24	45-82	45-48		45-80						47-45	47-35	46-39
25	45-88	45-47		45-87						47-54	47-35	46-39
26	45-89	45-45		45-90						47-56	47-35	46-37
27	45-89	45-45		45-93						47-58	47-35	46-35
28	45-89	45-44		46-01						47-62	47-35	46-35
29	45-90			46-00						47-68	47-35	46-35
30	45-90			46-00						47-70	47-31	46-35
31	45-88									47-72		46-35

RAINY LAKE INVESTIGATION

WATER LEVELS—SEINE RIVER—NEAR LA SEINE, ONT.—Continued

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

[To reduce to sea-level datum subtract 1.40 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	1146-35	1145-72	1145-35	1145-43	1150-02	1152-60	1149-87	1148-19	1147-16	1147-81	1147-39	1146-48
2	46-35	45-68	45-35	45-52	50-08	52-52	49-81	48-12	47-14	47-81	47-39	46-47
3	46-35	45-68	45-35	45-56	50-16	52-31	49-81	48-08	47-19	47-81	47-39	46-46
4	46-31	45-64	45-35	45-60	50-27	52-18	49-73	48-02	47-23	47-79	47-39	46-46
5	46-31	45-60	45-31	45-60	50-48	52-10	49-64	47-93	47-23	47-71	47-33	46-46
6	46-33	45-60	45-27	45-60	50-56	51-83	49-62	47-98	47-23	47-65	47-37	46-43
7	46-27	45-56	45-27	45-60	50-77	51-69	49-56	47-93	47-23	47-64	47-41	46-43
8	46-27	45-52	45-22	45-64	51-06	51-52	49-52	47-85	47-23	47-64	47-46	46-41
9	46-25	45-52	45-22	45-68	51-31	51-52	49-46	47-79	47-21	47-64	47-48	46-41
10	46-22	45-48	45-22	45-68	51-52	51-41	49-41	47-77	47-19	47-64	47-41	46-41
11	46-25	45-43	45-18	45-77	51-52	51-31	49-37	47-69	47-16	47-64	47-37	46-39
12	46-18	45-39	45-18	45-81	51-52	51-29	49-31	47-62	47-14	47-62	47-30	46-39
13	46-14	45-39	45-18	45-83	51-72	51-29	49-27	47-58	47-08	47-60	46-93	46-39
14	46-14	45-39	45-18	46-27	51-81	51-14	49-23	47-55	47-12	47-58	46-71	46-37
15	46-10	45-35	45-18	46-52	51-81	51-06	49-16	47-50	47-14	47-56	46-60	46-37
16	46-06	45-35	45-18	46-93	51-98	51-02	49-10	47-50	47-14	47-56	46-56	46-35
17	46-02	45-35	45-18	47-10	52-02	50-89	49-04	47-56	47-14	47-54	46-56	46-34
18	46-02	45-35	45-18	47-43	52-10	50-77	48-98	47-50	47-14	47-54	46-56	46-33
19	46-02	45-35	45-18	48-22	52-16	50-69	48-89	47-52	47-14	47-56	46-52	46-31
20	46-02	45-35	45-18	48-77	52-20	50-54	48-81	47-46	47-14	47-56	46-52	46-30
21	45-95	45-35	45-18	49-02	52-27	50-35	48-73	47-46	47-39	47-56	46-52	46-29
22	45-93	45-35	45-18	49-10	52-27	50-31	48-69	47-54	47-56	47-56	46-52	46-27
23	45-93	45-35	45-18	49-43	52-35	50-27	48-62	47-54	47-64	47-56	46-52	46-27
24	45-89	45-35	45-18	49-52	52-29	50-27	48-56	47-50	47-89	47-50	46-52	46-27
25	45-95	45-35	45-18	49-56	52-27	50-23	48-54	47-48	47-98	47-41	46-50	46-27
26	45-85	45-35	45-18	49-60	52-22	50-14	48-48	47-46	47-98	47-39	46-50	46-27
27	45-85	45-35	45-27	49-72	52-18	50-06	48-46	47-41	47-98	47-39	46-48	46-27
28	45-85	45-25	45-27	49-81	52-18	50-12	48-39	47-37	47-89	47-39	46-48	46-27
29	45-85	45-35	45-31	49-89	52-18	49-93	48-30	47-29	47-89	47-37	46-48	46-27
30	45-81	45-35	45-35	49-93	52-18	49-93	48-26	47-25	47-93	47-37	46-48	46-26
31	45-77	45-39	45-39	49-93	52-27	48-22	48-22	47-23	47-39	47-39	46-48	46-25
1917												
1	1146-37	1145-98	1145-27	1145-19	1145-98	1148-16	1147-93	1146-97	1147-01			
2	46-37	45-89	45-27	45-19	46-02	48-27	47-93	46-97	46-97			
3	46-37	45-85	45-27	45-19	46-06	48-32	47-88	46-93	46-93			
4	46-37	45-85	45-27	45-19	46-06	48-38	47-84	46-97	46-91			
5	46-37	45-81	45-27	45-19	46-06	48-40	47-80	46-96	46-87			
6	46-35	45-81	45-27	45-19	46-14	48-47	47-76	46-96	46-85			
7	46-35	45-60	45-27	45-19	46-19	48-47	47-76	46-92	46-80			
8	46-35	45-56	45-27	45-19	46-19	48-40	47-54	46-92	46-76			
9	46-34	45-56	45-27	45-19	46-23	48-38	47-54	46-88	46-76			
10	46-33	45-54	45-27	45-19	46-23	48-37	47-50	46-88	46-72			
11	46-31	45-54	45-23	45-19	46-23	48-33	47-46	46-88	46-68			
12	46-27	45-52	45-23	45-19	46-23	48-27	47-46	46-87	46-68			
13	46-25	45-52	45-23	45-19	46-31	48-19	47-46	46-82	46-47			
14	46-25	45-52	45-23	45-19	46-39	48-14	47-46	46-82	46-43			
15	46-23	45-50	45-23	45-16	46-43	48-12	47-45	46-78	46-39			
16	46-23	45-48	45-23	45-16	46-48	48-06	47-41	46-78	46-39			
17	46-23	45-48	45-23	45-23	46-56	48-03	47-41	46-78	46-39			
18	46-19	45-48	45-23	45-27	46-81	47-97	47-36	46-78	46-35			
19	46-19	45-48	45-23	45-27	46-89	47-95	47-32	46-73	46-35			
20	46-16	45-48	45-19	45-31	46-98	48-03	47-28	46-73	46-35			
21	46-16	45-48	45-19	45-31	47-04	48-09	47-24	46-69	46-39			
22	46-14	45-43	45-19	45-39	47-14	48-09	47-19	46-69	46-39			
23	46-14	45-43	45-19	45-48	47-19	48-01	47-19	46-81	46-39			
24	46-13	45-39	45-19	45-56	47-23	47-94	47-15	46-92	46-35			
25	46-12	45-35	45-19	45-60	47-31	47-94	47-15	46-94	46-35			
26	46-11	45-35	45-19	45-60	47-33	47-92	47-15	46-93	46-39			
27	46-10	45-35	45-19	45-60	47-41	47-85	47-11	46-93	46-39			
28	46-06	45-35	45-19	45-60	47-50	47-94	47-06	46-93	46-43			
29	46-04	45-35	45-19	45-60	47-59	47-94	47-06	46-97	46-43			
30	46-02	45-35	45-19	45-81	47-87	47-94	47-05	46-99	46-43			
31	46-00	45-35	45-19	45-81	48-02	47-94	47-01	47-01	46-43			

WATER LEVELS—SEINE RIVER—NEAR LA SEINE, ONT.—Concluded

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Elevations refer to G.S. of Canada Datum

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1											1144.60	
2											44.65	
3											44.65	
4											44.65	
5											44.65	
6												
7										1144.75		
8										44.75		
9										44.60		
10										44.65		
11											44.65	
12											44.65	
13											44.65	
14											44.65	
15											44.65	
16											44.65	
17											44.65	
18											44.65	
19											44.65	
20											44.65	
21											44.65	
22											44.65	
23											44.65	
24											44.65	
25											44.65	
26											44.65	
27											44.65	
28											44.65	
29											44.65	
30											44.65	
31											44.60	
1921												
1		1144.40	1144.25	1144.25	1146.85	1147.97	1146.82	1145.57	1145.22	1145.37	1145.37	1144.92
2		44.40	44.25	44.25	47.12	48.07	46.77	45.57	45.22	45.42	45.37	44.92
3		44.40	44.25	44.55	47.17	48.07	46.67	45.57	45.22	45.42	45.37	44.90
4		44.40	44.25	44.75	44.27	48.07	46.62	45.57	45.22	45.42	45.34	44.87
5		44.35	44.25	45.05	47.37	48.07	46.57	45.52	45.27	45.42	45.32	44.87
6		44.35	44.25	45.55	47.42	48.02	46.52	45.47	45.27	45.42	45.30	44.87
7	1144.55	44.35	44.25	46.05	47.47	47.97	46.47	45.47	45.22	45.44	45.27	44.84
8	44.55	44.35	44.25	46.65	47.52	47.92	46.42	45.47	45.17	45.44	45.25	44.84
9	44.55	44.40	44.25	47.17	47.57	47.87	46.37	45.42	45.32	45.46	45.22	44.83
10	44.55	44.40	44.25	47.07	47.62	47.82	46.27	45.37	45.37	45.47	45.20	44.82
11	44.55	44.45	44.25	46.87	47.67	47.77	46.22	45.32	45.47	45.47	45.17	44.84
12	44.55	44.45	44.25	46.77	47.77	47.72	46.22	45.32	45.42	45.47	45.17	44.84
13	44.55	44.45	44.25	46.67	47.82	47.72	46.27	45.22	45.42	45.47	45.12	44.82
14	44.55	44.40	44.25	46.57	47.92	47.72	46.22	45.22	45.42	45.47	45.12	44.83
15	44.55	44.40	44.25	46.57	47.97	47.67	46.17	45.22	45.37	45.47	45.12	44.77
16	44.55	44.35	44.25	46.51	48.02	47.67	46.12	45.22	45.37	45.46	45.12	44.77
17	44.50	44.35	44.25	46.52	48.07	47.62	46.07	45.25	45.37	45.47	45.10	44.83
18	44.50	44.25	44.25	46.47	48.12	47.57	46.02	45.22	45.42	45.45	45.07	44.77
19	44.50	44.25	44.25	46.42	48.12	47.57	45.97	45.27	45.32	45.47	45.07	44.78
20	44.45	44.25	44.25	46.37	48.12	47.52	45.92	45.27	45.32	45.52	45.00	44.77
21	44.45	44.25	44.25	46.27	48.07	47.47	45.87	45.27	45.37	45.50	45.02	44.77
22	44.45	44.25	44.25	46.17	48.02	47.37	45.82	45.27	45.37	45.47	45.02	44.77
23	44.45	44.25	44.25	46.07	48.02	47.27	45.77	45.27	45.37	45.47	45.02	44.77
24	44.45	44.25	44.25	45.97	47.97	47.17	45.67	45.27	45.42	45.47	45.02	44.77
25	44.45	44.25	44.25	46.17	47.97	47.07	45.62	45.27	45.42	45.47	45.02	44.67
26	44.45	44.25	44.25	46.27	47.92	46.97	45.57	45.27	45.42	45.45	45.00	44.67
27	44.45	44.25	44.25	46.07	47.92	46.97	45.62	45.27	45.42	45.44	44.97	44.67
28	44.45	44.25	44.25	46.37	47.92	46.92	45.62	45.27	45.42	45.42	44.97	44.67
29	44.45	44.25	44.25	46.27	47.87	46.92	45.57	45.27	45.37	45.42	44.97	44.67
30	44.40	44.25	44.25	45.97	47.92	46.87	45.57	45.27	45.37	45.42	44.94	44.67
31	44.40	44.25	44.25	47.92	47.92	46.87	45.62	45.27	45.42	45.41	44.94	44.67

NOTE.—Nov. 5, 1920, to Jan. 6, 1921, temporary dam erected by C.N.R. below gauge.

RAINY LAKE INVESTIGATION

WATER LEVELS—SEINE RIVER—NEAR LA SEINE, ONT.—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G.S. of Canada Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	1144.67	1144.67	1144.51	1144.14	1146.55	1147.88	1146.70	1145.80	1145.40	1144.60	1144.29	1144.16
1	44.67	44.70	44.54	44.16	46.53	47.84	46.68	45.80	45.40	44.60	44.40	44.18
3	44.67	44.70	44.54	44.18	46.66	47.60	46.65	45.78	45.38	44.60	44.40	44.19
4	44.67	44.67	44.49	44.19	46.75	47.65	46.63	45.74	45.34	44.58	44.36	44.19
5	44.57	44.62	44.49	44.29	46.76	47.30	46.60	45.70	45.30	44.56	44.36	44.22
6	44.57	44.57	44.44	44.59	46.95	47.10	46.60	45.70	45.30	44.50	44.42	44.22
7	44.67	44.64	44.40	44.79	47.06	46.90	46.59	45.70	45.25	44.55	44.57	44.20
8	44.67	44.47	44.36	45.09	47.15	46.60	46.53	45.70	45.25	44.55	44.58	44.23
9	44.67	44.47	44.36	45.59	47.26	46.60	46.55	45.69	45.23	44.50	44.45	44.24
10	44.62	44.47	44.34	45.69	47.46	46.67	46.46	45.69	45.21	44.55	44.40	44.24
11	44.64	44.47	44.24	45.79	47.66	46.66	46.40	45.70	45.15	44.58	44.32	44.24
12	44.64	44.47	44.24	46.89	47.86	46.69	46.37	45.68	45.12	44.58	44.32	44.25
13	44.62	44.47	44.24	46.79	47.90	46.65	46.33	45.70	45.17	44.40	44.32	44.25
14	44.62	44.47	44.24	46.94	47.95	47.10	46.30	45.70	45.17	44.45	44.30	44.30
15	44.57	44.47	44.24	46.69	47.00	47.10	46.26	45.70	45.15	44.46	44.32	44.30
16	44.57	44.52	44.21	46.29	48.05	47.14	46.23	45.69	45.13	44.46	44.35	44.30
17	44.62	45.47	44.21	46.39	48.09	47.13	46.20	45.68	45.10	44.46	44.35	44.30
18	44.64	45.47	44.14	46.49	48.10	47.10	46.14	45.65	45.08	44.48	44.37	44.32
19	44.64	45.47	44.14	46.49	48.20	47.08	46.10	45.63	45.02	44.30	44.38	44.33
20	44.67	45.52	44.16	46.39	48.24	47.03	46.02	45.62	45.00	44.37	44.30	44.36
21	44.67	44.47	44.14	46.31	48.27	47.00	45.94	45.60	44.97	44.38	44.20	44.40
22	44.74	44.47	44.14	46.32	48.23	46.95	45.92	45.62	44.93	44.38	44.25	44.45
23	44.74	44.47	44.14	46.26	48.20	46.90	46.00	45.63	44.86	44.35	44.25	44.46
24	44.77	44.51	44.13	46.46	48.20	46.87	45.97	45.65	44.80	44.36	44.26	44.48
25	44.83	44.51	44.14	46.55	48.17	46.83	45.95	45.62	44.75	44.37	44.29	44.49
26	44.83	44.50	44.14	46.46	48.14	46.80	45.93	45.60	44.72	44.31	44.10	44.46
27	44.77	44.51	44.14	46.49	48.10	46.89	45.00	45.56	44.70	44.31	44.10	44.30
28	44.77	44.50	44.14	46.46	48.10	46.83	45.88	45.50	44.63	44.22	44.10	44.30
29	44.67	44.50	44.16	46.49	48.00	46.77	45.86	45.48	44.65	44.22	44.12	44.32
30	44.70	44.50	44.15	46.46	47.95	46.73	45.83	45.45	44.60	44.25	44.12	44.32
31	44.67	44.50	44.14	46.46	47.90	46.70	45.80	45.42	44.25	44.25	44.12	44.30
1923												
1	1144.30	1144.35	1144.25	1144.60	1146.75	1146.85	1145.50	1145.50	1145.52	1144.79	1144.21	1143.99
2	44.32	44.35	44.18	44.63	46.85	46.80	45.45	45.60	45.53	44.74	44.19	43.99
3	44.32	44.35	44.10	44.60	46.95	46.75	45.35	45.60	45.49	44.71	44.17	43.99
4	44.32	44.38	44.12	44.63	47.00	46.65	45.30	45.55	45.50	44.69	44.14	44.00
5	44.30	44.39	44.13	44.64	47.05	46.60	45.26	45.55	45.42	44.64	44.14	43.99
6	44.32	44.40	44.14	44.65	47.10	46.54	45.22	45.62	45.41	44.61	44.13	43.99
7	44.32	44.45	44.17	44.66	47.17	46.47	45.29	45.58	45.40	44.59	44.12	44.00
8	44.30	44.50	44.16	44.67	47.25	46.40	45.30	45.60	45.38	44.58	44.10	43.99
9	44.32	44.50	44.14	44.69	47.40	46.33	45.35	45.59	45.34	44.56	44.09	43.98
10	44.34	44.55	44.10	44.69	47.45	46.26	45.32	45.60	45.32	44.54	44.08	43.97
11	44.35	44.55	44.13	44.69	47.47	46.20	45.55	45.73	45.29	44.53	44.07	43.98
12	44.33	44.55	44.16	44.50	47.50	46.15	45.70	45.74	45.29	44.51	44.05	43.97
13	44.32	44.55	44.17	44.50	47.55	46.08	45.75	45.75	45.22	44.49	44.05	43.97
14	44.30	44.50	44.19	44.50	47.60	46.00	45.61	45.86	45.20	44.47	44.04	43.97
15	44.30	44.56	44.20	44.57	47.60	45.95	45.51	45.85	45.15	44.46	44.04	43.97
16	44.32	44.54	44.20	44.58	47.60	45.87	45.50	45.80	45.10	44.44	44.05	43.97
17	44.32	44.54	44.22	44.59	47.60	45.84	45.45	45.75	45.12	44.43	44.04	43.96
18	44.32	44.58	44.29	44.59	47.60	45.76	45.42	45.75	45.15	44.42	44.04	43.96
19	44.30	44.40	44.30	44.60	47.60	45.66	45.35	45.74	45.14	44.40	44.04	43.96
20	44.32	44.45	44.40	45.90	47.65	45.65	45.34	45.70	45.12	44.38	44.03	43.96
21	44.34	44.42	44.47	46.33	47.68	45.67	45.33	45.65	45.10	44.36	44.02	43.97
22	44.35	44.47	44.50	47.30	47.52	45.88	45.29	45.64	45.09	44.34	44.02	43.96
23	44.35	44.30	44.54	46.90	47.55	46.09	45.38	45.61	45.08	44.33	44.01	43.99
24	44.34	44.30	44.50	46.65	47.40	46.00	45.35	45.56	45.05	44.32	44.01	44.00
25	44.35	44.32	44.50	46.35	47.45	45.88	45.35	45.54	45.02	44.30	44.02	44.01
26	44.35	44.34	44.54	46.75	47.30	45.80	45.45	45.52	45.00	44.29	44.03	44.02
27	44.37	44.20	44.56	46.80	47.20	45.76	45.46	45.50	44.95	44.27	44.02	44.03
28	44.39	44.22	44.59	46.80	47.25	45.66	45.50	45.50	44.92	44.25	44.01	44.03
29	44.37	44.22	44.59	46.82	47.10	45.62	45.55	45.49	44.90	44.24	44.00	44.03
30	44.37	44.22	44.60	46.85	47.17	45.58	45.59	45.50	44.85	44.24	43.99	44.03
31	44.35	44.22	44.60	46.95	47.15	45.58	45.62	45.51	44.25	44.23	43.99	44.02

## WATER LEVELS—SEINE RIVER—NEAR LA SEINE, ONT.—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G.S. of Canada Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1.....	1144.05	1143.86	1143.62	1143.52	1146.00	1146.29	1145.64	1145.03	1144.43	1145.03	1145.69	1145.00
2.....	44.05	43.84	43.61	43.53	45.98	46.27	45.61	45.00	44.42	45.03	45.68	44.99
3.....	44.06	43.82	43.60	43.54	45.94	46.24	45.59	44.98	44.39	45.04	45.67	44.98
4.....	44.05	43.80	43.60	43.55	45.92	46.19	45.59	44.95	44.37	45.07	45.66	44.96
5.....	44.05	43.78	43.59	43.64	45.90	46.26	45.56	44.91	44.34	45.09	45.66	44.94
6.....	44.06	43.77	43.59	43.71	45.86	46.23	45.54	44.87	44.35	45.14	45.65	44.94
7.....	44.05	43.76	43.58	44.12	45.85	46.21	45.52	44.82	44.35	45.19	45.65	44.94
8.....	44.04	43.75	43.56	44.72	45.81	46.21	45.51	44.77	44.34	45.27	45.64	44.93
9.....	44.03	43.74	43.54	44.77	45.84	46.22	45.49	44.75	44.32	45.24	45.49	44.94
10.....	44.02	43.73	43.53	44.72	45.86	46.13	45.44	44.74	44.29	45.27	45.43	44.95
11.....	44.01	43.72	43.52	44.62	45.86	46.08	45.39	44.73	44.28	45.28	45.37	44.96
12.....	43.99	43.71	43.52	44.32	46.01	46.05	45.37	44.73	44.28	45.29	45.34	44.96
13.....	43.98	43.70	43.51	44.12	46.04	46.01	45.35	44.72	44.31	45.34	45.33	44.97
14.....	43.98	43.70	43.52	44.15	46.15	45.99	45.33	44.70	44.37	45.37	45.32	44.97
15.....	43.97	43.69	43.51	44.45	46.24	45.94	45.28	44.65	44.38	45.39	45.30	44.96
16.....	43.97	43.69	43.51	44.47	46.31	45.89	45.25	44.62	44.39	45.44	45.29	44.96
17.....	43.98	43.68	43.51	44.65	46.37	45.88	45.19	44.60	44.39	45.58	45.27	44.95
18.....	43.97	43.68	43.50	44.74	46.45	45.87	45.17	44.59	44.41	45.60	45.26	44.95
19.....	43.97	43.69	43.50	44.89	46.49	45.88	45.15	44.47	44.44	45.64	45.24	44.94
20.....	43.97	43.69	43.49	45.41	46.54	45.89	45.14	44.44	44.48	45.68	45.22	44.93
21.....	43.97	43.68	43.49	45.46	46.57	45.84	45.13	44.45	44.49	45.69	45.21	44.93
22.....	43.98	43.68	43.48	45.52	46.56	45.79	45.11	44.44	44.74	45.70	45.20	44.93
23.....	43.98	43.67	43.48	45.65	46.55	45.77	45.09	44.44	44.77	45.71	45.19	44.93
24.....	44.00	43.68	43.48	45.72	46.54	45.74	45.09	44.43	44.78	45.77	45.17	44.94
25.....	43.99	43.68	43.49	45.76	46.53	45.72	45.08	44.42	44.82	45.73	45.15	44.94
26.....	44.00	43.67	43.49	45.77	46.52	45.71	45.07	44.43	44.84	45.71	45.13	44.94
27.....	43.99	43.66	43.49	45.97	46.49	45.69	45.06	44.44	44.94	45.70	45.09	44.94
28.....	43.98	43.65	43.50	45.99	46.44	45.69	45.07	44.43	44.98	45.71	45.04	44.96
29.....	43.97	43.63	43.50	46.11	46.39	45.68	45.09	44.43	44.99	45.72	45.03	44.97
30.....	43.94	.....	43.51	45.98	46.35	45.67	45.04	44.45	45.01	45.70	45.02	44.99
31.....	43.89	.....	43.51	.....	46.33	.....	45.04	44.44	.....	45.71	.....	45.01
1925												
1.....	1145.09	1144.80	1144.65	1145.45	1146.39	1146.06	1147.22	1145.30	1144.46	1144.27	1144.00	1143.16
2.....	45.03	44.80	44.65	45.65	46.40	46.05	47.17	45.27	44.44	44.35	43.95	43.15
3.....	45.83	44.81	44.63	45.80	46.46	46.05	47.17	45.22	44.44	44.24	43.90	43.17
4.....	45.02	44.81	44.62	45.90	46.48	46.05	47.11	45.17	44.42	44.21	43.85	43.19
5.....	44.99	44.82	44.61	45.90	46.50	46.04	47.07	45.14	44.40	44.10	43.80	43.20
6.....	44.97	44.80	44.60	45.89	46.55	46.04	47.01	45.10	44.34	44.17	43.76	43.22
7.....	44.96	44.80	44.60	45.87	46.57	46.12	46.92	45.06	44.36	44.16	43.72	43.24
8.....	44.95	44.80	44.60	45.87	46.59	46.26	46.79	45.02	44.35	44.16	43.66	43.25
9.....	44.93	44.80	44.60	45.84	46.60	46.34	46.77	44.98	44.34	44.14	43.61	43.27
10.....	44.90	44.79	44.60	45.82	46.59	46.37	46.73	44.95	44.25	44.13	43.57	43.29
11.....	44.87	44.75	44.58	45.70	46.58	46.39	46.65	44.88	44.28	44.12	43.52	43.30
12.....	44.85	44.75	44.59	45.71	46.57	46.51	46.37	44.85	44.24	44.12	43.47	43.32
13.....	44.84	44.74	44.59	45.72	46.56	46.53	46.34	44.82	44.20	44.14	43.42	43.34
14.....	44.83	44.74	44.59	45.75	46.56	46.59	46.27	44.79	44.17	44.15	43.40	43.35
15.....	44.82	44.75	44.58	45.75	46.55	46.68	46.24	44.78	44.16	44.16	43.36	43.37
16.....	44.81	44.73	44.57	45.75	46.55	46.66	46.22	44.75	44.18	44.14	43.37	43.39
17.....	44.80	44.73	44.56	45.75	46.54	46.72	46.18	44.74	44.21	44.14	43.37	43.41
18.....	44.80	44.74	44.55	45.75	46.52	46.76	46.15	44.74	44.23	44.16	43.36	43.42
19.....	44.82	44.74	44.54	45.82	46.50	46.87	46.07	44.72	44.25	44.18	43.30	43.43
20.....	44.82	44.75	44.53	45.87	46.57	46.91	46.03	44.68	44.26	44.18	43.33	43.54
21.....	44.84	44.71	44.52	45.92	46.35	46.96	45.98	44.64	44.24	44.18	43.32	43.35
22.....	44.85	44.70	44.51	45.95	46.32	47.02	45.94	44.60	44.23	44.16	43.29	43.46
23.....	44.86	44.69	44.50	45.96	46.31	47.07	45.88	44.68	44.22	44.14	43.26	43.46
24.....	44.87	44.69	44.49	45.97	46.34	47.12	45.84	44.65	44.15	44.13	43.22	43.48
25.....	44.86	44.68	44.48	46.00	46.28	47.17	45.75	44.64	44.14	44.13	43.24	43.50
26.....	44.86	44.67	44.47	46.12	46.24	47.25	45.68	44.62	44.18	44.11	43.19	43.51
27.....	44.85	44.66	44.46	46.21	46.18	47.30	45.60	44.61	44.15	44.05	43.19	43.51
28.....	44.84	44.66	44.46	46.26	46.16	47.30	45.57	44.56	44.23	44.06	43.20	43.52
29.....	44.84	.....	44.52	46.31	46.15	47.28	45.52	44.50	44.26	44.04	43.23	43.53
30.....	44.84	.....	44.72	46.36	46.12	47.24	45.44	44.48	44.28	44.02	43.19	43.45
31.....	44.83	.....	45.32	.....	46.09	.....	45.36	44.47	.....	44.01	.....	43.56

RAINY LAKE INVESTIGATION

WATER LEVELS—SEINE RIVER—NEAR LA SEINE, ONT.—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G.S. of Canada Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1	1143.56	1143.68	1143.71	1143.81	1144.59	1146.33	1146.82	1147.05	1146.10	1146.70	1148.50	1147.30
2	43.45	43.70	43.72	43.82	44.59	46.30	46.81	46.97	46.10	46.80	48.50	47.17
3	43.57	43.69	43.73	43.83	44.58	46.28	46.81	46.93	46.10	46.90	48.40	47.14
4	43.58	43.67	43.73	43.84	44.57	46.24	46.81	46.88	46.10	47.00	48.40	47.11
5	43.60	43.66	43.74	43.85	44.56	46.18	46.81	46.88	46.10	47.10	48.40	47.08
6	43.61	43.65	43.75	43.83	44.57	46.07	47.26	46.97	46.10	47.30	48.40	47.85
7	43.63	43.67	43.74	43.83	44.57	46.05	47.34	47.05	46.10	47.30	48.40	46.92
8	43.64	43.68	43.73	43.84	44.56	46.04	47.43	46.97	46.10	47.30	48.30	46.90
9	43.66	43.69	43.72	43.84	44.58	45.98	47.55	46.97	46.20	47.30	48.30	46.88
10	43.66	43.67	43.71	43.85	44.62	45.94	47.63	46.84	46.20	47.40	48.20	46.86
11	43.67	43.68	43.70	43.86	44.74	45.84	47.72	46.80	46.20	47.50	48.20	46.84
12	43.66	43.69	43.71	43.88	44.77	45.78	47.72	46.76	46.20	47.60	48.20	46.82
13	43.55	43.70	43.71	43.89	44.85	45.55	47.63	46.72	46.15	47.70	48.20	46.80
14	43.66	43.70	43.72	43.91	44.95	45.64	47.63	46.72	46.10	47.80	48.20	46.80
15	43.67	43.69	43.73	43.93	44.98	45.36	47.63	46.72	46.10	48.00	48.20	46.66
16	43.68	43.68	43.74	43.94	45.09	45.33	47.59	46.72	46.10	48.10	48.20	46.64
17	43.68	43.69	43.75	43.96	45.10	45.25	47.55	46.59	46.10	48.15	48.20	46.62
18	43.69	43.70	43.76	44.00	45.31	45.18	47.47	46.55	46.10	48.20	48.20	46.60
19	43.70	43.71	43.77	44.02	45.39	45.12	47.47	46.45	46.10	48.20	48.20	46.58
20	43.71	43.71	43.77	44.28	45.56	45.20	47.38	46.40	46.20	48.20	48.20	46.56
21	43.73	43.70	43.78	44.11	45.83	46.64	47.38	46.40	46.20	48.20	48.00	46.54
22	43.71	43.69	43.79	44.14	45.86	46.46	47.30	46.35	46.25	48.20	47.85	46.52
23	43.70	43.69	43.79	44.18	46.14	46.48	47.22	46.30	46.25	48.20	47.65	46.50
24	43.69	43.68	43.80	44.20	46.09	46.63	47.22	46.30	46.25	48.25	47.55	46.48
25	43.70	43.67	43.79	44.67	46.24	46.49	47.22	46.25	46.25	48.30	47.50	46.46
26	43.71	43.68	43.78	44.65	46.35	46.52	47.13	46.20	46.40	48.30	47.40	46.44
27	43.70	43.69	43.78	44.63	46.34	46.95	47.13	46.20	46.40	48.30	47.30	46.32
28	43.69	43.70	43.74	44.62	46.29	46.96	47.13	46.20	46.50	48.40	47.30	46.30
29	43.67	43.70	43.74	44.59	46.26	46.93	47.13	46.10	46.50	48.50	47.30	46.18
30	43.66	43.70	43.80	44.57	46.23	46.85	47.05	46.10	46.60	48.50	47.30	46.17
31	43.67	43.70	43.82	44.57	46.19	46.19	46.10	46.10	46.60	48.50	47.30	46.16
1927												
1	1146.29	1145.34	1144.84	1144.53	1147.05							
2	46.27	45.30	44.83	44.54	47.01							
3	46.25	45.28	44.80	44.55	47.03							
4	46.23	45.28	44.85	44.58	47.03							
5	46.21	45.27	44.75	45.25	46.98							
6	46.09	45.25	44.76	45.25	46.86							
7	46.07	45.23	44.76	45.45	46.83							
8	46.05	45.21	44.72	45.58	46.68							
9	46.03	45.19	44.63	45.72	46.65							
10	46.01	45.17	44.64	45.75	46.63							
11	45.99	45.15	44.59	45.76	46.57							
12	45.86	45.13	44.52	45.72	46.52							
13	45.83	45.08	44.53	45.75	46.46							
14	45.80	45.04	44.51	45.75	46.43							
15	45.68	45.03	44.51	45.75	46.43							
16	45.67	44.98	44.51	46.19	46.41							
17	45.58	44.93	44.53	46.63	46.39							
18	45.58	44.93	44.55	47.07	46.36							
19	45.55	44.93	44.55	47.53	46.31							
20	45.51	44.93	44.55	47.53	46.24							
21	45.48	44.93	44.50	47.63	46.22							
22	45.45	44.93	44.50	47.63	Station	discontinued.						
23	45.46	44.93	44.50	47.63								
24	45.46	44.93	44.50	47.58								
25	45.46	44.93	44.50	47.03								
26	45.46	44.93	44.50	47.18								
27	45.46	44.91	44.50	47.13								
28	45.48	44.90	44.50	47.12								
29	45.48	44.90	44.51	47.13								
30	45.44	44.90	44.53	47.18								
31	45.41	44.90	44.53	47.18								

Note.—During construction work on the river the above gauge heights are affected by backwater.



## REPORT OF ENGINEERS

## DAILY DISCHARGE IN SECOND-FEET—SEINE RIVER—NEAR LA SEINE, ONT.

## RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1										1460	1400	1070
2										1460	1385	1072
3										1442	1400	1074
4										1442	1392	1077
5										1442	1385	1080
6										1442	1385	1080
7										1442	1385	1080
8										1425	1385	1075
9										1425	1385	1070
10										1442	1370	1069
11										1503	1140	1045
12										1503	1135	1010
13										1520	1130	990
14										1520	1125	970
15										1503	1120	955
16										1485	1115	940
17										1469	1110	932
18										1450	1105	920
19										1415	1102	910
20										1390	1098	898
21										1372	1095	890
22									1675	1362	1090	880
23									1625	1415	1087	870
24									1616	1425	1085	860
25									1625	1425	1083	850
26									1562	1407	1080	840
27									1537	1390	1077	834
28									1530	1372	1074	827
29									1485	1352	1070	820
30									1460	1345	1070	813
31										1337		807
1915												
1	800	604	555	460						1140	1200	
2	792	600	532	458						1150	1200	
3	782	597	530	457						1150	1200	
4	774	595	527	458						1160	1910	
5	766	594	523	459						1150	1910	
6	758	592	520	459						1160	1910	
7	751	588	517	459						1190	1940	
8	744	586	514	459						1220	1960	
9	736	583	511	459						1240	1960	
10	727	582	509	459						1230	2000	
11	720	579	507	459						1280		
12	714	577	505	479						1290		
13	707	576	503	500						1330		
14	700	575	500	522						1350		
15	694	572	495	545						1370		
16	687	572	494	569						1390		
17	680	571	494	594						1400		
18	673	570	489	620						1450		
19	666	572	485	647						1460		
20	660	571	482	675						1510		
21	652	572	478	704						1540		
22	648	571	477	734						1580		
23	642	567	476	765						1620		
24	635	560	474	797						1660		
25	630	549	472	830						1750		
26	625	543	471	864						1770		
27	620	540	470	899						1790		
28	615	537	469	935						1820		
29	611		469	972						1880		
30	610		464	1010						1890		
31	606		462							1910		

Relation of gauge height to discharge affected by ice from Nov. 11, 1914, to April 19, 1915, inclusive, daily discharges estimated from measurements, etc.

RAINY LAKE INVESTIGATION

DAILY DISCHARGES IN SECOND-FEET—SEINE RIVER—NEAR LA SEINE, ONT.—Continued

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1					4320	8830	4120	2260	1430	1870	1550	820
2					4400	8660	4040	2190	1420	1870	1550	815
3					4510	8230	4040	2160	1450	1870	1550	810
4					4670	7980	3940	2110	1480	1860	1550	810
5					4990	7820	3830	2030	1480	1790	1500	810
6					5110	7300	3800	2070	1480	1740	1530	795
7					5440	7040	3730	2030	1480	1740	1560	795
8					5910	6730	3680	1960	1480	1740	1600	785
9					6350	6730	3600	1910	1470	1740	1620	785
10					6730	6530	3540	1900	1450	1740	1560	785
11					6730	6350	3490	1830	1430	1740	1530	775
12					6730	6310	3420	1780	1420	1720	1340	775
13					7100	6310	3370	1740	1380	1700	1230	775
14					7260	6050	3320	1730	1400	1690	1100	765
15					7260	5910	3220	1680	1420	1680	1040	765
16					7590	5840	3180	1680	1420	1680	1020	760
17					7660	5630	3110	1730	1420	1660	1020	755
18					7820	5440	3040	1680	1420	1660	1020	750
19				2280	7940	5310	2940	1700	1420	1680	995	740
20				2820	8010	5080	2860	1650	1420	1680	995	735
21				3090	8150	4790	2780	1650	1600	1680	995	730
22				3180	8150	4730	2740	1710	1730	1680	995	720
23				3560	8310	4670	2670	1710	1790	1680	995	720
24				3670	8190	4670	2610	1680	2000	1630	995	720
25				3720	8150	4610	2590	1670	2070	1560	985	720
26				3780	8050	4490	2530	1650	2070	1550	985	720
27				3930	7980	4380	2510	1610	2070	1550	975	720
28				4040	7980	4460	2440	1580	2000	1550	975	720
29				4150	7980	4270	2360	1520	2000	1530	975	720
30				4200	7980	4200	2320	1500	1950	1530	975	715
31					8150		2280	1480		1550		710
1917												
1	680	525	303	337	725	2180	1980	1260	1280			
2	680	491	303	337	745	2280	1980	1260	1260			
3	689	478	303	337	760	2330	1930	1230	1230			
4	680	478	303	427	760	2390	1900	1260	1220			
5	680	464	303	427	760	2410	1860	1250	1200			
6	670	464	303	427	800	2480	1830	1250	1180			
7	670	400	303	427	825	2480	1830	1230	1160			
8	670	388	303	427	825	2410	1660	1230	1130			
9	665	388	303	427	845	2390	1660	1200	1130			
10	660	382	303	427	845	2380	1630	1200	1110			
11	655	382	293	427	845	2340	1600	1200	1080			
12	640	376	293	427	845	2280	1600	1200	1080			
13	630	376	293	427	885	2210	1600	1170	970			
14	630	376	293	427	925	2160	1600	1170	945			
15	620	370	293	418	945	2140	1590	1140	925			
16	620	364	293	418	975	2090	1560	1140	925			
17	620	364	293	439	1020	2060	1560	1140	925			
18	605	364	293	451	1160	2010	1520	1140	905			
19	605	364	293	451	1210	1990	1500	1110	905			
20	595	364	283	464	1260	2060	1470	1110	905			
21	595	364	283	464	1300	2120	1440	1090	925			
22	585	349	283	491	1370	2120	1400	1090	925			
23	585	349	283	525	1400	2040	1400	1160	925			
24	580	337	283	555	1430	1980	1380	1230	905			
25	580	325	283	570	1490	1980	1380	1240	905			
26	575	325	283	570	1500	1970	1380	1230	925			
27	570	325	283	570	1560	1910	1350	1230	925			
28	555	325	283	570	1630	1980	1310	1230	945			
29	545		283	655	1780	1980	1310	1260	945			
30	540		283	655	1920	1980	1310	1270	945			
31	530		283		2050		1280	1280				

DAILY DISCHARGES IN SECOND-FEET—SEINE RIVER—NEAR LA SEINE, ONT.—Continued  
 RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1											800	
2											820	
3											820	
4											820	
5												
6												
7										863		
8										863		
9										800		
10										820		
11										820		
12										820		
13										820		
14										820		
15										820		
16										820		
17										820		
18										820		
19										820		
20										820		
21										820		
22										820		
23										820		
24										820		
25										820		
26										820		
27										820		
28										820		
29										820		
30										820		
31										800		
1921												
1		720	668	668	2470	3680	2440	1300	1090	1170	1170	939
2		720	668	668	2760	3800	2390	1300	1090	1200	1170	939
3		720	668	780	2810	3800	2280	1300	1090	1200	1170	930
4		720	668	863	2910	3800	2230	1300	1090	1200	1150	916
5		703	668	1000	3020	3800	2180	1270	1110	1200	1140	916
6			703	668	1290	3740	2130	1240	1110	1200	1130	916
7	780	703	668	1680	3120	3680	2080	1240	1090	1210	1110	903
8	780	703	668	2260	3180	3620	2030	1240	1060	1210	1110	903
9	780	720	668	2810	3230	3570	1980	1200	1140	1230	1090	898
10	780	720	668	2700	3280	3510	1880	1170	1170	1240	1080	894
11	780	740	668	2490	3340	3450	1830	1140	1240	1240	1060	903
12	780	740	668	2390	3450	3390	1830	1140	1200	1240	1060	903
13	780	740	668	2280	3510	3390	1880	1090	1200	1240	1040	894
14	780	720	668	2180	3620	3390	1830	1090	1200	1240	1040	898
15	780	720	668	2180	3680	3340	1790	1090	1170	1240	1040	872
16	780	703	668	2120	3740	3340	1740	1090	1170	1230	1040	872
17	760	703	668	2130	3800	3280	1690	1100	1170	1240	1030	898
18	760	668	668	2080	3850	3230	1650	1090	1200	1220	1010	871
19	760	668	668	2030	3850	3230	1610	1110	1140	1240	1010	876
20	740	668	668	1980	3850	3180	1560	1110	1140	1270	975	871
21	740	668	668	1880	3800	3120	1520	1110	1170	1250	985	871
22	740	668	668	1790	3740	3020	1480	1110	1170	1240	985	871
23	740	668	668	1690	3740	2910	1440	1110	1170	1240	985	871
24	740	668	668	1610	3680	2810	1370	1110	1200	1240	985	871
25	740	668	668	1790	3680	2700	1330	1110	1200	1240	975	828
26	740	668	668	1880	3620	2600	1300	1110	1200	1220	975	828
27	740	668	668	1690	3620	2600	1330	1110	1200	1220	961	828
28	740	668	668	1980	3620	2550	1330	1110	1200	1200	961	828
29	740		668	1880	3570	2550	1300	1110	1170	1200	961	828
30	720		668	1610	3620	2490	1300	1110	1170	1200	948	828
31	720		668		3620		1330	1110		1200		828.

RAINY LAKE INVESTIGATION

DAILY DISCHARGE IN SECOND-FEET—SEINE RIVER—NEAR LA SEINE, ONT.—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	828	828	764	629	2160	3580	2310	1470	1190	800	682	636
2	828	840	776	636	2140	3530	2290	1470	1190	800	720	643
3	828	840	776	643	2270	3260	2260	1450	1180	800	720	647
4	828	828	756	647	2370	3310	2240	1420	1150	792	706	647
5	788	808	756	682	2380	2940	2210	1390	1130	784	706	657
6	788	788	736	796	2580	2730	2210	1390	1130	760	728	657
7	828	816	720	880	2690	2520	2200	1390	1100	780	788	650
8	828	748	706	1020	2790	2210	2140	1390	1100	780	792	661
9	828	748	706	1310	2900	2210	2160	1380	1090	760	740	664
10	808	748	699	1380	3110	2280	2070	1380	1080	780	720	664
11	816	748	664	1460	3330	2270	2010	1390	1050	792	692	665
12	816	748	664	1540	3550	2300	1980	1380	1030	792	692	668
13	808	748	664	1460	3600	2260	1940	1390	1060	720	692	668
14	808	748	664	1250	3660	2730	1910	1390	1060	740	685	685
15	788	748	664	1380	3710	2730	1870	1390	1050	744	692	685
16	788	768	653	1900	3770	2780	1840	1380	1040	744	703	685
17	808	748	653	2000	3820	2770	1810	1380	1020	744	703	685
18	816	748	629	2100	3830	2730	1760	1360	1010	752	710	692
19	816	748	629	2100	3950	2710	1720	1340	985	713	696	696
20	828	768	636	2000	4000	2660	1650	.....	975	710	650	706
21	828	748	629	1920	4030	2630	1580	1320	961	713	650	720
22	858	748	629	1930	3990	2580	1560	1330	944	713	668	740
23	858	748	629	1870	3950	2520	1630	1340	912	703	668	744
24	871	764	625	2070	3950	2490	1600	1360	885	706	671	752
25	898	764	629	2160	3910	2450	1590	1330	862	710	682	756
26	898	760	629	2070	3880	2420	1570	1320	849	689	615	744
27	871	764	629	2100	3830	2520	1540	1290	840	689	615	685
28	871	760	629	2070	3830	2450	1530	1260	812	657	615	685
29	828	.....	636	2100	3710	2390	1510	1240	820	657	622	692
30	840	.....	632	2070	3660	2340	1490	1220	800	668	622	692
31	828	.....	629	.....	3600	.....	1470	1200	.....	668	.....	685
1923												
1	685	702	667	800	2370	2470	1250	1250	1270	881	649	572
2	692	702	643	812	2470	2420	1220	1320	1270	858	642	572
3	692	702	615	800	2580	2370	1160	1320	1250	845	635	572
4	692	713	629	812	2630	2260	1130	1290	1250	836	624	575
5	685	716	626	816	2680	2210	1110	1290	1200	816	624	572
6	692	720	629	820	2730	2150	1090	1330	1200	804	621	572
7	692	740	639	824	2810	2080	1120	1310	1190	796	617	575
8	685	760	636	828	2890	2010	1130	1320	1180	792	610	572
9	692	760	629	836	3050	1940	1160	1310	1150	784	607	568
10	699	780	615	836	3100	1870	1140	1320	1140	776	603	565
11	702	780	626	836	3120	1810	1290	1410	1130	772	600	568
12	695	780	636	760	3160	1860	1390	1420	1130	764	593	565
13	692	780	640	760	3210	1700	1430	1430	1090	756	593	565
14	685	760	646	760	3260	1630	1330	1510	1070	748	589	565
15	685	784	650	788	3260	1590	1260	1500	1050	744	589	565
16	692	776	650	792	3260	1520	1250	1460	1030	736	593	565
17	692	776	657	796	3260	1500	1220	1430	1040	732	589	561
18	692	792	681	796	3260	1430	1200	1430	1050	728	589	561
19	685	720	685	800	3260	1360	1160	1420	1050	720	589	561
20	692	740	720	1550	3320	1350	1150	1390	1040	712	586	561
21	699	728	756	1940	3350	1370	1150	1350	1030	704	582	565
22	702	748	760	2940	3180	1530	1120	1350	1020	696	582	561
23	702	685	776	2530	3210	1710	1180	1330	1020	692	579	572
24	699	685	760	2260	3050	1630	1160	1290	1000	688	579	575
25	670	692	760	1960	3100	1530	1160	1280	985	680	582	579
26	702	699	776	2370	2950	1460	1220	1270	975	677	586	582
27	709	650	784	2420	2840	1440	1230	1250	953	670	582	586
28	716	657	796	2420	2890	1360	1250	1250	939	663	579	586
29	709	.....	796	2440	2740	1330	1290	1250	930	659	575	586
30	709	.....	800	2470	2810	1310	1310	1250	908	659	572	586
31	702	.....	800	.....	2580	.....	1330	1260	.....	656	.....	582

## REPORT OF ENGINEERS

DAILY DISCHARGE IN SECOND-FEET—SEINE RIVER—NEAR LA SEINE, ONT.—Continued  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	593	526	451	421	1630	1900	1350	990	732	990	1380	975
2	593	519	448	424	1610	1880	1330	975	728	990	1380	971
3	596	512	445	427	1580	1850	1310	966	716	995	1370	966
4	593	505	445	430	1560	1810	1300	953	708	1010	1360	957
5	593	499	442	437	1550	1870	1290	935	696	1020	1360	948
6	506	496	442	478	1510	1840	1280	917	700	1050	1350	948
7	593	493	439	617	1500	1820	1270	894	700	1070	1350	948
8	589	490	433	849	1470	1829	1260	872	696	1080	1350	944
9	586	487	427	872	1500	1830	1250	863	688	1100	1250	948
10	582	484	424	849	1510	1750	1220	858	677	1110	1210	952
11	579	481	421	808	1510	1700	1180	854	673	1120	1170	957
12	572	478	421	688	1640	1680	1170	854	673	1130	1150	957
13	568	475	418	617	1670	1640	1160	849	684	1150	1150	962
14	568	475	421	628	1770	1620	1150	840	708	1170	1140	962
15	565	472	418	740	1850	1580	1120	820	712	1180	1130	957
16	565	472	418	748	1920	1540	1100	808	716	1220	1120	957
17	568	469	418	820	1980	1530	1070	800	716	1310	1110	952
18	565	469	415	858	2060	1520	1060	796	724	1320	1110	952
19	565	472	415	926	2100	1530	1050	748	736	1350	1100	948
20	565	472	413	1200	2150	1540	1050	736	752	1380	1090	943
21	565	469	413	1230	2180	1590	1040	740	756	1380	1080	943
22	568	469	410	1270	2170	1460	1030	736	858	1390	1080	943
23	568	466	410	1360	2160	1440	1020	736	872	1400	1070	943
24	575	469	410	1410	2150	1420	1020	732	876	1440	1060	948
25	572	469	413	1440	2140	1410	1020	728	894	1410	1050	948
26	575	466	413	1440	2130	1400	1010	732	903	1400	1040	948
27	572	463	413	1600	2100	1380	1010	736	948	1390	1020	948
28	568	460	415	1620	2050	1380	1010	732	966	1400	995	945
29	565	454	415	1730	2000	1380	1020	732	971	1410	990	945
30	554	418	418	1610	1960	1370	995	740	980	1390	985	945
31	537	418	418	1940	1940	1940	995	736	1400	1400	985	945
1925												
1	945	885	820	1220	2000	1680	2860	1130	744	670	575	303
2	945	885	820	1361	2010	1680	2810	1110	736	663	558	300
3	945	890	812	1460	2070	1680	2780	1090	736	659	540	306
4	945	890	808	1550	2090	1680	2750	1060	728	649	523	311
5	945	894	804	1550	2110	1670	2700	1050	720	610	505	314
6	945	885	800	1540	2160	1670	2640	1030	696	638	491	320
7	945	885	800	1520	2180	1740	2550	1010	704	631	477	326
8	945	885	800	1510	2200	1870	2410	985	700	631	457	329
9	943	885	800	1500	2210	1950	2390	966	696	624	441	335
10	930	881	800	1480	2200	1980	2350	952	662	621	428	341
11	917	862	796	1390	2190	2000	2260	921	673	617	412	344
12	907	858	796	1400	2180	2120	1980	907	659	617	396	350
13	903	844	796	1410	1270	2140	1950	894	645	624	380	356
14	899	832	796	1430	2170	2200	1880	881	635	628	374	359
15	894	828	792	1430	2160	2230	1850	876	631	631	362	365
16	890	832	788	1430	2160	2270	1830	862	638	624	365	371
17	885	824	784	1430	2150	2340	1800	858	649	624	365	377
18	885	836	780	1430	2130	2380	1770	858	655	631	362	380
19	894	836	776	1480	2110	2490	1690	849	662	638	344	384
20	894	840	772	1520	1980	2540	1660	832	666	638	353	419
21	903	840	768	1560	1060	2590	1610	816	659	638	350	359
22	907	836	764	1590	1930	2650	1580	800	655	631	341	393
23	912	832	760	1600	1920	2700	1530	832	652	624	332	393
24	917	832	756	1600	1950	2760	1500	820	627	621	320	400
25	912	828	752	1630	1890	2810	1430	816	624	621	326	406
26	912	828	748	1740	1850	2890	1380	808	638	614	311	409
27	907	824	744	1820	1800	2950	1320	804	627	593	311	409
28	903	824	744	1870	1780	2950	1300	784	655	596	314	412
29	903	810	768	1920	1770	2920	1270	760	666	589	323	416
30	903	810	849	1970	1740	2880	1220	752	673	582	311	390
31	890	810	1140	1710	1710	1710	1170	748	579	579	311	425

NOTE.—Ice conditions from Nov. 15, 1925, to April 17, 1926, inclusive.

DAILY DISCHARGE IN SECOND-FEET—SEINE RIVER—NEAR LA SEINE, ONT.—Concluded

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1	425	464	474	509	796	1940	2440	2680	1720			
2	390	470	477	512	796	1910	2430	2600	1720			
3	428	467	481	516	792	1890	2500	2560	1720			
4	432	460	481	519	788	1850	2620	2500	1720			
5	438	457	484	523	784	1800	2760	2500	1720			
6	441	454	488	516	788	1690	2900	2600	1720			
7	448	460	484	516	788	1680	2990	2680	1720			
8	451	464	481	519	784	1670	3080	2600	1820			
9	457	467	477	519	792	1610	3210	2600	1820			
10	457	460	474	523	802	1580	3290	2460	1820			
11	460	464	470	526	858	1500	3390	2420	1820			
12	457	467	474	533	872	1450	3390	2380	1820			
13	422	470	474	537	908	1290	3290	2340	1770			
14	457	470	477	544	953	1350	3290	2340	1720			
15	460	467	481	551	966	1170	3290	2340	1720			
16	464	464	484	554	1020	1150	3250	2340	1720			
17	464	467	488	561	1030	1100	3210	2200	1720			
18	467	470	491	575	1140	1070	3120	2160	1720			
19	470	474	495	582	1180	1640	3120	2060	1720			
20	474	474	495	603	1290	1080	3030	2010	1820			
21	481	470	498	614	1490	2250	3030	2010	1820			
22	474	467	502	624	1510	2070	2950	1960	1860			
23	470	467	502	638	1760	2090	2860	1910	1860			
24	467	464	505	645	1710	2240	2860	1910	1860			
25	470	460	502	828	1850	2100	2860	1860	1860			
26	474	464	498	820	1960	2130	2770	1820	2010			
27	470	467	498	812	1950	2580	2770	1820	2010			
28	467	470	502	808	1900	2590	2770	1820	2110			
29	460		502	796	1870	2560	2770	1720	2110			
30	457		505	788	1840	2470	2680	1720	2210			
31	460		512		1810			1720				

Due to construction work on the Seine River there are no daily discharge records since Sept. 30, 1926.

SUMMARY OF MEAN MONTHLY DISCHARGE IN SECOND-FEET OF SEINE RIVER  
NEAR LA SEINE, ONT.

Month	1914	1915	1916	1917	1920	1921	1922	1923	1924	1925	1926	1927
Jan.		692		619		761 <sup>e</sup>	830	696	575	915	455	
Feb.		575		388		698	770	733	480	853	466	
Mar.		495		292		668	672	693	423	798	489	
April		624		466		1810	1540	1350	952	1550	604	
May			6950	1140		3450	3380	2980	1940	2030	1220	
June			5980	2170		3250	2640	1740	1610	2280	1760	
July			3160	1570		1740	1860	1210	1130	1940	2870	
Aug.			1790	1200		1160	1360	1340	820	899	2210	
Sept.			1600	1030		1160	1010	1050	772	670	1830	
Oct.	1430	1450	1690		822 <sup>e</sup>	1220	737	743	1230	624		
Nov.	1190		1220		810 <sup>e</sup>	1040	689	598	1170	398		
Dec.	955		759		791 <sup>e</sup>	880	686	571	952	365		

e. Estimated.

## TURTLE RIVER—NEAR MINE CENTRE, ONT.

Records of Dominion Water Power and Reclamation Service.

*Location.*—On pier of Canadian National Railway saw-mill, on east shore of Little Turtle lake, Mine Centre.

*Gauge.*—Staff, read daily.

*Drainage Area.*—1,760 square miles.

*Discharge Measurements.*—From boat.

*Records Available.*—August, 1914, to December, 1927.

*Extremes of Stage Recorded.*—Maximum, July 15, 1927 (g.h. 1139.29), 8640 sec. ft.; Minimum—March 17, 1918 (g.h. 1130.86), 50 sec. ft.

*Datum.*—Geodetic Survey of Canada, B.M. No. 42 E. Elevation 1198.44.

DISCHARGE MEASUREMENTS—TURTLE RIVER—NEAR MINE CENTRE  
RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height	Dis-charge	Remarks
		Feet	Sq. ft.	Ft. per sec	Feet	Sec.-ft.	
1914							
Aug. 11	J. R. Taylor	168	2947	0.29	1134.36	850	
Sept. 23	"	168	2948	0.407	34.32	1202	
Oct. 12	"	169	3033	0.41	34.82	1250	
Nov. 5	"	168	2964	0.39	34.47	1161	
Dec. 19	"	161	2518	0.09	32.28	224	(a)
1915							
Jan. 20	"	156	2446	0.08	31.95	184	(a)
Feb. 28	"	156	2346	0.08	31.93	184	(a)
Mar. 2	"	119	894	0.23	31.93	209	(b)
30	"	118	892	0.27	31.90	244	(b)
April 7	"	120	904	0.28	32.02	248	(b)
May 20	"	169	2966	0.43	34.56	1283	
June 26	"	173	3303	0.78	36.59	2592	(c)
July 22	"	172	3205	0.69	36.09	2235	
29	"	172	3237	0.72	36.06	2322	
Aug. 7	"	170	3117	0.56	35.24	1747	
26	"	166	2897	0.38	34.07	1107	
Sept. 4	"	166	2848	0.32	33.78	914	
4	"	166	2848	0.32	33.78	895	
5	"	165	2829	0.31	33.66	866	
5	"	165	2829	0.32	33.66	912	
6	"	165	2815	0.30	33.61	838	
6	"	165	2815	0.30	33.55	850	
30	"	165	2782	0.22	33.34	604	
30	"	165	2782	0.22	33.34	616	
1916							
May 24	"	183	3668	1.40	38.49	5143	
24	"	183	3668	1.41	38.49	5187	
July 13	"	177	3510	0.88	37.22	3089	River almost filled with logs below rapids.
1917							
June 7	"	168	2915	0.39	34.14	1137	

(a) Ice measurement; river partly covered with ice below section; small log jam in Otter Falls.

(b) Measurements made 70 feet below regular section.

(c) Lumber companies driving on Little Turtle Lake and Turtle River; jam of logs in centre of river 70 feet below section; Otter Falls clear of logs.

NOTE.—To reduce to Sea-level Datum subtract 1.40 feet.

## DISCHARGE RATING TABLE—TURTLE RIVER—NEAR MINE CENTRE, ONT.

THIS TABLE TAKEN FROM O.H.E.P.C. RECORDS TO OBTAIN DISCHARGE FOR PERIOD 1914 TO 1919 INCLUSIVE

Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
89.00			91.00	560	38	93.00	1510	59	95.00	3091	108
89.10			91.10	598	39	93.10	1569	61	95.10	3199	111
89.20			91.20	637	40	93.20	1630	62	95.20	3310	114
89.30			91.30	677	41	93.30	1692	64	95.30	3424	116
89.40			91.40	718	42	93.40	1756	65	95.40	3540	119
89.50	85	27	91.50	760	43	93.50	1821	67	95.50	3659	121
89.60	112	28	91.60	803	44	93.60	1888	69	95.60	3780	124
89.70	140	28	91.70	847	45	93.70	1957	71	95.70	3904	126
89.80	168	28	91.80	892	46	93.80	2028	73	95.80	4030	129
89.90	196	29	91.90	938	47	93.90	2101	75	95.90	4159	131

RAINY LAKE INVESTIGATION

DISCHARGE RATING TABLE—TURTLE RIVER—NEAR MINE CENTRE, ONT.—*Concluded*  
THIS TABLE TAKEN FROM O.H.E.P.C. RECORDS TO OBTAIN DISCHARGE FOR PERIOD 1914 TO 1919 INCLUSIVE

Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
90-00	225		92-00	985		94-00	2176		96-00	4290	
90-10	254	29	92-10	1033	48	94-10	2254	78	96-10	4424	134
90-20	284	30	92-20	1082	49	94-20	2335	81	96-20	4560	136
90-30	315	31	92-30	1132	50	94-30	2419	84	96-30	4699	139
90-40	347	32	92-40	1182	51	94-40	2506	87	96-40	4842	143
90-50	380	33	92-50	1235	52	94-50	2596	90	96-50	4997	155
90-60	414	34	92-60	1288	53	94-60	2689	93	96-60	5165	168
90-70	449	35	92-70	1342	54	94-70	2785	96	96-70	5340	175
90-80	485	36	92-80	1397	55	94-80	2884	99	96-80	5522	182
90-90	522	37	92-90	1453	56	94-90	2986	102	96-90	5708	186
		38			57			105			192

NOTE.—Add 1040.49 to reduce to Sea-level Datum.

DISCHARGE MEASUREMENTS—TURTLE RIVER—NEAR MINE CENTRE, ONT.  
RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE  
[Elevations refer to G. S. of Canada Datum]

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height	Dis-charge	Remarks
		Feet	Sq. ft.	Ft.persec.	Feet	Sec.-ft.	
1920							
Mar. 18	C. C. Galloway	253	4050	0-11	1131-48	446	Ice cover.
July 12	C. A. Hansen	256	4390	0-27	33-01	1190	
12	"	256	4390	0-31	33-01	1360	
Aug. 25	"	165	2620	0-25	31-57	659	
25	"	165	2620	0-25	31-57	655	
Oct. 5	F. S. Smith	160	2540	0-17	31-01	428	
5	"	160	2520	0-15	31-01	386	
1921							
Jan. 27	C. O. Allen	151	2090	0-17	30-78	352	Ice conditions.
27	"	151	2090	0-17	30-78	360	"
May 17	"	131	1250	2-03	34-67	2530	
17	"	131	1250	1-98	34-67	2470	
July 15	W. H. Wallace	131	955	1-06	32-52	1010	
Aug. 2	C. O. Allen	118	940	1-00	32-47	934	
2	"	118	940	0-97	32-47	907	
27	"	116	880	0-80	31-98	710	
27	"	116	880	0-80	31-98	706	
Sept. 6	"	116	860	0-75	31-83	648	
6	"	116	860	0-76	31-83	654	
26	"	118	940	1-02	32-50	957	
26	"	118	940	1-03	32-50	972	
Oct. 5	"	117	930	0-95	32-41	896	
5	"	117	930	0-97	32-41	900	
Nov. 3	"	118	897	0-80	32-09	720	
3	"	118	897	0-81	32-09	729	
15	"	117	874	0-79	31-89	693	
Dec. 11	"	114	842	0-72	31-66	605	
21	"	121	824	0-70	31-64	578	
1922							
Jan. 31	"	152	2200	0-22	31-35	489	Ice conditions
31	"	152	2200	0-22	31-35	474	"
Feb. 25	"	147	2130	0-22	31-33	464	"
25	"	147	2130	0-23	31-33	493	"
Mar. 9	"	145	2100	0-23	31-25	482	"
9	"	145	2100	0-21	31-25	456	"
April 22	"	133	1320	2-40	35-37	3160	
May 11	"	134	1360	2-57	35-72	3480	
11	"	134	1360	2-56	35-72	3480	
25	"	131	1280	2-22	35-06	2830	
25	"	131	1280	2-24	35-06	2850	
June 15	"	127	1060	1-42	33-40	1500	
15	"	127	1060	1-38	33-40	1460	
July 22	"	116	916	0-96	32-35	879	
Sept. 1	"	117	880	0-80	31-93	703	
Oct. 6	"	115	832	0-67	31-58	554	
29	"	114	776	0-56	31-11	437	
Nov. 10	"	116	843	0-72	31-70	608	
Dec. 7	"	114	851	0-72	31-75	610	
20	"	111	821	0-70	31-63	571	



DISCHARGE MEASUREMENTS—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Concluded

RECORDS OF DOMINION WATER AND POWER RECLAMATION SERVICE

[Elevations refer to G. S. of Canada Datum]

Date	Hydrographer	Width	Area of section	Mean velocity	Gauge height	Dis-charge	Remarks
		Feet	Sq. ft.	Ft.persec.	Feet	Sec.-ft.	
1923							
Jan. 10	C. O. Allen	155	2250	0-24	31-61	547	Ice conditions.
Jan. 27	"	150	2210	0-24	31-61	528	"
Mar. 19	"	145	2040	0-25	31-41	513	"
April 26	"	138	1440	2-89	36-30	4150	
April 27	"	140	1470	2-94	36-46	4320	
June 14	"	125	1010	1-19	32-98	1200	
Aug. 23	"	122	950	1-00	32-48	945	
Oct. 27	"	116	838	0-71	31-66	594	
1924							
Jan. 22	"	108	719	0-50	30-88	360	Ice conditions.
Mar. 13	"	109	722	0-47	30-77	336	"
May 15	"	128	1080	1-55	33-60	1670	
June 12	"	128	1030	1-35	33-14	1390	
1925							
Feb. 15	"	106	701	0-49	30-76	343	Ice conditions.
Mar. 26	"	108	712	0-49	30-83	350	"
April 16	"	132	1170	1-79	34-27	2090	
April 29	"	134	1250	2-07	34-86	2590	
June 9	"	126	1060	1-35	33-35	1420	
Nov. 13	"	116	828	0-68	31-60	562	
Dec. 20	"	110	758	0-58	31-17	441	Ice conditions.
1926							
Feb. 1	"	108	717	0-51	30-88	363	"
Feb. 19	"	107	702	0-49	30-85	345	"
Mar. 20	"	105	701	0-53	30-83	369	"
1927							
Mar. 3	"	205	3880	0-17	31-82	650	"

DISCHARGE RATING TABLE—TURTLE RIVER—NEAR MINE CENTRE, ONT.

COMPILED FROM RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION AND DOMINION WATER POWER AND RECLAMATION SERVICE

Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference	Gauge height	Dis-charge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1130-00			1132-00	725	40	1134-00	1915	80	1136-00	3810	120	1138-00	6480	160
30-10			32-10	765	40	34-10	1995	80	36-10	3930	120	38-10	6640	160
30-20			32-20	805	45	34-20	2075	85	36-20	4050	120	38-20	6800	160
30-30			32-30	850	45	34-30	2160	85	36-30	4170	120	38-30	6960	170
30-40			32-40	895	50	34-40	2245	85	36-40	4290	120	38-40	7130	170
30-50	310	10	32-50	945	50	34-50	2330	85	36-50	4410	120	38-50	7300	170
30-60	320	15	32-60	995	55	34-60	2415	90	36-60	4530	130	38-60	7470	170
30-70	335	20	32-70	1050	60	34-70	2505	90	36-70	4660	130	38-70	7640	170
30-80	355	20	32-80	1110	60	34-80	2595	90	36-80	4790	130	38-80	7810	170
30-90	375	20	32-90	1170	60	34-90	2685	95	36-90	4920	130	38-90	7980	170
1131-00	395	25	1133-00	1230	60	1135-00	2780	95	1137-00	5050	140	1139-00	8150	170
31-10	420	25	33-10	1290	60	35-10	2875	95	37-10	5190	140	39-10	8320	170
31-20	445	30	33-20	1350	65	35-20	2970	95	37-20	5330	140	39-20	8490	170
31-30	475	30	33-30	1415	65	35-30	3065	100	37-30	5470	140	39-30	8660	170
31-40	505	30	33-40	1480	70	35-40	3165	100	37-40	5610	140	39-40	8830	170
31-50	535	30	33-50	1550	70	35-50	3265	105	37-50	5750	140	39-50	9000	170
31-60	570	35	33-60	1620	70	35-60	3370	105	37-60	5890	140			
31-70	605	35	33-70	1690	75	35-70	3475	110	37-70	6030	150			
31-80	645	40	33-80	1765	75	35-80	3585	110	37-80	6180	150			
31-90	685	40	33-90	1840	75	35-90	3695	115	37-90	6330	150			

The above table is not applicable for ice conditions. It is based on all discharge measurements made up to date. Elevations to G. S. of Canada datum. Ref. to B.M. 42 E.—Elev. 1198-44.

RAINY LAKE INVESTIGATION

WATER LEVELS—TURTLE RIVER—NEAR MINE CENTRE, ONT.

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

[To Reduce to Sea-level Datum Subtract 1.40 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1											1134.59	1133.38
2											34.49	33.36
3											34.45	33.36
4											34.51	33.34
5											34.51	33.34
6											34.36	33.29
7											34.35	33.21
8											34.27	33.11
9											34.20	33.03
10											34.18	32.93
11											34.10	32.84
12											34.02	32.76
13											33.99	32.69
14											33.97	32.60
15											33.95	32.54
16											33.89	32.48
17											33.87	32.44
18											33.86	32.44
19											33.80	32.33
20											33.73	32.29
21											33.70	32.27
22											33.68	32.23
23											33.63	32.80
24											33.57	32.17
25											33.55	32.16
26											33.53	32.12
27											33.49	32.09
28											33.48	32.07
29											33.45	32.07
30											33.43	32.05
31												32.03
1915												
1	1132.03	1131.90	1131.93	1131.86	1133.74	1134.95	1136.86	1135.72	1133.95	1133.34	1133.22	1133.47
2	32.01	31.93	31.93	31.86	33.70	34.70	36.74	35.59	33.90	33.36	33.20	33.45
3	32.01	31.93	31.90	31.86	33.66	34.78	36.61	35.53	33.86	33.34	33.11	33.45
4	31.99	31.93	31.90	31.86	33.66	34.78	36.55	35.45	33.78	33.36	33.11	33.41
5	31.97	31.95	31.90	31.90	33.61	34.88	36.53	35.40	33.66	33.36	33.09	33.40
6	31.99	31.95	31.90	31.95	33.57	35.03	36.45	35.33	33.55	33.36	33.11	33.40
7	31.99	31.95	31.88	31.85	33.72	35.11	36.40	35.26	33.40	33.36	33.07	33.36
8	31.99	31.93	31.86	32.03	34.11	35.11	36.32	35.19	33.32	33.36	33.28	33.36
9	31.97	31.93	31.86	32.11	34.40	35.03	36.24	35.11	33.28	33.45	33.34	33.36
10	31.95	31.93	31.86	32.24	34.53	35.01	36.19	35.01	33.28	33.45	33.40	33.36
11	31.95	31.93	31.86	32.49	34.57	35.07	36.14	34.93	33.20	33.47	33.59	33.36
12	31.95	31.93	31.86	32.53	34.61	35.24	36.11	34.82	33.10	33.45	33.88	33.36
13	31.95	31.93	31.86	32.61	34.57		36.07	34.78	33.05	33.40	33.95	33.34
14	31.95	31.90	31.86	32.70	34.55		36.05	34.66	33.05	33.38	33.99	33.32
15	31.95	31.95	31.86	32.78	34.49		36.03	34.61	32.99	33.38	34.01	33.32
16	31.95	31.95	31.88	32.95	34.49		36.00	34.53	32.97	33.40	33.99	33.32
17	31.95	31.95	31.88	33.03	34.51		35.93	34.51	32.93	33.38	33.99	33.28
18	31.95	31.95	31.86	33.13	34.53		35.83	34.45	33.01	33.36	33.95	33.28
19	31.95	31.95	31.86	33.24	34.51		35.92	34.58	32.97	33.36	33.86	33.28
20	31.95	31.95	31.86	33.28	34.53		36.03	34.30	32.97	33.34	33.86	33.28
21	31.95	31.95	31.86	33.32	34.63		36.03	34.28	32.93	33.36	33.83	33.28
22	31.95	31.95	31.86	33.36	34.88		36.07	34.23	32.86	33.28	33.76	33.24
23	31.95	31.95	31.96	33.36	35.05		36.16	34.18	32.84	33.24	33.70	33.24
24	31.95	31.95	31.90	33.40	35.18		36.20	34.11	32.84	33.20	33.63	33.26
25	31.95	31.95	31.90	33.51	35.16	36.55	36.20	34.09	33.03	33.24	33.61	33.26
26	31.93	31.95	31.86	33.55	35.18	36.70	36.19	34.07	33.07	33.24	33.57	33.26
27	31.93	31.93	31.86	33.66	35.20	36.70	36.12	34.03	33.18	33.20	33.53	33.26
28	31.93	31.93	31.90	33.78	35.26	36.78	36.07	33.96	33.20	33.24	33.52	33.26
29	31.93		31.90	33.88	35.30	36.80	36.03	34.00	33.28	33.26	33.53	33.24
30	31.90		31.90	33.88	35.32	36.84	35.90	33.93	33.33	33.20	33.51	33.24
31	31.90		31.86		35.18		35.78	34.93		33.20		33.20

WATER LEVELS—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

[To reduce to Sea-level Datum subtract 1.40 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	1133-20	1133-20	1133-05	1133-03		1138-53	1137-51	1135-55	1134-81	1135-89	1134-54	134-32
2	33-20	33-20	33-03	33-03		38-70	37-70	35-51	34-78	35-84	34-58	34-30
3	33-20	33-20	33-03	33-05		38-78	37-70	35-49	34-76	35-79	34-59	34-28
4	33-20	33-18	33-03	33-05		38-78	37-71	35-48	34-70	35-72	34-59	34-26
5	33-20	33-18	33-03	33-05		38-86	37-76	35-43	34-76	35-63	34-9	34-26
6	33-20	33-16	33-03	33-03		38-86	37-78	35-47	34-86	35-56	34-59	34-22
7	33-20	33-16	33-03	33-03		38-86	37-78	35-45	34-97	35-51	34-65	34-26
8	33-20	33-16	33-05	33-03		38-86	37-78	35-43	35-03	35-46	34-86	34-26
9	33-20	33-16	33-05	33-03		38-61	37-70	35-37	34-97	35-39	34-94	34-24
10	33-20	33-13	33-05	33-03		38-61	37-63	35-41	34-82	35-30	35-03	34-22
11	33-20	33-13	33-05	33-05		38-58	37-61	35-36	34-78	35-23	35-09	34-19
12	33-20	33-13	33-05	33-11		38-53	37-56	35-30	34-88	35-18	35-03	34-17
13	33-20	33-13	33-03	33-36		38-59	37-26	35-26	35-03	35-12	35-01	34-13
14	33-20	33-11	33-03	33-45		38-54	37-18	35-19	35-06	35-04	34-97	34-11
15	33-20	33-11	33-03	33-53		38-54	37-11	35-13	35-06	34-99	34-91	34-09
16	33-18	33-11	33-01			38-47	37-05	35-06	35-03	34-94	34-87	34-09
17	33-18	33-11	33-01			38-45	36-88	35-10	35-03	34-84	34-84	34-07
18	33-18	33-11	33-01			38-38	36-80	35-09	35-04	34-79	34-81	34-01
19	33-18	33-09	33-01			38-32	36-72	35-03	35-09	34-78	34-76	34-01
20	33-18	33-09	32-99			38-16	36-63	35-01	35-11	34-78	34-67	34-01
21	33-18	33-07	32-99			37-90	36-55	34-95	35-32	34-79	34-67	33-99
22	33-18	33-07	32-99			37-70	36-41	35-01	35-61	34-77	34-59	33-96
23	33-18	33-07	32-99			37-55	36-30	35-03	35-86	34-73	34-59	33-94
24	33-18	33-07	32-99			37-47	36-18	35-03	36-07	34-70	34-55	33-92
25	33-20	33-07	36-99			37-38	36-05	35-05	36-11	34-51	34-51	33-92
26	33-20	33-07	32-99		38-53	37-36	35-05	35-03	36-15	34-45	34-46	33-92
27	33-20	33-07	32-99		38-53	37-36	35-88	35-03	36-15	34-44	34-42	33-92
28	33-20	33-07	32-99		38-53	37-36	35-80	35-02	36-13	34-43	34-38	33-92
29	33-20	33-05	32-99		38-45	37-38	35-72	34-97	36-11	34-42	34-36	33-90
30	33-22		32-99		38-36	37-42	35-70	34-91	35-97	34-42	34-34	33-90
31	33-22		33-03		38-36		35-65	34-85		34-49		33-88
1917												
1	1133-86	1133-61	1133-51	1133-38	1135-26	1134-73	1133-44	1133-32	1134-31	1134-23	1133-83	1133-36
2	33-86	33-59	33-51	33-38	35-42	34-70	33-58	33-35	34-32	34-21	33-80	33-34
3	33-84	33-59	33-51	33-38	35-59	34-63	33-64	33-37	34-35	34-21	33-80	33-31
4	33-84	33-59	33-51	33-38	35-67	34-58	33-67	33-27	34-34	34-15	33-77	33-28
5	33-82	33-59	33-49	33-36	35-80	34-54	33-63	33-19	34-36	34-10	33-76	33-26
6	33-82	33-59	33-46	33-36	35-90	34-51	33-62	33-11	34-38	34-03	33-76	33-22
7	33-80	33-59	33-46	33-34	35-99	34-52	33-60	33-07	34-38	33-97	33-76	33-21
8	33-80	33-57	33-46	33-34	36-07	34-55	33-58	33-00	34-39	33-93	33-76	33-19
9	33-78	33-57	33-44	33-36	36-09	34-53	33-55	32-98	34-40	33-89	33-76	33-17
10	33-78	33-55	33-44	33-36	36-09	34-50	33-49	33-01	34-40	33-82	33-76	33-14
11	33-78	33-55	33-42	33-38	36-09	34-46	33-53	33-02	34-40	33-77	33-72	33-11
12	33-78	33-53	33-42	33-42	36-09	34-44	33-48	33-17	34-38	33-71	33-70	33-09
13	33-78	33-53	33-42	33-42	36-08	34-37	33-46	33-21	34-40	33-69	33-67	33-06
14	33-76	33-51	33-42	33-46	36-04	34-31	33-44	33-13	34-38	33-71	33-65	33-05
15	33-74	33-51	33-44	33-51	36-01	34-28	33-36	33-07	34-38	33-68	33-63	33-00
16	33-72	33-51	33-44	33-53	35-97	34-20	33-29	33-02	34-38	33-65	33-61	32-98
17	33-72	33-51	33-44	33-57	35-93	34-20	33-23	33-10	34-37	33-70	33-55	32-96
18	33-69	33-51	33-42	33-59	35-88	34-06	33-19	33-17	34-35	33-77	33-56	32-94
19	33-69	33-51	33-42	33-67	35-83	34-01	33-13	33-24	34-33	33-81	33-55	32-90
20	33-69	33-51	33-42	33-76	35-78	33-93	33-09	33-24	34-31	33-80	33-52	32-90
21	33-69	33-51	33-42	33-88	35-69	33-83	33-05	33-31	34-30	33-79	33-53	32-88
22	33-67	33-53	33-40	34-13	35-64	33-76	33-03	33-35	34-30	33-74	33-53	32-88
23	33-67	33-53	33-40	34-17	35-55	33-69	32-97	33-40	34-30	33-71	33-50	32-86
24	33-67	33-53	33-40	34-26	35-46	33-65	32-91	33-49	34-30	33-71	33-50	32-86
25	33-67	33-51	33-40	34-42	35-37	33-61	32-83	33-60	34-30	33-71	33-49	32-84
26	33-65	33-51	33-40	34-51	35-31	33-59	32-83	33-72	34-30	33-74	33-46	32-82
27	33-65	33-51	33-38	34-67	35-19	33-54	32-80	33-91	34-33	33-79	33-46	32-82
28	33-65	33-51	33-38	34-80	35-07	33-53	32-86	34-05	34-36	33-85	33-43	32-82
29	33-65		33-38	34-96	34-94	33-48	33-05	34-11	34-36	33-86	33-39	32-80
30	33-63		33-36	35-13	34-85	33-44	33-13	34-15	34-32	33-86	33-36	32-80
31	33-63		33-38		34-76		33-22	34-26		33-85		32-80

RAINY LAKE INVESTIGATION

WATER LEVELS—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

[To reduce Sea-level Datum subtract 1.40 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1	1132-80	1132-50	1132-34	1133-05	1134-69	1135-05	1134-49	1134-65	1134-41	1133-58	1134-39	1135-02
2	32-80	32-50	32-34	33-21	34-82	35-30	34-45	34-67	34-35	33-56	34-43	34-96
3	32-80	32-48	32-34	33-34	34-94	35-44	34-44	34-65	34-31	33-52	34-44	34-92
4	32-80	32-46	32-34	33-38	34-99	35-62	34-53	34-68	34-29	33-50	34-47	34-88
5	32-78	32-46	32-34	33-52	35-03	35-70	34-66	34-74	34-22	33-56	34-48	34-86
6	32-78	32-46	32-32	33-46	35-00	35-77	34-70	34-80	34-17	33-62	34-50	34-84
7	32-75	32-46	32-32	33-53	35-13	35-82	34-70	34-83	34-14	33-63	34-59	34-80
8	32-73	32-46	32-32	33-55	35-30	35-82	34-71	34-86	34-13	33-68	34-66	34-77
9	32-73	32-46	32-30	33-55	34-38	35-80	34-66	34-84	34-11	33-70	34-70	34-73
10	32-71	32-44	32-30	33-55	35-40	35-87	34-60	34-87	34-07	33-71	35-02	34-69
11	32-71	32-44	32-30	33-53	35-36	35-85	34-62	34-85	34-08	33-74	35-17	34-67
12	32-71	32-44	32-30	33-53	35-34	35-78	34-63	34-82	34-08	33-78	35-27	34-65
13	32-71	32-42	32-30	33-55	35-32	35-74	34-63	34-94	34-08	33-78	35-31	34-63
14	32-67	32-42	32-30	33-67	35-23	35-75	34-68	35-00	34-04	33-73	35-32	34-59
15	32-65	32-42	32-28	33-59	35-17	35-70	34-73	34-90	34-03	33-71	35-32	34-57
16	1132-65	1132-40	1132-28	1133-63	1135-08	1135-59	1134-73	1134-88	1133-99	1133-74	1135-32	1134-52
17	32-63	32-40	32-26	33-67	35-05	35-57	34-73	34-85	33-95	33-82	35-27	34-50
18	32-63	32-40	32-26	33-76	35-01	35-34	34-72	34-81	33-91	33-86	35-43	34-46
19	32-63	32-38	32-28	33-84	34-93	35-13	34-70	34-77	33-90	33-85	35-46	34-44
20	32-61	32-38	32-30	33-88	34-97	35-08	34-65	34-76	33-89	33-83	35-48	34-40
21	32-61	32-38	32-30	33-88	84-83	34-94	34-66	34-72	33-85	33-82	35-50	34-38
22	32-59	32-38	32-30	33-88	34-89	34-82	34-66	34-63	33-83	33-81	35-50	34-38
23	32-59	32-36	32-30	33-88	34-90	34-76	34-64	34-61	33-82	33-81	35-47	34-34
24	32-57	32-38	32-32	33-84	34-88	34-72	34-62	34-63	33-79	33-86	35-40	34-32
25	32-57	32-36	32-38	33-73	34-88	34-65	34-57	34-61	33-75	33-88	35-36	34-30
26	32-57	32-36	32-42	33-71	34-88	34-63	34-51	34-58	33-72	33-94	35-32	34-28
27	32-57	32-36	32-46	33-69	34-88	34-62	34-49	34-50	33-69	33-96	35-18	34-23
28	32-57	32-36	32-55	33-67	34-85	34-62	34-48	34-49	33-67	34-01	35-10	34-21
29	32-55	32-36	32-61	34-05	34-81	34-65	34-58	34-48	33-64	34-10	35-07	34-17
30	32-55	32-36	32-69	34-38	34-80	34-59	34-64	34-45	33-61	34-19	35-05	34-15
31	32-53	32-36	32-88	34-80	34-80	34-65	34-65	34-42	34-29	34-29	34-13	34-13
1919												
1	1134-11	1133-55	1133-38	1133-55	1136-78	1134-71	1133-67	1136-43	1134-57			
2	34-09	33-52	33-38	33-57	33-80	34-68	33-86	36-33	34-49			
3	34-07	33-52	33-38	33-61	36-76	34-57	34-67	36-24	34-45			
4	34-02	33-52	33-38	33-71	36-71	34-51	36-02	36-09	34-40			
5	34-00	33-52	33-38	33-84	36-65	34-47	37-84	35-97	34-34			
6	33-96	33-52	33-36	34-00	36-51	34-45	38-00	35-93	34-27			
7	33-92	33-50	33-36	34-11	36-51	34-41	38-19	35-89	34-25			
8	33-88	33-50	33-36	34-30	36-52	34-38	38-34	35-82	34-21			
9	33-88	33-50	33-36	34-46	36-51	34-34	38-44	35-69	34-18			
10	33-86	33-48	33-36	34-55	36-51	34-31	38-34	35-59	34-18			
11	33-84	33-48	33-34	34-61	36-47	34-24	38-19	35-51	34-16			
12	33-82	33-48	33-34	34-59	36-48	34-80	38-09	35-56	34-15			
13	33-80	33-46	33-34	34-46	36-47	34-16	38-05	35-67	34-13			
14	33-80	33-46	33-34	34-46	36-42	34-12	38-03	35-63	34-16			
15	33-77	33-46	33-32	34-55	36-35	34-06	37-97	35-57	34-19			
16	33-75	33-44	33-32	34-71	36-30	33-97	37-93	35-55	34-18			
17	33-73	33-44	33-32	35-21	36-26	33-91	37-84	35-54	34-15			
18	33-73	33-42	33-32	35-80	36-24	33-88	37-73	35-51	34-15			
19	33-71	33-42	33-30	36-05	36-12	33-85	37-65	35-46	34-17			
20	33-71	33-42	33-30	36-21	36-00	33-81	37-52	35-43	34-20			
21	33-69	33-40	33-30	36-38	35-91	33-78	37-41	35-40	34-28			
22	33-67	33-40	33-30	36-55	35-83	33-69	37-32	35-36	34-35			
23	33-65	33-40	33-32	36-71	35-75	33-72	37-24	35-31	34-39			
24	33-63	33-40	33-32	36-76	35-61	33-74	37-14	35-23	34-40			
25	33-61	33-40	33-32	36-96	35-49	33-72	37-01	35-12	34-43			
26	33-59	33-40	33-38	36-96	35-41	33-72	36-92	35-03	34-56			
27	33-59	33-40	33-42	36-93	35-25	33-68	36-88	34-91	34-62			
28	33-57	33-38	33-48	36-85	35-12	33-63	36-84	34-82	34-64			
29	33-57	33-38	33-50	36-78	35-00	33-58	36-69	34-73	34-71			
30	33-55	33-38	33-50	36-80	34-90	33-60	36-62	34-71	34-71			
31	33-55	33-38	33-53	34-76	34-76	33-53	36-53	34-65	34-65			

## WATER LEVELS—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G. S. of Canada Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1								1132-42	1131-37	1131-08	1130-76	1130-66
2								32-35	31-30	31-07	30-76	30-66
3								32-30	31-30	31-09	30-78	30-66
4								32-26	31-29	31-10	30-76	30-66
5								32-21	31-27	31-06	30-74	30-66
6								32-19	31-23	31-00	30-73	30-66
7								32-16	31-19	31-00	30-73	30-65
8								32-12	31-16	30-99	30-74	30-65
9								32-08	31-14	30-97	30-73	30-64
10								32-05	31-11	30-91	30-73	30-64
11								32-05	31-10	30-88	30-74	30-63
12								32-05	31-10	30-86	30-74	30-63
13								32-04	31-10	30-89	30-74	30-67
14							1132-93	32-00	31-03	30-87	30-73	30-69
15							32-83	31-90	31-27	30-86	30-72	30-68
16							32-81	31-90	31-26	30-84	30-71	30-68
17							32-72	31-85	31-23	30-80	30-71	30-68
18							32-71	31-79	31-22	30-81	30-70	30-68
19							32-71	31-74	31-20	30-78	30-70	30-69
20							32-71	31-72	31-19	30-77	30-70	30-69
21							32-72	31-71	31-17	30-71	30-70	30-69
22							32-72	31-69	31-16	30-70	30-69	30-70
23							32-62	31-65	31-14	30-78	30-69	30-70
24							32-65	31-62	31-11	30-78	30-68	30-70
25							32-63	31-57	31-08	30-77	30-66	30-70
26							32-61	31-54	31-17	30-78	30-66	30-70
27							32-58	31-54	31-27	30-78	30-66	30-71
28							32-57	31-47	31-19	30-78	30-67	30-71
29							32-57	31-37	31-13	30-78	30-67	30-71
30							32-53	31-42	31-11	30-78	30-66	30-72
31							32-50	31-38		30-78		30-72
1921												
1	1130-71	1130-68	1130-71	1130-86	1133-78	1134-50	1133-01	1132-48	1131-94	1132-48	1132-13	1132-76
2	30-72	30-67	30-71	30-88	33-74	34-55	32-97	32-47	31-96	32-46	32-13	32-75
3	30-72	30-67	30-71	30-90	33-71	34-67	32-89	32-45	31-90	32-45	32-10	32-74
4	30-73	30-67	30-71	30-93	33-69	34-73	32-87	32-43	31-87	32-42	32-08	32-73
5	30-73	30-66	30-71	30-99	33-64	34-69	32-81	32-42	31-85	32-40	32-05	32-73
6	30-74	30-67	30-71	31-30	33-57	34-67	32-79	32-41	31-84	32-39	32-03	32-72
7	30-74	30-67	30-71	31-63	33-51	34-63	32-74	32-41	31-80	32-36	32-02	32-70
8	30-74	30-67	30-71	32-43	33-49	34-58	32-49	32-35	31-73	32-32	32-00	32-69
9	30-74	30-68	30-71	33-13	33-41	34-51	32-45	32-30	31-87	32-28	31-98	32-69
10	30-74	30-68	30-71	33-53	33-33	34-49	32-59	32-30	31-91	32-26	31-96	32-68
11	30-73	30-68	30-71	33-77	33-30	34-41	32-54	32-27	31-99	32-25	31-94	32-67
12	30-73	30-68	30-71	33-98	33-35	34-34	32-54	32-28	32-06	32-23	31-93	32-67
13	30-73	30-68	30-71	33-49	33-49	34-24	32-54	32-26	32-13	32-20	31-92	32-68
14	30-73	30-67	30-71	33-77	33-77	34-16	32-54	32-23	32-23	32-17	31-90	32-69
15	30-73	30-67	30-71	34-12	34-12	34-04	32-51	32-18	32-26	32-16	31-88	32-70
16	30-73	30-68	30-72	34-09	34-36	34-03	32-46	32-11	32-27	32-14	31-87	32-70
17	30-74	30-69	30-72	34-06	34-64	33-98	32-44	32-11	32-31	32-14	31-86	32-69
18	30-74	30-69	30-72	34-03	34-73	33-91	32-43	32-10	32-34	32-14	31-85	32-68
19	30-74	30-70	30-72	33-96	34-76	33-84	32-34	32-10	32-33	32-15	31-84	32-66
20	30-74	30-70	30-74	33-93	34-60	33-77	32-32	32-05	32-33	32-19	31-83	32-65
21	30-74	30-70	30-75	33-85	34-82	33-70	32-29	32-00	32-34	32-16	31-81	32-65
22	30-74	30-70	30-76	33-77	34-74	33-63	32-28	31-95	32-39	32-22	31-79	32-65
23	30-74	30-70	30-76	33-77	34-69	33-57	32-24	31-98	32-45	32-21	31-79	32-64
24	30-73	30-69	30-76	33-80	34-65	33-49	32-23	31-96	32-48	32-20	31-79	32-64
25	30-73	30-69	30-76	33-81	34-57	33-39	32-18	31-93	32-49	32-17	31-78	32-63
26	30-73	30-72	30-76	33-84	34-50	33-37	32-11	31-95	32-50	32-16	31-78	32-62
27	30-72	30-72	30-77	33-86	34-49	33-29	32-23	31-97	32-57	32-15	31-76	32-61
28	30-72	30-72	30-78	33-86	34-49	33-23	32-29	31-99	32-60	32-15	31-75	32-60
29	30-71		30-80	33-84	34-47	33-14	32-39	32-02	32-55	32-15	31-76	32-59
30	30-71		30-84	33-81	34-50	33-05	32-47	32-00	32-53	32-15	31-76	32-59
31	30-70		30-85		34-53		32-49	31-95		32-15		32-58

RAINY LAKE INVESTIGATION

WATER LEVELS—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G. S. of Canada Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	1131-56	1131-40	1131-29	1131-33	1135-73	1134-40	1132-82	1132-30	1131-97	1131-74	1131-16	1131-80
2	31-55	31-43	31-29	31-34	35-71	34-31	32-80	32-28	32-05	31-73	31-24	31-78
3	31-55	31-44	31-28	31-34	35-71	34-20	32-75	32-26	32-05	31-67	31-30	31-74
4	31-54	31-44	31-27	31-35	35-73	34-09	32-68	32-22	32-05	31-64	31-32	31-75
5	31-54	31-44	31-26	31-35	35-71	34-01	32-59	32-21	32-06	31-60	31-32	31-76
6	31-54	31-43	31-27	31-39	35-68	33-92	32-66	32-24	32-06	31-60	31-37	31-75
7	31-54	31-42	31-27	31-48	35-61	33-84	32-61	32-25	32-10	31-58	31-54	31-75
8	31-53	31-41	31-26	31-72	35-53	33-85	32-58	32-24	32-15	31-56	31-60	31-74
9	31-53	31-40	31-26	31-84	35-57	33-83	32-57	32-21	32-14	31-55	31-70	31-74
10	31-52	31-40	31-25	32-09	35-62	33-75	32-55	32-20	32-13	31-53	31-70	31-72
11	31-50	31-39	31-24	32-39	35-72	33-76	32-52	32-17	32-11	31-51	31-79	31-71
12	31-48	31-39	31-24	32-67	35-71	33-65	32-51	32-16	32-11	31-46	31-87	31-70
13	31-47	31-38	31-24	32-84	35-70	33-60	32-50	32-16	32-12	31-41	31-91	31-69
14	31-47	31-37	31-24	33-01	35-62	33-51	32-48	32-14	32-10	31-40	31-95	31-67
15	31-47	31-37	31-24	33-12	35-55	33-41	32-47	32-12	32-10	31-36	31-98	31-67
16	31-47	31-36	31-25	33-39	35-49	33-42	32-47	32-10	32-09	31-34	31-99	31-67
17	31-47	31-35	31-25	33-90	35-38	33-43	32-46	32-11	32-07	31-32	32-00	31-66
18	31-46	31-34	31-25	34-44	35-37	33-46	32-41	32-11	32-08	31-29	31-97	31-65
19	31-46	31-34	31-25	34-92	35-41	33-47	32-37	32-07	32-08	31-28	31-95	31-64
20	31-47	31-34	31-26	35-18	35-45	33-44	32-34	32-05	32-05	31-27	31-95	31-63
21	31-47	31-34	31-25	35-25	35-40	33-40	32-27	32-11	32-03	31-26	31-96	31-63
22	31-47	31-33	31-25	35-37	35-35	33-34	32-35	32-11	32-01	31-25	31-95	31-64
23	31-46	31-33	31-25	35-36	35-27	33-23	32-35	32-12	32-00	31-23	31-93	31-64
24	31-45	31-33	31-25	35-37	35-18	33-14	32-35	32-14	31-96	31-21	31-91	31-64
25	31-44	31-32	31-24	35-56	35-11	33-17	32-34	32-17	31-92	31-20	31-88	31-64
26	31-43	31-31	31-25	35-68	35-01	33-07	32-34	32-15	31-90	31-17	31-84	31-64
27	31-42	31-31	31-28	35-71	34-89	33-02	32-34	32-11	31-88	31-15	31-82	31-64
28	31-41	31-30	31-33	35-75	34-80	32-97	32-33	32-10	31-83	31-13	31-81	31-63
29	31-40	31-34	31-34	35-76	34-73	32-32	32-31	32-08	31-80	31-11	31-80	31-63
30	31-39	31-34	31-34	35-76	34-60	32-86	32-31	32-03	31-77	31-11	31-80	31-63
31	31-38	31-34	31-34	34-51	34-51	32-32	32-32	32-00	31-77	31-13	31-80	31-63
1923												
1	1131-63	1131-59	1131-45	1131-46	1136-57	1133-75	1132-75	1132-53	1132-48	1131-86	1131-61	1131-30
2	31-63	31-59	31-45	31-48	36-55	33-68	32-66	32-55	32-47	31-84	31-59	31-29
3	31-62	31-58	31-46	31-48	36-55	33-63	32-61	32-54	32-46	31-82	31-58	31-27
4	31-62	31-57	31-45	31-47	36-55	33-58	32-55	32-54	32-42	31-80	31-59	31-25
5	31-62	31-56	31-44	31-47	36-50	33-49	32-48	32-54	32-36	31-79	31-58	31-23
6	31-61	31-55	31-43	31-46	36-42	33-41	32-46	32-55	32-35	31-75	31-57	31-22
7	31-60	31-54	31-42	31-45	36-29	33-34	32-41	32-54	32-32	31-72	31-55	31-20
8	31-61	31-53	31-41	31-45	36-16	33-32	32-43	32-53	32-29	31-70	31-54	31-18
9	31-61	31-52	31-40	31-44	36-05	33-27	32-50	32-51	32-25	31-67	31-52	31-17
10	31-61	31-50	31-40	31-43	35-93	33-21	32-52	32-54	32-23	31-71	31-52	31-17
11	31-62	31-50	31-39	31-41	35-80	33-13	32-61	32-58	32-20	31-69	31-50	31-16
12	31-63	31-50	31-41	31-42	35-67	33-09	32-64	32-60	32-17	31-69	31-48	31-16
13	31-64	31-50	31-44	31-42	35-52	33-05	32-66	32-56	32-14	31-68	31-46	31-15
14	31-64	31-49	31-43	31-41	35-37	32-98	32-73	32-55	32-09	31-68	31-45	31-13
15	31-65	31-49	31-42	31-41	35-26	32-95	32-72	32-54	32-04	31-66	31-45	31-12
16	31-65	31-49	31-42	31-42	35-13	32-90	32-68	32-53	32-01	31-65	31-46	31-11
17	31-65	31-49	31-42	31-44	35-04	32-83	32-66	32-53	32-02	31-65	31-47	31-10
18	31-65	31-49	31-41	31-48	34-93	32-75	32-65	32-53	32-08	31-71	31-46	31-09
19	31-65	31-49	31-42	31-65	34-80	32-72	32-63	32-53	32-06	31-78	31-45	31-08
20	31-65	31-48	31-43	32-11	34-76	32-58	32-60	32-52	32-05	31-76	31-46	31-08
21	31-64	31-47	31-44	32-96	34-65	32-67	32-57	32-51	32-03	31-73	31-45	31-07
22	31-64	31-46	31-43	33-73	34-56	32-82	32-56	32-49	32-01	31-70	31-43	31-07
23	31-63	31-45	31-42	34-62	34-41	32-85	32-56	32-48	32-00	31-69	31-42	31-05
24	31-62	31-45	31-42	35-27	34-34	32-95	32-55	32-46	31-98	31-68	31-41	31-04
25	31-61	31-45	31-41	35-86	34-27	33-01	32-54	32-43	32-95	31-66	31-37	31-02
26	31-61	31-45	31-40	36-24	34-18	33-02	32-51	32-40	31-94	31-68	31-35	31-03
27	31-60	31-45	31-39	36-46	34-10	33-02	32-48	32-36	31-93	31-66	31-33	31-02
28	31-60	31-45	31-41	37-62	34-03	32-98	32-46	32-35	31-91	31-66	31-33	31-02
29	31-60	31-44	31-44	37-67	33-96	32-88	32-45	32-34	31-90	31-68	31-32	31-01
30	31-60	31-45	31-45	37-69	33-87	32-82	32-47	32-32	31-88	31-68	31-31	31-00
31	31-60	31-46	31-46	33-80	33-80	32-82	32-45	32-52	31-88	31-66	31-31	30-99

## WATER LEVELS—TURTLE RIVER—NEAR MINE DENTRE, ONT.—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G. S. of Canada Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	1130-99	1130-89	1130-78	1130-71	1134-53	1133-08	1132-67	1132-07	1132-60	1131-61	1131-57	1131-02
2	30-98	30-89	30-77	30-71	34-52	33-05	32-62	32-02	32-61	31-61	31-51	31-02
3	30-98	30-88	30-76	30-71	34-42	32-99	32-55	32-06	32-62	31-61	31-48	31-02
4	30-97	30-88	30-75	30-71	34-35	32-95	32-50	32-03	32-60	31-62	31-41	31-01
5	30-97	30-88	30-75	30-72	34-22	32-92	32-43	32-04	32-59	31-64	31-31	30-99
6	30-96	30-87	30-76	30-72	34-09	32-93	32-30	32-02	32-52	31-68	31-25	30-97
7	30-95	30-87	30-76	30-72	34-01	33-02	32-34	31-98	32-45	31-67	31-21	30-96
8	30-94	30-87	30-76	30-82	33-85	33-02	32-31	31-95	32-39	31-68	31-20	30-95
9	30-93	30-87	30-77	30-85	33-77	33-03	32-32	31-92	32-32	31-65	31-19	30-97
10	30-93	30-86	30-77	30-92	33-72	33-11	32-32	31-92	32-19	31-72	31-19	30-96
11	30-93	30-86	30-77	30-93	33-63	33-14	32-28	31-93	32-11	31-68	31-19	30-95
12	30-93	30-86	30-76	30-96	33-53	33-16	32-29	31-90	32-05	31-69	31-20	30-95
13	30-92	30-85	30-76	30-99	33-49	33-12	32-27	31-86	32-02	31-73	31-19	30-96
14	30-92	30-85	30-75	31-04	33-51	33-06	32-25	31-90	31-95	31-72	31-19	30-96
15	30-92	30-85	30-75	31-09	33-58	33-01	32-21	31-91	31-87	31-72	31-18	30-97
16	30-91	30-84	30-75	31-23	33-58	32-95	32-17	31-89	31-82	31-72	31-18	30-97
17	30-91	30-84	30-75	31-31	33-63	32-98	32-12	31-88	31-75	31-72	31-17	30-96
18	30-91	30-83	30-74	31-47	33-62	32-96	32-09	31-94	31-67	31-72	31-16	30-96
19	30-90	30-83	30-74	31-57	33-60	33-00	32-04	31-92	31-62	31-73	31-14	30-95
20	30-90	30-83	30-73	31-67	33-59	33-18	32-02	31-92	31-57	31-74	31-18	30-94
21	30-90	30-82	30-72	31-78	33-59	33-22	32-09	32-05	31-57	31-69	31-12	30-93
22	30-89	30-82	30-72	31-90	33-58	33-21	32-05	32-22	31-65	31-65	31-11	30-93
23	30-88	30-82	30-72	32-05	33-53	33-18	32-02	32-24	31-62	31-62	31-11	30-93
24	30-90	30-81	30-71	32-33	33-48	33-12	32-02	32-23	31-61	31-59	31-10	30-92
25	30-90	30-81	30-71	33-03	33-39	33-08	32-01	32-22	31-61	31-57	31-18	30-92
26	30-89	30-80	30-71	33-53	33-33	33-02	31-99	32-26	31-58	31-55	31-07	30-92
27	30-90	30-79	30-72	33-97	33-28	32-93	32-00	32-25	31-62	31-51	31-06	30-91
28	30-91	30-78	30-72	34-25	33-23	32-83	32-06	32-25	31-67	31-47	31-04	30-91
29	30-90	30-79	30-71	34-39	33-19	32-78	32-06	32-34	31-65	31-45	31-03	30-90
30	30-89	30-79	30-71	34-52	33-15	32-71	32-05	32-45	31-62	31-43	31-03	30-88
31	30-89	30-79	30-71	33-11	33-11	32-08	32-08	32-57	31-50	31-50	31-03	30-87
1925												
1	1130-91	.....	.....	1131-00	1134-95	1132-84	1133-85	1133-03	1132-21	1131-84	1131-73	1131-41
2	30-91	.....	.....	31-16	34-96	32-90	33-80	33-00	32-19	31-88	31-75	31-39
3	30-90	.....	.....	31-32	34-96	32-94	33-84	32-96	32-17	31-89	31-71	31-37
4	30-88	.....	.....	31-52	34-97	32-97	33-81	32-89	32-11	31-94	31-69	31-34
5	30-87	.....	.....	31-70	34-98	33-06	33-71	32-87	32-02	31-94	31-59	31-30
6	30-86	.....	.....	31-84	34-70	33-13	33-66	32-81	31-99	31-97	31-61	31-30
7	30-85	.....	.....	32-14	34-67	33-24	33-63	32-79	31-95	31-97	31-61	31-30
8	30-84	.....	.....	32-96	34-67	33-33	33-60	32-74	31-92	31-97	31-61	31-30
9	30-83	.....	.....	33-45	34-67	33-35	33-58	32-69	31-89	32-01	31-61	31-30
10	30-81	.....	.....	33-55	34-61	33-73	33-47	32-64	31-91	32-01	31-61	31-30
11	30-80	.....	.....	34-01	34-47	33-86	33-43	32-57	31-89	32-01	31-61	31-30
12	30-80	.....	.....	34-05	34-41	33-94	33-39	32-61	31-85	32-01	31-60	31-30
13	30-80	.....	.....	34-13	34-30	34-11	33-31	32-64	31-82	31-97	31-61	31-30
14	30-79	.....	.....	34-23	34-21	34-18	33-26	32-51	31-80	31-97	31-61	31-24
15	30-79	1130-76	.....	34-25	34-20	34-19	33-31	32-46	31-82	31-97	31-61	31-23
16	30-78	.....	.....	34-28	34-15	34-17	33-37	32-51	31-84	31-97	31-60	31-22
17	30-78	.....	.....	33-76	34-14	34-16	33-39	32-53	31-85	31-93	31-57	31-20
18	30-78	.....	.....	33-86	33-97	34-14	33-41	32-59	31-74	31-91	31-57	31-19
19	30-79	.....	.....	33-86	33-81	34-27	33-39	32-61	31-71	31-87	31-57	31-17
20	30-79	.....	.....	33-86	33-66	34-36	33-41	32-59	31-81	31-87	31-57	31-17
21	30-78	.....	.....	33-86	33-51	34-35	33-41	32-56	31-87	31-87	31-57	31-15
22	30-78	.....	1130-80	33-86	33-39	34-35	33-43	32-56	31-91	31-83	31-56	31-15
23	30-78	.....	30-80	33-86	33-22	34-38	33-41	32-61	31-88	31-81	31-56	31-13
24	30-78	.....	30-81	34-57	33-19	34-41	33-36	32-44	31-85	31-79	31-56	31-13
25	30-77	.....	30-82	34-60	33-11	34-36	33-35	32-41	31-85	31-77	31-56	31-12
26	30-76	.....	30-84	34-62	33-03	34-43	33-33	32-37	31-85	31-77	31-56	31-12
27	30-76	.....	30-86	34-64	33-04	34-36	33-20	32-20	31-81	31-75	31-54	31-12
28	30-76	.....	30-90	34-65	33-01	34-29	33-16	32-31	31-77	31-73	31-53	31-12
29	30-75	.....	30-91	34-83	32-81	34-11	33-15	32-32	31-71	31-71	31-51	31-09
30	30-75	.....	30-93	34-93	32-91	33-76	33-11	32-35	31-69	31-71	31-45	31-07
31	30-75	.....	30-95	.....	32-86	.....	33-06	32-22	.....	31-71	.....	31-05

RAINY LAKE INVESTIGATION

WATER LEVELS—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Concluded

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to G. S. of Canada Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1	1131-03	1130-88		1130-88	1133-10	1132-93	1134-92		1133-15	1134-25	1134-24	1133-28
2	31-02	30-88		30-88	33-15	32-93	34-84		33-18	34-32	34-22	33-28
3	31-00	30-88		30-88	33-21	32-96	34-65		33-20	34-36	34-20	33-28
4	31-00	30-88		30-88	33-31	32-95	34-64		33-25	34-48	34-20	33-17
5	31-00	30-88		30-88	33-27	32-92	34-62		33-28	34-59	34-20	33-17
6	31-00	30-88	1130-84	30-88	33-22	32-89	34-59		33-40	34-83	34-19	33-17
7	31-00	30-88	30-84	30-86	33-26	32-86	34-59		33-40	34-91	34-19	33-17
8	30-99	30-88	30-86	30-87	33-22	32-83	34-58		33-45	34-95	34-18	33-06
9	30-98	30-88	30-87	30-88	33-19	32-78	34-56		33-52	34-95	34-20	33-06
10	30-98	30-88	30-86	30-89	33-12	32-76	34-56		33-52	34-94	34-18	33-06
11	30-98	30-88	30-85	30-90	33-09	32-73	34-58		33-52	34-92	34-17	33-05
12	30-98	30-87	30-84	30-93	33-06	32-69	34-58		33-49	34-90	34-15	33-05
13	30-98	30-88	30-84	30-93	33-02	32-66	34-59		33-45	34-88	34-13	33-05
14	30-98	30-88	30-84	30-93	32-99	32-66	34-66		33-40	34-80	34-13	33-14
15	30-97	30-88	30-84	31-05	32-96	32-66	34-68		33-39	34-80	33-98	33-04
16	30-97	30-88	30-85	31-12	32-90	32-66	34-66		33-35	34-86	33-88	33-14
17	30-97	30-88	30-84	31-22	32-88	32-66	34-68		33-33	34-83	33-78	33-13
18	30-88	30-88	30-84	31-33	32-86	32-64	34-57	1133-11	33-31	34-81	33-78	33-12
19	30-97	30-86	30-84	31-42	32-84	32-64	34-50	33-46	33-30	34-78	33-78	33-03
20	30-96	30-85	30-83	31-56	32-76	32-62			33-21	34-76	33-68	33-02
21	30-95	30-85	30-83	31-86	32-72	33-62		33-41	33-30	34-73	33-68	32-92
22	30-95	30-84	30-83	32-05	32-72	34-88		33-31	33-30	34-72	33-58	32-92
23	30-94	30-83	30-83	32-20	32-79	34-97		33-26	33-31	34-69	33-58	32-91
24	30-93	30-83	30-83	32-29	32-84	35-03		33-21	33-35	34-61	33-48	32-81
25	30-92	30-83	30-83	32-39	32-88	35-09		33-17	33-40	34-55	33-38	32-81
26	30-91	30-83	30-83	32-42	32-90	35-00		33-11	33-58	34-52	33-38	32-90
27	30-91	30-83	30-83	32-55	32-95	34-96		33-11	33-93	34-52	33-38	32-90
28	30-91	30-83	30-86	32-66	32-93	34-94		33-11	34-02	34-51	33-28	32-79
29	30-91		30-86	32-83	32-92	34-93		33-11	34-10	34-31	33-28	32-79
30	30-91		30-87	32-90	32-92	34-92		33-14	34-18	34-28	33-28	32-79
31	30-90		30-88		32-92			33-14		34-27		32-78
										Frozen		
1927												
1	1132-62	1132-50	1131-85	1131-93	1137-38	1138-12	1138-38	1136-29	1133-87	1133-27	1133-10	1132-40
2	32-62	32-50	31-84	31-95	37-38	37-88	38-52	35-88	33-90	33-30	33-15	32-39
3	32-62	32-49	31-82	31-97	37-40	37-82	38-48	35-61	33-91	33-40	33-16	32-38
4	32-61	32-47	31-82	32-17	37-77	37-75	38-36	35-52	33-71	33-55	33-10	32-38
5	32-61	32-47	31-81	32-33	37-87	37-56	38-33	35-50	33-90	33-59	33-08	32-48
6	32-61	32-43	31-81	32-40	37-96	37-37	38-43	35-41	33-93	33-61	33-05	32-36
7	32-61	32-37	31-80	32-43	38-08	37-16	38-59	35-33	33-91	33-62	33-00	32-31
8	32-61	32-35	31-80	32-50	38-24	37-01	38-75	35-28	33-90	33-65	33-00	32-29
9	32-60	32-35	31-79	32-57	38-39	37-01	38-78	35-23	33-88	33-62	32-97	32-20
10	32-60	32-33	31-78	32-62	38-88	36-95	39-00	35-09	33-84	33-61	32-96	32-18
11	32-60	32-32	31-78	32-65	38-61	36-88	39-08	34-97	33-71	33-60	32-96	32-17
12	32-60	32-31	31-77	32-83	38-68	36-76	39-13	34-92	33-73	33-60	32-96	32-17
13	32-61	32-29	31-77	33-10	38-73	36-65	39-19	34-90	33-90	33-60	32-86	32-15
14	32-61	32-24	31-78	33-38	38-78	36-51	39-25	34-79	33-91	33-60	32-78	32-14
15	32-60	32-13	31-82	33-77	38-78	36-46	39-29	34-61	33-91	33-60	32-77	32-13
16	32-60	32-04	31-87	34-46	38-80	36-31		34-56	33-86	33-59	32-72	32-08
17	32-60	32-03	31-89	34-53	38-86	36-18		34-41	33-81	33-59	32-65	32-07
18	32-60	32-03	31-93	34-69	38-88	36-17		34-41	33-88	33-57	32-65	32-07
19	32-59	32-00	31-95	34-96	38-73	36-16		34-40	33-71	33-55	32-65	32-05
20	32-59	31-95	31-94	35-43	38-63	36-16	37-66	34-22	33-70	33-45	32-64	32-05
21	32-59	31-94	31-93	35-73	38-50	36-23		34-11	33-68	33-42	32-63	32-05
22	32-58	31-92	31-93	36-02	38-77	36-88		34-09	33-66	33-42	32-58	32-05
23	32-58	31-92	31-85	36-15	38-73	37-38	37-59	34-01	33-61	33-37	32-57	32-05
24	32-58	31-90	31-85	36-13	38-72	37-60	37-40	33-99	33-50	33-33	32-54	32-04
25	32-58	31-90	31-86	37-61	38-72	37-89	37-03	33-99	33-41	33-27	32-51	32-04
26	32-56	31-89	31-87	37-50	38-66	38-23	36-98	33-99	33-33	33-20	32-49	32-02
27	32-56	31-88	31-87	37-40	38-66	38-17	36-74	33-89	33-30	33-08	32-47	32-02
28	32-54	31-88	31-89	37-39	38-66	38-16	36-63	33-94	33-20	33-04	32-47	32-04
29	32-53		31-89	37-39	38-56	38-18	36-46	33-81	33-18	33-00	32-46	32-16
30	32-53		31-90	37-43	38-28	38-28	36-40	33-81	33-18	33-02	32-46	32-15
31	32-52		31-91		38-14		36-37	33-76		33-07		32-16



DAILY DISCHARGE IN SECOND-FEET—TURTLE RIVER—NEAR MINE CENTRE, ONT.

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1											1355	847
2											1295	838
3											1271	824
4											1170	810
5											1162	792
6											1156	740
7											1150	682
8											1147	635
9											1142	590
10											1135	545
11											1125	500
12											1114	470
13											1095	430
14											1060	350
15											1005	290
16											980	240
17											962	224
18											947	214
19											932	203
20											923	199
21											911	197
22											905	196
23											900	194
24											895	192
25											888	190
26											882	190
27											878	189
28											873	181
29											863	186
30											854	185
31											854	184
1915												
1	184	180	198	242	890	1561	2847	2034	995	702		
2	183	180	199	244	870	1411	2757	1950	970	711		
3	182	180	199	246	850	1459	2600	1911	950	702		
4	182	181	200	246	850	1459	2615	1861	910	711		
5	182	182	202	247	825	1519	2600	1831	850	711		
6	182	182	202	247	806	1609	2542	1789	797	711		
7	182	183	203	247	870	1657	2507	1749	729	711		
8	182	183	206	250	1081	1657	2451	1705	693	711		
9	182	184	208	257	1241	1609	2395	1657	675	752		
10	182	184	209	270	1319	1507	2360	1597	675	752		
11	181	185	210	280	1343	1623	2325	1549	639	761		
12	181	185	212	290	1367	1736	2304	1483	599	752		
13	181	186	213	306	1343	1795	2276	1459	579	729		
14	181	186	214	322	1331	1855	2262	1397	579	720		
15	181	186	216	342	1295	1915	2248	1367	555	720		
16	181	188	218	534	1295	1980	2227	1319	547	729		
17	181	190	220	571	1307	2045	2178	1307	531	720		
18	182	192	220	611	1319	2110	2108	1271	563	711		
19	182	193	221	657	1307	2180	2171	1229	534	711		
20	182	195	222	675	1319	2250	2248	1185	534	702		
21	182	195	223	693	1379	2320	2248	1174	531	711		
22	182	195	227	711	1519	2390	2276	1143	503	675		
23	182	195	228	711	1621	2460	2339	1119	495	657		
24	182	195	230	729	1699	2530	2367	1081	495	639		
25	182	195	232	779	1687	2615	2367	1070	571	657		
26	180	194	233	797	1699	2727	2360	1059	587	657		
27	180	195	234	850	1711	2727	2311	1037	631	639		
28	180	196	237	910	1747	2787	2276	1000	639	657		
29	180		238	960	1767	2802	2248	1020	675	666		
30	180		239	960	1783	2832	2157	985	698	639		
31	180		240		1699		2073	985		639		

RAINY LAKE INVESTIGATION

DAILY DISCHARGE IN SECOND-FEET—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1						5230	3800	1930	1460	2190	1060	910
2						5540	4040	1900	1450	2150	1080	855
3						5680	4040	1890	1440	2120	1080	800
4						5690	4060	1880	1400	2060	1080	745
5						5840	4120	1850	1414	2000	1080	705
6						5840	4150	1870	1490	1950	1080	685
7						5840	4150	1860	1560	1910	1110	705
8						5840	4150	1850	1590	1880	1220	705
9						5380	4040	1810	1560	1830	1260	695
10						5380	3950	1830	1470	1770	1310	685
11						5320	3930	1800	1450	1730	1340	675
12						5230	3870	1760	1500	1690	1310	665
13						5340	3510	1740	1590	1650	1300	650
14						5250	3410	1690	1610	1600	1270	645
15						5250	3330	1650	1610	1580	1240	635
16						5130	3270	1610	1590	1540	1220	635
17						5100	3080	1640	1590	1480	1200	625
18						4980	3000	1630	1600	1460	1190	605
19						4890	2910	1590	1630	1450	1160	605
20						4660	2820	1580	1640	1450	1120	605
21						4300	2750	1550	1780	1460	1120	595
22						4040	2610	1580	1970	1440	1080	585
23						3850	2520	1590	2150	1420	1080	575
24					5170	3760	2410	1590	2320	1400	1060	565
25						3650	2300	1610	2350	1300	1040	565
26					5230	3620	2220	1590	2390	1260	1020	565
27					5230	3620	2170	1590	2390	1260	1000	565
28					5230	3620	2110	1590	2370	1250	980	565
29					5100	3650	2050	1560	2350	1250	970	560
30					4950	3700	2040	1520	2240	1250	960	560
31					4950		2000	1490		1280		550
1917												
1	545	457	422	755	1750	1420	780	730	1190	1150	960	625
2	545	450	422	755	1850	1400	845	740	1200	1140	945	575
3	540	450	422	755	1970	1360	870	750	1210	1140	945	565
4	540	450	422	755	2030	1330	885	705	1200	1110	930	550
5	530	450	415	745	2120	1310	870	675	1220	1080	925	510
6	530	450	404	745	2200	1300	865	645	1220	1050	925	496
7	525	450	404	740	2270	1300	855	625	1220	1020	925	492
8	525	443	404	740	2330	1320	845	600	1230	1000	925	485
9	515	443	398	745	2350	1310	830	590	1240	985	925	478
10	515	436	398	745	2350	1290	805	605	1240	955	925	468
11	515	436	390	755	2350	1270	825	605	1240	930	910	422
12	515	429	390	775	2350	1260	800	665	1220	905	900	415
13	515	429	390	775	2340	1220	790	685	1240	895	885	404
14	510	422	390	790	2310	1190	780	650	1220	905	875	401
15	505	422	398	815	2290	1180	745	625	1220	890	870	384
16	495	422	433	825	2250	1140	715	605	1220	875	860	342
17	495	422	468	840	2220	1080	690	640	1220	900	845	334
18	485	422	495	850	2180	1060	675	665	1210	930	835	328
19	485	422	530	885	2140	1040	650	695	1200	950	830	314
20	485	422	565	925	2110	1000	635	695	1190	945	820	314
21	485	422	565	980	2040	960	620	725	1180	940	825	272
22	478	429	560	1100	2000	925	610	740	1180	920	825	272
23	478	429	560	1120	1940	895	585	765	1180	905	765	264
24	478	429	560	1160	1880	875	565	805	1180	905	765	264
25	478	422	560	1250	1820	860	535	855	1180	905	760	258
26	471	422	560	1300	1780	850	535	910	1180	920	705	216
27	471	422	550	1380	1700	830	525	995	1200	940	705	216
28	471	422	550	1460	1620	825	545	1060	1220	965	690	216
29	471		550	1560	1540	800	620	1090	1220	970	635	208
30	464		545	1660	1490	780	650	1110	1200	970	625	208
31	464		550		1440		685	1160		965		208

DAILY DISCHARGE IN SECOND-FEET—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

RECORDS OF ONTARIO HYDRO-ELECTRIC POWER COMMISSION

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1.....	178	102	65	620	1390	1610	1280	1370	1240	845		
2.....	178	102	65	685	1470	1770	1260	1380	1210	835		
3.....	178	98	65	735	1540	1870	1250	1370	1190	820		
4.....	178	92	65	755	1580	1990	1310	1390	1180	810		
5.....	172	92	65	775	1600	2050	1380	1420	1140	835		
6.....	172	92	61	790	1580	2100	1400	1460	1120	865		
7.....	165	92	61	825	1660	2140	1400	1480	1100	870		
8.....	160	92	61	830	1770	2140	1410	1500	1100	890		
9.....	160	92	51	830	1820	2120	1380	1490	1090	900		
10.....	155	88	51	830	1840	2170	1350	1500	1070	905		
11.....	155	88	51	825	1810	2160	1360	1490	1080	915		
12.....	155	88	51	825	1800	2110	1360	1470	1080	935		
13.....	155	82	51	830	1780	2080	1360	1540	1080	935		
14.....	145	82	51	840	1730	2090	1390	1580	1060	915		
15.....	140	82	54	850	1690	2050	1420	1520	1050	905		
16.....	140	78	54	870	1630	1970	1420	1510	1030	915		
17.....	135	78	50	885	1610	1960	1420	1490	1010	955		
18.....	135	78	50	925	1590	1800	1410	1470	995	970		
19.....	135	73	54	960	1540	1660	1400	1440	990	965		
20.....	130	73	57	980	1560	1630	1370	1440	985	960		
21.....	130	73	57	980	1480	1550	1380	1410	965	955		
22.....	125	73	57	980	1510	1470	1380	1360	960	950		
23.....	125	69	78	980	1520	1440	1370	1350	955	950		
24.....	120	73	108	960	1510	1410	1360	1360	940	970		
25.....	120	69	148	915	1510	1370	1330	1350	920	980		
26.....	120	69	184	905	1510	1360	1300	1330	910	1010		
27.....	120	69	230	995	1510	1360	1280	1290	895	1020		
28.....	120	69	296	885	1490	1360	1280	1280	885	1040		
29.....	115		352	1060	1470	1370	1330	1280	870	1080		
30.....	115		415	1230	1460	1340	1370	1260	860	1130		
31.....	110		515		1460		1370	1250		1180		
1919												
1.....				830	2960	1410	885	2640	1330			
2.....				840	2980	1390	970	2550	1280			
3.....				860	2950	1330	1380	2480	1260			
4.....				905	2900	1300	2290	2350	1240			
5.....				960	2840	1270	4210	2250	1200			
6.....				1040	2710	1260	4420	2220	1170			
7.....				1090	2710	1240	4700	2190	1160			
8.....				1180	2720	1220	4920	2140	1140			
9.....				1270	2710	1200	5080	2040	1120			
10.....				1320	2710	1190	4920	1970	1120			
11.....				1350	2680	1160	4700	1910	1120			
12.....				1340	2690	1140	4550	1950	1110			
13.....				1270	2680	1120	4490	2030	1100			
14.....				1270	2630	1100	4470	2000	1120			
15.....				1320	2570	1060	4380	1960	1130			
16.....				1410	2530	1020	4330	1940	1120			
17.....				1710	2490	995	4210	1940	1110			
18.....				2120	2480	980	4050	1910	1110			
19.....				2320	2380	965	3950	1880	1120			
20.....				2450	2280	950	3790	1860	1140			
21.....				2600	2210	935	3650	1840	1180			
22.....				2750	2140	895	3540	1810	1210			
23.....				2900	2080	910	3450	1780	1230			
24.....				3040	1980	920	3340	1730	1240			
25.....				3140	1900	910	3200	1650	1250			
26.....				3140	1840	910	3100	1600	1320			
27.....				3120	1740	890	3060	1530	1360			
28.....				3040	1650	870	3020	1470	1370			
29.....				2960	1580	845	2880	1420	1410			
30.....				2980	1520	855	2810	1410	1410			
31.....					1440		2730	1370				

RAINY LAKE INVESTIGATION

DAILY DISCHARGE IN SECOND-FEET—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1								952	515	418	344	326
2								920	489	415	344	326
3								897	489	420	348	326
4								878	485	423	344	326
5								856	478	412	340	326
6								847	463	398	338	326
7								834	449	398	338	324
8								816	438	395	340	324
9								799	431	390	338	323
10								786	421	375	338	323
11								786	417	368	340	321
12								786	417	364	340	321
13								781	417	370	340	327
14							1200	764	394	366	338	330
15							1150	722	478	364	336	329
16							1140	722	474	360	334	329
17							1100	702	463	352	334	329
18							1090	677	460	354	332	329
19							1090	657	453	348	332	330
20							1090	649	449	346	332	330
21							1100	645	442	334	332	330
22							1100	637	438	350	330	332
23							1050	621	431	348	330	332
24							1060	610	421	348	329	332
25							1050	590	411	346	326	332
26							1040	579	442	348	326	332
27							1030	564	478	348	326	334
28							1020	552	449	348	327	334
29							1020	489	428	346	327	334
30							1000	533	421	346	326	336
31							990	518	.....	346	.....	336
1921												
1	334	329	334	364	1760	2340	1230	940	700	935	777	629
2	336	327	334	368	1730	2390	1210	935	708	925	777	625
3	336	327	334	373	1710	2490	1160	925	684	920	765	621
4	338	327	334	380	1700	2550	1150	915	672	905	757	617
5	338	326	334	395	1660	2510	1120	910	664	895	745	617
6	340	327	334	473	1610	2490	1110	905	660	891	737	613
7	340	327	334	584	1560	2460	1060	905	644	877	733	605
8	340	327	334	915	1550	2410	1050	877	619	859	725	602
9	340	329	334	1310	1490	2350	1030	855	672	841	717	602
10	340	329	334	1580	1440	2340	995	855	688	832	709	598
11	338	329	334	1760	1420	2270	970	841	720	828	701	595
12	338	329	334	1910	1450	2210	970	846	748	819	697	595
13	338	329	334	1940	1550	2120	970	837	778	805	693	598
14	338	327	334	1980	1760	2060	970	823	823	793	685	602
15	338	327	334	2020	2020	1960	955	801	837	789	677	605
16	338	329	336	2000	2230	1950	930	769	841	781	673	605
17	340	330	336	1980	2470	1910	920	769	859	781	669	602
18	340	330	336	1950	2540	1860	915	765	873	781	665	598
19	340	332	336	1900	2570	1810	873	765	868	785	661	591
20	340	332	340	1880	2610	1760	864	744	868	801	657	588
21	340	332	342	1820	2630	1700	850	724	873	789	649	588
22	340	332	344	1760	2560	1650	846	704	895	814	641	588
23	340	332	344	1750	2510	1610	828	716	925	810	641	584
24	338	330	344	1780	2470	1550	823	708	940	805	641	584
25	338	330	344	1790	2400	1480	801	696	945	793	637	581
26	338	336	344	1810	2340	1470	769	704	950	789	637	577
27	336	336	346	1820	2340	1410	823	712	985	785	629	574
28	336	336	348	1820	2340	1370	850	720	1000	785	625	570
29	334	.....	352	1810	2320	1310	895	732	975	785	629	567
30	334	.....	360	1790	2340	1260	935	724	985	785	629	567
31	332	.....	362	.....	2370	.....	945	704	.....	785	.....	563

Ice conditions Nov. 10, 1920, to April 22, 1921, inclusive; Nov. 8, 1921, to Dec. 31, 1921, inclusive.

DAILY DISCHARGE IN SECOND-FEET—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued  
 RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	556	505	472	484	3510	2250	1120	850	713	621	435	645
2	553	514	472	487	3490	2170	1110	841	745	617	457	637
3	553	517	469	487	3490	2080	1080	832	745	594	475	621
4	549	517	466	490	3510	1990	1040	814	745	584	481	625
5	549	517	463	490	3490	1920	1040	810	749	570	481	629
6	549	514	466	502	3450	1860	1030	823	749	570	496	625
7	549	511	466	529	3380	1800	1000	828	765	563	549	625
8	546	508	463	613	3300	1800	985	823	765	556	570	621
9	546	505	463	661	3340	1790	980	810	781	552	605	621
10	542	505	460	761	3390	1730	970	805	777	545	605	613
11	535	502	457	891	3500	1740	955	793	769	539	641	609
12	529	502	457	1030	3490	1660	950	789	769	523	673	605
13	526	499	457	1130	3480	1620	945	789	773	508	689	601
14	526	496	457	1240	3390	1560	935	781	765	505	705	594
15	526	496	457	1300	3320	1490	930	773	765	493	717	594
16	526	493	460	1470	3260	1490	930	765	761	487	721	594
17	526	490	460	1840	3150	1500	925	769	753	481	725	591
18	523	487	460	2280	3140	1520	900	769	757	472	713	587
19	523	487	460	2700	3180	1530	882	753	757	469	705	584
20	526	487	463	2950	3220	1510	868	745	745	466	705	580
21	526	487	460	3020	3170	1480	837	769	737	463	709	580
22	526	484	460	3140	3120	1440	873	769	729	460	705	584
23	523	484	460	3130	3040	1370	873	773	725	454	697	584
24	520	484	460	3140	2950	1310	873	781	709	448	689	584
25	517	481	457	3330	2880	1330	868	793	693	445	677	584
26	514	478	460	3450	2790	1270	868	785	685	437	661	584
27	511	478	469	3490	2680	1240	868	769	677	432	653	584
28	508	475	484	3530	2600	1210	864	765	657	427	649	580
29	505	475	487	3540	2530	1180	855	749	645	422	645	580
30	502	475	487	3540	2420	1150	855	737	633	422	645	580
31	499	475	487	.....	2340	.....	859	725	.....	427	.....	580
1923												
1	580	567	520	523	4490	1730	1080	960	935	669	574	475
2	580	567	520	529	4470	1680	1030	970	930	661	566	472
3	577	563	523	529	4470	1640	1000	965	925	653	563	466
4	577	560	520	526	4470	1610	970	965	905	645	566	460
5	577	556	517	526	4410	1540	935	965	877	641	563	454
6	573	552	514	523	4310	1490	925	970	873	625	560	451
7	570	549	511	520	4160	1440	900	965	859	613	553	445
8	573	545	508	520	4000	1430	910	960	846	605	549	440
9	573	542	505	517	3870	1400	945	950	828	595	542	438
10	573	535	505	514	3730	1360	955	965	809	609	542	438
11	577	535	502	508	3580	1310	1000	985	805	602	535	435
12	580	535	508	511	3440	1280	1020	995	793	602	529	435
13	584	535	517	511	3290	1260	1030	975	781	598	523	433
14	584	532	514	508	3130	1220	1070	970	761	598	520	428
15	587	532	511	508	3030	1200	1060	965	741	591	520	425
16	587	532	511	511	2900	1170	1040	960	729	588	523	423
17	587	532	511	517	2820	1130	1030	960	733	588	526	420
18	587	532	508	529	2710	1080	1020	960	757	609	523	418
19	587	532	511	587	2590	1060	1010	960	749	637	520	415
20	587	529	514	769	2560	985	995	955	745	629	523	415
21	584	526	517	1210	2460	1030	980	950	737	617	520	413
22	584	523	514	1710	2380	1120	975	940	729	605	514	413
23	580	520	511	2430	2250	1140	975	935	725	602	511	409
24	577	520	511	3040	2190	1200	970	925	717	598	508	405
25	573	520	508	3650	2130	1240	965	910	705	591	496	400
26	573	520	505	4100	2060	1240	950	895	701	598	490	403
27	570	520	502	4360	1990	1240	935	877	697	591	484	400
28	570	520	508	4550	1940	1220	925	873	689	591	484	400
29	570	520	517	4610	1890	1160	920	868	685	598	481	398
30	570	520	520	4640	1820	1120	930	859	677	598	478	395
31	570	520	523	.....	1760	.....	920	955	.....	591	.....	393

Ice conditions Jan. 1, 1922, to April 24, 1922, inclusive; Nov. 20, 1922, to May 2, 1923, inclusive.

DAILY DISCHARGES IN SECOND-FEET—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	393	373	351	337	2360	1280	1030	753	905	574	559	402
2	391	373	349	337	2350	1250	1010	733	1000	574	539	402
3	391	371	347	337	2260	1220	970	749	1010	574	529	402
4	389	371	345	337	2200	1200	945	737	995	577	508	398
5	389	371	345	339	2090	1180	910	741	990	584	478	393
6	387	369	347	339	1990	1190	886	733	955	598	460	389
7	385	369	347	339	1920	1240	868	717	920	594	448	387
8	383	369	347	357	1800	1240	855	705	891	598	445	385
9	381	369	349	365	1740	1250	859	693	859	587	442	389
10	381	367	349	379	1710	1300	859	693	801	613	442	387
11	381	367	349	381	1640	1310	841	697	769	588	442	385
12	381	367	347	387	1570	1330	846	685	745	602	445	387
13	379	365	347	393	1540	1300	837	669	733	617	442	387
14	379	365	345	405	1560	1270	828	685	705	613	442	387
15	379	365	345	418	1610	1240	810	689	673	613	440	389
16	377	363	345	454	1610	1200	793	681	653	613	440	389
17	377	363	345	478	1640	1220	773	717	625	613	437	387
18	377	361	343	526	1630	1210	761	701	595	613	435	387
19	375	361	343	560	1620	1230	741	693	577	617	430	385
20	375	361	341	595	1610	1340	733	693	560	621	427	383
21	375	359	339	637	1610	1360	761	745	560	602	425	381
22	373	359	339	685	1610	1360	745	814	588	587	423	381
23	371	359	339	745	1570	1340	733	823	577	577	423	381
24	375	357	337	864	1540	1300	733	819	574	567	420	379
25	375	357	337	1250	1470	1280	729	814	574	559	440	379
26	373	355	337	1570	1420	1240	721	832	563	552	413	379
27	375	353	339	1890	1400	1190	725	828	577	539	410	377
28	377	351	339	2120	1370	1130	749	828	595	526	405	377
29	375	353	337	2240	1340	1100	749	868	588	520	402	375
30	373	353	337	2350	1320	1090	745	920	577	514	402	371
31	373	353	337	.....	1300	.....	757	980	.....	535	.....	369
1925												
1	377	.....	.....	395	2730	1130	1800	1250	810	661	617	508
2	377	.....	.....	435	2740	1176	1760	1230	801	677	625	502
3	375	.....	.....	481	2740	1190	1790	1210	793	681	609	496
4	371	.....	.....	542	2750	1210	1772	1160	769	701	602	487
5	369	.....	.....	605	2760	1270	1700	1150	733	701	567	475
6	369	.....	.....	661	2510	1310	1660	1120	721	713	573	475
7	365	.....	.....	781	2480	1380	1640	1100	705	713	573	475
8	363	.....	.....	1210	2480	1470	1620	1070	693	713	573	475
9	361	.....	.....	1520	2480	1450	1610	1050	681	729	573	475
10	357	.....	.....	1590	2420	1740	1530	1020	689	729	573	475
11	355	.....	.....	1920	2300	1810	1500	980	688	729	573	475
12	355	.....	.....	1960	2250	1870	1470	1000	665	729	570	475
13	355	.....	.....	2020	2160	1920	1420	1020	653	713	573	475
14	353	.....	.....	2100	2080	2060	1390	1950	645	713	573	457
15	353	347	.....	2120	2080	2070	1420	930	653	713	573	454
16	351	.....	.....	2140	2040	2050	1460	950	661	713	570	451
17	351	.....	.....	1740	2030	2040	1470	960	665	697	560	445
18	351	.....	.....	1810	1890	2030	1490	990	621	689	560	443
19	353	.....	.....	1810	1770	2130	1470	1000	609	673	560	438
20	353	.....	.....	1810	1660	2210	1490	990	649	673	560	438
21	351	.....	.....	1810	1560	2200	1490	975	673	673	560	432
22	351	.....	355	1810	1470	2200	1500	975	689	657	556	432
23	351	.....	355	1810	1360	2230	1490	1000	677	649	556	428
24	351	.....	357	2390	1340	2250	1450	915	665	641	556	428
25	349	.....	359	2420	1300	2210	1450	900	665	633	556	425
26	347	.....	363	2433	1250	2230	1430	881	665	633	556	425
27	347	.....	367	2450	1250	2210	1350	832	649	625	549	425
28	347	.....	375	2460	1240	2150	1330	855	663	617	546	425
29	345	.....	377	2620	1120	2000	1320	859	609	609	539	418
30	345	.....	381	2710	1180	1740	1300	872	601	609	520	413
31	345	.....	385	.....	1150	.....	1270	814	.....	609	.....	408

Ice conditions from Nov. 20, 1925, to May 5, 1926, inclusive.

## DAILY DISCHARGES IN SECOND-FEET—TURTLE RIVER—NEAR MINE CENTRE, ONT.—Concluded

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1	403	371	361	371	1290	1190	2700		1320	2120	2110	1400
2	400	371	361	371	1320	1190	2630		1340	2180	2090	1400
3	395	371	363	371	1360	1210	2400		1350	2210	2080	1400
4	395	371	363	371	1420	1200	2450		1380	2310	2080	1330
5	395	371	363	371	1400	1180	2430		1470	2330	2080	1330
6	395	371	363	371	1360	1160	2410		1480	2620	2070	1330
7	395	371	363	367	1390	1150	2410		1480	2690	2070	1330
8	393	371	367	369	1360	1130	2400		1520	2730	2060	1270
9	391	371	369	371	1340	1100	2380		1560	2730	2080	1270
10	391	371	367	373	1300	1090	2380		1560	2720	2060	1270
11	391	371	365	375	1280	1070	2400		1560	2700	2050	1260
12	391	369	363	381	1270	1040	2400		1540	2690	2040	1260
13	391	371	363	381	1240	1030	2410		1520	2670	2020	1260
14	391	371	363	381	1220	1030	2470		1480	2600	2020	1310
15	389	371	363	408	1210	1030	2490		1470	2600	1900	1250
16	389	371	365	425	1170	1030	2470		1450	2650	1830	1310
17	389	371	363	451	1160	1030	2490		1430	2620	1750	1310
18	389	371	363	484	1150	1020	2390	1300	1420	2600	1750	1310
19	389	367	363	511	1130	1020	2330	1520	1420	2580	1750	1250
20	387	365	361	556	1090	1010		1360	1420	2560	1680	1240
21	385	365	361	669	1060	1630		1490	1420	2530	1680	1180
22	385	363	361	745	1060	2670		1420	1420	2520	1610	1180
23	383	361	361	805	1100	2750		1390	1420	2500	1610	1180
24	381	361	361	846	1130	2810		1360	1450	2420	1540	1120
25	379	361	361	891	1160	2870		1330	1480	2370	1470	1120
26	377	361	361	905	1170	2780		1300	1610	2350	1470	1170
27	377	361	361	970	1200	2740		1300	1850	2350	1470	1170
28	377	361	367	1030	1190	2720		1300	1930	2340	1400	1100
29	377		367	1130	1180	2710		1300	2000	2170	1400	1100
30	377		369	1170	1180	2700		1310	2060	2140	1400	1100
31	375		371		1180			1310		2130		1100
1927												
1	1010	945	665	697	5580	6670	7100	4160	1820	1400	1290	895
2	1010	945	661	705	5580	6300	7330	3670	1840	1420	1320	890
3	1010	940	653	713	5610	6210	7270	3380	1850	1480	1330	886
4	1000	930	653	793	6140	6110	7060	3290	1850	1590	1290	886
5	1000	930	649	864	6300	5830	7010	3270	1840	1610	1280	935
6	1000	910	649	895	6420	5570	7180	3180	1860	1630	1260	877
7	1000	882	645	910	6610	5270	7450	3100	1850	1630	1230	855
8	1000	873	645	945	6860	5060	7730	3050	1840	1660	1230	845
9	995	873	641	980	7110	5060	7780	3000	1830	1630	1210	805
10	995	864	637	1010	7950	4990	8150	2870	1800	1630	1210	797
11	995	859	637	1020	7490	4890	8290	2750	1700	1620	1210	793
12	995	855	633	1130	7610	4740	8370	2700	1710	1620	1210	793
13	1000	846	633	1290	7690	4590	8470	2690	1840	1620	1150	785
14	1000	823	637	1470	7730	4420	8580	2590	1850	1620	1100	781
15	995	773	653	1740	7780	4360	8640	2420	1850	1620	1090	777
16	995	741	673	2300	7810	4180	8110	2380	1810	1610	1060	757
17	995	737	681	2360	7910	4030	7580	2250	1770	1610	1029	753
18	995	737	697	2500	7950	4010	7050	2250	1830	1600	1020	753
19	990	725	705	2740	7690	4000	6520	2250	1700	1590	1020	745
20	990	705	701	3200	7520	4000	5970	2090	1690	1520	1020	745
21	990	701	697	3510	7300	4090	5940	2000	1680	1490	1010	745
22	985	693	697	3830	7760	4890	5910	1900	1660	1490	985	745
23	985	693	665	3990	7690	5580	5880	1920	1630	1460	980	745
24	985	685	665	3970	7670	5890	5610	1910	1550	1430	965	741
25	985	685	669	5900	7670	6320	5090	1910	1490	1400	950	741
26	975	681	673	5750	7570	6850	5020	1910	1430	1350	940	733
27	975	678	673	5610	7570	6750	4710	1830	1420	1280	930	733
28	965	678	681	5600	7570	6740	4570	1870	1350	1250	930	741
29	960		681	5600	7400	6770	4360	1770	1340	1230	925	789
30	960		685	5650	6930	6930	4290	1770	1340	1240	925	785
31	955		689		6700		4250	1740		1270		789

SUMMARY OF MEAN MONTHLY DISCHARGE IN SECOND-FEET, OF TURTLE RIVER—  
NEAR MINE CENTRE, ONT.

Month	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Jan.....		181		501	143			338	529	578	380	356	388	990
Feb.....		188		433	82			330	497	537	364	347 <sup>e</sup>	368	800
Mar.....		218		473	116			339	465	512	343	357 <sup>e</sup>	364	665
April.....		506		956	875	1880		1470	1850	1500	747	1690	574	2590
May.....		1330		2030	1590	2380		2050	3160	3070	1690	1950	1230	7200
June.....		2040	4840	1110	1780	1070		1970	1600	1290	1250	1830	1610	5370
July.....		2360	3190	717	1360	3600		962	938	980	816	1510	2300 <sup>e</sup>	6690
Aug.....		1400	1700	755	1410	1930	715	801	786	945	756	1000	1500 <sup>e</sup>	2510
Sept.....		658	1770	1210	1030	1210	448	812	735	782	727	682	1530	1700
Oct.....		699	1610	970	942		369	825	502	611	583	678	2480	1500
Nov.....	1030		1130	842			335	686	629	526	446	568	1820	1100
Dec.....	404		648	374			329	595	600	426	385	453	1250	786

RAINY LAKE—STORAGE OUTFLOW AND INFLOW

Supply factors for Rainy lake as set forth in the following tables have been compiled by the Lake of the Woods Control Board from records furnished by the Department of Public Works, Canada.

*Records available.*—October 25, 1905, to September 30, 1925.

*Storage.*—Rainy Lake area taken as 345 square miles. Changes in storage based on gauge records at Ranier.

*Outflow.*—Daily records of total outflow based on discharge rating of turbines and sluices in Minnesota and Ontario Power plant at lake outlet.

*Inflow.*—Ten-day and monthly mean inflows computed from mean outflow with the addition or subtraction of flow equivalent to recorded change in storage.

*Regulation.*—Lake level and outflow regulated by Department of Public Works, Canada, through the operation of the Minnesota and Ontario Power Company's dam at International Falls. Inflow to Rainy lake from Namakan lake controlled by the dam at the outlet of Namakan lake.



## DISCHARGE MEASUREMENTS—RAINY RIVER—INTERNATIONAL FALLS AND FORT FRANCES

## RECORDS OF DEPARTMENTS OF BOTH GOVERNMENTS, ETC., AS INDICATED

[Referred to Dept. of Public Works (Canada) Datum]

Date	Hydrographer	Width Feet	Area Sq. ft.	Mean velocity Ft. per sec.	Elevation of Water Surface U.S. Dock		Dis- charge c. f. s.	Notes
					U.S.G.S. Gauge ht.	D. P. W. Datum		
1900 Sept. 5	J. T. and R. B. Fanning					463.2 *486.85	3431	(1)
1904 June 14	Koochiching Power Co.					*490.15	10765	(2)
1905 Oct. 25	Acres—Ont. Hyd. Comm.	577	9034	1.57		*491.75	14145	(3)
1906 April 1	Acres—Ont. Hyd. Comm.	493	6704	1.01		*488.5	6805	(3)
1908 Sept. 21	Ash—Minn. and Ont. Power Co.					†466.2 *490.6	12170	(4)
Oct. 10	" "					†465.9 *490.1	11270	(5)
1909 Sept. 29	Gray—U. S. Geol. Survey	520	7310	1.17		†464.74	8560	(3)
Nov. 27	Adams—U. S. Geol. Survey	466	6390	0.81		†462.69	5190	(3)
1910 April 6	Gray—U. S. Geol. Survey	564	8300	1.37		†466.49	11400	(3)
June 23	Adams—U. S. Geol. Survey	523	7410	1.43		†465.51	10600	(3)
Sept. 27	—Ont. Hyd. Comm.		6134	0.85		462.4	5229	(6)
1911 May 20	Johnson—Dept. Public Works, Canada	754	4192	1.40		462.90	5874	(7)
June 7	Follansbee—U. S. Geol. Survey	486	7033	0.96		2.68 463.44	6720	
July 14	Soulé—U. S. Geol. Survey	429	3250	1.23		0.70 461.46	4010	(8)
Aug. 12	Johnson—Dept. Public Works, Canada	762	4520	1.44		2.73 463.49	6510	
28	" "	752	4177	1.60		2.31 463.07	6680	
Sept. 19	Anderson—Dept. Public Works, Canada		4870	1.22		2.02 462.78	5910	
Nov. 8	" "		3462	1.50		1.31 462.07	5210	
Dec. 5	" "		4810	1.23		3.14 463.90	5893	
1912 Jan. 20	Soulé—U. S. Geol. Survey	733	5400	1.13		3.99 464.75	6090	(9)
Feb. 16	Anderson—Dept. Public Works, Canada	772	4920	1.15		3.18 463.44	5683	
Mar. 13	Stewart—Dept. Public Works, Canada	773	4503	1.12		2.72 463.48	5035	
May 7	" "	786	5151	1.35		3.38 464.14	6981	(10)
June 1	" "	790	4578	1.46		2.62 463.38	6680	
13	Soulé—U. S. Geol. Survey	780	4490	1.31		2.26 463.05	5880	
July 23	Stewart—Dept. Public Works, Canada	765	5312	1.67		3.77 464.56	8875	
Aug. 5	Scovil—Man. Hyd. Survey	770	5764	1.57		4.16 464.95	9077	
7	Hoyt and Soulé—U. S. Geol. Survey	780	5980	1.67		4.46 465.25	9960	
Sept. 9	Pirie—Man. Hyd. Survey	762	5036	1.53		3.33 464.12	7705	
19	Stewart—Dept. Public Works, Canada	757	4448	1.45		2.65 463.44	6439	
Nov. 6	Nelson—Man. Hyd. Survey	761	4537	1.41		2.89 463.68	6420	
1913 Jan. 12	Pirie—Man. Hyd. Survey	760	5058	0.96		3.48 464.27	4850	
Feb. 20	Brown—Dept. Public Works, Canada	770	5849	1.19		4.77 465.56	6937	
Mar. 8	" "	771	5976	1.12		4.87 465.66	6672	
20	" "	767	5706	1.18		4.59 465.38	6734	
April 2	Brown and Jamieson—Dept. Public Works, Canada	771	5045	1.19		3.21 464.00	6016	
May 22	Jamieson—Dept. Public Works, Canada	773	5900	1.20		4.55 465.34	7079	
June 13	Brown—Dept. Public Works, Canada	784				4.14 464.93	8185	
July 23	Brown and Jamieson—Dept. Public Works, Canada	809	8033	1.60		7.33 468.12	12818	(11)
25	Peterson—Int. Joint Comm.	635	9674	1.40		7.17 467.96	13600	(12)
Aug. 8	" "	777	6340	1.58		4.78 465.57	10940	(13)
9	" "	781	6480	1.56		5.00 465.79	10990	(14)
28	Brown and Jamieson—Dept. Public Works, Canada	772	5024	1.56		3.02 463.81	7854	



RELATION BETWEEN GAUGE HEIGHTS AT U.S. DOCK AND RATES OF DISCHARGE RAINY  
RIVER AT INTERNATIONAL FALLS AND FORT FRANCES  
NO BACKWATER AT GAUGE

Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence
Feet	c.f.s.	c.f.s.	Feet	c.f.s.	c.f.s.	Feet	c.f.s.	c.f.s.	Feet	c.f.s.	c.f.s.
458-10	1290	60	461-60	4320	120	465-10	9680	200	468-60	17115	223
458-20	1350	60	461-70	4350	120	465-20	9880	200	468-70	17335	223
458-30	1410	60	461-80	4470	120	465-30	10080	200	468-80	17560	223
458-40	1470	60	461-90	4590	125	465-40	10280	200	468-90	17785	223
458-50	1530	60	462-00	4715	125	465-50	10480	200	469-00	18010	225
458-60	1590	65	462-10	4840	130	465-60	10680	200	469-10	18235	225
458-70	1655	65	462-20	4970	135	465-70	10880	200	469-20	18460	225
458-80	1720	65	462-30	5105	135	465-80	11080	200	469-30	18685	225
458-90	1785	65	462-40	5240	140	465-90	11280	200	469-40	18910	225
459-00	1850	70	462-50	5380	140	466-00	11480	205	469-50	19135	225
459-10	1920	70	462-60	5520	140	466-10	11685	205	469-60	19360	225
459-20	1990	70	462-80	5660	140	466-20	11890	205	469-70	19585	225
459-30	2060	70	462-80	5800	150	466-30	12095	205	469-80	19810	225
459-40	2130	75	462-90	5950	150	466-40	12300	210	469-90	20035	225
459-50	2205	75	463-00	6100	150	466-50	12510	210	470-00	20260	226
459-60	2280	80	463-10	6250	150	466-60	12720	215	470-10	20485	226
459-70	2360	80	463-20	6400	155	466-70	12935	215	470-20	20710	226
459-80	2440	80	463-30	6555	155	466-80	13150	215	470-30	20940	226
459-90	2520	80	463-40	6710	155	466-90	13365	215	470-40	21165	226
460-00	2600	90	463-50	6865	155	467-00	13580	220	470-50	21390	226
460-10	2690	90	463-60	7020	160	467-10	13800	220	470-60	21620	226
460-20	2780	90	463-70	7180	160	467-20	14020	220	470-70	21845	226
460-30	2870	90	463-80	7340	165	467-30	14240	220	470-80	22070	226
460-40	2960	95	463-90	7505	165	467-40	14460	220	470-90	22295	226
460-50	3055	95	464-00	7670	170	467-50	14680	220	471-00	22520	226
460-60	3150	100	464-10	7840	170	467-60	14900	220	471-10	22745	226
460-70	3250	100	464-20	8010	180	467-70	15120	220	471-20	22970	226
460-80	3350	100	464-30	8190	180	467-80	15340	220	471-30	23200	226
460-90	3450	100	464-40	8370	180	467-90	15560	220	471-40	23425	226
461-00	3550	110	464-50	8550	180	468-00	15780	223	471-50	23650	226
461-10	3660	110	464-60	8730	185	468-10	16000	223	471-60	23875	226
461-20	3770	115	464-70	8915	185	468-20	16225	223	471-70	24100	226
461-30	3885	115	464-80	9100	190	468-30	16445	223	471-80	24330	226
461-40	4000	115	464-90	9290	190	468-40	16670	223	471-90	24555	226
461-50	4115	115	465-00	9480	200	468-50	16890	223	472-00	24780	226

RELATION BETWEEN LAKE STAGE AND OUTFLOW—RAINY LAKE  
MEAN RELATIONSHIP ADOPTED FOR STATE OF NATURE

Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence	Gauge height	Dis-charge	Differ-ence
Feet	c.f.s.	c.f.s.	Feet	c.f.s.	c.f.s.	Feet	c.f.s.	c.f.s.	Feet	c.f.s.	c.f.s.
486-10	2360	70	489-10	5400	150	492-10	11430	225	495-10	18330	240
486-20	2430	75	489-20	5550	150	492-20	11655	225	495-20	18570	240
486-30	2505	75	489-30	5700	155	492-30	11880	225	495-30	18810	240
486-40	2580	75	489-40	5855	160	492-40	12105	225	495-40	19050	240
486-50	2655	75	489-50	6015	165	492-50	12330	225	495-50	19290	240
486-60	2730	75	489-60	6180	170	492-60	12555	225	495-60	19530	240
486-70	2805	75	489-70	6350	175	492-70	12780	225	495-70	19770	240
486-80	2880	80	489-80	6525	180	492-80	13005	225	495-80	20010	240
486-90	2960	85	489-90	6705	185	492-90	13230	230	495-90	20250	240
487-00	3045	85	490-00	6890	190	493-00	13460	230	496-00	20490	240
487-10	3130	90	490-10	7080	95	493-10	13690	230	496-10	20730	240
487-20	3220	90	490-20	7275	200	493-20	13920	230	496-20	20970	240
487-30	3310	90	490-30	7475	205	493-30	14150	230	496-30	21210	240
487-40	3400	95	490-40	7680	210	493-40	14380	230	496-40	21450	240
487-50	3495	95	490-50	7890	215	493-50	14610	230	496-50	21690	240
487-60	3590	100	490-60	8105	215	493-60	14840	230	496-60	21930	240
487-70	3690	100	490-70	8320	215	493-70	15070	230	496-70	22170	240
487-80	3790	105	490-80	8535	215	493-80	15300	230	496-80	22410	240
487-90	3895	105	490-90	8750	225	493-90	15530	230	496-90	22650	240
488-00	4000	110	491-00	8970	220	494-00	15760	230	497-00	22890	240
488-10	4110	115	491-10	9190	220	494-10	15990	230	497-10	23130	240
488-20	4225	115	491-20	9410	220	494-20	16220	230	497-20	23370	240
488-30	4340	120	491-30	9630	225	494-30	16450	230	497-30	23610	240
488-40	4460	125	491-40	9855	225	494-40	16680	235	497-40	23850	240
488-50	4585	125	491-50	10080	225	494-50	16915	235	497-50	24090	240
488-60	4710	130	491-60	10305	225	494-60	17150	235	497-60	24330	240
488-70	4840	135	491-70	10530	225	494-70	17385	235	497-70	24570	240
488-80	4975	140	491-80	10755	225	494-80	17620	235	497-80	24810	240
488-90	5115	140	491-90	10980	225	494-90	17855	235	497-90	25050	240
489-00	5255	145	492-00	11205	225	495-00	18090	240	498-00	25290	240

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY LAKE—RANIER, MINN.

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1									493-56	493-20	492-92	492-58
2									493-55	493-20	492-82	492-56
3									493-53	493-20	492-82	492-54
4									493-53	493-20	492-85	492-52
5									493-53	493-20	492-86	492-51
6									493-52	493-20	492-86	492-50
7									493-50	493-20	492-82	492-50
8									493-48	493-20	492-83	492-50
9									493-43	493-20	492-79	492-50
10									493-44	493-20	492-70	492-48
11									493-40	493-20		492-46
12									493-40	493-20	492-64	492-44
13									493-39	493-20	492-71	492-42
14									493-35	493-20	492-76	492-40
15									493-35	493-18	492-80	492-38
16									493-35	493-18	492-80	492-36
17									493-34	493-18	492-80	492-35
18									493-26	493-16	492-80	492-35
19									493-20	493-13	492-80	492-33
20								493-60	493-20	493-12	492-76	492-31
21									493-64	493-29	493-12	492-74
22									493-59	493-29	493-12	492-73
23									493-55	493-29	493-09	492-72
24									493-52	493-26	493-08	492-71
25									493-52	493-24	493-05	492-70
26									493-54	493-20	493-03	492-68
27									493-60	493-20	493-00	492-66
28									493-61	493-20	492-89	492-64
29									493-60	493-21	492-92	492-62
30									493-61	493-20	492-92	492-60
31									493-60		492-92	492-14
1912												
1	492-12	491-36	490-74	489-91	490-42	492-92	495-46	496-38	496-34	496-28	496-04	495-45
2	492-10	491-32	490-72	489-87	490-48	493-06	495-50	496-34	496-33	496-26	496-02	495-45
3	492-08	491-30	490-70	489-83	490-56	493-12	495-56	496-31	496-36	496-26	496-01	495-45
4	492-06	491-28	490-68	489-81	490-61	493-24	495-62	496-29	496-37	496-27	496-00	495-41
5	492-04	491-26	490-64	489-80	490-72	493-34	495-66	496-30	496-38	496-27	495-98	495-38
6	492-02	491-24	490-62	489-78	490-75	493-42	495-68	496-32	496-39	496-25	495-98	495-35
7	492-00	491-22	490-59	489-78	490-77	493-54	495-78	496-31	496-34	496-26	495-96	495-33
8	491-98	491-20	490-56	489-80	490-80	493-62	495-83	496-29	496-41	496-27	495-86	495-31
9	491-96	491-20	490-54	489-75	491-01	493-72	495-86	496-28	496-32		495-92	495-28
10	491-94	491-19	490-52	489-75	491-08	493-81	495-88	496-26	496-30		495-90	495-25
11	491-92	491-18	490-50	489-75	491-16	493-92	495-91	496-24	496-29		495-90	495-22
12	491-90	491-18	490-48	489-75	491-24	494-00	495-98	496-18	496-28		495-89	495-19
13	491-88	491-16	490-45	489-76	491-31	494-05	496-02	496-15	496-28		495-88	495-16
14	491-86	491-12	490-41	489-78	491-37	494-12	496-03	496-20	496-26		495-84	495-12
15	491-84	491-10	490-37	489-78	491-46	494-22	496-02	496-20	496-27	496-25	495-81	495-10
16	491-81	491-08	490-33	489-82	491-55	494-28	496-06	496-22	496-25	496-23	495-77	495-09
17	491-76	491-06	490-31	489-87	491-58	494-40	496-08	496-27	496-24	496-25	495-75	495-08
18	491-73	491-05	490-30	489-90	491-66	494-51	496-08	496-24	496-20	496-19	495-73	495-06
19	491-69	491-04	490-27	489-91	491-80	494-58	496-09	496-23	496-21	496-20	495-73	495-04
20	491-64	491-03	490-23	489-91	491-88	494-65	496-16	496-22	496-16	496-24	495-72	495-02
21	491-63	491-02	490-20	489-93	491-96	494-72	496-19	496-19	496-40	496-17	495-65	495-00
22	491-62	491-00	490-18	489-96	492-02	494-78	496-24	496-20	496-09	496-16	495-65	494-98
23	491-60	490-98	490-16	489-97	492-10	494-84	496-28	496-22	496-11	496-16	495-65	494-96
24	491-56	490-96	490-14	489-99	492-22	494-90	496-28	496-27		496-12	495-62	494-95
25	491-54	490-91	490-11	490-03	492-26	495-00	496-28	496-27		496-10	495-59	494-93
26	491-50	490-86	490-07	490-10	492-42	495-06	496-29	496-27	496-24	496-09	495-56	494-91
27	491-48	490-81	490-03	490-19	492-55	495-14	496-29	496-26	496-26	496-08	495-53	494-89
28	491-45	490-78	490-00	490-22	492-66	495-19	496-40	496-30	496-26	496-08	495-49	494-87
29	491-42	490-76	489-98	490-29	492-71	495-27	496-39	496-31	496-25	496-06	495-42	494-85
30	491-40		489-96	490-36	492-76	495-42	496-38	496-33	496-27	496-05	495-44	494-85
31	491-38		489-93		492-81		496-38	496-33		496-05		494-83

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## WATER LEVELS—RAINY LAKE—RANIER, MINN.—Concluded

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	494.81	493.98	493.00	491.93	492.15	494.45	497.12	497.35	497.38	496.95	496.76	496.59
2	494.78	493.95	492.98	491.90	492.19	494.57	497.19	497.35	497.34	496.96	496.76	496.54
3	494.75	493.91	492.95	491.87	492.22	494.72	497.13	497.39	497.34	496.99	496.76	496.51
4	494.72	493.88	492.92	491.84	492.25	494.82	497.18	497.37	497.34	497.01	496.76	496.53
5	494.70	493.84	492.87	491.80	492.31	494.99	497.20	497.39	497.29	497.08	496.76	496.55
6	494.69	493.80	492.82	491.77	492.37	495.12	497.32	497.40	497.32	497.07	496.76	
7	494.67	493.77	492.75	491.75	492.39	495.25	497.35	497.35	497.34	496.97	496.76	
8	494.65	493.73	492.70	491.74	492.42	495.40	497.35	497.35	497.33	496.96	496.76	
9	494.63	493.70	492.68	491.68	492.47	495.52	497.37	497.42	497.32	496.98	496.76	
10	494.61	493.66	492.66	491.65	492.51	495.64	497.37	497.46	497.29	496.97	496.76	
11	494.59	493.62	492.63	491.65	492.56	495.76	497.35	497.37	497.32	496.99	496.76	496.07
12	494.59	493.60	492.60	491.64	492.62	495.89	497.45	497.33	497.31	497.05	496.76	496.03
13	494.57	493.56	492.57	491.64	492.66	496.02	497.45	497.33	497.26	497.04	496.76	496.03
14	494.53	493.52	492.53	491.68	492.70	496.11	497.47	497.33	497.24	497.04	496.76	496.03
15	494.46	493.49	492.50	491.69	492.76	496.20	497.42	497.42	497.21	497.03	496.76	496.00
16	494.43	493.46	492.45	491.71	492.83	496.29	497.45	497.35	497.21	497.00	496.69	495.91
17	494.41	493.42	492.42	491.75	492.71	496.37	497.42	497.40	497.10	496.98	496.67	495.91
18	494.39	493.37	492.38	491.79	492.98	496.49	497.41	497.37	497.15	496.95	496.66	495.91
19	494.38	493.33	492.35	491.81	493.05	496.56	497.40	497.34	497.14	496.97	496.66	495.82
20	494.36	493.27	492.32	491.82	493.11	496.63	497.38	497.33	497.15	496.95	496.65	495.84
21	494.31	493.23	492.30	491.84	493.20	496.69	497.37	497.26	497.12	496.95	496.65	
22	494.27	493.20	492.27	491.86	493.32	496.73	497.40	497.29	497.11	496.97	496.65	
23	494.23	493.18	492.25	491.89	493.42	496.78		497.26	497.09	496.95	496.64	
24	494.19	493.15	492.21	491.94	493.51	496.85	497.37	497.32	497.09	496.96	496.63	
25	494.17	493.13	492.18	491.97	493.61	496.91	497.34	497.28	497.05	497.00	496.62	
26	494.15	493.10	492.14	492.00	493.68	496.96	497.35	497.26	497.04	496.97	496.62	
27	494.13	493.07	492.10	492.05	493.77	497.04	497.31	497.28	496.99	496.93	496.58	
28	494.09	493.04	492.06	492.10	493.87	497.06	497.31	497.23	497.00	496.88	496.57	
29	494.06		492.03	492.11	493.97	497.05	497.29	497.28	497.00	496.83	496.57	
30	494.04		492.00	492.12	494.11	497.06	497.26	497.31	496.98	496.85	496.62	
31	494.02		491.96		494.22		497.20	497.45		496.83		
1914												
1		495.00	494.18	492.97	492.70	494.50	496.65	497.20	496.60	496.60	496.50	495.45
2		495.11	494.10	492.93	492.75	494.53	496.73	497.20	496.50	496.55	496.40	495.45
3		494.80	494.06	492.90	492.90	494.70	496.73	497.20	496.50	496.60	496.30	495.45
4		494.91	494.04	492.87	492.88	494.65	496.87	497.15	496.50	496.60	496.25	495.40
5		494.85	493.98	492.92	492.90	494.68	496.97	497.00	496.60	496.60	496.30	495.40
6	495.45	494.85	493.97	492.80	492.95	494.70	496.90	497.00	496.65	496.60	496.25	495.40
7	495.44	494.84	493.90	492.76	493.00	494.75	496.97	497.00	496.65	496.60	496.20	495.40
8	495.44	494.86	493.97	492.74	493.05	494.80	496.98	497.10	496.55	496.60	496.25	495.30
9	495.81	494.82	493.86	492.67	493.07	494.95	497.00	497.20	496.50	496.60	496.20	495.25
10	495.40	494.72	493.86	492.63	493.17	495.10	497.00	497.10	496.50	496.60	496.10	495.20
11	495.68	494.72	493.77	492.55	493.18	495.20	497.20	497.10	496.50	496.60	496.10	495.20
12	495.73	494.70	493.72	492.62	493.20	495.25	497.30	497.00	496.45	496.65	496.10	495.10
13	495.68	494.65	493.68	492.50	493.25	495.30	497.25	496.95	496.50	496.60	496.05	495.10
14	495.65	494.60	493.65	492.48	493.27	495.40	497.30	496.90	496.50	496.65	496.00	495.05
15	495.62	494.64	493.68	492.44	493.28	495.50	497.30	497.00	496.50	496.60	496.05	495.00
16	495.60	494.56	493.63	492.47	493.30	495.55	497.20	497.50	496.45	496.60	495.90	495.00
17	495.58	494.52	493.57	492.50	493.30	495.60	497.30	496.90	496.45	496.60	495.90	495.00
18	495.55	494.42	493.51	492.60	493.33	495.70	497.35	496.95	496.50	496.65	495.90	494.90
19	495.53	494.46	493.45	492.67	493.40	495.75	497.30	496.90	496.50	496.60	495.85	494.90
20	495.50	494.46	493.42	492.55	493.65	495.80	497.40	496.85	496.60	496.50	495.80	494.90
21	495.48	494.36	493.36	492.55	493.75	495.90	497.40	496.85	496.50	496.50	495.70	494.85
22	495.47	494.41	493.38	492.59	493.77	495.90	497.35	496.85	496.50	496.50	495.85	494.85
23	495.44	494.35	493.30	492.60	493.80	496.00	497.30	496.95	496.60	496.60	495.75	494.85
24	495.40	494.30	493.25	492.60	494.00	496.07	497.30	496.80	496.60	496.60	495.65	494.88
25	495.18	494.26	493.27	492.60	494.00	496.13	497.30	496.80	496.60	496.60	495.65	494.90
26	495.18	494.24	493.22	492.68	494.10	496.20	497.35	496.80	496.60	496.45	495.75	494.90
27	495.17	494.20	493.19	492.64	494.20	496.35	497.35	496.80	496.60	496.40	495.55	494.85
28	495.16	494.15	493.14	492.68	494.30	496.43	497.30	496.70	496.60	496.40	495.65	494.70
29	495.16		493.17	492.67	494.35	496.45	497.20	496.70	496.60	496.40	495.70	494.70
30	495.10		493.07	492.67	494.40	496.55	497.27	496.70	496.60	496.40	495.00	494.65
31	495.09		493.02		494.50		497.20	496.65		496.40		494.60

\*Automatic Gauge removed.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—RANIER, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1	494.55	493.15	492.10	490.55	490.90	491.50	494.34	495.75	496.00	496.00	496.15	
2	494.50	493.20	492.00	490.60	490.75	491.50	494.35	495.77	495.35	495.97	496.26	
3	494.60	493.15	491.95	490.40	490.70	491.55	494.45	495.80	495.90	496.15	496.30	
4	494.55	493.10	491.90	490.80	490.60	491.60	494.50	495.75	495.95	496.00	496.31	
5	494.40	493.05	491.85	490.35	490.58	491.60	494.60	495.75	496.05	496.00	496.35	
6	494.40	493.05	491.80	490.30	490.59	491.55	494.55	495.75	496.10	495.95	496.35	
7	494.30	493.00	492.00	490.40	490.60	491.65	494.60	495.80	496.05	495.95		
8	491.25	492.95	491.75	490.35	491.20	491.70	494.65	495.92	496.02	495.97	496.32	
9	494.20	492.90	491.70	490.20	491.10	491.75	494.70	495.82	496.05	495.97	496.65	
10	494.30	492.85	491.65	490.30	490.80	491.80	494.75	495.85	495.95	496.00	496.58	
11	494.20	492.85	491.60	490.70	490.75	491.90	494.85	495.85	496.00	495.90	496.54	
12	494.10	492.80	491.55	490.35	490.78	492.15	494.85	495.85	496.05	495.93	496.45	
13	494.05	492.80	491.50	490.30	490.78	492.25	494.95	495.75	496.05	495.97	496.62	
14	494.00	492.80	491.70	490.20	490.80	492.40	495.05	495.80	495.90	495.97	496.73	
15	493.95	492.70	491.40	490.15	491.38	492.50	495.05	496.00	495.93	495.98	496.73	
16	493.90	492.60	491.35	490.15	491.10	492.70	495.05	495.95	495.93	495.98	496.80	
17	493.80	492.65	491.40	490.20	491.10	492.75	495.15	495.92	495.90	496.10	496.80	
18	493.75	492.60	491.40	490.70	491.05	493.05	495.20	495.92	495.95	496.03	496.82	
19	493.75	492.50	491.20	490.35	491.00	492.95	495.20	495.95	496.00	495.97	496.81	
20	493.70	492.45	491.20	490.30	491.00	493.00	495.25	495.95	496.00	496.03	496.81	
21	493.70	492.40	491.20	490.30	491.00	492.90	495.30	495.95	495.97	495.98	496.85	
22	493.65	492.30	491.10	490.30	491.40	493.20	495.40	495.95	495.90	496.08	496.95	
23	493.60	492.35	491.15	490.30	491.20	493.25	495.50	495.80	495.93	496.18	496.95	
24	493.60	492.30	491.05	490.85	491.60	493.35	495.55	495.90	496.00	496.25	497.00	
25	493.50	492.20	490.85	490.90	491.26	493.50	495.60	495.95	495.95	495.90	497.00	
26	493.45	492.15	490.85	490.50	491.40	493.60	495.65	495.92	496.15	496.12	497.00	
27	493.40	492.15	490.75	490.50	491.40	493.80	495.65	495.90	496.05	496.15	497.00	
28	493.30	492.15	490.95	490.30	491.35	493.95	495.65	496.00	496.00	496.15		
29	493.30		490.80	490.60	491.60	494.05	495.60	495.97	496.00	496.18	497.00	
30	493.25		490.65	490.55	491.50	494.15	495.65	495.95	496.00	496.18	497.05	
31	493.20		490.60		491.69		495.70	495.97		496.17		
1916												
1	497.20	496.97	496.20	495.05	497.40	500.65	499.80	497.95	497.40	497.56	497.18	497.10
2	497.20	496.95	496.15	495.16	497.50	500.75	499.75	497.95	497.44	497.56	497.18	497.10
3	497.22	496.95	496.10	495.16	497.55	500.80	499.68	498.00	497.40	497.53	497.18	497.12
4	497.18	496.93	496.07	495.10	497.61	500.85	499.60	497.91	497.53	497.48	497.20	497.05
5	497.22	496.90	496.05	495.06	497.69	500.85	499.50	497.95	497.55	497.45	497.25	497.05
6	497.24	496.91	496.00	495.02	497.70	500.88	499.40	497.94	497.55	497.44	497.21	497.05
7	497.29	496.90	496.00	494.97	497.75	500.88	499.35	497.95	497.51	497.40	497.18	497.10
8	497.20	496.85	495.95	494.92	497.77	500.90	499.25	497.98	497.50	497.38	497.18	497.10
9	497.14	496.80	495.90	494.95	497.80	500.88	499.15	497.95	497.50	497.35	497.20	497.07
10	497.15	496.80	495.85	494.90	497.85	500.88	499.10	497.75	497.48	497.32	497.15	497.10
11	497.15	496.75	495.81	494.85	497.87	500.85	499.03	497.86	497.44	497.30	497.16	497.05
12	497.12	496.75	495.85	494.90	498.05	500.88	499.00	497.85	497.44	497.27	497.20	497.10
13	497.10	496.70	495.81	494.95	498.15	500.81	498.95	497.81	497.41	497.26		497.05
14	497.10	496.67	495.77	494.97	498.10	500.80	498.83	497.76	497.36	497.28		497.05
15	497.10	496.65	495.75	495.00	498.49	500.78	498.75	497.76	497.35	497.26	497.15	497.05
16	497.03	496.63	495.73	495.10	498.66	500.75	498.70	497.76	497.35	497.28	497.15	497.05
17	497.05	496.60	495.70	495.30	498.83		498.64	497.78	497.35	497.30	497.15	497.05
18	497.02	496.57	495.64	495.50	498.95		498.53	497.74	497.35	497.31	497.15	497.09
19	497.02	496.53	495.60	495.73	499.07	500.62	498.44	497.70	497.33	497.31	497.15	497.08
20	497.02	496.50	495.58		499.15	500.60	498.40	497.66	497.40	497.28	497.19	497.05
21	497.01	496.47	495.52		499.45	500.50	498.33	497.68	497.45	497.26	497.17	497.05
22	497.03	496.44	495.45	496.45	499.62	500.30	498.30	497.68	497.50	497.22	497.15	497.03
23	497.03	496.42	495.40	496.45	499.63	500.14	498.17	497.60	497.55	497.20	497.15	497.02
24	497.01	496.40	495.37	496.56	499.93	500.26		497.62	497.57	497.21	497.15	497.02
25	497.01	496.38	495.35		500.05	500.29	498.02	497.58	497.56	497.18	497.20	497.00
26	497.03	496.34	495.40	496.90	500.10	500.20	498.18	497.58	497.57	497.20	497.20	497.10
27		496.29	495.36	497.05	500.12	500.15	498.05	497.58	497.56	497.20	497.15	497.10
28	497.00	496.25	495.32	497.15	500.26	500.10	498.05	497.49	497.55	497.20	497.10	497.10
29	497.00	496.20	495.31		500.35	500.03	498.03	497.48	497.57	497.20	497.10	497.10
30	497.00		495.30	497.40	500.40	499.85	498.05	497.50	497.56	497.19	497.10	497.10
31	497.00		495.25		500.50		498.00	497.45		497.17		

\*Automatic Gauge removed.

WATER LEVELS—RAINY LAKE—RANIER, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1.	497-10	496-73	495-96	494-50	493-69	493-46	.....	492-42	491-44	490-92	490-81	490-80
2.	497-12	496-68	495-96	494-44	493-68	493-44	493-10	492-38	491-42	490-85	490-83	490-82
3.	497-07	496-65	495-89	494-40	493-71	493-45	493-10	492-33	491-42	490-90	490-85	490-72
4.	497-06	496-61	495-85	494-33	493-73	493-44	493-16	492-20	491-42	490-90	490-80	490-70
5.	497-00	496-60	495-77	494-28	493-73	493-43	493-12	492-25	491-40	490-85	490-86	490-70
6.	497-00	496-60	495-74	494-21	493-75	493-40	493-08	492-25	491-37	490-83	490-84	490-70
7.	497-00	496-57	495-70	494-16	493-75	493-35	493-05	492-28	491-35	490-85	490-86	490-70
8.	496-98	496-55	495-70	494-14	493-70	493-34	.....	492-25	491-35	490-82	490-87	490-69
9.	496-95	496-53	495-60	494-10	493-75	493-32	493-00	492-23	491-30	490-75	490-88	490-70
10.	496-95	496-50	495-56	494-05	493-75	493-35	492-98	492-10	491-20	490-75	490-88	490-70
11.	496-05	496-50	495-48	493-90	493-74	493-28	492-98	492-05	491-17	490-72	490-89	490-70
12.	496-90	496-47	495-46	493-90	493-73	493-10	492-95	492-05	491-22	490-74	490-88	490-70
13.	496-88	496-44	495-45	493-85	493-70	.....	492-90	492-00	491-25	490-70	490-88	490-70
14.	496-90	496-41	495-41	493-80	493-70	493-20	492-88	491-92	491-22	490-73	490-90	490-70
15.	496-90	496-37	495-36	493-70	493-70	493-23	492-90	491-85	491-20	490-70	490-90	490-70
16.	496-90	496-35	495-30	493-73	493-70	493-30	492-88	491-90	491-17	490-72	490-90	490-70
17.	496-85	496-31	495-25	493-73	493-70	493-35	492-82	491-87	491-15	490-72	490-90	490-70
18.	496-84	496-35	495-20	493-70	493-66	493-40	492-76	491-86	491-10	490-75	490-92	490-70
19.	496-85	496-30	495-16	493-70	493-65	493-40	492-76	491-82	491-05	490-80	490-90	490-68
20.	496-85	496-27	495-10	493-70	493-70	493-35	492-74	491-77	491-10	490-82	490-92	490-65
21.	496-84	496-23	495-05	493-70	493-67	493-30	492-72	491-70	491-07	490-90	490-92	490-65
22.	496-83	496-20	495-00	493-70	493-65	493-30	492-75	491-65	491-05	490-90	490-94	490-65
23.	496-84	496-20	494-96	493-71	493-65	493-28	492-70	491-65	491-10	490-80	490-92	490-64
24.	496-83	496-15	494-92	493-70	493-60	493-24	492-64	491-65	491-00	490-82	490-92	490-65
25.	496-80	496-10	494-89	493-72	493-58	493-25	492-60	491-62	490-92	490-85	490-91	490-65
26.	496-78	496-05	494-84	493-70	493-55	493-20	492-60	491-65	490-90	490-85	490-90	490-68
27.	496-76	496-02	494-80	493-70	493-60	493-15	492-55	491-60	491-00	490-80	490-84	490-65
28.	496-76	496-00	494-70	493-70	493-56	493-15	492-55	491-55	491-02	490-83	490-80	490-65
29.	496-75	.....	494-65	493-70	493-54	493-15	492-55	491-55	491-00	490-80	490-82	490-65
30.	496-74	.....	494-62	493-70	493-52	493-15	492-50	491-49	491-02	490-80	490-80	490-65
31.	496-74	.....	494-55	.....	493-48	.....	492-45	491-46	.....	490-83	.....	490-64
1918												
1.	490-65	490-45	490-44	490-20	490-71	492-40	494-10	495-08	495-01	494-20	493-65	494-10
2.	490-65	490-45	490-43	490-20	490-75	492-44	494-15	495-10	495-05	494-15	493-64	494-05
3.	490-64	490-47	490-42	490-21	490-77	492-55	494-15	495-10	495-02	494-15	493-63	494-05
4.	490-63	490-47	490-40	490-22	490-80	492-65	494-17	495-12	494-98	494-18	493-65	494-05
5.	490-60	490-48	490-40	490-23	490-86	492-76	494-20	495-12	494-95	494-22	493-60	494-05
6.	490-62	490-49	490-38	490-23	490-91	492-80	494-26	495-12	494-94	494-21	493-60	494-05
7.	490-60	490-48	490-38	490-25	490-96	492-80	494-30	495-14	494-93	494-15	493-65	494-08
8.	490-58	490-47	490-37	490-26	491-10	492-90	494-35	495-14	494-92	494-12	493-70	494-10
9.	490-54	490-45	490-36	490-27	491-10	493-00	494-38	495-14	494-92	494-10	493-75	494-15
10.	490-54	490-46	490-35	490-28	491-10	493-10	494-40	495-10	494-88	494-07	493-75	494-16
11.	490-54	490-45	490-31	490-29	491-20	493-15	494-45	495-12	494-85	494-05	493-81	494-14
12.	490-53	490-45	490-28	490-30	491-23	493-16	494-50	495-20	494-82	494-02	493-80	494-12
13.	490-54	490-45	490-27	490-30	491-28	493-20	494-55	495-23	494-75	494-00	493-80	494-10
14.	490-51	490-44	490-26	490-30	491-35	493-30	494-60	495-20	494-72	494-00	493-84	494-10
15.	490-50	490-44	490-25	490-30	491-42	493-35	494-62	495-18	494-70	493-96	493-85	494-10
16.	490-50	490-45	490-23	490-30	491-41	493-43	494-65	495-17	494-67	493-94	493-88	494-10
17.	490-48	490-45	490-19	490-32	491-45	493-50	494-66	495-17	494-65	493-90	493-90	494-08
18.	490-46	490-45	490-17	490-33	491-48	493-55	494-72	495-17	494-60	493-95	493-93	494-10
19.	490-46	490-45	490-14	490-34	491-54	493-58	494-75	495-15	494-57	493-93	493-95	494-10
20.	490-46	490-44	490-15	490-34	491-60	493-63	494-75	495-15	494-54	493-90	493-95	494-09
21.	490-46	490-45	490-15	490-34	491-74	493-70	494-78	495-18	494-50	493-85	493-95	494-10
22.	490-46	490-45	490-15	490-34	491-74	493-75	494-82	495-25	494-45	493-90	493-95	494-10
23.	490-47	490-45	490-10	490-34	491-80	493-80	494-85	495-20	494-47	493-88	493-95	494-10
24.	490-49	490-45	490-10	490-33	491-90	493-85	494-87	495-19	494-42	493-85	493-95	494-10
25.	490-49	490-45	490-12	490-34	491-95	493-85	494-89	495-18	494-40	493-80	493-95	494-15
26.	490-50	490-45	490-13	490-37	492-00	493-83	494-90	495-17	494-36	493-72	493-95	494-15
27.	490-50	490-44	490-13	490-40	492-05	493-86	494-92	495-13	494-34	493-70	493-95	494-15
28.	490-50	490-45	490-13	490-50	492-12	493-92	494-95	495-12	491-31	493-68	493-95	494-13
29.	490-47	.....	490-15	490-60	492-16	494-00	495-00	495-10	494-29	493-68	493-95	494-13
30.	490-45	.....	490-18	490-60	492-27	494-05	495-03	495-05	494-25	493-65	494-00	494-12
31.	490-45	.....	490-19	490-00	492-35	.....	495-05	495-02	.....	493-68	.....	494-10

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY LAKE—RANIER, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910												
1	494-08	493-45	492-63	491-33	493-10	495-25	496-16	497-12	496-52	496-56	496-10	496-12
2	494-08	493-43	492-60	491-00	493-15	495-30	496-44	497-10	496-48	496-47	496-15	496-10
3	494-08	493-38	492-58	491-00	493-20	495-40	496-85	497-11	496-42	496-45	496-20	496-08
4	494-06	493-36	492-54	491-04	493-25	495-50	497-05	497-08	496-38	496-45	496-25	496-06
5	494-05	493-33	492-50	491-05	493-28	495-55	497-13	497-01	496-35	496-47	496-28	496-05
6	494-05	493-30	492-45	492-00	493-33	495-60	497-21	497-00	496-30	496-45	496-22	496-04
7	494-00	493-26	492-41	492-05	493-41	495-63	497-21	497-00	496-30	496-45	496-20	496-04
8	494-00	493-24	492-35	492-08	493-50	495-65	497-14	496-95	496-26	496-45	496-20	496-02
9	494-00	493-20	492-32	492-10	493-55	495-75	497-21	496-93	496-20	496-45	496-23	496-02
10	494-00	493-16	492-28	492-12	493-64	495-82	497-29	496-90	496-16	496-45	496-20	496-02
11	493-97	493-13	492-25	492-15	493-70	495-85	497-33	496-09	496-13	496-44	496-20	496-01
12	493-95	493-10	492-23	492-20	493-78	495-86	497-32	496-93	496-10	496-43	496-20	496-00
13	493-92	493-05	492-20	492-24	493-85	495-82	497-29	497-04	496-10	496-40	496-20	496-00
14	493-90	493-00	492-17	492-31	494-00	495-92	497-25	497-04	496-15	496-36	496-20	496-00
15	493-87	493-00	492-15	492-35	494-10	495-98	497-27	496-96	496-17	496-34	496-20	495-98
16	493-85	493-00	492-10	492-39	494-25	496-02	497-27	496-97	496-20	496-30	496-20	495-96
17	493-82	492-98	492-07	492-44	494-30	496-10	497-26	496-92	496-24	496-30	496-20	495-96
18	493-80	492-93	492-02	492-48	494-43	496-05	497-26	496-96	496-33	496-29	496-22	495-95
19	493-80	492-90	491-98	492-50	494-50	496-07	497-32	496-96	496-34	496-30	496-21	495-92
20	493-79	492-90	492-02	492-60	494-60	496-05	497-31	496-92	496-36	496-31	496-20	495-90
21	493-77	492-90	492-04	492-60	494-72	496-10	497-32	496-91	496-45	496-27	496-20	495-88
22	493-75	492-88	492-05	492-65	494-83	496-15	497-35	496-91	496-48	496-25	496-15	495-87
23	493-75	492-85	492-03	492-70	494-90	496-15	497-26	496-88	496-50	496-29	496-19	495-87
24	493-68	492-85	491-98	492-78	494-93	496-16	497-27	496-83	496-50	496-31	496-18	495-87
25	493-65	492-85	492-00	492-85	494-97	496-14	497-29	496-78	496-48	496-33	496-15	495-86
26	493-63	492-80	492-00	492-90	495-00	496-12	497-25	496-71	496-51	496-35	496-15	495-85
27	493-60	492-74	491-96	492-95	495-03	496-16	497-23	496-66	496-55	496-33	496-15	495-85
28	493-55	492-70	491-94	493-00	495-12	496-08	497-25	496-59	496-59	496-32	496-13	495-83
29	493-53	492-65	491-95	493-05	495-12	496-05	497-22	496-55	496-56	496-30	496-13	495-80
30	493-50	492-60	491-96	493-08	495-12	496-08	497-20	496-50	496-57	496-21	496-13	495-78
31	493-46	492-55	491-95	493-08	495-18	496-08	497-17	496-50	496-50	496-16	496-13	495-76
1920												
1	495-80	495-19	494-34	493-58	494-05	495-90	497-17	497-29	497-12	496-79	496-70	496-28
2	495-80	495-17	494-31	493-57	494-10	496-00	497-20	497-28	497-10	496-81	496-66	496-30
3	495-77	495-15	494-28	493-55	494-12	496-06	497-23	497-29	497-07	496-76	496-65	496-24
4	495-75	495-13	494-23	493-55	494-17	496-12	497-27	497-30	497-05	496-73	496-60	496-20
5	495-73	495-09	494-18	493-54	494-22	496-17	497-24	497-31	497-03	496-77	496-60	496-23
6	495-70	495-05	494-13	493-52	494-25	496-22	497-22	497-28	496-99	496-77	496-65	496-25
7	495-68	495-03	494-10	493-50	494-30	496-29	497-19	497-27	496-98	496-72	496-65	496-20
8	495-66	495-00	494-05	493-47	494-36	496-35	497-20	497-28	496-97	496-61	496-65	496-24
9	495-64	494-96	494-02	493-45	494-42	496-40	497-22	497-31	496-95	496-67	496-60	496-14
10	495-64	494-92	493-98	493-43	494-47	496-45	497-27	497-33	496-92	496-63	496-55	496-10
11	495-60	494-90	493-95	493-40	494-53	496-50	497-30	497-36	496-87	496-60	496-52	496-10
12	495-58	494-87	493-92	493-38	494-56	496-55	497-31	497-32	496-87	496-67	496-50	496-12
13	495-57	494-85	493-87	493-37	494-60	496-60	497-36	497-29	496-84	496-67	496-50	496-10
14	495-55	494-83	493-85	493-36	494-64	496-65	497-29	497-26	496-88	496-62	496-46	496-10
15	495-53	494-80	493-82	493-34	494-68	496-70	497-33	497-25	496-86	496-65	496-43	496-00
16	495-52	494-78	493-79	493-33	494-73	496-75	497-33	497-25	496-85	496-62	496-48	495-95
17	495-51	494-75	493-74	493-35	494-76	496-77	497-31	497-27	496-83	496-62	496-52	496-02
18	495-49	494-71	493-68	493-38	494-80	496-78	497-30	497-27	496-82	496-63	496-52	496-00
19	495-48	494-67	493-63	493-40	494-84	496-79	497-28	497-26	496-81	496-62	496-52	496-03
20	495-46	494-64	493-59	493-45	494-89	496-80	497-28	497-26	496-81	496-62	496-50	496-02
21	495-45	494-58	493-60	493-50	494-94	496-83	497-33	497-25	496-79	496-61	496-45	496-00
22	495-42	494-55	493-55	493-60	495-05	496-86	497-35	497-24	496-79	496-65	496-43	496-00
23	495-38	494-50	493-68	493-62	495-13	496-88	497-35	497-23	496-79	496-61	496-40	496-00
24	495-36	494-46	493-50	493-63	495-17	496-92	497-37	497-22	496-79	496-61	496-42	496-00
25	495-34	494-45	493-52	493-73	495-24	496-96	497-35	497-20	496-82	496-60	496-40	496-00
26	495-32	494-44	493-55	493-80	495-40	497-01	497-32	497-18	496-82	496-60	496-38	496-00
27	495-30	494-42	493-55	493-86	495-52	497-06	497-30	497-18	496-83	496-63	496-33	496-00
28	495-28	494-38	493-55	493-91	495-61	497-08	497-40	497-18	496-79	496-70	496-30	496-00
29	495-25	494-35	493-55	493-95	495-68	497-10	497-40	497-19	496-79	496-68	496-31	495-98
30	495-23	494-32	493-57	494-00	495-73	497-17	497-34	497-17	496-80	496-65	496-30	496-00
31	495-21	494-30	493-58	494-00	495-80	497-18	497-38	497-14	496-80	496-67	496-28	495-97



WATER LEVELS—RAINY LAKE—RANIER, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1	495-98	495-08	494-70	493-65	494-42	496-00	496-75	496-81	496-86	496-71	496-25	496-48
2	495-97	495-03	494-80	493-63	494-47	496-08	496-75	496-80	496-86	496-71	496-23	496-42
3	495-97	494-98	494-70	493-62	494-51	496-10	496-75	496-79	496-89	496-72	496-20	496-40
4	495-97	494-98	494-70	493-60	494-56	496-11	496-80	496-79	496-90	496-67	496-20	496-40
5	495-95	494-95	494-60	493-63	494-61	496-15	496-85	496-69	496-95	496-60	496-21	496-40
6	495-82	494-94	494-57	493-65	494-70	496-19	496-88	496-72	496-93	496-60	496-25	496-42
7	495-80	494-92	494-55	493-65	494-73	496-20	496-86	496-73	496-91	496-66	496-30	496-40
8	495-79	494-90	494-52	493-85	494-77	496-22	496-85	496-75	496-95	496-66	496-30	496-40
9	495-77	494-90	494-50	493-95	494-80	496-22	496-85	496-75	496-99	496-67	496-27	496-40
10	495-75	494-90	494-40	494-00	494-85	496-23	496-85	496-78	496-99	496-67	496-25	496-37
11	495-73	494-90	494-37	494-05	494-90	496-23	496-85	496-77	496-97	496-60	496-32	496-40
12	495-71	494-90	494-32	494-10	494-90	496-26	496-87	496-73	496-95	496-50	496-27	496-43
13	495-69	494-90	494-30	494-12	495-00	496-32	496-94	496-75	497-02	496-60	496-37	496-38
14	495-63	494-90	494-30	493-15	495-05	496-40	496-94	496-76	497-03	496-60	496-35	496-38
15	495-59	494-90	494-30	493-15	495-08	496-45	496-91	496-74	497-00	496-60	496-37	496-38
16	495-57	494-90	494-32	493-17	495-12	496-43	496-90	496-72	496-97	496-55	496-37	496-38
17	495-56	494-90	494-26	493-20	495-20	496-43	496-85	496-74	496-80	496-55	496-37	496-37
18	495-54	494-88	494-18	493-24	495-26	496-50	496-82	496-75	496-90	496-55	496-40	496-36
19	495-52	494-88	494-14	493-30	495-30	496-53	496-84	496-73	497-00	496-58	496-40	496-35
20	495-46	494-87	494-12	493-28	495-32	496-59	496-85	496-72	496-93	496-54	496-40	496-35
21	495-40	494-86	494-09	493-30	495-38	496-53	496-83	496-73	496-73	496-55	496-40	496-33
22	495-36	494-83	494-05	493-30	495-43	496-50	496-85	496-74	496-85	496-48	496-40	496-31
23	495-34	494-80	494-00	493-28	495-48	496-60	496-83	496-84	496-88	496-53	496-41	496-25
24	495-32	494-79	493-95	493-28	495-48	496-62	496-82	496-85	496-80	496-50	496-43	496-23
25	495-30	494-78	493-91	493-25	495-52	496-62	496-81	496-86	496-82	496-50	496-45	496-23
26	495-30	494-73	493-87	493-26	495-62	496-66	496-81	496-90	496-85	496-42	496-45	496-20
27	495-28	494-76	493-87	493-28	495-71	496-70	496-85	496-87	496-70	496-38	496-45	496-19
28	495-23	494-79	493-85	493-32	495-80	496-72	496-84	496-85	496-80	496-32	496-45	496-17
29	495-19	.....	493-82	493-35	495-90	496-73	496-85	496-87	496-75	496-30	496-45	496-18
30	495-15	.....	493-72	493-38	495-97	496-76	496-85	496-89	496-70	496-30	496-45	496-18
31	495-10	.....	493-72	.....	495-98	.....	496-83	496-87	.....	496-28	.....	496-17
1922												
1	496-14	495-34	494-37	493-22	494-65	495-85	496-15	496-25	495-98	495-70	495-45	494-83
2	496-10	495-30	494-37	493-22	494-69	495-90	496-15	496-22	495-97	495-70	495-45	494-82
3	496-05	495-27	494-32	493-22	494-73	495-88	496-15	496-25	495-95	495-74	495-50	494-80
4	496-02	495-25	494-27	493-20	494-77	495-91	496-16	496-24	495-96	495-72	495-51	494-78
5	495-22	495-22	494-24	493-12	494-80	495-95	496-20	496-24	496-06	495-75	495-52	494-78
6	495-98	495-20	494-22	493-10	494-85	495-95	496-25	496-26	496-02	495-72	495-53	494-76
7	495-97	495-18	494-20	493-12	494-90	495-95	496-26	496-25	496-00	495-75	495-53	494-75
8	495-94	495-13	494-20	493-20	494-95	496-02	496-27	496-25	495-98	495-76	495-55	494-72
9	495-91	495-10	494-12	493-25	495-05	496-06	496-31	496-25	495-85	495-76	495-53	494-68
10	495-89	495-07	494-01	493-30	495-10	496-05	496-30	496-25	495-82	495-75	495-53	494-67
11	495-88	495-00	493-98	493-35	495-15	496-03	496-26	496-21	495-84	495-72	495-45	494-67
12	495-87	494-97	493-94	493-40	495-20	496-01	496-25	496-20	495-82	495-66	495-40	494-65
13	495-85	494-95	493-90	493-45	495-25	496-02	496-24	496-20	495-80	495-67	495-38	494-63
14	495-83	494-97	493-85	493-50	495-30	496-01	496-23	496-21	495-78	495-65	495-34	494-60
15	495-82	494-95	493-80	493-60	495-35	496-05	496-22	496-20	495-76	495-68	495-30	494-58
16	495-79	494-93	493-75	493-70	495-45	496-12	496-22	496-20	495-72	495-72	495-30	494-56
17	495-77	494-90	493-70	493-84	495-47	496-16	496-22	496-19	495-72	495-58	495-23	494-53
18	495-75	494-87	493-70	493-97	495-54	496-16	496-22	496-18	495-70	495-65	495-20	494-50
19	495-72	494-84	493-70	494-00	495-56	496-15	496-20	496-20	495-67	495-70	495-18	494-48
20	495-69	494-80	493-65	494-10	495-62	496-15	496-20	496-18	495-67	495-62	495-15	494-46
21	495-65	494-79	493-60	494-15	495-67	496-20	496-18	496-18	495-62	495-62	495-10	494-42
22	495-63	494-77	493-58	494-20	495-72	496-15	496-24	496-20	495-62	495-63	495-10	494-40
23	495-62	494-75	493-52	494-25	495-72	496-20	496-23	496-15	495-63	495-65	495-10	494-38
24	495-58	494-73	493-47	494-31	495-79	496-18	496-22	496-12	495-63	495-62	495-10	494-37
25	495-57	494-65	493-47	494-35	495-80	496-17	496-20	496-08	495-65	495-58	495-02	494-35
26	495-54	494-58	493-47	494-42	495-82	496-15	496-15	496-06	495-65	495-58	494-98	494-33
27	495-51	494-50	493-47	494-45	495-85	496-19	496-15	496-04	495-61	495-60	494-96	494-31
28	495-49	494-42	493-45	494-52	495-86	496-15	496-14	496-02	495-63	495-61	494-92	494-28
29	495-45	.....	493-42	494-55	495-90	496-16	496-12	496-02	495-65	495-60	494-89	494-25
30	495-40	.....	493-36	494-59	495-90	496-21	496-22	496-00	495-65	495-50	494-85	494-20
31	495-37	.....	493-32	.....	495-90	.....	496-26	495-99	.....	495-49	.....	494-15

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY LAKE—RANIER, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1	494-10	492-95	491-60	490-15	491-52	493-36	493-71	493-52	493-46	493-20	492-62	492-06
2	494-05	492-98	491-52	490-12	491-70	493-40	493-71	493-50	493-47	493-20	492-60	492-03
3	494-02	492-95	491-48	490-10	491-81	493-42	493-72	493-50	493-50	493-18	492-60	492-00
4	493-98	492-93	491-44	490-08	491-95	493-45	493-72	493-48	493-45	493-16	492-60	492-01
5	493-94	492-90	491-38	490-04	492-05	493-46	493-72	493-48	493-51	493-13	492-58	492-02
6	493-88	492-87	491-32	490-00	492-12	493-51	493-78	493-47	493-48	493-10	492-58	491-92
7	493-85	492-80	491-27	489-98	492-22	493-51	493-75	493-49	493-48	493-08	492-55	492-00
8	493-86	492-70	491-22	489-95	492-30	493-50	493-75	493-45	493-46	493-05	492-40	492-02
9	493-83	492-60	491-18	489-92	492-33	493-51	493-86	493-40	493-44	492-98	492-36	491-92
10	493-78	492-50	491-12	489-89	492-40	493-51	493-88	493-45	493-42	492-95	492-35	491-86
11	493-72	492-45	491-06	489-85	492-46	493-52	493-84	493-42	493-42	492-98	492-36	491-90
12	493-68	492-40	491-00	489-80	492-54	493-52	493-81	493-40	493-30	492-90	492-38	491-82
13	493-64	492-36	490-94	489-80	492-60	493-52	493-81	493-39	493-35	492-88	492-37	491-80
14	493-64	492-33	490-88	489-76	492-64	493-53	493-81	493-38	493-30	492-88	492-33	491-83
15	493-62	492-30	490-82	489-74	492-68	493-51	493-82	493-39	493-30	492-88	492-30	491-78
16	493-60	492-27	490-76	489-69	492-72	493-51	493-84	493-39	493-30	492-88	492-30	491-78
17	493-55	492-24	490-70	489-65	492-78	493-49	493-80	493-35	493-32	492-88	492-25	491-80
18	493-50	492-20	490-68	489-70	492-81	493-47	493-71	493-39	493-30	492-87	492-25	491-77
19	493-46	492-15	490-65	489-77	492-89	493-41	493-72	493-30	493-30	492-85	492-25	491-75
20	493-42	492-09	490-59	489-88	492-92	493-58	493-75	493-30	493-35	492-86	492-14	491-70
21	493-40	492-03	490-52	490-03	492-95	493-60	493-70	493-39	493-29	492-84	492-12	491-70
22	493-40	491-98	490-50	490-20	493-01	493-65	493-70	493-35	493-30	492-82	492-19	491-69
23	493-37	491-94	490-50	490-48	493-10	493-65	493-72	493-31	493-30	492-80	492-15	491-65
24	493-34	491-88	490-42	490-62	493-11	493-67	493-70	493-35	493-30	492-80	492-15	491-60
25	493-28	491-82	490-40	490-78	493-12	493-70	493-65	493-35	493-31	492-80	492-15	491-56
26	493-23	491-77	490-38	490-90	493-16	493-68	493-60	493-35	490-29	492-79	492-15	491-52
27	493-18	491-72	490-35	491-10	493-20	493-71	493-67	493-35	490-22	492-75	492-10	491-48
28	493-14	491-68	490-30	491-20	493-25	493-75	493-58	493-35	490-27	492-74	492-10	491-52
29	493-10	491-65	490-25	491-30	493-31	493-70	493-59	493-32	490-25	492-70	492-10	491-55
30	493-05	491-60	490-20	491-40	493-32	493-72	493-59	493-35	490-23	492-62	492-09	491-52
31	493-00	491-55	490-18	491-40	493-35	493-75	493-72	493-45	490-20	492-65	492-00	491-50
1924												
1	491-50	490-75	490-34	489-90	490-10	490-62	490-95	491-05	490-85	490-98	492-03	492-96
2	491-48	490-70	490-34	489-90	490-10	490-61	490-97	491-00	490-91	490-97	492-03	492-98
3	491-46	490-68	490-31	489-84	490-10	490-60	490-98	491-00	490-83	490-97	492-03	492-99
4	491-39	490-65	490-29	489-85	490-13	490-62	490-94	490-98	490-90	490-97	492-18	493-00
5	491-35	490-70	490-30	489-83	490-15	490-65	490-92	491-00	490-90	490-98	492-13	493-05
6	491-33	490-70	490-30	489-83	490-17	490-70	490-95	490-98	490-90	491-00	492-18	493-09
7	491-30	490-70	490-32	489-83	490-20	490-75	490-97	491-00	490-90	491-10	492-23	493-10
8	491-27	490-68	490-30	489-85	490-20	490-78	490-95	490-95	490-95	491-10	492-26	493-10
9	491-25	490-64	490-32	489-85	490-20	490-81	490-97	490-95	490-90	491-00	492-28	493-11
10	491-22	490-60	490-36	489-85	490-20	490-75	490-97	490-97	490-90	491-05	492-30	493-12
11	491-20	490-60	490-28	489-88	490-20	490-80	490-94	490-98	490-82	491-17	492-33	493-17
12	491-17	490-57	490-25	489-88	490-21	490-82	490-94	491-05	490-80	491-10	492-28	493-20
13	491-14	490-60	490-22	489-85	490-22	490-86	490-92	490-98	490-85	490-90	492-36	493-20
14	491-11	490-58	490-20	489-80	490-30	490-90	490-90	490-92	490-86	491-20	492-40	493-24
15	491-08	490-60	490-18	489-80	490-32	490-90	490-92	490-92	490-90	491-23	492-43	493-25
16	491-10	490-58	490-15	489-85	490-37	490-92	490-90	490-95	490-90	491-30	492-50	493-26
17	491-00	490-58	490-12	489-85	490-42	490-95	490-92	490-95	490-90	491-30	492-60	493-28
18	491-00	490-57	490-10	489-88	490-44	490-98	490-95	490-93	490-90	491-32	492-60	493-30
19	490-98	490-56	490-10	489-91	490-46	490-95	490-92	490-92	490-90	491-34	492-50	493-31
20	490-96	490-52	490-10	489-92	490-43	490-92	490-97	491-00	490-90	491-35	492-58	493-32
21	490-95	490-50	490-10	489-94	490-40	490-94	490-97	490-98	490-98	491-40	492-72	493-33
22	490-92	490-48	490-10	489-95	490-40	490-96	490-95	490-92	490-94	491-45	492-65	493-35
23	490-90	490-46	490-08	489-98	490-40	490-98	490-96	490-94	490-97	491-48	492-68	493-37
24	490-89	490-45	490-05	490-02	490-40	491-00	490-98	490-98	490-94	491-51	492-68	493-37
25	490-90	490-45	490-02	490-10	490-48	491-00	490-96	491-05	490-90	491-55	492-80	493-38
26	490-90	490-43	490-00	490-12	490-55	491-00	490-94	490-91	490-94	491-58	492-73	493-38
27	490-90	490-40	490-01	490-16	490-60	491-02	490-92	490-91	490-90	491-60	492-78	493-36
28	490-90	490-38	490-01	490-19	490-60	490-98	490-93	490-92	490-94	491-70	492-81	493-39
29	490-89	490-37	490-00	490-20	490-60	490-98	491-02	490-95	491-00	491-75	492-90	493-42
30	490-85	490-35	489-98	490-18	490-60	491-00	491-10	490-93	490-98	491-82	492-93	493-45
31	490-80	490-30	489-95	490-15	490-58	491-00	491-10	490-90	490-90	491-80	492-90	493-45

## WATER LEVELS—RAINY LAKE—RANIER, MINN.—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	493-47	493-60	493-70	493-60	494-93	495-15	496-19	496-59	496-51	496-35	495-73	495-89
2	493-50	493-60	493-68	493-60	494-95	495-15	496-25	496-60	496-52	496-30	495-75	495-90
3	493-50	493-60	493-68	493-65	494-97	495-25	496-25	496-60	496-55	496-25	495-78	495-90
4	493-50	493-61	493-69	493-68	495-00	495-31	496-30	496-60	996-47	496-25	495-78	495-90
5	493-50	493-61	493-69	493-72	495-00	495-27	496-35	496-59	496-55	496-33	495-70	495-90
6	493-50	493-60	493-68	493-77	495-00	495-31	496-40	496-60	496-53	496-40	495-70	495-90
7	493-49	493-61	493-68	493-80	495-02	495-37	496-45	496-60	496-52	496-35	495-75	495-90
8	493-50	493-64	493-69	493-80	495-02	495-46	496-53	496-60	496-51	496-15	495-77	495-93
9	493-50	493-69	493-70	493-90	495-00	495-46	496-50	496-60	496-52	496-05	495-80	495-97
10	493-50	493-70	493-72	493-95	495-00	495-48	496-60	496-57	496-52	496-05	495-81	495-98
11	493-52	493-70	493-72	494-00	495-00	495-51	496-52	496-55	496-51	496-00	495-81	495-98
12	493-55	493-70	493-71	494-04	495-09	495-52	496-52	496-52	496-51	496-00	495-81	495-98
13	493-58	493-70	493-70	494-08	495-10	495-52	496-52	496-52	496-51	495-95	495-80	495-98
14	493-60	493-70	493-70	494-10	495-10	495-52	496-57	496-52	496-51	496-00	495-79	495-98
15	493-60	493-70	493-70	494-12	495-09	495-58	496-53	496-55	496-51	495-90	495-80	495-98
16	493-60	493-70	493-70	494-18	495-12	495-70	496-55	496-62	496-50	495-87	495-80	495-98
17	493-60	493-70	493-70	494-20	495-12	495-72	496-57	496-64	496-49	495-90	495-85	495-99
18	493-60	493-69	493-70	494-25	495-12	495-77	496-58	496-60	496-50	495-90	495-82	495-99
19	493-60	493-67	493-70	494-30	495-12	495-77	496-56	496-55	496-50	495-85	495-85	495-99
20	493-60	493-70	493-70	494-35	495-12	495-82	496-53	496-55	496-49	495-90	495-85	495-98
21	493-60	493-70	493-70	494-40	495-12	495-82	496-55	496-55	496-50	495-90	495-85	495-97
22	493-60	493-70	493-70	494-41	495-12	495-90	496-57	496-50	496-49	495-85	495-85	495-97
23	493-62	493-70	493-70	494-53	495-13	495-92	496-58	496-55	496-49	495-85	495-85	495-97
24	493-61	493-70	493-68	494-51	495-12	496-00	496-58	496-55	496-49	495-75	495-85	495-97
25	493-62	493-70	493-70	494-51	495-12	496-00	496-58	496-55	496-39	495-80	495-85	495-97
26	493-62	493-70	493-66	494-58	495-10	496-00	496-58	496-58	496-29	495-65	495-87	495-97
27	493-61	493-70	493-62	494-64	495-10	496-00	496-58	496-55	496-25	495-70	495-89	495-95
28	493-60	493-70	493-60	494-74	495-10	496-10	496-58	496-53	496-25	495-75	495-89	495-94
29	493-60	493-60	493-60	494-80	495-10	496-15	496-59	496-52	496-25	495-70	495-89	495-93
30	493-58	493-60	493-60	494-94	495-10	496-17	496-59	496-50	496-28	495-65	495-89	495-92
31	493-58	493-60	493-60	494-94	495-10	496-17	496-59	496-49	495-75	495-75	495-89	495-91
1926												
1	495-90	495-40	494-70	493-88	493-70	494-05	495-59	496-50	496-64	496-55	497-58	497-47
2	495-88	495-36	494-70	493-84	493-72	494-10	495-63	496-50	496-65	496-50	497-51	497-49
3	495-85	495-32	494-68	493-81	493-72	494-15	495-70	496-51	496-65	496-55	497-49	497-49
4	495-82	495-28	494-66	493-77	493-75	494-16	495-77	496-60	496-67	496-62	497-35	497-50
5	495-81	495-26	494-64	493-73	493-72	494-18	495-83	496-55	496-68	496-66	497-45	497-50
6	495-80	495-24	494-62	493-71	493-77	494-20	495-90	496-53	496-68	496-70	497-35	497-50
7	495-80	495-22	494-58	493-70	493-77	494-23	495-91	496-45	496-69	496-75	497-40	497-50
8	495-80	495-20	494-54	493-68	493-78	494-25	495-95	496-52	496-69	496-80	497-45	497-50
9	495-79	495-18	494-52	493-64	493-78	494-25	495-98	496-55	496-67	496-78	497-40	497-48
10	495-76	495-15	494-50	493-59	493-78	494-30	495-99	496-55	496-66	496-82	497-40	497-46
11	495-74	495-15	494-50	493-55	493-78	494-30	496-10	496-60	496-65	496-90	497-40	497-47
12	495-73	495-13	494-47	493-51	493-78	494-30	496-12	496-60	496-63	496-93	497-40	497-47
13	495-71	495-09	494-44	493-47	493-78	494-32	496-15	496-60	496-65	496-96	497-45	497-48
14	495-70	495-04	494-42	493-44	493-78	494-35	496-20	496-60	496-65	497-00	497-45	497-47
15	495-70	495-00	494-40	493-49	493-77	494-35	496-24	496-62	496-65	497-10	497-45	497-47
16	495-70	494-97	494-36	493-51	493-76	494-37	496-31	496-65	496-65	497-15	497-40	497-46
17	495-69	494-97	494-32	493-51	493-75	494-38	496-36	496-68	496-60	497-20	497-45	497-45
18	495-68	494-97	494-28	493-52	493-75	494-51	496-40	496-68	496-62	497-30	497-45	497-44
19	495-67	494-95	494-30	493-53	493-75	494-44	496-36	496-70	496-64	497-30	497-40	497-42
20	495-65	494-92	494-22	493-55	493-75	494-72	496-40	496-70	496-65	497-38	497-38	497-40
21	495-62	494-89	494-20	493-55	493-78	494-85	496-40	496-68	496-68	497-39	497-35	497-40
22	495-58	494-87	494-18	493-58	493-78	494-82	496-37	496-63	496-68	497-40	497-31	497-40
23	495-54	494-85	494-15	493-58	493-79	494-90	496-37	496-60	496-69	497-49	497-32	497-35
24	495-51	494-82	494-15	493-62	493-80	494-90	496-39	496-60	496-69	497-49	497-33	497-32
25	495-48	494-80	494-15	493-63	493-82	495-14	496-41	496-60	496-60	497-48	497-36	497-34
26	495-48	494-77	494-08	493-65	493-88	495-20	496-44	496-63	496-60	497-49	497-38	497-37
27	495-49	494-74	494-01	493-67	494-00	495-38	496-48	496-61	496-60	497-47	497-39	497-40
28	495-49	494-72	494-00	493-67	494-00	495-40	496-50	496-60	496-52	497-45	497-40	497-40
29	495-47	494-00	493-69	494-05	494-05	495-46	496-50	496-60	496-55	497-55	497-41	497-40
30	495-45	494-00	493-70	494-05	494-05	495-54	496-50	496-60	496-55	497-55	497-43	497-30
31	495-44	493-92	493-92	494-05	494-05	495-54	496-50	496-62	496-55	497-55	497-43	497-30

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY LAKE—RANIER, MINN.—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1	497-30	496-85	496-62	496-00	497-26	498-69	497-95	497-68	497-66	497-25	496-75	495-98
2	497-30	496-82	496-62	495-95	497-28	498-69	497-95	497-60	497-64	497-25	496-78	495-96
3	497-30	496-79	496-62	495-90	497-31	498-69	497-94	497-59	497-63	497-25	496-78	495-98
4	497-27	496-79	495-62	495-90	497-37	498-69	497-92	497-60	497-60	497-25	496-65	495-96
5	497-25	496-79	496-60	495-95	497-40	498-70	497-92	497-59	497-55	497-25	496-65	495-80
6	497-23	496-78	496-58	495-95	497-41	498-70	497-90	497-65	497-54	497-29	496-65	495-80
7	497-21	496-77	496-55	495-90	497-43	498-71	497-90	497-70	497-63	497-25	496-68	495-87
8	497-21	496-75	496-53	496-00	497-50	498-73	497-90	497-62	497-55	497-20	496-65	495-83
9	497-21	496-73	496-50	496-00	497-70	498-75	497-90	497-55	497-51	497-25	496-55	495-70
10	497-21	496-70	496-45	496-00	497-70	498-70	497-90	497-70	497-49	497-29	496-60	495-77
11	497-20	496-67	496-40	496-10	497-70	498-70	497-94	497-70	497-52	497-25	496-58	495-76
12	497-20	496-65	496-37	496-10	497-80	498-69	498-01	497-68	497-51	497-20	496-57	495-75
13	497-20	496-65	496-34	496-15	497-89	498-68	498-05	497-65	497-54	497-23	496-56	495-69
14	497-20	496-65	496-30	496-21	497-95	498-61	498-10	497-64	497-61	497-13	496-58	495-66
15	497-23	496-65	496-25	496-29	498-00	498-57	498-17	497-62	497-42	497-12	496-55	495-63
16	497-25	496-65	496-20	496-38	498-10	498-50	498-15	497-70	497-41	497-12	496-50	495-59
17	497-25	496-65	496-15	496-48	498-18	498-40	498-15	497-65	497-39	497-12	496-41	495-52
18	497-20	496-66	496-15	496-60	498-22	498-41	498-10	497-60	497-32	497-10	496-50	495-58
19	497-10	496-66	496-12	496-72	498-25	498-35	498-10	497-56	497-30	497-06	496-32	495-40
20	497-07	496-63	496-10	496-80	498-29	498-29	498-05	497-50	497-40	497-03	496-30	495-49
21	497-03	496-62	496-11	496-92	498-35	498-25	498-03	497-50	497-32	497-00	496-30	495-44
22	497-05	496-60	496-10	497-02	498-43	498-27	498-02	497-50	497-38	497-00	496-30	495-43
23	497-05	496-60	496-05	497-05	498-50	498-30	497-98	497-40	497-31	496-98	496-23	495-43
24	497-03	496-60	496-03	497-12	498-55	498-22	497-90	497-42	497-32	496-97	496-20	495-49
25	497-03	496-60	496-01	497-20	498-58	498-18	497-98	497-42	497-32	496-90	496-18	495-30
26	497-02	496-60	496-00	497-20	498-62	498-12	497-85	497-40	497-30	496-95	496-10	495-50
27	497-00	496-60	496-00	497-21	498-67	498-06	497-76	497-55	497-30	496-90	496-10	495-50
28	496-96	496-60	496-00	497-21	498-68	498-00	497-70	497-52	497-30	496-85	496-10	495-50
29	496-93	496-00	496-00	497-22	498-68	498-03	497-70	497-51	497-30	496-80	496-05	495-50
30	496-90	496-00	496-00	497-25	498-68	498-00	497-68	497-51	497-26	496-82	496-01	495-60
31	496-88	496-00	496-00	498-68	498-68	498-00	497-68	497-55	497-55	496-85	496-00	495-55

WATER LEVELS—RAINY LAKE—NORTHERN CONSTRUCTION COMPANY

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1						491-80	494-25	495-80	496-01	496-04	496-18	497-05
2						491-75	494-35	495-80	495-99	496-04	496-28	497-05
3						491-75	494-45	495-85	496-01	496-09	496-38	497-10
4						491-75	494-50	495-85	496-01	496-02	496-33	497-10
5						491-80	494-50	495-85	496-02	496-01	496-38	497-12
6						491-80	494-65	495-85	496-06	496-03	496-44	497-14
7						491-90	494-70	495-85	496-09	496-02	496-44	497-11
8						491-95	494-70	495-90	496-02	496-02	496-46	497-14
9						492-00	494-80	495-90	496-04	496-02	496-70	497-16
10						492-10	494-85	495-95	495-99	495-99	496-70	497-16
11						492-15	494-90	495-95	496-02	495-99	496-60	497-16
12						492-30	494-85	495-95	496-04	495-97	496-50	497-16
13						492-40	495-00	495-95	496-05	495-98	496-65	497-16
14						492-45	495-10	495-95	495-98	496-02	496-70	497-16
15						492-60	495-10	495-95	495-96	496-00	496-74	497-16
16						492-80	495-10	496-00	495-97	496-02	496-77	497-16
17						492-90	495-15	496-00	495-98	496-05	496-78	497-16
18						493-05	495-20	496-00	495-96	496-04	496-83	497-16
19						493-10	495-30	496-00	496-06	496-04	496-80	497-16
20						493-10	495-30	496-00	495-99	496-04	496-84	497-16
21						493-05	495-35	496-00	495-99	496-02	496-79	497-15
22						493-30	495-40	496-00	495-98	496-10	496-92	497-15
23						493-40	495-60	496-00	495-96	496-15	496-94	497-16
24						493-50	495-55	496-00	496-08	496-23	496-96	497-16
25						493-60	495-60	496-00	496-00	495-96	495-00	497-15
26						493-65	495-65	496-00	496-08	496-12	497-00	497-15
27						493-80	495-65	495-95	496-11	496-18	497-01	497-15
28						493-95	495-70	495-95	496-06	496-19	497-01	497-15
29						494-05	495-70	496-00	496-07	496-22	497-01	497-15
30						494-15	495-70	495-95	496-04	496-34	497-03	497-15
31						494-15	495-75	496-00	496-00	496-10	497-03	497-15

## WATER LEVELS—RAINY LAKE—NORTHERN CONSTRUCTION COMPANY—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	497-15	496-87	496-22	495-24	497-41	500-63	499-79	497-95	497-40	497-51	497-12	497-07
2	497-15	496-87	496-18	495-21	497-50	500-69	499-75	497-95	497-40	497-55	497-08	497-05
3	497-15	496-84	496-15	495-19	497-56	500-73	499-74	497-97	497-47	497-52	497-15	497-05
4	497-15	496-84	496-10	495-14	497-60	500-78	499-64	497-99	497-52	497-45	497-15	497-05
5	497-18	496-82	496-07	495-08	497-70	500-85	499-54	497-93	497-55	497-40	497-20	497-05
6	497-20	496-82	496-03	495-04	497-72	500-88	499-44	497-95	497-51	497-45	497-20	497-04
7	497-25	496-81	496-00	495-00	497-72	500-84	499-35	497-96	497-50	497-35	497-10	497-05
8	497-20	496-80	495-97	494-95	497-60	500-84	499-25	497-96	497-50	497-32	497-10	497-04
9	497-15	496-78	495-92	494-93	497-87	500-87	499-15	497-93	497-50	497-30	497-10	497-04
10	497-14	496-77	495-85	494-90	497-85	500-86	499-09	497-93	497-47	497-27	497-10	497-04
11	497-14	496-77	495-82	494-87	497-95	500-83	499-08	497-81	497-30	497-25	497-09	497-04
12	497-12	496-75	495-84	494-89	498-09	500-79	499-00	497-88	497-40	497-25	497-10	497-04
13	497-10	496-73	495-81	494-95	498-15	500-81	498-98	497-78	497-40	497-20	497-11	497-04
14	497-08	496-72	495-80	494-96	498-55	500-80	498-87	497-78	497-35	497-20	497-15	497-04
15	497-07	496-70	495-78	495-00	498-50	500-78	498-79	497-75	497-30	497-18	497-12	497-04
16	497-03	496-68	495-75	495-09	498-64	500-75	498-72	497-75	497-33	497-18	497-10	497-04
17	497-03	496-65	495-72	495-21	498-79	500-71	498-64	497-75	497-33	497-20	497-10	497-04
18	497-03	496-62	495-66	495-04	498-95	500-65	498-57	497-74	497-33	497-25	497-10	497-04
19	497-00	496-58	495-63	495-56	499-14	500-60	498-44	497-69	497-33	497-26	497-12	497-03
20	497-00	496-54	495-61	495-76	499-29	500-55	498-44	497-67	497-35	497-25	497-10	497-03
21	497-01	496-52	495-59	496-00	499-46	500-47	498-34	497-65	497-35	497-20	497-10	497-03
22	497-01	496-49	495-53	496-19	499-56	500-50	498-29	497-61	497-50	497-21	497-12	497-03
23	497-00	496-46	495-50	496-30	499-56	500-35	498-29	497-60	497-47	497-20	497-09	497-03
24	497-00	496-41	495-49	496-50	499-83	500-19	498-25	497-52	497-47	497-23	497-10	497-03
25	497-00	496-39	495-45	496-68	500-04	500-25	498-21	497-56	497-46	497-10	497-14	497-03
26	496-98	496-35	495-43	496-84	500-08	500-20	498-18	497-54	497-45	497-12	497-15	497-05
27	496-98	496-32	495-41	497-00	500-12	500-17	498-11	497-54	497-52	497-15	497-15	497-04
28	496-95	496-27	495-36	497-16	500-23	500-09	498-05	497-52	497-55	497-10	497-12	497-05
29	498-95	496-24	495-31	497-21	500-33	500-03	497-99	497-46	497-55	497-12	497-10	497-03
30	496-93	.....	495-27	497-31	500-38	499-97	497-99	497-41	497-54	497-10	497-10	497-04
31	496-90	.....	495-27	.....	500-43	.....	497-99	497-45	.....	497-10	.....	497-05
1917												
1	497-04	496-72	496-03	494-60	493-76	493-55	493-00	492-41	491-55	491-06	490-81	490-84
2	497-03	496-70	495-99	494-50	493-80	493-51	493-12	492-40	491-44	491-15	490-83	490-85
3	497-02	496-69	495-95	494-45	493-77	493-51	493-11	492-42	491-45	491-14	490-82	490-84
4	497-00	496-67	495-91	494-38	493-80	493-51	493-15	492-25	491-45	490-95	490-85	490-84
5	496-98	496-66	495-86	494-30	493-80	493-51	493-20	492-23	491-45	490-95	490-84	490-84
6	496-98	496-63	495-79	494-24	493-80	493-50	493-15	492-25	491-44	490-94	490-86	490-85
7	496-98	496-61	495-75	494-20	493-76	493-44	493-11	492-21	491-43	490-85	490-85	490-86
8	496-96	496-58	495-71	494-15	493-80	493-40	493-00	492-10	491-41	490-83	490-85	490-86
9	496-96	496-56	495-65	494-11	493-81	493-40	493-00	492-10	491-32	490-83	490-84	490-85
10	496-93	496-53	495-61	494-06	493-82	493-40	493-01	492-06	491-25	490-80	490-84	490-84
11	496-92	496-66	495-57	493-97	493-81	493-40	493-00	492-05	491-24	490-81	490-85	490-83
12	496-93	496-54	495-53	493-94	493-80	493-31	493-02	492-05	491-25	490-82	490-84	490-83
13	496-91	496-51	495-51	493-90	493-83	493-31	493-01	492-04	491-28	490-81	490-85	490-83
14	496-91	496-48	495-46	493-87	493-76	493-32	493-02	491-95	491-28	490-75	490-85	490-82
15	496-90	496-45	495-39	493-80	493-77	493-36	493-00	491-94	491-23	490-75	490-86	490-81
16	496-89	496-42	495-33	493-77	493-76	493-36	492-85	491-95	491-21	490-76	490-86	490-80
17	496-87	496-39	495-28	493-77	493-75	493-42	492-83	491-90	491-18	490-75	490-85	490-80
18	496-85	496-38	495-24	493-77	493-72	493-40	492-82	491-94	491-16	490-74	490-86	490-81
19	496-85	496-36	495-19	493-75	493-75	493-42	492-85	491-80	491-21	490-85	490-87	490-80
20	496-84	496-33	495-15	493-75	493-74	493-45	492-84	491-81	491-05	490-85	490-88	490-80
21	496-84	496-30	495-11	493-77	493-75	493-40	492-80	491-78	491-12	490-81	490-89	490-79
22	496-83	496-27	495-07	493-80	493-71	493-36	492-75	491-65	491-12	490-82	490-89	490-79
23	496-82	496-24	495-04	493-80	493-70	493-37	492-75	491-66	491-15	490-82	490-95	490-79
24	496-81	496-21	495-00	493-77	493-66	493-32	492-67	491-67	491-14	490-81	490-96	490-78
25	496-80	496-18	494-95	493-77	493-65	493-30	492-63	491-65	491-10	490-85	490-85	490-77
26	496-79	496-15	494-91	493-76	493-61	493-27	492-60	491-67	491-00	490-84	490-85	490-76
27	496-77	496-11	494-88	493-75	493-63	493-25	492-65	491-62	491-10	490-84	490-84	490-75
28	496-78	496-07	494-84	493-75	493-62	493-20	492-63	491-60	491-05	490-81	490-84	490-75
29	496-78	.....	494-71	493-76	493-61	493-21	492-45	491-60	491-02	490-82	490-83	490-74
30	496-76	.....	494-73	493-76	493-60	493-20	492-40	491-68	491-05	490-84	490-84	490-75
31	496-74	.....	494-66	.....	493-56	.....	492-42	491-62	.....	490-82	.....	490-74

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY LAKE—NORTHERN CONSTRUCTION COMPANY—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1.	490-74	490-45	490-43	490-25	490-66	492-50	494-15	495-18	495-06	494-24	493-70	494-03
2.	490-73	490-45	490-44	490-25	490-73	492-55	494-25	495-15	494-07	494-20	493-70	494-12
3.	490-73	490-43	490-43	490-26	490-77	492-68	494-34	495-16	495-02	494-15	493-70	494-07
4.	490-73	490-42	490-42	490-28	490-81	492-75	494-25	495-15	495-03	494-24	493-73	494-05
5.	490-72	490-41	490-40	490-29	490-85	492-85	494-26	495-17	494-97	494-29	493-75	494-10
6.	490-71	490-38	490-39	490-30	490-90	492-82	494-40	495-20	494-07	494-32	493-68	494-14
7.	490-71	490-36	490-38	490-30	490-95	492-96	494-46	495-21	494-96	494-42	493-71	494-10
8.	490-70	490-34	490-36	490-31	491-05	493-00	494-45	495-17	494-95	494-15	493-70	494-13
9.	490-69	490-33	490-34	490-34	491-13	493-10	494-55	495-12	494-94	494-18	493-77	494-15
10.	490-68	490-34	490-31	490-35	491-20	493-18	494-50	495-11	.....	494-15	493-82	494-17
11.	490-67	490-33	490-30	490-35	491-30	493-20	494-55	495-22	.....	494-08	493-78	494-15
12.	490-66	490-32	490-30	490-35	491-20	493-33	494-60	495-27	494-82	493-85	493-74	494-17
13.	490-65	490-33	490-28	490-36	491-20	493-35	494-68	495-23	494-78	493-88	493-85	494-17
14.	490-65	490-32	490-27	490-36	491-38	493-42	494-71	495-25	494-75	494-10	493-83	494-15
15.	490-64	490-33	490-27	490-36	491-53	493-38	494-73	495-27	494-70	494-00	493-92	494-15
16.	490-63	490-33	490-25	490-35	491-50	493-45	494-76	495-25	494-69	494-05	493-82	494-14
17.	490-62	490-34	490-25	490-35	491-60	493-54	494-78	495-28	494-65	494-08	493-88	494-16
18.	490-62	490-35	490-23	490-36	491-63	493-68	494-82	495-27	494-62	493-94	493-96	494-15
19.	490-61	490-36	490-23	490-36	491-58	493-72	494-86	495-26	494-60	493-85	493-98	494-15
20.	490-59	490-37	490-21	490-36	491-76	493-60	494-76	495-18	494-58	493-85	494-02	494-08
21.	490-58	490-38	490-20	490-37	491-80	493-78	494-86	495-23	494-55	493-98	494-03	494-10
22.	490-57	490-40	490-20	490-36	491-80	493-88	494-94	495-12	494-52	493-86	493-92	494-11
23.	490-55	490-41	490-19	490-36	491-88	493-83	494-95	495-16	494-52	493-85	493-98	494-10
24.	490-55	490-41	490-18	490-37	491-97	493-98	494-95	495-12	494-47	493-74	493-98	494-13
25.	490-54	490-42	490-18	490-38	492-05	493-96	495-02	495-15	494-45	493-78	494-01	494-14
26.	490-53	490-41	490-20	490-38	492-12	493-87	494-95	.....	494-42	493-75	494-02	494-13
27.	490-51	490-42	490-20	490-38	492-20	493-85	495-00	.....	494-28	493-73	494-00	494-13
28.	490-50	490-43	490-19	490-39	492-24	494-03	495-12	.....	494-33	493-73	493-98	494-14
29.	490-49	.....	490-20	490-45	492-28	494-12	494-14	495-10	494-26	493-74	494-01	494-12
30.	490-47	.....	490-21	490-55	492-38	494-15	495-15	495-12	494-28	493-70	494-08	494-12
31.	490-46	.....	490-25	.....	492-46	.....	495-14	495-10	.....	.....	.....	494-12
1919												
1.	494-11	493-51	492-72	491-91	493-13	495-29	496-05	497-10	496-52	496-54	496-15	495-97
2.	494-10	493-45	492-68	491-91	493-15	495-30	496-36	497-04	496-44	496-38	496-15	495-95
3.	494-06	493-41	492-66	491-89	493-25	495-38	496-92	497-08	496-38	496-37	496-18	495-96
4.	494-04	493-38	492-64	491-88	493-24	495-52	497-02	497-02	496-33	496-38	496-32	495-97
5.	494-01	493-35	492-61	492-00	493-30	495-60	497-12	497-04	496-31	496-33	496-25	495-94
6.	494-01	493-31	492-59	492-02	493-45	495-61	497-23	497-03	496-27	496-35	496-08	495-90
7.	493-99	493-28	492-57	492-07	493-49	495-65	497-24	496-92	496-20	496-30	496-11	495-91
8.	493-98	493-25	492-54	492-12	493-55	495-70	497-24	496-88	496-19	496-34	496-14	495-90
9.	493-98	493-23	492-52	492-13	493-58	495-76	497-18	496-86	496-15	496-20	496-10	495-88
10.	493-97	493-19	492-49	492-15	493-62	495-80	497-25	496-80	496-13	496-25	496-22	495-88
11.	493-06	493-14	492-48	492-18	493-68	495-85	497-38	496-88	496-01	496-23	496-03	495-86
12.	493-04	493-14	492-48	492-21	493-75	495-88	497-29	496-95	496-06	496-23	496-02	495-85
13.	493-00	493-13	492-45	492-26	493-85	495-88	497-27	496-88	496-08	496-28	496-10	495-83
14.	493-88	493-12	492-41	492-31	494-00	496-00	497-26	496-96	496-04	496-22	496-08	495-81
15.	493-88	493-10	492-35	492-36	494-16	496-00	497-22	496-92	496-03	496-24	496-10	495-82
16.	493-86	493-06	492-38	492-41	494-25	496-00	497-24	496-93	496-15	496-18	496-11	496-82
17.	493-84	493-02	492-33	492-44	494-34	496-00	497-20	496-95	496-22	496-16	496-05	495-81
18.	493-82	493-02	492-28	492-51	494-40	496-02	497-22	496-92	496-30	496-12	496-08	495-83
19.	493-80	493-00	492-27	492-54	494-66	496-06	497-28	496-86	496-26	496-13	496-10	495-83
20.	493-78	492-97	492-25	492-58	494-64	496-04	497-28	496-88	496-36	496-18	496-08	495-80
21.	493-75	492-93	492-24	492-62	494-75	496-02	497-25	496-80	.....	496-17	496-07	495-78
22.	493-73	492-88	492-22	492-71	494-80	496-02	497-20	496-78	.....	496-12	496-00	495-75
23.	493-70	492-88	492-22	492-74	494-90	496-12	497-25	496-65	.....	496-15	496-00	495-74
24.	493-67	492-86	492-13	492-79	494-94	496-14	497-22	496-74	.....	496-18	496-03	495-75
25.	493-64	492-82	492-05	492-85	494-98	496-13	497-25	496-65	496-47	496-18	496-02	495-73
26.	493-60	492-80	491-97	492-91	495-05	496-14	497-21	496-60	496-43	496-19	496-00	495-73
27.	493-56	492-79	491-96	492-94	495-15	496-21	497-06	496-58	496-44	496-22	496-01	495-72
28.	493-58	492-78	491-96	492-99	495-09	496-10	497-20	496-55	496-48	496-15	496-00	495-70
29.	493-56	.....	491-94	493-05	495-15	496-10	497-20	496-43	496-46	496-17	495-98	495-72
30.	493-56	.....	491-94	493-06	495-22	496-03	497-15	496-47	496-49	496-19	495-98	495-70
31.	493-55	.....	491-94	.....	495-25	.....	497-14	496-45	.....	496-15	.....	495-68

WATER LEVELS—RAINY LAKE—NORTHERN CONSTRUCTION COMPANY—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
 [Elevations refer to D. P. W. Datum—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1	495-67	495-05	494-34	493-57	494-01	495-96	497-25	497-32	497-13	496-79	496-52	496-10
2	495-65	495-04	494-29	493-57	494-10	495-98	497-21	497-32	497-08	496-70	496-49	496-10
3	495-60	495-02	494-26	493-50	494-16	496-05	497-30	497-31	497-03	496-73	496-47	496-08
4	495-58	495-00	494-22	493-56	494-17	496-09	497-29	497-38	497-01	496-70	496-42	496-05
5	495-56	494-99	494-18	493-54	494-23	496-10	497-27	497-32	497-03	496-73	496-48	496-03
6	495-56	494-97	494-16	493-51	494-25	496-17	497-22	497-28	496-98	496-70	496-45	495-98
7	495-54	494-93	494-12	493-49	494-31	496-23	497-23	497-32	496-95	496-70	496-45	495-98
8	495-52	494-92	494-08	493-47	493-25	496-30	497-24	497-33	496-90	496-55	496-47	495-95
9	495-50	494-91	494-04	493-45	494-40	496-32	497-28	497-30	496-90	496-66	496-47	495-93
10	495-49	494-89	494-00	493-34	494-46	496-40	497-30	497-36	496-88	496-67	496-48	495-95
11	495-49	494-86	493-97	493-35	494-54	496-45	497-28	497-38	496-85	496-65	496-46	495-94
12	495-48	494-84	494-93	493-37	494-56	496-50	497-49	497-37	496-88	496-65	496-44	495-96
13	495-47	494-80	493-89	493-37	494-60	496-55	497-43	497-36	496-80	496-63	496-41	495-93
14	495-45	494-77	493-86	493-36	494-65	.....	497-30	497-31	496-85	496-60	496-38	495-90
15	495-43	494-75	493-83	493-35	494-70	496-68	497-39	497-31	496-72	496-59	496-37	495-88
16	495-41	494-73	493-80	493-36	494-75	496-70	497-35	497-35	496-85	496-58	496-33	495-86
17	495-39	494-73	493-76	493-37	494-78	496-70	497-40	497-34	496-81	496-59	496-35	495-85
18	495-36	494-72	493-71	493-38	494-80	496-71	497-48	497-32	496-85	496-58	496-34	495-85
19	495-37	494-60	493-66	493-42	494-85	496-75	497-32	497-38	496-77	496-58	496-31	495-84
20	495-37	494-58	493-62	493-49	494-90	496-80	497-35	497-35	496-76	496-58	496-35	495-84
21	495-34	494-55	493-58	493-52	494-95	496-87	497-36	497-27	496-78	496-67	496-29	495-85
22	495-31	494-53	493-54	493-57	495-03	496-86	497-39	497-26	496-70	496-62	496-27	495-84
23	495-28	494-50	493-50	493-62	495-13	496-91	497-40	497-27	496-76	496-55	496-25	495-80
24	495-25	494-50	493-49	493-70	495-18	496-96	497-42	497-28	496-70	496-60	496-22	495-80
25	495-22	494-49	493-50	493-75	495-25	497-05	497-42	497-26	496-82	496-62	496-21	495-81
26	495-20	494-47	493-54	493-75	495-39	497-14	497-37	497-20	496-68	496-60	496-20	495-80
27	495-18	494-44	493-56	493-85	495-50	497-14	497-34	497-20	496-65	496-63	496-19	495-80
28	495-16	494-40	493-56	493-89	495-60	497-16	497-43	497-20	496-61	496-57	496-17	495-79
29	495-13	494-38	493-55	493-94	495-66	497-17	497-41	497-26	496-78	496-55	496-17	495-79
30	495-10	.....	493-55	493-97	495-75	497-25	497-38	497-17	496-76	496-51	496-13	495-78
31	495-07	.....	493-57	.....	495-80	.....	497-30	497-16	.....	496-50	.....	495-77
1921												
1	495-77	494-87	494-62	493-68	494-53	495-98	496-70	496-74	496-82	496-60	496-17	496-36
2	495-78	494-86	494-58	493-64	494-57	496-02	496-73	496-73	496-84	496-67	496-12	496-35
3	495-76	494-83	494-54	493-67	494-58	496-05	496-73	496-71	496-90	496-66	496-11	496-35
4	495-73	494-80	494-49	493-61	494-66	496-09	496-64	496-72	496-77	496-62	496-10	496-35
5	495-70	494-77	494-45	493-64	494-70	496-12	496-76	496-67	496-83	496-50	496-13	496-34
6	495-66	494-73	494-42	493-75	494-67	496-15	496-80	496-54	496-84	496-48	496-16	496-34
7	495-62	494-76	494-40	493-79	494-73	496-16	496-81	496-65	.....	496-55	496-20	496-33
8	495-55	494-76	494-35	493-94	494-74	496-18	496-81	496-60	496-91	496-51	496-22	496-32
9	495-55	494-75	494-32	494-01	494-78	496-20	496-82	496-72	496-84	496-54	496-28	496-30
10	495-55	494-75	494-27	494-06	494-84	496-18	496-74	496-69	496-80	496-55	496-27	496-28
11	495-53	494-74	494-22	494-18	494-90	496-23	496-78	496-69	496-85	496-50	496-26	496-30
12	495-49	494-74	494-18	494-16	494-95	496-22	496-80	496-66	496-93	496-53	496-28	496-31
13	495-46	494-73	494-15	494-19	494-94	496-29	496-85	496-67	496-95	496-52	496-27	496-33
14	495-43	494-74	494-15	494-23	494-99	496-35	496-86	496-65	496-95	496-53	496-29	496-32
15	495-38	494-74	494-11	494-24	495-06	496-37	496-83	496-65	496-94	496-54	496-33	496-31
16	495-37	494-72	494-08	494-24	495-08	496-37	496-82	496-68	496-95	496-54	496-33	496-29
17	495-38	494-73	494-04	494-23	495-15	496-40	496-80	496-67	496-81	496-53	496-33	496-29
18	495-36	494-72	494-02	494-28	495-18	496-47	496-78	496-70	496-96	496-51	496-35	496-26
19	495-33	494-69	493-97	494-28	495-27	496-53	496-80	496-67	497-03	496-50	496-28	496-26
20	495-28	494-71	493-96	494-31	495-20	496-49	496-77	496-67	496-88	496-52	496-27	496-27
21	495-25	494-71	493-94	494-36	495-35	496-50	496-74	496-66	496-78	496-54	496-29	496-25
22	495-23	494-69	493-89	494-33	495-39	496-50	496-76	496-73	496-82	496-41	496-33	496-23
23	495-19	494-68	493-87	494-33	495-44	496-56	496-70	496-67	496-68	496-42	496-35	496-20
24	495-16	494-66	493-85	494-38	495-47	496-60	496-75	496-79	496-72	496-41	496-33	496-17
25	495-12	494-67	493-81	494-40	495-54	496-63	496-73	496-78	496-78	496-34	496-39	496-18
26	495-08	494-68	493-80	494-42	495-61	496-60	496-78	496-74	496-74	496-32	496-37	496-17
27	495-04	494-67	493-74	494-47	495-67	496-64	496-76	496-77	496-69	496-28	496-35	496-19
28	495-00	494-66	493-76	494-41	495-74	496-68	496-74	496-81	496-65	496-26	496-36	496-16
29	494-97	.....	493-70	494-44	495-81	496-67	496-77	496-80	496-65	496-23	496-36	496-13
30	494-94	.....	493-65	494-48	495-81	496-67	496-74	496-83	496-68	496-22	496-37	496-09
31	494-91	.....	493-61	.....	495-89	.....	496-74	496-79	496-68	496-19	.....	496-05

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY LAKE—NORTHERN CONSTRUCTION COMPANY—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1.....	496-06	495-34	494-48	493-31	494-69	495-95	496-19	496-27	495-98	495-75	495-59	494-88
2.....	496-02	495-31	494-45	493-32	494-73	495-96	496-19	496-25	495-97	495-75	495-54	494-87
3.....	495-98	495-29	494-40	493-31	494-76	495-98	496-19	496-26	495-99	495-75	495-53	494-85
4.....	495-95	495-26	494-35	493-24	494-79	495-99	496-18	496-35	495-99	495-81	495-55	494-81
5.....	495-94	495-24	494-20	493-21	494-85	495-99	496-30	496-31	496-15	495-81	495-65	494-80
6.....	495-93	495-21	494-21	493-23	494-84	495-95	496-24	496-41	496-02	495-82	495-55	494-80
7.....	495-89	495-18	494-23	493-22	494-91	495-95	496-29	496-21	495-92	495-79	495-51	494-79
8.....	495-87	495-15	494-23	493-24	495-01	496-01	496-29	496-29	495-86	495-79	495-45	494-76
9.....	495-85	495-13	494-16	493-31	495-03	496-09	496-24	496-28	495-84	495-70	495-44	494-74
10.....	495-83	495-10	494-09	493-39	495-05	496-05	496-28	496-29	495-86	495-77	495-51	494-72
11.....	495-82	495-08	494-05	493-41	495-21	496-04	496-28	496-22	495-88	495-68	495-42	494-69
12.....	495-80	495-06	494-03	493-47	495-23	496-11	496-29	496-24	495-91	495-75	495-47	494-69
13.....	495-78	495-05	494-00	493-51	494-35	496-05	496-25	496-26	495-82	495-69	495-52	494-67
14.....	495-76	495-02	493-94	493-55	495-47	496-15	496-34	496-18	495-85	495-75	495-53	494-64
15.....	495-78	494-99	493-89	493-60	495-45	496-15	496-24	496-25	495-79	495-75	495-38	494-61
16.....	495-77	494-96	493-86	493-80	495-54	496-25	496-23	496-25	495-85	495-75	495-32	494-58
17.....	495-75	494-92	493-82	493-95	495-55	506-21	496-23	496-14	495-82	495-65	495-39	494-55
18.....	495-71	494-90	493-78	494-05	495-62	496-24	496-25	496-21	495-75	495-72	495-20	494-53
19.....	495-69	494-88	493-74	494-09	495-65	496-24	496-26	496-22	495-69	495-69	495-25	494-50
20.....	495-67	494-85	493-71	494-14	495-74	496-24	496-23	496-25	495-71	495-66	495-21	494-47
21.....	495-65	494-81	493-68	494-19	495-75	496-26	496-23	496-19	495-66	495-65	495-14	494-43
22.....	495-63	494-78	493-62	494-25	495-78	496-22	496-26	496-24	495-67	495-61	495-10	494-40
23.....	495-61	494-72	493-58	494-34	495-80	496-04	496-27	496-18	495-59	495-65	495-04	494-37
24.....	495-60	494-66	493-55	494-38	495-82	496-09	496-27	496-09	495-65	495-57	495-07	494-34
25.....	495-55	494-61	493-56	494-44	495-83	496-15	496-25	496-09	495-65	495-52	495-00	494-32
26.....	495-52	494-58	493-54	494-49	495-89	496-23	496-19	496-11	495-65	495-57	495-02	494-36
27.....	495-48	494-54	493-55	494-53	495-89	496-23	496-18	496-15	495-65	495-62	495-00	494-32
28.....	495-45	494-52	493-53	494-57	495-90	496-24	496-18	496-09	495-66	495-65	494-99	494-28
29.....	495-41	.....	493-49	494-59	495-89	496-22	496-26	496-09	495-69	495-54	494-94	494-24
30.....	495-40	.....	493-43	.....	495-91	496-21	496-37	496-05	495-69	495-52	495-05	494-20
31.....	495-32	.....	493-39	.....	495-95	.....	496-29	495-95	.....	495-53	.....	494-18
1923												
1.....	494-15	493-01	491-68	490-35	491-66	493-47	493-81	493-60	493-55	493-29	492-66	492-15
2.....	494-11	492-97	491-61	490-32	491-84	493-49	493-70	493-59	493-55	493-27	492-66	492-15
3.....	494-09	492-92	491-55	490-27	491-97	493-54	493-80	493-52	493-51	493-28	492-64	492-15
4.....	494-05	492-87	491-50	490-24	492-12	493-57	493-80	493-64	493-55	493-24	492-64	492-10
5.....	494-01	492-83	491-47	490-20	492-14	493-59	493-85	493-81	493-60	493-20	492-63	492-10
6.....	493-98	492-78	491-42	490-22	492-26	493-60	493-85	493-41	493-54	493-16	492-58	492-00
7.....	493-92	492-74	491-35	490-19	492-24	493-58	493-81	493-56	493-55	493-14	492-54	492-00
8.....	493-88	492-68	491-29	490-15	492-32	493-60	.....	493-55	493-58	493-10	492-50	492-00
9.....	493-85	492-63	491-24	490-12	492-44	493-60	493-95	493-57	493-52	493-06	492-45	492-00
10.....	493-82	492-56	491-19	490-00	492-53	493-61	494-00	493-55	493-46	493-00	492-45	492-00
11.....	493-79	492-53	491-16	489-93	492-58	492-63	493-95	493-46	493-48	493-05	492-50	492-00
12.....	493-76	492-48	491-12	489-87	492-64	492-65	493-94	493-55	493-39	492-98	492-55	492-00
13.....	493-74	492-44	491-07	489-72	492-69	492-60	493-90	493-45	493-41	492-94	492-55	491-90
14.....	493-72	492-42	491-01	489-76	492-73	492-64	493-86	493-50	493-45	492-94	492-40	491-90
15.....	493-70	492-37	490-93	489-78	492-76	492-60	493-95	493-46	493-42	492-96	492-35	491-90
16.....	493-64	492-32	490-88	489-78	492-84	492-60	493-91	493-45	493-50	492-94	492-35	491-85
17.....	493-62	492-28	490-83	489-73	492-88	492-51	493-97	493-48	493-50	492-96	492-35	491-85
18.....	493-59	492-23	490-79	489-78	492-94	492-34	493-80	493-54	493-49	492-94	492-35	491-85
19.....	493-57	492-19	490-77	489-92	492-98	492-55	493-84	493-48	493-49	492-90	492-38	491-80
20.....	493-45	492-14	490-73	490-00	493-02	492-60	493-80	493-45	493-51	492-92	492-24	491-75
21.....	493-42	492-11	490-69	490-30	493-08	492-66	493-79	493-50	493-41	492-88	492-27	491-75
22.....	493-45	492-05	490-66	490-35	493-11	492-76	493-81	493-48	493-38	492-88	492-27	491-70
23.....	493-40	492-01	490-62	490-60	493-15	492-74	493-78	493-45	493-45	492-87	492-28	491-70
24.....	493-36	491-94	490-57	490-85	493-19	492-75	493-76	493-43	493-46	492-86	492-30	491-65
25.....	493-31	491-89	490-54	490-98	493-22	492-80	493-79	493-46	493-41	492-84	492-30	491-60
26.....	493-26	491-84	490-53	491-12	493-26	492-81	493-79	493-47	493-32	492-84	492-30	491-60
27.....	493-23	491-77	490-50	491-26	493-30	492-86	493-71	493-44	493-36	492-82	492-30	491-61
28.....	493-17	491-74	490-46	491-34	493-35	492-80	493-72	493-48	493-40	492-80	492-15	491-60
29.....	493-14	.....	490-41	491-47	493-40	492-80	493-70	493-43	493-35	492-76	492-20	491-60
30.....	493-10	.....	490-37	491-53	493-42	492-79	493-70	493-41	493-37	492-72	492-10	491-55
31.....	493-05	.....	490-34	.....	493-44	.....	493-65	493-37	.....	492-68	.....	491-55



## WATER LEVELS—RAINY LAKE—NORTHERN CONSTRUCTION COMPANY—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

(Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1.	491.50	490.85	490.40	489.95	490.30	490.80	491.10	491.20	491.10	491.20	491.60	492.85
2.	491.50	490.85	490.40	489.95	490.38	490.78	491.15	491.20	491.05	491.20	491.70	492.85
3.	491.45	490.80	490.40	489.95	490.40	490.80	491.10	491.20	491.05	491.25	491.95	492.90
4.	491.45	490.80	490.40	489.95	490.45	490.85	491.05	491.15	491.00	491.25	492.05	492.95
5.	491.40	490.75	490.35	489.95	490.50	490.75	491.14	491.15	491.00	491.30	492.10	493.00
6.	491.40	490.75	490.35	489.95	490.48	490.80	491.15	491.10	491.00	491.30	492.10	493.05
7.	491.35	490.75	490.35	489.95	490.50	490.90	491.10	491.15	491.05	491.25	492.15	493.07
8.	491.35	490.70	490.35	489.95	490.52	490.97	491.05	491.15	491.00	491.35	492.25	493.10
9.	491.30	490.70	490.30	489.95	490.50	490.95	491.10	491.15	491.00	491.25	492.35	493.10
10.	491.25	490.70	490.30	489.97	490.50	491.00	491.10	491.20	491.00	491.30	492.30	493.10
11.	491.20	490.70	490.30	489.97	490.48	490.98	491.05	491.10	490.95	491.35	492.25	493.11
12.	491.20	490.65	490.25	489.97	490.40	491.00	491.05	491.10	490.95	491.30	492.35	493.10
13.	491.20	490.65	490.25	489.97	490.58	490.95	491.10	491.10	491.00	491.30	492.40	493.10
14.	491.20	490.65	490.25	489.97	490.55	491.00	491.05	491.05	491.00	491.35	492.55	493.15
15.	491.10	490.60	490.25	489.97	490.50	491.05	491.05	491.05	490.95	491.40	492.55	493.18
16.	491.10	490.60	490.20	489.97	490.58	491.00	491.10	491.10	491.00	491.40	492.50	493.18
17.	491.10	490.60	490.20	489.97	490.65	491.15	491.10	491.10	491.05	491.45	492.50	493.20
18.	491.10	490.60	490.20	489.98	490.60	491.10	491.15	491.10	491.05	491.50	492.55	493.25
19.	491.10	490.55	490.20	489.98	490.65	491.18	491.15	491.05	491.00	491.58	492.55	493.26
20.	491.10	490.55	490.15	489.99	490.55	491.15	491.10	491.05	491.00	491.56	492.60	493.28
21.	491.00	490.55	490.15	489.99	490.60	491.15	491.20	491.05	490.95	491.58	492.60	493.30
22.	491.00	490.50	490.15	490.00	490.70	491.20	491.15	491.10	491.00	491.60	492.70	493.31
23.	491.00	490.50	490.20	490.00	490.65	491.15	491.15	491.10	491.00	491.60	492.65	493.33
24.	490.90	490.45	490.15	490.10	490.60	491.15	491.10	491.20	491.15	491.65	492.70	493.33
25.	490.90	490.45	490.15	490.15	490.65	491.20	491.10	491.15	491.15	491.65	492.75	493.35
26.	490.90	490.45	490.10	490.20	490.65	491.10	491.10	491.05	491.15	491.75	492.75	493.35
27.	490.90	490.40	490.10	490.25	490.70	491.15	491.15	491.05	491.05	491.78	492.80	493.36
28.	490.90	490.40	490.10	490.30	490.75	491.10	491.10	491.10	491.10	491.85	492.80	493.38
29.	490.90	490.40	490.10	490.30	490.70	491.20	491.10	491.05	491.15	491.87	492.75	493.39
30.	490.85	.....	489.93	490.32	490.76	491.15	491.15	491.05	491.20	491.95	492.80	493.40
31.	490.85	.....	489.93	.....	490.78	.....	491.20	491.10	.....	491.75	.....	493.40
1925												
1.	493.40	493.60	493.60	493.83	495.00	495.25	496.30	496.65	496.60	496.35	495.70	496.00
2.	493.40	493.60	493.60	493.85	495.10	495.30	496.35	496.60	496.60	496.30	495.70	496.00
3.	493.45	493.60	493.55	493.87	495.05	495.40	496.35	496.60	496.60	496.25	495.75	496.00
4.	493.50	493.55	493.60	493.88	495.15	495.40	496.30	496.65	496.60	496.25	495.70	496.05
5.	493.55	493.55	493.60	493.90	495.15	495.45	496.35	496.70	496.60	496.33	495.75	496.05
6.	493.55	493.60	493.60	493.90	495.10	495.60	496.40	496.65	496.65	496.40	495.75	495.96
7.	493.60	493.60	493.60	493.92	495.15	495.60	496.40	496.65	496.60	496.35	495.70	495.95
8.	493.55	493.60	493.60	493.95	495.17	495.55	496.45	496.70	496.60	496.15	495.70	495.95
9.	493.55	493.60	493.55	493.97	495.20	495.50	496.40	496.70	496.65	496.05	495.75	495.95
10.	493.60	493.55	493.60	493.98	495.20	495.55	496.40	496.55	496.65	496.05	495.80	495.95
11.	493.60	493.60	493.65	494.03	495.18	495.60	496.45	496.60	496.60	496.00	495.85	496.00
12.	493.65	493.65	493.65	494.07	495.15	495.65	496.50	496.70	496.50	496.00	495.80	496.00
13.	493.60	493.60	493.60	494.12	495.10	495.65	496.50	496.65	496.45	495.95	495.80	495.95
14.	493.55	493.65	493.55	494.15	495.15	495.70	496.55	496.65	496.35	496.00	495.80	496.00
15.	493.60	493.60	493.60	494.20	495.17	495.75	496.55	496.65	496.30	495.90	495.85	496.00
16.	493.60	493.60	493.65	494.20	495.17	495.80	496.60	496.60	496.30	495.87	495.85	496.00
17.	493.55	493.60	493.65	494.27	495.17	495.85	496.60	496.65	496.30	495.90	495.85	496.00
18.	493.55	493.55	493.70	494.32	495.15	495.90	496.65	496.65	496.35	495.90	495.90	496.00
19.	493.50	493.55	493.70	494.35	495.20	495.85	496.65	496.60	496.40	495.85	495.95	495.95
20.	493.55	493.60	493.70	494.40	495.15	495.85	496.60	496.60	496.40	495.90	495.95	495.95
21.	493.65	493.60	493.65	494.45	495.15	495.95	496.65	496.65	496.30	495.90	495.95	495.95
22.	493.60	493.55	493.65	494.48	495.17	496.00	496.60	496.70	496.35	495.85	495.95	495.95
23.	493.65	493.60	493.70	494.50	495.20	496.10	496.55	496.65	496.35	495.85	495.95	495.95
24.	493.65	493.55	493.75	494.55	495.25	496.20	496.65	496.60	496.30	495.75	495.90	495.95
25.	493.60	493.55	493.75	494.58	495.15	496.25	496.60	496.55	496.25	495.80	495.90	496.00
26.	493.60	493.60	493.70	494.60	495.15	496.30	496.65	496.60	496.30	495.65	495.95	496.00
27.	493.60	493.55	493.75	494.70	495.17	496.28	496.65	496.65	496.30	495.70	495.90	495.95
28.	493.60	493.55	493.80	494.78	495.18	496.25	496.70	496.55	496.30	495.75	495.95	495.90
29.	493.55	.....	493.85	494.85	495.18	496.30	496.65	496.55	496.25	495.70	495.95	495.90
30.	493.60	.....	493.80	494.95	495.10	496.30	496.70	496.50	496.35	495.65	496.00	495.90
31.	493.60	.....	493.80	.....	495.20	.....	496.60	496.50	.....	495.75	.....	495.90

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY LAKE—NORTHERN CONSTRUCTION COMPANY—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1.....	495.90	495.30	494.70	493.85	493.75	494.10	495.85	496.65	496.80	496.50	497.55	497.55
2.....	495.90	495.27	494.60	493.80	493.80	494.05	495.85	496.60	496.85	496.50	497.55	497.54
3.....	495.90	495.25	494.60	493.75	493.85	494.10	495.90	496.60	496.85	496.55	497.50	497.55
4.....	495.90	495.25	494.60	493.75	493.80	494.15	496.00	496.55	496.90	496.60	497.55	497.50
5.....	495.90	495.26	494.55	493.75	493.80	494.20	496.15	496.50	496.90	496.60	497.57	497.55
6.....	495.85	495.20	494.55	493.70	493.80	494.25	496.10	496.55	496.85	496.65	497.55	497.55
7.....	495.85	495.25	494.55	493.70	493.75	494.30	496.15	496.56	496.80	496.65	497.55	497.55
8.....	495.90	495.25	494.60	493.75	493.70	494.30	496.20	496.55	496.85	496.60	497.55	497.55
9.....	495.85	495.20	494.50	493.75	493.60	494.40	496.15	496.60	496.70	496.65	497.55	497.50
10.....	495.85	495.15	494.50	493.70	493.60	494.35	496.25	496.55	496.70	496.65	497.55	497.50
11.....	495.80	495.20	494.35	493.65	493.60	494.35	496.20	496.50	496.70	496.70	497.55	497.50
12.....	495.80	495.20	494.35	493.70	493.65	494.40	496.25	496.40	496.80	496.70	497.55	497.54
13.....	495.80	495.26	494.25	493.65	493.60	494.40	496.30	496.45	496.85	496.75	497.50	497.50
14.....	495.75	495.26	494.30	493.60	493.65	494.45	496.30	496.40	496.70	496.75	497.55	497.45
15.....	495.75	495.20	494.30	493.60	493.60	494.40	496.35	496.55	496.70	496.80	497.55	497.45
16.....	495.75	495.15	494.30	493.65	493.70	494.45	496.30	496.50	496.70	496.75	497.55	497.45
17.....	495.70	495.10	494.30	493.65	493.70	494.45	496.35	496.60	496.70	496.80	497.50	497.45
18.....	495.65	495.05	494.25	493.65	493.75	494.50	496.35	496.70	496.75	496.80	497.55	497.45
19.....	495.60	495.05	494.20	493.65	493.75	494.55	496.35	496.75	496.80	496.85	497.57	497.50
20.....	495.60	495.00	494.35	493.70	493.70	494.85	496.40	496.80	496.80	496.80	497.54	497.45
21.....	495.60	494.95	494.25	493.70	493.70	494.95	496.35	496.75	496.75	496.90	497.50	497.40
22.....	495.60	494.90	494.25	493.70	493.75	495.20	496.45	496.75	496.80	496.95	497.58	497.43
23.....	495.55	494.85	494.20	493.70	493.75	495.25	496.40	496.80	496.85	497.00	497.55	497.43
24.....	495.55	494.80	494.18	493.75	493.80	495.35	496.45	496.85	496.85	497.15	497.55	497.43
25.....	495.50	494.83	494.17	493.75	493.85	495.40	496.50	496.80	496.90	497.20	497.50	497.40
26.....	495.40	494.80	494.15	493.75	493.85	495.40	496.55	496.75	496.90	497.35	497.54	497.40
27.....	495.40	494.73	494.10	493.80	493.90	495.50	496.60	496.75	496.85	497.40	497.54	497.40
28.....	495.40	494.72	494.10	493.75	494.00	495.55	496.65	496.70	496.85	497.45	497.55	497.35
29.....	495.35	494.70	494.10	493.80	494.10	495.60	496.60	496.85	496.80	497.60	497.54	497.35
30.....	495.35	494.65	494.05	493.80	494.10	495.75	496.55	496.80	496.80	497.60	497.57	497.32
31.....	495.30	494.60	494.00	493.75	494.15	495.80	496.60	496.80	496.80	497.55	497.55	497.32
1927												
1.....	497.32	496.85	496.76	496.00	497.45	498.80	498.07	497.74	497.70	497.40	496.60	495.85
2.....	497.30	496.85	496.75	496.10	497.50	498.85	498.05	497.76	497.70	497.38	496.60	495.85
3.....	497.30	496.80	496.73	496.05	497.55	498.83	498.05	497.75	497.71	497.35	496.57	495.80
4.....	497.30	496.80	496.73	496.05	497.57	498.80	498.10	497.73	497.68	497.32	496.57	495.80
5.....	497.30	496.80	496.70	496.10	497.60	498.84	498.15	497.70	497.73	497.31	496.55	495.82
6.....	497.28	496.85	496.68	496.15	497.61	498.85	498.10	497.75	497.70	497.30	496.50	495.78
7.....	497.30	496.80	496.50	496.20	497.63	498.85	498.13	497.80	497.65	497.30	496.50	495.78
8.....	497.28	496.83	496.50	496.20	497.90	498.84	498.15	497.80	497.65	497.28	496.45	495.77
9.....	497.25	496.75	496.50	496.25	497.95	498.83	498.15	497.75	497.67	497.28	496.45	495.75
10.....	497.21	496.78	496.50	496.25	497.98	498.80	498.20	497.70	497.63	497.27	496.45	495.76
11.....	497.23	496.80	496.55	496.20	498.00	498.78	498.18	497.75	497.62	497.26	496.30	495.75
12.....	497.15	496.80	496.50	496.10	498.05	498.78	498.20	497.75	497.60	497.26	496.38	495.74
13.....	497.15	496.74	496.45	496.25	498.08	498.75	498.23	497.75	497.60	497.24	496.30	495.74
14.....	497.16	496.78	496.40	496.30	498.12	498.73	498.25	497.80	497.58	497.21	496.25	495.74
15.....	497.15	496.79	496.36	496.35	498.20	498.68	498.30	497.75	497.54	497.21	496.25	495.72
16.....	497.10	496.80	496.33	496.45	498.25	498.60	498.38	497.70	497.52	497.21	496.20	495.72
17.....	497.05	496.84	496.28	496.60	498.30	498.56	498.30	497.70	497.50	497.21	496.15	495.72
18.....	497.08	496.85	496.25	496.75	498.40	498.53	498.25	497.75	497.50	497.15	496.15	495.72
19.....	497.05	496.80	496.20	496.90	498.45	498.50	498.20	497.70	497.49	497.05	496.15	495.70
20.....	497.05	496.75	496.15	497.00	498.47	498.44	498.15	497.70	497.49	497.00	496.15	495.73
21.....	496.90	496.80	496.15	497.05	498.50	498.40	498.10	497.70	497.50	496.90	496.15	495.73
22.....	497.00	496.80	496.15	497.15	498.55	498.45	498.05	497.65	497.50	496.90	496.15	495.70
23.....	497.00	496.82	496.17	497.25	498.65	498.40	498.00	497.65	497.50	496.85	496.15	495.70
24.....	496.95	496.76	496.17	497.35	498.65	498.37	497.95	497.70	497.48	496.80	496.10	495.70
25.....	496.95	496.75	496.15	497.40	498.70	498.35	497.90	497.70	497.45	496.87	496.10	495.70
26.....	496.93	496.77	496.10	497.35	498.80	498.30	497.87	497.75	497.45	496.85	496.12	495.72
27.....	496.90	496.78	496.10	497.35	498.85	498.25	497.85	497.70	497.45	496.80	496.10	495.72
28.....	496.90	496.78	496.15	497.40	498.80	498.20	497.80	497.70	497.46	496.70	496.07	495.70
29.....	496.88	496.75	496.15	497.38	498.75	498.20	497.80	497.70	497.44	496.65	496.07	495.70
30.....	496.90	496.75	496.10	497.42	498.78	498.15	497.79	497.75	497.40	496.60	496.07	495.69
31.....	496.85	496.70	496.10	497.40	498.80	498.15	497.76	497.70	497.40	496.65	496.07	495.69

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1.	5305	4555	3830	4677	1332	1844	11705	9720	8915	8359	7180	5744
2.	5270	4555	3830	4665	1350	2138	11746	9620	8316	8767	7180	5800
3.	5250	4555	3810	4665	1356	2560	11849	9800	8878	8730	7180	7116
4.	5270	4525	3810	4350	1368	2960	11767	10600	9600	8676	7180	8280
5.	5195	4490	3810	4115	1380	3450	11685	10320	9780	8658	7180	9480
6.	5195	4270	3810	3682	300	3988	11951	10540	9940	10240	7180	11080
7.	5180	4225	3820	3638	300	4602	11746	10720	8604	10320	7180	11080
8.	5090	4180	3810	3550	300	4853	11787	10800	8010	10280	6555	11080
9.	5090	4180	3760	3450	300	5875	11849	10880	9290	10260	6085	11080
10.	5700	4150	3760	3410	300	6025	11685	11420	9960	10400	5604	11080
Average.	5190	4309	3805	4020	829	3830	11777	10442	9129	9519	6850	9182
11.	4980	4120	3682	3330	300	6385	11541	11787	10680	10540	5105	11080
12.	4980	4090	3594	3270	300	6070	11400	11808	10740	10740	4652	11080
13.	4765	4075	3510	2205	300	6462	10360	13150	10800	10920	4046	11080
14.	4910	4030	3450	2088	300	6865	10440	13150	10760	10222	4057	11080
15.	4910	4030	3360	1990	300	7052	10340	13150	10740	9520	4080	11080
16.	4875	4000	3310	1871	300	7148	10840	13150	10720	8859	4149	11080
17.	4890	4000	4715	1785	300	7052	10940	13150	10720	8226	4218	11080
18.	4835	3975	4840	1610	300	7148	11541	13150	10520	7620	4302	11080
19.	4765	3950	4944	1476	300	7180	12156	13150	9680	7052	4374	11080
20.	4765	3940	4944	1338	300	7212	12156	12999	8804	7180	4434	11080
Average.	4868	4021	4035	2096	300	6857	11171	12864	10426	9088	4342	11080
21.	4730	3930	4944	1230	300	7244	12156	13646	8804	7180	4578	11080
22.	4690	3905	4944	1236	300	8568	12054	13214	8933	7180	4727	11080
23.	4690	3905	4944	1248	300	8785	11767	12784	8989	7180	5132	11080
24.	4710	3905	4944	1260	300	9252	11080	11644	9026	7180	4338	11080
25.	4765	3880	4944	1272	300	9640	10860	10540	9063	7180	3616	11080
26.	4765	3855	4715	1278	300	9960	10640	7308	9081	7180	3977	11080
27.	4690	3820	4702	1290	300	10400	9328	7571	9100	7180	5688	11080
28.	4690	3820	4690	1296	300	10860	10120	7772	9100	7180	5744	11080
29.	4620	3820	4690	1308	300	11320	10360	7976	9007	7180	5800	11080
30.	4590	3820	4677	1320	1642	11644	9940	8190	8933	7180	5800	11080
31.	4540	3820	4677	1740	1740	9840	8010	8010	7180	7180	11080	11080
Average.	4680	3878	4806	1274	553	9767	10740	9878	9004	7180	4940	11080
Monthly mean.	4905	4104	4235	2463	560	6818	11214	11023	9520	8550	5377	10468
1910												
1.	11080	10800	10220	10940	12426	8841	10000	4069	5324	4918	6632	4918
2.	11080	10780	10200	11029	12636	10800	10400	6040	5051	4853	3594	4918
3.	11080	10760	10180	11080	12849	8841	9720	6040	5051	4790	6493	5118
4.	11080	10740	10160	11140	12849	7942	9081	6340	5051	4790	6803	3390
5.	11080	10720	10140	11200	12636	8658	8478	6115	5051	4790	6803	2102
6.	11080	10680	10120	11240	12636	9404	9214	6115	5051	4790	5010	4302
7.	11080	10660	10100	11240	12636	11603	8841	4184	5051	5860	3561	4302
8.	11080	10640	10080	11240	12636	10800	7376	5324	5051	5464	6570	5051
9.	11060	10620	10060	11240	12636	12849	7036	6190	5051	5464	6570	5186
10.	11060	10600	10040	11240	13064	12426	4918	5464	5051	2924	6601	5324
Average.	11076	10700	10130	11158	12700	10216	8496	5588	5078	4364	5864	4461
11.	11040	10580	10020	11240	14372	12849	5604	4790	5051	5744	6570	4362
12.	11040	10560	10000	11240	13712	12321	6648	5186	5051	5744	6725	3510
13.	11020	10540	9980	11240	13712	11808	6958	5324	5186	5965	6070	4069
14.	11020	10520	9960	11240	10000	12849	6803	4422	4918	6190	5464	3954
15.	11000	10500	9940	11240	10100	12218	6648	4422	4918	7116	6570	4790
16.	11000	10480	9920	11200	10200	12300	6340	4422	4918	3017	6725	4542
17.	10980	10460	9900	11400	10200	12218	4918	5051	4918	4299	6725	4422
18.	10980	10440	9880	11460	11000	8748	3726	5051	5051	5254	6725	3310
19.	10960	10420	9860	11541	11603	8785	6115	5186	5051	5965	6725	2408
20.	10960	10400	9840	11644	8028	8841	6040	5186	5051	6040	6725	4069
Average.	11000	10490	9930	11345	11293	11294	5980	4904	5011	5333	6502	3944
21.	10940	10380	9820	11746	9119	8841	5890	4482	5051	5965	4790	4422
22.	10940	10360	9800	11849	9480	9800	5464	3839	5051	6115	6340	4542
23.	10920	10340	9800	11972	9880	9600	4918	5186	5051	5145	5744	4000
24.	10920	10320	9900	12054	11808	11000	4879	5324	5051	4302	5324	3885
25.	10900	10300	10100	12197	11000	10800	4840	5324	5051	6617	5464	3320
26.	10900	10280	10280	12279	8841	10300	4665	5464	5186	6617	5186	2807
27.	10880	10260	10420	12426	10400	9800	4470	6803	4918	6570	3781	2360
28.	10880	10240	10540	12636	12218	9800	5604	5186	5051	6477	2654	3726
29.	10860	10220	10660	12636	11340	9800	5890	3839	5051	6493	4302	4542
30.	10840	10200	10760	12218	10500	9214	6040	5604	4918	5950	4918	4665
31.	10820	10180	10840	12201	9640	9800	4983	5464	5051	5436	4790	4790
Average.	10891	10310	10265	12201	10384	9896	5240	5138	5038	5972	4850	3914
Monthly mean.	10986	10514	10112	11568	11424	10469	6529	5207	5043	5473	5739	4100

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Continued  
[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	2069	2488	2408	2600	3220	6175	3885	5786	6480	5180	4970	5630
2	2032	2488	2448	2600	3919	6175	3420	6710	6515	4110	4850	5615
3	2924	2654	2568	2600	4080	6175	3007	6710	6586	5250	4890	4815
4	3210	2744	3017	2600	3965	5875	3170	6787	5835	5505	4400	4605
5	3115	2288	2654	2600	3965	5590	3350	6942	6056	5500	4220	5570
6	3112	1892	2328	2600	3850	6710	4080	5618	6415	5560	4260	5575
7	3954	2654	2600	2600	3561	6787	4080	6180	6180	5220	4770	5605
8	2969	2798	2600	2600	3300	6787	4043	6555	6300	4475	4785	5690
9	2175	2834	2600	2600	3827	6787	3954	6679	6120	4160	5012	6095
10	3210	2834	2690	2600	4410	6787	3885	6865	5700	4680	4987	5090
Average	2967	2567	2582	2600	3810	6385	3687	6312	6220	4964	4714	5429
11	3410	2744	2600	2600	5037	6741	4230	6865	5690	5470	4760	4635
12	3726	2288	2600	2600	5307	5520	4172	6865	5980	5480	4315	5645
13	3616	1892	2600	2600	5078	6741	4115	4350	5990	5490	4250	5670
14	3510	2600	2600	2600	4314	6725	4080	4820	5950	5050	5060	5660
15	2870	2600	2600	2600	3616	6694	4299	6750	5930	4180	5350	5650
16	2312	2600	2600	2600	5240	6648	4172	6730	5990	4100	5420	5705
17	2744	2600	2600	2600	5875	6570	4057	6470	4948	4675	5445	4940
18	3210	2600	2600	2600	4840	6462	3977	6385	4445	5300	5555	4370
19	2744	2600	2600	2600	5520	4970	3977	6650	6055	5490	3070	5670
20	2654	2600	2600	2600	5950	6325	3450	5134	5838	5470	3895	5700
Average	3080	2512	2600	2600	5078	6340	4052	6102	5682	5071	4712	5365
21	2654	2600	2600	2600	5172	6220	3200	4847	5660	4880	5630	5670
22	2328	2600	2600	2600	4470	6055	3200	6540	5660	4500	5620	5700
23	2052	2600	2600	2600	5800	5875	3605	6585	5570	4480	5595	5640
24	2488	2600	2600	2600	5950	5730	4057	6711	4595	5015	5915	1080
25	2328	2416	2600	2600	5800	5548	3350	6510	4225	5435	6190	2000
26	2408	1824	2600	2600	5800	5307	5875	6740	5150	5445	5110	5355
27	2488	2328	2600	2600	5800	5307	6175	5294	5270	5475	4090	5990
28	2744	2368	2600	2600	4970	5199	6370	4968	5550	5260	5620	6100
29	2328	2600	2600	2600	4230	4230	6632	6500	5520	4410	5650	6085
30	1962	2600	2600	2600	6070	3770	5744	6510	5560	3960	5625	5705
31	2568	2600	2600	2600	6175	4944	4944	6500	4840	4840	5505	3330
Average	2393	2417	2600	2600	5476	5324	4832	6155	5276	4882	5505	4787
Monthly mean	2800	2505	2594	2600	4810	6016	4122	6189	5725	4990	4977	5180
1912												
1	4490	5085	4856	3953	5880	6315	6078	10091	6448	7279	7087	5801
2	5695	5440	4888	5022	5885	5440	5650	10072	5802	7202	7122	6433
3	5565	5815	4197	5028	5915	5325	5880	10077	6170	7039	6181	6725
4	5695	4623	4102	4997	6190	6437	5472	9462	8408	7089	6095	7001
5	5640	3993	5101	5302	5250	6382	5402	8953	8490	7078	7199	6958
6	5815	5105	5037	4984	4795	6410	5905	9825	8363	6190	7146	6655
7	4450	5090	5090	3725	6185	6305	5394	9837	7997	6543	7100	6149
8	3995	5050	5102	3616	6570	6159	5835	9714	7254	7080	7073	5828
9	5725	4985	5063	5049	6910	5971	6932	9333	7266	7080	6791	5860
10	5720	4870	4205	5068	6992	5889	7043	9332	8057	7039	6175	6913
Average	5289	5009	4764	4644	5997	6063	5960	9669	7465	6953	6797	6433
11	5725	4105	4108	4066	6734	6267	8074	8442	7962	7045	5998	6973
12	5940	3990	5105	5119	5435	6239	8285	8299	7799	7100	6568	6072
13	6220	5030	5060	5052	4800	6283	8218	8208	7831	6880	6923	6962
14	3700	5035	5025	4031	6690	6312	7576	8246	7880	6664	7020	6675
15	5080	5000	5046	4409	6695	6255	7494	7965	7260	7083	6955	5412
16	5855	5009	4960	5100	6690	5570	8613	7048	7234	7044	7041	5532
17	5930	5017	3828	5060	6350	5730	8835	7528	7812	7047	5261	7267
18	5900	4119	3890	5045	6355	6042	8148	7720	7570	6852	6511	6987
19	5915	3976	4812	5055	4855	6003	6081	7530	6996	6987	6999	6850
20	5915	5035	5045	5048	5200	6180	7604	8416	6923	6594	7015	6989
Average	5613	4632	4688	4902	5980	6097	7983	7940	7528	6929	6629	6662
21	4700	5044	5096	4130	6730	6261	8633	8194	6588	5824	7089	6762
22	4320	5057	5095	3950	6743	6415	8405	6865	5010	7076	7033	5900
23	5915	5063	5004	5045	6720	5823	8936	6728	6063	7111	7050	4650
24	5920	5014	3560	5055	6770	5693	9012	6932	6930	7070	6174	6581
25	5875	4169	4429	5385	6577	6190	8940	5885	7315	7056	5978	5011
26	5760	4080	5070	5800	4892	5835	9061	6166	8892	7078	7002	4591
27	5495	5068	5022	5900	5175	5969	8105	6614	8223	6135	7054	5995
28	4255	5066	5057	4597	6680	5853	8572	6839	7179	5927	7047	6549
29	3935	5056	5090	4348	6495	5555	9946	7055	6980	6968	6087	5762
30	5080	4910	5865	6350	5267	6959	7152	7024	7076	6422	5137	6737
31	5080	4012	5814	5814	5814	10087	7177	7177	7112	6754	6754	6754
Average	5122	4846	4759	5008	6267	5886	9024	6873	7110	6767	6754	5790
Monthly mean	5334	4828	4738	4851	6088	6016	7700	8120	7368	6881	6727	6280

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Continued

[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1.	6805	6841	6350	6846	6826	5535	11023	9490	5251	6126	5965	5823
2.	6795	5647	5602	6246	6831	6216	11058	8829	6328	6892	5406	6980
3.	6827	6385	5675	5870	6814	6960	11004	9223	6935	6980	5445	6987
4.	6978	6864	6749	6187	5978	6852	11606	9048	7019	6970	6110	6540
5.	5980	6887	6751	6634	6331	6868	11438	9134	6703	6456	6055	6077
6.	5216	6895	6900	4406	6827	6904	11503	9139	6997	6040	5994	6542
7.	6858	6853	6905	5438	6827	6820	10343	9176	5885	6565	6080	5430
8.	6796	6900	6919	6621	6814	6273	10106	10414	7262	6435	6075	5877
9.	6892	5738	5840	6801	6881	6343	9633	10022	6821	6633	5493	6901
10.	6920	5849	5725	6865	6820	6795	10820	9503	7016	6920	5759	6930
Average.	6607	6486	6392	6191	6695	6557	10853	9398	6622	6602	5838	6409
11.	6921	6879	6750	6792	5938	6870	13475	8758	7014	6940	6105	6864
12.	5778	6884	6780	6783	6172	6911	13510	9108	6964	6207	6100	6963
13.	6124	6878	6716	5883	6761	6902	12246	9076	7010	7389	6135	6944
14.	6911	6872	6798	5419	6788	7052	13539	9207	6238	7170	5889	6222
15.	6932	6853	6739	6715	6730	6729	14493	9264	6455	6932	6222	6391
16.	6941	5618	5464	6837	6765	6398	13715	8968	6960	6257	5310	6974
17.	6909	5477	5653	6801	6820	7492	14576	8758	7094	6360	5242	6778
18.	6847	6865	6730	6716	5994	7410	15243	8554	7000	6150	6115	6988
19.	6015	6877	6747	6751	6163	7336	15290	9019	6985	6048	6005	6988
20.	5073	6853	6682	5324	6772	7473	14019	8914	6975	5545	6440	6966
Average.	6455	6606	6506	6402	6490	7057	14011	8973	6869	6500	5956	6808
21.	6956	6894	6752	6254	6796	7468	13187	9136	6535	6080	5675	6205
22.	6945	6844	6715	6368	6777	6689	13221	9118	6909	6140	6558	5945
23.	6909	5631	5598	6706	6760	7324	13254	8888	7060	6105	6237	6095
24.	6937	6054	4921	6758	6785	7814	13331	6232	7026	6100	6468	6118
25.	6955	6864	6840	6726	6162	7840	13225	7229	7015	6120	6780	4908
26.	5896	6847	6813	6746	6088	7856	13262	7022	6994	5474	7175	4608
27.	6273	6830	6811	5873	6749	8798	12802	6965	6915	5550	6931	4201
28.	6856	6830	6775	6180	6550	8832	12844	7005	6121	6070	6979	6225
29.	6928	.....	6800	6696	6889	9673	13292	6967	6600	6105	6606	5525
30.	6977	.....	5946	6913	6896	9863	13732	6665	7030	6026	5519	6065
31.	6981	.....	5990	.....	6906	.....	9794	5660	.....	6075	.....	6299
Average.	6783	6399	6360	6522	6669	8216	12904	7353	6820	5986	6493	5747
Monthly mean..	6620	6561	6417	6372	6620	7277	12599	8535	6770	6350	6096	6303
1914												
1.	6070	6439	6164	6808	6868	7874	7778	10703	10410	10520	7601	11040
2.	6087	6586	6418	6998	6784	8834	8316	8331	10580	10510	8935	10929
3.	6933	6949	6980	6912	5988	8076	8966	9081	10540	10005	10839	11069
4.	6251	7000	6896	6892	6396	9043	8416	10984	10528	7019	10778	10853
5.	5492	7020	6956	6050	6598	8749	6184	10854	10528	8651	10821	10399
6.	6935	6938	6942	6320	6798	8792	7216	10937	7630	10353	10781	7458
7.	6877	6976	6922	6936	6840	6646	10058	10772	4270	10870	10788	8272
8.	6870	6468	5775	6916	6788	7753	9829	10895	9216	10454	8271	10661
9.	6785	6482	6394	6918	6752	9054	10346	8816	10599	10482	9170	11171
10.	6856	6970	7084	6928	5997	9421	10669	9021	10600	10540	10788	10711
Average.	6517	6783	6651	6777	6581	8514	8778	10039	9490	9910	9877	10256
11.	6218	6978	7006	6910	6214	8906	10739	10907	10590	7641	10810	10740
12.	6536	7078	7030	6077	8802	8415	7815	10948	10570	8833	10800	10938
13.	6961	7050	6986	6244	6814	8860	10756	10902	7713	10508	10506	7225
14.	6953	6944	7016	6902	6842	6673	11023	10855	8889	9996	9946	8684
15.	6957	6312	5589	6895	6846	7203	10953	10877	10600	9269	7783	9308
16.	6980	6436	6384	6894	6818	8686	10933	7730	10522	9660	8959	10218
17.	7021	7280	6950	6932	6269	8953	11376	8618	10520	9680	10285	9290
18.	6245	6744	7002	6852	6272	9126	11819	10654	10513	7456	10762	9925
19.	6455	6978	7022	5878	6804	9070	9508	10746	10500	8371	11134	9991
20.	6920	7042	7006	6280	6818	9050	10472	10599	8045	10533	10744	6911
Average.	6725	6884	6799	6586	6650	8494	10539	10284	9846	9195	10173	9323
21.	6950	8023	7016	6900	6864	6968	12061	10578	8848	10462	11145	7834
22.	6921	5967	6180	6834	6832	7644	12441	10549	10512	10671	8192	9124
23.	6959	6410	6392	6868	6856	8745	12775	8549	10542	10991	9190	9313
24.	6957	6974	6958	6878	6102	8916	12541	8871	10505	10397	11059	9566
25.	6326	6988	6850	6876	6620	9466	12445	10607	10515	7007	10911	3448
26.	7140	7018	6944	6052	7398	9504	10773	10609	10414	8977	10891	1224
27.	7036	6998	6928	6252	7432	9104	11503	10628	8187	10648	10003	3710
28.	6958	7020	6928	6862	7940	6606	12262	10658	8073	10848	9416	8318
29.	7004	.....	6056	6796	8630	8198	12522	10628	10520	10808	8317	9950
30.	6936	.....	6270	6856	8954	8670	11247	7735	10385	10801	8171	10410
31.	6685	.....	6880	.....	6963	.....	10657	8725	.....	10739	.....	10017
Average.	6897	6925	6673	6717	7326	8382	11930	9831	9910	10213	9729	.....
Monthly mean..	6719	6859	6706	6693	6868	8463	10464	10044	9749	9787	9926	8994

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

RAINY LAKE INVESTIGATION

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Cont nued  
 RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1.	10092	7153	6660	7778	8089	7200	6161	9181	7466	8534	6284	8312
2.	10320	8292	8352	7652	7406	6356	6171	7942	7441	8396	7309	8467
3.	6610	8175	8374	7438	7460	7263	7066	9920	8023	5796	7621	9109
4.	9030	8291	8296	6763	8264	7306	7809	10107	8784	6761	8042	9108
5.	10460	8083	8318	6807	8272	7276	6084	10200	6446	8130	7349	6126
6.	10052	8281	8308	8080	7973	7711	7630	9742	3494	8126	7339	6944
7.	10057	6792	5760	7755	8213	7363	8746	9592	6036	8134	5368	9230
8.	10277	7193	6619	8090	6940	7851	8289	9310	7840	8096	6010	9186
9.	10360	8245	7509	7866	5165	7781	8102	8952	8205	8096	7436	9389
10.	6981	8247	7357	7520	8135	7773	8250	9340	7742	5561	7430	10040
Average.	9424	7875	7555	7575	7592	7388	7431	9429	7107	7563	7019	8591
11.	8635	8360	7106	5395	8945	8342	7973	9720	7772	6542	7369	9809
12.	10352	8178	7558	6308	9580	7918	8551	9710	7370	8044	7374	7436
13.	10330	7746	7461	7537	9580	6847	8609	9084	6669	7491	7379	8105
14.	10137	6364	5999	8088	9600	7553	8912	9694	7521	7153	5078	9935
15.	9595	6864	6366	8108	7734	6474	9051	8908	7669	6804	6109	9970
16.	9565	8453	7337	8072	8019	6448	8406	8034	7753	6736	6538	9930
17.	9183	8213	7108	8152	8426	6803	7806	8441	7817	5682	6767	9412
18.	8220	8200	7376	5680	7559	7320	8722	8446	8214	5511	7425	9777
19.	9555	8400	7630	6611	8982	7034	7766	8483	6288	6663	7395	7702
20.	9545	7963	7440	8120	8714	8199	9050	8463	7090	6458	6332	8113
Average.	9512	7874	7138	7207	8714	7297	8491	8958	7416	6708	6777	9019
21.	9508	7164	6467	8180	8682	7934	8627	8444	8286	7090	5285	10030
22.	9451	6326	6327	8144	6739	7672	8606	8374	8072	7069	6191	9466
23.	8882	8442	7361	8184	7193	7570	7846	8009	8135	6444	7427	9856
24.	7938	8417	7289	6443	8032	8832	8453	8858	5222	7444	10095	9856
25.	8714	8262	7599	5417	7815	8086	8367	8231	8829	6303	7514	6419
26.	9425	7995	8065	7552	8313	7950	8732	8301	6019	7318	7397	4424
27.	8807	7793	8324	8280	7816	6694	8849	7926	6944	7275	7477	7568
28.	8564	7527	6834	8574	7958	6635	9531	7820	8038	7311	5794	9348
29.	9090	.....	6726	8228	6914	6343	9596	7181	8302	7286	6670	9348
30.	9201	.....	8226	8245	6307	6324	9986	6999	8552	7278	8302	8718
31.	7529	.....	7994	.....	5803	.....	9966	7543	.....	5174	.....	10000
Average.	8828	7741	7374	7725	7173	7324	8994	7935	8004	6704	6950	8752
Monthly mean.	9241	7836	7356	7502	7805	7336	8327	8747	7509	6983	6915	8786
1916												
1.	9386	9208	9910	9940	14237	33279	32765	11961	11650	11303	11197	10635
2.	8029	9235	9875	8545	16745	34734	33138	12059	10892	10834	11178	10676
3.	7697	8998	10364	9795	17261	35452	33704	12115	10229	12079	11195	5760
4.	9142	9171	10657	10698	17452	36329	32158	12665	8001	11448	11168	9690
5.	9367	9026	8735	1076	1878	36779	33491	12725	10019	11045	9661	10733
6.	9317	7648	7870	10675	19801	37259	31812	12450	11686	11066	9454	10946
7.	9254	7566	10108	10706	20022	37281	30677	11618	11407	11036	11018	10732
8.	8776	9158	9860	10665	19317	36827	30529	11991	11378	9960	11098	10681
9.	9235	9835	7061	21221	36817	29522	12016	11363	10279	11087	11087	10674
10.	8138	9146	9845	7980	21546	36940	28600	11923	11123	11239	11047	9358
Average.	8690	8840	9710	9670	18640	36170	31640	12150	10770	11030	10810	9960
11.	10115	9126	9146	10483	21472	37251	27582	12205	9717	11258	11097	8344
12.	10005	9145	8855	10444	22357	36542	27031	13577	10629	11268	8728	10745
13.	9444	7849	8108	10644	23721	36729	26917	13077	10711	11258	9022	10878
14.	8247	8143	9900	10532	23832	36709	26339	13311	10983	11266	10955	10726
15.	9282	9920	9835	9905	22628	36729	25876	14007	11072	9870	11195	10743
16.	7607	9930	9845	8216	22336	36872	24635	14016	11054	10048	11175	10733
17.	8233	9950	10201	6364	22996	36729	24071	14006	10227	11286	11154	5702
18.	10065	10495	10298	6617	23019	36406	22748	13996	10447	11296	10898	9600
19.	9799	10251	8874	6220	23073	36314	21243	13871	10608	11276	8876	10204
20.	9055	8236	8497	6416	24167	36119	20508	12653	6519	11249	8450	10208
Average.	9290	9310	9360	8590	23020	36640	24700	13470	10200	11010	10150	9730
21.	8604	8311	9900	6636	24895	36097	19294	13527	6303	11239	11205	10624
22.	8604	10010	9930	8192	26069	36167	18149	13950	10264	10960	8153	10823
23.	7509	9935	9920	8319	27168	35767	17631	12650	12336	9678	5506	10773
24.	7490	9950	9800	8297	27198	35357	17357	11408	11612	11268	9655	9596
25.	9261	9970	9920	9860	28181	35483	16144	11322	11161	11241	9445	1449
26.	9250	9940	9113	10169	29025	35142	16456	12212	11620	11237	7376	7307
27.	9127	8971	8158	10802	29560	34853	16873	9990	11321	11241	10420	10168
28.	9238	8348	10134	11747	31035	34866	16183	11041	11364	11226	10886	10563
29.	9252	9920	10722	13230	31872	34827	15389	12137	11710	9738	10658	9015
30.	7880	.....	10121	12218	32119	34847	15988	12127	12496	9952	10596	10652
31.	7559	.....	9940	.....	32930	.....	12912	12157	.....	11225	.....	7635
Average.	8530	9480	9800	9950	29100	35340	16580	12050	11020	10760	9390	8960
Monthly mean.	8820	9200	9630	9400	23760	36050	24060	12540	10660	10920	10120	9540

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Continued  
 RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1	8720	10734	10811	8981	10336	10405	9342	9656	8353	5319	6296	6523
2	10756	10754	10725	9542	10339	10403	7027	9866	7431	6076	6351	6265
3	10784	10654	10638	10481	10409	7263	7381	9981	4260	6362	5830	6236
4	10913	8259	8614	10410	10381	9560	7477	9916	6421	6408	5126	6201
5	10846	9329	8951	10453	10426	10418	9086	5543	8402	6158	4480	5343
6	10896	10795	10620	10402	9352	10348	9966	9512	8373	6098	4163	5604
7	10010	10795	10570	10356	9803	10497	10036	9880	8393	5241	5144	6605
8	9154	10785	10616	8889	10439	10477	8924	9607	8313	5663	5144	6575
9	10814	10955	10657	9174	10392	10387	9356	9781	7887	6966	5177	4652
10	10826	10743	10674	10358	10453	9065	10023	10006	7848	6382	5177	3979
Average	10370	10380	10290	9905	10231	9882	8962	9380	7570	6070	5290	5800
11	10866	8124	8401	10396	10353	9509	10023	10113	8032	6326	4716	4257
12	10926	9933	9185	11575	10423	9962	9868	8330	7223	6359	4614	5108
13	10785	10756	10533	12661	9679	8324	9923	9801	7136	6272	5211	5750
14	7942	10731	10456	12467	9708	7348	10028	10314	7380	3912	5184	4684
15	9470	10771	10515	8942	10373	7376	9576	8084	7383	484c	5088	4744
16	10900	10707	10415	9234	10657	7832	9903	8340	6783	6240	5146	4371
17	10818	9223	10438	10468	10412	7760	9878	8480	7158	6230	5084	4784
18	10855	7827	9316	10565	10347	6453	9058	9060	7446	6190	2513	5174
19	10835	9764	9397	10735	10692	6782	9938	7750	7383	2920	4818	5847
20	10805	10726	10390	10513	9080	9635	9918	9020	7201	2136	6520	5435
Average	10420	9860	9910	10756	10167	8049	9901	8930	7310	5200	4890	5020
21	9702	10581	10456	10422	9862	10519	9948	8850	6921	2969	6379	5550
22	8402	10827	10386	9158	10345	10298	9203	8930	6775	5119	6233	5434
23	10876	10757	10347	9958	10484	10357	8736	9050	5125	5653	6656	4474
24	10778	10767	10437	10305	10594	9849	9962	9430	6300	6353	7001	4202
25	10756	7955	8254	10246	10514	10048	9856	9083	6325	6531	6927	1206
26	10691	9691	9119	10328	10434	10357	10011	7485	6246	6566	6656	3402
27	10470	10696	10424	10406	7980	10398	9891	8553	6303	6567	6511	5724
28	9507	10648	10557	10552	9721	10055	9898	9109	6228	5822	6081	5594
29	9803		10410	9469	10331	10388	8432	8904	6211	6035	6418	5092
30	10682		10420	10062	10375	10398	9775	9034	4050	6530	6541	5702
31	10830		10350		10395		9912	8986		6352		4837
Average	10230	10240	10110	10091	10094	10267	9602	8860	6050	5860	6600	4710
Monthly mean..	10336	10153	10102	10250	10162	9399	9492	9047	6976	5714	5593	5160
1918												
1	5401	3544	3433	3310	3462	4837	2605	7481	6359	6051	6021	5628
2	5781	3478	3436	4234	3744	3273	3630	7257	4107	6101	6093	4881
3	5792	1845	3524	4174	4230	4533	4288	7593	5934	6602	5282	6175
4	5526	2094	3566	4268	4068	4771	4225	6372	7381	6774	5131	6588
5	5114	3588	3948	4208	4055	5056	3648	6285	7878	5895	5151	7246
6	5353	3784	3982	4254	3708	5160	6656	7095	7823	6294	5167	7060
7	5208	3734	3892	3608	4501	5228	4530	7350	6300	6749	3747	7199
8	5146	3784	3894	3844	5017	5536	4971	7570	5321	6641	4463	5626
9	5840	3732	3738	4268	5021	3481	5762	7938	6201	6856	5950	4938
10	5405	2044	3778	4214	5045	4997	5736	8224	7251	7716	5068	6396
Average	5457	3163	3720	4038	4290	4690	4610	7317	6460	6570	5210	6170
11	4817	2044	3116	4238	4737	5413	5770	6839	7340	7731	4989	6530
12	5118	3298	3792	4308	3798	4944	6269	6799	7770	8123	5137	6518
13	4958	3145	3496	4228	3628	4705	5781	8050	8120	7224	5021	6512
14	4577	3278	3616	4327	4256	4749	4357	8871	7900	6197	5158	6811
15	4477	3352	3684	3524	4302	5248	4317	8876	7330	7022	5848	6068
16	4019	3332	3570	3932	4388	2948	4919	8701	7090	7381	5490	5934
17	4260	2935	3636	3910	4310	4290	5261	8533	6790	7534	4663	6486
18	2991	3108	3474	3984	4364	5057	6141	5623	6280	7850	4807	6437
19	4317	3473	3630	4248	3604	5326	6176	7595	6380	7694	5213	6429
20	4158	3548	3692	4507	3994	5277	6877	9195	6830	5547	5303	6468
Average	4369	3151	3570	4121	4140	4800	5560	7908	7180	7230	5160	6420
21	3885	3603	4026	3530	4322	5520	6772	6681	6570	5947	5133	5357
22	3952	3555	4086	3741	4364	5412	7029	4844	6630	7642	4963	4275
23	3742	3534	4036	4174	4316	4363	7112	8356	7070	8263	5640	5117
24	3712	3732	3554	4030	4948	4566	7030	7342	6220	8391	5236	4340
25	3654	3347	3676	4050	5139	5314	6836	5375	6790	8059	5186	860
26	3748	3594	4018	4004	4058	4800	7353	6136	6610	6861	5718	3936
27	3037	3581	4066	4573	3818	5438	7712	6977	6500	5521	5979	6470
28	2482	3053	3976	2802	4348	5707	6434	7859	6700	5108	3249	6524
29	3648		3674	3889	4370	5489	5222	8106	5590	5643	4439	5827
30	3628		4158	4094	4690	4907	7144	8234	6620	5869	5580	6039
31	3534		3812		5140		7076	8204		6091		6339
Average	3547	3500	3920	3889	4500	5150	6890	7100	6530	6670	5110	5510
Monthly mean..	4428	3255	3741	4016	4313	4878	5731	7431	6723	6818	5161	5839

RAINY LAKE INVESTIGATION

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Continued  
RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD  
(Cubic feet per second)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1	6430	7575	7325	5194	6724	4678	6306	9959	2284	9455	8090	6678
2	6821	4722	6496	5133	6319	6763	8242	10624	5810	9601	7054	6594
3	7153	6813	6429	4920	7074	6500	10147	7071	10158	9834	7003	6789
4	6810	7114	7426	4389	5748	4920	8717	9758	9854	9417	8298	6550
5	5854	7042	7065	4414	6696	9257	9281	10628	9065	8013	7586	6684
6	5284	7192	6940	4678	6737	9819	11831	10460	8487	7683	8145	6558
7	5718	7276	6588	4824	6576	9215	13651	10130	7855	9370	8099	4935
8	6098	7207	6526	4741	6760	7181	12531	10571	8515	9520	8140	6117
9	6741	5253	5494	5248	7055	5597	10075	10239	9584	9345	6138	6363
10	6952	6250	5751	5203	6866	7860	11900	7755	9241	9257	7092	6493
Average	6390	6640	6600	4870	6660	7180	10270	9700	8090	9150	7570	6380
11	7201	6583	6246	5319	5464	9182	13930	9615	8957	8073	7025	6981
12	5420	6993	6605	5335	2123	8804	14890	10664	9075	7083	7918	6863
13	7261	7384	5547	5494	650	8374	13636	10534	9074	8198	7641	6293
14	7028	6857	7473	5880	610	8343	12046	10319	8084	8809	7343	4578
15	6860	6641	6467	4890	700	6828	11869	10557	8827	8954	7843	6473
16	7713	4105	5020	4815	886	7761	11103	10142	9670	8861	6198	6724
17	7434	5477	4985	4914	1140	9179	10626	8748	9396	8508	7009	6303
18	7606	6430	5238	4908	1090	9144	10680	9664	9264	9057	7641	6275
19	5710	7524	4917	4849	1140	8698	10124	9811	9815	7543	7061	6508
20	6448	7356	5067	4291	1200	9047	9705	10380	9179	7304	6730	6523
Average	6870	6530	5960	5070	1500	8540	11860	10040	9130	8240	7290	6350
21	7260	7363	5377	5486	1200	9164	9626	10521	7799	8851	7277	5023
22	7397	7129	4942	5598	1190	7120	10804	10221	8728	8771	8036	6786
23	7770	4243	5594	5998	4704	7300	10460	9956	9726	9106	5591	6276
24	7333	5792	5803	5802	7109	9000	10160	7980	9610	8807	7364	4695
25	6890	7533	4664	5494	7101	8980	9813	8862	9707	8355	6151	3141
26	5516	7532	4694	6074	7107	8983	10100	10276	9444	5551	7191	4478
27	6584	8000	5631	4635	7659	9230	8591	10511	9008	7344	6894	6233
28	7023	8251	5576	6793	7414	9438	8269	10491	6998	7913	7433	4473
29	7714		5377	6088	8352	7859	10060	10445	8483	8120	7300	5235
30	7587		5526	6396	8009	8093	10418	10515	9645	7965	6029	6076
31	7125		5388		8533		10071	9090		7912		5809
Average	7110	6980	5320	5840	6220	8520	9850	9900	8920	8063	6930	5290
Monthly mean	6798	6710	5940	5047	4837	8077	10634	9880	8711	8470	7266	5984
1920												
1	6151	5287	5421	7727	7950	8472	18655	15313	10342	6955	6823	6214
2	5712	6782	7658	7849	5359	9063	19130	11798	10149	6976	7198	6284
3	7524	7076	7703	7879	6885	9491	19197	11405	10328	5394	8122	6309
4	5029	6656	7431	6696	8053	9936	19398	11190	9583	6117	7557	5761
5	6264	7274	7312	7226	8325	9183	19833	10313	5310	6680	8670	4628
6	6389	7685	7481	8428	8395	7173	20095	9455	6741	6740	7748	5108
7	6571	7168	6098	8223	7993	8013	16587	10160	7786	6980	6363	4912
8	6678	4140	6639	8140	7714	9523	13193	7598	9180	6856	6410	4922
9	5851	6331	7615	8373	5409	8468	12503	6354	9340	6966	7671	4653
10	5851	7270	7442	8350	7894	9568	12337	10038	8928	5175	7340	4643
Average	6200	6570	7080	7890	7400	8930	17140	10660	8760	6490	7390	5340
11	5771	7316	7807	6499	8021	9267	12614	11223	8534	6831	7734	4264
12	6686	7628	7506	7004	8147	9450	11669	12410	6994	7094	7273	3409
13	6600	7563	7851	8293	8201	7806	14036	11971	6691	7196	7866	4790
14	6270	7613	7086	8351	8252	8213	14441	10993	7879	7130	5749	5330
15	6457	5749	6743	8246	8282	9005	15160	9092	8033	6990	6651	4706
16	6058	7456	7566	7906	5781	8723	16400	9514	7963	6600	7347	4348
17	6594	7580	7688	7831	8008	9254	15703	10992	7953	4852	7232	4219
18	4560	7253	7554	6408	8595	9482	12787	7918	5791	7082	3717	
19	6786	7212	7532	7639	8178	8702	12592	10541	6557	6180	7260	3641
20	6946	7071	7671	8154	8128	8832	11832	9991	6901	6203	7208	4109
Average	6270	7240	7500	7630	7970	8980	13720	10750	7540	6490	7130	4150
21	6894	6385	6091	8509	8074	10622	11068	9950	7943	6377	5631	5000
22	6666	4957	6375	8452	8157	11020	11092	7894	7986	6117	5772	4450
23	6848	6079	7510	8618	6823	11675	12363	9678	7790	6246	6870	4550
24	6812	7237	7621	8381	6167	12774	12885	10007	7979	5263	6730	3976
25	6086	7099	6905	6648	7694	14251	12638	9694	7175	6321	6436	1868
26	5734	7435	7834	7479	7953	16045	13071	10216	4829	7480	6799	1913
27	6934	7735	7292	8391	8636	10743	12960	10016	5038	8024	6482	3487
28	7573	7527	6202	8923	8599	10810	14161	9995	6764	8133	4855	4778
29	7825	5856	6673	8118	8076	16641	16683	7480	6457	8133	6302	4983
30	7754		7176	8374	6611	17183	17588	8552	6916	7638	6414	5073
31	7734		7683		7648		17546	10403		5621		5133
Average	6990	6700	7030	8130	7670	14380	13820	9390	6890	6850	6230	4110
Monthly mean	6503	6842	7197	7884	7679	10763	14861	10239	7729	6618	6918	4554



DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Continued  
 RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1.	4622	5886	6793	7020	5285	5265	5640	5841	4990	5842	6070	6970
2.	4491	5848	7164	7033	4593	5250	5650	6795	5070	4983	6640	7698
3.	4755	6094	7180	6482	5260	6110	5730	6681	5055	5818	6283	7185
4.	5569	6143	7036	6838	5337	7220	4600	6653	5438	6703	7040	4980
5.	6159	5930	7206	7866	5336	7260	5297	6606	5821	6686	6420	6640
6.	5849	3533	4142	7795	5390	7080	6828	5937	5593	6273	5246	7036
7.	5008	2765	5579	7650	5330	7190	7820	4686	5670	5706	5730	6840
8.	5268	3524	7043	8101	5140	7225	7790	5634	5578	5583	5880	7090
9.	4004	3665	7083	6892	5240	7125	8190	6723	7151	4805	6770	6863
10.	6012	2938	7223	5606	5270	6300	5969	6953	7230	4989	6935	7460
Average.	5260	4640	6640	7140	5220	6600	6350	6250	5760	5740	6300	6880
11.	6004	3204	7103	6704	5350	5390	7568	6369	6328	5169	7217	4960
12.	6326	2580	7025	7687	5370	5310	8704	5541	6266	5249	7454	6830
13.	6449	2500	5092	7648	5300	5265	8278	5746	7650	5339	4830	6810
14.	6180	2786	5438	8025	5270	5340	8985	4536	7987	5369	6870	7210
15.	6331	3386	6108	7830	5240	5350	8604	5238	8286	5219	7347	7630
16.	4474	3688	6519	8100	6080	5330	8378	5146	8973	4900	7619	8065
17.	5532	3678	6523	5753	7010	5330	5586	5237	8883	4991	7781	7730
18.	5930	3953	6525	7687	7140	5370	7002	5535	6610	5319	7516	5257
19.	6119	3840	6478	8260	7045	5250	7600	5177	6750	5364	6944	7020
20.	5943	3063	4120	7670	7130	5240	7600	5020	8270	5591	4922	7550
Average.	5930	3270	6090	7540	6090	5320	7830	5350	7600	5250	6850	6910
21.	6103	2800	6160	8416	7110	5340	8220	4531	8546	5825	6209	8084
22.	6090	3868	6294	7856	6950	5245	7649	4622	8105	6231	7875	7878
23.	5321	4040	6723	7594	7140	5360	6636	5434	7582	5260	7205	8518
24.	5366	4190	7161	7050	5995	5350	5466	5165	6651	6174	7370	7483
25.	6115	3370	7221	7570	5290	5350	6470	5178	5238	6314	7790	1832
26.	6220	3334	7201	8300	5390	5230	7453	5235	6018	7182	7153	5881
27.	6179	2904	5377	8916	5290	5330	7540	5188	7049	6170	4876	7428
28.	6754	4989	6605	8946	5125	5250	7590	4860	4635	6624	6176	8202
29.	6694	.....	7468	8834	5120	5375	7359	5470	6587	6415	7010	8279
30.	4788	.....	7639	8987	5275	6196	7745	5696	5804	5066	7219	7863
31.	5685	.....	7844	.....	5155	.....	6111	5080	.....	5890	.....	7738
Average.	5940	3690	6880	8250	5800	5400	7110	5130	6830	6100	6890	7200
Monthly mean.	5717	3876	6550	7640	5708	5774	7098	5565	6730	5712	6679	7000
1922												
1.	5796	7605	7793	7870	8160	9674	6770	7909	8356	5507	7015	7050
2.	6094	8024	8070	4893	8883	9785	5830	7845	8281	7124	7035	6600
3.	7744	7975	8525	5460	9373	10011	7950	7964	5295	7290	7170	4955
4.	7890	8324	8779	6623	8273	6168	5268	7939	3560	7330	7420	6760
5.	7453	4590	5195	6500	9433	10510	7000	8259	4834	7270	5825	6970
6.	7508	6474	7050	6230	9275	10520	9198	5698	7900	7010	7215	7360
7.	7418	6316	8190	6360	8770	10668	9340	7029	8570	6990	7425	7450
8.	4316	6628	8134	6215	8163	10530	8530	8024	8176	5264	7240	7080
9.	6062	6640	8170	2694	8990	10456	6764	7924	8025	6985	7470	6340
10.	6470	6540	8220	5139	8870	10413	7713	7894	5465	6980	7490	3700
Average.	6680	6910	7810	5800	8970	9870	7440	7650	6850	6780	7130	6430
11.	6246	6905	8023	6480	9760	8015	8713	8234	6624	6908	7510	6940
12.	6300	5180	5246	6370	9685	8598	9101	8144	7586	6710	5710	6990
13.	6160	5340	6520	6630	9615	9625	8991	5750	7616	6555	6990	6830
14.	5575	6370	8135	6785	7698	9574	9534	7318	7596	6595	7320	6990
15.	3811	6320	8295	6985	4490	9670	9516	8364	7690	4950	7140	6880
16.	5240	6835	7620	5186	4030	9524	6855	8294	7539	6500	7440	6960
17.	7074	6855	7720	7790	9942	9676	7810	8085	5985	7050	7320	4750
18.	7018	6960	7640	8675	10369	7728	8998	8250	6650	7100	7250	7390
19.	6350	4980	4605	8504	10410	9306	9148	8554	7573	7260	5380	6980
20.	6470	6460	6235	8814	10410	9525	9046	5690	7736	6980	7210	7170
Average.	6020	6220	7000	7230	8640	9120	8770	7670	7260	6660	6930	6790
21.	6540	7789	7775	8822	9227	9630	9221	7048	7996	6655	7140	7370
22.	3770	7836	7555	8926	7926	5910	8890	8194	7950	4974	7140	7580
23.	5870	7666	7565	6965	10000	9518	5545	7981	7720	6870	7120	7134
24.	8070	8300	7181	8310	9840	9453	7721	8200	5283	6850	7380	6135
25.	7170	7905	7335	8942	10210	7029	9318	8376	7037	7180	6710	1480
26.	6990	5558	4509	8928	10538	8300	9258	8410	7650	7250	5180	5640
27.	6790	6630	5720	9216	10310	9730	8675	5560	7690	7262	7150	7020
28.	7135	7621	7405	9234	7930	9750	8629	6900	7820	7073	7310	7150
29.	4840	.....	7255	9058	7900	9720	8229	7900	7640	4990	7280	7680
30.	5984	.....	7445	6254	10226	9670	6090	8350	7390	7255	7230	7940
31.	3710	.....	7930	.....	9865	.....	6955	8590	.....	7475	.....	5290
Average.	6410	7410	7060	8470	9450	9230	8050	7770	7420	6700	6960	6420
Monthly mean.	6370	6810	7290	7160	9040	9410	8080	7700	7170	6710	7010	6540

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Continued  
 RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	July	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1.	6360	7730	7960	5580	3110	6770	6460	6590	5520	4890	3690	3805
2.	6510	8040	7880	8310	1100	7095	5590	6600	4100	5360	3720	4080
3.	8130	7160	8460	5680	1160	6535	6115	6515	2400	5280	5220	3650
4.	7540	6230	6710	5750	2560	6220	4220	5015	3930	5700	4580	3790
5.	7470	7800	8030	5685	5640	6340	6790	6435	5360	5640	3770	3820
6.	7040	7610	8280	5120	5650	6885	5220	5950	5590	5680	3940	3850
7.	5690	7560	8300	5120	5700	6815	6610	6580	5490	5720	4160	3965
8.	7285	8150	8410	4220	5875	6485	4535	6450	5340	5170	4020	3825
9.	7370	8120	8330	5525	5760	6725	5740	6320	4980	5370	3980	4085
10.	7250	8055	8140	5350	5785	5510	6845	6130	5050	5640	4355	3850
Average.	6970	7740	8050	5330	4230	6540	5810	6260	4770	5440	4040	3870
11.	7250	8150	7570	5355	5740	6165	6530	6100	5350	5460	4255	3410
12.	7230	7440	8360	5470	5765	6315	6460	5785	5470	5420	3985	3955
13.	7020	7725	7520	5480	6135	6795	6290	5580	5390	4900	3900	3950
14.	6000	7990	7510	5390	6885	6670	6725	6360	5480	5030	3870	4320
15.	7510	8000	7565	5530	6490	6580	6160	5875	5490	4930	3830	4500
16.	7270	7580	7985	4910	6480	6030	5730	5640	5220	4725	3850	4405
17.	7460	7315	7395	4930	6565	6350	6260	5690	5060	4000	4010	4340
18.	6600	7300	5860	5315	6080	6910	6580	5725	5490	3690	3890	4500
19.	7600	7530	6385	5200	5855	6805	6790	5400	5410	3335	4060	4550
20.	7670	7510	6780	5230	6435	7170	7620	5300	5610	3365	3975	4280
Average.	7160	7650	7290	5280	6240	6580	6510	5750	5400	4490	3960	4220
21.	6590	7465	6430	5280	7180	7220	6670	5460	5560	3620	4040	4300
22.	6515	7205	6445	5090	7110	7030	6410	5580	5440	3815	3975	4450
23.	7690	8065	6410	5065	7065	7340	6680	5610	4980	3985	4055	3945
24.	7680	8150	6437	5310	6580	5950	6930	5580	4650	3790	3895	3625
25.	8040	7745	5410	5120	6590	6130	6800	5480	5430	4025	4135	2970
26.	8140	7540	6305	5100	6080	6630	6850	5290	5370	4030	3695	3885
27.	8330	8480	6370	5340	6340	6800	6570	4990	5450	4040	3735	4510
28.	6970	8330	6420	5260	6710	7315	6660	5390	5300	4075	3845	4340
29.	7770	6035	6090	6355	7455	6375	6375	5540	5200	3870	3775	4350
30.	7660	5790	5740	6765	7220	6205	5370	5010	3790	3790	3885	4435
31.	7790	5730	6765	6765	6765	6450	5510	3750	3750	3750	4430	4430
Average.	7560	7870	6160	5340	6690	6910	6600	5440	5240	3890	3900	4110
Monthly mean.	7430	7870	7140	5320	5750	6680	6320	5800	5140	4580	3970	4070
1924												
1.	5010	4270	3430	3850	4110	3760	4610	4270	1960	2850	2935	3730
2.	4830	4020	1735	3810	4100	3795	4840	4150	3355	2860	2685	3740
3.	4830	1580	3155	3860	4000	3635	4180	3555	3155	2935	3540	3880
4.	4880	2725	3545	2910	3595	3780	3685	3455	3105	3195	3540	3900
5.	5000	3120	3395	3510	4525	3670	3270	3085	3355	3900	3795	3750
6.	3940	3525	3515	4100	4620	3660	3100	2565	3495	3170	3745	3760
7.	4945	3505	3555	4085	4875	3640	4195	2680	3490	3040	3905	3765
8.	5020	3375	3415	3705	4755	3525	4100	4280	3495	3110	3705	3650
9.	4980	3195	2440	4055	4695	3560	4340	4280	3580	3105	3320	3470
10.	4915	2010	3380	4045	4675	3760	4310	3220	3580	3035	3895	3400
Average.	4840	3130	3160	3790	4400	3680	4060	3550	3260	3120	3510	3700
11.	4885	3255	3405	3950	3770	3990	4360	4590	3650	3065	4335	3425
12.	4825	3705	3385	4380	4145	3820	4320	4350	3490	3685	4500	3375
13.	3770	3880	3565	3480	4115	3885	3965	4620	3470	2985	4460	3550
14.	3940	3455	3745	3975	4140	3855	4290	4650	3530	3015	4405	3600
15.	3810	3210	3575	4040	4120	3945	4260	3930	2735	3155	4435	3580
16.	4115	3030	2435	4105	4030	4430	4155	3660	3045	3020	3580	3620
17.	3985	1950	3345	4035	3870	4490	4450	3205	2895	2930	3535	3615
18.	3960	3370	3605	4030	3550	4520	4100	3855	3115	2905	3525	4115
19.	3960	3415	3570	4080	4270	4825	4060	3795	3125	2745	3640	3725
20.	3280	3160	3670	3495	4125	5040	3540	3830	3145	3030	3745	3750
Average.	4050	3240	3430	3960	4010	4280	4150	4050	3220	3050	4020	3640
21.	4070	3095	3595	3885	4150	4940	4015	3610	3390	2945	3835	3790
22.	4005	3125	3645	3845	4275	4090	4260	3805	3210	2905	3865	3790
23.	3930	3105	2090	3870	3985	5080	4150	3735	2825	2965	3450	3630
24.	3913	1495	3340	3970	4055	5185	4095	3530	2845	3595	3855	3370
25.	4035	2965	3805	4100	3510	5020	3865	3660	2780	3765	3755	1635
26.	4175	3330	3895	4030	4170	5160	4120	3710	2785	2815	3755	3185
27.	2900	3175	3875	3935	4220	5170	4195	3825	2735	3720	3840	3825
28.	3965	3560	3810	4080	3850	5100	4370	3560	3590	3940	3605	3440
29.	4390	3390	3690	4000	3535	4135	4210	4515	3210	3690	3535	3635
30.	4325	3320	4165	3705	4725	4200	4870	3070	3330	3650	3630	3630
31.	4495	3765	3990	3625	3920	4350	3985	3375	3375	3375	3600	3600
Average.	4010	3030	3530	3990	3920	4860	4170	3890	3040	3360	3710	3410
Monthly mean.	4290	3140	3380	3910	4100	4270	4130	3830	3170	3180	3750	3580

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Continued  
 RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	3680	3540	3950	5290	6315	6055	6630	5870	4460	6455	4985	6190
2	3700	3665	3920	5210	6370	6260	8035	3920	4560	6355	6475	5980
3	3650	3645	3750	4950	5750	6940	8530	6350	4115	6295	6400	5940
4	3500	3470	3610	5140	6225	6990	4050	7225	4255	4145	6435	6015
5	3400	3530	3790	4545	6225	6990	5205	7185	4910	6055	6480	6055
6	3640	3255	3670	5215	6260	6850	8340	6950	4045	6375	6420	4190
7	3560	3335	4140	5180	6260	3810	8580	7000	4980	6340	6415	6110
8	3505	3310	4050	4840	6280	6360	8565	7050	6465	6320	4100	6355
9	3410	3450	3775	4930	6260	6800	8260	4450	6370	6320	5725	6680
10	3510	3570	3885	5310	5370	6810	8250	6075	6330	6370	5875	6790
Average	3560	3480	3850	5060	6130	6390	7440	6210	5050	6100	5930	6030
11	3440	3540	3870	5390	5960	6830	8145	6540	6410	4145	6145	7665
12	3675	3530	3775	3700	6120	6820	5660	6320	6375	6005	5935	7715
13	3655	3405	3740	5250	6080	6890	7585	6350	4875	6220	6110	5365
14	3505	3475	3925	5205	6285	5120	8185	6370	6060	6500	6110	6445
15	3545	3570	3835	5390	6030	7035	8220	6340	6510	6100	4835	6490
16	4505	3530	4480	4720	5640	7365	7950	4035	6510	6160	5660	6745
17	4080	3550	4575	4455	4650	7300	8070	5940	6320	6065	5915	6620
18	3740	3440	4460	4405	5485	7225	7570	6460	6540	4100	6385	6540
19	3620	3480	4660	4705	6165	7340	5510	6480	6190	6110	6090	6625
20	3520	3480	4480	4505	6360	7275	7645	6440	3540	6480	6310	5205
Average	3730	3500	4180	4770	5880	6920	7450	6130	5980	5790	5950	6540
21	3560	3410	4400	4365	6210	5145	8185	6240	5995	6380	6510	6495
22	3520	3590	4495	4375	6025	6840	8180	6240	6405	5890	3990	6610
23	3560	3735	4415	5040	6000	7440	8165	3840	6475	6120	5750	6680
24	3580	3770	4990	5395	4705	7370	8015	6975	6675	6140	6115	5310
25	3550	3690	4985	5700	5970	7360	7530	6345	6565	3550	6365	1725
26	3460	3515	5145	5480	6245	7350	4295	6605	6370	5895	6010	5365
27	3570	3585	5320	5260	6305	7210	6170	6510	4220	6100	6220	5135
8	3625	3690	5340	5325	6270	5225	6450	6295	6235	6150	6045	6150
9	3740	.....	4605	5395	6305	7295	6450	6355	6450	5745	5345	6325
30	3710	.....	5405	5800	6625	7905	6250	3140	6405	5555	5705	5990
31	3570	.....	5165	.....	4575	.....	5800	4445	.....	5755	.....	6300
Average	3590	3620	4930	5210	5930	6910	6890	5640	6170	5750	5810	5640
Monthly mean	3620	3520	4340	5020	5980	6740	7240	5980	5730	5880	5900	6060
1926												
1	6335	6290	5525	6665	5585	5445	3850	5525	9080	9390	16080	12170
2	6405	6580	5860	6390	4820	5515	5665	7130	9070	9455	17870	12155
3	5190	6605	6770	6500	5060	5495	5365	7660	9090	7000	17850	12290
4	5685	6510	5660	5285	5570	5505	3200	7810	9150	9050	17900	12280
5	6375	6125	5795	6175	5575	5315	3745	7770	4185	9425	17890	9875
6	6075	5920	5720	6515	5540	3535	5700	7310	3335	9245	16530	11155
7	6310	4995	5215	6475	5600	5385	6090	7340	7555	9905	15370	12115
8	6490	6255	5730	6510	5630	5830	6100	5730	8705	9560	15150	12065
9	6300	6065	5760	6430	3955	5490	6090	7490	9065	9480	14400	12160
10	4705	6370	5695	6580	5565	5625	6545	7930	9135	6930	13470	11820
Average	5990	6230	5670	6350	5290	5310	5240	7170	7840	8940	16250	11820
11	6070	6370	5695	5140	5865	5530	5080	8040	9125	9005	12615	11815
12	6430	6580	5680	6055	5810	5465	6355	7930	6040	8555	12680	10655
13	5865	6530	5650	6480	5605	4220	6600	8000	6980	8340	13200	11580
14	5600	4950	5830	6330	5685	5315	6755	7930	8220	10350	12420	11895
15	5515	5975	6135	5735	5735	5375	6940	5380	8375	11140	13090	11780
16	5660	6160	6365	5915	4205	5575	7850	7550	8910	10920	14000	11735
17	4670	6225	6370	5730	5555	5435	7750	8580	8905	7700	13975	11620
18	5840	5915	6395	4870	5365	5465	5620	8550	8445	10255	13825	11715
19	6445	5590	6515	5340	5065	5375	7645	8570	5995	11250	14280	11400
20	6490	5690	6425	5595	5330	4415	8420	8610	7770	11980	15640	11495
Average	5850	6000	6110	5720	5420	5220	6900	7910	7880	10150	13570	11560
21	5975	5135	5105	5565	5110	5080	8540	8640	8535	12800	13860	11440
22	5725	5560	6050	5610	5325	5385	8450	6195	8355	12800	14565	12110
23	5825	5660	6815	5745	3540	5210	8490	8395	8435	13830	13795	12065
24	4780	5860	6455	5680	5155	5290	8150	9100	9795	13780	11760	10860
25	6045	5910	6505	4025	5320	5395	5900	9110	9080	15510	11800	3525
26	6440	5675	6550	5275	5230	5400	8010	9190	7050	16250	11960	6910
27	6180	5925	6580	5795	5260	3990	8265	9080	8685	15145	11705	11910
28	6080	4620	5015	5835	5160	5190	7830	8750	9755	13535	11110	12755
29	5775	.....	6230	6035	5345	5430	7750	4790	9635	13670	11975	12700
30	5665	.....	7050	5860	4150	5480	7815	8440	9065	15430	11380	12450
31	5150	.....	7135	.....	5235	.....	7800	9140	.....	14700	.....	12780
Average	5790	5540	6320	5540	4980	5190	7910	8260	8840	14310	12390	10860
Monthly mean	5870	5950	6040	5870	5220	5240	6720	7800	8180	11240	14070	11400

DAILY DISCHARGE—RAINY RIVER AT INTERNATIONAL FALLS AND FORT FRANCES—Concluded  
RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD  
(Cubic feet per second)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1	12725	10600	11570	10855	28515	36115	35085	22700	10465	8905	9595	7690
2	12125	10675	12555	10745	29650	37655	34830	20465	10860	3885	10340	7600
3	12250	10550	12670	7170	28870	37650	35355	15960	12840	9100	10320	6625
4	11820	10550	12540	10145	28105	37780	34195	15905	15090	9205	10175	4715
5	11010	10705	12590	9940	30505	36505	33655	14280	15000	9345	10125	7270
6	10920	5850	9245	10275	31625	37565	33765	14930	9125	9580	4950	7590
7	10915	10775	13245	10270	31750	37175	34110	15430	9210	9875	9855	8320
8	10610	10725	13875	10745	30815	37555	34255	18140	9790	9225	10600	9045
9	9405	10225	13715	11795	33675	37800	33765	16060	9605	5530	10350	9070
10	9950	10285	13810	10350	33685	37415	31280	15965	9075	9830	10470	9830
Average	11170	10090	12580	10230	30720	37320	34030	16980	11110	8450	9980	7830
11	9510	9845	13790	12560	33575	37670	34100	18200	7225	10030	9210	5000
12	10730	9905	13910	11175	33815	36080	34405	18250	9865	9550	10355	10550
13	10860	8965	12715	11780	34095	37650	34930	18155	9795	9350	5620	10130
14	10805	9665	13715	13650	34715	37740	34970	18175	9435	9795	10305	10105
15	10850	10350	13680	14375	34040	37145	36110	18155	9185	9730	7420	10005
16	9695	10660	13100	16080	36515	37080	36315	15465	9985	6480	8020	9785
17	10320	10610	12390	14535	36580	36815	35635	15840	8320	9655	9680	10090
18	10700	10565	12480	16300	36655	34415	34855	15935	4455	9395	10210	5540
19	10915	10605	12130	17450	37010	36490	34955	15300	8780	9850	10190	9970
20	10810	7615	10400	18215	37480	36325	34810	14445	9165	10060	5655	9985
Average	10520	9880	12840	14610	35450	36740	35110	16790	8620	9390	8670	9120
21	10870	9855	10915	18835	37750	36355	34810	10195	9340	9810	10145	9910
22	10365	9855	10790	19065	35215	36980	34675	10325	9320	9815	9965	10035
23	8700	10760	10905	19585	37275	36880	34115	10490	8890	5365	10390	10045
24	10780	10740	10905	18570	37160	36685	34160	10485	8895	9860	10385	4755
25	10740	10735	10880	21640	37645	35955	33895	9710	5665	10065	10305	1010
26	10675	1055	10635	23780	36910	35815	30885	8860	9120	10075	9355	4715
27	10400	9020	7155	24110	37655	35225	28000	8540	9105	10000	9795	9610
28	9845	10615	10080	24970	37475	34870	24610	11985	8100	9910	4520	9990
29	10665	.....	10615	26185	37350	35030	23970	9220	9160	8740	9805	9920
30	7335	.....	10685	26685	37420	34115	22285	10015	9040	4100	9545	10330
31	9095	.....	10300	.....	36145	.....	20450	10265	.....	9970	.....	9575
Average	9850	10270	10340	22340	37090	35790	29330	10010	8660	8880	9490	8170
Monthly mean	10530	10070	11870	15730	34510	36620	32710	14450	9460	8910	9280	8370

TABLE OF EQUIVALENT LAKE LEVELS—FOR STORAGE ON RAINY LAKE, IN BILLIONS OF CUBIC FEET

[Elevations refer to P. W. D. (Canada) Datum]

[Area Rainy Lake=345 square miles 1.0 ft. storage=9.6 B.C.F.]

Lake level	Storage B.C.F.	Lake level	Storage B.C.F.	Lake level	Storage B.C.F.	Lake level	Storage B.C.F.
490.00	0.00	492.00	19.24	494.00	38.47	496.00	57.71
490.05	0.48	492.05	19.72	494.05	38.95	496.05	58.19
490.10	0.96	492.10	20.20	494.10	39.43	496.10	58.67
490.15	1.44	492.15	20.68	494.15	39.91	496.15	59.15
490.20	1.92	492.20	21.16	494.20	40.40	496.20	59.63
490.25	2.40	492.25	21.64	494.25	40.88	496.25	60.11
490.30	2.89	492.30	22.12	494.30	41.36	496.30	60.59
490.35	3.37	492.35	22.60	494.35	41.84	496.35	61.07
490.40	3.85	492.40	23.08	494.40	42.32	496.40	61.56
490.45	4.33	492.45	23.56	494.45	42.80	496.45	62.04
490.50	4.81	492.50	24.04	494.50	43.28	496.50	62.52
490.55	5.29	492.55	24.52	494.55	43.76	496.55	63.00
490.60	5.77	492.60	25.01	494.60	44.24	496.60	63.48
490.65	6.25	492.65	25.49	494.65	44.72	496.65	63.96
490.70	6.73	492.70	25.97	494.70	45.21	496.70	64.44
490.75	7.21	492.75	26.45	494.75	45.69	496.75	64.92
490.80	7.69	492.80	26.93	494.80	46.17	496.80	65.40
490.85	8.17	492.85	27.41	494.85	46.65	496.85	65.88
490.90	8.66	492.90	27.89	494.90	47.13	496.90	66.36
490.95	9.14	492.95	28.37	494.95	47.61	496.95	66.84
491.00	9.62	493.00	28.85	495.00	48.09	497.00	67.32
491.05	10.10	493.05	29.33	495.05	48.57	497.05	67.80
491.10	10.58	493.10	29.82	495.10	49.05	497.10	68.29
491.15	11.06	493.15	30.29	495.15	49.53	497.15	68.77
491.20	11.54	493.20	30.78	495.20	50.01	497.20	69.25
491.25	12.02	493.25	31.26	495.25	50.49	497.25	69.73
491.30	12.50	493.30	31.74	495.30	50.98	497.30	70.21
491.35	12.98	493.35	32.22	495.35	51.46	497.35	70.69
491.40	13.46	493.40	32.70	495.40	51.94	497.40	71.17
491.45	13.94	493.45	33.20	495.45	52.42	497.45	71.66
491.50	14.42	493.50	33.66	495.50	52.90	497.50	72.14
491.55	14.90	493.55	34.14	495.55	53.38	497.55	72.62
491.60	15.39	493.60	34.63	495.60	53.86	497.60	73.10
491.65	15.87	493.65	35.11	495.65	54.34	497.65	73.58
491.70	16.35	493.70	35.59	495.70	54.82	497.70	74.06
491.75	16.83	493.75	36.07	495.75	55.30	497.75	74.54
491.80	17.31	493.80	36.55	495.80	55.78	497.80	75.02
491.85	17.79	493.85	37.03	495.85	56.26	497.85	75.50
491.90	18.27	493.90	37.51	495.90	56.75	497.90	75.98
491.95	18.75	493.95	37.99	495.95	57.23	497.95	76.46

RAINY LAKE—RATES OF DISCHARGE FOR 8, 9, 10, 11, 28, 29, 30, AND 31-DAY PERIODS EQUIVALENT TO VOLUME REPRESENTED BY GIVEN DEPTH ON RAINY LAKE

RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD

[Area, 345 square miles]

Feet depth on lake	Rate of discharge in cubic feet per second							
	8 days	9 days	10 days	11 days	28 days	29 days	30 days	31 days
0-01.....	139	124	111	101	40	38	37	36
0-02.....	278	248	222	202	80	76	74	72
0-03.....	417	371	333	304	120	114	111	108
0-04.....	556	495	445	405	160	153	148	144
0-05.....	695	619	556	506	200	191	186	180
0-06.....	834	743	667	607	239	229	223	216
0-07.....	973	866	779	708	279	268	260	251
0-08.....	1112	990	890	810	319	306	297	287
0-09.....	1251	1114	1001	911	359	345	334	323
0-10.....	1390	1237	1113	1012	398	384	371	359
0-11.....	1529	1361	1224	1113	438	422	408	395
0-12.....	1668	1485	1335	1214	478	460	445	431
0-13.....	1807	1609	1447	1316	517	498	482	467
0-14.....	1946	1732	1558	1417	557	537	519	503
0-15.....	2086	1856	1669	1518	596	576	557	538
0-16.....	2225	1980	1780	1619	636	614	594	574
0-17.....	2364	2103	1892	1720	676	652	631	610
0-18.....	2503	2227	2003	1822	715	690	668	646
0-19.....	2643	2351	2114	1923	755	729	705	682
0-20.....	2783	2474	2226	2024	794	768	742	718
0-21.....	2922	2598	2337	2125	834	806	779	754
0-22.....	3061	2722	2448	2226	874	844	816	790
0-23.....	3200	2846	2560	2328	914	882	853	826
0-24.....	3339	2970	2671	2429	954	921	890	862
0-25.....	3479	3093	2782	2530	994	959	928	897
0-26.....	3618	3217	2893	2631	1034	998	965	933
0-27.....	3757	3341	3005	2732	1074	1036	1002	969
0-28.....	3896	3464	3116	2834	1114	1075	1039	1005
0-29.....	4036	3588	3227	2935	1154	1113	1076	1041
0-30.....	4175	3711	3339	3036	1194	1152	1113	1077
0-31.....	4314	3835	3450	3137	1234	1190	1150	1113
0-32.....	4453	3959	3561	3238	1274	1228	1187	1149
0-33.....	4592	4083	3673	3340	1314	1267	1224	1185
0-34.....	4731	4207	3784	3441	1354	1305	1261	1221
0-35.....	4870	4331	3895	3542	1393	1343	1299	1256
0-36.....	5010	4454	4007	3643	1433	1382	1336	1292
0-37.....	5149	4578	4118	3744	1473	1420	1373	1328
0-38.....	5288	4701	4229	3846	1513	1458	1410	1364
0-39.....	5427	4825	4341	3947	1553	1497	1447	1400
0-40.....	5566	4948	4453	4048	1592	1536	1484	1436
0-41.....	5705	5072	4564	4149	1632	1574	1521	1472
0-42.....	5844	5196	4675	4250	1672	1612	1558	1508
0-43.....	5983	5320	4787	4352	1712	1650	1595	1544
0-44.....	6122	5444	4898	4453	1751	1689	1632	1580
0-45.....	6261	5567	5009	4554	1791	1728	1670	1616
0-46.....	6401	5691	5121	4655	1831	1766	1707	1651
0-47.....	6540	5815	5232	4756	1871	1805	1744	1687
0-48.....	6679	5938	5343	4858	1910	1843	1781	1723
0-49.....	6818	6062	5455	4969	1950	1882	1818	1759
0-50.....	6958	6185	5566	5060	1990	1920	1855	1795
0-51.....	7097	6309	5677	5161	2030	1958	1892	1831
0-52.....	7236	6432	5788	5262	2070	1996	1929	1867
0-53.....	7375	6556	5900	5364	2110	2035	1966	1903
0-54.....	7515	6679	6011	5465	2149	2073	2003	1938
0-55.....	7654	6803	6122	5566	2189	2112	2041	1974

RAINY LAKE—RATES OF DISCHARGE FOR 8, 9, 10, 11, 28, 29, 30 AND 31-DAY PERIODS EQUIVALENT TO VOLUME REPRESENTED BY GIVEN DEPTH ON RAINY LAKE.

RECORDS OF CANADIAN LAKE OF THE WOODS CONTROL BOARD

[Area, 345 square miles]

Feet depth on lake	Rates of discharge in cubic feet per second							
	8 days	9 days	10 days	11 days	28 days	29 days	30 days	31 days
0-56.....	7793	6926	6233	5667	2228	2150	2078	2010
0-57.....	7932	7050	6346	5768	2268	2189	2115	2046
0-58.....	8071	7174	6457	5870	2308	2226	2152	2082
0-59.....	8210	7298	6568	5971	2348	2265	2189	2118
0-60.....	8349	7421	6679	6072	2388	2304	2226	2154
0-61.....	8488	7545	6790	6173	2428	2342	2263	2190
0-62.....	8627	7668	6901	6274	2468	2381	2300	2226
0-63.....	8766	7792	7013	6376	2507	2419	2337	2262
0-64.....	8905	7915	7124	6477	2547	2458	2374	2298
0-65.....	9045	8039	7235	6578	2587	2496	2412	2334
0-66.....	9184	8162	7347	6679	2626	2535	2449	2370
0-67.....	9323	8286	7458	6780	2666	2573	2486	2406
0-68.....	9462	8410	7569	6882	2706	2612	2523	2442
0-69.....	9601	8534	7680	6983	2746	2650	2560	2478
0-70.....	9741	8658	7792	7084	2786	2688	2598	2514
0-71.....	9880	8782	7903	7185	2826	2726	2635	2550
0-72.....	10019	8906	8014	7286	2866	2764	2672	2586
0-73.....	10158	9030	8126	7388	2905	2803	2709	2622
0-74.....	10297	9153	8237	7489	2945	2841	2746	2658
0-75.....	10437	9277	8348	7590	2985	2880	2784	2693
0-76.....	10576	9400	8460	7691	3024	2918	2821	2729
0-77.....	10715	9523	8571	7792	3064	2957	2858	2765
0-78.....	10854	9647	8682	7894	3104	2995	2895	2801
0-79.....	10993	9771	8793	7995	3144	3034	2932	2837
0-80.....	11132	9895	8905	8096	3184	3072	2969	2873
0-81.....	11271	10019	9016	8197	3224	3110	3006	2909
0-82.....	11410	10142	9128	8298	3263	3149	3043	2945
0-83.....	11549	10266	9240	8400	3303	3187	3080	2981
0-84.....	11689	10390	9351	8501	3343	3226	3117	3017
0-85.....	11828	10513	9462	8602	3382	3264	3154	3053
0-86.....	11967	10637	9573	8703	3422	3302	3191	3088
0-87.....	12106	10760	9685	8804	3462	3341	3229	3124
0-88.....	12245	10884	9796	8906	3502	3379	3266	3160
0-89.....	12384	11008	9908	9007	3542	3417	3303	3196
0-90.....	12524	11132	10019	9108	3582	3456	3340	3232
0-91.....	12663	11256	10130	9209	3622	3494	3377	3268
0-92.....	12802	11379	10241	9310	3661	3533	3414	3304
0-93.....	12941	11503	10353	9412	3701	3571	3451	3340
0-94.....	13081	11626	10464	9513	3741	3610	3488	3376
0-95.....	13220	11750	10575	9614	3781	3648	3526	3411
0-96.....	13359	11873	10687	9715	3820	3687	3563	3447
0-97.....	13498	11997	10798	9816	3860	3725	3600	3483
0-98.....	13637	12121	10909	9918	3900	3764	3637	3519
0-99.....	13776	12245	11021	10019	3940	3802	3674	3555
1-00.....	13915	12369	11132	10120	3980	3840	3711	3591

STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE

Date	1909					1910				
	Lake level	Change in storage		Out-flow Rate c.f.s.	Inflow Rate c.f.s.	Lake level	Change in storage		Out-flow Rate c.f.s.	Inflow Rate c.f.s.
		Feet depth	Rate c.f.s.				Feet depth	Rate c.f.s.		
Jan. 1-10	488-80	-0-15	- 1669	5190	3521	496-50	-0-04	- 445	11076	10631
11-20	488-60	-0-20	- 2226	4868	2642	496-36	-0-14	- 1558	11000	9442
21-31	488-35	-0-25	- 2530	4680	2150	496-04	-0-32	- 3238	10891	7653
Feb. 1-10	488-10	-0-25	- 2782	4369	1587	495-68	-0-36	- 4007	10700	6693
11-20	488-00	-0-10	- 1113	4021	2308	495-26	-0-42	- 4675	10490	5815
21-28	487-85	-0-15	- 2086	3878	1792	494-82	-0-44	- 6123	10310	4187
Mar. 1-10	487-70	-0-15	- 1669	3503	2136	494-37	-0-45	- 5009	10130	5121
11-20	487-50	-0-20	- 2226	4035	1809	494-05	-0-32	- 3561	9930	6369
21-31	487-30	-0-20	- 2024	4806	2782	494-32	0-27	2732	10265	12097
Apr. 1-10	487-25	-0-05	- 556	4020	3464	494-84	0-52	5788	11158	16946
11-20	487-30	0-05	556	2096	2652	495-28	0-44	4898	11345	16243
21-30	487-61	0-31	3450	1274	4724	495-48	0-20	2226	12201	14427
May 1-10	488-34	0-73	8126	829	8955	495-43	-0-05	- 556	12700	12144
11-20	490-14	1-80	20037	300	20337	495-40	-0-03	- 333	11293	10960
21-31	491-81	1-67	16900	553	17453	495-27	-0-13	- 1316	10384	9068
June 1-10	492-80	0-99	11021	3830	14851	494-91	-0-36	- 4007	10216	6209
11-20	493-75	0-95	10575	6857	17432	494-56	-0-35	- 3895	11294	7399
21-30	494-60	0-85	9462	9756	19229	494-10	-0-46	- 5121	9896	4775
July 1-10	494-75	0-15	1669	11777	13446	493-74	-0-36	- 4007	8496	4489
11-20	494-76	0-01	111	11171	11282	493-51	-0-23	- 2560	5980	3420
21-31	494-70	-0-06	- 607	10740	10133	493-33	-0-18	- 1822	5240	3418
Aug. 1-10	494-96	0-26	2893	10442	13335	493-21	-0-12	- 1335	5588	4253
11-20	495-05	0-09	1001	12864	13865	492-90	-0-31	- 3450	4904	1454
21-31	495-18	0-13	1316	9878	11194	492-72	-0-18	- 1822	5138	3316
Sept. 1-10	495-23	0-05	556	9129	9685	492-53	-0-19	- 2114	5078	2964
11-20	495-06	-0-17	- 1892	10426	8534	492-17	-0-36	- 4007	5011	1004
21-30	494-95	-0-11	- 1224	9004	7780	491-89	-0-28	- 3116	5038	1922
Oct. 1-10	494-76	-0-19	- 2114	9519	7405	491-59	-0-30	- 3339	4864	1525
11-20	494-77	0-01	111	9088	9199	491-40	-0-19	- 2114	5533	3419
21-31	494-93	0-16	1619	7180	8799	491-00	-0-40	- 4048	5972	1924
Nov. 1-10	495-17	0-24	2671	6850	9521	490-58	-0-42	- 4675	5864	1189
11-20	495-66	0-49	5455	4242	9797	490-28	-0-30	- 3339	6502	3163
21-30	496-22	0-56	6233	4940	11173	489-93	-0-35	- 3895	4850	955
Dec. 1-10	496-60	0-38	4229	9182	13411	489-60	-0-33	- 3673	4461	788
11-20	496-65	0-05	556	11080	11636	489-30	-0-30	- 3339	3944	605
21-31	496-54	-0-11	- 1113	11080	9967	489-06	-0-24	- 2429	3914	1485
Date	1911					1912				
Jan. 1-10	488-98	-0-08	- 890	2967	2077	491-92	-0-20	- 2226	5289	3063
11-20	488-88	-0-10	- 1113	3080	1967	491-63	-0-29	- 3227	5613	2386
21-31	488-78	-0-10	- 1012	2393	1381	491-36	-0-27	- 2732	5122	2390
Feb. 1-10	488-70	-0-08	- 890	2567	1677	491-18	-0-18	- 2003	5009	3006
11-20	488-62	-0-08	- 890	2512	1622	491-02	-0-16	- 1780	4632	2852
21-28	488-57	-0-05	- 695	2417	1792	490-74	-0-28	- 3462	4846	1384
Mar. 1-10	488-50	-0-07	- 779	2582	1803	490-50	-0-24	- 2671	4764	2093
11-20	488-37	-0-13	- 1447	2600	1153	490-20	-0-30	- 3339	4688	1349
21-31	488-30	-0-07	- 708	2600	1892	489-91	-0-29	- 2935	4759	1824
Apr. 1-10	488-50	0-20	2226	2600	4826	489-75	-0-16	- 1780	4644	2864
11-20	489-05	0-55	6122	2600	8722	489-93	0-18	2003	4902	6905
21-30	489-68	0-63	7013	2600	9613	490-42	0-49	5455	5008	10483
May 1-10	490-05	0-37	4118	3810	7828	491-16	0-74	8237	5997	14234
11-20	490-40	0-35	3895	5078	8973	491-96	0-80	8905	5980	14885
21-31	490-89	0-49	4969	5476	10445	492-92	0-96	9715	6267	15982
June 1-10	491-50	0-61	6790	6385	13175	493-92	1-00	11132	6063	17185
11-20	492-05	0-55	6122	6340	12462	494-72	0-80	8905	6097	15092
21-30	492-44	0-39	4341	5324	9665	495-46	0-74	8237	5886	14123
July 1-10	492-80	0-36	4007	3687	7694	495-91	0-45	5009	5900	10959
11-20	493-10	0-30	3339	4052	7391	496-19	0-28	3116	7983	11099
21-31	493-43	0-33	3340	4832	8172	496-38	0-19	1923	9024	10947
Aug. 1-10	493-63	0-20	2226	6312	8538	496-24	-0-14	- 1558	9669	8111
11-20	493-60	-0-03	- 333	6102	5769	496-19	-0-05	- 556	7940	7384
21-31	493-56	-0-04	- 405	6155	5750	496-34	0-15	1518	6873	8291
Sept. 1-10	493-40	-0-16	- 1780	6220	4440	496-36	0-02	222	7465	7687
11-20	493-29	-0-11	- 1224	5682	4458	496-20	-0-16	- 1780	7528	5748
21-30	493-20	-0-09	- 1001	5276	4275	496-28	0-08	890	7110	8000
Oct. 1-10	493-20	0	0	4964	4964	496-26	-0-02	- 222	6958	6736
11-20	493-12	-0-08	- 890	5071	4181	496-17	-0-09	- 1001	6929	5928
21-31	492-90	-0-22	- 2226	4882	2656	496-04	-0-13	- 1316	6767	5451
Nov. 1-10	492-80	-0-10	- 1113	4714	3601	495-90	-0-14	- 1558	6797	5239
11-20	492-74	-0-06	- 667	4712	4045	495-65	-0-25	- 2782	6629	3847
21-30	492-58	-0-16	- 1780	5505	3725	495-45	-0-20	- 2225	6754	4528
Dec. 1-10	492-46	-0-12	- 1335	5429	4094	495-22	-0-23	- 2560	6433	3873
11-20	492-29	-0-17	- 1892	5365	3473	495-00	-0-22	- 2448	6662	4214
21-31	492-12	-0-17	- 1720	4787	3067	494-81	-0-19	- 1923	5790	3867

Lake levels refer to elevations on the 1st, 11th, and 21st of each month.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

RAINY LAKE INVESTIGATION

STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE—Continued

Date	1913					1914				
	Lake level	Change in storage		Out-flow rate c.f.s.	Inflow rate c.f.s.	Lake level	Change in storage		Out-flow rate c.f.s.	Inflow rate c.f.s.
		Feet depth	Rate c.f.s.				Feet depth	Rate c.f.s.		
Jan. 1-10.....	494.59	-0.22	-2448	6607	4159	*495.75	-0.20	-2226	6517	4291
11-20.....	494.31	-0.28	-3116	6455	3339	495.48	-0.27	-3005	6725	3720
21-31.....	493.98	-0.33	-3340	6783	3443	†495.20	-0.28	-2834	6897	4063
Feb. 1-10.....	493.62	-0.36	-4007	6486	2479	494.92	-0.28	-3116	6783	3667
11-20.....	493.23	-0.39	-4341	6606	2265	*490.60	-0.32	-3561	6884	3323
21-28.....	493.00	-0.23	-3200	6599	3399	494.38	-0.22	-3060	6925	3865
Mar. 1-10.....	492.63	-0.37	-4118	6392	2274	493.97	-0.41	-4564	6651	2087
11-20.....	492.30	-0.33	-3673	6506	2833	493.56	-0.41	-4564	6799	2235
21-31.....	491.95	-0.35	-3542	6360	2818	493.17	-0.39	-3947	6673	2726
April 1-10.....	491.65	-0.30	-3339	6191	2852	492.75	-0.42	-4675	6777	2102
11-20.....	491.84	0.19	2114	6402	8516	492.75	0	0	6586	6586
21-30.....	492.15	0.31	3450	6522	9972	492.90	0.15	1609	6717	8386
May 1-10.....	492.56	0.41	4564	6695	11259	493.38	0.48	5343	6581	11924
11-20.....	493.20	0.64	7124	6480	13614	493.95	0.57	6346	6650	12996
21-31.....	494.45	1.25	12650	6669	19319	494.70	0.75	7590	7326	14916
June 1-10.....	495.76	1.31	14583	6557	21140	495.40	0.70	7792	8514	16306
11-20.....	496.63	0.87	9685	7057	16742	496.10	0.70	7792	8494	16286
21-30.....	497.12	0.49	5455	8216	13671	496.85	0.75	8348	8382	16730
July 1-10.....	*497.40	0.28	3116	10853	13969	497.40	0.55	6122	8778	14900
11-20.....	497.37	-0.03	-333	14011	13678	497.60	0.20	2226	10539	12765
21-31.....	497.35	-0.02	-202	12904	12702	497.40	-0.20	-2024	11930	9906
Aug. 1-10.....	497.37	0.02	222	9398	9620	497.30	-0.10	-1113	10039	8926
11-20.....	*497.30	-0.07	-779	8973	8194	497.05	-0.25	-2782	10284	7502
21-31.....	497.34	0.04	405	7353	7758	496.80	-0.25	-2530	9831	7301
Sept. 1-10.....	497.32	-0.02	-222	6622	6400	496.70	-0.10	-1113	9490	8377
11-20.....	497.12	-0.20	-2226	6869	4643	496.70	0	0	9846	9846
21-30.....	496.95	-0.17	-1892	6820	4928	496.80	0.10	1113	9910	11023
Oct. 1-10.....	496.99	0.04	445	6602	7047	496.80	0	0	9910	9910
11-20.....	496.95	-0.04	-445	6500	6055	496.70	-0.10	-1113	9195	8082
21-31.....	496.76	-0.19	-1923	5986	4063	*496.60	-0.10	-1012	10213	9201
Nov. 1-10.....	496.76	0	0	5838	5838	496.30	-0.30	-3339	9877	6538
11-20.....	*496.65	-0.11	-1224	5956	4732	495.95	-0.35	-3895	10173	6278
21-30.....	496.59	-0.06	-667	6493	5826	495.65	-0.30	-3339	9729	6390
Dec. 1-10.....	*496.37	-0.22	-2448	6409	3961	495.40	-0.25	-2782	10256	7474
11-20.....	*496.20	-0.17	-1892	6808	4916	495.05	-0.35	-3895	9323	5428
21-31.....	*495.95	-0.25	-2530	5747	3217	494.80	-0.25	-2530	7547	5017

\*Estimated.

†Lake levels refer to elevations on the 1st, 11th and 21st of each month.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.



## STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE—Continued

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Lake level		Change in storage				Rainy Lake		Combined in-flow
	Rainy	Namakan	Rainy		Namakan		Out-flow	In-flow	
			Foot depth	Equivalent c.f.s.	Foot depth	Equivalent c.f.s.			
1915									
Jan. 1-10	494.35	501.75	-0.45	-5010	-0.25	- 810	9420	4410	3600
11-20	493.95	501.50	-0.40	-4450	-0.25	- 810	9510	5060	4250
21-31	493.45	501.25	-0.50	-5060	-0.25	- 740	8830	3770	3030
Feb. 1-10	493.05	501.00	-0.40	-4450	-0.25	- 810	7880	3430	2620
11-20	492.70	500.85	-0.35	-3900	-0.15	- 490	7870	3970	3480
21-28	492.40	500.70	-0.30	-4180	-0.15	- 610	7740	3560	2950
Mar. 1-10	492.00	500.55	-0.40	-4450	-0.15	- 430	7560	3110	2620
11-20	491.60	500.40	-0.40	-4450	-0.15	- 430	7140	2690	2200
21-31	491.10	500.30	-0.50	-5060	-0.10	- 290	7370	2310	2020
April 1-10	490.85	500.40	-0.25	-2780	0.10	320	7580	4800	5120
11-20	490.95	500.00	0.10	1110	-0.40	-1290	7210	8320	7030
21-30	491.20	498.90	0.25	2780	-1.10	-3550	7730	10510	6960
May 1-10	491.40	498.45	0.20	2230	-0.45	-1450	7590	9820	8370
11-20	491.60	498.30	0.20	2230	-0.15	- 490	8710	10940	10450
21-31	491.75	498.30	0.15	1520	0	0	7170	8690	8690
June 1-10	492.20	498.45	0.45	5010	0.15	490	7390	12400	12890
11-20	493.30	500.40	1.10	12250	1.95	6300	7300	19550	25850
21-30	494.30	502.40	1.00	11130	2.00	6460	7320	18450	24910
July 1-10	494.95	504.65	0.65	7240	2.25	7270	7430	14670	21940
11-20	495.45	505.90	0.50	5570	1.25	4040	8490	14060	18100
21-31	495.85	506.65	0.40	4050	0.75	2210	8990	13040	15250
Aug. 1-10	495.95	506.55	0.10	1110	-0.10	- 320	9430	10540	10220
11-20	496.00	506.00	0.05	560	-0.05	-1780	8960	9520	7740
21-31	496.05	505.05	0.05	510	-0.95	-2790	7940	8450	5660
Sept. 1-10	496.05	504.15	0	0	-0.90	-2910	7110	7110	4200
11-20	496.05	503.30	0	0	-0.85	-2750	7420	7420	4670
21-30	496.05	502.55	0	0	-0.75	-2420	8000	8000	5580
Oct. 1-10	496.05	502.10	0	0	-0.45	-1450	7560	7560	6110
11-20	496.10	501.95	0.05	560	-0.15	- 490	6710	7270	6780
21-31	496.30	500.90	0.20	2020	-1.05	-3090	6710	8730	5640
Nov. 1-10	496.65	500.45	0.35	3900	-0.45	-1450	7020	10920	9470
11-20	496.95	500.25	0.30	3340	-0.20	- 650	6780	10120	9470
21-30	497.10	500.10	0.15	1670	-0.15	- 490	6950	8620	8130
Dec. 1-10	497.15	500.00	0.05	560	-0.10	- 320	8590	9150	8830
11-20	497.15	499.80	0	0	-0.20	- 650	9020	9020	8370
21-31	497.15	499.55	0	0	-0.25	- 740	8750	8750	8010
1916									
Jan. 1-10	497.10	499.30	-0.05	- 560	-0.25	- 810	8690	8130	7320
11-20	497.00	499.10	-0.10	-1110	-0.20	- 650	9290	8180	7530
21-31	496.90	498.90	-0.10	-1010	-0.20	- 590	8530	7520	6930
Feb. 1-10	496.75	498.70	-0.15	-1670	-0.20	- 650	8840	7170	6522
11-20	496.50	498.50	-0.25	-2780	-0.20	- 650	9310	6530	5880
21-29	496.25	498.30	-0.25	-3090	-0.20	- 720	9480	6390	5670
Mar. 1-10	495.85	498.10	-0.40	-4450	-0.20	- 650	9710	5260	4610
11-20	495.60	497.85	-0.25	-2780	-0.25	- 810	9360	6580	5770
21-31	495.25	497.70	-0.35	-3540	-0.15	- 440	9800	6260	5820
April 1-10	494.85	497.60	-0.40	-4450	-0.10	- 320	9670	5220	4900
11-20	496.00	500.45	1.15	12800	2.85	9210	8590	21390	30600
21-30	497.40	506.40	1.40	15590	5.95	19220	9950	25540	44760
May 1-10	498.00	510.50	0.60	6680	4.10	13240	18640	25320	38560
11-20	499.45	511.20	1.45	16140	0.70	2260	23020	39160	41420
21-31	500.65	510.95	1.20	12140	-0.25	- 740	29100	41240	40500
June 1-10	500.85	510.45	0.20	2230	-0.50	-1620	36170	38400	36780
11-20	500.45	509.60	-0.40	-4450	-0.85	-2750	36640	32190	29440
21-30	499.85	509.00	-0.60	-6680	-0.60	-1940	35340	28660	26720
July 1-10	499.05	508.80	-0.80	-8910	-0.20	- 650	31640	22930	22280
11-20	498.35	508.60	-0.70	-7790	-0.20	- 650	24700	16910	16260
21-31	498.00	508.45	-0.35	-3540	-0.15	- 440	16580	13040	12600
Aug. 1-10	497.90	508.20	-0.10	-1110	-0.25	- 810	12157	11040	10230
11-20	497.65	507.70	-0.25	-2780	-0.50	-1620	13470	10690	9070
21-31	497.45	507.20	-0.20	-2020	-0.50	-1470	12050	10030	8560
Sept. 1-10	497.45	507.40	0	0	0.20	650	10770	10770	11420
11-20	497.45	507.60	0	0	0.20	650	10200	10200	10850
21-30	497.55	507.40	0.10	1110	-0.20	- 650	11020	12130	11480
Oct. 1-10	497.25	507.85	-0.30	-3340	0.45	1450	11030	7890	9140
11-20	497.25	508.10	0	0	0.25	810	11010	11010	11820
21-31	497.15	508.35	-0.10	-1010	0.25	740	10760	9750	10490
Nov. 1-10	497.15	508.40	0	0	0.05	160	10810	10810	10970
11-20	497.10	508.15	-0.05	- 560	-0.25	- 810	10150	9590	8780
21-30	497.10	507.85	0	0	-0.30	- 970	9390	9390	8420
Dec. 1-10	497.05	507.25	-0.05	- 560	-0.60	-1940	9960	9400	7460
11-20	497.05	506.50	0	0	-0.75	-2420	9730	9730	7310
21-31	497.05	505.55	0	0	-0.95	-2790	8960	8960	6170

Lake levels refer to elevations on 1st, 11th and 21st of each month.

RAINY LAKE INVESTIGATION

STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE—Continued  
 COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Lake level		Change in storage				Rainy Lake		Com- bined in- flow
	Rainy	Namakan	Rainy		Namakan		Out- flow	In- flow	
			Foot depth	Equiv- alent c.f.s.	Foot depth	Equiv- alent c.f.s.			
1917									
Jan. 1-10	496-95	504-50	-0-10	-1110	-1-05	-3390	10370	9260	5870
11-20	496-85	502-95	-0-10	-1110	-1-55	-5010	10420	9310	4300
21-31	496-70	501-30	-0-15	-1520	-1-65	-4850	10230	8710	3860
Feb. 1-10	496-50	500-10	-0-20	-2230	-1-20	-3880	10380	8150	4270
11-20	496-25	499-35	-0-25	-2780	-0-75	-2420	9860	7080	4660
21-28	495-95	498-85	-0-30	-4170	-0-50	-2020	10240	6070	4050
Mar. 1-10	495-55	498-35	-0-40	-4450	-0-50	-1610	10290	5840	4230
11-20	495-10	498-00	-0-45	-5010	-0-35	-1130	9910	4900	3770
21-31	494-55	497-60	-0-55	-5570	-0-40	-1180	10110	4540	3360
April 1-10	493-95	497-35	-0-60	-6680	-0-25	-810	9900	3220	2410
11-20	493-71	497-55	-0-24	-2670	0-20	640	10760	8090	8730
21-30	493-70	498-37	-0-01	110	0-82	2650	10090	9980	12630
May 1-10	493-72	498-95	0-02	220	0-58	1870	10230	10450	12320
11-20	493-68	499-10	-0-05	-440	0-15	490	10170	9730	10220
21-31	493-50	498-93	-0-18	-1820	-0-17	-500	10090	8270	7770
June 1-10	493-34	498-67	-0-16	-1780	-0-26	-840	9880	8100	7260
11-20	493-30	498-46	-0-04	-440	-0-21	-680	8050	7610	6930
21-30	493-16	498-49	-0-14	-1560	0-03	100	10270	8710	8810
July 1-10	492-97	498-79	-0-19	-2110	0-30	970	8960	6850	7820
11-20	492-75	499-18	-0-22	-2450	0-39	1260	9900	7450	8710
21-31	492-40	499-30	-0-35	-3540	0-12	-320	9600	6080	6380
Aug. 1-10	492-05	499-03	-0-35	-3900	-0-27	-870	9380	5480	4610
11-20	491-75	498-68	-0-30	-3340	-0-35	-1130	8930	5590	4460
21-31	491-45	498-38	-0-30	-3040	-0-30	-880	8860	5820	4940
Sept. 1-10	491-23	498-05	-0-22	-2450	-0-33	-1070	7570	5120	4050
11-20	491-06	497-88	-0-17	-1890	-0-17	-550	7310	5420	4870
21-30	490-92	497-70	-0-14	-1560	-0-18	-580	6050	4490	3910
Oct. 1-10	490-75	497-41	-0-17	-1890	-0-29	-940	6070	4180	3240
11-20	490-84	497-31	0-09	1000	-0-10	-320	5200	6200	5880
21-31	490-84	497-40	0	0	0-09	280	5860	5860	6140
Nov. 1-10	490-89	497-40	0-05	560	0	0	5290	5850	5850
11-20	490-90	497-35	0-01	110	-0-05	-160	4890	5000	4840
21-30	490-80	497-25	-0-10	-1110	-0-10	-320	6600	5490	5170
Dec. 1-10	490-70	497-16	-0-10	-1110	-0-09	-290	5800	4690	4400
11-20	490-66	497-05	-0-04	-450	-0-11	-360	5020	4570	4210
21-31	490-65	496-95	-0-01	-100	-0-10	-290	4710	4610	4320
1918									
Jan. 1-10	490-53	496-75	-0-12	-1340	-0-20	-650	5460	4120	3470
11-20	490-45	496-58	-0-08	-890	-0-17	-550	4370	3480	2930
21-31	490-47	496-43	0-02	-200	-0-15	-440	3550	3750	3310
Feb. 1-10	490-46	496-10	-0-01	-110	-0-33	-1070	3160	3050	1980
11-20	490-45	495-97	-0-01	-110	-0-13	-420	3150	3040	2620
21-28	490-42	495-83	-0-03	-420	-0-14	-560	3500	3080	2520
Mar. 1-10	490-32	495-67	-0-10	-1110	-0-16	-520	3720	2610	2090
11-20	490-13	495-47	-0-19	-2110	-0-20	-650	3570	1460	810
21-31	490-19	495-57	0-06	610	0-10	290	3920	4530	4820
April 1-10	490-30	495-77	0-11	1220	0-20	650	4040	5260	5910
11-20	490-33	495-95	0-03	330	0-18	580	4120	4450	5030
21-30	490-65	496-50	0-32	3560	0-55	1780	3890	7450	9230
May 1-10	491-15	497-40	0-50	5570	0-90	2910	4290	9860	12770
11-20	491-70	498-20	0-55	6120	0-80	2580	4140	10260	12840
21-31	492-40	499-00	0-70	7080	0-80	2350	4500	11580	13930
June 1-10	493-10	500-00	0-70	7790	1-00	3230	4690	12480	15710
11-20	493-66	500-68	0-56	6230	0-68	2200	4800	11030	13230
21-30	494-10	501-62	0-44	4900	0-94	3040	5150	10050	13090
July 1-10	494-45	502-06	0-35	3900	0-44	1420	4610	8510	9930
11-20	494-75	502-03	0-30	3340	-0-03	-100	5590	8930	8830
21-31	495-06	501-75	0-31	3140	-0-28	-820	6890	10030	9210
Aug. 1-10	495-16	501-20	0-10	1110	-0-55	-1780	7320	8430	6650
11-20	495-20	500-61	0-04	450	-0-59	-1910	7910	8360	6450
21-31	495-05	500-05	-0-15	-1520	-0-56	-1649	7100	5580	3930
Sept. 1-10	494-84	499-00	-0-21	-2340	-0-55	-1780	6460	4120	2340
11-20	494-50	499-00	-0-34	-3780	-0-50	-1620	7180	3400	1780
21-30	494-24	498-50	-0-26	-2890	-0-50	-1620	6530	3640	2020
Oct. 1-10	494-05	497-80	-0-19	-2110	-0-70	-2260	6570	4460	2200
11-20	493-85	497-14	-0-20	-2230	-0-66	-2130	7280	5000	2870
21-31	493-65	496-65	-0-20	-2020	-0-49	-1451	6670	4650	3200
Nov. 1-10	493-78	496-50	0-13	1450	-0-15	-485	5210	6660	6180
11-20	493-93	496-63	0-15	1670	0-13	-420	5160	6830	7250
21-30	494-05	496-55	0-12	1340	-0-08	-260	5110	6450	6190
Dec. 1-10	494-13	496-44	0-08	890	-0-11	-360	6170	7060	6700
11-20	494-10	496-34	-0-03	-330	-0-10	-320	6420	6090	5770
21-31	494-08	496-20	-0-02	-200	-0-14	-410	5510	5310	4900

Lake levels refer to elevations on 1st, 11th and 21st of each month.

## STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Lake level		Change in storage				Rainy Lake		Combined in-flow
	Rainy	Namakan	Rainy		Namakan		Out-flow	In-flow	
			Foot depth	Equivalent c.f.s.	Foot depth	Equivalent c.f.s.			
1919									
Jan. 1-10	493.95	496.04	-0.13	-1450	-0.16	-520	6390	4940	4420
11-20	493.75	495.88	-0.20	-2230	-0.16	-520	6870	4640	4120
21-31	493.45	495.71	-0.30	-3040	-0.17	-500	7110	4070	3570
Feb. 1-10	493.13	495.58	-0.32	-3560	-0.19	-610	6640	3080	2470
11-20	492.84	495.45	-0.29	-3230	-0.13	-420	6530	3300	2880
21-28	492.68	495.38	-0.16	-2230	-0.17	-690	6980	4750	4060
Mar. 1-10	492.28	495.28	-0.40	-4450	-0.10	-320	6600	2150	1830
11-20	492.02	495.17	-0.26	-2890	-0.11	-360	5960	3070	2730
21-31	491.93	495.31	-0.09	-910	0.14	410	5320	4410	4820
April 1-10	492.17	495.97	0.24	2670	0.66	2120	4870	7540	9670
11-20	492.60	497.10	0.43	4790	1.13	3650	5070	9860	13510
21-30	493.08	498.35	0.48	5340	1.25	4040	5840	11180	15220
May 1-10	493.68	499.62	0.60	6680	1.27	4100	6660	13340	17440
11-20	494.73	500.75	1.05	11690	1.13	3650	1500	13190	16840
21-31	495.28	501.20	0.55	5570	0.45	1320	6220	11790	13110
June 1-10	495.82	501.42	0.54	6010	0.22	710	7180	13190	13900
11-20	496.13	501.95	0.31	3450	0.53	1710	8540	11990	13700
21-30	496.15	502.42	0.02	220	0.47	1520	8520	8740	10260
July 1-10	497.27	503.03	1.12	12470	0.61	1970	10270	22740	24710
11-20	497.30	503.83	0.03	330	0.80	2580	11860	12190	14770
21-31	497.14	504.38	-0.16	-1620	0.55	1620	9850	8230	9850
Aug. 1-10	496.95	504.70	-0.19	-2110	0.32	1040	9700	7590	8630
11-20	496.90	505.30	-0.05	-560	0.60	1940	10040	9480	11420
21-31	496.50	505.40	-0.40	-4050	0.10	290	9900	5850	6140
Sept. 1-10	496.13	505.39	-0.37	-4120	-0.01	-30	8090	3970	3940
11-20	496.42	503.30	0.29	3230	-2.09	-6750	9130	12360	5610
21-30	496.50	501.50	0.08	890	-1.80	-5810	8920	9810	4000
Oct. 1-10	496.45	500.38	-0.05	-560	-1.12	-3620	9150	8590	4970
11-20	496.30	499.13	-0.15	-1670	-1.25	-4040	8240	6570	2530
21-31	496.28	498.16	-0.02	-200	-0.97	-2850	8060	7860	5010
Nov. 1-10	496.20	497.66	-0.08	-890	-0.50	-1620	7570	6680	5060
11-20	496.16	497.54	-0.04	-450	-0.12	-390	7290	6840	6450
21-30	496.11	497.40	-0.05	-560	-0.14	-450	6930	6370	5920
Dec. 1-10	496.00	497.28	-0.11	-1220	-0.12	-390	6380	5160	4770
11-20	495.90	497.19	-0.10	-1110	-0.09	-290	6350	5240	4950
21-31	495.80	497.11	-0.10	-1010	-0.08	-230	5290	4280	4050
1920									
Jan. 1-10	495.60	497.00	-0.20	-2230	-0.11	-360	6200	3970	3610
11-20	495.44	496.92	-0.16	-1780	-0.08	-260	6270	4490	4230
21-31	495.19	496.79	-0.25	-2530	-0.13	-380	6990	4460	4080
Feb. 1-10	494.90	496.64	-0.29	-3230	-0.15	-490	6570	3340	2850
11-20	494.60	496.45	-0.30	-3340	-0.19	-610	7240	3900	3290
21-29	494.34	496.29	-0.26	-3200	-0.16	-580	6700	3500	2920
Mar. 1-10	493.95	496.07	-0.39	-4340	-0.22	-710	7080	2740	2030
11-20	493.56	495.92	-0.39	-4340	-0.15	-490	7500	3160	2670
21-31	493.56	496.50	0	0	0.58	1700	7030	7030	8730
April 1-10	493.40	496.98	-0.16	-1780	0.48	1550	7890	6110	7660
11-20	493.50	497.70	0.10	1110	0.72	2330	7630	8740	11070
21-30	494.05	499.18	0.55	6120	1.48	4780	8130	14250	19030
May 1-10	494.51	500.05	0.46	5120	0.87	2810	7400	12520	15330
11-20	494.95	500.64	0.44	4900	0.59	1910	7970	12870	14780
21-31	495.93	502.25	0.98	9920	1.61	4730	7670	17590	22320
June 1-10	496.50	505.50	0.57	6350	3.25	10500	8930	15280	25780
11-20	496.90	508.15	0.40	4450	2.65	8560	9000	13450	22010
21-30	497.15	508.67	0.25	2780	0.52	1680	14380	17160	18840
July 1-10	497.30	508.50	0.15	1670	-0.17	-550	17140	18810	18260
11-20	497.33	508.73	0.03	330	0.23	740	13720	14050	14790
21-31	497.35	508.46	0.02	200	-0.27	-790	13820	14020	13230
Aug. 1-10	497.30	508.27	-0.05	-560	-0.19	-610	10660	10100	9490
11-20	497.25	507.75	-0.05	-560	-0.52	-1680	10750	10190	8510
21-31	497.10	507.15	-0.15	-1520	-0.60	-1760	9390	7870	6110
Sept. 1-10	496.92	506.73	-0.18	-2000	-0.42	-1360	8760	6760	5400
11-20	496.83	506.15	-0.09	-1000	-0.58	-1870	7540	6540	1670
21-30	496.76	505.25	-0.07	-780	-0.90	-2910	6890	6110	3200
Oct. 1-10	496.65	504.25	-0.11	-1220	-1.00	-3230	6490	5270	2040
11-20	496.65	503.40	0	0	-0.85	-2750	6490	6490	3740
21-31	496.61	501.72	-0.04	-410	-1.68	-4940	6850	6440	1500
Nov. 1-10	496.54	499.80	-0.07	-780	-1.92	-6200	7390	6610	410
11-20	496.43	498.55	-0.11	-1220	-1.25	-4040	7130	5910	1870
21-30	496.29	497.70	-0.14	-1560	-0.85	-2750	6230	4670	1920
Dec. 1-10	496.12	497.15	-0.17	-1890	-0.55	-1780	5340	3450	1670
11-20	496.00	496.75	-0.12	-1340	-0.40	-1290	4150	2810	1520
21-31	495.97	496.50	-0.03	-300	-0.25	-740	4110	3810	3070

Lake levels refer to elevations on 1st, 11th and 21st of each month.

STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Lake level		Change in storage				Rainy Lake		Combined in-flow
	Rainy	Namakan	Rainy		Namakan		Out-flow	In-flow	
			Foot depth	Equivalent c.f.s.	Foot depth	Equivalent c.s.			
1921									
Jan. 1-10	495-73	496-45	-0-24	-2670	-0-05	-160	5260	2590	2430
11-20	495-40	496-30	-0-33	-3670	-0-15	-490	5930	2260	1770
21-31	495-07	496-15	-0-33	-3340	-0-15	-440	5940	2600	2160
Feb. 1-10	494-89	495-98	-0-18	-2000	-0-17	-550	4640	2640	2090
11-20	494-86	495-84	-0-03	-330	-0-14	-450	3270	2940	2490
21-28	494-75	495-75	-0-11	-1530	-0-09	-360	3690	2160	1800
Mar. 1-10	494-35	495-65	-0-40	-4450	-0-10	-320	6640	2190	1870
11-20	494-10	495-56	-0-25	-2780	-0-09	-290	6090	3310	3020
21-31	493-65	495-55	-0-45	-4550	-0-01	-30	6880	2330	2300
April 1-10	494-00	497-20	0-35	3900	1-65	5330	7140	11040	16370
11-20	494-30	497-95	0-30	3340	0-75	2420	7540	10880	13300
21-30	494-42	498-75	0-12	1340	0-80	2580	8250	9590	12170
May 1-10	494-90	499-76	0-48	5340	1-01	3260	5220	10560	13820
11-20	495-40	500-95	0-50	5570	1-19	3840	6090	11660	15500
21-31	495-98	502-25	0-58	5870	1-30	3820	5800	11670	15490
June 1-10	496-32	504-25	0-34	3780	2-00	6460	6600	10380	16840
11-20	496-56	505-53	0-24	2670	1-28	4130	5320	7990	12120
21-30	496-75	506-36	0-19	2110	0-83	2680	5400	7510	10190
July 1-10	496-86	506-80	0-11	1220	0-44	1420	6350	7570	8990
11-20	496-90	507-10	0-04	450	0-30	970	7830	8280	9250
21-31	496-81	507-25	-0-09	-910	0-15	440	7110	6200	6640
Aug. 1-10	496-75	507-13	-0-06	-670	-0-12	-390	6250	5580	5190
11-20	496-76	506-72	0-01	110	-0-41	-1320	5350	5460	4140
21-31	496-88	506-64	0-12	1210	-0-18	-530	5130	6340	5810
Sept. 1-10	496-99	506-09	0-11	1220	-0-45	-1450	5760	6980	5530
11-20	496-90	506-19	-0-09	-1000	0-10	320	7600	6060	6920
21-30	496-72	506-08	-0-18	-2000	-0-11	-360	6830	4830	4470
Oct. 1-10	496-58	505-70	-0-14	-1560	-0-38	-1230	5740	4180	2950
11-20	496-53	505-70	-0-05	560	0	0	5250	4690	4690
21-31	496-27	505-72	-0-26	-2630	0-02	60	6100	3470	3530
Nov. 1-10	496-31	503-95	0-04	450	-1-77	-5720	6300	6750	1030
11-20	496-42	502-20	0-11	1220	-1-75	-5650	6850	8070	2420
21-30	496-45	501-00	0-03	330	-1-20	-3880	6890	7220	3340
Dec. 1-10	496-40	499-85	-0-05	-560	-1-15	-3720	6880	6320	2800
11-20	496-30	498-80	-0-10	-1110	-1-05	-3390	6910	4800	2410
21-31	496-13	498-05	-0-17	-1720	-0-75	-2210	7200	5480	3270
1922									
Jan. 1-10	495-88	497-52	-0-25	-2780	-0-53	-1710	6680	3900	2190
11-20	495-65	497-21	-0-23	-2560	-0-31	-1000	6020	3460	2460
21-31	495-34	496-95	-0-31	-3140	-0-26	-760	6410	3270	2510
Feb. 1-10	495-00	496-73	-0-34	-3780	-0-22	-710	6910	3130	2420
11-20	494-78	496-53	-0-22	-2450	-0-20	-650	6220	3770	3120
21-28	494-40	496-38	-0-38	-5290	-0-20	-610	7410	2120	1510
Mar. 1-10	493-99	496-20	-0-41	-4560	-0-18	-580	7810	3250	2670
11-20	493-60	496-05	-0-39	-4340	-0-15	-490	7000	2660	2170
21-31	493-26	495-95	-0-34	-3440	-0-10	-290	7060	3620	3330
April 1-10	493-35	496-80	0-09	1000	0-85	2750	5800	5900	8650
11-20	494-13	498-62	0-78	8680	1-82	5880	7230	15910	17460
21-30	494-65	500-10	0-52	5790	1-48	4780	8470	14260	21790
May 1-10	495-15	501-20	0-50	5570	1-10	3550	8970	14540	19090
11-20	495-70	503-30	0-55	6120	2-10	6780	8640	14760	21540
21-31	495-91	505-30	0-21	2130	2-00	5880	9450	11580	17460
June 1-10	496-05	506-75	0-14	1560	1-45	4680	9570	11430	16110
11-20	496-18	507-76	0-13	1450	1-01	3260	9120	10570	13830
21-30	496-19	508-27	0-01	110	0-51	1650	9230	9340	10990
July 1-10	496-25	508-26	0-06	670	-0-01	-30	7440	8110	8080
11-20	496-20	508-00	-0-05	-560	-0-26	-840	8770	8210	7370
21-31	496-22	507-85	0-02	200	-0-15	-440	8050	8250	7810
Aug. 1-10	496-20	507-61	-0-02	-220	-0-24	-780	7650	7430	6650
11-20	496-15	507-18	-0-05	-560	-0-43	-1300	7670	7110	5720
21-31	495-98	506-64	-0-17	-1720	-0-54	-1580	7770	6050	4460
Sept. 1-10	495-84	506-18	-0-14	-1560	-0-46	-1490	6850	5290	3800
11-20	495-64	505-55	-0-20	-2230	-0-63	-2030	7260	5030	3000
21-30	495-66	503-60	0-02	220	-1-95	-6300	7420	7640	1340
Oct. 1-10	495-71	501-55	0-05	560	-2-05	-6620	6780	7340	720
11-20	495-64	500-00	-0-07	-780	-1-55	-5010	6660	5880	870
21-31	495-51	498-70	-0-13	-1320	-1-30	-3820	6700	5380	1560
Nov. 1-10	495-43	498-18	-0-08	-890	-0-52	-1680	7130	6240	4560
11-20	495-12	497-80	-0-31	-3450	-0-38	-1230	6930	3480	2250
21-30	494-84	497-50	-0-28	-3120	-0-30	-970	6960	3840	2870
Dec. 1-10	494-65	497-01	-0-19	-2110	-0-49	-1580	6430	4320	2740
11-20	494-43	496-70	-0-22	-2450	-0-31	-1000	6790	4340	3340
21-31	494-10	496-47	-0-33	-3340	-0-23	-680	6420	3080	2400

Lake levels refer to elevations on 1st, 11th and 21st of each month.

## STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Lake level		Change in storage				Rainy Lake		Com- bined in- flow
	Rainy	Namakan	Rainy		Namakan		Out- flow	In- flow	
			Foot depth	Equiv- alent c.f.s.	Foot depth	Equiv- alent c.f.s.			
1923									
Jan. 1-10.....	493.72	496.28	-0.38	-4230	-0.19	- 610	6970	2740	2130
11-20.....	493.42	496.07	-0.30	-3340	-0.21	- 680	7160	3820	3140
21-31.....	492.95	495.77	-0.47	-4760	-0.30	- 880	7560	2800	1920
Feb. 1-10.....	492.45	495.50	-0.50	-5570	-0.27	- 870	7740	2170	1300
11-20.....	492.04	495.20	-0.41	-4560	-0.30	- 970	7650	3090	2120
21-28.....	491.60	494.98	-0.44	-6120	-0.22	- 890	7870	1750	860
Mar. 1-10.....	491.07	494.85	-0.53	-5900	-0.13	- 420	8050	2150	1730
11-20.....	490.53	494.74	-0.54	-6010	-0.11	- 360	7290	1280	920
21-31.....	490.15	494.63	-0.38	-3850	-0.11	- 320	6160	2310	1990
April 1-10.....	489.84	494.58	-0.31	-3450	-0.05	- 160	5330	1880	1720
11-20.....	490.03	495.45	0.19	2110	0.87	2810	5280	7390	10200
21-30.....	491.53	497.67	1.50	16700	2.22	7170	5340	22040	29210
May 1-10.....	492.46	499.70	0.93	10350	2.03	6560	4230	14580	21140
11-20.....	492.95	500.30	0.49	5460	0.60	1940	6240	11700	13640
21-31.....	493.36	500.55	0.41	4150	0.25	740	6690	10840	11580
June 1-10.....	493.51	500.60	0.15	1670	0.05	160	6540	8210	8370
11-20.....	493.60	500.78	0.09	1000	0.18	580	6580	7580	8160
21-30.....	493.70	501.16	0.10	1110	0.38	1230	6910	8020	9250
July 1-10.....	493.80	501.20	0.10	1110	0.04	130	5810	6920	7050
11-20.....	493.72	501.26	-0.08	- 890	0.06	190	6510	5620	5810
21-31.....	493.55	501.26	-0.17	-1720	0	0	6600	4880	4880
Aug. 1-10.....	493.41	501.12	-0.14	-1560	-0.14	- 450	6260	4700	4250
11-20.....	493.35	500.70	-0.06	- 670	-0.42	-1360	5750	5080	3720
21-31.....	493.40	500.25	0.05	510	-0.45	-1320	5440	5950	4630
Sept. 1-10.....	493.44	499.65	0.04	450	-0.60	-1940	4770	5220	3280
11-20.....	493.30	499.25	-0.14	-1560	-0.40	-1290	5400	3840	2550
21-30.....	493.20	498.85	-0.10	-1110	-0.40	-1290	5240	4130	2840
Oct. 1-10.....	492.95	498.47	-0.25	-2780	-0.38	-1230	5440	2660	1430
11-20.....	492.83	498.15	-0.12	-1340	-0.32	-1030	4490	3150	2120
21-31.....	492.62	497.85	-0.21	-2130	-0.30	- 880	3890	1760	880
Nov. 1-10.....	492.35	497.56	-0.27	-3000	-0.29	- 940	4040	1040	100
11-20.....	492.17	497.35	-0.18	-2000	-0.21	- 680	3960	1960	1280
21-30.....	492.05	497.15	-0.12	-1340	-0.20	- 650	3900	2560	1910
Dec. 1-10.....	491.90	496.90	-0.15	-1670	-0.25	- 810	3870	2200	1390
11-20.....	491.70	496.65	-0.20	-2230	-0.25	- 810	4220	1990	1180
21-31.....	491.46	496.38	-0.24	-2430	-0.27	- 790	4110	1680	890
1924									
Jan. 1-10.....	491.20	496.20	-0.26	-2890	-0.18	- 580	4840	1950	1370
11-20.....	490.95	496.03	-0.25	-2780	-0.17	- 550	4050	1270	720
21-31.....	490.75	495.80	-0.20	-2020	-0.23	- 680	4010	1990	1310
Feb. 1-10.....	490.61	495.64	-0.14	-1560	-0.16	- 520	3130	1570	1050
11-20.....	490.50	495.46	-0.11	-1220	-0.18	- 580	3240	2020	1440
21-29.....	490.35	495.30	-0.15	-1860	-0.16	- 580	3030	1170	590
Mar. 1-10.....	490.28	495.15	-0.07	- 780	-0.15	- 490	3160	2380	1890
11-20.....	490.09	495.02	-0.19	-2110	-0.13	- 420	3430	1320	900
21-31.....	489.93	494.88	-0.16	-1620	-0.14	- 410	3530	1910	1500
April 1-10.....	489.87	494.84	-0.06	- 670	-0.04	- 130	3790	3120	2990
11-20.....	489.95	495.00	0.08	890	0.16	520	3960	4850	5370
21-30.....	490.10	495.72	0.15	1670	0.72	2330	3990	5660	7990
May 1-10.....	490.20	495.86	0.10	1110	0.14	450	4400	5510	5960
11-20.....	490.40	496.35	0.20	2230	0.49	1580	4010	6240	7820
21-31.....	490.61	496.64	0.21	2130	0.29	850	3920	6050	6900
June 1-10.....	490.80	497.28	0.19	2110	0.64	2070	3680	5790	7860
11-20.....	490.94	497.83	0.14	1560	0.55	1780	4280	5840	7620
21-30.....	490.99	498.25	0.05	560	0.42	1360	4860	5420	6780
July 1-10.....	490.94	498.43	-0.05	- 560	0.18	580	4060	4500	5080
11-20.....	490.93	498.28	-0.01	- 110	-0.15	- 490	4150	4040	3550
21-31.....	491.03	498.35	0.10	1010	0.07	210	4170	5180	5390
Aug. 1-10.....	490.95	498.45	-0.08	- 890	-0.10	- 320	3550	2660	2980
11-20.....	490.93	498.55	-0.02	- 220	-0.10	- 320	4050	3830	4150
21-31.....	490.88	498.62	-0.05	- 510	0.07	210	3890	3380	3590
Sept. 1-10.....	490.88	498.70	0	0	0.08	260	3260	3260	3520
11-20.....	490.92	498.93	0.04	450	0.23	740	3220	3670	4410
21-30.....	490.97	499.33	0.05	560	0.40	1290	3040	3600	4890
Oct. 1-10.....	491.10	499.76	0.13	1450	0.43	1390	3120	4570	5960
11-20.....	491.40	501.15	0.30	3340	1.39	4490	3050	6390	17880
21-31.....	491.80	501.12	0.40	4050	-0.03	- 90	3360	7410	9000
Nov. 1-10.....	492.25	500.50	0.45	5010	-0.53	-1710	3510	8520	6810
11-20.....	492.65	500.05	0.40	4450	-0.54	-1740	4020	8470	6730
21-30.....	492.94	499.45	0.29	3230	-0.60	-1940	3710	6940	5000
Dec. 1-10.....	493.16	499.04	0.22	2450	-0.41	-1320	3700	6150	4830
11-20.....	493.52	498.68	0.16	1780	-0.36	-1160	3640	5420	4260
21-31.....	493.45	498.30	0.13	1320	-0.38	-1120	3410	4730	3610

Lake levels refer to elevations on 1st, 11th and 21st of each month.

RAINY LAKE INVESTIGATION

STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE—Concluded

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Lake level		Change in storage				Rainy Lake		Com- bined in- flow
	Rainy	Namakan	Rainy		Namakan		Out- flow	In- flow	
			Foot depth	Equiv- alent c.f.s.	Foot depth	Equiv- alent c.f.s.			
1925									
Jan. 1-10	493-55	498-01	0-10	1110	-0-29	- 940	3560	4670	3730
11-20	493-60	497-80	0-05	560	-0-21	- 680	3730	4290	3610
21-31	493-60	497-53			-0-27	- 790	3590	3590	2800
Feb. 1-10	493-70	497-34	0-10	1110	-0-19	- 610	3480	4590	3980
11-20	493-70	497-16			-0-18	- 580	3500	3500	2920
21-28	493-70	496-98			-0-18	- 730	3620	3620	2890
Mar. 1-10	493-70	496-94			-0-04	- 130	3850	3850	3720
11-20	493-70	496-85			-0-09	- 290	4180	4180	3890
21-31	493-60	497-05	-0-10	-1010	0-20	590	4930	3920	4520
Apr. 1-10	494-00	497-69	0-40	4450	0-64	2070	5060	9510	11580
11-20	494-40	498-40	0-40	4450	0-71	2290	4770	9220	11510
21-30	494-94	499-33	0-54	6010	0-93	3000	5210	11220	14220
May 1-10	495-05	501-10	0-11	1220	0-77	2490	6130	7350	9840
11-20	495-12	502-35	0-07	780	1-25	4040	5880	6660	10700
21-31	495-13	503-70	0-01	100	1-35	3970	5930	6030	10000
June 1-10	495-51	505-70	0-38	4230	2-00	6460	6390	10620	17080
11-20	495-85	507-00	0-34	3780	1-30	4200	6920	10700	14900
21-30	496-21	507-60	0-36	4010	0-60	1940	6910	10920	12860
July 1-10	496-52	507-87	0-31	3450	0-27	870	7440	10890	11760
11-20	496-57	507-90	0-05	560	0-03	100	7450	8010	8110
21-31	496-59	507-95	0-02	200	0-05	150	6860	7060	7210
Aug. 1-10	496-59	507-75			-0-20	- 650	6210	6210	5560
11-20	496-57	507-47	-0-02	- 220	-0-28	- 900	6130	5910	5010
21-31	496-54	507-10	-0-03	- 300	-0-37	-1090	5640	5340	4250
Sept. 1-10	496-52	506-91	-0-02	- 220	-0-19	- 610	5050	4830	4220
11-20	496-50	506-55	-0-02	- 220	-0-36	-1160	5980	5760	4600
21-30	496-22	506-19	-0-28	-3120	-0-36	-1160	6170	3050	1890
Oct. 1-10	495-98	505-89	-0-24	-2670	-0-30	- 970	6100	3430	2460
11-20	495-83	505-59	-0-15	-1670	-0-30	- 970	5790	4120	3150
21-31	495-73	504-80	-0-10	-1010	-0-79	-2320	5750	4740	2420
Nov. 1-10	495-80	504-00	0-07	780	-0-80	-2580	5930	6710	4130
11-20	495-85	502-80	0-05	560	-1-20	-3880	5950	6510	2630
21-30	495-88	501-50	0-03	330	-1-30	-4200	5910	6140	1940
Dec. 1-10	495-97	500-40	0-09	1000	-1-10	-3550	6030	7030	3480
11-20	495-97	499-10			-1-30	-4200	6540	6540	2340
21-31	495-88	498-35	-0-09	- 910	-0-75	-2210	5640	4730	2520
1926									
Jan. 1-10	495-76	497-90	-0-12	-1340	-0-45	-1450	5990	4650	3200
11-20	495-62	497-50	-0-14	-1560	-0-40	-1290	5850	4290	3000
21-31	495-40	497-22	-0-22	-2230	-0-28	- 820	5790	3560	2740
Feb. 1-10	495-14	497-05	-0-26	-2890	-0-17	- 550	6230	3340	2780
11-20	494-90	496-83	-0-24	-2670	-0-22	- 710	6000	3330	2620
21-28	494-70	496-63	-0-20	-2780	-0-20	- 810	5540	2760	1950
Mar. 1-10	494-48	496-50	-0-22	-2450	-0-13	- 420	5670	3220	2800
11-20	494-20	496-39	-0-28	-3120	-0-11	- 360	6110	2990	2630
21-31	493-88	496-40	-0-32	-3240	0-01	- 30	6320	3080	3110
Apr. 1-10	493-55	496-33	-0-33	-3670	-0-07	- 230	6350	2680	2450
11-20	493-55	496-90			0-57	1840	5720	5720	7560
21-30	493-70	497-55	0-15	1670	0-65	2100	5540	7210	9310
May 1-10	493-78	497-83	0-08	890	0-28	900	5290	6180	7080
11-20	493-78	498-02			0-19	610	5420	5420	6030
21-31	494-05	499-35	0-27	2730	1-33	3910	4980	7710	11620
June 1-10	494-30	500-15	0-25	2780	0-80	2580	5310	8090	10670
11-20	494-83	501-55	0-53	5900	1-40	4520	5220	11120	15640
21-30	495-58	503-30	0-75	8350	1-75	5650	5190	13540	19190
July 1-10	496-09	505-25	0-51	5680	1-95	6300	5240	10920	17220
11-20	496-38	506-90	0-29	3230	1-65	5330	6000	10130	15460
21-31	496-51	507-90	0-13	1320	1-00	2940	7010	9230	12170
Aug. 1-10	496-60	508-40	0-09	1000	0-50	1620	7170	8170	9790
11-20	496-67	508-43	0-07	780	0-03	100	7910	8690	8790
21-31	496-64	508-15	-0-03	-300	-0-28	- 820	8260	7960	7140
Sept. 1-10	496-66	508-13	0-02	220	-0-02	- 60	7840	8060	8000
11-20	496-67	507-95	0-01	110	-0-81	- 580	7880	7990	7410
21-30	496-55	508-05	-0-12	-1340	0-10	320	8840	7500	7820
Oct. 1-10	496-90	508-50	0-35	3900	0-45	1450	8940	12840	14290
11-20	497-40	508-45	0-50	5570	-0-05	- 160	10150	15720	15560
21-31	497-50	508-40	0-10	1010	-0-05	- 150	14310	15320	15170
Nov. 1-10	497-40	508-31	-0-10	-1110	-0-09	- 290	16250	15140	14850
11-20	497-37	508-24	-0-03	- 330	-0-07	- 230	13570	13240	13010
21-30	497-44	508-07	0-07	780	-0-17	- 550	12390	13170	12620
Dec. 1-10	497-47	508-00	0-03	330	-0-07	- 230	11820	12150	11920
11-20	497-40	507-78	-0-07	- 780	-0-02	- 710	11560	10780	10070
21-31	497-30	507-45	-0-10	-1010	-0-33	- 970	10860	9850	8880

Lake levels refer to elevations on 1st, 11th and 21st of each month.

## STORAGE, OUTFLOW, AND INFLOW—RAINY LAKE

Date	Lake level		Change in storage				Rainy Lake		Com- bined in- flow
	Rainy	Namakan	Rainy		Namakan		Out- flow	In- flow	
			Foot depth	Equiv- alent c.f.s.	Foot depth	Equiv- alent c.f.s.			
1927									
Jan. 1-10.....	497-20	507-18	-0-10	-1110	-0-27	- 870	11170	10060	9190
11-20.....	497-09	506-88	-0-11	-1220	-0-30	- 970	10520	9300	8330
21-30.....	496-85	506-56	-0-24	-2430	-0-32	- 940	9950	7520	6580
Feb. 1-10.....	496-68	506-29	-0-17	-1890	-0-27	- 870	10090	8200	7330
11-20.....	496-62	505-24	-0-06	- 670	-1-05	-3390	9880	9210	5820
21-28.....	496-60	503-90	-0-02	- 280	-1-34	-5400	10270	9990	4590
Mar. 1-10.....	496-40	502-34	-0-20	-2230	-1-56	-5040	12580	10350	5310
11-20.....	496-00	501-54	-0-40	-4450	-0-80	-2580	12840	8390	5810
21-31.....	495-95	500-65	-0-05	- 510	-0-89	-2620	10340	9830	7210
April 1-10.....	496-10	500-61	0-15	1670	-0-04	- 130	10230	11900	11770
11-20.....	496-90	503-70	0-80	8910	3-09	9980	14610	23520	33500
21-30.....	497-25	507-50	0-35	3900	3-80	12270	22340	26240	38510
May 1-10.....	497-73	510-00	0-48	5340	2-50	8080	30720	36060	44140
11-20.....	498-34	510-33	0-61	6790	0-33	1070	35450	42240	43310
21-31.....	498-68	510-05	0-34	3440	-0-28	- 820	37090	40530	39710
June 1-10.....	498-67	509-14	-0-01	- 110	-0-91	-2940	37320	37210	34270
11-20.....	498-29	508-90	-0-38	-4230	-0-24	- 780	36740	32510	31730
21-30.....	497-95	509-48	-0-34	-3780	0-58	1870	35790	32010	33880
July 1-10.....	497-95	509-56	0	0	0-08	260	31030	34030	34280
11-20.....	498-05	509-49	0-10	1110	-0-07	- 230	35110	36220	35990
21-31.....	497-63	509-30	-0-42	-4250	-0-19	- 560	29330	25080	24520
Aug. 1-10.....	497-65	508-78	0-02	220	-0-52	-1680	16980	17200	15520
11-20.....	497-50	508-20	-0-15	-1670	-0-58	-1870	16700	15120	13250
21-31.....	497-60	508-15	0-10	1010	-0-05	- 150	10010	11020	10870
Sept. 1-10.....	497-51	508-03	-0-09	-1000	-0-12	- 390	11110	10110	9720
11-20.....	497-31	507-50	-0-20	-2230	-0-53	-1710	8620	6390	4680
21-30.....	497-25	507-04	-0-06	- 670	-0-46	-1490	8660	7990	6500
Oct. 1-10.....	497-23	506-60	-0-02	- 220	-0-44	-1420	8450	8230	6810
11-20.....	497-00	506-15	-0-23	-2560	-0-45	-1450	9390	6830	5380
21-31.....	496-81	505-55	-0-19	-1920	-0-60	-1760	8880	6960	5200
Nov. 1-10.....	496-57	505-04	-0-24	-2670	-0-51	-1650	9680	7010	5360
11-20.....	496-34	504-53	-0-23	-2560	-0-51	-1650	8670	6110	4460
21-30.....	495-97	504-07	-0-37	-4120	-0-46	-1490	9490	5370	3880
Dec. 1-10.....	495-70	503-77	-0-27	-3010	-0-30	- 970	7830	4820	3850
11-20.....	495-50	503-10	-0-20	-2230	-0-67	-2160	9120	6890	4730
21-31.....	495-50	501-50	.....	.....	-1-60	-4700	8170	8170	3470

Lake levels refer to elevations on 1st, 11th and 21st of each month.

STORAGE, OUTFLOW AND INFLOW—RAINY LAKE

MONTHLY MEANS

[Watershed area, 14500 square miles]

Date	Lake Levels						Outflow		Inflow *	
	Actual controlled level			Computed natural level			Actual controlled outflow average c.f.s.	Computed natural outflow average c.f.s.	Actual inflow average c.f.s.	Inches depth on drainage area
	Mean for month	Change in level		Mean for month	Change in level					
		Rise feet	Fall feet		Rise feet	Fall feet				
1909										
Jan.....				488-68		0-60	4905	2751	0-22	
Feb.....				488-07		0-50	4104	2117	0-15	
Mar*.....	487-59		0-55	487-51		0-35	4235	3505	2260	0-18
April.....	487-34	0-31		487-34	0-07		2463	3346	3613	0-28
May.....	489-40	4-20		489-03	2-96		560	5299	15642	1-24
June.....	493-25	2-79		491-35	2-01		6818	9743	17171	1-32
July.....	494-72	0-10		492-41	0-17		11214	12128	11572	0-92
Aug.....	494-98	0-48		492-39	0-17		11023	12083	12746	1-01
Sept.....	495-12		0-23	492-06		0-71	9520	11340	8666	0-67
Oct.....	494-82		0-02	491-43		0-41	8550	9923	8478	0-67
Nov.....	495-47	1-29		491-30	0-14		5377	9630	10164	0-78
Dec.....	496-54	0-32		491-69	0-32		10468	10508	11616	0-92
Annual.....	492-92			490-27			7036	8070	8944	8-36
1910										
Jan.....	496-38		0-50	491-65		0-33	10986	10418	9191	0-73
Feb.....	495-46		1-22	491-00		0-83	10514	8970	5603	0-41
Mar.....	494-33		0-50	490-41	0-18		10112	7701	8318	0-66
April.....	495-01	1-16		491-63	1-48		11568	10372	15872	1-22
May.....	495-40		0-21	492-19		0-26	11424	11633	10671	0-85
June.....	494-72		1-17	491-46		1-03	10469	9990	6128	0-47
July.....	493-66		0-77	490-40		1-08	6529	7680	3764	0-30
Aug.....	493-04		0-61	489-46		0-81	5207	5951	3018	0-24
Sept.....	492-34		0-83	488-68		0-77	5043	4814	1963	0-15
Oct.....	491-48		0-89	488-02		0-47	5473	4022	2278	0-18
Nov.....	490-44		1-07	487-56		0-49	5739	3552	1769	0-14
Dec.....	489-47		0-87	487-00		0-58	4100	3045	976	0-08
Annual.....	493-48			489-96			8076	7334	5795	5-43
1911										
Jan.....	488-93		0-28	486-63		0-26	2800	2753	1795	0-44
Feb.....	488-67		0-21	486-36		0-22	2505	2550	1670	0-12
Mar.....	488-44		0-27	486-16		0-20	2594	2402	1625	0-13
April.....	488-85	1-38		486-61	1-35		2600	2738	7720	0-59
May.....	490-25	1-21		488-05	1-40		4810	4055	9158	0-73
June.....	491-74	1-55		489-69	1-45		6016	6333	11767	0-91
July.....	492-95	0-99		490-29	0-09		4211	7455	7766	0-62
Aug.....	493-58	0-13		490-30	0-25		6189	7475	6655	0-53
Sept.....	493-36		0-36	489-79		0-58	5725	6507	4391	0-34
Oct.....	493-12		0-30	489-32		0-53	4969	5731	3892	0-31
Nov.....	492-76		0-32	488-82		0-32	4977	5003	3790	0-29
Dec.....	492-37		0-46	488-55		0-30	5180	4648	3529	0-28
Annual.....	491-25			488-38			4392	4819	5326	4-99

\*Rainy Lake brought under control.

Water levels in Rainy Lake, inflow into and outflow from Rainy Lake, from 1905 to 1911, are based mainly on observed water levels above and below Falls.

Water levels in Rainy Lake, inflow into and outflow from Rainy Lake, from 1911 to 1914, are based on observed values.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.



## STORAGE, OUTFLOW AND INFLOW—RAINY LAKE

[Watershed area, 14500 square miles]

Date	Lake Levels						Outflow		Inflow	
	Actual controlled level			Computed natural level			Actual controlled outflow average c.f.s.	Computed natural outflow average c.f.s.	Actual inflow average c.f.s.	Inches depth on drainage area
	Mean for month	Change in level		Mean for month	Change in level					
	Rise, feet	Fall, feet		Rise, feet	Fall, feet					
1912										
Jan.....	491-76		0-76	488-17		0-43	5334	4191	2606	0-21
Feb.....	491-08		0-62	487-80		0-35	4828	3790	2450	0-18
Mar.....	490-34		0-83	487-37		0-44	4738	3373	1758	0-14
April.....	489-95	0-51		487-39	0-90		4851	3391	6744	0-52
May.....	491-60	2-50		489-33	2-57		6088	5747	15064	1-20
June.....	494-28	2-54		491-51	1-45		6016	10103	15440	1-19
July.....	496-01	0-92		492-03		0-07	7700	11273	11003	0-88
Aug.....	496-26		0-04	491-64		0-66	8120	10395	7976	0-63
Sept.....	496-29		0-06	491-04		0-52	7368	9058	7145	0-55
Oct.....	496-20		0-24	490-56		0-56	6881	8019	6019	0-48
Nov.....	495-77		0-59	489-94		0-62	6727	6779	4538	0-35
Dec.....	495-12		0-64	489-37		0-51	6280	5809	3981	0-32
Annual.....	493-72			489-68			6252	6838	7070	6-65
1913										
Jan.....	494-43		0-83	488-93		0-42	6620	5157	3640	0-29
Feb.....	493-45		0-98	488-43		0-46	6561	4498	2665	0-19
Mar.....	492-47		1-05	488-04		0-38	6417	4044	2647	0-21
April.....	491-85	0-20		488-09	0-81		6372	4099	7113	0-55
May.....	493-02	2-30		489-66	1-35		6620	6282	14879	1-18
June.....	496-06	2-67		492-12	1-57		7277	11475	17184	1-32
July.....	497-34	0-23		492-72	0-15		12599	12825	13426	1-07
Aug.....	497-34		0-01	492-31		0-94	8535	11903	8499	0-68
Sept.....	497-20		0-39	491-25		1-11	6770	9520	5324	0-41
Oct.....	496-93		0-19	490-47		0-61	6350	7827	5668	0-45
Nov.....	496-70		0-17	489-91		0-34	6096	6724	5465	0-42
Dec.....	496-28		0-64	489-48		0-55	6303	5983	4005	0-32
Annual.....	495-26			490-12			7222	7548	7570	7-09
*1914										
Jan.....	495-60		0-75				6719		4026	0-32
Feb.....	494-77		0-82				6859		3601	0-26
Mar.....	493-77		1-21				6706		2361	0-19
April.....	492-84		0-27				6693		5691	0-44
May.....	493-71	1-80					6868		13331	1-06
June.....	495-76	2-15					8463		16441	1-27
July.....	497-37	0-55					10464		12539	0-99
Aug.....	497-15		0-60				10044		7890	0-63
Sept.....	496-73		0-00				9749		9749	0-75
Oct.....	496-73		0-20				9787		9069	0-72
Nov.....	496-12		0-95				9926		6402	0-49
Dec.....	495-22		0-85				8994		5942	0-47
Annual.....	495-48						8449		8099	7-59
Average for period.....	493-71			490-98			†6900	†10232	10060	9-43

\*The inflow into Rainy Lake during 1914 was partly controlled as a result of the construction of storage dams at Kettle Falls.

†Average from March 1, 1909, to December 31, 1914.

‡Average from October 1, 1909, to December 31, 1913.

NOTE.—Water levels in Rainy Lake, inflow into and outflow from Rainy Lake, from 1911 to 1914, are based on observed values.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

RAINY LAKE INVESTIGATION

STORAGE, OUTFLOW AND INFLOW—RAINY LAKE

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD FROM RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

Date	Mean lake level for month	Change in level		Equivalent storage in feet	Actual outflow, average c.f.s.	Actual inflow, average c.f.s.	Inflow	
		Rise, feet	Fall, feet				Sec.-feet per square mile	Run-off depth in inches
1915								
Jan.....	494.15		-1.35	-4850	9240	4390	0.30	0.35
Feb.....	492.93		-1.05	-4180	7840	3660	0.25	0.27
Mar.....	491.78		-1.30	-4670	7360	2690	0.19	0.21
April.....	490.97	0.10		370	7500	7870	0.54	0.61
May.....	491.50	0.55		1980	7810	9790	0.68	0.78
June.....	493.13	2.55		9460	7340	16800	1.16	1.29
July.....	495.16	1.55		5570	8330	13900	0.96	1.11
Aug.....	495.98	0.20		720	8750	9470	0.65	0.75
Sept.....	496.05	0		0	7510	7510	0.52	0.58
Oct.....	496.10	0.25		900	6980	7880	0.54	0.63
Nov.....	496.75	0.80		2970	6920	9890	0.68	0.76
Dec.....	497.15	0.05		180	8790	8970	0.62	0.71
Annual.....	494.30				7860	8570	0.59	8.05
1916								
Jan.....	497.06		-0.25	-900	8820	7920	0.55	0.63
Feb.....	496.65		-0.65	-2490	9200	6710	0.46	0.50
Mar.....	495.72		-1.00	-3590	9630	6040	0.42	0.48
April.....	495.65	2.15		7980	9400	17380	1.20	1.34
May.....	498.82	3.25		11670	23760	35430	2.44	2.81
June.....	500.58		-0.80	-2970	36050	33080	2.28	2.54
July.....	498.75		-1.85	-6640	24060	17420	1.20	1.38
Aug.....	497.77		-0.55	-1970	12540	10570	0.73	0.84
Sept.....	497.47	0.10		370	10660	11030	0.76	0.85
Oct.....	497.28		-0.40	-1440	10920	9480	0.65	0.75
Nov.....	497.13		-0.05	-190	10120	9930	0.68	0.76
Dec.....	497.05		-0.05	-180	9540	9360	0.65	0.75
Annual.....	497.49				14560	14530	1.00	13.63
1917								
Jan.....	496.90		-0.35	-1260	10340	9080	0.63	0.73
Feb.....	496.39		-0.75	-2980	10150	7170	0.59	0.51
Mar.....	495.30		-1.40	-5030	10100	5070	0.35	0.40
April.....	493.91		-0.85	-3150	10250	7100	0.49	0.55
May.....	493.66		-0.20	-720	10160	9440	0.65	0.75
June.....	493.33		-0.34	-1260	9400	8140	0.56	0.63
July.....	492.86		-0.76	-2730	9490	6760	0.46	0.53
Aug.....	491.92		-0.95	-3410	9050	5640	0.32	0.37
Sept.....	491.16		-0.53	-1970	6980	5010	0.34	0.38
Oct.....	490.81		-0.08	-290	5710	5420	0.37	0.43
Nov.....	490.87		-0.04	-150	5590	5440	0.38	0.42
Dec.....	490.69		-0.15	-540	5160	4620	0.32	0.37
Annual.....	493.15				8530	6570	0.45	6.07
1918								
Jan.....	490.52		-0.18	-650	4430	3780	0.26	0.30
Feb.....	490.46		-0.05	-200	3260	3060	0.21	0.22
Mar.....	490.24		-0.23	-830	3740	2910	0.20	0.23
April.....	490.31	0.46		1710	4020	5730	0.40	0.45
May.....	491.44	1.75		6280	4310	10590	0.73	0.84
June.....	493.31	1.70		6310	4880	11190	0.77	0.86
July.....	494.60	0.96		3450	5730	9180	0.63	0.73
Aug.....	495.15		-0.01	-40	7430	7390	0.51	0.59
Sept.....	494.67		-0.81	-3010	6720	3710	0.26	0.29
Oct.....	493.95		-0.59	-2120	6820	4700	0.32	0.37
Nov.....	493.83	0.40		1480	5160	6640	0.46	0.51
Dec.....	494.10	0.05		180	5840	6020	0.42	0.48
Annual.....	492.72				5200	6240	0.43	5.87
1919								
Jan.....	493.83		-0.65	-2330	6800	4470	0.31	0.36
Feb.....	493.06		-0.77	-3070	6710	3640	0.25	0.26
Mar.....	492.20		-0.75	-2690	5940	3250	0.22	0.25
April.....	492.40	1.15		4270	5050	9320	0.64	0.71
May.....	493.98	2.20		7900	4840	12740	0.88	1.01
June.....	495.89	0.87		3230	8080	11310	0.78	0.87
July.....	497.18	0.99		3560	10630	14190	0.98	1.13
Aug.....	495.90		-0.64	-2300	9880	7580	0.52	0.60
Sept.....	496.35	0.00		0	8710	8710	0.60	0.67
Oct.....	496.37		-0.22	-790	8470	7680	0.53	0.61
Nov.....	496.19		-0.17	-630	7270	6640	0.46	0.51
Dec.....	495.95		-0.31	-1120	5980	4860	0.34	0.39
Annual.....	495.03				6530	7870	0.54	7.37

## STORAGE, OUTFLOW AND INFLOW—RAINY LAKE—Continued

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Mean lake level for month	Change in level		Equivalent storage in feet	Actual outflow, average c.f.s.	Actual inflow, average c.f.s.	Inflow	
		Rise, feet	Fall, feet				Sec.-feet per square mile	Run-off depth in inches
1920								
Jan.....	495-51		-0-61	-2190	6500	4310	0-30	0-34
Feb.....	494-79		-0-85	-3260	6840	3580	0-25	0-27
Mar.....	493-82		-0-78	-2800	7200	4400	0-30	0-35
April.....	493-54	0-49		1820	7880	9700	0-67	0-75
May.....	494-80	1-88		6750	7680	14430	1-00	1-15
June.....	496-64	1-22		4530	10760	15290	1-05	1-18
July.....	497-30	0-20		720	14860	15580	1-07	1-24
Aug.....	497-26		-0-25	-900	10240	9340	0-64	0-74
Sept.....	496-89		-0-34	-1260	7730	6470	0-45	0-50
Oct.....	496-66		-0-15	-540	6620	6080	0-42	0-48
Nov.....	496-48		-0-32	-1190	6920	5730	0-40	0-44
Dec.....	496-09		-0-31	-1110	4550	3440	0-24	0-27
Annual.....	495-82				8150	8200	0-57	7-71
1921								
Jan.....	495-57		-0-91	-3270	5720	2450	0-17	0-20
Feb.....	494-88		-0-32	-1270	3880	2610	0-18	0-19
Mar.....	494-24		-1-10	-3950	6550	2600	0-18	0-21
April.....	494-06	0-77		2860	7640	10500	0-72	0-81
May.....	495-14	1-56		5600	5710	11310	0-78	0-90
June.....	496-41	0-77		2860	5770	8630	0-60	0-66
July.....	496-84	0-06		220	7100	7320	0-51	0-58
Aug.....	496-78	0-07		250	5570	5820	0-40	0-46
Sept.....	496-91		-0-16	-590	6730	6140	0-42	0-47
Oct.....	496-53		-0-45	-1620	5710	4090	0-28	0-33
Nov.....	496-35	0-18		670	6680	7350	0-51	0-57
Dec.....	496-33		-0-33	-1190	7000	5810	0-40	0-46
Annual.....	495-83				6170	6220	0-43	5-84
1922								
Jan.....	495-76		-0-78	-2800	6370	3570	0-25	0-28
Feb.....	494-94		-0-94	-3740	6810	3070	0-21	0-22
Mar.....	493-82		-1-14	-4090	7290	3200	0-22	0-26
April.....	493-75	1-39		5160	7160	12320	0-85	0-95
May.....	495-36	1-26		4520	9040	13560	0-94	1-08
June.....	496-08	0-28		1040	9410	10450	0-72	0-80
July.....	496-21	0-03		110	8080	8190	0-57	0-65
Aug.....	496-16		-0-24	-860	7700	6840	0-47	0-54
Sept.....	495-77		-0-32	-1190	7170	5980	0-41	0-46
Oct.....	495-66		-0-15	-540	6710	6170	0-43	0-49
Nov.....	495-26		-0-67	-2490	7010	4520	0-31	0-35
Dec.....	494-53		-0-74	-2660	6540	3880	0-27	0-31
Annual.....	495-28				7440	6810	0-47	6-39
1923								
Jan.....	493-57		-1-15	-4130	7430	3300	0-23	0-26
Feb.....	492-35		-1-35	-5370	7870	2500	0-17	0-18
Mar.....	490-82		-1-45	-5210	7140	1930	0-13	0-15
April.....	490-19	1-38		5120	5320	10440	0-72	0-80
May.....	492-66	1-83		6570	5750	12320	0-85	0-98
June.....	493-55	0-34		1260	6680	7940	0-55	0-61
July.....	493-72		-0-15	-540	6320	5780	0-40	0-46
Aug.....	493-40		-0-15	-540	5800	5260	0-36	0-42
Sept.....	493-36		-0-20	-740	5140	4400	0-30	0-34
Oct.....	492-90		-0-58	-2080	4580	2500	0-17	0-20
Nov.....	492-31		-0-57	-2120	3970	1850	0-13	0-14
Dec.....	491-79		-0-59	-2120	4070	1950	0-13	0-16
Annual.....	492-55				5840	5010	0-35	4-70
1924								
Jan.....	491-09		-0-71	-2550	4290	1740	0-12	0-14
Feb.....	490-57		-0-40	-1540	3140	1600	0-11	0-12
Mar.....	490-16		-0-42	-1510	3380	1870	0-13	0-15
April.....	489-94	0-17		630	3910	4540	0-31	0-35
May.....	490-34	0-51		1830	4100	5930	0-41	0-47
June.....	490-85	0-38		1410	4270	5680	0-39	0-44
July.....	490-94	0-04		140	4130	4270	0-29	0-34
Aug.....	490-95		-0-15	-540	3830	3290	0-23	0-26
Sept.....	490-91	0-09		330	3170	3500	0-24	0-27
Oct.....	491-28	0-83		2980	3180	6160	0-43	0-49
Nov.....	492-41	1-14		4230	3750	7980	0-55	0-61
Dec.....	493-24	0-51		1830	3580	5410	0-37	0-43
Annual.....	491-05				3720	4330	0-30	4-07

STORAGE, OUTFLOW AND INFLOW—RAINY LAKE—Concluded

COMPILED BY CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Mean lake level for month	Change in level		Equivalent storage in feet	Actual outflow, average c.f.s.	Actual inflow, average c.f.s.	Inflow	
		Rise, feet	Fall, feet				Sec.-feet per square mile	Run-off depth in inches
1925								
Jan.....	493-56	0-15		540	3620	4160	0-287	0-331
Feb.....	493-68	0-10		400	3520	3920	0-270	0-281
Mar.....	493-68		-0-10	-360	4340	3980	0-274	0-316
April.....	494-17	1-34		4970	5020	9990	0-689	0-769
May.....	495-07	0-19		680	5980	6660	0-459	0-529
June.....	495-67	1-08		4010	6740	10750	0-741	0-827
July.....	496-50	0-38		1360	7240	8600	0-593	0-684
Aug.....	496-58		-0-05	-180	5980	4800	0-331	0-382
Sept.....	496-48		-0-32	-1190	5730	4540	0-313	0-349
Oct.....	495-91		-0-49	-1760	5880	4120	0-284	0-327
Nov.....	495-82	0-15		560	5900	6460	0-445	0-497
Dec.....	495-95	0	0	0	6060	6060	0-418	0-482
Annual.....	495-26				5500	6170	0-425	5-774
1926								
Jan.....	495-68		-0-48	-1720	5870	4150	0-286	0-330
Feb.....	495-05		-0-70	-2790	5950	3160	0-218	0-227
Mar.....	494-40		-0-82	-2950	6040	3090	0-213	0-246
April.....	493-63		-0-18	-670	5870	5200	0-359	0-401
May.....	493-81	0-35		1260	5220	6480	0-447	0-515
June.....	494-59	1-53		5680	5240	10920	0-753	0-840
July.....	496-18	0-93		3340	6720	10060	0-694	0-800
Aug.....	496-60	0-13		470	7800	8270	0-570	0-657
Sept.....	496-64		-0-09	-330	8180	7850	0-541	0-604
Oct.....	497-10	0-95		3410	11240	14650	1-010	1-164
Nov.....	497-40		-0-06	-220	14070	13850	0-955	1-066
Dec.....	497-42		-0-14	-500	11400	10900	0-751	0-866
Annual.....	495-71				7800	8220	0-566	7-716
1927								
Jan.....	497-13		-0-45	-1620	10530	8910	0-614	0-708
Feb.....	496-68		-0-25	-990	10070	9080	0-626	0-652
Mar.....	496-25		-0-65	-2330	11870	9540	0-658	0-759
April.....	496-13	1-30		4820	15730	20550	1-417	1-581
May.....	498-02	1-43		5140	34510	39650	2-734	3-152
June.....	498-44		-0-73	-2710	36620	33910	2-339	2-610
July.....	497-90		-0-32	-1150	32710	31560	2-176	2-509
Aug.....	497-58		-0-03	-110	14450	14340	0-989	1-140
Sept.....	497-43		-0-35	-1300	9460	8160	0-563	0-628
Oct.....	497-09		-0-44	-1580	8910	7330	0-505	0-582
Nov.....	496-45		-0-84	-3120	9280	6160	0-425	0-474
Dec.....	495-64		-0-47	-1690	8370	6680	0-461	0-532
Annual.....	497-06				16880	16320	1-126	15-327

RAINY LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOWS AND OUTFLOWS—NAMAKAN LAKE IN STATE OF NATURE  
10-DAY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1909										
Jan. 1-10						491.73			10630	10600
11-20						491.64	0.09		9440	10490
21-31						491.40	0.24		7650	10120
Feb. 1-10						491.14	0.26		6690	9560
11-20						490.86	0.28		5320	8970
21-28	487.85					490.56	0.30		4190	8340
Mar. 1-10	487.70	0.15		2140	3770	490.32			5120	7760
11-20	487.54	0.16		1810	3610	490.23	0.09		6370	7420
21-31	487.47	0.07		2780	3500	490.74	0.51		13000	7850
Apr. 1-10	487.47			3460	3460	491.44	0.70		16950	9170
11-20	487.40	0.07		2650	3440	491.95	0.51		16240	10530
21-30	487.51	0.11		4720	3450	492.22	0.27		14430	11410
May 1-10	487.98	0.47		8960	3730	492.26	0.04		12140	11750
11-20	489.38	1.40		20340	4810	492.19		0.07	10960	11720
21-31	490.44	1.06		17450	6720	491.96		0.23	9070	11390
June 1-10	491.02	0.58		14850	8380	491.56		0.40	6210	10670
11-20	491.71	0.69		17430	9770	491.33		0.23	7400	9970
21-30	492.42	0.71		19230	11340	490.93		0.40	4780	9260
July 1-10	492.53	0.11		13450	12260	490.58		0.35	4490	8430
11-20	492.44		0.09	11280	12290	490.20		0.38	3420	7660
21-31	492.26		0.18	10130	11990	489.85		0.35	3420	6950
Aug. 1-10	492.39	0.13		13340	11930	489.65		0.20	4250	6440
11-20	492.54	0.15		13870	12240	489.25		0.40	1450	5940
21-31	492.43		0.11	11190	12290	489.04		0.21	3320	5460
Sept. 1-10	492.23		0.20	9690	11950	488.84		0.20	2960	5170
11-20	491.97		0.26	8530	11430	488.50		0.34	1000	4800
21-30	491.70		0.27	7780	10820	488.27		0.23	1920	4450
Oct. 1-10	491.45		0.25	7410	10240	488.03		0.24	1530	4170
11-20	491.39		0.06	9200	9900	487.98		0.05	3420	4000
21-31	491.30		0.09	8800	9720	487.79		0.19	1920	3890
Nov. 1-10	491.29		0.01	9520	9630	487.57		0.22	1190	3670
11-20	491.31	0.02		9800	9630	487.54		0.03	3160	3540
21-30	491.43	0.12		11170	9790	487.32		0.22	960	3430
Dec. 1-10	491.71	0.28		13410	10240	487.10		0.22	790	3210
11-20	491.80	0.09		11640	10640	486.88		0.22	610	3040
21-31	491.73		0.07	9970	10670	486.74		0.14	1490	2890
1911										
Jan. 1-10	486.67		0.07	2080	2810	488.26		0.12	3060	4360
11-20	486.60		0.07	1970	2750	488.10		0.16	2390	4200
21-31	486.47		0.13	1380	2690	487.94		0.16	2390	4020
Feb. 1-10	486.39		0.08	1680	2610	487.86		0.08	3010	3900
11-20	486.31		0.08	1620	2540	487.77		0.09	2850	3810
21-28	486.25		0.06	1720	2490	487.58		0.19	1380	3670
Mar. 1-10	486.19		0.06	1800	2450	487.45		0.13	2090	3510
11-20	486.08		0.11	1150	2380	487.27		0.18	1350	3360
21-31	486.04		0.04	1890	2330	487.13		0.14	1820	3220
Apr. 1-10	486.26	0.22		4830	2400	487.10		0.03	2860	3150
11-20	486.80	0.54		8720	2680	487.43	0.33		6910	3270
21-30	487.38	0.58		9610	3120	488.04	0.61		10460	3720
May 1-10	487.77	0.39		7930	3570	488.91	0.87		14230	4550
11-20	488.22	0.45		8970	4000	489.73	0.82		14890	5730
21-31	488.80	0.58		10450	4600	490.60	0.87		15980	7200
June 1-10	489.49	0.69		13180	5480	491.35	0.75		17200	8900
11-20	490.03	0.54		12460	6480	491.78	0.43		15000	10220
21-30	490.26	0.23		9670	7160	492.06	0.28		14120	11030
July 1-10	490.28	0.02		7690	7420	492.03		0.03	10970	11290
11-20	490.28			7390	7430	492.02		0.01	11100	11250
21-31	491.35	0.07		8170	7500	491.99		0.03	10950	11230
Aug. 1-10	490.43	0.08		8540	7660	491.74		0.25	8110	10890
11-20	490.27		0.16	5770	7580	491.48		0.26	7380	10330
21-31	490.12		0.15	5750	7280	491.33		0.15	8390	9880
Sept. 1-10	489.90		0.22	4440	6910	491.17		0.16	7690	9520
11-20	489.71		0.19	4460	6530	490.88		0.29	5750	9010
21-30	489.54		0.17	4280	6210	490.82		0.06	8000	8640
Oct. 1-10	489.45		0.09	4960	6000	490.67		0.15	6740	8410
11-20	489.30		0.15	4180	5823	490.48		0.19	5930	8040
21-31	489.02		0.28	2660	5490	490.27		0.21	5450	7620
Nov. 1-10	488.88		0.14	3600	5190	490.09		0.18	5240	7240
11-20	488.79		0.09	4050	5030	489.83		0.26	3850	6720
21-30	488.69		0.10	3730	4890	489.66		0.17	4530	6420
Dec. 1-10	488.63		0.06	4090	4790	489.46		0.20	3870	6110
11-20	488.52		0.11	3470	4680	489.31		0.15	4210	5820
21-31	488.38		0.14	3070	4520	489.14		0.17	3870	5580

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

RAINY LAKE INVESTIGATION

RAINY LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOWS AND OUTFLOWS—NAMAKAN LAKE IN STATE OF NATURE—Continued

10-DAY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1913										
Jan. 1-10	489-03		0-11	4160	5370	489-09		0-10	4290	5460
11-20	488-86		0-17	3340	5190	488-95		0-14	3720	5280
21-31	488-71		0-15	3440	4950	488-85		0-10	4060	5120
Feb. 1-10	488-51		0-20	2480	4720	488-73		0-12	3670	4960
11-20	488-31		0-20	2270	4470	488-60		0-13	3320	4790
21-28	488-24		0-07	3400	4320	488-54		0-06	3870	4670
Mar. 1-10	488-07		0-17	2270	4180	488-37		0-17	2620	4520
11-20	487-96		0-11	2830	4020	488-22		0-15	2710	4340
21-31	487-85		0-11	2820	3900	488-10		0-12	2940	4180
April 1-10	487-77		0-08	2850	3800	487-97		0-13	2580	4040
11-20	488-18	0-41		8520	3980	488-14	0-17		5960	4070
21-30	488-67	0-49		9970	4490	488-55	0-41		8960	4390
May 1-10	489-22	0-55		11260	5170	489-30	0-75		13520	5140
11-20	489-89	0-67		13610	6110	490-13	0-83		15640	6390
21-31	491-03	1-14		19320	7810	491-18	1-05		18860	8230
June 1-10	492-02	0-99		21140	10130	492-06	0-88		20160	10340
11-20	492-47	0-45		16740	11750	492-71	0-65		19250	12060
21-30	492-58	0-11		13670	12400	493-08	0-37		17320	13230
July 1-10	492-70	0-12		13970	12650	493-25	0-17		16760	13830
11-20	492-77	0-07		13680	12870	493-28	0-03		14350	14060
21-31	492-75		0-02	12700	12920	493-08		0-20	11890	13870
Aug. 1-10	492-48		0-27	9620	12600	492-80		0-28	10260	13320
11-20	492-15		0-33	8190	11900	492-44		0-36	8570	12600
21-31	491-81		0-34	7760	11160	492-04		0-40	7680	11760
Sept. 1-10	491-45		0-36	6400	10370	491-74		0-30	7630	10960
11-20	491-01		0-44	4640	9470	491-58		0-16	8650	10440
21-30	490-68		0-33	4930	8620	491-41		0-17	8130	10060
Oct. 1-10	490-58		0-10	7050	8170	491-23		0-18	7730	9680
11-20	490-42		0-16	6060	7890	491-02		0-21	6940	9260
21-31	490-09		0-33	4060	7400	490-86		0-16	7190	8840
Nov. 1-10	489-99		0-10	5840	6970	490-62		0-24	5800	8410
11-20	489-81		0-18	4730	6710	490-40		0-22	5530	7910
21-30	489-75		0-06	5830	6490	490-19		0-21	5170	7480
Dec. 1-10	489-54		0-21	3960	6250	490-07		0-12	5820	7140
11-20	489-44		0-10	4920	6000	489-89		0-18	4870	6850
21-31	489-19		0-25	3220	5730	489-70		0-19	4630	6530
1915										
Jan. 1-10	489-52		0-18	4170	6200	490-59		0-04	7740	8130
11-20	489-38		0-14	4330	5940	490-56		0-03	7680	8040
21-31	489-18		0-20	3660	5670	490-50		0-06	7300	7950
Feb. 1-10	488-99		0-19	3260	5370	490-42		0-08	6940	7810
11-20	488-84		0-15	3520	5140	490-31		0-11	6450	7620
21-28	488-72		0-12	3260	4950	490-21		0-10	6150	7400
Mar. 1-10	488-56		0-16	3020	4760	490-06		0-15	5430	7140
11-20	488-39		0-17	2710	4550	489-96		0-10	5780	6910
21-31	488-21		0-18	2490	4340	489-87		0-09	5800	6740
April 1-10	488-18		0-03	3940	4230	489-76		0-11	5320	6540
11-20	488-27	0-09		5220	4250	490-81	1-05		19130	7430
21-30	488-39	0-12		5720	4380	492-85	2-04		33490	10820
May 1-10	488-59	0-20		6840	4570	494-74	1-89		36380	15300
11-20	488-91	0-32		8470	4910	496-52	1-78		39390	19600
21-31	489-20	0-29		8240	5330	498-14	1-62		40040	23680
June 1-10	489-63	0-43		10730	5890	499-16	1-02		38080	26730
11-20	490-69	1-06		18970	7200	499-55	0-39		32880	28550
21-30	491-82	1-13		22110	9540	499-57	0-02		29200	29030
July 1-10	492-73	0-91		21940	11840	499-25		0-32	25060	28670
11-20	493-28	0-55		19610	13460	498-56		0-69	19790	27470
21-31	493-54	0-26		17040	14400	497-58		0-98	15520	25460
Aug. 1-10	493-40		0-14	13020	14540	496-62		0-96	12480	23130
11-20	493-06		0-34	10210	13990	495-71		0-91	10730	20870
21-31	492-55		0-51	7910	13010	494-82		0-89	9700	18720
Sept. 1-20	492-04		0-51	6180	11880	494-26		0-56	10780	17030
11-20	491-59		0-45	5730	10780	493-80		0-46	10730	15830
21-30	491-23		0-36	5870	9880	493-46		0-34	11130	14910
Oct. 1-10	490-95		0-28	6060	9170	493-09		0-37	9980	13400
11-20	490-75		0-20	6430	8640	492-88		0-21	11130	14140
21-31	490-53		0-22	5940	8190	492-66		0-22	10670	12940
Nov. 1-10	490-52		0-01	7880	7950	492-51		0-15	10860	12530
11-20	490-56	0-04		8450	7980	492-29		0-22	9670	12110
21-30	490-57	0-01		8100	8020	492-06		0-23	9090	11610
Dec. 1-10	490-61	0-04		8490	8080	491-81		0-25	8290	11070
11-20	490-63	0-02		8370	8150	491-57		0-24	7880	10510
21-31	490-63			8160	8170	491-28		0-29	7010	9920

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
 Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

RAINY LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOWS AND OUTFLOWS—NAMAKAN LAKE IN STATE OF NATURE—Continued  
10-DAY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	
	Lake level	Change in level				Lake level	Change in level				
		Rise, feet	Fall, feet				Rise, feet	Fall, feet			
1917						1918					
Jan. 1-10	491-03		0-25	6550	9320	488-86		0-10	4010	5130	
11-20	490-74		0-29	5470	8710	488-73		0-13	3570	4980	
21-31	490-42		0-32	4830	8060	488-61		0-12	3570	4800	
Feb. 1-10	490-17		0-25	4730	7480	488-45		0-16	2810	4620	
11-20	489-97		0-20	4790	7020	488-31		0-14	2930	4440	
21-28	489-81		0-16	4440	6670	488-20		0-11	2800	4290	
Mar. 1-10	489-63		0-18	4420	6390	488-05		0-15	2520	4140	
11-20	489-45		0-18	4120	6080	487-86		0-19	1810	3950	
21-31	489-25		0-20	3800	5780	487-84		0-02	3600	3840	
April 1-10	489-04		0-21	3170	5470	487-89	0-05		4450	3860	
11-20	489-12	0-08		6240	5370	487-93	0-04		4390	3910	
21-30	489-43	0-31		9100	5670	488-17	0-24		6780	4060	
May 1-10	489-79	0-36		10190	6200	488-62	0-45		9450	4460	
11-20	490-07	0-28		9890	6760	489-13	0-51		10730	5070	
21-31	490-22	0-15		8640	7160	489-76	0-63		12250	5920	
June 1-10	490-28	0-06		7990	7380	490-39	0-63		14050	7040	
11-20	490-29	0-01		7520	7430	490-86	0-47		13420	8150	
21-30	490-36	0-07		8320	7540	491-23	0-37		13240	9080	
July 1-10	490-39	0-03		7970	7640	491-38	0-15		11360	9630	
11-20	490-45	0-06		8390	7720	491-40	0-02		10080	9830	
21-31	490-40		0-05	7230	7720	491-39		0-01	9760	9860	
Aug. 1-10	490-26		0-14	5960	7540	491-25		0-14	8090	9680	
11-20	490-09		0-17	5400	7240	491-08		0-17	7400	9320	
21-31	489-94		0-15	5350	6910	490-77		0-31	5670	8790	
Sept. 1-10	489-77		0-17	4740	6630	490-42		0-35	4210	8110	
11-20	489-64		0-13	4950	6370	490-06		0-36	3320	7360	
21-30	489-49		0-15	4430	6100	489-73		0-33	3000	6690	
Oct. 1-10	489-31		0-18	3910	5860	489-43		0-30	2840	6150	
11-20	489-26		0-05	5100	5670	489-19		0-24	3020	5720	
21-31	489-24		0-02	5480	5930	488-97		0-22	3150	5370	
Nov. 1-10	489-25		0-01	5540	5610	488-92		0-05	4680	5190	
11-20	489-19		0-04	5110	5570	488-96	0-04		5660	5170	
21-30	489-16		0-03	5200	5520	488-99	0-03		5580	5230	
Dec. 1-10	489-10		0-06	4790	5450	489-06	0-07		6050	5280	
11-20	489-03		0-07	4560	5340	489-10	0-04		5770	5370	
21-31	488-96		0-07	4510	5250	489-09		0-01	5300	5400	
1919						1920					
Jan. 1-10	489-05		0-04	4900	5360	489-26		0-14	4160	5780	
11-20	488-99		0-06	4600	5280	489-15		0-11	4320	5590	
21-31	488-89		0-10	4140	5170	489-04		0-11	4230	5390	
Feb. 1-10	488-75		0-14	3400	5000	488-89		0-15	3530	5200	
11-20	488-62		0-13	3350	4810	488-76		0-13	3570	5020	
21-28	488-56		0-06	3820	4700	488-64		0-12	3290	4840	
Mar. 1-10	488-40		0-16	2750	4560	488-47		0-17	2750	4660	
11-20	488-27		0-13	2970	4390	488-33		0-14	2900	4460	
21-31	488-24		0-03	3990	4290	488-48	0-14		5990	4470	
April 1-10	488-45	0-21		6730	4400	488-63	0-15		6290	4650	
11-20	488-89	0-44		9730	4800	488-95	0-32		8550	4960	
21-30	489-48	0-59		12090	5520	489-68	0-73		13840	5720	
May 1-10	490-21	0-73		14690	6600	490-32	0-64		14060	6890	
11-20	490-90	0-69		15700	8020	490-88	0-56		14360	8110	
21-31	491-37	0-47		14080	9280	491-80	0-92		19070	9720	
June 1-10	491-72	0-35		14040	10170	492-80	1-00		23040	11880	
11-20	491-99	0-27		13870	10880	493-56	0-76		22370	13870	
21-30	492-04	0-05		11780	11210	494-01	0-45		20230	15250	
July 1-10	492-70	0-66		19410	12040	494-28	0-27		19100	16080	
11-20	493-00	0-30		16400	13120	494-29	0-01		16560	16430	
21-31	492-92		0-08	12550	13370	494-13		0-16	14640	16240	
Aug. 1-10	492-69		0-23	10480	13030	493-78		0-35	11720	15650	
11-20	492-57		0-12	11230	12620	493-36		0-42	10100	14770	
21-31	492-20		0-37	8320	12060	492-81		0-55	8060	13640	
Sept. 1-10	491-75		0-45	6190	11160	492-30		0-51	6850	12470	
11-20	491-39		0-36	6280	10240	491-81		0-49	5930	11340	
21-30	491-01		0-38	5200	9410	491-32		0-49	4730	10220	
Oct. 1-10	490-71		0-30	5320	8660	490-83		0-49	3630	9120	
11-20	490-35		0-36	3910	7950	490-46		0-37	4050	8190	
21-31	490-10		0-25	4800	7320	490-01		0-45	2770	7340	
Nov. 1-10	489-92		0-18	4890	6910	489-59		0-42	1870	6530	
11-20	489-83		0-09	5680	6670	489-27		0-32	2290	5900	
21-30	489-75		0-08	5630	6510	488-98		0-29	2240	5430	
Dec. 1-10	489-64		0-11	5120	6350	488-71		0-27	2060	5030	
11-20	489-54		0-10	5100	6160	488-46		0-25	1930	4690	
21-31	489-40		0-14	4570	5970	488-28		0-18	2620	4420	

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

RAINY LAKE INVESTIGATION

RAINY LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOWS AND OUTFLOWS—NAMAKAN LAKE IN STATE OF NATURE—Continued  
10-DAY MEANS

Date	Computed natural levels			Com-puted natural inflow, average c.f.s.	Com-puted natural outflow, average c.f.s.	Computed natural levels			Com-puted natural inflow, average c.f.s.	Com-puted natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1921										
Jan. 1-10	488-11		0-17	2390	4230	488-20		0-15	2590	4300
11-20	487-93		0-18	2070	4020	488-06		0-14	2630	4140
21-31	487-77		0-16	2210	3840	487-93		0-13	2630	3990
Feb. 1-10	487-63		0-14	2170	3690	487-81		0-12	2560	3860
11-20	487-52		0-11	2360	3560	487-73		0-08	2880	3760
21-28	487-42		0-10	2040	3470	487-62		0-11	2140	3670
Mar. 1-10	487-30		0-12	2050	3360	487-53		0-09	2610	3570
11-20	487-24		0-06	2570	3280	487-43		0-10	2380	3470
21-31	487-15		0-09	2290	3210	487-38		0-05	2920	3410
April 1-10	487-68	0-53		9350	3420	487-58	0-20		5690	3470
11-20	488-22	0-54		9970	3950	488-44	0-86		13540	4010
21-30	488-76	0-54		10630	4570	489-36	0-92		15390	5120
May 1-10	489-37	0-61		12200	5360	490-27	0-91		16640	6540
11-20	490-04	0-67		13840	6370	491-26	0-99		19480	8470
21-31	490-74	0-70		14700	7660	492-03	0-77		18180	10400
June 1-10	491-35	0-61		15890	9080	492-50	0-47		16970	11790
11-20	491-67	0-32		13620	10100	492-73	0-23		15140	12580
21-30	491-78	0-11		11770	10580	492-73			12800	12850
July 1-10	491-75		0-03	10360	10690	492-52		0-21	10260	12600
11-20	491-69		0-06	9910	10580	492-24		0-28	8900	12060
21-31	491-48		0-21	8160	10260	491-95		0-29	8520	11430
Aug. 1-10	491-21		0-27	6720	9720	491-66		0-29	7590	10780
11-20	490-90		0-31	5620	9880	491-36		0-30	6730	10100
21-31	490-66		0-24	6010	8490	490-99		0-37	5670	9370
Sept. 1-10	490-46		0-20	5790	8020	490-66		0-33	4900	8580
11-20	490-35		0-11	6440	7680	490-32		0-34	4120	7870
21-30	490-16		0-19	5300	7300	489-94		0-38	2920	7140
Oct. 1-10	489-91		0-25	4220	6970	489-56		0-38	2160	6440
11-20	489-74		0-17	4740	6580	489-21		0-35	1890	5820
21-31	489-53		0-21	4100	6230	488-89		0-32	2060	5330
Nov. 1-10	489-24		0-29	2630	5840	488-75		0-14	3430	5000
11-20	489-01		0-23	2910	5450	488-54		0-21	2490	4780
21-30	488-84		0-17	3270	5140	488-38		0-16	2760	4540
Dec. 1-10	488-66		0-18	2910	4910	488-23		0-15	2710	4350
11-20	488-49		0-17	2740	4670	488-12		0-11	3010	4200
21-31	488-35		0-14	3100	4490	487-98		0-14	2610	4060
1923										
Jan. 1-10	487-85		0-13	2440	3910	487-11		0-15	1600	3210
11-20	487-77		0-08	2870	3800	486-95		0-16	1290	3070
21-31	487-63		0-14	2310	3690	486-81		0-14	1530	2940
Feb. 1-10	487-49		0-14	1950	3550	486-68		0-13	1400	2840
11-20	487-38		0-11	2230	3440	486-57		0-11	1560	2750
21-28	487-26		0-12	1620	3330	486-45		0-12	1180	2660
Mar. 1-10	487-15		0-11	1950	3220	486-37		0-08	1750	2590
11-20	487-01		0-14	1540	3110	486-26		0-11	1310	2520
21-31	486-91		0-10	1990	3010	486-17		0-09	1570	2440
April 1-10	486-81		0-10	1850	2930	486-15		0-02	2240	2400
11-20	487-07	0-26		5900	2990	486-23	0-08		3330	2420
21-30	488-27	1-20		17070	3660	486-43	0-20		4730	2530
May 1-10	489-42	1-15		17890	5050	486-58	0-15		4310	2660
11-20	490-20	0-78		15190	6540	486-84	0-26		5720	2810
21-31	490-73	0-53		13150	7810	487-12	0-28		5880	3030
June 1-10	490-90	0-17		10500	8580	487-43	0-31		6730	3280
11-20	490-96	0-06		9430	8820	487-74	0-31		6980	3570
21-30	491-01	0-05		9520	8950	488-00	0-26		6750	3860
July 1-10	490-94		0-07	8190	8930	488-16	0-16		5860	4090
11-20	490-79		0-15	7060	8690	488-21	0-05		4780	4210
21-31	490-57		0-22	6090	8280	488-32	0-11		5360	4290
Aug. 1-10	490-35		0-22	5320	7810	488-30		0-02	4100	4350
11-20	490-11		0-24	4690	7340	488-30			4370	4340
21-31	489-91		0-20	4870	6910	488-27		0-03	4000	4320
Sept. 1-10	489-69		0-22	4070	6530	488-23		0-04	3840	4280
11-20	489-45		0-24	3460	6130	488-22		0-01	4200	4280
21-30	489-23		0-22	3350	5760	488-24	0-02		4510	4290
Oct. 1-10	488-97		0-26	2490	5400	488-32	0-08		5190	4320
11-20	488-75		0-22	2580	5060	488-63	0-31		8040	4560
21-31	488-47		0-28	1860	4720	488-85	0-22		7100	4900
Nov. 1-10	488-19		0-28	1300	4380	489-01	0-16		6910	5160
11-20	487-98		0-21	1720	4090	489-14	0-13		6830	5370
21-30	487-81		0-17	1970	3890	489-17	0-03		5870	5490
Dec. 1-10	487-63		0-18	1710	3710	489-17			5500	5500
11-20	487-45		0-18	1580	3550	489-12		0-05	4960	5480
21-31	487-26		0-19	1410	3360	489-02		0-10	4390	5360

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.



RAINY LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOWS AND OUTFLOWS—NAMAKAN LAKE IN STATE OF NATURE—Concluded

10-DAY MEANS

Date	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Lake level	Change in level				Lake level	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
1925										
Jan. 1-10	488-93		0-09	4200	5210	488-05		0-10	3000	4110
11-20	488-83		0-10	4000	5090	487-95		0-10	2940	4000
21-31	488-68		0-15	3450	4920	487-84		0-11	2830	3900
Feb. 1-10	488-60		0-08	3870	4760	487-75		0-09	2830	3790
11-20	488-48		0-12	3350	4640	487-66		0-09	2710	3690
21-28	488-39		0-09	3230	4500	487-57		0-09	2390	3600
Mar. 1-10	488-32		0-07	3580	4400	487-50		0-07	2730	3520
11-20	488-26		0-06	3690	4330	487-43		0-07	2660	3460
21-31	488-24		0-02	4080	4280	487-38		0-05	2900	3410
April 1-10	488-55	0-31		7930	4460	487-31		0-07	2610	3360
11-20	488-93	0-38		9100	4890	487-47	0-16		5160	3390
21-30	489-46	0-53		11500	5550	487-75	0-28		6750	3600
May 1-10	489-81	0-35		10190	6250	487-98	0-23		6360	3850
11-20	490-14	0-33		10520	6850	488-16	0-18		6050	4080
21-31	490-41	0-27		10210	7430	488-62	0-46		9060	4450
June 1-10	490-93	0-52		14090	8260	489-03	0-41		9540	5000
11-20	491-38	0-45		14270	9300	489-66	0-63		12760	5760
21-30	491-67	0-29		13410	10150	490-48	0-82		16110	7020
July 1-10	491-84	0-17		12500	10640	491-19	0-71		16540	8620
11-20	491-78		0-06	10080	10780	491-72	0-53		15850	9970
21-31	491-60		0-18	8690	10510	491-99	0-27		13660	10890
Aug. 1-10	491-34		0-26	7160	10010	492-02	0-03		11520	11210
11-20	491-06		0-28	6270	9410	491-93		0-09	10150	11160
21-31	490-73		0-33	5400	8750	491-72		0-21	8630	10800
Sept. 1-10	490-45		0-28	4980	8080	491-55		0-17	8470	10370
11-20	490-22		0-23	4930	7540	491-37		0-18	7950	9990
21-30	489-90		0-32	3420	7000	491-22		0-15	7960	9630
Oct. 1-10	489-61		0-29	3270	6460	491-39	0-17		11480	9630
11-20	489-37		0-24	3390	6000	491-68	0-29		13370	10150
21-31	489-11		0-26	2950	5610	492-01	0-33		14210	10870
Nov. 1-10	488-96		0-15	3690	5310	492-28	0-27		14510	11540
11-20	488-78		0-18	3030	5070	492-43	0-15		13620	11990
21-30	488-58		0-20	2580	4810	492-51	0-08		13110	12260
Dec. 1-10	488-45		0-13	3210	4610	492-52	0-01		12470	12350
11-20	488-30		0-15	2700	4420	492-42		0-10	11150	12260
21-31	488-15		0-15	2700	4250	492-23		0-19	9980	11930
1927										
Jan. 1-10						492-06		0-17	9680	11540
11-20						491-87		0-19	9000	11120
21-31						491-59		0-28	7740	10600
Feb. 1-10						491-38		0-21	7670	10030
11-20						491-13		0-25	6740	9520
21-28						490-90		0-23	5790	8990
Mar. 1-10						490-66		0-24	5820	8490
11-20						490-47		0-19	5910	8040
21-31						490-36		0-11	6630	7720
April 1-10						490-50	0-14		9290	7740
11-20						491-69	1-19		22490	9190
21-30						493-42	1-73		31660	12470
May 1-10						495-43	2-01		39100	16730
11-20						497-25	1-82		41580	21310
21-31						498-74	1-49		40390	25290
June 1-10						499-52	0-78		36680	28000
11-20						499-91	0-39		33730	29390
21-30						500-23	0-32		33780	30260
July 1-10						500-51	0-28		34050	30980
11-30						500-82	0-31		35200	31700
21-31						500-52		0-30	28610	31700
Aug. 1-10						499-66		0-86	20660	30280
11-20						498-61		1-05	16320	28000
21-31						497-41		1-20	13180	25310
Sept. 1-10						496-89		1-02	11300	22650
11-20						495-28		1-11	7770	20110
21-30						494-37		0-91	7520	17670
Oct. 1-10						493-61		0-76	7300	15740
11-20						492-92		0-69	6370	14060
21-31						492-27		0-65	5910	12530
Nov. 1-10						491-77		0-50	5740	11250
11-20						491-32		0-45	5140	10170
21-30						490-91		0-41	4620	9210
Dec. 1-10						490-55		0-36	4360	8380
11-20						490-28		0-27	4670	7700
21-31						489-97		0-31	4030	7140

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
 Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

RAINY LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS,  
INFLOW AND OUTFLOW—NAMAKAN LAKE IN STATE OF NATURE  
MONTHLY MEANS

Date	Computed natural levels				Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Mean for month	Change in level		Mean for month			Change in level				
		Rise, feet	Fall, feet				Rise, feet	Fall, feet			
1909											
Jan.....	488-68		0-60	2760	4910	491-64		0-33	9190	10390	
Feb.....	488-07		0-50	2110	4100	491-02		0-84	5670	9000	
Mar.....	487-63		0-38	2260	3620	490-40	0-18		8320	7680	
Apr.....	487-45	0-04		3610	3450	491-63	1-48		15870	10370	
May.....	488-92	2-93		15640	5140	492-20	0-27		10670	11610	
June.....	491-38	1-98		17170	9830	491-45		1-03	6130	9970	
July.....	492-43		0-16	11570	12170	490-39		1-08	3770	7660	
Aug.....	492-43	0-17		12770	12160	489-45		0-81	3020	5930	
Sept.....	492-08		0-73	8670	11400	488-67		0-77	1960	4810	
Oct.....	491-44		0-41	8480	9950	488-02		0-48	2280	4020	
Nov.....	491-31	0-13		10160	9680	487-55		0-48	1770	3550	
Dec.....	491-69	0-30		11620	10520	487-00		0-58	980	3040	
1911											
Jan.....	486-63		0-27	1800	2750	487-17		0-44	2610	4190	
Feb.....	486-36		0-22	1670	2550	487-81		0-36	2450	3800	
Mar.....	486-14		0-21	1620	2390	487-35		0-45	1760	3360	
Apr.....	486-60	1-34		7720	2730	487-38	0-91		6740	3380	
May.....	488-06	1-42		9160	4070	489-14	2-56		15060	5870	
June.....	489-71	1-46		11770	6370	491-49	1-46		15440	10050	
July.....	490-29	0-09		7760	7450	492-02		1-07	11010	11260	
Aug.....	490-31		0-23	6660	7500	491-62		0-66	7970	10350	
Sept.....	489-81		0-58	4390	6550	491-04		0-51	7150	9060	
Oct.....	489-34		0-52	3890	5760	490-55		0-55	6020	8010	
Nov.....	488-85		0-33	3790	5040	489-94		0-61	4540	6790	
Dec.....	488-56		0-31	3530	4660	489-38		0-52	3980	5830	
1913											
Jan.....	488-93		0-43	3640	5160	489-02		0-34	4020	5280	
Feb.....	488-45		0-47	2670	4520	488-68		0-31	3600	4820	
Mar.....	488-03		0-39	2650	4030	488-30		0-44	2760	4340	
Apr.....	488-08	0-82		7110	4090	488-15	0-45		5830	4170	
May.....	489-76	2-36		14880	6410	489-86	2-63		16100	6640	
June.....	492-10	1-55		17180	11430	492-30	1-90		18910	11830	
July.....	492-72	0-17		13430	12820	493-20			13930	13920	
Aug.....	492-29		0-94	8500	11860	492-59		1-04	8800	12530	
Sept.....	491-24		1-13	5320	9490	491-68		0-63	8140	10490	
Oct.....	490-46		0-59	5670	7810	491-13		0-55	7280	9250	
Nov.....	489-91		0-34	5470	6720	490-52		0-67	5500	7930	
Dec.....	489-48		0-56	4010	5990	489-97		0-49	5090	6830	
1914											
Jan.....	490-45		0-52	4050	5930	490-57		0-13	7560	8040	
Feb.....	489-94		0-46	3350	5170	490-37		0-29	6530	7620	
Mar.....	488-46		0-51	2730	4540	490-02		0-34	5670	6920	
Apr.....	488-25	0-18		4960	4290	490-67	2-98		19310	8260	
May.....	488-78	0-81		7860	4950	495-66	5-29		38650	19660	
June.....	490-33	2-62		17270	7540	499-17	1-43		33390	28100	
July.....	492-92	1-72		19450	13270	498-77		1-99	19980	27140	
Aug.....	493-16		0-99	10300	13820	496-15		2-76	10930	20840	
Sept.....	491-84		1-32	5930	10850	494-07		1-36	10880	15920	
Oct.....	490-85		0-70	6140	8650	493-01		0-80	10600	13480	
Nov.....	490-54	0-04		8140	7980	492-39		0-60	9870	12080	
Dec.....	490-61	0-06		8330	8130	491-68		0-78	7700	10480	
1915											
Jan.....	490-86		0-86	5590	8680	488-79		0-35	3710	4960	
Feb.....	490-10		0-61	4670	7080	488-40		0-41	2850	4460	
Mar.....	489-53		0-56	4100	6070	487-07		0-36	2670	3970	
Apr.....	489-17	0-18		6170	5500	487-94	0-33		5210	3940	
May.....	489-91	0-79		9540	6720	488-94	1-59		10860	5180	
June.....	490-29	0-14		7940	7450	490-59	1-47		13570	8090	
July.....	490-40	0-04		7840	7690	491-37	0-16		10380	9780	
Aug.....	490-17		0-46	5560	7220	491-13		0-62	7010	9250	
Sept.....	489-71		0-45	4710	6370	490-26		1-04	3510	7390	
Oct.....	489-31		0-25	4850	5720	489-32		0-76	3010	5730	
Nov.....	489-21		0-08	5280	5570	488-96		0-02	5310	5200	
Dec.....	489-06		0-20	4620	5340	489-07		0-10	5690	5350	
1917											
Jan.....	490-86		0-86	5590	8680	488-79		0-35	3710	4960	
Feb.....	490-10		0-61	4670	7080	488-40		0-41	2850	4460	
Mar.....	489-53		0-56	4100	6070	487-07		0-36	2670	3970	
Apr.....	489-17	0-18		6170	5500	487-94	0-33		5210	3940	
May.....	489-91	0-79		9540	6720	488-94	1-59		10860	5180	
June.....	490-29	0-14		7940	7450	490-59	1-47		13570	8090	
July.....	490-40	0-04		7840	7690	491-37	0-16		10380	9780	
Aug.....	490-17		0-46	5560	7220	491-13		0-62	7010	9250	
Sept.....	489-71		0-45	4710	6370	490-26		1-04	3510	7390	
Oct.....	489-31		0-25	4850	5720	489-32		0-76	3010	5730	
Nov.....	489-21		0-08	5280	5570	488-96		0-02	5310	5200	
Dec.....	489-06		0-20	4620	5340	489-07		0-10	5690	5350	

RAINY LAKE IN STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LAKE LEVELS, INFLOW AND OUTFLOW—NAMAKAN LAKE IN STATE OF NATURE—Concluded

MONTHLY MEANS

Date	Computed natural levels			Com-puted natural inflow, average c.f.s.	Com-puted natural outflow, average c.f.s.	Computed natural levels			Com-puted natural inflow, average c.f.s.	Com-puted natural outflow, average c.f.s.
	Mean for month	Change in level				Mean for month	Change in level			
		Rise, feet	Fall, feet				Rise, feet	Fall, feet		
Date	1919					1920				
Jan.....	489-01	.....	0-20	4530	5270	489-20	.....	0-36	4240	5560
Feb.....	488-71	.....	0-33	3500	4850	488-84	.....	0-40	3470	5030
Mar.....	488-36	.....	0-32	3260	4410	488-45	.....	0-16	3950	4530
April.....	488-75	1-24	.....	9520	4910	488-90	1-20	.....	9560	5110
May.....	490-55	1-89	.....	14800	8010	490-69	2-12	.....	15930	8290
June.....	491-80	0-67	.....	13230	10750	493-09	2-21	.....	21880	13670
July.....	492-74	0-88	.....	16010	12860	494-21	0-12	.....	16700	16250
Aug.....	492-60	0-72	.....	9960	12550	493-52	1-32	.....	9900	14650
Sept.....	491-58	1-19	.....	5890	10270	492-06	1-49	.....	5840	11340
Oct.....	490-53	0-91	.....	4680	7960	490-64	1-31	.....	3460	8190
Nov.....	489-90	0-35	.....	5400	6700	489-46	1-03	.....	2130	5950
Dec.....	489-58	0-35	.....	4920	6150	488-60	0-70	.....	2220	4700
Date	1921					1922				
Jan.....	488-01	.....	0-51	2220	4020	488-12	.....	0-42	2620	4140
Feb.....	487-59	.....	0-35	2200	3580	487-78	.....	0-31	2550	3770
Mar.....	487-27	.....	0-27	2300	3280	487-49	.....	0-24	2650	3480
April.....	487-98	1-61	.....	9980	3980	488-18	1-98	.....	11540	4200
May.....	489-79	1-98	.....	13620	6500	490-80	2-67	.....	18100	8530
June.....	491-43	1-04	.....	13760	9920	492-54	0-70	.....	14970	12410
July.....	491-69	.....	0-30	9430	10550	492-35	.....	0-78	9200	12010
Aug.....	491-05	.....	0-82	6110	9080	491-49	.....	0-93	6630	10060
Sept.....	490-40	.....	0-50	5840	7670	490-49	.....	1-05	3980	7860
Oct.....	489-83	.....	0-63	4340	6889	490-40	.....	1-05	2040	5850
Nov.....	489-15	.....	0-69	2940	5480	488-65	.....	0-50	2890	4770
Dec.....	488-57	.....	0-49	2920	4680	488-18	.....	0-41	2770	4200
Date	1923					1924				
Jan.....	487-81	.....	0-35	2530	3800	487-03	.....	0-45	1480	3070
Feb.....	487-45	.....	0-37	1960	3450	486-63	.....	0-36	1390	2750
Mar.....	487-07	.....	0-35	1830	3110	486-30	.....	0-28	1540	2510
April.....	487-17	1-36	.....	8270	3190	486-23	0-26	.....	3430	2450
May.....	489-79	2-46	.....	15340	6510	486-75	0-69	.....	5320	2840
June.....	490-91	0-28	.....	9820	8780	487-58	0-88	.....	6820	3570
July.....	490-84	.....	0-44	7080	8620	488-18	0-32	.....	5330	4200
Aug.....	490-23	.....	0-66	4960	7340	488-30	.....	0-05	4150	4340
Sept.....	489-58	.....	0-68	3630	6140	488-24	.....	0-03	4180	4270
Oct.....	488-85	.....	0-76	2300	5050	488-51	0-61	.....	6790	4600
Nov.....	488-11	.....	0-66	1660	4120	489-06	0-32	.....	6540	5340
Dec.....	487-54	.....	0-55	1560	3530	489-13	.....	0-15	4930	5440
Date	1925					1926				
Jan.....	488-87	.....	0-34	3870	5070	488-00	.....	0-31	2920	4000
Feb.....	488-54	.....	0-29	3500	4640	487-71	.....	0-27	2660	3700
Mar.....	488-29	.....	0-15	3790	4330	487-46	.....	0-19	2770	3480
April.....	488-80	1-22	.....	9510	4970	487-45	0-37	.....	4840	3450
May.....	489-98	0-95	.....	10300	6860	488-13	0-87	.....	7220	4140
June.....	491-12	1-26	.....	13920	9240	489-45	1-86	.....	12800	5930
July.....	491-75	.....	0-07	10370	10640	491-40	1-51	.....	15300	9860
Aug.....	491-18	.....	0-87	6250	9370	491-93	.....	0-27	10050	11050
Sept.....	490-33	.....	0-83	4440	7540	491-46	.....	0-50	8130	10000
Oct.....	489-50	.....	0-79	3200	6010	491-57	0-79	.....	13060	10240
Nov.....	488-86	.....	0-53	3100	5060	492-33	0-50	.....	13750	11930
Dec.....	488-37	.....	0-43	2860	4420	492-43	.....	0-28	11160	12170
Date						1927				
Jan.....						491-94	.....	0-64	8770	11070
Feb.....						491-26	.....	0-69	6800	9550
Mar.....						490-58	.....	0-54	6140	8070
April.....						491-37	3-06	.....	21150	9800
May.....						496-31	5-32	.....	40360	21240
June.....						493-64	1-49	.....	34730	29220
July.....						500-57	0-29	.....	32490	31470
Aug.....						499-03	.....	3-11	16610	27780
Sept.....						495-85	.....	3-04	8860	20140
Oct.....						493-26	.....	2-10	6510	14060
Nov.....						491-56	.....	1-36	5170	10210
Dec.....						490-42	.....	0-94	4340	7720

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611·61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1.									493-17	492-89	492-54	492-04
2.									493-12	492-89	492-37	492-03
3.									493-08	492-92	492-44	492-10
4.									493-16	492-80	492-51	492-02
5.									493-17	492-82	492-48	492-00
6.												
7.									493-13	492-82	492-42	491-97
8.									493-04	492-83	492-34	491-96
9.									492-98	492-86	492-45	491-91
10.									493-01	492-87	492-41	491-86
11.									493-02	492-88	492-23	492-09
12.												
13.									493-00	492-80	492-50	491-87
14.									492-98	492-81	492-25	491-86
15.									492-98	492-80	492-35	491-86
16.									493-26	492-92	492-81	492-33
17.									493-22	492-84	492-86	492-31
18.									493-22	492-94	492-88	492-29
19.									493-22	493-02	492-78	492-27
20.									493-13	492-79	492-79	492-22
21.									493-16	492-90	492-72	492-55
22.									493-37	492-86	492-69	492-26
23.												
24.									493-20	492-86	492-70	492-24
25.									493-15	492-93	492-79	492-22
26.									493-10	492-89	492-69	492-17
27.									493-05	492-97	492-68	492-17
28.									493-05	492-87	492-63	492-10
29.												
30.									493-15	492-88	492-60	492-28
31.									493-31	492-84	492-54	492-20
1912												
1.	491-66	490-68	489-93	488-87	489-25	492-34	495-08	495-77	495-98	495-91	495-64	495-07
2.	491-49	490-52	489-90	488-71	489-35	492-61	495-12	495-74	495-94	495-89	495-64	495-07
3.	491-46	490-51	490-24	488-68	489-44	492-36	495-18	495-71	495-93	495-88	495-69	495-06
4.	491-43	490-90	489-86	488-66	489-47	492-63	495-26	495-80	495-88	495-90	495-62	495-02
5.	491-41	490-56	489-79	488-75	490-20	492-71	495-29	495-75	495-84	495-90	495-65	494-90
6.	491-40	490-53	489-76	488-75	489-78	492-87	495-30	495-76	495-71	495-89	495-56	494-94
7.	491-65	490-49	489-67	489-05	489-63	492-96	495-43	495-74	495-71	495-82	495-52	494-94
8.	491-44	490-48	489-66	489-22	489-74	493-10	495-43	495-76	495-96	495-90	495-40	494-95
9.	491-28	490-49	489-65	488-48	489-84	493-26	495-39	495-74	495-88	495-90	495-56	494-90
10.	491-27	490-54	489-99	488-44	489-95	493-27	495-42	495-71	495-87	495-90	495-58	494-85
11.	491-21	490-77	489-62	488-45	490-06	493-42	495-46	495-76	495-80	495-91	495-57	494-77
12.	491-11	490-41	489-53	488-59	490-75	493-51	495-48	495-70	495-83	495-87	495-56	494-80
13.	491-06	490-44	489-49	488-50	490-32	493-65	495-53	495-71	495-85	495-91	495-51	494-78
14.	491-60	490-38	489-46	489-24	490-36	493-76	495-65	495-75	495-82	495-85	495-46	494-85
15.	491-16	490-32	489-46	488-73	490-47	493-85	495-57	495-76	495-92	495-89	495-43	494-79
16.	491-08	490-32	489-38	488-65	490-59	493-94	495-53	495-82	495-86	495-85	495-36	494-77
17.	491-01	490-32	489-77	488-72	490-80	493-95	495-52	495-83	495-82	495-87	495-41	494-78
18.	490-97	490-55	489-46	488-74	490-90	494-06	495-63	495-82	495-81	495-78	495-36	494-69
19.	490-95	490-28	489-42	488-74	491-32	494-17	495-68	495-77	495-82	495-80	495-34	494-64
20.	490-91	490-24	489-25	488-74	491-05	494-25	495-68	495-75	495-84	495-85	495-30	494-61
21.	491-28	490-17	489-10	489-41	491-16	494-31	495-71	495-69	495-83	495-82	495-23	494-55
22.	490-87	490-19	489-17	488-93	491-30	494-35	495-76	495-77	495-74	495-77	495-19	494-62
23.	490-77	490-15	489-14	488-84	491-25	494-48	495-76	495-83	495-83	495-78	495-22	494-58
24.	490-77	490-14	489-65	488-85	491-33	494-57	495-66	495-81	495-90	495-75	495-29	494-56
25.	490-77	490-41	489-11	488-66	491-49	494-58	495-71	495-90	495-80	495-72	495-20	494-65
26.	490-74	490-11	489-02	488-70	491-99	494-68	495-74	495-82	495-74	495-72	495-18	494-65
27.	490-78	490-10	488-95	488-75	491-82	494-72	495-73	495-87	495-87	495-77	495-15	494-51
28.	491-08	489-99	488-89	489-67	492-02	494-73	495-82	495-92	495-90	495-81	495-10	494-48
29.	490-80	489-95	488-85	489-15	491-99	494-90	495-74	495-91	495-89	495-71	495-06	494-52
30.	490-77	490-00	488-92	489-09	492-29	495-07	495-76	495-91	495-88	495-67	495-15	494-48
31.	490-71	489-36	489-00	489-00	492-19	495-00	495-76	495-94	495-80	495-67	495-00	494-36

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE  
GAUGE—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	494.36	493.35	492.25	491.02	491.19	494.00	496.56	496.84	496.91	496.45	496.28	496.10
2	494.33	493.53	492.42	491.12	491.26	494.01	496.55	496.75	496.85	496.45	496.27	496.05
3	494.27	493.36	492.11	491.14	491.31	494.10	496.36	496.90	496.85	496.45	496.26	496.04
4	494.25	493.18	492.12	490.92	491.55	494.23	496.77	496.77	496.85	496.43	496.30	496.04
5	494.34	493.16	492.01	490.98	491.47	494.48	496.64	496.76	496.84	496.42	496.28	496.06
6	494.22	493.15	492.02	491.19	491.55	494.73	496.67	496.77	496.81	496.46	496.28	495.98
7	494.21	493.09	492.02	490.98	491.61	494.82	496.75	496.81	496.83	496.47	496.29	496.04
8	494.16	493.04	491.90	490.75	491.74	494.98	496.75	496.73	496.81	496.51	496.27	495.97
9	494.12	493.19	492.17	490.70	491.71	495.04	496.84	496.80	496.79	496.55	496.22	495.95
10	494.07	493.02	491.83	490.66	491.72	495.10	496.65	496.81	496.79	496.53	496.22	495.95
11	494.06	492.97	491.82	490.66	491.80	495.25	496.76	496.84	496.74	496.49	496.23	495.92
12	494.11	492.88	491.75	490.64	491.75	495.35	496.78	496.75	496.67	496.46	496.20	495.89
13	493.90	492.87	491.73	491.03	491.92	495.52	496.75	496.78	496.75	496.42	496.18	495.88
14	493.99	492.82	491.70	490.71	492.00	495.67	496.70	496.88	496.74	496.39	496.16	495.92
15	493.94	492.77	491.69	490.70	492.05	495.80	496.65	496.96	496.69	496.39	496.16	495.88
16	493.92	493.04	491.93	490.72	492.15	495.87	496.70	496.84	496.72	496.36	496.21	495.83
17	493.85	492.83	491.63	490.77	492.20	495.92	496.71	496.84	496.65	496.32	496.22	495.86
18	493.84	492.75	491.55	490.78	492.38	496.00	496.68	496.85	496.65	496.30	496.21	495.77
19	493.80	492.68	491.51	490.85	492.45	496.06	496.71	496.81	496.60	496.31	496.22	495.76
20	493.77	492.63	491.45	491.34	492.62	496.15	496.78	496.77	496.65	496.30	496.21	495.77
21	493.75	492.59	491.42	490.92	492.64	496.24	496.55	496.75	496.69	496.26	496.14	495.79
22	493.73	492.49	491.41	490.95	492.70	496.30	496.75	496.75	496.59	496.28	496.15	495.77
23	493.65	492.77	491.72	490.89	492.83	496.23	496.75	496.76	496.55	496.26	496.08	495.75
24	493.65	492.52	491.38	490.98	492.85	496.36	496.70	496.74	496.55	496.31	496.13	495.74
25	493.71	492.41	491.27	491.02	493.17	496.35	496.73	496.76	496.53	496.34	496.13	495.76
26	493.73	492.44	491.24	491.10	493.06	496.43	496.74	496.79	496.52	496.32	496.16	495.73
27	493.56	492.31	491.22	491.49	493.16	496.57	496.76	496.75	496.47	496.33	496.10	495.70
28	493.52	492.31	491.15	491.20	493.36	496.57	496.75	496.70	496.46	496.34	496.12	495.76
29	493.47	492.27	491.10	491.22	493.56	496.56	496.65	496.79	496.44	496.30	496.10	495.66
30	493.45	492.27	491.28	491.20	493.66	496.44	496.67	496.83	496.46	496.27	496.16	495.65
31	493.37	492.27	491.07	493.76	493.76	496.44	496.75	496.97	496.46	496.26	496.16	495.62
1914												
1	495.59	494.81	494.00	492.72	492.37	494.22	496.40	496.90	496.30	496.20	496.30	495.05
2	495.50	494.81	493.87	492.70	492.35	494.20	496.40	497.00	496.30	496.20	496.15	495.00
3	495.51	494.75	493.84	492.64	492.45	494.30	496.50	496.80	496.25	496.25	495.90	495.00
4	495.55	494.73	493.84	492.62	492.55	494.37	496.65	496.80	496.20	496.37	495.90	495.00
5	495.51	494.65	493.77	492.70	492.65	494.40	496.77	496.80	496.20	496.35	495.90	495.00
6	495.41	494.65	493.76	492.53	492.67	494.40	496.67	496.70	496.35	496.25	495.80	495.25
7	495.41	494.64	493.69	492.47	492.75	494.60	496.67	496.75	496.50	496.20	495.70	495.10
8	495.41	494.60	493.75	492.45	492.75	494.50	496.75	496.67	496.20	496.20	495.95	494.90
9	495.35	494.53	493.65	492.37	492.75	494.60	496.70	496.85	496.20	496.20	495.85	494.90
10	495.32	494.52	493.58	492.34	492.90	494.70	496.75	496.85	496.10	496.20	495.80	494.90
11	495.38	494.45	493.55	492.26	492.85	494.90	496.87	496.80	496.15	496.35	495.75	494.80
12	495.40	494.45	493.45	492.24	492.85	494.95	497.05	496.80	496.10	496.37	495.70	494.80
13	495.26	494.37	493.45	492.23	492.87	495.00	496.97	496.65	496.25	496.20	495.70	495.05
14	495.24	494.34	493.40	492.15	492.92	495.20	496.97	496.60	496.20	496.25	495.70	494.87
15	495.19	494.45	493.45	492.15	493.00	495.20	497.05	496.70	496.15	496.20	495.80	494.70
16	495.16	494.35	493.34	492.16	493.00	495.14	496.95	496.80	496.10	496.20	495.55	494.60
17	495.15	494.30	493.31	492.19	493.05	495.20	497.05	496.80	496.10	496.20	495.50	494.60
18	495.22	494.25	493.23	492.24	493.05	495.40	497.05	496.70	496.25	496.45	495.50	494.55
19	495.12	494.24	493.20	492.46	493.10	495.40	497.25	496.60	496.20	496.20	495.45	494.50
20	495.11	494.20	493.15	492.28	493.30	495.45	497.15	496.50	496.25	496.20	495.40	494.70
21	495.05	494.14	493.14	492.23	493.40	495.70	497.15	496.50	496.17	496.20	495.30	494.60
22	495.02	494.27	493.25	492.25	493.55	495.65	497.00	496.60	496.15	496.20	495.50	494.50
23	494.99	494.10	493.04	492.29	493.65	495.65	497.00	496.60	496.20	496.25	495.50	494.40
24	494.98	494.05	493.01	492.30	493.80	495.68	497.00	496.50	496.20	496.20	495.35	494.40
25	495.01	494.02	493.02	492.40	493.70	495.80	497.00	496.50	496.20	496.50	495.30	494.70
26	494.98	494.00	492.98	492.45	493.75	495.95	497.10	496.50	496.15	496.35	495.20	494.90
27	494.88	493.97	492.95	492.27	493.90	496.15	497.00	496.40	496.35	496.10	495.20	494.60
28	494.94	493.87	492.90	492.37	493.95	496.20	497.00	496.40	496.25	496.10	495.30	494.40
29	494.85	493.87	492.90	492.37	493.95	496.22	496.95	496.40	496.20	496.10	495.45	494.30
30	494.82	493.84	492.84	492.35	493.95	496.30	496.95	496.50	496.20	496.00	495.15	494.30
31	494.78	493.84	492.74	492.35	494.15	496.30	496.95	496.50	496.20	496.10	495.15	494.25

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE—Continued.

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1	494.20	492.75	491.63	489.90	490.00	490.55	494.07	495.52	495.70	495.70	495.92	496.75
2	494.10	492.80	491.50	489.90	489.95	490.63	493.95	495.52	495.70	495.70	496.05	496.75
3	494.25	492.70	491.40	489.80	489.90	490.70	494.15	495.45	495.67	495.90	496.05	496.78
4	494.10	492.65	491.30	490.25	489.65	490.70	494.27	495.42	495.65	495.73	496.05	496.77
5	493.95	492.65	491.20	489.68	489.68	490.75	494.37	495.42	495.83	495.70	496.10	497.00
6	493.00	492.65	491.18	489.43	489.80	490.75	494.20	495.47	495.92	495.72	496.10	496.92
7	493.00	492.78	491.43	489.60	489.70	491.13	494.18	495.47	495.78	495.72	496.37	496.82
8	493.85	492.70	491.25	489.38	490.45	491.20	494.30	495.55	495.68	495.68	495.97	496.83
9	493.80	492.60	491.00	489.30	490.90	491.13	494.33	495.55	495.70	495.67	496.32	496.82
10	493.90	492.50	491.13	489.30	489.95	491.20	494.45	495.55	495.72	495.88	496.33	496.82
11	493.78	492.40	491.08	490.10	489.40	491.35	494.57	495.55	495.70	495.68	496.25	496.83
12	493.70	492.35	490.90	489.70	489.00	491.53	494.58	495.52	495.82	495.68	496.22	496.93
13	493.60	492.35	490.95	489.45	489.03	491.70	494.63	495.52	495.73	495.68	496.35	496.88
14	493.50	492.25	491.20	489.05	489.03	491.78	494.67	495.55	495.65	495.72	496.55	496.80
15	493.45	492.23	490.83	488.98	489.85	492.08	494.67	495.63	495.63	495.72	496.52	496.82
16	493.40	492.33	490.73	488.90	489.95	492.25	494.62	495.70	495.67	495.82	496.57	496.80
17	493.40	492.20	490.78	489.05	489.95	492.33	494.82	495.67	495.70	495.68	496.63	496.82
18	493.45	492.15	490.75	489.80	490.10	492.43	494.83	495.65	495.62	495.82	496.57	496.75
19	493.40	492.05	490.55	489.65	489.75	492.55	494.97	495.63	495.87	495.85	496.62	496.92
20	493.35	492.00	490.45	489.23	489.65	492.65	494.92	495.63	495.65	495.78	496.63	496.83
21	493.30	491.90	490.75	489.15	489.50	492.58	495.03	495.68	495.67	495.75	496.68	496.82
22	493.25	491.83	490.53	489.10	490.35	492.73	495.03	495.80	495.63	495.85	496.70	496.83
23	493.20	491.88	490.50	489.15	490.38	492.88	495.25	495.57	495.67	495.98	496.68	496.82
24	493.20	491.83	490.45	489.80	490.75	493.00	495.23	495.67	495.67	496.08	496.75	496.82
25	493.20	491.83	490.10	490.20	490.83	493.13	495.33	495.70	495.67	495.78	496.75	496.95
26	493.10	491.75	489.80	489.78	490.43	493.20	495.25	495.65	495.93	495.85	496.75	497.10
27	493.00	491.75	489.90	489.50	490.45	493.43	495.31	495.57	495.83	495.95	496.75	496.88
28	492.90	491.70	490.45	489.10	490.25	493.55	495.27	495.70	495.77	495.90	496.83	496.87
29	492.80	491.60	490.25	489.35	490.85	493.75	495.27	495.77	495.75	495.87	496.80	496.90
30	492.80	491.50	490.00	489.40	490.88	493.83	495.32	495.67	495.72	495.98	496.73	496.83
31	492.85	491.40	489.95	489.40	491.23	494.00	495.37	495.68	495.70	496.08	496.80	496.85
1916												
1	496.87	496.66	495.80	494.67	496.60	498.38	497.50	497.60	497.04	497.10	496.68	496.68
2	496.87	496.65	495.77	494.81	496.50	498.30	497.20	497.60	497.02	497.07	496.67	496.68
3	496.87	496.68	495.70	494.63	496.52	498.15	497.00	497.59	497.24	497.03	496.73	496.77
4	496.82	496.70	495.52	494.43	496.52	498.32	497.37	497.45	497.39	496.97	496.70	496.68
5	496.85	496.65	495.70	494.35	496.50	498.32	496.92	497.47	497.19	497.00	496.87	496.60
6	496.85	496.70	495.60	494.63	496.50	498.08	496.97	497.60	497.10	496.95	496.77	496.60
7	496.80	496.57	495.50	494.28	496.72	498.12	497.14	497.50	497.10	496.95	496.63	496.65
8	496.78	496.58	495.50	494.30	496.25	498.03	497.18	497.50	497.10	496.95	496.72	496.65
9	496.83	496.60	495.50	494.62	496.78	498.02	497.00	497.54	497.10	496.93	496.72	496.65
10	496.83	496.58	495.45	494.53	496.55	498.07	496.90	497.50	497.10	496.82	496.72	496.68
11	496.82	496.45	495.43	494.15	496.68	498.13	497.22	497.47	496.97	496.80	496.65	496.73
12	496.85	496.40	495.43	494.17	496.63	498.05	497.30	497.40	496.99	496.83	496.92	496.67
13	496.85	496.38	495.47	494.20	496.57	498.08	497.28	497.34	497.09	496.82	496.72	496.65
14	496.83	496.30	495.37	494.27	496.82	498.10	497.07	497.20	497.00	496.72	496.68	496.63
15	496.82	496.25	495.35	494.35	496.17	498.12	497.02	497.10	496.97	496.88	496.70	496.60
16	496.78	496.20	495.30	494.62	496.23	498.10	497.33	497.10	496.94	496.78	496.68	496.60
17	496.82	496.13	495.27	494.83	496.45	498.07	497.07	497.10	497.14	496.75	496.68	496.85
18	496.78	496.10	495.08	495.07	496.67	498.08	497.25	497.10	497.05	496.83	496.72	496.72
19	496.77	496.05	495.25	495.28	496.88	497.97	497.02	497.10	497.05	496.85	496.80	496.67
20	496.77	496.15	495.27	495.58	496.98	497.85	497.35	497.29	497.12	496.83	496.72	496.65
21	496.80	496.10	495.12	495.75	497.22	497.87	497.43	497.12	497.14	496.80	496.62	496.65
22	496.67	496.00	494.95	495.97	497.37	497.85	497.42	497.00	497.19	496.87	497.00	496.65
23	496.77	496.00	494.95	496.12	497.37	497.72	497.35	497.07	497.07	496.75	496.95	496.67
24	496.68	495.97	494.95	496.17	497.58	497.57	497.32	497.20	497.19	496.70	496.75	496.73
25	496.73	495.97	494.90	496.27	497.65	497.82	497.39	497.19	497.12	496.65	496.80	496.97
26	496.73	496.05	494.93	496.28	497.62	496.70	497.42	497.10	497.07	496.73	496.98	496.72
27	496.72	496.07	494.85	496.55	497.60	497.50	497.15	497.29	497.14	496.73	496.73	496.72
28	496.75	495.98	494.80	496.62	498.13	497.46	497.25	497.00	497.17	496.63	496.70	496.67
29	496.70	495.83	494.65	496.63	498.05	497.45	497.39	497.02	497.15	496.82	496.63	496.73
30	496.75	495.75	494.57	496.80	498.13	497.43	497.30	497.00	497.05	496.77	496.65	496.62
31	496.73	495.60	494.65	496.80	498.32	497.44	497.00	497.00	497.00	496.67	496.80	496.68

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1.....	496-68	496-30	495-42	493-98	492-75	492-45	492-22	490-70	489-90	490-20	490-05	489-77
2.....	496-65	496-30	495-40	493-65	492-75	492-40	492-63	490-70	490-30	489-90	490-07	489-72
3.....	496-63	496-30	495-30	493-63	492-75	493-20	492-05	490-70	490-95	490-00	490-20	489-63
4.....	496-60	496-33	495-43	493-60	492-73	492-38	492-72	490-70	490-08	490-00	490-35	489-72
5.....	496-53	496-22	495-27	493-50	492-75	492-33	492-15	491-52	489-67	490-12	490-38	490-10
6.....	496-53	496-25	495-15	493-38	493-02	492-30	491-95	490-70	489-90	489-92	490-47	490-07
7.....	496-58	496-25	495-07	493-33	492-78	492-25	492-00	490-80	489-88	489-98	490-28	489-60
8.....	496-62	496-25	495-00	493-37	492-75	492-25	492-20	490-47	489-88	489-83	490-32	489-60
9.....	496-52	496-22	494-95	493-32	492-75	492-25	491-93	490-45	489-97	489-70	490-28	490-12
10.....	496-50	496-13	494-93	493-17	492-75	492-80	491-80	490-47	489-55	489-63	490-30	490-13
11.....	496-50	496-17	495-12	493-05	492-77	492-38	491-82	490-10	489-65	489-78	490-42	490-08
12.....	496-50	496-07	494-92	492-75	492-75	492-37	491-75	490-62	489-97	489-78	490-28	490-03
13.....	496-48	495-93	494-80	492-45	492-75	492-52	491-75	490-40	490-05	489-75	490-28	489-75
14.....	496-57	495-90	494-75	492-32	492-77	492-73	491-70	489-98	490-07	490-32	490-28	490-17
15.....	496-58	495-87	494-72	493-20	492-75	492-68	492-03	490-28	489-92	489-65	490-33	490-18
16.....	496-50	495-83	494-67	492-80	492-75	492-60	491-70	490-58	489-88	489-62	490-38	490-15
17.....	496-47	495-97	494-60	492-80	492-75	492-85	491-65	490-65	489-90	489-77	490-32	490-18
18.....	496-40	496-00	494-75	492-77	492-67	492-77	491-63	490-58	489-87	489-97	490-75	490-03
19.....	496-45	495-80	494-50	492-82	492-67	492-93	491-62	490-62	489-92	490-60	490-40	489-87
20.....	496-45	495-80	494-43	492-75	492-97	492-48	491-65	490-30	489-88	490-72	489-90	489-85
21.....	496-48	495-77	494-35	492-82	492-70	492-25	491-60	490-20	489-92	490-52	489-42	489-87
22.....	496-40	495-80	494-30	492-85	492-65	492-25	492-03	490-20	489-93	490-13	489-82	489-92
23.....	496-40	495-80	494-28	492-73	492-63	492-25	491-65	490-13	490-62	490-17	489-90	489-92
24.....	496-40	495-80	494-20	492-78	492-57	492-33	491-35	490-05	490-02	489-82	489-70	489-77
25.....	496-37	495-83	494-47	492-80	492-55	492-27	491-35	490-10	489-92	489-87	489-60	490-37
26.....	496-33	495-77	494-22	492-72	492-55	492-12	491-22	490-37	489-87	489-87	489-75	489-98
27.....	496-32	495-62	494-17	492-75	493-13	492-20	491-20	489-80	490-05	489-77	489-65	489-75
28.....	496-40	495-63	494-03	492-75	492-55	492-25	491-20	489-95	489-98	489-97	490-75	489-75
29.....	496-45	.....	493-90	493-00	492-43	492-15	491-45	489-90	489-90	489-83	489-85	489-72
30.....	496-30	.....	493-85	492-75	492-42	492-10	491-08	489-82	490-57	489-70	489-62	489-65
31.....	496-30	.....	493-75	.....	492-45	.....	490-93	489-82	.....	489-80	.....	489-93
1918												
1.....	489-82	489-90	489-90	489-72	490-35	491-81	494-00	494-77	494-85	493-88	493-32	493-75
2.....	489-70	489-93	489-90	489-75	490-45	492-20	494-02	494-83	494-92	493-88	493-30	493-77
3.....	489-70	490-07	490-00	489-75	490-40	492-31	494-05	494-85	494-58	493-78	493-42	493-63
4.....	489-77	490-00	489-90	489-75	490-47	492-40	494-05	494-87	494-65	493-82	493-38	493-65
5.....	489-90	489-97	489-80	489-75	490-57	492-50	493-88	494-85	494-57	494-00	493-40	493-65
6.....	489-77	489-90	489-80	489-80	490-62	492-47	494-05	494-85	494-53	493-95	493-28	493-73
7.....	489-90	489-90	489-75	489-92	490-65	492-58	494-23	494-83	494-60	493-83	493-42	493-65
8.....	489-95	489-97	489-80	489-80	490-62	492-58	494-13	494-80	494-75	493-77	493-30	493-80
9.....	489-60	489-87	489-85	489-80	490-67	492-95	494-20	494-80	494-57	493-68	493-38	493-83
10.....	489-73	490-07	489-85	489-80	490-65	492-80	494-28	494-55	494-50	493-75	493-48	493-72
11.....	489-90	489-92	489-85	489-80	490-73	492-66	494-27	494-85	494-50	493-62	493-45	493-73
12.....	489-80	489-90	489-80	489-80	491-02	492-91	494-20	494-90	494-58	493-25	493-38	493-72
13.....	489-80	489-87	489-82	489-80	490-78	492-98	494-37	494-80	494-38	493-57	493-50	493-67
14.....	489-87	489-90	489-80	489-92	491-03	493-11	494-45	494-73	494-37	493-72	493-50	493-65
15.....	489-95	489-95	489-80	489-82	491-10	493-08	494-50	494-78	494-42	493-57	493-50	493-73
16.....	489-97	489-95	489-82	489-85	491-10	493-40	494-55	494-77	494-30	493-53	493-58	493-73
17.....	489-85	490-00	489-80	489-85	491-07	493-30	494-48	494-85	494-27	493-48	493-60	493-70
18.....	490-05	489-97	489-80	489-93	491-18	493-35	494-50	495-00	494-37	493-32	493-65	493-70
19.....	489-92	489-95	489-77	489-87	491-30	493-45	494-50	494-82	494-33	493-35	493-67	493-70
20.....	489-97	489-85	489-77	489-73	491-28	493-37	494-50	494-68	494-23	493-32	493-70	493-70
21.....	489-97	489-85	489-67	490-10	491-52	493-45	494-55	494-85	494-28	493-42	493-75	493-70
22.....	489-95	489-90	489-70	489-72	491-20	493-51	494-53	494-78	494-20	493-27	493-72	493-85
23.....	490-00	489-90	489-63	489-90	491-48	493-55	494-55	494-63	494-12	493-35	493-68	493-75
24.....	489-95	489-93	489-80	489-88	491-52	493-63	494-55	494-72	494-20	493-18	493-67	493-75
25.....	489-90	489-97	489-72	489-88	491-63	493-61	494-68	494-85	494-15	493-20	493-75	494-05
26.....	490-00	489-93	489-73	489-93	491-78	493-63	494-50	494-77	494-05	493-30	493-68	493-83
27.....	490-00	489-95	489-65	489-95	491-85	493-61	494-57	494-75	493-85	493-48	493-70	493-70
28.....	489-93	489-90	489-68	490-37	491-85	493-61	494-65	494-70	493-90	493-45	493-75	493-70
29.....	489-90	.....	489-73	490-25	491-95	493-81	494-82	474-70	494-07	493-35	493-70	493-75
30.....	489-90	.....	489-67	490-27	491-95	493-91	494-70	494-73	493-87	493-35	493-78	493-82
31.....	489-90	.....	489-82	.....	492-03	.....	494-73	494-68	.....	493-35	.....	493-70

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1	493-70	492-75	491-72	491-25	492-55	495-07	495-72	496-80	496-40	496-12	495-83	495-72
2	493-65	493-07	491-83	491-23	492-60	495-00	496-17	496-70	496-13	496-02	495-97	495-70
3	493-60	492-77	491-87	491-32	492-55	495-13	496-37	496-85	496-02	496-00	495-80	495-70
4	493-60	492-70	491-65	491-35	492-75	495-35	496-63	496-70	495-95	496-03	495-90	495-07
5	493-68	492-65	491-63	491-45	492-65	495-17	496-65	496-60	495-90	496-10	495-87	495-62
6	493-70	492-58	491-58	491-50	492-80	495-10	496-62	496-60	495-90	495-97	495-80	495-62
7	493-65	492-57	491-70	491-48	492-85	495-15	496-40	496-57	496-00	496-00	495-80	495-75
8	493-57	492-55	491-62	491-53	492-95	495-33	496-48	496-52	495-80	495-88	495-72	495-62
9	493-60	492-77	491-73	491-52	492-95	495-48	496-68	496-45	495-73	496-02	495-82	495-63
10	493-55	492-63	491-63	491-55	493-05	495-47	496-77	496-65	495-68	495-92	495-77	495-65
11	493-50	492-53	491-60	491-58	493-32	495-45	496-75	496-48	495-65	496-00	495-73	495-62
12	493-60	492-50	491-50	491-65	493-60	495-45	496-47	496-57	495-65	496-13	495-78	495-60
13	493-50	492-42	491-27	491-70	493-70	495-45	496-65	496-63	495-70	496-02	495-83	495-68
14	493-50	492-42	491-37	491-68	493-80	495-43	496-60	496-65	495-85	495-97	495-80	495-83
15	493-53	492-35	491-40	491-80	493-97	495-67	496-72	496-60	495-68	495-85	495-80	495-63
16	493-35	492-70	491-57	491-85	494-12	495-60	496-78	496-55	495-65	495-87	495-98	495-62
17	493-37	492-45	491-38	491-88	494-20	495-60	496-83	496-74	495-77	495-87	495-82	495-60
18	493-25	492-30	491-50	491-95	494-25	495-60	496-82	496-55	495-95	495-85	495-82	495-67
19	493-33	492-23	491-55	492-00	494-40	495-60	497-00	496-55	495-92	496-00	495-83	495-60
20	493-27	492-20	491-42	492-12	494-50	495-60	496-93	496-48	496-03	496-00	495-80	495-60
21	493-23	492-20	491-35	492-10	494-55	495-60	496-87	496-45	496-08	495-85	495-78	495-65
22	493-20	492-15	491-43	492-10	494-60	495-77	496-93	496-45	496-03	495-88	495-72	495-45
23	493-15	492-57	491-42	492-17	494-50	495-68	496-78	496-37	496-08	495-85	495-90	495-47
24	493-10	492-20	491-35	492-23	494-50	495-65	496-87	496-53	496-07	495-90	495-75	495-67
25	493-08	492-00	491-50	492-35	494-57	495-63	496-95	496-32	496-12	495-90	495-75	495-72
26	493-23	491-90	491-47	492-35	494-60	495-73	496-95	496-25	496-12	496-12	495-78	495-53
27	493-03	491-80	491-32	492-50	494-65	495-70	496-90	496-18	496-13	496-02	495-73	495-47
28	492-98	491-63	491-32	492-40	494-67	495-60	496-82	496-15	496-35	495-90	495-72	495-58
29	492-90	.....	491-35	492-45	494-70	495-65	496-88	496-02	496-12	495-90	495-72	495-45
30	492-75	.....	491-35	492-47	494-68	495-60	496-80	496-10	496-15	495-90	495-83	495-45
31	492-80	.....	491-30	.....	494-80	.....	496-83	496-20	.....	495-60	.....	495-45
1920												
1	495-40	494-78	493-87	492-80	493-25	495-23	496-07	496-40	496-75	496-50	496-33	495-95
2	495-40	494-75	493-70	492-80	493-70	495-27	495-77	496-78	496-70	496-57	496-20	495-95
3	495-40	494-70	493-70	492-73	493-65	495-43	495-02	495-77	496-62	496-55	496-20	495-90
4	495-48	494-70	493-65	492-92	493-60	495-50	495-93	496-80	496-62	496-55	496-15	495-90
5	495-36	494-67	493-60	492-78	493-60	495-57	495-82	496-93	496-95	496-50	496-10	495-95
6	495-35	494-60	493-55	492-65	493-65	495-83	495-77	496-93	496-80	496-50	496-23	495-90
7	495-28	494-58	493-67	492-65	493-73	495-75	496-35	496-95	496-64	496-60	496-23	495-90
8	495-30	494-65	493-50	492-53	493-75	495-78	496-65	497-07	496-50	496-40	496-32	495-80
9	495-30	494-58	493-45	492-55	494-00	495-85	496-75	496-97	496-55	496-47	496-20	495-80
10	495-25	494-55	493-38	492-50	493-97	495-92	496-75	496-93	496-53	496-55	496-23	495-80
11	495-32	494-52	493-33	492-75	493-95	495-97	496-83	496-93	496-57	496-47	496-20	495-80
12	495-20	494-45	493-30	492-62	493-95	496-02	496-90	496-83	496-67	496-42	496-10	495-85
13	495-18	494-37	493-23	492-45	494-00	496-18	496-80	496-87	496-57	496-36	496-08	495-75
14	495-20	494-30	493-22	492-40	494-00	496-15	496-60	496-87	496-57	496-35	496-22	495-70
15	495-15	494-43	493-10	492-43	494-07	496-22	496-63	497-00	496-47	496-35	496-17	495-70
16	495-15	494-27	493-08	492-45	494-37	496-33	496-50	496-97	496-52	496-35	496-10	495-70
17	495-15	494-25	493-02	492-53	494-17	496-40	496-55	496-92	496-55	496-47	496-10	495-75
18	495-18	494-20	492-92	492-78	494-12	496-35	496-85	496-92	496-60	496-37	496-10	495-77
19	495-10	494-15	492-85	492-60	494-18	496-33	496-70	496-92	496-62	496-40	496-05	495-83
20	495-08	494-10	492-85	492-65	494-27	496-33	496-85	496-85	496-47	496-38	496-05	495-70
21	495-05	494-10	492-97	492-65	494-32	496-40	496-90	496-92	496-47	496-35	496-17	495-70
22	495-05	494-27	492-85	492-73	494-50	496-40	496-90	496-92	496-45	496-43	496-12	495-70
23	495-05	494-08	492-85	492-83	494-75	496-40	496-87	496-93	496-52	496-33	496-00	495-70
24	494-98	494-02	492-80	492-92	494-82	496-35	496-82	496-90	496-42	496-38	496-05	495-70
25	495-00	493-95	492-80	493-33	494-82	496-27	496-85	496-90	496-50	496-33	496-05	495-85
26	494-93	493-90	492-75	493-02	494-93	496-00	496-78	496-88	496-67	496-37	496-00	496-80
27	494-88	493-82	492-78	493-10	494-87	496-00	496-77	496-82	496-60	496-32	496-00	495-73
28	494-82	493-75	492-95	493-15	495-02	495-93	496-70	496-80	496-60	496-30	496-08	495-65
29	494-80	493-87	492-92	493-15	495-10	496-05	496-38	497-02	496-60	496-27	495-98	495-60
30	494-75	.....	492-93	493-20	495-33	496-10	496-38	496-85	496-50	496-30	495-97	495-60
31	494-70	.....	492-85	.....	495-22	.....	496-30	496-80	.....	496-37	.....	495-60



WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1	495.60	494.60	494.27	493.02	494.23	495.65	496.42	496.52	496.65	496.40	495.87	496.10
2	495.70	494.57	494.20	493.00	494.23	495.70	496.40	496.45	496.60	496.48	495.80	496.07
3	495.60	494.55	494.15	493.05	494.20	495.73	496.50	496.45	496.60	496.45	495.85	496.05
4	495.62	494.50	494.10	492.92	494.20	495.65	496.50	496.42	496.60	496.35	495.80	496.30
5	495.45	494.52	494.05	492.87	494.25	495.70	496.50	496.45	496.55	496.30	495.88	496.05
6	495.40	494.70	494.30	492.93	494.30	495.75	496.53	496.47	496.53	496.28	495.93	496.00
7	495.40	494.60	494.07	493.03	494.36	495.75	496.48	496.47	496.60	496.48	496.00	496.00
8	495.37	494.60	494.00	493.18	494.40	495.75	496.50	496.37	496.65	496.30	495.98	495.93
9	495.47	494.55	493.90	493.40	494.45	495.80	496.45	496.35	496.65	496.50	495.95	495.95
10	495.37	494.60	493.85	493.63	494.48	495.82	496.50	496.40	496.65	496.40	496.00	495.90
11	495.35	494.60	493.75	493.50	494.53	495.90	496.48	496.40	496.63	496.35	495.98	496.23
12	495.27	494.60	493.73	493.50	494.58	495.95	496.50	496.40	496.60	496.30	495.95	496.05
13	495.18	494.60	493.07	493.50	494.65	496.00	496.53	496.40	496.62	496.30	496.15	496.00
14	495.12	494.58	493.80	493.50	494.65	496.08	496.50	496.43	496.60	496.30	496.00	496.00
15	495.02	494.60	493.70	493.50	494.75	496.15	496.45	496.43	496.62	496.30	495.98	495.95
16	495.12	494.55	493.70	493.50	494.75	496.15	496.48	496.40	496.60	496.40	496.00	495.90
17	495.07	494.55	493.65	493.73	494.70	496.10	496.60	496.43	496.50	496.30	496.00	495.95
18	495.00	494.55	493.65	493.57	494.75	496.20	496.50	496.45	496.63	496.30	496.00	496.12
19	495.00	494.57	493.60	493.70	494.80	496.25	496.45	496.43	496.62	496.28	496.00	495.98
20	495.00	494.55	493.82	493.63	494.80	496.30	496.45	496.45	496.55	496.27	496.17	495.93
21	494.95	494.57	493.50	493.63	494.85	496.20	496.45	496.50	496.43	496.15	496.00	495.90
22	494.90	494.50	493.50	493.65	494.90	496.15	496.45	496.53	496.50	496.10	496.00	495.90
23	495.00	494.50	493.47	493.70	494.95	496.30	496.45	496.50	496.50	496.23	496.02	495.85
24	494.90	494.45	493.40	493.83	495.12	496.35	496.55	496.45	496.40	496.12	496.02	495.93
25	494.85	494.47	493.30	493.73	495.25	496.37	496.48	496.60	496.60	496.13	496.02	496.12
26	494.82	494.50	493.20	493.70	495.32	496.40	496.48	496.60	496.47	496.05	496.08	495.90
27	494.80	494.55	493.27	493.65	495.35	496.40	496.55	496.55	496.37	496.00	496.20	495.82
28	494.72	494.35	493.23	493.65	495.40	496.40	496.45	496.55	496.45	495.95	496.10	495.72
29	494.70	.....	493.15	493.65	495.45	496.45	496.50	496.53	496.40	495.95	496.05	495.75
30	494.77	.....	493.02	493.65	495.56	496.40	496.45	496.53	496.40	496.00	496.05	495.70
31	494.67	.....	492.95	.....	495.65	.....	496.53	496.58	.....	495.98	.....	495.70
1922												
1	495.83	494.85	493.85	492.45	494.00	495.37	496.00	495.83	495.50	495.33	495.10	494.40
2	495.70	494.85	493.75	492.70	494.00	495.35	495.95	495.80	495.45	495.30	495.05	494.45
3	495.65	494.80	493.65	492.63	494.05	495.25	495.70	495.80	495.83	495.30	495.05	494.57
4	495.65	494.75	493.55	492.53	494.10	495.40	495.85	495.80	495.80	495.30	495.10	494.40
5	495.58	495.00	493.93	492.60	494.15	495.43	495.75	495.80	495.63	495.30	495.25	494.30
6	495.55	494.75	493.50	492.55	494.15	495.20	495.80	496.03	495.50	495.35	495.20	494.25
7	495.50	494.70	493.40	492.55	494.35	495.30	495.80	495.90	495.35	495.35	495.10	494.25
8	495.75	494.70	493.40	492.60	494.40	495.40	495.80	495.85	495.50	495.38	495.05	494.25
9	495.55	494.65	493.32	492.93	494.45	495.42	495.80	495.85	495.40	495.40	495.00	494.25
10	495.50	494.62	493.28	492.75	494.50	495.40	495.80	495.85	495.60	495.40	494.90	494.50
11	495.50	494.53	493.33	492.80	494.50	495.63	495.70	495.80	495.43	495.35	494.90	494.25
12	495.50	494.70	493.48	492.80	494.55	495.50	495.75	495.80	495.40	495.30	495.18	494.15
13	495.50	494.42	493.22	492.80	494.60	495.50	495.70	495.80	495.40	495.25	494.95	494.10
14	495.48	494.40	493.15	492.80	494.87	495.55	495.70	495.80	495.40	495.25	494.85	494.10
15	495.65	494.40	493.10	492.85	495.10	495.60	495.70	495.80	495.30	495.33	494.80	494.05
16	495.42	494.40	493.02	493.40	495.10	495.72	495.90	495.75	495.40	495.30	494.80	494.00
17	495.35	494.40	493.00	493.15	494.80	495.65	495.70	495.75	495.43	495.15	494.80	494.20
18	495.32	494.32	492.95	493.20	494.90	495.83	495.70	495.80	495.35	495.25	494.80	494.00
19	495.35	494.53	493.27	493.30	494.95	495.67	495.70	495.80	495.25	495.25	494.97	494.00
20	495.20	494.20	492.95	493.32	495.00	495.60	495.70	495.70	495.20	495.22	494.75	493.95
21	495.15	494.10	492.85	493.35	495.20	495.65	495.70	495.80	495.20	495.20	494.77	493.85
22	495.35	494.10	492.80	493.40	495.17	495.60	495.75	495.75	495.15	495.30	494.65	493.75
23	495.15	494.05	492.75	493.77	495.12	495.50	496.00	495.70	495.10	495.25	494.50	493.80
24	495.10	494.00	492.70	493.70	495.17	495.55	495.70	495.65	495.25	495.20	494.50	494.10
25	495.10	493.95	492.65	493.60	495.25	495.80	495.65	495.60	495.20	495.07	494.53	494.15
26	495.10	494.18	493.03	493.75	495.20	495.57	495.65	495.60	495.15	495.07	494.73	493.7
27	495.08	493.98	492.77	493.75	495.23	495.60	495.65	495.80	495.15	495.15	494.55	493.60
28	495.02	493.90	492.65	493.75	495.60	495.60	495.60	495.65	495.20	495.15	494.45	493.60
29	495.17	.....	492.60	493.80	495.37	495.60	495.65	495.55	495.20	495.27	494.40	493.55
30	494.98	.....	492.55	494.20	495.35	495.60	495.93	495.50	495.20	495.10	494.50	493.60
31	494.90	.....	492.50	.....	495.35	.....	495.87	495.50	.....	495.05	.....	493.65

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1.	493.65	492.05	490.20	488.50	491.20	492.80	493.25	493.05	493.05	492.80	492.25	491.80
2.	493.50	492.00	490.12	488.27	490.50	492.90	493.30	493.00	493.25	492.75	492.25	491.75
3.	493.40	491.85	489.90	488.10	490.70	493.00	493.40	492.95	493.32	492.70	492.25	491.75
4.	493.30	492.40	490.00	487.95	490.70	492.90	493.50	492.90	493.10	492.75	492.20	491.75
5.	493.30	491.90	489.72	487.80	490.50	492.95	493.33	493.27	493.15	492.65	492.15	491.75
6.	493.25	491.85	489.30	488.22	490.60	493.00	493.30	492.95	493.10	492.65	492.15	491.65
7.	493.50	491.80	489.30	488.38	490.55	493.00	493.25	493.00	493.00	492.73	492.20	491.70
8.	493.25	491.50	489.22	489.40	490.80	493.00	493.53	492.95	493.05	492.60	492.10	491.65
9.	493.25	491.50	489.10	488.20	490.70	493.00	493.43	492.95	493.20	492.55	492.10	491.60
10.	493.15	491.40	488.80	488.20	490.85	493.18	493.43	492.95	492.90	492.55	492.10	491.50
11.	493.15	491.50	488.83	488.10	490.90	493.05	493.30	492.90	492.95	492.50	492.10	491.60
12.	493.10	491.50	488.40	488.00	490.95	493.05	493.40	493.17	492.90	492.40	492.15	491.55
13.	493.10	491.40	488.53	488.00	490.93	493.10	493.40	493.00	492.90	492.45	492.10	491.45
14.	493.20	491.25	488.60	487.90	490.95	493.05	493.45	492.80	492.90	492.40	492.05	491.50
15.	493.10	491.20	488.55	487.80	492.05	493.00	493.45	493.00	492.90	492.45	492.00	491.40
16.	492.95	491.10	488.40	487.95	492.10	493.12	493.40	492.90	492.90	492.45	492.00	491.50
17.	492.90	491.13	488.40	488.00	492.10	493.10	493.30	493.00	492.90	492.50	492.00	491.40
18.	492.80	491.10	488.90	487.95	492.30	492.90	493.30	493.00	492.90	492.45	492.00	491.35
19.	492.75	491.00	488.80	488.30	492.35	492.85	493.25	493.10	492.90	492.45	492.00	491.30
20.	492.70	491.05	488.50	488.50	492.42	493.00	493.10	493.00	493.00	492.45	491.90	491.30
21.	492.80	491.00	488.70	488.80	492.35	493.15	493.10	492.95	492.90	492.45	491.90	491.30
22.	492.66	490.73	488.65	489.38	492.40	493.15	493.33	492.90	492.90	492.40	491.90	491.30
23.	492.57	490.65	488.65	489.55	492.40	493.10	493.15	492.90	492.90	492.40	491.80	491.30
24.	492.50	490.50	488.60	489.85	492.55	493.33	493.15	492.90	492.90	492.40	491.90	491.30
25.	492.40	490.57	489.60	490.05	492.55	493.35	493.10	492.90	492.90	492.50	491.90	491.30
26.	492.35	490.40	488.50	490.10	492.60	493.25	493.10	492.97	492.80	492.40	491.90	491.25
27.	492.25	490.10	488.45	490.30	492.73	493.00	493.10	492.90	492.80	492.30	491.80	491.20
28.	492.40	490.05	488.40	490.40	492.70	493.25	493.10	492.95	492.85	492.30	491.80	491.10
29.	492.25	.....	488.45	490.50	492.75	493.10	493.23	492.95	492.95	492.25	491.85	491.10
30.	492.20	.....	488.50	490.60	492.80	493.15	493.15	492.90	492.90	492.20	491.80	491.10
31.	492.10	.....	488.55	.....	492.80	.....	493.15	493.10	.....	492.20	.....	491.10
1924												
1.	490.90	490.20	489.90	489.35	489.65	490.35	490.65	490.70	490.65	490.90	491.40	492.65
2.	490.90	490.30	489.93	489.30	489.80	490.30	490.60	490.70	490.63	490.85	491.60	492.65
3.	490.85	490.50	489.98	489.30	489.80	490.30	490.67	490.75	490.60	490.85	491.70	492.65
4.	490.85	490.25	489.85	489.40	489.90	490.35	490.67	490.75	490.65	490.85	491.75	492.70
5.	490.80	490.25	489.85	489.20	489.80	490.35	490.70	490.77	490.70	490.90	491.80	492.75
6.	490.75	490.30	489.85	489.25	489.70	490.35	490.75	490.75	490.65	490.85	491.85	492.75
7.	490.75	490.30	489.85	489.30	489.75	490.40	490.67	490.70	490.65	490.95	491.85	492.80
8.	490.70	490.20	489.80	489.25	489.80	490.47	490.70	490.66	490.65	490.95	491.90	492.80
9.	490.70	490.20	489.90	489.20	489.80	490.43	490.60	490.60	490.60	490.95	491.95	492.80
10.	490.65	490.27	489.85	489.20	489.80	490.35	490.60	490.65	490.60	490.90	492.00	492.90
11.	490.60	490.20	489.80	489.20	489.83	490.45	490.65	490.65	490.60	491.00	492.05	492.90
12.	490.55	490.10	489.80	489.20	489.90	490.50	490.65	490.65	490.60	490.95	492.00	492.90
13.	490.55	490.10	489.75	489.10	489.90	490.55	490.65	490.55	490.60	490.80	492.00	492.90
14.	490.65	490.05	489.70	489.15	489.95	490.55	490.60	490.50	490.60	491.05	492.05	492.97
15.	490.65	490.10	489.70	489.20	490.00	490.55	490.60	490.65	490.65	491.10	492.15	498.00
16.	490.65	490.10	489.80	489.20	490.00	490.55	490.65	490.75	490.70	491.15	492.27	498.00
17.	490.55	490.27	489.75	489.20	490.10	490.55	490.65	490.70	490.70	491.15	492.30	498.00
18.	490.50	490.05	489.70	489.23	490.07	490.60	490.65	490.70	490.70	491.20	492.30	498.00
19.	490.45	490.00	489.70	489.25	490.15	490.53	490.60	490.65	490.70	491.25	492.35	498.05
20.	490.55	490.00	489.65	489.25	490.15	490.40	490.65	490.60	490.70	491.25	492.35	498.05
21.	490.50	490.00	489.60	489.40	490.05	490.45	490.65	490.70	490.70	491.25	492.40	498.05
22.	490.45	490.00	489.55	489.40	490.00	490.45	490.60	490.60	490.75	491.30	492.40	498.05
23.	490.45	490.00	489.83	489.40	490.15	490.60	490.60	490.60	490.80	491.30	492.40	498.05
24.	490.50	490.13	489.57	489.40	490.15	490.50	490.65	490.60	490.80	491.30	492.40	498.10
25.	490.45	490.07	489.50	489.50	490.15	490.60	490.65	490.70	490.80	491.30	492.40	498.15
26.	490.45	490.00	489.55	489.60	490.20	490.60	490.65	490.65	490.80	491.35	492.40	498.10
27.	490.45	490.00	489.50	489.70	490.20	490.60	490.65	490.60	490.80	491.40	492.45	498.15
28.	490.45	489.93	489.50	489.63	490.15	490.60	490.70	490.65	490.80	491.50	492.50	498.15
29.	490.35	489.90	489.40	489.65	490.25	490.60	490.80	490.60	490.85	491.55	492.55	498.15
30.	490.30	.....	489.47	489.65	490.25	490.60	490.80	490.50	490.85	491.60	492.60	498.15
31.	490.25	.....	489.40	.....	490.30	.....	490.70	490.53	.....	491.45	.....	498.20

## WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	493-18	493-35	493-45	493-30	494-50	494-80	495-90	496-25	496-30	495-80	495-35	495-50
2	493-20	493-40	493-45	493-30	494-50	494-75	495-78	496-32	496-30	495-80	495-35	495-55
3	493-20	493-40	493-45	493-35	494-62	494-85	495-80	496-27	496-25	495-80	495-40	495-50
4	493-20	493-40	493-45	493-40	494-60	494-95	495-90	496-25	496-30	495-90	495-45	495-55
5	493-20	493-40	493-50	493-40	494-65	494-90	496-00	496-25	496-25	495-80	495-40	495-50
6	493-25	493-40	493-40	493-47	494-65	494-95	496-05	496-30	496-20	495-80	495-35	495-53
7	493-25	493-40	493-40	493-50	494-65	495-00	496-00	496-20	496-20	495-80	495-35	495-60
8	493-25	493-40	493-40	493-55	494-65	495-05	496-05	496-20	496-20	495-75	495-40	495-55
9	493-25	493-45	493-50	493-55	494-60	495-00	496-00	496-20	496-20	495-70	495-50	495-60
10	493-25	493-45	493-40	493-60	494-65	495-10	496-08	496-25	496-20	495-65	495-50	495-60
11	493-22	493-45	493-40	493-65	494-65	495-15	496-10	496-25	496-15	495-70	495-50	495-55
12	493-27	493-45	493-50	493-80	494-70	495-20	496-20	496-20	496-15	495-65	495-50	495-60
13	493-30	493-50	493-45	493-75	494-70	495-10	496-15	496-15	496-15	495-60	495-45	495-60
14	493-35	493-50	493-43	493-75	494-70	495-25	496-15	496-20	496-15	495-55	495-40	495-60
15	493-35	493-50	493-40	493-80	494-70	495-27	496-10	496-20	496-15	495-50	495-40	495-60
16	493-30	493-50	493-35	493-83	494-80	495-25	496-15	496-28	496-10	495-45	495-45	495-60
17	493-30	493-50	493-43	493-95	494-75	495-30	496-20	496-27	496-05	495-45	495-50	495-60
18	493-30	493-50	493-35	493-95	494-70	495-35	496-20	496-25	496-10	495-50	495-45	495-65
19	493-30	493-50	493-40	494-05	494-70	495-35	496-25	496-25	496-05	495-45	495-50	495-65
20	493-30	493-50	493-36	494-10	494-70	495-40	496-15	496-30	496-05	495-45	495-50	495-63
21	493-35	493-50	493-40	494-10	494-75	495-50	496-20	496-25	496-05	495-45	495-45	495-60
22	493-35	493-50	493-45	494-15	494-78	495-55	496-20	496-20	496-00	495-45	495-52	495-60
23	493-35	493-50	493-35	494-28	495-00	495-50	496-15	496-27	496-00	495-40	495-50	495-60
24	493-30	493-50	493-33	494-20	494-95	495-60	496-15	496-20	496-05	495-35	495-50	495-55
25	493-35	493-45	493-40	494-20	494-75	495-60	496-20	496-15	495-95	495-40	495-50	495-80
26	493-35	493-45	493-30	494-30	494-70	495-70	496-36	496-30	495-90	495-35	495-50	495-66
27	493-35	493-48	493-25	494-35	494-70	495-65	496-30	496-25	495-90	495-25	495-55	495-60
28	493-35	493-50	493-25	494-40	494-65	495-80	496-25	496-20	495-90	495-35	495-50	495-55
29	493-30	493-50	493-25	494-55	494-70	495-75	496-25	496-20	496-00	495-35	495-53	495-55
30	493-35	493-30	493-30	494-50	494-65	495-75	496-25	496-27	495-95	495-35	495-55	495-60
31	493-35	493-30	493-30	494-70	494-70	495-75	496-25	496-22	495-95	495-30	495-50	495-55
1926												
1	495-50	494-95	494-20	493-25	493-25	493-60	495-35	496-08	496-20	496-05	496-56	496-85
2	495-50	494-90	494-20	493-25	493-30	394-70	495-35	496-05	496-25	496-00	496-45	496-00
3	495-50	494-90	494-20	493-20	493-25	493-75	495-40	496-10	496-20	496-30	496-45	496-85
4	495-50	494-80	494-15	493-23	493-30	493-75	495-55	496-10	496-25	496-10	496-35	496-00
5	495-45	494-86	494-15	493-20	493-30	493-75	495-58	496-05	496-46	496-20	496-40	497-00
6	495-40	494-90	494-15	493-15	493-30	493-78	495-55	496-05	496-50	496-25	496-43	496-03
7	495-40	494-90	494-20	493-10	493-35	493-70	495-50	496-15	496-26	496-30	496-80	497-90
8	495-40	494-80	494-10	493-05	493-35	493-75	495-60	496-15	496-20	496-30	496-63	497-90
9	495-40	494-80	494-05	493-05	493-42	493-80	495-65	496-15	496-15	496-25	496-75	497-90
10	495-45	494-75	494-00	493-00	493-40	493-85	495-65	496-15	496-20	496-45	496-75	497-85
11	495-30	494-70	494-00	493-06	493-35	493-85	495-85	496-20	496-20	496-40	496-75	497-85
12	495-30	494-70	494-00	492-95	493-35	493-85	495-80	496-15	496-25	496-40	496-80	497-93
13	495-30	494-70	493-95	493-00	493-35	493-90	495-80	496-20	496-22	496-50	496-80	497-90
14	495-30	494-70	494-05	492-95	493-35	494-00	495-80	496-20	496-20	496-50	496-85	497-90
15	495-25	494-65	493-80	493-00	493-25	493-95	495-85	496-20	496-20	496-60	496-75	497-85
16	495-25	494-60	493-80	493-00	493-36	494-00	495-85	496-23	496-15	496-65	496-70	497-83
17	495-35	494-55	493-75	493-00	493-30	494-00	495-85	496-15	496-15	497-90	496-80	497-85
18	495-20	494-55	493-75	493-00	493-30	494-10	495-95	496-20	496-25	496-86	496-30	497-85
19	495-25	494-55	493-70	493-00	493-30	494-05	496-00	496-20	496-20	496-85	496-40	497-00
20	495-20	494-40	493-70	493-00	493-30	494-45	495-95	496-20	496-20	496-80	496-35	496-85
21	495-10	494-65	493-76	493-00	493-50	494-45	495-90	496-25	496-20	496-75	496-60	496-85
22	495-10	494-40	493-65	493-10	493-40	494-55	495-95	496-25	496-30	496-80	496-56	496-80
23	495-05	494-35	493-60	493-10	493-50	494-65	495-95	496-07	496-35	496-76	496-60	496-80
24	495-10	494-30	493-55	493-15	493-50	494-80	495-95	496-10	495-30	496-83	496-80	496-75
25	495-05	494-25	493-50	493-16	493-50	494-90	495-95	496-10	496-00	496-63	496-80	497-15
26	495-00	494-25	493-50	493-20	493-60	494-90	496-00	496-10	496-15	496-60	496-80	497-00
27	495-00	494-25	493-45	493-20	493-60	494-95	496-00	496-20	496-05	496-65	496-82	496-80
28	495-00	494-33	493-48	493-20	493-65	495-05	496-05	496-00	496-00	496-80	496-85	496-80
29	495-00	494-30	493-40	493-20	493-60	495-15	496-05	496-17	496-05	496-76	496-85	496-80
30	495-00	494-30	493-30	493-20	493-60	495-20	496-10	496-23	496-10	496-62	496-90	496-75
31	495-00	494-30	493-25	493-20	493-65	495-20	496-05	496-20	496-05	496-86	496-90	496-70

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, UPPER (D.P.W.) POWER HOUSE GAUGE

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611·61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1.....	496·70	496·36	496·00	495·30	494·30	493·40	493·80	496·40	497·05	496·80	496·30	495·50
2.....	496·80	496·35	495·90	495·30	493·96	493·66	493·90	496·30	497·00	497·03	496·20	495·50
3.....	496·70	496·30	495·90	495·56	494·10	493·80	493·90	496·60	497·00	496·70	496·10	495·50
4.....	496·72	496·25	495·90	495·35	494·50	494·10	493·70	496·70	497·00	496·80	496·10	495·70
5.....	496·70	496·20	495·90	495·40	493·90	494·70	494·30	496·86	496·60	496·83	496·00	495·50
6.....	496·72	496·30	496·00	495·45	493·90	494·20	494·40	496·95	497·08	496·80	496·30	495·50
7.....	496·70	496·20	495·73	495·50	493·80	494·20	494·30	496·93	497·00	496·70	496·10	495·30
8.....	496·80	496·20	495·60	495·50	494·00	494·20	494·30	496·80	497·00	496·70	496·00	495·20
9.....	496·92	496·10	495·55	495·46	493·83	494·30	494·50	496·86	497·00	496·90	495·97	495·20
10.....	496·73	496·20	495·50	495·53	493·50	494·10	495·03	496·90	497·00	496·70	496·10	495·10
11.....	496·78	496·10	495·50	495·40	493·50	494·20	494·20	496·86	497·10	496·50	496·00	495·40
12.....	496·70	496·10	495·50	494·43	493·70	494·50	494·50	496·80	497·00	496·60	495·87	495·00
13.....	496·70	496·17	495·60	495·46	493·80	494·23	494·80	496·80	497·00	496·70	496·20	495·00
14.....	496·65	496·20	495·40	495·48	493·86	494·10	494·80	496·83	497·00	496·70	496·00	495·10
15.....	496·70	496·12	495·45	495·43	494·03	493·96	494·70	496·80	497·00	496·60	496·00	495·00
16.....	496·70	496·10	495·35	495·50	493·43	493·83	494·30	496·90	497·00	496·73	495·93	494·90
17.....	496·60	496·10	495·40	495·65	493·40	493·60	494·30	496·90	497·00	496·63	495·80	494·90
18.....	496·60	496·10	495·40	495·70	493·52	494·46	494·80	496·85	497·05	496·60	495·80	495·10
19.....	496·60	496·10	495·45	495·66	493·53	493·83	494·80	496·80	497·00	496·50	495·70	494·80
20.....	496·55	496·20	495·52	495·50	493·26	493·90	494·70	496·80	496·95	496·40	496·00	494·80
21.....	496·50	496·12	495·52	495·63	493·43	493·80	494·70	497·00	496·90	496·40	495·70	494·70
22.....	496·50	496·10	495·50	495·50	493·50	493·83	494·65	497·00	496·90	496·40	495·70	494·80
23.....	496·60	496·10	495·45	495·63	493·60	493·60	494·80	496·90	496·90	496·60	495·60	494·80
24.....	496·50	496·10	495·45	495·73	493·80	493·50	494·95	497·00	496·90	496·45	495·50	494·87
25.....	496·45	496·10	495·40	495·33	493·93	493·36	494·70	497·00	497·00	496·40	495·50	495·30
26.....	496·45	496·15	495·40	494·83	494·10	493·60	495·13	497·00	496·90	496·40	495·50	495·10
27.....	496·45	496·10	495·53	494·50	494·10	493·66	495·50	497·00	496·90	496·30	495·80	494·83
28.....	496·40	496·12	495·45	494·50	494·10	493·90	496·10	496·90	496·90	496·40	495·50	494·80
29.....	496·40	.....	495·40	494·20	494·10	494·00	496·10	497·00	496·85	496·40	495·50	494·80
30.....	496·55	.....	495·35	494·10	494·13	493·90	496·50	497·00	496·85	496·50	495·50	494·80
31.....	496·45	.....	495·40	.....	493·70	.....	496·60	497·00	.....	496·30	.....	494·80

WATER LEVELS—RAINY RIVER—U.S. PULP MILL GAUGE, AT INTERNATIONAL FALLS, MINN.

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1.....	496-80	496-52	495-77	494-53	496-52	498-70	498-03	497-54	496-99	497-03	496-63	496-62
2.....	496-80	496-55	495-67	494-70	496-55	498-63	497-72	497-57	496-95	497-03	496-62	496-58
3.....	496-78	496-55	495-62	494-55	496-67	498-60	497-47	497-54	497-20	497-00	496-70	496-63
4.....	496-70	496-62	495-47	494-38	496-60	498-70	497-87	497-45	497-32	496-92	496-65	496-58
5.....	496-70	496-52	495-63	494-32	496-63	498-68	497-52	497-42	497-10	496-92	496-80	496-48
6.....	496-75	496-62	495-52	494-25	496-65	498-62	497-40	497-59	497-10	496-90	496-72	496-50
7.....	496-68	496-42	495-45	494-23	496-80	498-67	497-47	497-44	497-10	496-90	496-62	496-55
8.....	496-70	496-45	495-45	494-22	496-30	498-58	497-49	497-42	497-10	496-92	496-63	496-55
9.....	496-72	496-50	495-47	494-55	496-82	498-57	497-35	497-47	497-09	496-88	496-65	496-60
10.....	496-73	496-52	495-42	494-47	496-60	498-57	497-40	497-45	497-09	496-78	496-67	496-60
11.....	496-70	496-40	495-37	494-12	496-80	498-63	497-47	497-40	496-90	496-77	496-60	496-65
12.....	496-73	496-32	495-37	494-12	496-78	498-58	497-55	497-32	496-95	496-77	496-80	496-58
13.....	496-77	496-30	495-42	494-15	496-77	498-58	497-55	497-25	497-04	496-75	496-67	496-57
14.....	496-73	496-25	495-32	494-22	496-85	498-55	497-32	497-15	497-00	496-68	496-63	496-57
15.....	496-70	496-18	495-30	494-30	496-28	498-57	497-30	497-10	496-95	496-83	496-65	496-50
16.....	496-78	496-17	495-25	494-55	496-43	498-60	497-52	497-09	496-95	496-77	496-65	496-50
17.....	496-73	496-08	495-22	494-73	496-67	498-55	497-32	497-10	497-07	496-70	496-62	496-67
18.....	496-68	496-05	495-03	495-02	496-93	498-55	497-42	497-10	497-00	496-78	496-65	496-60
19.....	496-70	496-00	495-20	495-20	497-17	498-43	497-28	497-07	497-07	496-80	496-80	496-55
20.....	496-62	496-07	495-20	495-50	497-30	498-35	497-55	497-19	497-07	496-77	496-63	496-57
21.....	496-72	496-05	495-07	495-68	497-35	498-35	497-57	497-09	497-10	496-75	496-57	496-55
22.....	496-57	495-92	494-92	495-88	497-58	498-30	497-58	496-97	497-12	496-80	496-87	496-57
23.....	496-67	495-92	494-90	496-03	497-58	498-30	497-44	497-04	497-00	496-70	496-77	496-60
24.....	496-58	495-90	494-92	496-10	497-83	498-20	497-35	497-20	497-10	496-65	496-62	496-68
25.....	496-62	495-85	494-85	496-22	497-93	498-25	497-44	497-19	497-10	496-62	496-70	496-97
26.....	496-60	496-00	494-86	496-42	497-92	498-15	497-50	497-09	497-07	496-70	496-88	496-67
27.....	496-60	496-02	494-80	496-47	497-95	498-15	497-24	497-27	497-09	496-70	496-63	496-65
28.....	496-62	495-93	494-75	496-57	498-38	498-15	497-30	496-95	497-12	496-63	496-63	496-57
29.....	496-63	495-77	494-57	496-58	498-41	498-10	497-44	497-00	497-10	496-75	496-52	496-68
30.....	496-65	.....	494-52	496-73	498-50	498-10	497-35	496-99	497-00	496-73	496-60	496-57
31.....	496-60	.....	494-62	.....	498-59	.....	497-49	496-97	.....	496-63	.....	496-57
1917												
1.....	496-62	496-20	495-33	493-93	492-70	492-40	492-15	490-65	490-02	490-27	490-02	489-77
2.....	496-85	496-20	495-32	493-58	492-70	492-35	492-47	490-65	490-37	489-08	489-88	489-77
3.....	496-53	496-20	495-23	493-58	492-70	493-17	492-00	490-65	490-87	490-10	490-00	489-67
4.....	496-50	496-23	495-33	493-50	492-70	492-33	492-80	490-65	490-20	490-03	490-13	489-72
5.....	496-43	496-12	495-18	493-43	492-70	492-30	492-10	491-45	489-77	490-07	490-22	490-00
6.....	496-40	496-15	495-10	493-33	492-88	492-27	491-90	490-63	490-05	490-00	490-30	490-03
7.....	496-53	496-15	495-00	493-30	492-73	492-20	491-95	490-73	490-02	490-05	490-13	489-65
8.....	496-53	496-15	494-95	493-48	492-70	492-20	492-18	490-43	490-00	489-88	490-15	489-60
9.....	496-42	496-12	494-90	493-28	492-70	492-20	491-88	490-40	489-98	489-65	490-13	490-00
10.....	496-40	496-05	494-88	493-10	492-70	492-75	491-75	490-47	489-75	489-77	490-15	490-08
11.....	496-40	496-13	495-05	493-00	492-70	492-28	491-77	490-05	489-82	489-77	490-27	489-98
12.....	496-40	495-98	494-82	492-73	492-70	492-32	491-70	490-57	490-05	489-87	490-13	489-95
13.....	496-38	495-83	494-70	492-57	492-88	492-52	491-70	490-32	490-17	489-73	490-15	489-88
14.....	496-53	495-80	494-68	492-43	492-70	492-70	491-65	489-93	490-18	490-23	490-15	490-05
15.....	496-42	495-78	494-65	492-15	492-72	492-70	491-98	490-32	490-05	489-60	490-18	490-12
16.....	496-42	495-75	494-60	492-75	492-70	492-67	491-67	490-58	490-02	489-73	490-23	490-12
17.....	496-40	495-93	494-52	492-77	492-70	492-88	491-60	490-72	489-97	489-87	490-17	490-05
18.....	496-35	495-92	494-68	492-72	492-62	492-83	491-60	490-65	490-02	489-90	490-70	489-87
19.....	496-35	495-73	494-47	492-77	492-60	493-00	491-55	490-70	490-00	490-43	490-25	489-70
20.....	496-37	495-70	494-38	492-72	492-92	492-53	491-60	490-30	490-03	490-62	489-88	489-67
21.....	496-42	495-70	494-30	492-78	492-62	492-20	491-55	490-17	490-12	490-62	489-82	489-83
22.....	496-33	495-70	494-23	492-80	492-60	492-20	491-93	490-20	490-13	490-20	490-10	489-88
23.....	496-30	495-70	494-27	492-70	492-58	492-20	491-55	490-15	490-43	490-07	489-90	489-97
24.....	496-30	495-70	494-15	492-77	492-52	492-32	491-30	490-07	490-12	489-87	489-75	489-72
25.....	496-28	495-75	494-38	492-75	492-50	492-23	491-30	490-13	490-10	489-87	489-63	490-47
26.....	496-25	495-70	494-10	492-70	492-50	492-08	491-17	490-42	490-03	489-87	489-78	490-02
27.....	496-23	495-55	494-07	492-70	493-02	492-15	491-15	489-83	490-15	489-77	489-60	489-75
28.....	496-33	495-50	493-98	492-70	492-52	492-20	491-15	489-95	490-10	489-83	489-73	489-73
29.....	496-38	.....	493-85	492-88	492-38	492-10	491-35	489-95	490-00	489-80	489-85	489-72
30.....	496-20	.....	493-77	492-70	492-37	492-05	491-05	489-87	490-50	489-72	489-62	489-55
31.....	496-20	.....	493-70	.....	492-40	.....	490-93	489-88	.....	489-82	.....	489-90

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—U.S. PULP MILL GAUGE, AT INTERNATIONAL FALLS, MINN.

—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1	489-88	489-90	489-83	489-70	490-20	491-61	493-88	494-70	494-78	493-87	493-30	493-78
2	489-70	489-93	489-87	489-70	490-30	492-01	493-85	494-78	494-85	493-88	493-30	493-77
3	489-70	490-12	489-90	489-70	490-25	492-17	493-92	494-80	494-57	493-75	493-38	493-63
4	489-73	490-03	489-90	489-75	490-33	492-23	493-90	494-77	494-60	493-82	493-38	493-60
5	489-78	489-97	489-80	489-75	490-35	492-30	493-82	494-80	494-57	493-92	493-38	493-60
6	489-68	489-90	489-80	489-80	490-47	492-28	493-93	494-78	494-45	493-90	493-27	493-63
7	489-73	489-90	489-75	489-87	490-55	492-40	494-18	494-77	494-57	493-85	493-42	493-60
8	489-80	489-97	489-80	489-80	490-50	492-40	494-07	494-75	494-72	493-75	493-33	493-82
9	489-60	489-90	489-85	489-80	490-55	492-75	494-15	494-75	494-57	493-67	493-37	493-83
10	489-70	490-13	489-82	489-80	490-50	492-51	494-23	494-53	494-50	493-73	493-52	493-68
11	489-80	489-97	489-85	489-80	490-58	492-46	494-22	494-80	494-50	493-60	493-45	493-70
12	489-67	489-90	489-78	489-80	490-82	492-73	494-15	494-88	494-35	493-13	493-40	493-70
13	489-77	489-93	489-80	489-80	490-68	492-83	494-32	494-72	494-38	493-55	493-53	493-65
14	489-80	490-00	489-80	489-70	490-88	492-95	494-43	494-68	494-32	493-70	493-55	493-63
15	489-85	490-00	489-75	489-77	490-95	492-90	494-42	494-68	494-32	493-57	493-50	493-75
16	489-93	490-00	489-83	489-85	490-95	493-25	494-45	494-68	494-23	493-53	493-62	493-68
17	489-85	490-05	489-70	489-85	490-92	493-10	494-40	494-80	494-23	493-45	493-62	493-65
18	490-15	489-97	489-80	489-90	491-03	493-20	494-45	495-05	494-28	493-30	493-65	493-65
19	489-83	489-90	489-70	489-83	491-17	493-20	494-40	494-75	494-25	493-27	493-67	493-65
20	489-90	489-90	489-70	489-70	491-13	493-15	494-43	494-62	494-17	493-40	493-70	493-65
21	489-87	489-90	489-60	489-95	491-35	493-20	494-47	494-82	494-15	493-37	493-75	493-73
22	489-92	489-90	489-60	489-70	491-05	493-31	494-43	494-83	494-15	493-15	493-70	493-90
23	490-00	489-92	489-60	489-90	491-33	493-35	494-50	494-58	494-02	493-27	493-70	493-80
24	489-95	489-80	489-75	489-88	491-32	493-53	494-50	494-68	494-13	493-12	493-67	493-80
25	489-90	489-95	489-67	489-83	491-48	493-51	494-63	494-82	494-03	493-13	493-73	494-05
26	489-98	489-88	489-73	489-90	491-60	493-53	494-45	494-75	494-00	493-20	493-68	493-83
27	490-00	489-85	489-65	489-85	491-70	493-53	494-53	494-75	494-83	493-40	493-70	493-68
28	489-97	489-90	489-67	490-12	491-70	493-48	494-58	494-65	493-90	493-40	493-77	493-70
29	489-90	.....	489-70	490-15	491-75	493-70	494-77	494-63	494-07	493-35	493-73	493-75
30	489-90	.....	489-67	490-17	491-80	493-77	494-63	494-63	493-87	493-33	493-78	493-82
31	489-90	.....	489-72	.....	491-83	.....	494-68	494-63	.....	493-30	.....	493-70
1919												
1	493-70	492-75	491-73	491-25	492-50	495-07	495-75	496-80	496-40	496-12	495-85	495-70
2	493-65	493-07	491-83	491-24	492-55	494-97	496-17	496-70	496-10	496-00	495-95	495-75
3	493-60	492-77	491-87	491-33	492-58	495-07	496-35	496-87	496-02	495-98	495-80	495-70
4	493-57	492-67	491-60	491-40	492-75	495-37	496-63	496-70	495-92	495-98	495-90	495-65
5	493-65	492-60	491-63	491-50	492-60	495-17	496-65	496-63	495-90	496-10	495-87	495-62
6	493-72	492-57	491-57	491-50	492-75	495-07	496-65	496-60	495-90	495-98	495-80	495-62
7	493-65	492-53	491-68	491-55	492-80	495-12	496-50	496-57	496-00	495-98	495-80	495-73
8	493-62	492-53	491-62	491-57	492-90	495-33	496-57	496-52	495-84	495-87	495-72	495-62
9	493-55	492-83	491-73	491-52	492-93	495-47	496-68	496-45	495-73	495-98	495-82	495-62
10	493-50	492-60	491-62	491-55	493-00	495-43	496-80	496-68	495-68	495-98	495-77	495-60
11	493-40	492-47	491-60	491-58	493-30	495-43	496-82	496-48	495-65	496-02	495-75	495-60
12	493-63	492-45	491-50	491-65	493-60	495-45	496-57	496-57	495-65	496-10	495-77	495-60
13	493-47	492-37	491-27	491-70	493-70	495-47	496-67	496-63	495-68	495-97	495-83	495-62
14	493-45	492-37	491-33	491-67	493-80	495-47	496-67	496-70	495-85	495-93	495-78	495-77
15	493-48	492-30	491-38	491-80	493-97	495-68	496-77	496-60	495-68	495-80	495-80	495-58
16	493-30	492-75	491-60	491-85	494-12	495-60	496-78	496-55	495-65	495-83	496-00	495-55
17	493-32	492-43	491-37	491-90	494-17	495-60	496-82	496-70	495-77	495-85	495-82	495-55
18	493-20	492-28	491-50	492-00	494-25	495-58	496-82	496-53	495-95	495-80	495-82	495-55
19	493-35	492-23	491-57	492-00	494-43	495-63	496-95	496-58	495-87	496-00	495-83	495-50
20	493-27	492-17	491-47	492-17	494-58	495-65	496-95	496-48	496-03	495-98	495-80	495-50
21	493-20	492-17	491-40	492-10	494-58	495-62	496-83	496-45	496-12	495-83	495-77	495-70
22	493-18	492-12	491-45	492-07	494-63	495-80	496-83	496-45	496-02	495-87	495-72	495-42
23	493-10	492-57	491-38	492-13	494-50	495-70	496-78	496-37	496-03	495-83	495-93	495-43
24	493-08	492-20	491-33	492-18	494-50	495-67	496-87	496-50	496-05	495-85	495-75	495-55
25	493-08	492-00	491-48	492-33	494-60	495-68	496-95	496-32	496-12	495-90	495-78	495-72
26	493-30	491-85	491-43	492-30	494-60	495-75	496-95	496-23	496-12	496-10	495-75	495-47
27	493-02	491-78	491-33	492-52	494-63	495-72	496-87	496-18	496-13	496-02	495-73	495-47
28	492-98	491-63	491-32	492-42	494-67	495-62	496-82	496-15	496-30	495-90	495-72	495-55
29	492-85	.....	491-38	492-43	494-70	495-68	496-88	496-03	496-10	495-90	495-72	495-40
30	492-75	.....	491-40	492-43	494-72	495-60	496-78	496-10	496-10	495-90	495-83	495-42
31	492-80	.....	491-30	.....	494-80	.....	496-83	496-20	.....	495-58	.....	495-40

WATER LEVELS—RAINY RIVER—U.S. PULP MILL GAUGE, AT INTERNATIONAL FALLS, MINN.

—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1	495-35	494-77	493-83	492-75	493-23	495-27	496-17	496-50	496-75	496-55	496-33	495-95
2	495-38	494-70	493-65	492-75	493-80	495-27	496-03	496-82	496-70	496-60	496-20	495-95
3	495-36	494-65	493-65	492-68	493-63	495-43	496-18	496-77	496-62	496-52	496-20	495-90
4	495-48	494-65	493-60	492-92	493-57	495-50	496-10	496-80	496-62	496-55	496-15	495-90
5	495-33	494-62	493-55	492-75	493-55	495-57	496-12	496-93	496-95	496-50	496-10	495-95
6	495-30	494-55	493-50	492-60	493-60	495-87	495-97	496-93	496-80	496-50	496-23	495-92
7	495-28	494-53	493-67	492-60	493-68	494-75	496-43	496-90	496-64	496-50	496-21	495-90
8	495-25	494-73	493-45	492-50	493-68	495-78	496-65	497-12	496-50	496-40	496-32	495-85
9	495-28	494-53	493-40	492-50	494-15	495-85	496-75	496-88	496-57	496-42	496-20	495-85
10	495-20	494-50	493-33	492-45	493-90	495-92	496-75	496-90	496-57	496-55	496-27	495-85
11	495-35	494-47	493-28	492-75	493-90	495-97	496-83	496-92	496-60	496-47	496-20	495-85
12	495-16	494-40	493-25	492-58	493-90	496-02	496-88	496-85	496-67	496-45	496-10	495-88
13	495-17	494-32	493-18	492-40	493-95	496-18	496-82	496-87	496-67	496-38	496-08	495-78
14	495-15	494-25	493-22	492-37	493-95	496-15	496-65	496-87	496-57	496-35	496-23	495-70
15	495-10	494-40	493-05	492-40	494-02	496-22	496-67	497-00	496-43	496-35	496-17	495-75
16	495-10	494-22	493-03	492-40	494-47	496-30	496-58	496-93	496-52	496-35	496-10	495-75
17	495-10	494-20	492-97	492-53	494-13	496-35	496-60	496-92	496-55	496-50	496-10	495-88
18	495-17	494-15	592-87	492-78	494-12	496-32	496-88	496-92	496-60	496-38	496-10	495-80
19	495-07	494-10	492-80	492-57	494-15	496-32	496-75	496-92	496-65	496-40	496-05	495-83
20	495-03	494-05	492-80	492-62	494-25	496-40	496-87	496-85	496-47	496-40	496-05	495-75
21	495-00	494-07	492-97	492-62	494-25	496-35	496-90	496-92	496-47	496-38	496-17	495-75
22	495-00	494-27	492-83	492-70	494-45	496-35	496-90	496-92	496-45	496-48	496-12	495-75
23	495-00	494-03	492-83	492-78	494-75	496-40	496-87	496-93	496-52	496-33	496-00	495-75
24	494-93	493-97	492-75	492-88	494-82	496-37	496-83	496-90	496-42	496-43	496-05	495-73
25	494-95	493-90	492-78	493-27	494-80	496-27	496-82	496-93	496-50	496-37	496-00	495-85
26	494-90	493-85	492-70	493-00	494-90	496-10	496-78	496-88	496-62	496-40	495-95	495-80
27	494-83	493-77	492-73	493-05	494-87	496-17	496-78	496-85	496-60	496-35	495-95	495-77
28	494-78	493-70	492-95	493-10	495-00	496-15	496-75	496-85	496-60	496-32	496-13	495-70
29	494-75	493-87	492-90	493-12	495-10	496-25	496-48	497-03	496-62	496-28	495-98	495-65
30	494-70	.....	492-92	493-15	495-33	496-27	496-50	496-85	496-55	496-33	495-92	495-60
31	494-65	.....	492-80	.....	495-22	.....	496-40	496-80	.....	496-37	.....	495-60
1921												
1	495-60	494-60	494-27	493-03	494-23	495-65	496-40	496-52	496-65	496-40	495-87	496-10
2	495-70	494-57	494-20	493-00	494-23	495-70	496-40	496-45	496-60	496-48	495-80	496-07
3	495-60	494-55	494-15	493-10	494-20	495-74	496-50	496-45	496-60	496-45	495-85	496-05
4	495-52	494-50	494-10	492-95	494-20	495-70	496-50	496-42	496-60	496-35	495-80	496-30
5	495-45	494-52	494-05	492-92	494-25	495-75	496-50	496-45	496-55	496-33	495-88	496-05
6	495-40	494-70	494-40	492-98	494-30	495-80	496-57	496-47	496-53	496-28	495-93	496-00
7	495-40	494-65	494-10	493-08	494-36	495-80	496-48	496-47	496-60	496-33	496-00	496-00
8	495-37	494-65	494-00	493-25	494-40	495-80	496-50	496-40	496-65	496-30	495-98	495-93
9	495-50	494-60	493-95	493-40	494-45	495-85	496-45	496-40	496-65	496-50	495-95	495-95
10	495-37	494-65	493-83	493-70	494-48	495-85	496-50	496-43	496-65	496-40	496-00	495-90
11	495-35	494-65	493-80	493-52	494-53	495-95	496-48	496-40	496-63	496-35	495-98	496-23
12	495-27	494-65	493-78	493-55	494-58	496-00	496-50	496-43	496-60	496-30	495-95	496-05
13	495-18	494-65	493-97	493-52	494-65	496-00	496-53	496-40	496-65	496-30	496-15	496-00
14	495-12	494-68	493-85	493-55	494-65	496-08	496-50	496-45	496-65	496-30	496-00	496-00
15	495-02	494-65	493-75	493-55	494-75	496-15	496-45	496-43	496-65	496-30	495-98	495-95
16	495-12	494-60	493-75	493-55	494-77	496-15	496-48	496-40	496-60	496-40	496-00	495-90
17	495-07	494-60	493-70	493-73	494-75	496-10	496-60	496-43	496-50	496-30	496-00	495-85
18	495-00	494-60	493-70	493-62	494-80	496-20	496-50	496-45	496-63	496-30	496-00	496-12
19	495-00	494-60	493-65	493-70	494-85	496-25	496-45	496-43	496-65	496-28	496-00	495-98
20	495-00	494-60	493-87	493-68	494-85	496-30	496-45	496-45	496-60	496-27	496-17	495-93
21	494-95	494-62	493-55	493-68	494-90	486-20	496-45	496-50	496-50	496-15	496-00	495-90
22	494-90	494-55	493-55	493-70	494-95	496-15	496-45	496-50	496-52	496-10	496-00	495-90
23	495-05	494-55	493-52	493-70	495-00	496-30	496-45	496-50	496-55	496-23	496-02	495-83
24	494-87	494-50	493-45	493-85	495-13	496-35	496-55	496-55	496-45	496-12	496-02	495-93
25	494-85	494-52	493-30	493-80	495-25	496-35	496-48	496-60	496-60	496-13	496-02	496-12
26	494-82	494-55	493-20	493-75	495-32	496-40	496-48	496-60	496-50	496-05	496-08	495-90
27	494-80	494-60	493-35	493-70	495-35	496-40	496-50	496-55	496-37	496-00	496-20	495-82
28	494-72	494-37	493-25	493-70	495-40	496-40	496-45	496-55	496-50	495-95	496-10	495-72
29	494-70	.....	493-15	493-67	495-45	496-45	496-50	496-53	496-40	495-95	496-05	495-73
30	494-77	.....	493-03	493-68	495-56	496-40	496-45	496-53	496-40	496-00	496-05	495-65
31	494-67	.....	492-95	.....	495-65	.....	496-53	496-58	.....	495-98	.....	495-70

WATER LEVELS—RAINY RIVER—U.S. PULP MILL GAUGE, AT INTERNATIONAL FALLS, MINN.

—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	495-83	494-85	493-90	492-45	494-00	495-37	495-95	495-83	495-50	495-33	495-10	494-40
2	495-65	494-85	493-80	492-70	494-00	495-35	495-90	495-80	495-45	495-30	495-05	494-45
3	495-65	494-80	493-70	492-63	494-05	495-25	495-70	495-80	495-83	495-30	495-05	494-57
4	495-65	494-75	493-60	492-53	494-10	495-40	495-95	495-80	495-80	495-30	495-10	494-40
5	495-58	495-05	493-93	492-65	494-15	495-43	495-75	495-80	495-63	495-30	495-25	494-30
6	495-55	494-75	493-55	492-60	494-15	495-20	495-80	496-03	495-55	495-35	495-20	494-25
7	495-50	494-75	493-45	492-60	494-35	495-30	495-80	495-90	495-40	495-35	495-10	494-25
8	495-75	494-70	493-45	492-65	494-40	495-40	495-80	495-85	495-55	495-38	495-05	494-25
9	495-55	494-70	493-37	492-93	494-45	495-42	495-80	495-85	495-45	495-40	495-00	494-25
10	495-50	494-66	493-33	492-80	494-50	495-40	495-80	495-85	495-60	495-40	494-90	494-50
11	495-50	494-58	493-38	492-85	494-50	495-65	495-70	495-80	495-43	495-30	494-90	494-25
12	495-50	494-75	493-53	492-85	494-55	495-50	495-75	495-80	495-40	495-35	495-20	494-15
13	495-50	494-46	493-27	492-85	494-60	495-50	495-70	495-80	495-40	495-25	494-95	494-10
14	495-48	494-45	493-20	492-85	494-87	495-55	495-70	495-80	495-40	495-25	494-85	494-10
15	495-65	494-45	493-15	492-85	495-10	495-60	495-70	495-80	495-30	495-33	494-80	494-05
16	495-42	494-45	493-07	493-43	495-10	495-72	495-90	495-75	495-40	495-30	494-80	494-00
17	495-35	494-45	493-00	493-15	494-80	495-65	495-70	495-75	495-43	495-15	494-80	494-20
18	495-32	494-37	492-95	493-20	494-90	495-83	495-70	495-80	495-35	495-25	494-80	494-00
19	495-35	494-59	493-27	493-30	494-95	495-67	495-70	495-80	495-25	495-25	494-97	494-00
20	495-20	494-25	492-95	493-32	495-00	495-60	495-70	495-70	495-20	495-22	494-75	493-95
21	495-15	494-15	496-85	493-35	495-20	495-65	495-70	495-80	495-20	495-20	494-77	493-85
22	495-40	494-15	492-80	493-40	495-17	495-60	495-80	495-75	495-15	495-30	494-65	493-75
23	495-15	494-10	492-75	493-77	495-12	495-50	496-05	495-70	495-10	495-25	494-50	493-80
24	495-10	494-05	492-70	493-70	495-17	495-55	495-75	495-65	495-25	495-25	494-50	494-10
25	495-10	494-00	492-65	493-60	495-25	495-80	495-70	495-60	495-20	495-07	494-53	494-15
26	495-10	494-23	493-03	493-75	495-20	495-57	495-70	495-60	495-15	495-07	494-73	493-73
27	495-08	494-03	492-77	493-75	495-23	495-60	495-70	495-80	495-15	495-15	494-55	493-60
28	495-02	493-95	492-65	493-75	495-60	495-60	495-65	495-65	495-20	495-15	494-45	493-60
29	495-17	493-95	492-60	493-80	495-37	495-60	495-70	495-53	495-20	495-27	494-40	493-55
30	494-98	493-95	492-55	494-25	495-35	495-60	495-93	495-50	495-20	495-10	494-50	493-50
31	494-90	493-95	492-50	493-80	495-35	495-60	495-87	495-50	495-20	495-05	494-50	493-65
1923												
1	493-65	492-05	490-20	488-85	491-20	492-80	493-25	493-05	493-05	492-80	492-35	491-90
2	493-50	491-00	490-12	488-85	491-50	492-90	493-30	493-00	493-25	492-75	492-35	491-85
3	493-40	491-85	489-90	488-75	491-70	493-00	493-40	492-95	493-32	492-70	492-35	491-85
4	493-30	492-40	490-00	488-65	491-70	492-90	493-51	492-90	493-10	492-75	492-30	491-85
5	493-30	491-90	489-72	488-57	491-60	492-95	493-33	493-27	493-15	492-65	492-25	491-85
6	493-25	491-85	489-40	488-70	491-60	493-00	493-30	492-90	493-10	492-65	492-25	491-75
7	493-50	491-80	489-40	488-83	491-55	493-00	493-25	492-00	493-00	492-73	492-30	491-80
8	493-25	491-50	489-32	489-40	491-80	493-00	493-53	492-95	493-05	492-60	492-20	491-75
9	493-20	491-50	489-20	488-53	491-70	493-00	493-43	492-95	493-10	492-55	492-20	491-60
10	493-15	491-40	489-00	488-70	491-85	493-18	493-43	492-95	492-90	492-55	492-20	491-60
11	493-15	491-50	489-03	488-60	491-90	493-05	493-30	492-90	492-95	492-50	492-20	491-70
12	493-10	491-50	488-90	488-60	491-95	493-05	493-40	493-10	492-90	492-40	492-25	491-65
13	493-10	491-40	488-93	488-60	491-93	493-10	493-40	493-00	492-90	492-45	492-20	491-55
14	493-20	491-25	489-05	488-55	491-95	493-05	493-45	492-80	492-90	492-40	492-15	491-60
15	493-10	491-20	489-05	488-40	492-05	493-00	493-45	493-00	492-90	492-45	492-10	491-50
16	492-95	491-10	488-90	488-68	492-10	493-12	493-38	492-90	492-90	492-45	492-10	491-60
17	492-90	491-13	488-90	488-60	492-10	493-10	493-30	493-00	492-90	492-60	492-10	491-50
18	492-80	491-10	489-33	488-55	492-30	492-90	493-30	493-00	492-90	492-55	492-10	491-45
19	492-75	491-00	489-40	488-65	492-35	492-85	493-25	493-07	492-90	492-55	492-05	491-40
20	492-70	491-05	489-10	488-85	492-42	493-00	493-10	493-00	493-00	492-55	492-00	491-40
21	492-80	491-00	489-13	489-10	492-35	493-15	493-10	492-95	492-90	492-55	492-00	491-40
22	492-66	490-73	489-10	489-48	492-40	493-15	493-27	492-90	492-90	492-50	492-00	491-40
23	492-57	490-65	489-10	489-75	492-40	493-10	493-15	492-90	492-90	492-50	491-90	491-40
24	492-50	490-50	489-10	489-95	492-55	493-33	493-15	492-90	492-90	492-50	492-00	491-40
25	492-40	490-57	489-60	490-15	492-55	493-35	493-10	492-90	492-90	492-57	492-00	591-40
26	492-35	490-40	489-00	490-20	492-60	493-25	493-10	492-93	492-80	492-40	492-00	491-35
27	492-25	490-10	488-95	490-40	492-73	493-00	493-10	492-90	492-80	492-40	491-90	491-30
28	492-35	490-05	488-80	490-50	492-70	493-25	493-10	492-95	492-85	492-40	491-90	491-20
29	492-25	490-05	488-95	490-50	492-75	493-10	493-17	492-95	492-95	492-35	491-95	491-20
30	492-20	490-05	489-00	490-60	492-80	493-15	493-15	492-90	492-90	492-30	491-90	491-20
31	492-10	490-05	488-95	490-60	492-80	493-15	493-15	493-10	492-90	492-30	491-90	491-20



WATER LEVELS—RAINY RIVER—U.S. PULP MILL GAUGE, AT INTERNATIONAL FALLS, MINN  
—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	491.00	490.30	490.00	489.45	489.75	490.40	490.65	490.70	490.70	490.90	491.40	492.65
2	491.00	490.40	490.07	489.40	489.90	490.35	490.60	490.70	490.63	490.85	491.60	492.65
3	490.95	490.60	490.08	489.40	489.90	490.35	490.67	490.75	490.60	490.85	491.70	492.65
4	490.95	490.45	489.95	489.50	489.95	490.40	490.73	490.75	490.65	490.85	491.75	492.70
5	490.90	490.45	489.95	489.30	489.90	490.40	490.70	490.77	490.70	490.85	491.80	492.75
6	490.85	490.40	489.95	489.30	489.80	490.40	490.75	490.75	490.65	490.85	491.85	492.75
7	490.85	490.40	489.95	489.40	489.80	490.45	490.67	490.70	490.65	490.95	491.85	492.80
8	490.80	490.35	489.90	489.35	489.90	490.57	490.70	490.66	490.65	490.95	491.90	492.80
9	490.80	490.35	489.95	489.30	489.85	490.50	490.60	490.60	490.60	490.95	491.97	492.80
10	490.75	490.38	489.95	489.30	489.85	490.40	490.60	490.65	490.60	490.90	491.00	492.90
11	490.70	490.33	489.90	489.30	489.93	490.50	490.65	490.65	490.60	491.00	492.05	492.90
12	490.65	490.25	489.90	489.25	490.00	490.60	490.65	490.65	490.60	490.95	492.00	492.90
13	490.65	490.25	489.80	489.20	489.95	490.60	490.65	490.55	490.60	490.80	492.00	492.90
14	490.75	490.20	489.80	489.25	490.00	490.60	490.60	490.50	490.60	491.05	492.05	492.90
15	490.75	490.30	489.75	489.35	490.05	490.60	490.60	490.65	490.65	491.10	492.15	493.00
16	490.75	490.25	489.90	489.35	490.05	490.60	490.65	490.75	490.70	491.15	492.27	493.00
17	490.65	490.32	489.80	489.35	490.15	490.60	490.65	490.70	490.70	491.15	492.30	493.00
18	490.60	490.25	489.75	489.33	490.12	490.65	490.65	490.70	490.70	491.20	492.30	493.00
19	490.55	490.20	489.75	489.35	490.20	490.53	490.60	490.65	490.70	491.25	492.35	493.05
20	490.65	490.20	489.70	489.35	490.20	490.40	490.65	490.60	490.70	491.25	492.35	493.05
21	490.60	490.15	489.70	489.50	490.10	490.45	490.65	490.70	490.70	491.25	492.40	493.05
22	490.55	490.15	489.60	489.50	490.05	490.50	490.60	490.60	490.75	491.30	492.40	493.05
23	490.55	490.15	489.87	489.50	490.20	490.50	490.60	490.60	490.80	491.30	492.40	493.05
24	490.60	490.25	489.67	489.50	490.20	490.50	490.65	490.70	490.80	491.30	492.40	493.10
25	490.55	490.20	489.55	489.60	490.25	490.60	490.65	490.70	490.80	491.30	492.40	493.15
26	490.55	490.15	489.60	489.70	490.25	490.60	490.65	490.65	490.80	491.35	492.40	493.10
27	490.55	490.10	489.55	489.80	490.25	490.60	490.65	490.60	490.80	491.40	492.45	493.15
28	490.55	490.05	489.55	489.73	490.20	490.60	490.70	490.65	490.80	491.50	492.50	493.15
29	490.45	490.00	489.50	489.75	490.30	490.60	490.80	490.46	490.85	491.55	492.55	493.15
30	490.40	.....	489.50	489.75	490.30	490.60	490.80	490.45	490.85	491.60	492.60	493.15
31	490.35	.....	489.50	.....	490.35	.....	490.70	490.45	.....	491.45	.....	493.20
1925												
1	493.18	493.35	493.45	493.25	494.50	494.80	495.80	496.25	496.30	495.80	495.35	495.50
2	493.20	493.40	493.45	493.30	494.50	494.75	495.78	496.32	496.30	495.80	495.35	495.55
3	493.20	493.40	493.45	493.30	494.58	494.85	495.80	496.27	496.25	495.80	495.40	495.50
4	493.20	493.40	493.45	493.35	494.60	494.95	496.00	496.25	496.30	495.85	495.45	495.55
5	493.20	493.40	493.50	493.35	494.65	494.90	496.00	496.25	496.25	495.80	495.20	495.50
6	493.25	493.40	493.40	493.42	494.65	494.95	496.05	496.30	496.20	495.80	495.35	495.53
7	493.25	493.40	493.40	493.45	494.65	495.00	496.00	496.20	496.20	495.80	495.35	495.60
8	493.25	493.40	493.40	493.50	494.65	495.05	496.05	496.20	496.20	495.80	495.40	495.60
9	493.25	493.45	493.50	493.50	494.60	495.00	496.00	496.20	496.20	495.70	495.50	495.60
10	493.25	493.45	493.40	493.55	494.60	495.10	496.08	496.25	496.20	495.70	495.50	495.60
11	493.25	493.45	493.40	493.60	494.65	495.15	496.10	496.25	496.15	495.70	495.50	495.55
12	493.27	493.45	493.50	493.78	494.70	495.20	496.20	496.20	496.15	495.65	495.50	495.50
13	493.30	493.50	493.45	493.70	494.70	495.10	496.15	496.15	496.15	495.60	495.45	495.60
14	493.35	493.50	493.43	493.70	494.70	495.25	496.15	496.20	496.15	495.60	495.40	495.60
15	493.35	493.50	493.40	493.75	494.65	495.27	496.10	496.20	496.15	495.55	495.40	495.60
16	493.30	493.50	493.35	493.78	494.80	495.25	496.15	496.28	496.10	495.50	495.45	495.60
17	493.30	493.50	493.40	493.90	494.75	495.30	496.20	496.27	496.05	495.45	495.50	495.60
18	493.30	493.50	493.30	493.90	494.70	495.35	496.20	496.25	496.10	495.50	495.45	495.65
19	493.30	493.50	493.35	494.00	494.70	495.35	496.25	496.25	496.05	495.50	495.50	495.65
20	493.30	493.50	493.36	494.05	494.70	495.40	496.15	496.30	496.05	495.50	495.50	495.63
21	493.35	493.50	493.40	494.05	494.75	495.50	496.20	496.25	496.05	495.50	495.45	495.60
22	493.35	493.50	493.40	494.10	494.78	495.55	496.20	496.20	496.00	495.50	495.52	495.60
23	493.35	493.50	493.35	494.22	495.00	495.50	496.15	496.27	496.00	495.45	495.50	495.60
24	493.30	493.50	493.31	494.15	494.90	495.60	496.15	496.20	496.05	495.40	495.50	495.55
25	493.35	493.45	493.25	494.15	494.75	495.60	496.20	496.15	495.95	495.40	495.50	495.80
26	493.35	493.45	493.25	494.25	494.70	495.70	496.36	496.30	495.90	495.40	495.50	495.66
27	493.35	493.50	493.20	494.30	494.70	495.65	496.30	496.25	495.90	495.30	495.55	495.60
28	493.35	493.50	493.20	494.35	494.65	495.80	496.25	496.20	495.90	495.50	495.50	495.55
29	493.30	.....	493.20	494.50	494.70	495.75	496.25	496.20	496.00	495.35	495.53	495.55
30	493.35	.....	493.25	494.50	494.65	495.75	496.25	496.27	496.05	495.35	495.55	495.65
31	493.35	.....	493.25	.....	494.70	.....	496.25	496.22	.....	495.30	.....	495.55

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—U.S. PULP MILL GAUGE, AT INTERNATIONAL FALLS, MINN.  
—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1.....	495-50	494-95	494-25	493-25	493-25	493-60	495-35	496-08	496-20	496-05	496-66	496-85
2.....	495-50	494-90	494-25	493-25	493-30	493-70	495-35	496-05	496-25	496-30	496-45	496-90
3.....	495-50	494-90	494-25	493-20	493-30	493-75	495-40	496-10	496-20	496-30	496-45	496-85
4.....	495-45	495-80	494-20	493-23	493-30	493-75	495-55	496-10	496-25	496-10	496-30	496-90
5.....	495-45	494-86	494-20	493-20	493-35	493-75	495-58	496-05	496-40	496-20	496-40	497-00
6.....	495-40	494-90	494-20	493-15	493-30	493-78	495-55	496-05	496-50	496-25	496-43	496-93
7.....	495-40	494-90	494-20	493-10	493-35	493-70	495-55	496-15	496-26	496-30	496-73	496-90
8.....	495-40	494-80	494-10	493-05	493-35	493-80	495-65	496-15	496-20	496-30	496-63	496-90
9.....	495-40	494-80	494-10	493-05	493-42	493-85	495-70	496-15	496-15	496-25	496-75	496-90
10.....	495-45	494-75	494-05	493-00	493-40	493-85	495-70	496-15	496-20	496-40	496-75	496-85
11.....	495-30	494-70	494-05	493-06	493-35	493-90	495-75	496-20	496-20	496-40	496-75	496-85
12.....	495-30	494-70	494-05	492-95	493-35	493-90	495-75	496-15	496-20	496-40	496-80	496-93
13.....	495-30	494-70	494-00	493-00	493-35	493-90	495-80	496-20	496-22	496-50	496-80	496-90
14.....	495-30	494-70	494-05	492-95	493-35	494-00	495-80	496-20	496-20	496-50	496-85	496-90
15.....	495-30	494-65	493-80	493-00	493-25	493-95	495-85	496-20	496-20	496-60	496-75	496-85
16.....	495-30	494-60	493-80	493-00	493-36	494-00	495-85	496-23	496-15	496-65	496-70	496-83
17.....	495-35	494-55	493-75	493-00	493-30	494-00	495-85	496-15	496-15	497-00	496-80	496-85
18.....	495-20	494-55	493-75	493-00	493-35	494-10	495-95	496-20	496-25	496-86	496-90	496-85
19.....	495-25	494-55	493-70	493-05	493-35	494-05	496-00	496-20	496-20	496-85	496-40	496-95
20.....	495-20	494-40	493-70	493-05	493-35	494-45	495-95	496-20	496-25	496-80	496-35	496-85
21.....	495-10	494-65	493-76	493-00	493-50	494-45	495-90	496-25	496-25	496-75	496-60	496-85
22.....	495-15	494-40	493-65	493-10	493-40	494-55	495-95	496-22	496-30	496-80	496-56	496-80
23.....	495-10	494-40	493-60	493-10	493-50	494-65	495-95	496-07	496-35	496-76	496-60	496-80
24.....	495-10	494-30	493-55	493-15	493-50	494-80	495-95	496-10	495-90	496-83	496-80	496-75
25.....	495-05	494-30	493-50	493-18	493-50	494-90	495-95	496-10	496-00	496-63	496-80	497-15
26.....	495-00	494-30	493-50	493-20	493-60	494-90	496-00	496-10	496-10	496-60	496-80	497-00
27.....	495-00	494-30	493-45	493-25	493-60	494-95	496-00	496-20	496-05	496-65	496-82	496-80
28.....	495-02	494-33	493-48	493-25	493-65	495-05	496-05	496-00	496-00	496-80	496-85	496-80
29.....	495-05	.....	493-40	493-25	493-60	495-15	496-05	496-17	496-05	496-76	496-85	496-80
30.....	495-05	.....	493-30	493-25	493-65	495-20	496-10	496-23	496-10	496-62	496-90	496-75
31.....	495-00	.....	493-25	.....	493-70	.....	496-05	496-20	.....	496-86	.....	496-70
1927												
1.....	496-70	496-36	496-00	495-30	495-50	495-40	495-10	496-40	497-05	496-80	496-30	495-50
2.....	496-80	496-35	495-90	495-30	495-00	495-56	495-10	496-40	497-00	497-03	496-20	495-50
3.....	496-70	496-30	495-90	495-56	495-10	495-70	495-20	496-60	497-00	496-70	496-10	495-50
4.....	496-72	496-25	495-90	495-35	495-33	495-80	495-30	496-70	497-10	496-80	496-10	495-70
5.....	496-70	496-20	495-90	495-40	495-00	496-30	495-40	496-86	496-80	496-83	496-00	495-50
6.....	496-72	496-30	496-00	495-45	495-03	495-96	495-30	496-95	497-08	496-80	496-30	495-50
7.....	496-70	496-20	495-73	495-50	495-00	495-90	495-30	496-93	497-00	496-70	496-10	495-30
8.....	496-80	496-20	495-60	495-50	495-30	496-00	495-30	496-80	497-00	496-70	496-00	495-20
9.....	496-92	496-10	495-55	495-46	495-30	495-90	495-30	496-86	497-00	496-90	495-97	495-20
10.....	496-73	496-20	495-50	495-53	495-10	495-80	495-56	496-90	497-00	496-70	496-10	495-10
11.....	496-78	496-10	495-50	495-40	495-10	495-90	495-16	496-86	497-10	496-50	496-00	495-40
12.....	496-70	496-10	495-50	495-43	495-20	496-00	495-30	496-80	497-00	496-60	495-87	495-00
13.....	496-70	496-17	495-60	495-46	495-30	495-93	495-50	496-80	497-00	496-70	496-20	495-00
14.....	496-65	496-20	495-40	495-48	495-40	496-80	495-60	496-83	497-00	496-70	496-00	495-10
15.....	496-70	496-12	495-45	495-43	495-50	496-86	495-50	496-80	497-00	496-60	496-00	495-00
16.....	496-70	496-10	495-35	495-50	495-33	496-73	495-40	496-90	497-00	496-73	495-93	494-90
17.....	496-80	496-10	495-40	495-65	495-30	496-50	495-40	496-90	497-00	496-63	495-80	494-90
18.....	496-60	496-10	495-40	495-70	495-42	496-86	495-55	496-85	497-05	496-90	495-80	495-10
19.....	496-60	496-10	495-45	495-76	495-40	496-53	495-55	496-80	497-00	496-50	495-70	494-80
20.....	496-55	496-20	495-52	495-70	495-33	496-53	495-60	496-80	496-95	496-40	496-00	494-80
21.....	496-50	496-12	495-52	495-83	495-53	496-40	495-50	497-00	496-90	496-40	495-70	494-70
22.....	496-50	496-10	495-50	495-85	495-60	496-53	495-45	497-00	496-90	496-40	495-70	494-80
23.....	496-60	496-10	495-45	495-88	495-60	496-40	495-50	496-90	496-90	496-60	495-60	494-80
24.....	496-50	496-10	495-45	496-03	495-70	496-30	495-45	497-00	496-90	496-45	495-50	494-87
25.....	496-45	496-10	495-40	495-83	495-73	496-20	495-35	497-00	497-00	496-40	495-50	495-30
26.....	496-45	496-15	495-40	495-63	495-80	496-30	495-60	497-00	496-90	496-40	495-50	494-10
27.....	496-45	496-10	495-53	495-50	495-80	496-26	495-70	497-00	496-90	496-30	495-80	494-83
28.....	496-40	496-12	495-45	495-50	495-80	496-30	496-20	496-90	496-90	496-40	495-50	494-80
29.....	496-40	.....	495-40	495-20	495-80	496-30	496-20	497-00	496-85	496-40	495-50	494-80
30.....	496-50	.....	495-35	495-10	495-86	496-20	496-60	497-00	496-85	496-50	495-50	494-80
31.....	496-40	.....	495-40	.....	495-66	.....	496-70	497-00	.....	496-30	.....	494-80

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. & O.) GAUGE

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611·61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1									463·67	462·47	462·51	464·21
2									463·66	462·98	462·50	464·22
3									463·57	462·69	462·44	463·59
4									463·24	462·82	462·16	464·72
5									463·35	462·87	461·64	464·06
6									463·61	462·87	462·04	464·01
7									463·51	462·64	462·35	463·87
8									463·60	462·32	462·29	463·89
9									463·40	462·14	462·36	463·99
10									463·15	462·35	462·60	463·27
11									463·37	462·79	462·18	463·17
12									463·37	462·82	.....	463·55
13									463·35	462·85	463·77	463·55
14									462·88	463·33	462·56	463·52
15									463·60	463·43	461·90	463·49
16									463·70	463·17	461·91	464·17
17									463·72	462·29	462·51	462·84
18									463·75	462·25	462·62	464·20
19									463·53	463·01	462·84	462·28
20									462·15	463·10	463·02	463·36
21									462·97	462·95	462·67	464·15
22									463·67	462·93	462·05	464·27
23									463·77	462·99	462·07	463·59
24									463·81	462·29	462·17	464·37
25									463·72	462·21	462·73	464·66
26									463·70	462·58	462·83	463·75
27									462·80	462·56	462·89	463·11
28									463·12	462·85	462·75	464·06
29									463·58	462·90	462·11	464·17
30									463·68	462·98	461·88	464·20
31									463·65	462·37	462·37	463·55
1912												
1	463·40	464·10	464·19	462·42	463·86	463·59	462·66	465·56	463·15	463·86	463·87	463·48
2	464·02	464·65	464·13	462·78	463·85	462·95	462·93	465·57	462·05	463·71	463·83	464·68
3	464·30	464·87	463·33	462·77	463·82	463·23	463·05	465·61	463·67	463·75	463·26	464·83
4	464·42	463·62	463·42	462·68	463·91	463·45	462·69	465·07	464·36	464·07	462·91	464·93
5	464·50	463·79	463·93	462·75	463·23	463·45	462·60	465·10	.....	464·07	463·76	464·81
6	464·65	464·25	463·94	.....	463·60	463·38	462·94	465·20	464·80	463·68	463·89	464·90
7	463·46	464·39	463·91	461·85	464·43	463·45	462·43	465·32	464·45	463·84	463·87	464·60
8	463·50	464·40	464·05	462·10	464·74	463·37	463·08	465·32	464·30	463·85	463·94	464·39
9	464·53	464·37	464·05	462·76	464·82	462·98	463·49	465·21	464·44	463·89	463·75	464·67
10	464·68	464·20	463·32	462·92	464·91	463·29	463·70	465·20	464·63	463·98	463·26	465·22
11	464·80	463·36	463·20	462·92	464·83	463·33	464·13	465·10	464·52	463·96	463·50	465·41
12	465·04	463·82	463·65	462·97	463·93	463·32	464·23	464·58	464·44	463·99	463·44	465·54
13	465·15	464·33	463·68	462·95	464·05	463·28	464·32	464·40	464·36	463·55	463·78	465·48
14	462·47	464·24	463·69	462·17	464·64	463·21	463·97	464·51	464·20	463·78	463·86	465·16
15	464·20	464·20	463·74	462·57	464·79	463·20	464·13	464·29	463·58	463·89	463·72	464·53
16	464·71	464·11	463·57	462·93	464·91	462·95	464·63	463·73	463·59	463·88	463·88	464·39
17	464·80	464·06	462·82	462·89	464·62	462·60	464·72	464·00	464·11	463·87	463·99	465·12
18	464·89	463·22	462·84	462·82	464·45	463·09	464·80	463·88	463·93	463·78	463·59	465·31
19	464·90	463·19	463·11	462·84	463·50	463·09	463·65	464·05	463·71	463·84	463·83	465·14
20	464·94	463·76	463·56	462·82	463·79	463·13	464·11	464·51	463·67	463·50	463·84	465·27
21	463·60	463·88	463·62	461·84	464·17	463·26	464·39	464·22	463·36	463·33	463·98	465·13
22	464·04	463·88	463·69	462·24	464·12	463·35	464·55	463·70	463·21	463·72	464·08	464·57
23	464·77	463·91	463·59	462·79	464·18	462·74	464·70	463·49	463·25	463·77	463·90	464·02
24	464·86	463·80	462·55	462·78	464·17	463·10	464·79	465·60	463·59	463·77	463·08	464·39
25	464·79	463·26	462·89	463·00	464·01	463·08	464·78	463·37	464·19	463·77	463·21	464·35
26	464·75	463·49	463·24	463·28	462·69	463·05	464·82	463·47	465·20	463·75	463·78	463·56
27	464·56	464·01	463·27	463·41	463·17	462·97	464·80	463·37	464·86	463·09	463·78	464·39
28	463·35	464·11	463·22	462·65	463·66	462·91	464·73	463·60	464·46	462·78	463·88	464·69
29	463·43	464·16	463·05	463·09	463·72	462·33	465·55	463·54	464·05	462·80	463·79	464·14
30	464·08	.....	462·91	463·73	463·19	462·49	465·55	463·76	464·30	462·83	463·74	464·02
31	464·07	.....	462·19	.....	463·63	.....	465·55	463·73	.....	462·86	.....	464·72

These records correspond to the certified copy of April 3, 1915, as furnished by the Department of Public Works, Canada, and are plotted on the graphs of water levels. The following additional corrections were certified to on May 17, 1915. (Engrs.)

1911 Dec. 4 463·72 | 1912 June 3 463·43 | 1912 Oct. 28 462·58 | Oct. 31 463·86  
 July 18 464·30 | Oct. 30 463·83 | Nov. 17 462·99

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. & O.) GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	464.82	465.76	465.79	464.43	465.51	464.56	466.91	466.14	462.63	463.42	463.69	463.71
2	464.79	464.51	465.09	464.13	465.25	464.80	466.94	466.20	463.66	463.41	463.33	463.33
3	464.94	464.47	465.24	463.87	465.25	465.76	467.10	465.76	463.78	463.33	463.51	464.47
4	465.11	465.54	465.73	464.03	464.93	465.18	466.30	465.89	463.87	463.15	463.69	464.21
5	464.30	465.67	465.81	463.97	465.15	465.03	466.60	465.68	463.90	463.13	463.70	463.92
6	464.52	465.70	465.87	463.20	464.70	465.15	466.95	465.44	463.87	463.46	463.65	464.12
7	465.10	465.70	465.86	463.18	464.63	465.33	467.13	465.51	463.81	463.86	463.63	464.74
8	465.10	465.70	465.85	463.88	465.56	465.38	467.00	465.90	464.04	464.14	463.68	465.15
9	465.22	465.99	464.85	464.01	465.50	465.75	466.90	465.80	463.93	464.39	462.93	465.77
10	465.30	465.68	465.06	464.00	465.09	465.85	467.68	465.63	463.98	464.58	462.67	465.70
11	465.38	465.64	465.37	464.07	464.56	465.63	467.80	465.28	464.13	464.90	463.08	465.59
12	464.55	465.80	465.27	464.13	464.60	465.30	467.91	465.40	464.03	464.67	463.55	465.42
13	464.93	465.78	465.17	463.35	464.67	465.05	468.20	465.40	464.01	464.51	463.65	465.35
14	465.35	465.83	464.99	463.95	464.53	464.92	468.60	465.40	463.55	464.97	463.60	464.45
15	465.37	465.87	464.95	464.65	464.60	464.39	468.85	465.44	463.87	464.98	463.37	464.61
16	465.37	464.76	464.45	465.73	464.65	464.78	468.70	465.45	464.01	464.72	463.20	464.99
17	465.25	464.87	464.68	465.90	464.70	464.75	468.95	465.27	464.01	464.73	463.38	464.90
18	465.45	465.60	465.09	465.90	464.35	465.75	469.15	465.28	463.96	464.53	463.55	465.03
19	464.70	465.68	465.29	465.91	464.49	464.70	469.10	465.29	463.93	464.49	463.55	464.98
20	464.63	465.75	465.55	465.20	465.50	464.95	468.65	465.40	463.93	464.28	463.50	465.17
21	465.36	465.80	465.50	465.40	465.41	465.28	468.50	465.40	463.45	464.72	463.51	464.56
22	465.50	465.71	465.53	465.39	465.38	465.63	468.25	465.44	463.84	464.58	463.73	464.25
23	465.53	464.86	464.47	465.32	465.40	465.40	468.13	465.50	463.78	464.34	463.53	464.74
24	465.59	465.07	464.64	465.29	465.40	465.43	467.00	464.38	463.71	464.26	463.59	464.79
25	465.33	465.71	465.26	465.48	465.00	465.45	467.90	464.33	463.57	464.23	464.17	464.39
26	464.53	465.86	465.25	465.85	465.05	465.40	.....	464.08	463.47	463.89	464.18	464.11
27	464.50	465.90	465.35	465.60	465.03	465.40	467.50	464.00	463.44	463.84	464.23	464.73
28	465.48	465.82	465.29	465.88	464.85	465.83	467.50	463.98	463.33	463.77	463.23	464.36
29	464.59	.....	465.17	466.00	464.63	466.60	467.00	463.93	463.43	463.81	463.55	464.60
30	464.61	.....	464.18	465.78	464.75	466.83	467.40	463.83	463.46	463.75	463.41	464.85
31	464.77	.....	464.05	.....	464.89	.....	466.54	462.38	.....	463.74	.....	464.98
1914												
1	465.31	464.55	465.10	464.00	465.80	465.37	465.20	465.70	465.50	465.90	465.00	465.75
2	465.32	464.88	465.23	464.00	466.45	465.82	465.05	465.00	465.80	465.90	465.10	466.00
3	465.24	465.40	465.35	464.05	466.57	465.65	465.45	465.05	466.80	465.70	465.95	465.85
4	464.67	465.62	465.30	464.00	467.01	465.52	464.77	465.65	466.80	464.55	466.10	465.80
5	464.76	465.50	465.19	463.31	467.25	465.40	463.55	465.72	466.80	464.30	466.03	465.75
6	465.04	465.75	465.10	463.80	467.35	465.32	464.95	465.70	464.95	465.55	465.90	464.55
7	465.05	465.80	465.08	463.97	467.20	464.62	465.80	465.82	463.10	465.65	466.00	464.20
8	465.00	465.39	464.40	464.00	467.05	464.70	465.80	465.80	463.65	465.72	464.85	465.45
9	464.94	465.00	464.57	464.10	466.75	465.60	465.97	465.05	465.50	465.70	464.85	465.75
10	465.06	465.70	464.90	464.03	466.10	466.75	465.90	464.90	465.60	465.75	465.87	465.95
11	464.61	465.80	465.07	464.20	465.85	467.35	465.82	465.62	465.60	464.50	465.95	466.03
12	464.98	465.88	464.92	463.99	465.95	467.27	465.15	465.70	465.60	464.95	465.90	466.18
13	465.39	465.92	464.85	463.61	465.75	467.12	465.95	465.70	464.85	465.90	465.75	465.40
14	465.32	465.94	464.79	463.92	465.60	466.10	467.55	465.70	464.65	466.10	465.70	465.45
15	465.10	465.33	464.27	464.02	465.40	465.52	467.95	465.70	465.70	465.85	464.60	466.38
16	464.93	465.58	464.39	464.10	465.30	465.92	467.82	464.72	465.80	465.80	464.65	466.58
17	465.05	465.87	464.45	464.30	464.75	465.85	467.50	464.55	465.90	465.85	465.85	466.45
18	464.52	465.85	464.65	464.67	464.80	465.65	467.30	465.55	465.90	464.90	465.95	466.40
19	464.04	465.91	464.61	464.46	465.05	465.55	466.15	465.60	466.00	464.15	466.60	466.40
20	464.74	465.92	464.60	464.95	465.72	465.45	466.35	465.67	465.20	465.90	466.80	465.20
21	465.27	465.82	464.51	465.20	466.90	464.65	466.60	465.70	465.00	465.95	466.90	464.40
22	465.40	465.06	463.90	465.02	466.95	464.55	466.90	465.65	465.85	465.95	466.20	466.25
23	465.34	465.46	464.20	464.98	466.70	465.07	467.15	464.85	465.90	466.10	466.00	466.50
24	465.51	465.67	464.32	464.90	466.07	465.25	466.95	464.70	466.00	466.00	466.70	466.80
25	464.75	465.75	464.15	464.80	465.95	465.25	466.90	465.50	466.00	464.97	466.60	464.10
26	464.09	465.65	464.25	464.70	466.10	465.30	466.60	465.65	466.05	465.20	466.40	462.35
27	464.86	465.62	464.25	464.75	466.97	465.15	466.50	465.70	465.30	465.95	466.05	463.45
28	465.54	465.63	464.25	464.77	466.92	464.45	466.70	465.70	464.80	466.10	465.25	464.85
29	465.85	.....	463.79	465.04	466.25	464.32	466.70	465.70	465.75	466.20	464.60	466.10
30	465.80	.....	463.80	465.50	466.30	465.25	466.30	464.80	465.85	466.10	464.05	466.85
31	465.50	.....	464.00	.....	465.57	.....	466.00	464.65	.....	466.00	.....	466.80

These records correspond to the certified copy of April 3, 1915, as furnished by the Department of Public Works, Canada, and are plotted on the graphs of water levels. The following additional corrections were certified to on May 17th, 1915. (Engrs.)

1913 Feb. 9	464.99	1913 May 5	464.15	1914 May 27	465.97	1914 Oct. 19	464.65
April 20	465.05	Nov. 30	463.61	May 28	465.92	Dec. 28	464.95

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. &amp; O.) GAUGE—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1.	466-70	465-30	463-90	463-08	464-30	463-50	468-55	465-35	464-32	464-70	463-72	466-02
2.	466-70	465-75	464-70	464-00	464-18	463-88	467-95	464-53	464-27	464-55	464-15	466-23
3.	465-40	465-60	464-88	464-18	464-18	463-90	467-16	465-32	464-60	463-63	464-22	466-42
4.	465-10	465-45	464-78	463-48	464-45	463-95	466-58	465-47	464-90	463-57	464-70	466-38
5.	466-35	465-50	464-75	463-68	464-60	463-90	465-60	465-50	463-35	464-52	464-37	464-88
6.	466-40	465-40	464-68	464-33	464-48	464-13	465-97	465-40	461-97	464-63	464-35	464-68
7.	466-40	464-75	463-50	464-25	464-58	464-23	466-55	465-33	463-27	464-07	463-27	465-72
8.	466-40	464-45	463-85	464-38	463-95	464-35	465-62	465-13	464-40	464-80	463-60	465-77
9.	466-45	465-35	464-60	464-43	463-60	464-58	466-20	465-22	464-50	464-80	464-28	465-72
10.	465-33	465-43	464-08	464-45	464-65	464-68	465-82	465-25	464-48	463-70	464-35	465-77
11.	464-90	465-43	464-13	463-48	465-45	464-83	465-60	465-30	464-48	464-00	464-48	466-13
12.	466-10	465-48	464-30	463-40	465-78	465-13	465-33	465-32	464-22	464-68	464-75	465-43
13.	466-30	465-15	464-25	464-20	465-80	465-73	465-62	465-40	463-63	464-60	464-67	465-63
14.	466-20	464-98	463-25	464-55	465-75	467-50	465-48	465-37	464-27	464-28	463-28	466-73
15.	466-00	464-55	463-65	464-73	465-10	468-55	465-48	465-12	464-48	464-28	463-98	467-00
16.	466-00	465-10	464-10	464-78	464-78	465-70	465-32	464-77	464-45	463-78	463-95	467-02
17.	465-83	465-15	464-00	464-83	465-23	468-83	465-07	464-80	464-42	463-13	463-88	466-55
18.	466-30	465-00	463-78	463-63	466-00	469-05	465-25	464-87	464-65	463-18	464-30	466-58
19.	466-00	465-10	464-23	463-43	466-88	468-85	464-60	464-90	463-23	463-80	464-38	466-18
20.	466-00	465-05	464-20	464-48	467-15	468-15	465-27	464-87	464-15	463-97	464-22	465-83
21.	466-15	464-60	463-40	464-65	466-98	467-45	465-23	464-85	464-62	464-10	463-27	466-37
22.	466-30	465-50	463-43	464-70	465-93	466-95	465-12	464-50	464-48	464-20	463-97	466-48
23.	466-30	464-73	463-98	464-70	465-33	466-38	464-77	464-72	464-35	463-70	464-62	466-30
24.	466-20	464-75	463-98	464-13	464-70	466-25	464-85	464-80	464-80	463-18	464-68	466-32
25.	466-15	464-65	464-33	463-13	464-70	466-18	465-03	464-75	464-92	463-73	464-62	464-55
26.	466-50	464-63	464-75	464-03	464-05	466-10	465-22	464-77	463-50	464-17	464-68	463-27
27.	466-40	464-70	464-53	464-43	464-65	466-38	465-32	464-80	463-78	464-20	464-68	465-20
28.	466-40	463-40	463-90	465-00	464-70	467-38	465-57	464-80	464-33	464-30	464-20	466-42
29.	466-40	.....	463-00	464-90	463-80	468-25	465-52	464-33	464-48	464-33	464-08	466-47
30.	466-50	.....	464-18	464-90	463-50	468-88	465-68	464-13	464-72	464-32	465-68	466-48
31.	466-00	.....	464-18	.....	463-18	.....	465-68	464-33	.....	463-10	.....	466-52
1916												
1.	466-58	466-98	467-25	465-70	471-52	475-83	475-33	466-64	466-44	466-27	466-22	467-50
2.	466-13	467-20	467-25	465-10	471-82	476-25	475-44	466-30	466-12	466-07	466-28	467-50
3.	465-65	467-22	467-25	465-13	471-90	476-43	475-45	466-40	465-80	466-60	466-25	465-88
4.	466-28	467-23	467-43	465-75	471-67	476-47	474-78	466-64	464-65	466-37	466-28	465-68
5.	466-75	467-11	466-52	465-83	471-78	476-45	475-08	466-74	465-37	466-12	465-57	466-82
6.	466-80	466-81	466-20	465-85	471-92	476-55	474-55	466-24	466-39	466-10	465-50	466-95
7.	467-13	465-90	466-95	465-90	471-90	476-48	473-99	466-40	466-37	466-05	466-32	467-02
8.	467-08	467-27	467-03	465-90	471-38	476-45	473-67	466-44	466-45	465-28	466-32	467-12
9.	466-15	467-45	467-07	464-30	472-08	476-45	473-55	466-50	466-49	465-42	466-38	467-20
10.	466-13	467-48	467-00	464-27	472-27	476-28	473-43	466-57	466-09	466-08	466-37	467-10
11.	467-18	467-40	466-97	465-77	472-32	476-20	473-12	466-60	465-90	466-10	466-32	466-20
12.	467-42	467-25	466-47	465-98	472-18	476-20	472-82	466-90	466-09	466-10	464-93	467-48
13.	467-40	466-73	465-78	466-22	472-47	476-15	472-50	467-14	466-14	466-08	464-95	467-65
14.	467-47	466-73	466-70	466-70	472-52	476-10	472-57	467-29	466-14	466-10	465-87	467-80
15.	466-80	467-38	466-95	468-10	472-36	476-12	472-32	467-59	466-17	465-57	466-20	468-00
16.	465-93	467-55	466-88	468-48	472-52	476-10	471-72	467-62	466-42	465-22	466-20	467-93
17.	466-42	467-43	467-03	468-85	473-05	476-07	471-55	467-59	465-82	465-87	466-22	466-58
18.	467-20	467-58	467-13	470-45	473-52	475-97	471-20	467-62	465-94	465-93	466-07	466-92
19.	467-38	467-70	466-45	472-40	473-73	475-82	470-80	467-54	466-24	465-95	465-13	467-60
20.	467-40	466-58	465-60	472-15	473-80	475-67	470-52	466-80	464-40	465-98	464-85	467-65
21.	466-93	466-41	466-28	472-15	473-85	475-53	470-07	467-09	464-10	465-98	466-15	467-70
22.	466-80	467-03	466-35	472-03	474-05	475-42	469-75	467-49	465-35	465-73	464-38	467-95
23.	466-48	467-13	466-32	471-92	474-37	475-43	469-40	467-30	466-35	465-47	463-63	468-08
24.	466-03	467-13	466-33	471-67	474-47	475-37	468-77	466-49	466-12	465-92	465-22	467-80
25.	466-58	467-11	466-32	472-20	474-47	475-53	468-75	466-54	466-15	466-05	466-65	465-07
26.	466-87	467-08	465-68	472-35	474-78	475-67	468-65	466-72	466-52	466-07	466-27	465-17
27.	466-97	466-70	465-33	472-37	475-02	475-73	468-62	465-65	466-45	466-10	466-90	467-43
28.	467-12	466-43	465-98	472-15	475-35	475-80	468-68	466-15	466-42	466-05	467-47	467-85
29.	467-02	467-00	466-17	472-08	475-83	475-60	467-95	466-60	466-47	465-57	467-50	467-25
30.	466-62	.....	466-00	471-52	475-82	475-58	468-12	466-60	466-80	465-30	467-47	467-73
31.	466-35	.....	465-67	.....	475-55	.....	467-47	466-60	.....	465-13	.....	467-55

Records to 1915 correspond to the certified copy of April 3rd, 1915, as furnished by the Department of Public Works, Canada, and are platted on the graphs of water levels.

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. & O.) GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1	466-32	468-22	468-65	465-28	466-65	465-80	465-08	465-60	464-70	462-57	463-25	464-35
2	467-77	468-25	468-70	465-55	466-75	465-80	464-30	465-60	464-27	463-45	463-50	464-98
3	467-88	468-25	468-65	465-87	466-72	463-85	464-83	465-60	462-43	463-42	463-27	465-55
4	467-95	467-30	467-93	465-90	466-68	465-43	464-20	465-55	463-57	463-47	462-97	465-83
5	467-98	466-90	467-67	465-90	466-62	465-70	465-10	463-57	464-53	463-35	462-67	465-38
6	468-00	468-07	468-18	465-87	466-20	465-70	465-48	465-18	464-60	463-50	461-92	464-83
7	467-60	468-10	468-00	465-85	466-47	465-70	465-53	465-22	464-60	462-93	462-83	465-45
8	466-83	468-15	467-85	465-22	466-45	465-73	464-92	465-55	464-53	463-17	462-83	465-55
9	467-78	468-18	467-70	465-37	466-52	465-75	465-40	465-57	404-40	463-73	462-87	464-83
10	468-00	468-20	467-63	465-83	466-47	464-73	465-60	465-50	464-60	463-65	462-90	464-00
11	468-00	467-40	466-85	465-97	466-45	465-10	465-65	464-55	464-52	463-50	462-67	464-13
12	468-00	467-30	467-38	466-48	466-42	465-20	465-65	464-82	464-13	463-55	462-85	464-48
13	468-03	468-07	467-20	466-98	465-92	464-55	465-67	464-97	464-05	463-57	462-95	464-97
14	467-45	468-10	467-22	467-43	466-13	465-43	465-60	465-55	464-02	462-00	462-80	464-20
15	467-17	468-10	467-30	465-93	466-45	463-50	465-28	464-90	464-10	463-30	462-77	464-17
16	467-90	468-03	467-20	465-83	466-22	463-92	465-48	464-86	464-08	463-50	462-73	464-07
17	468-10	468-20	467-22	466-23	466-27	463-52	465-50	464-63	464-07	463-67	462-82	464-30
18	468-00	467-30	466-67	466-27	466-17	463-48	465-50	464-77	464-10	463-50	461-30	464-83
19	468-05	467-10	466-55	466-30	466-10	462-85	465-50	464-48	464-07	461-67	462-32	464-97
20	468-03	468-28	466-90	466-40	465-43	464-45	465-50	465-03	464-00	459-87	463-43	464-93
21	467-67	468-37	466-87	466-60	465-72	465-47	465-52	465-10	463-85	461-17	464-05	464-70
22	467-00	468-55	466-78	466-62	465-98	465-67	464-82	465-13	463-82	462-40	463-58	464-68
23	467-90	468-60	466-68	467-00	465-90	465-75	465-18	465-07	462-87	463-10	463-82	464-62
24	468-05	468-60	466-60	467-05	465-90	465-37	465-55	465-18	463-60	463-58	463-98	464-75
25	468-20	467-67	465-72	466-92	465-93	465-37	465-58	465-05	463-60	463-72	464-13	462-46
26	468-18	467-75	465-68	466-85	465-87	465-58	465-50	464-33	463-47	463-68	464-22	462-87
27	468-10	468-47	465-85	466-67	464-23	465-60	465-57	464-95	463-50	463-80	464-18	464-86
28	467-60	468-62	466-08	466-55	465-62	465-50	465-55	465-07	463-50	463-63	464-08	464-83
29	466-98	.....	466-15	466-20	465-73	465-50	464-88	465-02	463-50	463-63	463-93	465-13
30	468-00	.....	466-15	466-52	465-73	465-50	465-42	464-97	462-32	463-80	464-00	465-43
31	468-13	.....	466-10	.....	465-80	.....	465-57	465-00	.....	463-72	.....	465-17
1918												
1	465-10	464-00	463-88	462-27	463-27	463-87	461-23	464-07	463-70	463-27	463-35	465-07
2	465-40	463-97	463-85	462-50	463-93	463-71	461-63	464-03	462-13	463-40	463-37	465-33
3	465-50	462-78	463-58	462-50	464-07	463-25	461-73	464-07	463-23	463-65	462-87	465-63
4	465-42	462-62	463-57	462-50	463-85	463-38	461-83	463-47	463-20	463-68	462-93	465-80
5	465-00	463-92	463-80	462-50	463-43	463-45	461-97	463-37	464-43	463-20	462-87	466-13
6	464-97	464-00	464-00	462-40	463-07	463-50	463-50	463-90	464-53	463-17	462-87	466-13
7	465-07	464-00	463-95	461-97	463-27	463-55	462-45	464-02	464-13	463-67	462-33	466-08
8	464-60	464-10	463-90	462-07	463-63	463-71	462-47	464-13	463-03	463-57	462-40	465-33
9	465-37	464-03	463-85	462-30	463-90	462-20	462-88	464-27	463-43	463-83	463-33	464-33
10	465-17	462-90	463-70	462-38	464-00	463-15	462-95	464-67	464-10	464-17	463-00	465-25
11	464-65	462-52	463-57	462-30	463-90	463-40	463-08	464-23	464-00	464-52	463-10	465-47
12	464-83	463-90	463-67	462-30	463-13	463-01	463-42	463-82	464-30	464-63	463-00	465-33
13	464-77	463-75	463-53	462-30	462-85	463-08	463-17	464-63	464-48	464-20	463-00	465-45
14	464-85	463-33	463-53	462-28	462-83	462-43	462-23	464-87	464-48	463-17	462-93	465-30
15	464-40	463-30	463-55	462-32	462-72	462-90	462-22	464-97	464-05	463-90	463-32	465-20
16	464-28	463-30	463-43	462-20	462-80	461-13	462-47	464-93	464-17	464-17	463-27	464-87
17	464-13	463-25	463-32	462-23	462-70	462-23	462-67	464-77	464-08	464-17	462-60	465-22
18	463-47	463-50	463-28	462-20	462-65	462-60	462-08	463-02	463-63	464-53	462-83	465-10
19	463-97	463-83	463-02	462-37	462-10	462-80	463-23	463-90	463-60	464-37	463-00	465-00
20	464-35	463-70	462-88	462-80	462-13	462-91	463-57	465-03	463-82	463-40	462-97	464-73
21	464-22	463-90	463-08	461-67	462-40	463-01	463-48	464-20	463-87	463-50	463-00	464-20
22	464-17	463-83	463-02	462-42	462-70	462-78	463-90	463-53	463-63	464-13	462-98	463-20
23	463-90	463-80	463-03	462-20	462-60	462-17	463-92	464-72	463-80	464-43	463-20	464-13
24	463-85	463-75	462-57	462-27	462-77	462-35	463-90	464-53	463-63	464-70	463-17	464-03
25	464-00	463-67	462-40	462-30	463-03	462-70	463-83	463-17	463-78	464-73	462-78	460-77
26	463-97	463-97	462-42	462-18	462-77	462-50	464-10	463-63	463-78	464-00	462-95	462-77
27	463-70	464-00	462-78	462-35	462-88	462-83	464-25	463-83	463-73	463-13	463-58	464-87
28	463-17	463-87	462-78	461-22	463-20	463-03	464-17	464-87	463-67	462-80	462-27	465-10
29	463-95	.....	462-53	462-10	463-20	462-93	463-03	464-57	463-10	463-13	462-87	464-63
30	463-90	.....	462-65	462-53	463-27	462-50	463-90	464-65	463-57	463-28	463-77	464-80
31	464-00	.....	462-37	.....	463-47	.....	463-97	464-65	.....	463-32	.....	465-30

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. & O.) GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1	465-17	465-80	466-25	463-65	464-40	462-63	464-40	465-60	462-27	465-55	465-02	465-83
2	465-43	463-83	465-77	463-38	464-47	463-67	465-17	465-83	463-47	465-67	464-80	466-13
3	465-43	465-00	465-50	463-20	464-55	463-52	468-53	464-83	465-35	465-63	464-37	466-20
4	465-87	465-68	466-33	462-93	464-00	462-40	469-93	465-20	465-62	465-63	464-83	466-17
5	465-20	466-00	466-15	462-93	464-43	464-83	469-58	465-90	465-30	464-83	464-83	466-13
6	464-47	466-08	466-28	463-12	464-47	465-63	469-53	465-90	464-90	464-53	465-00	466-08
7	464-67	466-12	465-78	463-53	464-50	465-75	469-60	465-73	464-33	465-30	465-07	464-73
8	464-67	465-98	465-53	463-50	464-90	464-63	468-97	465-87	465-17	465-57	465-08	465-30
9	465-37	465-17	464-93	464-12	465-30	463-67	467-45	465-77	465-37	465-17	463-83	465-52
10	465-50	465-20	464-80	464-20	465-28	464-80	467-27	464-17	465-30	465-37	464-50	465-65
11	465-83	465-30	465-17	464-20	464-83	464-50	467-82	465-37	465-10	464-93	464-47	466-00
12	464-87	465-40	465-00	464-17	462-62	465-57	468-47	465-97	465-10	464-37	466-00	466-03
13	465-37	465-48	465-63	464-10	461-00	465-40	468-10	466-07	465-08	464-77	467-40	466-10
14	465-50	465-37	465-77	464-53	460-53	465-27	467-70	466-03	464-47	465-17	467-85	464-10
15	465-40	465-23	465-28	464-47	460-67	464-57	467-20	466-35	464-80	465-33	467-80	465-40
16	465-93	464-07	463-87	464-40	460-37	464-83	466-70	466-40	465-32	465-42	466-80	465-93
17	465-73	464-23	463-93	464-33	460-50	465-37	466-30	465-77	465-17	465-17	466-37	465-93
18	465-77	464-80	463-78	464-30	460-47	465-60	466-20	466-18	465-13	465-37	466-80	465-87
19	464-70	465-35	463-47	464-02	460-42	465-50	465-73	465-23	465-35	464-60	466-47	465-97
20	464-63	465-33	463-47	463-70	460-45	465-50	465-73	466-50	465-22	464-23	465-97	465-90
21	465-07	465-43	463-40	464-10	460-47	465-62	466-17	466-57	464-37	465-20	465-90	464-80
22	465-17	465-37	463-30	464-40	460-45	464-53	466-37	466-37	464-87	465-30	466-07	465-80
23	465-47	463-67	463-27	464-43	462-33	464-40	466-28	466-25	465-25	465-30	464-67	465-77
24	465-30	464-37	463-92	464-47	463-90	465-37	466-20	465-23	465-43	465-25	465-30	465-17
25	465-10	465-90	463-20	464-20	463-73	466-07	465-90	465-50	465-50	465-13	465-77	462-80
26	464-03	466-43	462-98	464-47	464-10	466-30	465-78	466-03	465-57	463-43	466-10	463-63
27	464-73	466-43	463-42	463-73	464-27	466-30	465-27	466-00	465-37	463-93	466-13	464-90
28	465-03	466-72	463-52	464-42	464-43	466-35	464-80	466-05	463-97	464-67	466-30	464-43
29	465-68	.....	463-48	464-53	464-70	465-43	465-60	466-07	464-87	464-93	466-40	464-53
30	465-70	.....	463-23	464-27	464-70	465-17	465-87	466-05	465-47	464-80	465-80	465-20
31	465-73	.....	463-48	.....	464-90	.....	465-70	465-30	.....	465-00	.....	465-33
1920												
1	465-47	465-10	465-20	466-67	466-63	466-20	470-80	468-93	465-80	464-10	463-80	463-90
2	465-12	466-07	466-57	466-70	464-70	467-13	471-00	467-43	465-90	464-20	464-50	463-93
3	466-03	466-40	466-85	467-25	465-10	468-13	470-80	467-03	465-93	463-67	464-73	463-93
4	465-17	466-30	466-85	466-87	465-77	468-43	470-77	466-77	465-80	463-67	464-80	463-80
5	465-46	466-43	466-83	466-80	465-90	468-28	470-80	466-20	463-43	464-10	465-00	462-80
6	465-66	466-60	466-70	466-87	465-83	467-30	470-90	465-90	464-40	454-10	464-42	462-87
7	465-67	466-37	466-13	466-67	465-67	467-07	470-07	465-87	464-73	464-17	463-87	463-17
8	465-73	465-00	466-13	466-50	465-57	467-50	468-73	465-30	465-50	464-20	463-83	463-17
9	465-54	465-27	466-53	466-23	464-20	467-38	467-85	465-37	465-50	464-23	464-42	463-20
10	465-77	466-33	466-53	465-97	465-07	467-40	467-65	465-93	465-33	463-07	464-67	463-23
11	465-03	466-40	466-60	464-73	465-50	467-33	467-37	466-13	465-20	463-63	464-63	463-03
12	465-98	466-60	466-37	464-50	465-50	467-40	467-17	466-90	464-27	464-20	464-50	462-27
13	466-07	466-60	466-47	465-60	465-50	467-00	467-70	466-73	464-07	464-20	464-67	462-87
14	466-03	466-60	465-80	465-67	465-50	466-33	466-37	466-30	464-73	464-20	463-53	463-53
15	466-00	465-53	465-73	465-68	465-50	466-70	468-53	466-70	464-80	464-20	464-00	463-90
16	465-77	465-45	466-00	465-47	463-93	466-60	469-07	465-37	464-80	464-07	464-37	464-40
17	466-17	466-70	465-93	465-47	464-90	466-60	469-17	466-07	464-80	463-17	464-50	464-53
18	465-03	466-70	465-90	465-20	465-47	466-52	468-13	466-07	464-80	463-43	464-50	464-00
19	465-77	466-60	465-70	465-63	465-47	466-42	467-93	465-90	464-00	463-70	464-50	463-33
20	466-17	466-53	465-67	466-40	465-37	466-00	467-40	465-70	464-03	463-63	464-47	464-03
21	466-50	466-40	464-80	466-50	465-30	466-40	467-07	465-57	464-80	463-90	463-67	464-20
22	468-42	465-47	464-80	466-65	465-33	468-80	466-75	464-73	464-80	463-72	463-47	464-20
23	466-43	465-57	465-20	467-03	464-87	466-83	466-77	465-27	464-73	463-70	464-27	464-20
24	466-27	466-57	465-53	467-40	464-93	467-37	467-40	465-60	464-80	462-93	464-20	464-40
25	465-77	466-60	465-33	466-33	465-53	467-98	467-20	465-70	464-33	463-80	464-20	462-27
26	465-93	466-73	465-57	466-87	465-80	468-77	467-30	465-63	462-97	464-00	464-23	461-80
27	466-45	466-93	465-53	467-17	466-03	469-13	467-53	465-67	463-13	464-47	464-50	463-13
28	466-73	466-93	465-63	467-07	466-07	470-00	467-60	465-63	464-20	464-80	462-93	464-40
29	466-80	466-33	466-07	466-87	465-57	470-30	468-97	464-83	464-00	464-80	463-63	464-80
30	466-90	.....	466-40	466-80	464-87	470-47	469-38	464-93	464-20	464-67	464-00	464-80
31	466-90	.....	466-50	465-07	.....	.....	469-45	465-80	.....	463-57	.....	464-80

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. & O.) GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D.P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1.....	464.47	465.63	465.67	465.22	464.06	463.54	463.70	463.93	463.00	463.30	463.73	464.60
2.....	464.07	465.80	466.13	465.10	463.60	464.40	463.67	464.50	462.90	462.53	463.93	464.87
3.....	464.35	465.83	466.50	464.63	463.80	464.80	463.27	464.40	462.70	463.33	463.77	464.70
4.....	464.83	465.90	466.47	464.53	463.93	465.50	462.23	464.35	462.73	464.03	464.00	463.13
5.....	465.50	465.70	466.50	465.22	463.95	465.50	463.02	464.40	463.50	464.07	463.93	464.07
6.....	464.40	463.93	465.00	465.70	463.80	465.30	463.97	464.30	463.43	463.78	463.80	464.60
7.....	464.43	462.40	464.77	467.03	463.73	465.00	464.40	462.87	463.27	463.40	463.55	464.60
8.....	464.23	463.20	465.70	468.63	463.60	465.00	464.70	463.40	463.07	463.10	463.50	464.77
9.....	464.03	463.50	466.30	470.35	463.60	465.00	464.80	464.35	463.93	462.67	463.90	464.50
10.....	464.80	463.03	466.20	469.30	463.60	464.97	463.63	464.20	464.05	462.70	463.90	464.77
11.....	465.60	463.20	466.20	468.17	463.60	464.40	464.40	463.97	463.60	463.00	464.07	463.03
12.....	465.73	462.50	466.23	467.38	463.60	464.04	464.90	463.67	463.63	463.00	464.30	463.93
13.....	465.80	462.17	464.67	466.90	463.60	464.00	465.00	463.60	464.17	463.00	462.28	464.60
14.....	465.80	462.37	464.72	466.57	463.70	463.87	465.20	463.60	464.60	463.00	463.60	464.70
15.....	465.80	462.93	465.70	466.35	463.70	463.80	465.17	463.20	464.80	463.00	464.27	464.77
16.....	464.70	463.07	465.80	466.20	463.90	463.80	465.07	463.37	465.10	462.47	464.30	465.03
17.....	464.87	463.43	465.70	465.27	464.70	463.80	463.20	463.27	465.20	462.87	464.50	465.00
18.....	465.67	463.60	465.50	465.57	464.70	463.75	464.23	463.40	464.53	463.00	464.50	463.67
19.....	465.80	463.50	465.40	465.80	464.60	463.70	464.60	463.27	463.95	463.17	464.13	464.55
20.....	466.00	463.03	463.70	465.40	464.60	463.70	464.60	463.00	464.50	463.07	462.87	465.10
21.....	466.00	462.43	465.20	465.43	464.70	463.70	464.70	462.67	464.80	463.45	464.50	465.60
22.....	466.02	463.37	465.20	465.40	464.70	463.60	464.63	462.53	464.57	463.47	465.53	466.20
23.....	464.80	463.60	465.20	465.40	464.70	463.60	464.30	463.23	464.50	462.57	465.47	466.50
24.....	465.20	463.60	465.40	464.87	464.36	463.50	463.13	462.93	464.33	463.37	465.37	466.53
25.....	465.83	463.33	465.50	464.90	463.80	463.40	463.70	462.97	463.20	463.87	465.57	462.97
26.....	465.87	463.20	465.40	465.58	463.53	463.30	464.53	462.94	463.30	464.13	465.47	464.17
27.....	465.90	462.80	464.17	466.00	463.50	463.20	464.60	463.00	464.20	463.80	464.20	465.70
28.....	466.30	464.57	465.53	466.13	463.50	463.20	464.63	463.10	464.07	463.80	464.33	466.00
29.....	466.30	.....	465.90	466.03	463.50	463.20	464.50	463.33	463.70	463.83	464.70	466.27
30.....	465.07	.....	465.87	466.00	463.40	463.64	464.83	463.33	463.57	462.83	464.93	466.17
31.....	465.30	.....	.....	.....	463.40	.....	464.10	463.00	.....	463.17	.....	466.03
1922												
1.....	464.83	466.50	466.73	465.20	466.07	465.68	465.00	464.77	465.20	463.20	464.30	464.45
2.....	465.03	466.66	466.87	463.17	466.30	465.80	463.80	464.73	465.30	464.20	464.20	464.87
3.....	465.80	466.73	467.07	463.00	466.30	465.83	465.60	464.73	463.33	464.53	464.35	463.57
4.....	466.07	466.73	467.07	463.70	466.30	465.17	463.60	464.70	462.47	464.50	464.40	465.03
5.....	466.03	464.80	465.27	463.70	466.30	465.32	465.00	464.80	462.67	464.50	463.37	466.87
6.....	466.07	464.93	465.57	463.80	466.40	465.90	465.40	463.30	464.80	464.30	464.00	466.75
7.....	465.97	465.63	466.50	463.90	465.78	465.90	465.65	463.97	465.33	464.30	464.50	466.77
8.....	464.13	465.80	466.50	464.03	465.60	465.93	465.50	464.80	465.10	463.17	464.60	466.70
9.....	464.67	465.90	466.60	462.60	466.00	465.98	464.00	464.75	465.10	464.00	464.75	466.30
10.....	465.00	465.66	466.50	463.57	466.15	466.05	465.00	464.75	464.07	464.20	464.60	464.50
11.....	465.20	466.43	466.20	465.20	466.80	464.97	465.30	464.93	464.13	464.30	464.70	465.20
12.....	465.20	465.47	464.50	466.00	467.03	465.10	465.50	464.97	464.50	464.30	463.17	466.20
13.....	465.10	464.73	465.30	466.50	467.30	465.47	465.45	463.43	464.50	464.20	464.07	466.20
14.....	464.87	465.46	465.73	467.20	466.30	465.60	465.70	464.80	464.50	464.10	464.65	466.30
15.....	464.00	465.63	465.60	467.30	465.17	465.50	465.70	464.90	464.50	463.20	464.37	466.40
16.....	463.83	466.17	465.37	466.17	463.73	465.55	464.00	464.90	464.50	463.73	464.55	466.40
17.....	465.60	466.17	465.33	468.00	466.50	465.75	465.30	464.93	463.93	464.42	464.60	464.90
18.....	466.00	466.17	465.23	469.73	466.50	465.13	465.60	465.00	463.70	464.28	464.50	466.00
19.....	465.70	464.83	463.60	469.70	466.60	465.50	465.40	465.12	464.10	464.35	463.17	466.20
20.....	465.60	465.53	463.73	469.35	466.60	466.23	465.60	464.00	464.47	464.40	463.87	466.40
21.....	465.70	466.50	465.00	468.70	466.17	465.97	465.40	464.67	464.50	464.10	464.50	466.43
22.....	465.03	466.60	464.90	468.00	465.47	465.90	465.40	464.90	464.60	463.00	464.43	466.80
23.....	464.82	466.60	464.97	467.00	466.17	465.90	463.70	464.80	464.60	463.47	464.60	466.60
24.....	466.20	466.87	464.97	467.10	466.00	465.90	465.00	464.90	463.27	464.00	464.60	465.33
25.....	466.13	466.76	464.72	467.50	466.03	464.93	465.50	465.40	464.30	464.35	464.33	463.20
26.....	466.30	465.50	463.33	467.43	466.17	465.23	465.50	465.40	464.50	464.35	463.43	464.43
27.....	466.10	465.60	463.80	467.47	466.00	465.90	465.20	464.17	464.40	464.35	463.73	466.10
28.....	466.40	466.60	465.93	467.40	464.63	465.90	465.20	464.27	464.40	464.23	464.40	466.60
29.....	465.30	.....	465.73	467.27	464.86	466.00	465.20	464.92	464.40	463.07	464.45	466.40
30.....	464.97	.....	465.50	465.90	465.80	466.00	464.30	465.20	464.50	463.93	464.30	466.20
31.....	466.20	.....	465.40	.....	465.73	.....	464.70	465.23	.....	464.20	.....	464.77



WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. & O.) GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1.....	465-07	466-75	466-20	465-10	465-70	463-80	464-13	464-00	463-35	462-87	461-85	461-90
2.....	466-00	466-60	466-10	464-76	464-10	463-80	463-90	464-00	462-53	463-10	461-85	462-30
3.....	466-20	467-00	466-35	464-80	463-70	463-33	464-07	464-27	461-00	463-15	461-95	462-20
4.....	466-50	465-53	465-53	464-70	464-70	463-75	462-66	464-00	462-00	463-10	462-00	462-10
5.....	466-60	466-27	466-40	464-50	466-20	463-75	462-80	463-03	463-10	463-20	462-02	462-10
6.....	466-50	466-50	466-40	464-47	465-90	463-70	464-15	463-90	463-30	463-30	462-20	462-10
7.....	465-07	466-50	466-40	464-10	465-85	463-70	464-10	463-90	463-25	462-50	462-10	462-00
8.....	465-60	466-90	466-40	462-70	465-30	463-70	462-26	463-90	463-30	462-93	462-10	462-10
9.....	466-20	467-00	466-50	464-00	465-00	463-60	463-60	463-85	462-70	463-10	461-95	462-25
10.....	466-23	467-00	466-70	464-00	464-85	462-77	463-97	463-85	463-10	463-10	461-85	462-40
11.....	466-35	466-73	465-66	463-80	464-60	463-53	464-20	463-85	463-20	463-10	461-80	462-50
12.....	466-40	466-70	466-20	463-60	464-40	463-70	464-10	463-50	463-20	463-25	461-95	462-60
13.....	466-40	467-20	466-20	463-60	464-27	463-78	463-97	463-73	463-10	463-10	462-00	463-25
14.....	465-33	467-40	466-20	463-55	464-60	463-78	464-00	463-80	463-20	463-55	461-85	463-40
15.....	465-66	467-15	466-00	463-45	464-47	463-80	463-33	463-60	463-30	463-70	461-80	463-60
16.....	466-40	467-00	466-10	463-00	464-30	463-40	463-53	463-40	463-10	463-95	461-90	463-42
17.....	466-40	466-70	465-85	463-10	464-20	463-30	464-00	463-50	463-23	463-50	461-90	463-10
18.....	466-50	466-65	464-47	463-53	463-90	463-57	464-00	463-30	463-20	461-90	461-90	463-25
19.....	466-70	466-70	464-27	464-00	463-70	464-10	464-00	463-00	463-15	461-90	461-90	463-10
20.....	466-60	466-78	464-80	464-70	463-85	463-90	464-40	463-00	463-05	461-90	461-90	462-90
21.....	465-63	466-90	464-60	466-80	464-20	464-00	464-00	463-33	463-20	461-70	462-00	462-70
22.....	465-93	466-90	464-30	467-75	464-20	464-02	463-48	463-40	463-20	462-00	461-95	462-85
23.....	466-50	467-10	464-10	468-05	464-30	465-28	464-00	463-35	463-10	461-80	461-90	462-85
24.....	466-55	467-40	464-40	468-20	464-00	465-10	464-25	463-35	462-70	462-00	461-95	462-10
25.....	466-60	466-66	464-63	468-30	463-90	465-35	464-10	463-35	463-15	461-92	461-95	461-90
26.....	466-60	466-73	465-20	468-20	463-90	465-50	464-10	462-93	463-15	462-00	461-90	462-00
27.....	466-85	466-90	465-40	467-80	463-23	465-35	464-00	463-10	463-00	462-00	461-80	463-25
28.....	466-00	466-65	465-60	467-40	463-60	464-20	464-00	463-30	463-00	462-00	461-90	463-55
29.....	466-43	.....	465-50	467-25	463-90	464-20	463-60	463-30	463-00	461-80	461-85	463-40
30.....	466-60	.....	465-20	466-83	463-90	464-90	463-80	463-30	463-00	462-00	461-85	463-55
31.....	466-70	.....	465-07	.....	463-90	.....	464-00	463-30	.....	462-00	.....	463-45
1924												
1.....	464-00	463-60	462-50	462-10	462-25	461-65	462-23	462-40	462-62	462-30	462-00	463-15
2.....	464-00	463-40	462-07	462-10	462-20	461-70	462-40	462-40	462-40	462-20	461-80	463-15
3.....	464-15	462-50	461-70	462-05	462-20	461-80	462-40	462-35	462-55	462-05	461-93	463-00
4.....	464-15	462-00	462-10	461-40	462-05	461-70	461-97	462-15	462-50	462-25	461-95	463-10
5.....	464-20	462-70	462-25	461-90	462-10	461-85	461-65	462-00	462-50	462-50	461-90	463-05
6.....	463-70	462-60	462-30	461-80	462-50	461-80	461-45	461-90	462-30	462-40	461-90	463-00
7.....	463-80	462-85	462-60	461-90	462-50	461-75	461-70	461-70	462-40	462-20	462-10	463-00
8.....	464-00	463-15	462-50	462-00	462-45	461-60	462-10	462-10	462-30	462-08	461-95	463-00
9.....	464-00	462-95	462-02	461-85	462-40	461-70	462-10	462-55	462-25	462-05	461-80	463-00
10.....	464-05	461-95	461-72	462-00	462-40	461-90	462-30	462-00	462-20	462-10	461-80	463-00
11.....	464-10	462-20	462-10	462-00	462-10	461-90	462-20	462-50	462-10	461-95	462-07	462-85
12.....	464-15	462-90	462-10	462-15	461-90	461-90	462-10	462-75	462-20	462-36	462-50	462-85
13.....	464-00	463-15	462-20	462-13	462-00	461-90	462-00	462-85	462-10	463-60	462-30	462-85
14.....	463-25	463-10	462-20	462-05	462-00	461-90	462-20	462-90	462-10	464-40	462-40	463-02
15.....	463-20	462-85	462-20	461-80	462-10	461-95	462-20	462-53	462-00	464-40	462-30	463-10
16.....	463-45	463-00	461-93	461-95	462-10	462-00	462-20	462-30	461-85	463-90	462-10	463-17
17.....	463-60	462-17	461-72	462-10	462-00	462-00	462-15	462-30	461-90	463-50	461-90	463-20
18.....	463-20	462-20	462-00	462-22	461-85	462-05	462-10	462-20	461-90	463-10	462-00	463-35
19.....	463-75	463-00	462-00	462-10	461-85	462-32	462-00	462-25	462-00	462-60	461-90	463-55
20.....	463-40	463-00	461-95	462-05	461-95	462-70	461-90	462-30	461-90	462-45	462-00	463-55
21.....	463-25	462-90	461-90	461-85	462-10	462-75	462-10	462-30	462-10	462-30	461-90	463-65
22.....	463-55	462-85	461-90	462-05	462-10	462-70	462-20	462-30	462-15	462-10	461-85	463-65
23.....	463-90	462-90	461-67	462-10	462-00	462-80	462-20	462-40	462-00	462-00	462-00	463-55
24.....	463-60	462-15	461-48	462-05	461-95	462-95	462-20	462-20	462-05	462-20	462-20	463-60
25.....	463-60	461-87	461-85	462-10	461-70	462-90	462-25	462-25	462-20	462-40	462-98	462-70
26.....	463-65	462-50	461-90	462-00	461-80	462-80	462-10	462-30	462-25	462-20	462-80	462-70
27.....	463-30	462-60	462-00	461-80	461-90	462-80	462-10	462-35	462-15	462-16	462-65	463-60
28.....	463-33	462-62	462-00	461-93	462-10	462-70	462-30	462-25	462-30	462-30	463-30	463-50
29.....	463-65	462-60	461-80	462-25	461-80	462-50	462-30	462-73	462-50	462-40	463-25	463-60
30.....	463-80	.....	461-80	462-35	461-70	462-50	462-25	462-25	462-45	462-20	463-10	463-85
31.....	463-80	.....	462-00	.....	461-80	.....	462-40	463-12	.....	462-10	.....	463-80

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. & O.) GAUGE—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1.....	463-70	463-65	463-98	464-15	466-30	463-60	464-80	464-35	463-10	464-25	463-60	464-30
2.....	463-80	463-75	464-15	464-05	466-15	464-00	465-30	463-80	463-10	465-50	463-67	464-20
3.....	463-70	463-75	464-05	463-80	465-60	464-10	465-60	464-20	463-40	466-00	464-10	464-00
4.....	463-55	463-70	463-85	463-80	465-50	464-30	464-73	464-70	463-20	465-20	464-00	463-90
5.....	463-50	463-45	463-80	463-70	465-20	464-40	464-20	464-80	463-20	465-20	464-20	464-10
6.....	463-35	463-45	463-66	463-65	464-90	464-80	464-00	464-86	463-20	465-45	464-50	463-80
7.....	463-45	463-40	463-66	463-55	464-70	464-30	465-40	464-80	463-30	465-25	465-00	463-80
8.....	463-40	463-40	463-50	463-45	464-50	464-98	465-55	464-80	463-80	465-10	464-62	464-10
9.....	463-40	463-50	463-35	463-35	464-40	465-20	465-40	464-30	464-30	464-90	464-56	464-26
10.....	463-40	463-60	463-50	463-30	464-08	465-40	465-40	463-80	464-40	465-00	464-75	464-70
11.....	463-40	463-60	463-85	463-30	463-60	465-35	465-20	463-40	464-40	464-30	464-70	464-90
12.....	463-50	463-60	463-60	463-07	463-95	465-10	464-72	464-50	464-60	464-20	464-50	464-80
13.....	463-55	463-40	463-55	463-10	463-90	465-00	464-50	464-55	464-00	464-60	464-40	464-40
14.....	463-50	463-45	463-58	463-25	463-90	465-00	465-30	464-55	464-37	464-50	464-20	464-46
15.....	463-50	463-55	463-65	463-25	463-90	464-80	465-40	464-55	464-55	464-50	463-80	464-70
16.....	463-85	463-70	463-70	463-12	463-53	465-30	465-35	463-80	464-60	464-50	463-70	464-60
17.....	464-15	463-60	463-93	462-90	463-35	465-25	465-10	463-62	464-60	464-55	463-90	464-60
18.....	463-95	463-60	463-95	462-80	463-53	465-15	465-20	464-30	464-50	464-00	464-00	464-65
19.....	463-70	463-50	463-90	462-90	463-90	465-25	464-45	464-35	464-45	464-00	463-90	464-65
20.....	463-50	463-50	463-85	462-80	463-85	465-20	464-60	464-30	463-97	464-35	463-90	464-06
21.....	463-45	463-60	463-70	462-70	463-85	464-50	465-20	464-40	464-20	464-30	463-85	464-30
22.....	463-55	463-60	463-80	462-80	463-63	464-00	465-40	464-40	464-60	464-30	463-60	464-65
23.....	463-45	463-70	463-80	463-27	463-43	464-70	465-40	463-80	464-70	464-25	463-86	464-70
24.....	463-40	463-80	463-66	464-50	463-20	464-85	465-33	463-67	464-70	464-23	464-25	464-60
25.....	463-43	463-75	463-95	465-00	463-30	464-90	465-10	464-30	464-70	463-66	464-30	464-15
26.....	463-65	463-75	464-00	464-85	463-80	464-90	463-90	464-40	464-60	463-90	464-30	464-16
27.....	463-50	463-85	464-00	464-80	463-80	465-05	463-50	464-45	463-80	464-25	464-65	464-06
28.....	463-50	463-85	464-10	464-65	463-80	464-50	464-40	464-50	463-90	464-20	464-90	464-80
29.....	463-55	.....	463-90	464-80	463-80	464-60	464-10	464-50	464-20	464-00	463-93	465-13
30.....	463-55	.....	464-00	465-03	463-90	465-40	464-10	463-40	464-30	463-90	464-13	464-95
31.....	463-55	.....	464-10	.....	463-50	.....	464-35	462-80	.....	463-80	.....	465-25
1926												
1.....	465-15	465-00	464-76	464-53	464-10	464-20	463-70	465-33	465-90	466-35	469-10	470-50
2.....	465-15	465-70	465-35	464-40	463-50	464-10	463-65	464-82	466-00	466-57	469-80	470-40
3.....	464-58	465-75	465-25	464-40	463-80	464-15	463-90	465-40	465-95	466-10	469-80	470-40
4.....	464-50	465-70	465-10	464-00	464-00	464-20	463-30	465-50	466-00	465-97	469-86	470-40
5.....	464-75	465-40	465-10	463-90	463-85	463-88	463-52	465-55	465-00	466-85	469-75	469-87
6.....	464-73	465-20	465-00	464-20	464-00	463-55	463-92	465-15	463-33	467-55	469-53	469-80
7.....	464-90	465-00	465-00	464-20	463-95	463-66	464-20	465-15	464-52	468-00	468-83	470-10
8.....	464-90	465-10	465-35	464-20	463-95	463-90	464-05	464-78	466-30	468-05	468-50	470-00
9.....	464-90	465-50	465-35	464-20	463-48	464-00	464-30	464-95	466-35	467-70	468-12	470-10
10.....	464-60	465-60	465-20	464-25	463-63	463-90	464-90	465-50	466-30	467-00	468-70	469-93
11.....	464-80	464-50	465-15	464-10	464-00	463-90	464-75	465-40	466-20	466-56	467-40	469-85
12.....	465-15	465-40	465-25	464-06	463-95	463-80	465-28	465-45	465-70	467-00	467-40	469-63
13.....	464-90	465-45	465-30	464-33	463-90	463-53	465-80	465-50	464-65	466-00	467-50	469-70
14.....	464-70	465-10	465-12	464-50	463-95	463-56	465-80	465-50	465-60	466-80	467-50	469-90
15.....	464-70	465-10	465-26	464-62	463-95	463-75	465-65	465-00	465-70	466-90	467-66	469-90
16.....	464-50	465-30	465-50	464-55	463-50	463-80	465-85	464-80	466-00	466-90	468-00	469-88
17.....	464-20	465-55	465-55	464-55	463-53	463-80	465-85	465-65	465-88	466-36	467-90	469-90
18.....	464-60	465-55	465-30	464-40	463-53	463-80	465-60	465-70	465-75	466-46	467-90	469-90
19.....	465-15	465-40	465-20	464-60	463-35	463-85	465-07	465-70	465-20	466-70	468-40	469-50
20.....	465-40	465-30	464-90	464-90	463-25	464-05	465-97	465-80	465-03	467-03	469-28	469-50
21.....	465-28	465-12	464-33	465-10	463-25	464-96	466-00	465-90	465-50	467-75	470-30	469-60
22.....	465-10	465-00	464-33	464-60	463-30	466-60	465-95	465-60	465-60	468-00	471-50	469-80
23.....	465-15	465-10	464-80	464-40	462-93	467-25	465-95	465-75	465-75	468-40	471-66	469-80
24.....	465-00	465-05	464-85	464-30	463-16	467-30	465-95	466-15	466-90	468-66	471-13	469-90
25.....	465-10	464-90	464-70	463-76	463-80	466-90	465-18	466-20	467-00	469-26	470-70	469-66
26.....	465-50	464-75	464-75	464-03	464-06	466-60	465-10	466-20	466-43	469-50	470-80	466-53
27.....	465-65	464-90	464-90	464-25	464-73	466-00	465-80	466-20	466-46	469-28	470-66	468-86
28.....	465-65	464-70	464-32	464-30	464-70	465-00	465-50	466-10	467-00	468-43	470-20	469-60
29.....	465-35	.....	464-40	464-25	464-60	464-70	465-50	465-00	466-83	468-30	470-40	469-80
30.....	465-20	.....	464-70	464-20	464-30	464-50	465-50	465-00	466-50	468-90	470-30	469-80
31.....	465-00	.....	464-90	.....	464-00	.....	465-60	465-80	.....	468-76	.....	469-70

## WATER LEVELS—RAINY RIVER—FORT FRANCES, ONTARIO, LOWER (M. &amp; O.) GAUGE—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1	469.65	468.06	468.40	466.30	473.20	475.00	474.60	470.40	466.00	465.50	465.80	467.20
2	469.20	468.35	469.10	466.40	473.36	475.23	474.80	470.40	466.40	463.75	466.00	466.80
3	469.10	468.30	469.20	465.33	473.76	475.30	474.70	469.96	466.83	464.93	466.10	466.50
4	468.60	468.30	469.03	466.20	473.73	475.40	474.70	469.10	466.96	465.50	466.20	465.3 7
5	468.30	468.30	468.90	466.50	474.60	475.00	474.50	468.60	468.10	465.50	466.00	465.80
6	468.10	467.45	468.22	466.75	474.83	475.33	474.30	467.70	467.48	465.70	465.03	466.50
7	468.10	468.00	468.43	466.90	474.80	475.30	474.20	467.50	466.20	465.80	465.45	467.40
8	467.70	468.20	469.00	467.20	474.50	475.10	474.00	468.30	466.20	465.80	465.90	467.60
9	467.33	468.33	469.10	467.36	474.46	475.00	474.30	468.43	466.00	464.00	466.00	467.80
10	467.53	468.20	469.00	467.40	475.06	475.20	473.80	468.10	466.15	465.63	465.90	468.10
11	467.32	468.10	469.00	467.70	475.30	475.00	474.00	468.26	464.80	465.90	465.60	466.13
12	468.00	468.30	468.90	468.42	475.40	475.00	474.00	468.60	465.50	465.85	466.20	467.07
13	468.30	467.82	468.62	468.43	475.30	474.93	474.00	468.90	466.20	466.00	464.63	467.90
14	468.25	467.60	468.70	469.56	475.16	474.80	474.00	468.56	466.00	465.90	465.47	467.80
15	468.15	467.93	468.35	471.13	474.93	474.80	474.17	468.80	465.70	466.00	465.70	467.90
16	467.80	468.20	468.30	472.70	475.30	474.66	474.50	468.40	465.90	464.50	464.83	468.00
17	478.00	468.40	467.60	474.00	475.20	474.60	474.30	468.00	465.70	465.33	466.90	467.80
18	478.25	468.50	467.40	474.03	475.20	474.03	474.15	468.10	464.50	465.90	467.40	466.67
19	478.40	468.40	467.30	474.60	475.20	474.33	474.10	468.10	465.03	465.90	467.70	467.33
20	478.45	467.92	466.42	475.30	475.20	474.30	473.80	468.00	465.60	466.00	465.80	467.70
21	478.50	467.80	466.57	475.43	475.00	474.40	473.80	467.00	465.70	466.00	467.20	467.90
22	478.50	468.00	466.50	475.53	475.00	475.20	473.80	466.66	465.70	466.00	467.70	467.70
23	478.03	468.10	466.50	475.17	475.00	475.50	473.70	466.60	465.50	465.00	467.90	467.80
24	467.96	468.10	406.50	474.26	475.20	475.50	473.65	465.80	465.60	465.10	468.00	467.33
25	468.45	468.10	466.40	473.30	475.60	475.20	473.55	465.60	464.50	465.00	467.80	463.00
26	468.45	468.15	466.40	473.06	475.80	475.20	473.26	465.70	465.16	466.00	467.40	463.40
27	468.35	467.96	465.78	472.90	476.10	475.03	472.75	465.80	465.50	466.00	465.50	466.40
28	467.86	467.76	465.70	472.80	476.00	474.80	471.00	465.80	465.40	465.46	466.40	467.80
29	468.30	.....	466.20	473.10	476.00	474.70	471.00	465.80	465.50	465.46	466.80	467.80
30	467.52	.....	466.30	473.30	475.66	474.60	470.60	466.10	465.50	463.80	467.40	467.80
31	467.42	.....	466.15	.....	475.73	.....	470.30	466.10	.....	465.34	.....	467.80

WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN.—U.S.G.S. GAUGE ON DOCK

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1.					-0.31	2.30	0.64	2.55	2.71	1.60	1.58	3.30
2.					0.55	2.24	-0.50	2.54	2.70	0.95	1.69	3.25
3.					0.68	2.24	-1.00	2.70	2.70	1.70	1.50	2.80
4.					0.62	0.85	-1.00	2.65	2.36	1.85	1.25	2.66
5.					0.64	0.85	0.35	2.45	2.46	1.85	0.68	3.14
6.					0.64	2.60	0.78	1.35	2.64	1.90	1.00	3.08
7.					-0.01	2.68	0.70	2.35	2.54	1.75	1.35	2.94
8.					-0.13	2.66	0.75	2.60	2.60	1.32	1.32	2.96
9.					0.72	2.62	0.55	2.64	2.50	1.08	1.40	3.09
10.					0.94	3.20	0.60	2.74	2.36	1.38	1.68	2.45
11.					1.66	1.20	0.90	2.85	2.40	1.84	1.25	2.12
12.					1.60	2.65	0.65	2.84	2.40	1.89	2.16	2.60
13.					0.95	3.90	0.70	0.62	2.36	1.88	2.69	2.65
14.					-0.27	4.04	0.74	2.55	2.36	1.69	3.01	2.65
15.					0.76	4.12	0.90	2.85	2.40	0.95	3.20	2.58
16.					1.22	3.98	0.30	2.74	2.09	1.00	3.18	2.48
17.					2.11	3.15	0.61	2.74	1.35	1.58	3.22	1.98
18.				1.26	1.51	1.00	0.64	2.94	1.21	1.78	3.25	1.52
19.				1.01	1.98	1.24	0.53	2.80	2.00	1.89	1.60	2.42
20.				1.08	1.92	2.66	-0.04	1.95	2.15	2.04	2.31	2.56
21.				0.95	-0.25	2.90	-0.08	2.40	2.00	1.75	3.25	2.50
22.				0.94	1.06	2.84	-0.08	2.74	1.72	1.19	3.35	2.48
23.				0.30	2.06	2.38		2.74	2.01	1.00	3.35	2.41
24.				0.52	2.16	1.80		2.92	1.25	1.05	3.50	0.95
25.				0.58	2.18	1.80	0.72	2.72	0.61	1.75	3.68	0.10
26.				0.40	1.85	1.61	2.11	2.88	1.70	1.84	3.08	1.85
27.				0.30	2.13	1.70	2.31	1.92	1.70	1.92	2.10	3.38
28.				0.16	-0.01	1.65	2.52	2.40	1.82	1.84	3.08	3.65
29.				0.04	0.78	1.49	2.68	2.55	1.90	1.48	3.22	3.70
30.				-0.29	2.10	0.75	0.31	2.71	1.92	0.90	3.28	3.48
31.					2.26		1.41	2.70		1.40		2.55
1912												
1.	1.7	3.1	3.1	1.4	3.0	2.6	1.7	4.6	2.4	3.4	2.8	2.8
2.	3.0	3.6	3.1	1.8	2.9	2.2	2.0	4.7	2.1	3.3	2.8	3.6
3.	3.4	3.9	2.5	1.8	2.8	2.5	2.0	4.7	2.5	3.2	2.2	4.0
4.	3.4	3.0	2.4	1.85	3.0	2.5	1.65	4.2	3.5	3.1	2.1	4.0
5.	3.4	2.8	3.0	1.7	2.4	2.5	1.8	4.1	3.6	3.2	2.9	4.0
6.	3.4	3.3	3.0	1.6	2.5	2.5	2.0	4.3	3.8	2.7	2.9	4.0
7.	3.0	3.5	2.9	0.55	3.5	2.5	1.55	4.5	3.6	2.8	2.9	3.8
8.	2.5	3.4	3.0	1.1	3.9	2.4	1.9	4.4	3.4	2.9	2.9	3.4
9.	3.4	3.4	3.1	1.7	3.8	2.1	1.6	4.3	3.4	3.0	2.8	3.4
10.	3.7	3.3	2.4	2.0	4.0	2.2	2.8	4.3	3.7	3.0	2.2	4.3
11.	3.8	2.8	2.2	2.0	3.9	2.4	3.3	3.8	3.6	3.0	2.2	4.4
12.	4.1	2.8	2.8	2.0	3.1	2.4	3.2	3.6	3.4	3.1	2.6	4.5
13.	4.2	3.4	2.7	2.0	2.8	2.3	3.3	3.5	3.4	2.5	2.8	4.5
14.	2.0	3.4	2.7	1.5	3.7	2.3	2.9	3.5	3.4	2.8	2.8	4.4
15.	3.1	3.3	2.8	1.3	3.9	2.2	3.0	3.4	2.8	2.9	2.8	3.6
16.	3.7	3.2	2.6	2.1	3.9	1.9	3.6	2.7	3.0	2.9	2.7	3.4
17.	3.9	3.0	1.8	1.9	3.8	2.0	3.8	3.0	3.2	2.8	2.2	4.2
18.	3.8	2.3	1.7	1.85	3.6	2.1	3.4	2.9	3.0	2.8	2.4	4.3
19.	3.9	2.1	2.2	1.85	2.6	2.1	2.7	3.1	2.7	2.9	2.8	4.4
20.	4.0	2.7	2.6	1.9	2.5	2.2	3.2	3.5	2.7	2.5	2.8	4.4
21.	3.2	2.9	2.6	1.05	3.3	2.2	3.6	3.3	2.4	2.2	3.0	4.2
22.	3.0	2.9	2.7	0.9	3.2	2.4	3.6	2.8	2.3	2.7	2.9	3.3
23.	3.8	2.9	2.6	1.75	3.2	2.0	3.8	2.6	2.3	2.8	2.8	3.2
24.	3.9	2.8	1.7	1.9	3.3	2.0	3.9	2.7	2.6	2.8	2.8	3.4
25.	3.8	2.2	1.9	2.0	3.0	2.2	3.9	2.3	3.2	2.8	2.3	3.0
26.	3.8	2.4	2.2	2.2	1.9	2.0	3.9	2.6	4.4	2.8	2.7	2.8
27.	3.6	3.0	2.3	2.4	2.1	2.0	3.9	2.4	4.0	2.1	2.8	3.5
28.	2.7	3.1	2.2	1.9	2.7	1.9	3.8	2.6	3.5	2.1	2.8	3.2
29.	2.3	3.1	2.0	1.9	2.7	1.9	4.6	2.6	3.2	2.7	2.8	3.2
30.	3.2		1.9	2.8	2.6	1.5	4.6	2.8	3.4	2.8	2.7	3.1
31.	3.2		1.3		2.6		4.6	2.7		2.8		3.8

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN.—U.S.G.S. GAUGE ON DOCK

—Concluded

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1.....	3.9	4.8	4.8	3.5	4.5	3.8	6.1	5.2	1.7	2.5	2.7	2.8
2.....	3.9	3.8	4.1	3.2	4.3	3.8	6.2	5.2	2.7	2.5	2.5	3.4
3.....	4.0	3.7	4.0	3.0	4.2	4.3	6.4	4.9	2.8	2.4	2.6	3.6
4.....	4.2	4.6	4.9	3.2	3.9	4.2	6.0	4.7	2.9	2.3	2.8	3.3
5.....	3.2	4.8	4.9	3.1	4.4	4.0	5.6	4.4	2.9	2.3	2.8	3.0
6.....	3.2	4.8	5.0	2.4	4.7	4.2	6.2	4.4	2.9	2.5	2.8	3.2
7.....	4.1	4.8	5.0	2.1	4.8	4.4	6.3	4.7	2.8	3.0	2.7	2.8
8.....	4.2	4.7	4.9	2.8	4.7	4.6	6.2	4.9	3.0	3.3	2.7	.....
9.....	4.2	4.2	4.6	3.1	4.5	4.9	6.3	4.9	3.0	3.5	2.0	.....
10.....	4.3	4.1	3.9	3.0	4.2	4.9	6.8	4.2	3.0	3.6	1.8	4.8
11.....	4.5	4.8	4.4	3.1	3.6	4.6	7.0	4.3	3.0	4.0	2.5	4.6
12.....	3.7	4.8	4.3	3.2	3.6	4.3	7.2	4.6	3.1	3.7	2.6	4.5
13.....	3.6	4.9	4.2	2.7	3.7	4.1	7.3	4.6	3.1	3.6	2.7	4.4
14.....	4.3	4.9	4.1	2.8	3.6	4.0	7.6	4.5	2.6	4.0	2.7	3.6
15.....	4.4	4.9	4.6	4.1	3.6	3.7	7.8	4.5	2.6	4.0	2.7	3.6
16.....	4.4	4.2	3.5	4.8	3.7	3.9	7.7	4.5	3.0	3.9	2.2	4.1
17.....	4.4	3.9	3.6	4.9	4.1	3.9	8.2	4.2	3.0	3.7	2.3	4.0
18.....	4.5	4.7	4.2	5.0	4.4	3.9	8.4	4.3	2.9	3.6	2.6	4.0
19.....	3.6	4.8	4.5	5.0	4.6	3.8	8.4	4.5	2.9	2.8	2.6	4.1
20.....	3.6	4.8	4.7	4.4	4.7	4.0	7.9	4.6	2.9	3.3	2.6	4.3
21.....	4.4	4.8	4.6	4.3	4.5	4.3	7.6	4.6	2.7	3.4	2.5	4.1
22.....	4.6	4.8	4.6	4.4	4.4	4.4	7.5	4.6	2.7	3.4	2.8	3.3
23.....	4.6	4.4	3.8	4.3	4.5	4.4	7.3	4.6	2.7	3.3	2.5	3.8
24.....	4.7	4.1	3.6	4.3	4.6	4.5	7.3	4.1	2.6	3.3	2.8	3.9
25.....	4.6	4.8	4.3	4.5	4.2	4.6	7.2	3.6	2.6	3.3	3.2	3.4
26.....	4.0	5.0	4.4	4.9	4.0	4.6	7.0	3.2	2.6	2.0	3.3	3.4
27.....	3.6	5.0	4.4	4.7	4.1	4.6	6.7	3.0	2.5	2.9	3.3	3.8
28.....	4.5	4.9	4.3	4.9	3.9	4.9	6.7	3.0	2.4	2.8	3.3	3.5
29.....	4.7	.....	4.2	5.0	3.7	5.7	6.7	2.9	2.5	2.8	3.1	3.6
30.....	4.6	.....	3.2	4.8	3.7	6.0	6.2	2.8	2.5	2.8	2.6	3.9
31.....	4.8	.....	2.9	.....	4.1	.....	5.7	1.7	.....	2.8	.....	4.1
1914												
1.....	4.3	3.9	4.2	3.1	5.0	4.6	4.1	4.8	.....	.....	.....	.....
2.....	4.4	3.8	4.2	3.1	5.4	4.8	4.1	4.0	.....	.....	.....	.....
3.....	4.3	4.6	4.4	3.1	5.6	4.7	4.4	4.1	.....	.....	.....	.....
4.....	3.7	4.8	4.2	3.1	6.0	4.5	3.7	4.7	.....	.....	.....	.....
5.....	3.6	4.8	4.3	2.6	6.3	4.4	2.6	4.8	.....	.....	.....	.....
6.....	4.2	4.9	4.2	2.7	6.3	4.3	3.7	4.8	.....	.....	.....	.....
7.....	4.1	5.0	4.1	3.0	6.2	3.5	4.8	4.9	.....	.....	.....	.....
8.....	4.0	4.7	3.5	3.1	6.0	3.8	4.7	4.8	.....	.....	.....	.....
9.....	4.0	4.5	3.6	3.1	5.8	4.6	4.9	3.9	.....	.....	.....	.....
10.....	4.1	4.8	4.0	3.1	5.0	5.9	4.8	4.2	.....	.....	.....	.....
11.....	3.5	4.9	4.0	3.2	4.9	6.3	4.9	4.7	.....	.....	.....	.....
12.....	4.1	5.1	4.0	2.5	4.9	6.2	4.2	4.8	.....	.....	.....	.....
13.....	4.5	5.0	3.9	2.7	4.8	6.1	4.8	4.8	.....	.....	.....	.....
14.....	4.4	5.0	3.8	3.0	4.6	5.3	6.5	4.8	.....	.....	.....	.....
15.....	4.3	4.5	2.8	3.1	4.4	4.5	6.9	4.8	.....	.....	.....	.....
16.....	4.0	4.7	3.4	3.2	4.2	4.9	6.8	4.4	.....	.....	.....	.....
17.....	4.1	4.9	3.6	3.3	3.8	4.8	6.5	3.6	.....	.....	.....	.....
18.....	3.5	4.9	3.6	3.8	3.8	4.8	6.3	4.6	.....	.....	.....	.....
19.....	3.1	5.0	3.6	3.6	4.0	4.5	5.6	4.7	.....	.....	.....	.....
20.....	3.6	5.0	3.6	4.0	4.7	4.4	5.4	4.7	.....	.....	.....	.....
21.....	4.3	4.9	3.5	4.3	5.8	3.4	5.7	4.7	.....	.....	.....	.....
22.....	4.5	4.3	3.0	4.1	6.0	3.5	6.0	4.6	.....	.....	.....	.....
23.....	4.4	4.4	3.1	4.1	5.8	4.0	6.2	3.8	.....	.....	.....	.....
24.....	4.5	4.8	3.4	4.0	5.0	4.1	6.0	4.0	.....	.....	.....	.....
25.....	4.0	4.8	3.3	4.1	5.0	4.2	6.0	(*)	.....	.....	.....	.....
26.....	3.7	4.8	3.3	3.9	5.1	4.2	5.6	.....	.....	.....	.....	.....
27.....	4.4	4.7	3.3	3.8	5.0	4.1	5.6	.....	.....	.....	.....	.....
28.....	4.5	4.4	3.2	3.9	4.9	3.5	5.8	.....	.....	.....	.....	.....
29.....	.....	.....	2.7	4.1	5.2	3.4	5.8	.....	.....	.....	.....	.....
30.....	5.0	.....	2.9	4.6	5.3	4.2	5.4	.....	.....	.....	.....	.....
31.....	4.6	.....	3.1	.....	4.4	.....	5.1	.....	.....	.....	.....	.....

\*Readings discontinued.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK  
—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1									463-45	462-25	462-30	464-09
2									463-42	461-74	462-28	464-06
3									463-35	462-47	462-25	463-44
4									463-14	462-81	461-93	463-57
5									463-21	462-65	461-41	463-89
6									463-38	462-65	461-84	463-83
7									463-30	462-47	462-13	463-70
8									463-39	462-11	462-06	463-72
9									463-22	461-91	462-16	463-85
10									463-07	462-14	462-38	463-07
11									463-17	462-57	461-99	463-00
12									463-16	462-62	462-96	463-37
13									463-13	462-65	463-55	463-37
14									463-12	463-36	463-84	463-35
15								463-56	463-22	461-68	463-97	963-32
16								463-53	462-96	461-72	464-02	463-30
17								463-47	462-12	462-29	464-01	462-65
18								463-64	462-07		464-01	462-37
19								463-51	462-78	462-63	462-19	463-20
20								462-04	462-97	462-82	463-20	463-28
21								462-73	462-81	462-47	463-99	463-26
22								463-51	462-74	461-85	464-09	
23								463-59	462-76	461-84	464-10	
24								463-71	462-02	461-93	464-22	461-71
25								463-58	461-99	462-51	464-50	460-86
26								463-56	462-36	462-61	463-56	462-61
27								462-64	462-35	462-60	462-94	464-13
28								462-87	462-64	462-53	463-92	464-41
29								463-54	462-63	461-87	464-02	464-46
30								463-44	462-68	461-70	464-05	464-23
31								463-46		462-15		463-31
1912												
1	462-48	463-97	463-88	462-17	463-67	463-38	462-42	465-41	462-95	463-67	463-67	463-28
2	463-81	464-46	463-93	462-54	463-63	462-51	462-78	465-43	462-76	463-54	463-62	464-48
3	464-11	464-68	463-18	462-55	463-61	463-30	462-91	465-49	463-46	463-57	463-06	464-63
4	464-21	463-30	463-26	462-46	463-74	462-21	462-77	464-91	464-24	463-90	462-72	464-74
5	464-15	463-64	463-75	462-43	463-05	463-34	462-65	464-94	464-39	463-88	463-56	464-62
6	464-21	464-13	463-76	462-36	463-41	463-22	462-63	465-04	464-63	463-48	463-69	464-72
7		464-25	463-72	461-31	464-23	463-21	461-99	465-20	464-25	463-65	463-66	464-44
8	463-34	464-24	463-87	461-71	464-53	463-08	462-90	465-10	464-22	463-56	463-73	464-18
9	464-37	464-19	463-87	462-57	464-55	462-81	463-35	465-05	464-28	463-72	468-54	464-49
10	464-52	464-05	463-15	462-72	464-71	463-02	463-57	465-02	464-45	463-80	463-05	465-02
11	464-64	463-09	463-02	462-71	464-61	463-10	464-00	464-92	464-43	463-76	463-31	465-14
12	464-86	463-51	463-48	462-71	463-75	463-09	463-96	464-91	464-29	463-80	463-25	465-35
13	464-98	463-16	463-48	463-71	463-86	463-04	464-16	464-28	464-20	463-36	463-59	465-27
14	461-93	463-12	463-48	461-71	464-43	463-02	463-63	464-37	464-14	463-58	463-66	464-96
15	464-02	464-01	463-53	462-31	464-55	463-01	464-56	464-11	463-48	463-70	463-52	464-32
16	464-53	463-93	463-38	462-72	464-68	462-50	464-43	463-61	463-42	463-69	463-68	464-19
17	464-63	463-78	462-57	462-68	464-44	462-87	464-57	463-65	463-94	463-65	463-49	464-92
18	464-70	462-97	462-63	462-61	464-27	462-89	464-17	463-70	463-64	463-59	463-41	465-11
19	464-72	462-95	462-86	462-60	463-31	462-90	463-50	463-86	463-44	463-64	463-63	464-94
20	464-75	463-49	463-36	462-58	463-58	462-96	464-47	464-28	463-47	463-28	463-65	465-06
21	463-32	463-61	463-42	461-62	463-93	363-08	464-18	464-13	463-20	462-85	463-78	464-93
22	463-89	463-65	463-49	462-02	463-96	463-11	464-44	463-55	463-00	463-51	463-95	464-38
23	464-62	463-64	463-35	462-51	463-98	462-61	464-56	463-30	463-05	463-56	463-72	463-82
24	464-68	463-53	462-29	462-55	463-98	462-90	464-66	463-43	463-40	463-56	462-89	464-19
25	464-62	462-98	462-69	462-77	463-82	463-01	464-68	463-19	463-52	463-55	463-00	464-15
26	464-56	463-22	463-04	463-03	462-48	462-83	464-67	463-29	465-03	463-56	463-59	463-36
27	464-37	463-76	463-08	463-21	462-89	462-71	464-66	463-18	464-68	462-87	463-58	464-20
28	463-08	463-88	463-00	462-46	463-42	462-80	464-70	463-42	464-27	462-43	463-69	464-51
29	463-27	463-90	462-82	462-81	463-52	462-76	465-39	463-36	463-88	462-69	463-59	463-96
30	463-93		462-69	463-52	463-50	462-41	464-88	463-54	464-12	463-64	463-54	463-77
31	463-90		461-98		463-45		465-41	463-52		463-66		464-52

These records correspond to the certified copy of April 3, 1915, as furnished by the Department of Public Works, Canada and are platted on the graphs of water levels. The following additional corrections were certified to on May 17, 1915. (Engrs.)

1911 Oct. 4 462-56 | 1912 May 30 463-00  
June 2 462-73  
July 20 463-97

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK

—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	464.61	465.56	465.59	464.24	465.35	464.40	466.75	465.98	462.48	463.27	463.54	463.52
2	464.59	464.32	464.86	464.13	465.09	464.64	466.78	466.03	463.49	463.25	463.19	464.16
3	464.76	464.26	465.04	463.77	465.09	465.10	466.94	465.60	463.62	463.17	463.37	464.31
4	464.91	465.32	465.53	463.85	464.76	465.01	466.14	465.73	463.70	462.99	463.55	464.08
5	464.05	465.49	465.62	463.80	463.99	464.86	466.44	465.51	463.74	462.99	463.55	463.75
6	464.34	465.50	465.07	463.04	464.53	464.99	466.79	465.27	463.70	463.31	463.51	463.97
7	464.93	465.60	465.66	463.01	464.50	465.16	466.96	465.35	463.65	463.71	463.49	463.58
8	464.92	465.49	465.65	463.71	465.39	465.21	466.84	465.87	463.87	464.00	463.53	464.99
9	465.05	465.30	464.66	463.85	464.34	465.59	466.74	465.64	463.77	464.23	462.79	465.53
10	465.07	464.46	465.35	463.83	464.93	465.69	467.51	465.46	463.82	464.43	462.52	465.54
11	465.18	465.43	465.17	463.91	464.40	465.46	467.64	465.12	463.96	464.76	462.92	465.44
12	464.37	465.60	465.09	463.96	464.44	465.14	467.74	465.24	463.88	464.53	463.39	465.27
13	464.75	465.58	464.99	463.19	464.50	464.89	468.04	465.24	463.85	464.37	463.49	465.18
14	465.15	465.67	464.78	463.79	464.36	464.75	468.44	465.24	463.39	464.83	463.45	464.29
15	465.19	465.69	464.73	464.49	464.44	464.22	468.69	465.28	463.70	464.83	463.50	464.46
16	465.18	464.57	464.25	465.56	464.54	464.61	468.54	465.29	463.86	464.57	463.54	464.85
17	465.06	464.67	464.47	465.72	464.54	464.59	468.79	465.16	463.88	464.58	463.20	464.76
18	464.26	465.40	464.90	465.74	464.19	465.59	468.99	465.16	463.79	464.38	463.38	464.85
19	464.51	465.47	465.10	465.75	464.28	464.54	468.94	465.13	463.77	464.34	463.36	464.83
20	464.39	465.56	465.35	464.88	465.34	464.79	468.49	465.24	463.77	464.14	463.32	464.99
21	465.17	465.62	465.31	465.24	465.30	465.11	468.34	465.24	463.30	464.56	463.31	464.40
22	465.30	465.51	465.33	465.23	465.22	465.63	468.09	465.27	463.69	464.41	463.57	464.10
23	465.35	464.65	464.30	465.16	465.24	465.24	467.99	465.34	463.58	464.20	463.36	464.58
24	465.40	464.89	464.44	465.13	465.24	465.27	467.84	464.21	463.54	464.10	463.43	464.67
25	465.14	465.51	465.08	465.31	464.84	465.29	467.74	464.16	463.40	464.08	464.00	464.23
26	464.29	465.65	465.08	465.69	464.89	465.24	467.34	463.91	463.30	463.75	464.02	463.95
27	464.31	465.74	465.16	465.44	464.86	465.24	467.34	463.84	463.27	463.69	464.06	464.55
28	465.30	465.62	465.11	465.71	464.69	465.66	467.34	463.81	463.17	463.62	463.06	464.20
29	465.40	465.67	464.99	465.84	464.46	466.44	467.44	463.76	463.26	463.67	463.41	464.44
30	465.42	465.67	463.99	465.61	464.59	466.66	467.24	463.67	463.31	463.60	463.45	464.69
31	465.57	465.67	463.88	464.73	464.73	464.73	466.38	462.26	463.59	463.59	463.59	464.82
1914												
1	465.15	465.15	464.95	463.70	465.60	465.22	465.55	465.60	465.40	465.80	464.90	465.65
2	465.16	465.16	465.07	463.84	466.20	465.67	464.85	464.85	465.70	465.80	465.00	465.90
3	465.08	465.08	465.19	463.85	466.40	465.50	465.25	464.90	465.70	465.60	465.85	465.75
4	464.51	464.51	465.18	463.86	466.85	465.37	464.60	465.52	465.70	464.45	466.00	465.70
5	464.59	465.32	465.01	463.14	467.05	465.25	463.25	465.55	465.70	464.20	465.93	465.65
6	464.86	465.57	465.00	463.64	467.14	465.20	464.72	465.60	464.85	465.45	465.80	464.45
7	464.88	465.63	464.92	463.74	467.10	464.47	465.55	465.65	462.97	465.55	465.90	464.10
8	464.80	464.80	464.64	463.76	466.95	464.52	465.80	465.60	463.55	465.62	464.75	465.35
9	464.77	464.82	464.18	463.91	466.20	465.40	465.75	464.85	463.40	465.60	464.75	465.65
10	464.90	465.52	464.79	463.90	465.95	466.55	465.72	464.72	465.50	465.65	465.80	465.83
11	464.45	465.62	464.84	463.92	465.70	467.20	465.65	465.50	465.50	464.40	465.85	465.93
12	464.82	465.70	464.79	463.83	465.75	467.17	464.92	465.60	465.50	464.85	465.80	466.08
13	465.23	465.23	464.74	463.84	465.55	466.92	465.75	465.60	464.75	465.80	465.65	465.30
14	465.17	465.65	464.74	463.84	465.40	465.95	467.35	465.60	464.55	466.00	465.60	465.35
15	464.95	464.95	464.11	463.84	465.25	465.35	467.72	465.65	464.60	465.75	464.50	466.28
16	464.77	464.77	463.94	463.94	465.15	465.77	467.62	464.62	465.70	465.70	464.55	466.45
17	464.90	465.69	464.24	463.95	464.55	465.70	467.30	464.45	465.80	465.75	465.75	466.35
18	464.36	465.71	464.32	464.09	464.60	465.52	467.20	465.45	465.80	464.80	465.85	466.30
19	463.87	465.74	464.34	464.32	464.85	465.40	465.95	465.50	465.90	464.55	466.50	466.30
20	464.58	464.58	464.36	464.36	465.52	465.25	466.10	465.57	465.10	465.80	466.70	465.10
21	465.11	465.56	464.34	465.04	466.70	464.45	466.40	465.55	464.90	465.85	466.80	464.30
22	465.25	464.89	464.19	464.89	466.75	464.35	466.65	465.52	465.75	465.85	466.10	466.15
23	465.18	464.89	464.09	464.84	466.55	464.90	467.02	464.75	465.80	466.00	465.90	466.40
24	465.35	465.51	464.15	464.15	465.92	465.05	466.85	464.60	465.90	465.90	466.60	466.70
25	464.59	465.65	464.15	464.15	465.75	465.10	466.80	465.40	465.90	464.88	466.50	464.00
26	463.92	465.52	464.14	464.64	465.90	465.15	466.50	465.55	465.95	465.10	466.30	462.25
27	464.70	465.67	464.14	464.64	465.80	465.00	466.30	465.60	465.20	465.85	465.95	463.35
28	465.72	465.72	464.14	464.69	465.72	464.27	466.60	465.60	464.70	466.00	465.15	464.85
29	465.65	465.65	463.92	464.76	466.05	464.20	466.60	465.60	465.65	466.10	464.50	466.00
30	465.60	465.60	463.54	464.83	466.12	465.07	466.20	464.70	465.75	466.00	463.95	466.75
31	465.30	465.30	463.65	463.65	465.42	465.42	465.85	464.55	465.90	465.90	465.90	466.70

These records correspond to the certified copy of April 3, 1915, as furnished by the Department of Public Works, Canada, and are platted on the graphs of water levels. The following additional corrections were certified to on May 17, 1915. (Engrs.)

1913 Jan. 5 464.10  
Jan. 26 464.34

1913 June 22 465.46  
Nov. 16 463.04

1914 May 9 466.60  
July 1 465.05

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK  
—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915*												
1	466-60	465-20	463-80	463-98	464-20	463-40	468-50	465-27	464-15	464-60	463-58	465-88
2	466-60	465-05	464-60	463-90	464-08	463-78	467-88	464-45	464-13	464-47	464-05	466-13
3	465-30	465-50	464-78	464-08	464-08	463-80	467-07	465-23	464-45	463-53	464-20	466-35
4	465-00	465-35	464-68	463-38	464-35	463-85	466-48	465-42	464-77	463-47	464-60	466-25
5	466-25	465-40	464-65	463-58	464-50	463-80	465-48	465-45	463-23	464-40	464-27	464-75
6	466-30	465-30	464-58	464-23	464-38	464-03	465-83	465-27	461-27	464-48	464-25	464-56
7	466-30	464-65	463-40	464-15	464-48	464-13	466-42	465-18	463-18	464-53	463-17	465-60
8	466-30	464-35	463-75	464-28	463-85	464-25	466-27	465-02	464-28	464-70	463-50	465-63
9	466-35	465-25	464-50	464-33	463-50	464-48	466-00	465-10	464-37	464-72	464-18	465-60
10	465-23	465-28	463-98	464-35	464-55	464-58	465-70	465-15	464-35	463-63	464-25	465-67
11	464-80	465-33	464-03	463-38	465-35	464-73	465-47	465-20	464-37	463-87	464-35	466-06
12	466-00	465-38	464-20	463-35	465-08	465-03	465-20	465-17	464-10	464-57	464-60	465-29
13	466-20	465-05	464-15	464-10	465-70	465-63	465-50	465-27	463-57	464-43	464-55	465-51
14	466-10	464-88	463-15	464-45	465-65	467-43	465-35	465-30	464-17	464-15	463-18	466-66
15	465-90	464-45	463-55	464-63	464-55	468-48	465-40	465-03	464-35	464-15	463-77	466-90
16	465-90	465-00	464-00	464-68	464-68	468-63	465-25	464-63	464-32	463-72	463-80	466-85
17	465-75	465-05	463-90	464-73	465-13	468-78	464-95	464-70	464-30	463-03	463-73	466-47
18	465-20	464-90	463-68	463-53	465-90	468-95	465-13	464-75	464-52	463-07	464-18	466-50
19	465-90	465-00	464-13	463-33	466-78	468-80	464-52	464-75	463-13	463-68	464-25	466-05
20	465-90	464-95	464-10	464-38	467-05	468-10	465-13	464-72	464-02	463-85	464-12	465-71
21	466-05	464-50	463-30	464-55	466-88	467-35	465-08	464-75	464-48	463-97	463-15	466-27
22	466-20	463-40	463-33	464-60	465-83	466-88	465-02	464-40	464-35	464-07	463-87	466-39
23	466-20	464-63	463-88	464-60	465-23	466-28	464-67	464-63	464-23	463-63	464-50	466-16
24	466-10	464-65	463-88	464-03	464-60	466-15	464-70	464-75	464-65	463-07	464-57	466-21
25	466-05	464-55	464-23	463-03	464-60	466-08	464-92	464-63	464-80	463-60	464-55	464-44
26	466-40	464-53	464-65	463-93	464-85	466-00	465-08	464-60	463-40	464-05	464-55	463-13
27	466-30	464-60	464-43	464-33	464-55	466-30	465-23	464-65	463-63	464-08	464-57	465-10
28	466-30	464-30	463-80	464-90	464-60	467-28	465-42	464-67	464-23	464-15	464-15	466-32
29	466-30	.....	462-90	464-80	463-70	468-15	465-40	464-27	464-40	464-18	464-05	466-35
30	466-40	.....	464-08	464-80	463-40	468-80	465-53	463-97	464-63	464-17	465-55	466-35
31	465-90	.....	464-08	.....	463-08	.....	465-55	464-20	.....	463-03	.....	466-40
1916												
1	466-47	466-87	467-18	465-60	471-40	475-75	475-27	466-55	466-35	466-20	466-10	467-40
2	466-03	467-10	467-12	465-00	471-67	476-18	475-33	466-25	466-05	465-83	466-15	467-40
3	465-50	467-17	467-12	464-97	471-80	476-35	475-35	466-35	465-60	466-48	466-13	465-75
4	466-20	467-17	467-28	465-67	471-57	476-40	474-65	466-55	464-60	466-33	466-15	465-63
5	466-67	467-06	466-45	465-73	471-65	476-38	475-00	466-68	465-15	465-98	465-50	466-73
6	466-68	466-75	466-08	465-75	471-80	476-43	474-40	466-25	466-28	465-98	466-30	466-80
7	467-05	466-16	466-83	465-78	471-77	476-42	473-87	466-28	466-25	466-90	466-20	466-90
8	466-98	467-11	466-93	465-83	471-23	476-35	473-60	466-35	466-35	465-45	466-20	467-00
9	466-03	467-31	466-97	464-20	471-98	476-35	473-48	466-40	466-33	465-25	466-25	467-15
10	466-02	467-45	466-92	464-15	472-13	476-20	473-30	466-50	466-03	465-98	466-25	466-98
11	467-07	467-35	466-90	465-72	472-20	476-10	474-03	466-53	465-75	466-00	466-25	466-00
12	466-25	467-18	466-35	465-90	472-02	476-12	472-75	466-83	466-00	466-00	465-05	467-35
13	466-27	466-60	465-70	466-15	472-30	476-03	472-55	467-10	466-03	466-00	464-70	467-50
14	466-35	466-65	466-62	466-62	472-37	476-05	472-45	467-20	466-05	466-00	465-75	467-70
15	466-73	467-27	466-87	468-00	472-23	476-03	472-25	467-50	466-10	465-65	466-05	467-90
16	465-80	467-41	466-80	468-40	472-33	475-93	471-63	467-55	466-30	465-08	466-13	467-85
17	466-30	467-36	466-98	468-75	472-93	475-98	471-40	467-50	465-73	465-75	466-10	466-60
18	467-07	467-50	467-03	470-37	473-37	475-85	471-10	467-50	465-83	465-80	466-00	466-70
19	467-28	467-65	466-37	472-33	473-62	475-70	470-67	467-50	466-05	465-80	465-10	467-50
20	467-28	466-60	465-52	472-03	473-62	475-55	470-40	467-30	464-35	465-85	464-48	467-60
21	466-83	466-31	466-20	472-08	473-72	475-40	469-97	466-98	464-00	465-85	466-00	467-60
22	466-72	466-92	466-22	471-93	473-93	475-35	469-45	467-40	465-23	465-63	.....	467-80
23	466-40	467-00	466-25	471-87	474-25	475-0	469-23	467-10	466-30	465-28	463-40	467-95
24	465-97	467-05	466-27	471-55	474-37	475-28	468-63	466-45	466-08	465-80	465-10	467-70
25	466-50	467-02	466-15	472-10	474-40	475-45	468-73	466-43	466-05	465-93	466-50	465-02
26	466-75	467-03	465-63	472-22	474-67	475-60	468-60	466-65	466-40	465-95	466-25	464-80
27	466-83	466-65	465-55	472-25	474-92	475-68	468-50	465-60	466-35	465-95	466-70	467-35
28	467-00	466-33	465-87	472-03	475-23	475-75	468-50	466-05	466-33	465-95	467-40	467-70
29	466-97	466-91	466-10	471-97	475-40	475-50	467-90	466-50	466-40	465-55	467-40	467-20
30	466-55	.....	465-87	471-43	475-43	475-50	468-03	466-55	466-70	465-18	467-40	467-60
31	466-27	.....	465-57	.....	475-43	.....	467-30	466-53	.....	466-03	.....	467-40

\*Records for 1915 reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.



WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK

—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1.	466-03	468-08	468-53	465-30	466-50	465-70	464-90	465-45	464-60	462-35	463-25	464-20
2.	467-65	468-15	468-55	465-40	466-60	465-70	464-25	465-50	464-35	463-33	463-40	464-83
3.	467-68	468-15	468-50	465-75	466-60	463-75	464-65	465-45	462-70	463-35	463-13	465-38
4.	467-80	467-55	467-93	465-80	466-58	465-20	464-25	465-45	463-23	463-35	462-95	465-65
5.	467-88	466-70	467-45	465-80	466-50	465-60	464-93	463-45	464-45	463-23	462-48	465-33
6.	467-90	467-95	468-05	465-75	466-15	465-60	465-40	465-00	464-48	463-35	461-60	464-68
7.	467-50	468-00	467-90	465-75	466-35	465-65	465-35	465-10	464-50	462-80	462-75	465-30
8.	466-60	468-05	467-75	465-05	466-30	465-65	464-90	465-40	464-40	462-03	462-75	465-40
9.	467-65	468-10	467-60	465-15	466-40	465-65	465-23	465-45	464-35	463-55	462-78	464-70
10.	467-90	468-10	467-50	465-70	466-35	464-60	465-45	465-40	464-45	463-53	462-80	463-80
11.	467-90	467-33	466-85	465-90	466-35	465-00	465-50	465-50	464-38	463-35	462-55	464-00
12.	467-90	467-00	467-15	466-30	466-30	465-10	465-55	464-90	464-00	463-40	462-68	464-35
13.	467-90	467-95	467-10	466-90	465-90	464-40	465-55	465-00	463-90	463-45	462-85	464-80
14.	467-45	468-00	467-10	467-20	465-95	463-45	465-45	465-50	463-90	462-20	462-70	464-15
15.	466-90	468-00	467-15	465-88	466-30	463-50	465-20	464-70	464-00	463-20	462-68	464-15
16.	467-75	467-95	467-05	465-65	466-10	463-80	465-40	464-70	463-98	463-38	462-65	464-05
17.	468-00	468-05	467-10	466-10	466-20	463-55	465-35	464-50	463-90	463-55	462-73	464-18
18.	467-95	467-28	466-65	466-15	466-05	463-40	465-35	464-78	464-00	463-40	461-35	464-30
19.	467-98	467-03	466-40	466-15	466-00	462-85	465-40	464-45	463-98	461-53	462-15	464-83
20.	467-95	468-20	466-80	466-30	465-23	464-32	465-40	464-90	463-93	459-83	463-35	464-80
21.	467-55	468-20	466-80	466-50	465-60	465-35	465-35	465-00	463-73	461-08	463-95	464-55
22.	466-80	468-45	466-70	466-50	465-83	465-55	464-75	465-00	463-58	462-23	463-30	464-65
23.	467-75	468-50	466-60	466-90	465-80	465-63	464-95	464-95	462-93	463-08	463-68	464-35
24.	467-95	468-50	466-45	466-95	465-80	465-35	465-40	465-10	463-50	463-43	463-80	464-53
25.	468-05	467-65	465-73	466-80	465-80	465-20	465-45	464-95	463-50	463-63	464-00	462-45
26.	468-05	467-55	465-43	466-70	465-75	465-50	465-50	464-58	463-35	463-55	464-05	462-50
27.	468-05	468-35	465-70	466-60	464-25	465-50	465-45	464-80	463-40	463-70	464-03	464-73
28.	467-50	468-50	466-00	466-40	465-43	465-45	465-45	465-00	463-55	463-55	464-00	464-70
29.	466-85	.....	466-05	466-10	465-60	465-40	464-95	464-95	463-35	463-53	463-80	465-05
30.	467-90	.....	466-05	466-40	465-60	465-40	465-25	464-90	462-35	463-65	463-85	464-25
31.	468-00	.....	466-00	.....	465-70	.....	465-45	464-90	.....	463-60	.....	464-90
1918												
1.	464-98	463-95	463-75	462-18	463-18	463-75	461-18	464-00	463-70	463-30	463-30	465-00
2.	465-25	463-88	463-77	462-40	463-85	462-80	461-63	464-00	462-25	463-30	463-30	465-30
3.	465-35	462-80	463-48	462-40	463-95	463-12	461-55	464-00	463-05	463-50	462-80	465-50
4.	465-23	462-43	463-48	462-40	463-85	463-27	461-75	463-40	464-10	463-55	462-85	465-65
5.	464-90	463-78	463-70	462-40	463-33	463-32	461-90	463-15	464-35	463-10	462-75	466-00
6.	464-85	463-90	463-93	462-30	462-95	463-37	463-35	463-85	464-45	463-05	462-75	466-10
7.	464-95	463-95	463-85	461-90	463-18	463-42	462-60	463-95	464-05	463-60	462-00	466-00
8.	464-45	464-00	463-80	461-98	463-55	463-57	462-33	464-05	463-00	463-50	462-25	465-40
9.	465-25	463-90	463-75	462-20	463-80	462-22	462-80	464-20	463-23	463-70	463-20	464-13
10.	465-05	462-93	463-65	462-28	463-85	462-92	462-85	464-45	464-00	464-10	463-00	465-10
11.	464-50	462-30	463-45	462-20	463-80	463-30	462-95	464-35	464-00	464-40	462-85	465-35
12.	464-70	463-80	463-55	462-20	463-05	462-92	463-28	463-55	464-25	464-50	462-90	465-25
13.	464-63	463-55	463-43	462-20	462-73	462-92	463-05	464-50	464-45	464-20	462-90	465-40
14.	464-80	463-25	463-45	462-18	462-70	462-35	462-25	464-70	464-45	463-15	462-85	465-20
15.	464-25	463-15	463-45	462-23	462-63	462-80	462-08	464-80	464-00	463-95	463-15	465-18
16.	464-18	463-20	463-35	462-10	462-70	461-17	462-35	464-80	463-98	464-05	463-18	464-75
17.	464-05	463-15	463-25	462-13	462-55	462-15	462-63	464-65	463-90	464-10	462-45	464-10
18.	463-40	463-45	463-18	462-10	462-48	462-50	463-00	463-10	463-55	464-40	462-70	465-00
19.	463-75	463-70	462-93	462-28	462-03	462-70	463-10	463-70	463-40	464-25	462-90	464-90
20.	464-28	463-60	462-80	462-65	462-00	462-80	463-40	464-93	463-70	463-20	462-85	464-65
21.	464-08	463-80	462-98	461-90	462-30	462-92	463-55	464-20	463-70	463-40	462-90	464-20
22.	464-05	463-73	462-90	462-33	462-60	462-65	463-75	463-43	463-55	464-05	462-80	463-20
23.	463-80	463-70	462-93	462-10	462-50	462-15	463-83	464-50	463-70	464-35	463-05	464-10
24.	463-70	463-58	462-45	462-20	462-63	462-20	463-80	464-35	463-50	464-55	463-05	463-95
25.	463-90	463-58	462-30	462-20	462-93	462-57	463-70	463-15	463-70	464-60	462-63	460-85
26.	463-83	463-85	462-33	462-08	462-75	462-40	464-00	463-40	463-70	463-90	462-80	462-50
27.	463-55	463-85	462-63	462-25	462-78	462-67	464-10	463-65	463-60	463-10	463-45	464-70
28.	462-98	463-75	462-65	461-13	463-05	462-97	464-15	464-30	463-55	462-55	462-10	465-00
29.	463-85	.....	462-45	462-00	463-05	462-80	462-88	464-45	463-15	463-00	462-70	464-55
30.	463-80	.....	462-53	462-45	463-18	462-45	463-83	464-52	463-50	463-20	.....	464-65
31.	463-88	.....	462-25	.....	463-30	.....	463-93	464-55	.....	463-25	.....	465-20

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK

—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1	465-05	465-65	466-15	463-55	464-30	462-67	464-30	465-50	462-40	465-45	464-90	465-65
2	465-30	463-85	465-75	463-30	464-40	463-27	464-90	465-70	463-35	465-55	464-50	466-05
3	465-30	464-90	465-40	463-10	464-45	463-40	468-45	464-93	465-45	465-55	464-25	466-00
4	465-70	465-60	466-20	462-80	464-00	462-50	469-85	465-00	465-55	465-50	464-65	466-05
5	465-20	465-95	466-05	462-85	464-30	464-70	469-45	465-75	465-20	464-85	464-70	466-00
6	464-40	465-98	466-15	463-00	464-35	465-50	469-50	465-80	464-85	464-23	464-90	465-95
7	464-60	466-00	465-65	463-50	464-35	464-60	469-50	465-70	464-35	465-25	464-95	465-00
8	464-57	465-85	465-45	463-40	464-75	465-60	468-90	465-80	465-05	465-45	465-00	465-18
9	465-20	465-25	464-90	464-00	465-15	463-50	467-35	465-65	465-25	465-13	464-13	465-50
10	465-35	465-00	464-60	464-60	465-15	464-60	467-15	464-40	465-25	465-30	464-30	465-55
11	465-65	465-25	465-05	464-10	464-80	465-40	467-75	465-15	465-00	464-80	464-50	465-85
12	464-75	465-30	464-90	464-05	462-65	465-45	468-30	465-85	465-00	464-43	465-90	465-90
13	465-35	465-25	465-55	464-00	460-95	465-30	468-00	465-95	465-00	464-58	467-30	465-93
14	465-40	465-25	465-70	464-40	460-55	465-25	467-55	465-95	464-50	465-05	467-70	464-30
15	464-35	465-10	465-10	464-38	460-35	464-50	467-30	466-25	464-60	465-20	467-70	465-20
16	465-80	464-03	464-10	464-30	460-35	464-65	466-63	466-30	465-20	465-25	467-00	465-80
17	465-63	464-13	463-75	464-20	460-45	465-25	466-20	465-75	465-05	465-10	466-45	465-80
18	465-60	464-75	463-70	464-20	460-40	465-50	466-10	466-00	465-00	465-25	466-65	465-80
19	464-85	465-25	463-40	463-90	460-40	465-40	465-70	466-25	465-25	464-45	466-40	465-85
20	464-50	465-20	463-40	463-60	460-40	465-30	465-60	466-35	465-10	464-10	465-85	465-80
21	465-00	465-35	463-30	463-95	460-45	465-45	466-05	466-40	464-48	465-10	465-90	464-90
22	465-15	465-30	463-15	464-30	460-40	464-65	466-30	466-25	464-68	465-20	465-95	465-65
23	465-30	463-80	463-30	464-30	461-90	464-02	466-15	466-15	465-20	465-15	464-73	465-60
24	465-25	464-30	463-85	464-35	463-75	465-20	466-10	465-45	465-30	465-10	465-15	465-05
25	465-00	465-80	463-10	464-05	463-70	465-95	465-80	465-35	465-40	465-00	465-65	462-65
26	464-25	466-35	462-90	464-35	464-00	466-15	465-65	465-95	465-45	463-55	466-05	463-35
27	464-60	466-35	463-30	464-50	464-10	466-20	465-85	465-95	465-30	463-75	466-10	464-75
28	464-95	466-60	463-40	464-25	464-20	466-20	464-55	465-95	464-30	464-65	465-20	464-65
29	465-55	466-35	463-35	464-40	464-55	465-40	465-50	465-95	464-68	464-85	466-30	464-40
30	465-60	466-35	463-15	464-10	464-55	465-00	465-80	465-95	465-30	464-70	465-80	465-15
31	465-63	466-35	463-40	464-10	464-70	465-00	465-60	465-25	465-00	464-90	465-00	465-20
1920												
1	465-35	465-55	464-98	466-55	466-50	466-60	470-70	468-75	465-70	464-00	463-60	463-80
2	465-10	465-83	466-45	466-60	464-65	467-00	470-85	467-35	465-80	464-10	464-35	463-85
3	465-90	466-30	466-75	467-10	464-95	468-00	470-65	466-95	465-85	463-65	464-65	463-80
4	465-40	466-20	466-70	466-80	465-70	468-35	470-75	466-60	465-70	463-50	464-65	463-70
5	465-40	466-35	466-70	466-70	465-80	468-20	470-65	466-10	463-85	464-00	464-90	462-80
6	465-60	466-50	466-60	466-75	465-75	467-38	470-75	465-80	464-50	464-00	464-25	462-75
7	465-60	466-30	466-10	466-60	465-60	466-90	469-98	465-80	464-50	464-05	463-70	463-10
8	465-65	465-05	465-95	466-40	465-50	467-40	468-60	465-18	464-40	464-10	463-70	463-10
9	465-45	465-10	466-40	466-15	464-25	467-30	467-75	465-20	464-40	464-10	464-30	463-10
10	465-60	466-20	466-40	465-85	464-90	467-25	467-55	465-90	464-25	462-90	464-35	463-20
11	465-10	466-30	466-50	464-75	465-40	467-25	467-25	466-20	464-10	463-40	464-55	463-00
12	465-90	466-50	466-25	464-30	465-40	467-28	467-05	466-90	464-50	464-10	464-40	462-35
13	466-00	466-50	466-35	465-50	465-40	466-90	467-63	466-80	463-58	464-10	464-60	462-70
14	465-95	466-50	465-70	465-55	465-40	466-20	468-20	466-20	464-70	464-10	463-85	463-40
15	465-85	465-90	465-55	465-60	465-40	466-60	468-45	465-75	464-70	464-10	463-80	463-80
16	465-63	466-30	465-90	465-35	463-95	466-50	468-90	465-20	464-70	464-00	464-25	464-30
17	466-00	466-60	465-80	465-35	464-75	466-50	468-98	466-00	464-70	463-15	464-40	464-45
18	465-50	466-60	465-80	465-20	465-35	466-40	468-15	466-00	464-70	463-25	464-40	463-95
19	465-60	466-50	465-60	465-50	465-35	466-35	467-75	465-80	464-05	463-60	464-30	463-35
20	466-05	466-50	465-55	466-30	465-25	466-18	467-35	465-60	463-80	463-50	464-30	463-95
21	466-33	466-30	464-70	466-35	465-20	466-28	466-95	465-50	464-70	463-80	463-80	464-15
22	466-30	465-65	464-70	466-50	465-25	466-70	466-65	464-70	464-70	463-65	463-30	464-15
23	466-28	465-35	465-10	466-95	464-83	466-70	466-68	465-15	464-70	463-60	464-15	464-10
24	466-10	466-35	465-45	467-30	464-70	467-23	467-40	465-50	464-70	463-10	464-10	464-22
25	465-73	466-50	465-20	466-40	465-40	467-85	467-15	465-70	464-40	463-70	464-10	462-25
26	465-70	466-60	465-45	466-80	465-70	468-65	467-18	465-60	462-90	463-90	464-10	461-75
27	466-35	466-80	465-40	467-10	465-95	469-15	467-40	465-60	462-80	464-40	463-90	462-90
28	466-60	466-80	465-60	467-00	465-95	469-85	467-55	465-55	464-10	464-70	462-93	464-30
29	466-65	466-25	466-00	466-75	465-80	470-15	468-90	464-45	463-90	464-70	463-45	464-70
30	466-80	466-30	466-30	466-70	464-80	470-35	469-23	464-80	464-10	464-60	463-90	464-70
31	466-80	466-45	466-00	466-00	465-00	469-30	469-30	465-70	465-00	463-60	463-00	464-70

WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK

—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1	464.40	465.55	465.60	465.10	464.15	463.50	463.60	463.83	462.95	463.20	463.60	464.50
2	464.00	465.70	466.00	465.00	463.55	464.34	463.33	464.40	462.85	462.45	463.85	464.70
3	464.25	465.75	466.40	464.55	463.75	464.80	463.35	464.30	462.75	463.20	463.65	464.60
4	464.75	465.80	466.40	464.40	463.85	465.40	462.15	464.20	462.70	463.95	463.90	463.10
5	465.40	465.60	466.40	465.05	463.90	465.40	462.95	464.15	463.40	463.95	463.80	463.90
6	464.30	463.95	464.95	465.60	463.75	465.20	463.85	464.10	463.30	463.65	462.70	464.50
7	464.30	462.30	464.55	466.95	463.67	464.90	464.30	462.60	463.20	463.35	463.25	464.50
8	464.10	463.15	465.70	468.50	463.55	464.90	464.55	463.40	463.05	463.05	463.40	464.65
9	464.30	463.45	466.20	470.20	463.55	464.90	464.75	464.20	463.85	462.60	463.80	464.40
10	464.60	463.00	466.10	469.20	463.55	464.80	463.33	464.10	463.95	462.60	463.80	464.65
11	465.50	463.10	466.10	468.05	463.55	464.30	464.35	463.85	463.60	462.90	464.00	463.05
12	465.60	462.45	466.15	467.30	463.55	464.00	464.80	463.60	463.33	462.90	464.20	463.80
13	465.70	462.20	464.65	466.80	463.55	463.95	464.90	463.50	464.10	462.90	462.40	464.50
14	465.70	462.25	464.65	466.45	463.60	463.80	463.80	462.90	464.50	462.90	463.50	464.60
15	465.70	462.85	465.60	466.25	463.65	463.75	465.05	463.05	464.70	462.90	464.15	464.75
16	464.70	463.05	465.70	466.10	463.90	463.75	465.00	463.25	465.00	462.40	464.20	464.95
17	464.70	463.40	465.60	465.15	464.60	463.75	463.07	463.10	465.10	462.75	464.40	464.90
18	465.55	463.55	465.40	465.45	464.00	463.70	464.00	463.30	464.00	462.90	464.40	463.37
19	465.70	463.55	465.30	465.70	464.50	463.65	464.50	463.10	463.80	463.00	464.10	464.20
20	465.90	463.00	463.56	465.30	464.50	463.65	464.50	462.90	464.45	463.00	462.80	465.05
21	465.90	462.85	465.10	465.35	464.60	463.65	464.60	462.57	464.70	463.35	464.40	465.50
22	465.90	463.30	465.10	465.30	464.60	463.55	464.50	462.45	464.33	462.90	465.40	466.10
23	464.80	463.55	465.10	465.30	464.60	463.55	464.20	463.15	464.40	462.50	465.35	466.40
24	465.05	463.55	465.30	464.80	464.25	463.45	463.10	462.87	464.15	463.20	465.30	465.40
25	465.75	463.35	465.40	464.75	463.70	463.35	463.60	462.95	463.20	463.70	465.50	463.00
26	465.75	463.15	465.30	465.50	463.50	463.25	464.40	462.92	462.10	464.00	465.35	463.90
27	465.80	462.45	464.15	465.90	463.45	463.15	464.45	462.95	464.10	463.70	464.25	465.60
28	466.20	464.60	465.40	466.00	463.45	463.15	464.50	463.00	464.00	463.70	464.20	465.90
29	466.20	465.80	465.95	465.95	463.40	463.15	464.40	463.20	463.60	463.70	464.60	466.05
30	465.30	465.75	465.90	463.35	463.35	463.75	464.75	463.20	463.50	463.75	464.80	466.05
31	465.15	465.60	463.35	463.35	463.35	463.35	464.07	462.95	463.10	463.10	465.95	465.95
1922												
1	464.65	466.40	466.60	465.10	465.95	465.60	464.90	464.65	465.10	463.19	464.20	464.35
2	464.95	466.60	466.75	463.20	466.15	465.70	463.75	464.65	465.20	464.10	464.10	464.75
3	465.70	466.60	466.95	462.90	466.20	465.72	465.50	464.65	463.70	464.45	464.25	463.80
4	465.05	466.60	466.95	463.60	466.20	465.17	463.50	464.60	462.47	464.40	464.30	464.90
5	465.95	464.77	465.23	463.60	466.20	465.20	464.90	464.70	462.45	464.40	463.32	466.75
6	465.95	464.80	465.40	463.55	466.30	465.80	465.30	463.27	464.70	464.20	463.90	466.70
7	465.85	465.60	466.40	463.75	465.80	465.80	465.50	463.85	465.25	464.20	464.40	466.68
8	464.10	465.70	466.40	463.95	465.50	465.85	465.40	464.70	465.00	463.08	464.50	466.60
9	464.40	465.80	466.50	462.57	465.90	465.90	463.95	464.65	465.00	463.90	464.65	466.20
10	464.90	465.60	466.40	463.45	466.00	465.95	464.90	464.65	464.00	464.10	464.50	464.45
11	465.10	466.35	466.10	465.10	466.80	464.90	465.20	464.85	464.00	464.20	464.60	465.10
12	465.10	465.47	464.45	465.90	466.95	465.05	465.40	464.85	464.40	464.20	463.10	466.10
13	465.05	464.50	465.15	466.40	466.20	465.35	465.35	463.33	464.40	464.10	463.95	466.30
14	464.80	465.35	465.60	467.10	466.35	465.50	465.60	464.70	464.40	464.00	463.55	466.20
15	463.95	465.55	465.50	467.20	465.20	465.40	465.60	464.80	464.40	463.13	463.35	466.30
16	463.65	466.05	465.30	466.15	463.68	465.45	463.95	464.85	464.45	463.60	463.45	466.30
17	465.50	466.05	465.20	467.95	466.40	465.65	465.20	464.85	463.87	464.30	463.50	465.10
18	465.90	466.05	465.15	469.60	466.40	465.15	465.50	464.85	463.60	464.20	463.40	465.90
19	465.60	464.80	463.55	469.60	466.50	465.40	465.30	465.10	464.00	464.25	463.13	466.10
20	465.50	465.35	463.50	469.25	466.50	466.15	465.50	463.75	464.35	464.35	463.77	466.30
21	465.55	466.40	464.90	468.60	466.05	465.85	465.30	464.50	464.40	464.00	464.40	466.40
22	464.00	466.50	464.80	467.90	465.25	465.80	465.30	464.80	464.50	463.00	464.40	466.70
23	464.60	466.50	464.85	466.90	466.05	465.80	463.70	464.70	464.50	463.37	464.50	466.50
24	466.10	466.75	464.85	467.00	466.00	465.80	464.90	464.80	463.32	463.90	464.50	465.25
25	466.05	466.65	464.60	467.40	465.95	464.83	464.40	465.30	464.20	464.25	464.20	463.15
26	466.20	465.43	463.30	467.35	466.05	465.00	464.40	465.30	464.40	464.25	463.40	464.10
27	466.00	465.50	463.60	467.35	465.90	465.80	464.10	464.13	464.30	464.30	463.60	466.00
28	466.30	466.50	465.80	467.30	464.60	465.80	464.10	464.10	464.30	464.10	464.30	466.50
29	465.20	465.60	467.15	464.66	465.90	465.90	464.10	464.85	464.30	463.00	464.35	466.30
30	464.80	465.30	465.75	465.70	465.90	465.90	464.20	465.10	464.40	463.80	464.20	466.10
31	466.10	465.30	465.30	465.65	465.65	465.65	464.60	465.10	465.10	464.10	465.10	465.10

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK  
—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1	465-00	466-60	466-10	465-05	465-77	463-70	464-15	463-90	463-30	462-85	461-80	461-85
2	465-90	466-50	466-05	464-70	464-10	463-70	463-77	463-90	461-73	463-05	461-80	462-25
3	466-10	466-90	466-25	464-75	463-70	463-40	463-80	464-10	460-97	463-10	461-90	462-15
4	466-40	465-50	465-40	464-65	464-70	463-55	462-70	463-90	461-70	463-05	461-95	462-05
5	466-50	466-15	466-30	464-45	466-15	463-65	462-60	463-00	462-03	463-15	461-73	462-05
6	466-40	466-40	466-30	464-45	465-93	463-60	464-00	463-80	463-25	463-25	461-15	462-05
7	465-00	466-40	466-30	464-05	465-80	463-60	464-00	463-80	463-20	462-50	461-80	462-05
8	465-50	466-80	466-30	462-80	465-20	463-60	462-45	463-85	463-20	462-85	462-05	462-05
9	466-10	466-90	466-40	463-95	464-93	463-55	463-40	463-80	462-65	463-05	461-90	462-20
10	466-10	466-90	466-60	463-95	464-80	462-75	463-85	463-80	463-05	463-05	461-80	462-35
11	466-25	466-65	465-93	463-75	464-55	463-40	464-10	463-75	463-15	463-05	461-75	462-45
12	466-30	466-60	466-10	463-55	464-30	463-60	464-00	463-45	463-15	463-20	461-90	462-55
13	466-30	467-25	466-10	463-55	464-25	463-70	463-85	463-60	463-05	463-05	461-95	463-20
14	465-30	467-30	466-10	463-50	464-50	463-70	463-90	463-70	463-15	462-50	461-80	463-35
15	465-50	467-00	465-90	463-40	464-30	463-70	463-43	463-60	463-25	462-65	461-75	463-55
16	466-30	466-90	466-00	463-95	464-20	463-30	463-43	463-35	463-05	462-90	461-85	463-30
17	466-30	466-60	465-75	463-05	464-10	463-23	463-90	463-45	463-15	462-45	461-85	463-05
18	466-40	466-55	465-35	463-50	463-85	463-30	463-90	463-25	463-15	461-85	461-85	463-20
19	466-60	466-60	465-15	463-95	463-55	464-00	463-90	462-95	463-10	461-85	461-85	463-05
20	466-50	466-72	465-70	464-65	463-78	463-80	464-30	462-95	463-00	461-85	461-85	462-90
21	465-55	466-75	465-50	466-75	464-10	463-90	463-90	463-30	463-15	461-65	461-95	462-65
22	465-80	466-80	465-20	467-70	464-10	463-95	463-32	463-35	463-15	461-95	461-90	462-80
23	466-40	467-00	465-00	468-00	464-20	465-20	463-90	463-30	463-05	461-75	461-85	462-80
24	466-45	467-30	465-30	468-15	463-90	465-15	464-15	463-25	462-65	461-95	461-90	462-05
25	466-50	466-60	464-60	468-25	463-85	465-25	464-00	463-30	463-10	461-85	461-90	462-85
26	466-50	466-50	465-10	468-15	463-75	465-40	464-00	463-05	463-10	461-95	461-85	461-95
27	466-75	466-80	465-30	467-75	463-30	465-30	463-90	463-05	462-95	461-95	461-75	463-20
28	466-90	466-55	465-50	467-35	463-50	465-10	463-90	463-25	462-95	461-95	461-85	463-50
29	466-30	466-30	465-40	467-20	463-80	465-15	463-05	463-25	462-95	461-75	461-80	463-35
30	466-50	466-50	465-15	466-80	463-80	464-80	463-70	463-25	462-95	461-95	461-80	463-50
31	466-60	466-60	465-05	463-80	463-80	463-80	463-90	463-25	463-05	461-95	461-80	463-40
1924												
1	463-90	463-50	462-45	462-05	462-20	461-60	462-20	462-35	462-57	462-25	461-95	463-10
2	463-90	463-30	462-10	462-05	462-15	461-65	462-35	462-35	462-35	462-15	461-85	463-10
3	464-05	462-45	461-50	462-00	462-15	461-75	462-35	462-30	462-55	462-00	461-80	463-00
4	464-05	461-95	462-05	461-35	462-00	461-65	461-90	462-10	462-45	462-20	461-90	463-05
5	464-10	462-65	462-20	461-85	462-10	461-80	461-60	461-95	462-45	462-45	461-85	463-00
6	463-90	462-55	462-25	461-75	462-40	461-75	461-40	461-85	462-25	462-35	461-85	462-95
7	463-70	462-80	462-55	461-85	462-40	461-70	461-65	461-65	462-35	462-15	462-05	462-95
8	463-90	462-10	462-45	461-95	462-40	461-60	462-05	462-09	462-25	462-03	461-90	462-95
9	463-90	462-90	461-98	461-90	462-35	461-65	462-05	462-50	462-20	462-00	461-75	462-95
10	463-95	461-88	461-63	461-95	462-35	461-85	462-25	462-05	462-25	462-05	461-75	462-95
11	464-00	462-15	462-05	461-95	462-05	461-85	462-15	462-45	462-05	461-95	462-00	462-80
12	464-05	462-85	462-55	462-10	461-85	461-85	462-05	462-70	462-10	461-80	462-45	462-80
13	463-95	463-10	462-15	462-07	461-95	461-85	461-95	462-80	462-05	463-55	462-25	462-90
14	463-20	463-05	462-15	462-00	461-95	461-85	462-15	462-85	462-05	464-36	462-35	462-98
15	463-15	462-80	462-15	461-75	462-05	461-90	462-15	462-50	461-95	464-35	462-25	463-05
16	463-40	462-95	461-85	461-90	462-05	461-95	462-15	462-25	461-80	463-85	462-05	463-03
17	463-50	462-20	461-63	462-05	461-95	461-95	462-10	462-25	461-85	463-35	461-85	463-15
18	463-50	462-65	461-95	462-15	461-80	462-00	462-05	462-15	461-85	463-05	461-95	463-30
19	463-70	462-95	461-95	462-05	461-80	462-18	461-95	462-20	461-90	463-55	461-85	463-50
20	463-35	462-95	461-90	462-00	461-90	462-65	461-85	462-25	461-85	463-40	461-95	463-50
21	463-20	462-85	461-85	461-80	462-05	462-70	462-05	462-25	462-05	463-25	461-85	463-60
22	463-45	462-80	461-85	462-00	462-05	462-65	462-15	462-25	462-10	463-05	461-80	463-60
23	463-80	462-85	461-70	462-05	461-95	462-75	462-15	462-35	461-95	461-95	461-97	463-50
24	463-50	462-18	461-37	462-00	461-90	462-90	462-15	462-15	462-00	462-15	462-15	463-50
25	463-50	461-75	461-80	462-05	461-65	462-85	462-20	462-20	462-15	462-35	462-93	462-65
26	463-55	462-45	461-85	461-95	461-75	462-75	462-05	462-25	462-20	462-15	462-75	462-65
27	462-95	462-55	461-95	461-75	461-85	462-75	462-05	462-30	462-10	462-10	462-60	463-55
28	463-23	462-57	461-95	461-85	462-00	462-65	462-25	462-20	462-25	462-25	463-25	463-30
29	463-55	462-55	461-75	462-20	461-75	462-45	462-25	462-63	462-45	462-33	463-20	463-55
30	463-70	463-70	461-50	462-30	461-65	462-45	462-20	463-20	462-40	462-15	463-05	463-75
31	463-70	463-70	461-95	461-75	461-75	462-35	462-35	463-05	462-05	462-05	463-75	463-75

## WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK

—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	463.65	463.60	463.93	464.10	466.20	463.50	464.70	464.30	463.05	464.65	463.50	464.20
2	463.75	463.70	464.10	464.00	466.00	463.90	465.20	463.70	463.05	465.40	463.55	464.10
3	463.65	463.70	464.00	463.75	465.50	464.00	465.50	464.15	463.35	465.90	464.00	463.90
4	463.50	463.65	463.80	463.75	465.40	464.20	464.65	464.60	463.15	465.10	463.90	463.80
5	463.45	463.40	463.75	463.65	465.10	464.30	464.15	464.70	463.15	465.10	464.10	464.00
6	463.30	463.40	463.65	463.60	464.80	464.70	464.60	464.75	463.15	465.35	464.40	463.70
7	463.40	463.35	463.65	463.50	464.60	464.25	465.30	464.70	463.20	465.15	464.90	463.70
8	463.35	463.35	463.45	463.40	464.40	464.90	465.40	464.70	463.70	465.00	464.53	464.00
9	463.35	463.45	464.30	463.30	464.30	466.10	465.30	464.25	464.20	464.80	464.45	464.20
10	463.35	463.55	464.45	463.25	464.00	466.30	465.30	463.70	464.30	464.90	464.65	464.60
11	463.35	463.55	464.80	463.25	463.50	466.25	465.10	463.30	464.30	464.20	464.60	464.80
12	463.45	463.55	464.55	463.05	463.85	466.00	464.68	464.40	464.50	464.10	464.40	464.70
13	463.50	463.35	464.50	463.05	463.80	465.90	464.40	464.45	463.90	464.50	464.30	464.30
14	463.45	463.40	464.55	463.20	463.80	464.95	465.20	464.50	464.20	464.40	464.10	464.25
15	463.45	463.50	464.60	463.20	463.80	464.70	465.30	464.45	464.45	464.40	463.70	464.60
16	463.53	463.65	464.65	463.10	463.50	465.20	465.24	463.70	464.50	464.40	463.60	464.50
17	464.10	463.55	464.87	462.85	463.30	465.15	465.05	463.55	464.50	464.45	463.80	464.50
18	463.90	463.55	464.90	462.75	463.40	465.05	465.10	464.20	464.40	464.00	463.90	464.50
19	463.65	463.45	464.85	462.75	463.80	465.15	464.35	464.25	464.35	464.00	463.80	464.50
20	463.45	463.45	464.78	462.75	463.75	465.10	464.50	464.20	463.87	464.25	463.80	464.00
21	463.40	463.55	464.65	462.65	463.75	464.45	465.10	464.30	464.10	464.20	463.75	464.20
22	463.50	463.55	464.75	462.75	463.50	463.90	465.30	464.30	464.50	464.20	463.50	464.50
23	463.40	463.65	464.75	463.20	463.35	464.60	465.30	463.75	464.60	464.15	463.75	464.60
24	463.35	463.75	464.65	464.45	463.15	464.75	465.20	463.55	464.60	464.15	464.15	464.50
25	463.40	463.70	464.90	464.95	463.20	464.80	465.00	464.20	464.60	463.58	464.20	464.08
26	463.60	463.70	464.95	464.80	463.70	464.80	463.90	464.30	464.50	463.75	464.20	464.05
27	463.50	463.80	464.95	464.75	463.70	464.95	463.40	464.35	463.70	464.15	464.55	464.00
28	463.45	463.80	464.05	464.60	463.70	464.45	464.30	464.40	463.75	464.10	464.80	464.70
29	463.50	.....	463.85	464.75	463.70	464.50	464.00	464.40	464.10	463.90	463.85	465.08
30	463.50	.....	463.95	465.55	463.80	465.30	464.00	463.30	464.20	463.80	464.00	464.80
31	463.50	.....	464.05	.....	463.45	.....	464.30	462.75	.....	463.70	.....	465.10
1926												
1	465.00	464.85	464.63	464.40	464.00	464.05	463.60	464.93	465.75	466.20	468.95	470.30
2	465.00	465.55	465.20	464.25	463.50	464.00	463.50	463.05	465.85	466.27	469.60	470.20
3	464.45	464.60	465.10	464.25	463.68	464.00	463.80	465.25	465.80	466.05	469.60	470.20
4	464.40	464.60	465.00	463.88	463.85	464.05	463.20	465.15	465.85	465.80	469.65	470.20
5	464.60	464.30	465.00	463.70	463.60	463.85	463.43	465.40	464.90	466.70	469.55	469.70
6	464.60	465.10	464.90	464.05	463.85	463.45	463.75	465.00	463.35	467.40	469.35	469.70
7	464.80	464.90	464.90	464.05	463.80	463.50	464.05	465.00	464.45	467.85	468.80	469.90
8	464.80	465.00	465.20	464.05	463.80	463.75	463.90	464.65	464.15	467.90	468.30	469.80
9	464.80	465.35	465.20	464.05	463.40	463.85	464.15	464.78	466.20	467.55	468.00	469.90
10	464.50	465.45	465.05	464.10	463.45	463.75	464.78	465.35	466.15	466.90	467.50	469.75
11	464.70	464.35	465.00	464.05	463.90	463.75	464.60	465.25	466.05	466.40	467.20	469.65
12	464.00	465.30	465.10	463.90	463.80	463.65	465.13	465.30	465.58	466.85	467.25	469.35
13	464.80	465.30	465.15	464.20	463.80	463.30	465.65	465.35	464.43	466.65	467.33	469.50
14	464.60	465.00	465.13	464.35	463.80	463.26	465.65	465.35	465.45	466.65	467.30	469.70
15	464.60	465.00	465.13	464.50	463.80	463.60	465.50	464.65	465.55	466.75	467.50	469.70
16	464.40	465.15	465.35	464.45	463.45	463.65	465.70	464.85	465.85	466.75	467.80	469.65
17	464.10	465.40	465.40	464.40	463.35	463.65	465.70	465.50	465.65	466.23	467.70	469.70
18	464.50	465.50	465.15	464.30	463.40	463.65	465.95	465.55	465.60	466.30	467.70	469.70
19	465.00	465.30	465.05	464.50	463.20	463.70	464.90	465.55	464.80	466.55	468.25	469.30
20	465.25	465.20	465.75	464.75	463.10	463.95	465.80	465.65	464.90	466.88	469.25	469.30
21	465.15	465.00	464.20	465.00	463.10	464.85	465.85	465.75	465.35	467.55	470.45	469.40
22	465.00	465.00	464.15	464.50	463.15	466.50	465.80	465.32	465.45	467.85	471.35	469.60
23	465.00	465.00	464.65	464.30	462.90	467.15	465.80	465.40	465.00	468.03	471.45	469.60
24	464.85	464.90	464.70	464.15	463.03	467.20	465.80	466.00	466.75	468.45	470.95	469.70
25	464.95	464.80	464.55	463.80	463.45	466.80	465.20	466.05	466.95	469.05	470.60	466.60
26	465.40	464.80	464.60	463.90	463.95	466.50	464.95	466.03	466.33	469.30	470.60	466.45
27	465.50	464.80	464.75	464.10	464.55	465.90	465.65	466.05	466.75	469.07	470.50	468.60
28	465.40	464.60	464.00	464.15	464.55	464.90	465.35	465.95	466.85	468.25	470.03	469.40
29	465.20	.....	464.25	464.10	464.45	464.60	465.35	464.90	466.65	468.07	470.20	469.60
30	465.10	.....	464.55	464.05	464.20	464.35	465.35	464.85	466.35	468.65	470.15	469.80
31	464.90	.....	464.75	.....	463.90	.....	465.45	465.65	.....	468.60	.....	469.50

WATER LEVELS—RAINY RIVER—INTERNATIONAL FALLS, MINN., U.S.G.S. GAUGE ON DOCK

—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1.....	469.45	467.95	468.20	466.15	473.00	474.80	474.40	470.20	465.90	465.40	465.70	467.10
2.....	469.00	468.20	468.90	466.25	473.10	475.00	474.60	470.20	466.30	463.56	465.90	466.70
3.....	468.90	468.20	469.00	465.20	473.50	475.00	474.50	469.35	466.63	464.80	466.00	466.40
4.....	468.60	468.15	468.85	466.00	473.60	475.10	474.50	468.90	466.80	465.40	466.10	465.40
5.....	468.10	468.15	468.70	466.35	474.30	474.80	474.30	468.70	467.90	465.40	465.90	465.70
6.....	467.95	467.53	468.08	466.60	474.60	475.10	474.10	467.32	467.35	465.80	465.05	466.40
7.....	467.95	467.83	467.90	466.75	474.60	475.00	474.00	467.30	466.10	465.75	465.30	467.30
8.....	467.55	468.05	468.80	467.00	474.30	474.90	473.80	468.10	466.10	465.70	465.80	467.50
9.....	467.18	468.15	468.90	467.23	474.30	474.70	474.10	468.19	465.90	463.85	465.90	467.70
10.....	467.40	468.05	468.80	467.26	474.80	475.00	473.60	467.90	466.00	465.15	465.80	468.00
11.....	467.32	467.95	468.80	467.55	475.00	474.70	473.80	468.10	464.70	465.80	465.55	466.10
12.....	467.95	468.15	468.70	468.20	475.10	474.75	473.80	468.40	465.40	465.70	466.10	466.80
13.....	468.15	467.68	468.30	468.20	455.00	474.60	473.80	468.70	466.10	465.90	464.80	467.80
14.....	468.10	467.45	468.50	469.45	474.90	474.50	473.80	468.35	465.90	465.80	465.35	467.70
15.....	468.00	467.80	468.15	470.95	474.60	474.60	474.05	468.60	465.60	465.90	465.60	467.80
16.....	467.65	468.05	468.05	472.60	475.10	474.33	474.30	468.20	465.80	464.43	464.65	467.90
17.....	467.85	468.25	467.40	473.80	474.90	474.40	474.10	467.80	465.60	465.20	466.80	467.70
18.....	468.10	468.35	467.20	473.85	475.10	.....	473.80	467.95	464.40	465.80	467.30	466.65
19.....	468.25	468.25	467.10	474.40	474.90	474.20	473.90	467.95	464.95	465.80	467.60	467.20
20.....	468.30	467.77	466.48	475.10	474.90	474.15	473.60	467.86	465.50	465.90	465.85	467.60
21.....	468.35	467.65	466.35	475.25	474.70	474.20	473.60	466.90	465.60	465.90	467.10	467.80
22.....	468.35	467.85	466.35	475.35	474.70	475.00	473.60	466.60	465.60	465.90	467.60	467.60
23.....	467.93	467.95	466.35	474.95	474.70	475.30	473.50	466.50	465.40	465.90	467.80	467.70
24.....	467.80	467.95	466.35	474.05	475.00	475.30	473.40	465.70	465.50	465.05	467.90	467.10
25.....	468.30	467.95	466.25	473.10	475.30	475.00	473.40	465.45	464.12	465.85	467.70	463.00
26.....	468.30	468.00	466.25	472.90	475.50	475.00	473.05	465.60	465.00	465.90	467.30	463.35
27.....	468.20	467.75	465.63	472.70	475.80	474.95	472.50	465.70	465.40	465.90	465.40	466.30
28.....	467.85	467.60	465.50	472.60	475.70	474.60	470.80	465.60	465.30	465.40	466.30	467.70
29.....	468.15	.....	466.05	472.90	475.70	474.50	470.80	465.70	465.40	465.40	466.70	467.75
30.....	467.40	.....	466.15	472.00	475.40	474.40	470.40	466.00	465.40	463.70	467.30	467.70
31.....	467.27	.....	466.00	.....	475.40	.....	470.10	466.00	.....	465.15	.....	467.70

## WATER LEVELS—RAINY RIVER—LITTLE FORKS, ONTARIO

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1.						446.60	464.50	465.40	464.40	464.80	463.80	465.10
2.						465.00	464.50	465.20	464.50	464.80	464.30	466.00
3.						464.60	464.50	464.40	464.50	464.50	465.10	464.80
4.						464.50	463.65	464.50	464.50	463.80	465.20	465.00
5.						464.40	463.00	464.50	464.40	464.00	465.00	465.40
6.						464.30	464.60	464.40	462.90	464.50	465.10	464.90
7.						463.00	464.90	464.40	462.00	464.80	465.20	463.20
8.						464.00	465.00	464.40	463.60	464.70	464.30	464.00
9.						464.80	465.10	463.20	464.40	464.60	464.50	464.45
10.						466.90	465.00	464.00	464.30	465.00	465.00	464.90
11.						467.30	464.90	464.10	464.30	463.80	465.00	465.10
12.						467.10	464.00	464.20	464.30	464.50	465.00	465.60
13.						466.00	465.70	464.30	463.00	465.20	464.80	464.00
14.						465.70	467.20	464.40	464.00	465.40	464.60	465.60
15.						465.30	467.60	464.40	464.40	465.10	464.60	466.00
16.						465.30	467.70	463.30	464.50	465.10	463.50	466.20
17.						465.00	467.60	464.10	464.60	465.00	465.20	466.20
18.						464.70	467.50	464.40	464.60	463.90	466.10	466.20
19.						464.70	466.10	464.50	464.60	464.40	466.50	466.00
20.						464.60	466.20	464.50	463.30	465.00	466.50	464.60
21.						463.70	465.70	464.50	464.30	465.00	466.30	464.90
22.						464.00	466.10	463.80	464.60	464.90	465.40	464.60
23.						464.20	466.20	464.10	464.60	465.00	465.40	465.70
24.						464.20	466.20	464.30	464.70	465.10	466.20	466.20
25.						464.30	465.90	464.40	464.70	463.80	466.00	464.90
26.						464.30	465.50	464.50	464.70	464.80	465.70	462.50
27.						464.20	465.60	464.50	463.30	465.30	465.10	462.70
28.						463.20	465.50	464.60	464.30	465.30	463.60	463.20
29.						464.10	465.40	464.70	464.50	465.30	464.10	466.50
30.						464.50	465.10	463.20	464.60	465.20	464.50	466.50
31.							465.40	463.30		465.20		466.20
1915												
1.	466.50	465.70	463.50	463.10	464.00	463.20	468.50	463.50	462.70	463.10	462.20	465.20
2.	466.70	465.70	463.70	463.10	463.70	463.50	468.00	463.20	462.70	463.00	462.70	465.30
3.	464.10	465.70	464.50	463.30	463.80	463.40	467.40	463.80	463.00	462.40	462.70	465.45
4.	465.50	465.70	464.20	462.30	464.00	463.20	466.50	463.90	463.00	463.00	463.10	465.20
5.	465.80	465.80	464.30	462.80	464.00	463.30	465.10	463.90	461.90	463.10	462.90	463.45
6.	465.90	465.20	464.00	463.20	464.00	463.50	465.50	463.80	460.60	463.20	462.80	464.00
7.	465.70	464.60	462.90	463.30	464.40	463.70	466.20	463.70	462.10	463.30	461.90	464.40
8.	466.10	464.80	463.20	463.50	463.70	464.00	465.40	463.60	462.90	463.30	462.40	464.50
9.	466.20	465.20	463.80	463.70	463.60	464.00	465.20	463.70	462.90	463.40	462.70	464.50
10.	464.90	465.00	463.30	463.70	464.60	464.00	464.80	463.90	463.00	461.90		464.80
11.	464.80	465.10	463.20	463.00	464.80	464.20	464.60	463.80	463.10	461.80		465.00
12.	465.50	465.10	463.40	463.10	465.60	465.00	464.20	463.70	462.60	463.20		464.10
13.	465.80	465.00	463.50	463.00	465.60	465.40	464.50	463.50	462.30	463.00		465.10
14.	465.70	464.70	462.40	463.80	465.20	467.90	464.30	463.40	462.70	462.90		465.60
15.	465.50	463.70	462.70	463.70	464.60	468.40	464.40	463.20	462.80	462.80		465.85
16.	465.50	464.70	463.20	464.20	464.50	468.50	464.20	463.20	462.90	462.90	462.60	465.90
17.	464.50	464.80	463.10	464.20	465.40	468.60	463.90	463.30	462.90	461.80	462.50	465.50
18.	465.50	464.50	462.90	463.00	466.30	468.80	464.00	463.80	462.90	462.10	462.85	465.65
19.	465.50	464.55	463.50	463.00	467.20	468.20	463.80	463.30	462.60	462.40	462.20	464.75
20.	465.70	464.50	462.50	464.00	467.10	467.80	464.10	463.20	462.90	462.40		
21.	465.90	464.10	462.50	464.00	466.10	467.20	463.80	463.20	462.70	462.70	462.00	465.65
22.	466.20	463.30	462.90	463.00	465.80	466.40	463.90	463.00	462.90	462.80	463.00	465.35
23.	466.50	464.00	463.00	462.70	465.30	465.80	463.50	463.30	463.20	462.70	463.35	465.30
24.	465.70	464.20	463.20		464.30	465.40	463.20	463.30	463.30	461.60	463.40	465.20
25.	465.50	464.00	463.60		464.20	465.50	462.90	463.20	463.20	462.50	463.40	462.90
26.	466.30	464.20	464.00	464.00	464.40	465.40	463.80	463.20	461.80	462.80	463.35	462.40
27.	466.20	464.20	463.60	464.50	464.30	466.20	464.00	463.20	462.80	462.80	463.35	464.60
28.	466.00	463.70	463.00	464.20	464.30	467.20	464.10	463.00	462.80	462.80	462.70	465.60
29.	466.00		463.70	464.20	463.30	468.00	464.20	462.70	463.00	462.70	463.60	465.50
30.	466.10		463.30	464.30	463.30	468.80	464.20	462.70	463.10	462.70	464.80	465.45
31.	466.20		463.20		462.50		464.00	463.00		461.90		465.55

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—RAINY RIVER—LITTLE FORKS, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	465-35	465-80	466-35	464-55		474-60		465-10	464-60	463-40	464-40	
2	465-20	466-00	466-35	463-45		475-20		465-20	464-40	463-90	464-50	
3	465-00	466-10	466-45	463-95		475-40		465-10	463-10	464-20	464-60	
4	465-35	466-95	466-50	464-35		475-20		465-10	463-00	464-50	464-80	
5	465-75	466-95	465-80	464-45		475-00		465-20	463-20	464-85	464-10	
6	465-80	465-10	466-40	464-50		475-00		465-30	463-40	464-90	464-40	
7	465-80	465-70	466-30	464-45		475-00		465-10	463-50	464-70	464-50	
8	465-85	466-15	466-25	464-45		474-80		465-20	463-90		464-70	
9	464-90	466-20	466-25	462-75	471-00	474-80		465-10	464-00		464-80	
10	465-60	466-25	466-35	463-80	471-20	474-70		465-20	463-20		464-95	
11	466-00	466-45	466-35	464-45	471-20	474-65		465-10	463-40		464-80	
12	466-10	466-45	465-50	464-65	471-00	474-60		465-15	463-80		464-00	
13	466-15	465-20	465-90	465-10	471-20	474-60		465-20	463-90		464-40	
14	466-10	465-70	466-10	466-00	471-20	474-60		465-30	464-00	464-90	464-50	
15	466-00	465-95	466-15	467-50	471-00	474-60		465-95	464-30	463-30	464-60	
16	464-00	466-20	466-20	468-15	471-50	474-60		465-90	464-50	463-90		
17	465-30	466-45	466-30	468-95	472-30	474-60		465-95	463-40	464-25		
18	465-60	466-70	466-25		472-50	474-50		465-85	463-70	464-30		
19	465-90	466-90	464-60		472-70	474-45		465-70	463-70	464-40		
20	466-00	465-40	464-80		472-70	474-40		465-40	463-30	464-50		
21	466-15	466-10	464-90		472-85	474-35		465-40	463-10	464-55		
22	466-00	466-20	465-15		473-00	474-40		465-30	463-30	463-30		
23	465-40	466-30	465-20		473-20	474-40		465-10	463-90	463-80		
24	465-60	466-20	465-20		473-40	474-35		465-20	463-60	464-10		
25	465-75	466-30	465-25		473-40	474-40		465-30	463-70	464-15		
26	465-90	466-30	464-40		473-70	474-40		465-30	464-00	464-20		
27	465-90		464-60		473-80	474-40		464-40	464-30	464-30		
28	465-85		465-15		474-20	474-20		465-10	464-50	464-25		
29	465-90		464-65		474-40	474-20		465-00	464-90	463-70		
30	465-20		464-35		474-10	474-20		464-75	465-10	463-90		
31	465-65				474-40			464-60		464-40		
1917												
1					465-45	464-35	463-40	463-90	463-35		461-90	
2					465-50	464-20	462-70	464-05	461-70	461-90	461-90	
3					465-55	462-20	462-60	463-90	460-35	461-95	461-85	
4					465-60	463-90	462-00	463-95	462-45	461-90	461-55	
5					465-55	464-25	462-60	461-95	463-00	461-80	461-40	
6					465-05	464-05	463-80	464-60	463-05	461-70	461-40	
7					465-25	464-10	464-00	463-80	463-05	460-70	461-50	
8					465-30	464-10	463-55	463-90	463-05	461-70	461-50	
9					465-30	464-10	463-90	463-85	462-90	462-25	461-65	
10					465-30	463-30	464-00	463-80	463-00	462-10	361-55	
11					465-15	463-90	464-10	464-00	463-05	462-15	461-30	
12					465-15	464-05	464-10	463-20	463-00	462-10	461-65	
13					464-80	462-70	464-10	463-55	463-05	462-00	461-60	
14					464-90	462-00	464-10	463-80	463-05	460-25	461-50	
15					464-90	462-15	464-05	462-80	462-80	461-80	461-55	
16					464-85	462-15	463-75	463-15	462-30	462-00	461-40	
17					464-85	461-85	463-85	463-00	462-50	462-25	461-55	
18					464-85	461-60	463-90	463-40	462-60	462-05	458-90	
19					464-85	461-75	463-90	463-40	462-60	459-90	461-10	
20					464-00	463-10	463-90	463-40	462-60	456-90	462-30	
21					464-40	463-90	463-90	463-45	462-20	459-00	462-65	
22					464-60	464-05	462-60	463-55	462-20	461-20	462-45	
23					464-00	464-15	463-70	463-55	461-30	461-70	462-40	
24					464-55	463-80	463-90	463-55	462-00	462-15	462-45	
25					464-50	463-95	463-95	463-40	462-05	462-15	462-70	
26					464-35	463-90	463-95	461-90	462-00	462-20	462-80	
27					462-65	464-00	463-80	463-40	462-05	462-30	462-70	
28					464-20	463-95	463-70	463-30	462-05	462-05	462-70	
29					464-25	463-90	462-70	463-35	462-05	462-45	462-75	
30					464-35	463-95	463-80	463-40	460-70	463-30	462-80	
31					464-30		463-85	463-30		463-20		



## WATER LEVELS—RAINY RIVER—LITTLE FORKS, ONTARIO—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1					463.00	463.05		462.50	461.70	461.80	461.80	
2					463.00	461.70		463.30		462.10	461.70	
3					463.00	462.75		462.35	463.20	462.20	461.70	
4					463.00	462.80		461.80	462.60	462.20	461.80	
5						462.60		462.20	462.20	461.70		
6						462.85	462.15	462.70	463.10	461.80		
7					462.55	463.00		462.60	462.50	462.00		
8						463.00	461.70	462.65	461.70	462.20	461.90	
9						461.45	461.40	462.80	462.20	462.40	462.10	
10						462.25	461.50	463.00	462.80	462.70		
11						462.45	461.60	462.30	462.75	462.75		
12					462.35	462.00	461.80	462.51	462.90	463.10		
13					462.10	461.55	461.70	463.00	463.20	462.50	461.50	
14					462.10	461.30		463.50	463.30	461.95	461.70	
15					462.10	461.60		463.20	462.40	462.20	462.30	
16					462.75			463.45	462.70	462.50	462.70	
17					461.75		461.50	463.15	462.90	462.00		
18					461.40	461.30	461.75	461.40	463.20	462.80	461.70	
19					461.45	461.50	461.80	463.00	463.35	462.70	461.90	
20					461.30	461.60	462.40	463.40	463.10	461.90	461.90	
21					461.40	461.65	462.15	462.45	462.80	461.90	461.80	
22					461.75	461.40	462.30	462.30	462.10	462.50	462.00	
23					461.60		462.50	463.10	462.40	462.80	462.10	
24					461.95	461.25	462.50	462.70	462.00	463.20	462.20	
25					461.80	461.30	462.50		462.20	463.10	462.50	
26					461.30		462.75	462.20	462.30	462.40	462.50	
27					461.60	461.55	462.80	462.60	462.50	461.70	462.50	
28					462.60	461.70	462.50	462.85	462.30	461.10	462.70	
29					462.45	461.75	462.00	462.90	461.90	461.40	462.60	
30					462.60		462.40	463.00	462.00	461.70	462.50	
31					462.60		462.30	463.10		461.80		
1919												
1				461.70	462.30		463.00	464.00		463.80	463.60	
2				461.90	463.10	462.50	465.20	464.30		464.10	463.60	
3				461.90	463.30	462.20	469.00	463.20	464.00	464.20	462.90	
4				461.80	462.40		469.40	463.80	464.10	463.30	463.10	
5				461.90	463.20	464.20	469.90	464.30	463.80	463.20	463.40	
6				462.10	463.30	464.50	468.70	464.40	463.40	463.40	463.60	
7				462.40	463.60	464.80	468.20	464.30	463.60	463.70	463.70	
8				462.80	463.90	463.10	468.40	464.40	463.80	464.60	463.90	
9				463.30	464.50	463.00	466.10	464.40	463.90	464.80	462.80	
10				463.40	464.50	463.80	466.80	462.20	463.70	464.80	463.20	
11				463.20	462.80	464.10	467.10	463.50	463.70	463.90	463.10	
12				463.20		464.10	467.30	464.30	463.50	463.20	465.30	
13				463.10		464.00	466.70	465.10	463.40	462.10	465.60	
14				463.70		463.70	465.00	465.20	461.90	463.60	465.60	
15				463.80		462.10	465.60	465.20	463.60	463.70	465.50	
16				463.80		463.70	465.10	465.20	463.80	463.80		
17				463.60		464.10	464.60	464.50	463.90	463.70		
18				463.50		464.20	464.60	465.10	463.60	463.70		
19				463.20		464.10	464.60	465.30	463.80	461.60		
20				462.90		464.10	464.50	465.30	463.70	461.80		
21				463.30		464.10	464.80	465.30	462.00	463.60		
22				463.40		462.20	464.60	465.10	462.50	463.70		
23				463.50	461.90	463.50	464.50	464.90	463.90	463.90		
24				463.50	462.80	464.30	464.60	463.30	464.00	463.80		
25				463.40	462.40	465.30	464.40	463.70	464.10	463.80		
26				463.40	462.90	465.41	464.20	464.20	464.10			
27				462.70	463.20	465.10	462.40	464.50	463.80	463.00		
28				463.30	463.00	464.80	464.10	464.20	462.20	463.20		
29				463.10	463.30	464.30	464.30	464.40	463.40	463.60		
30				463.20	463.50	464.80	464.30	464.40	463.70	463.30		
31							464.10	462.60		463.40		

WATER LEVELS—RAINY RIVER—LITTLE FORKS, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1				465.90	463.40	464.10	468.60	465.20	463.00	461.50		
2				465.90	462.80	465.70	468.40	464.00	463.00	461.60		
3				465.70	463.40	466.70	468.00	463.70	463.10	460.80		
4				464.90	463.60	466.70	468.20	463.00	462.90	460.90		
5				465.80	463.70	466.70	468.10	462.50	460.20	461.10		
6				465.60	463.70	465.30	468.00	463.00	461.40	461.20		
7				465.40	463.50	464.70	467.00	463.10	461.50	461.40		
8				465.10	463.20	464.90	466.40	462.20	461.70	461.50		
9				464.70	462.00	465.50	465.70	462.60	462.70	461.60		
10				464.30	462.90	465.70	465.10	462.70	462.80	460.20		
11				463.20	463.10	465.50	464.70	462.90	462.40	460.60		
12				463.40	463.20	465.20	464.80	463.60	460.90	460.80		
13				464.00	463.20	464.60	465.40	463.80	461.80	461.20		
14				464.10	463.10	464.10	465.90	463.00	461.90	461.70		
15				464.10	463.10	464.60	466.00	462.30	462.00	461.50		
16				464.10	461.50	464.60	466.30	462.80	462.20	461.20		
17				464.20	462.50	464.70	466.30	462.90	462.10			
18				464.10	463.00	464.40	465.40	463.10	462.00	460.70		
19				464.80	463.00	464.40	465.20	463.20	461.90	461.00		
20				465.30	462.90	463.50	464.50	463.00	462.00	461.10		
21				465.70	462.90	464.00	464.30	462.90	462.10	461.10		
22				466.00	462.90	464.30	464.40	462.40	462.10	461.00		
23				466.20	462.60	464.40	464.40	462.60	462.00	460.90		
24				466.30	463.10	464.80	464.50	462.90	461.90			
25				463.60	463.90	465.60	464.70	462.70	461.80			
26				465.20	463.60	465.90	464.80	462.80	460.10			
27				465.20	463.90	466.60	464.90	463.00	460.80			
28				466.10	493.60	467.70	465.10	462.70	461.00			
29				465.90	463.30	468.10	465.90	461.90	461.40			
30				465.10		468.20	465.80	462.50	461.50			
31							465.70	462.70				
1921												
1				462.30	462.40	461.20	462.10	460.60	461.90			
2				462.10	462.90	461.40	462.30	460.80				
3				462.20	463.20	461.10	462.40	460.70	461.20			
4				462.20	463.90		462.40	461.80	461.80			
5				462.10	463.70		461.60	462.20	461.40	462.30		
6				462.00	463.40	461.80	461.80	461.50	461.40			
7				461.80	463.30	462.20		461.50	461.10			
8				462.70	463.30	462.30	461.20	461.70				
9				462.90	463.40	462.50	461.60	461.60				
10				462.80	463.40	461.40	461.80	461.70				
11				462.80	462.90	461.80	461.70	461.30				
12				462.90	462.70	462.60	461.70	461.50				
13				462.00	462.60	462.70	461.40	461.70				
14				462.00	462.10	462.80		461.70				
15				461.90	461.90	463.00	461.20	461.90	460.80			
16				462.50	462.00	462.90	460.40	462.30				
17				462.90	462.10	461.20	460.50	462.90				
18				462.80	462.10	462.50	460.50	461.60				
19				462.70	461.60	462.50	460.90	462.30	461.00			
20				462.90	461.60	462.30		462.60	461.00			
21				462.80	461.60	462.40		462.90	461.30			
22				462.70	461.50	462.40	460.80	463.10	461.40			
23				462.80	461.40	462.20	460.90	463.00				
24				462.00	461.31	461.30	460.80	462.40	461.40			
25				461.90	461.30	461.80	430.00	461.40	461.30			
26				462.80	461.20	462.10	460.80	461.60	461.90			
27				462.70	461.20	462.30	460.80	461.90	461.50			
28				462.60	461.30	462.70		462.20	461.50			
29				462.40	461.30	463.30	460.50	462.10	461.60			
30				462.40	461.30	462.90	460.70	462.00	461.10			
31				462.40	462.00	461.90	460.80		461.20			

## WATER LEVELS—RAINY RIVER—LITTLE FORKS, ONTARIO—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611·61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1.					464·30	463·50	461·80	462·50	462·70	461·10		
2.				460·80	464·40	463·20	461·50	462·30	463·10	461·80		
3.				460·90	464·50	463·10	462·50	462·20	461·00	462·20		
4.				460·90	464·40	462·20	461·10	462·20		462·70		
5.				461·30	464·40	462·80	462·10	462·00	461·20	462·40		
6.				461·30	464·30	463·30	462·90	461·20	462·10	462·60		
7.				461·80	463·70	463·20	463·00	461·40	462·70	462·70		
8.				461·90	463·80	463·20	462·90	462·20	463·20	461·20		
9.				460·40	463·80	463·40	461·90	462·40	463·20	461·50		
10.				462·30	464·00	463·50	462·50	462·50	461·20	461·80		
11.				463·90	464·70	462·40	462·90	462·50	461·80	462·20		
12.				464·70	465·30	462·50	462·90	462·60	462·30	462·50		
13.				465·30	465·50	462·70	463·00	461·00	462·70	461·60		
14.				465·80	464·50	463·00	463·40	462·20	462·90	461·60		
15.				465·60	463·00	463·10	463·40	462·40	463·00	460·80		
16.				464·90	462·30	463·10	461·70	462·60	463·00	461·10		
17.				467·40	464·30	463·40	462·10	462·80	461·60	461·40		
18.				468·50	464·50	462·70	462·90	463·30	462·40	461·40		
19.				468·30	464·50	462·90	463·00	463·30	462·60	461·50		
20.				467·70	464·50	463·10	463·00	461·00	462·70	461·60		
21.				466·90	464·00	463·30	462·90	461·60	462·90	461·30		
22.				466·30	463·40	463·40	462·80	462·20	462·90			
23.				465·30	463·50	463·50		462·40	462·70	461·00		
24.				465·50	463·90	463·50	462·40	462·50	461·20	461·20		
25.				465·80	463·70	461·70	462·90	462·70	461·80	461·50		
26.				465·80	463·70	462·90	462·90	462·90	462·50	461·70		
27.				465·80	463·50	463·30	462·70		462·70	461·70		
28.				465·60	462·30	463·50	462·70		462·40	461·50		
29.				465·30	462·40	463·50	462·70		461·90	461·10		
30.					463·30	463·50			461·90	461·10		
31.					463·40					461·70		
1923												
1.					464·10	461·40	462·30	462·20	461·20	460·90		
2.					463·10	461·40	462·50	462·30		461·20		
3.					462·70	461·50	462·30	462·30		461·20		
4.					464·40	461·60		461·80		461·30		
5.					465·30	461·60	461·50	461·10	461·10	461·30		
6.					464·90	461·50	462·30	461·80	461·20	461·20		
7.					465·10	461·50	462·20	461·70	461·30	461·00		
8.					464·10	461·40	461·30	461·70	461·30	461·10		
9.					463·70	461·30	461·90	461·50	460·70	461·20		
10.					463·40		462·30	461·60	461·00	461·10		
11.					463·20	461·20	462·60	461·60	461·20	461·10		
12.					462·90	461·50	462·60	461·10	461·40	461·20		
13.					462·80	461·70	462·40	461·70	461·40	461·20		
14.					462·90	461·70	462·20	461·70	461·40			
15.				461·70	462·60	461·60	461·40	461·50	461·30			
16.				460·90	462·40	461·40	462·10	461·30	460·90	460·90		
17.				461·60	462·40		462·50	461·30	461·30	461·30		
18.				461·90	462·10	462·30	462·70	461·30	461·40	461·40		
19.				462·60	461·90	462·10	462·80	460·90	461·50	461·50		
20.				463·90	462·20	461·70	462·70	461·00	461·50			
21.				465·30	462·40	461·90	461·50	461·20	461·40			
22.				467·40	462·60	462·40	461·40		461·20			
23.				467·60	462·80	464·10	461·70	461·30				
24.				467·40	462·40	463·90	462·10	461·30	461·10			
25.				467·80	462·10	463·80	462·10	461·30	461·10			
26.				467·10	461·90	463·80	462·30	460·80	461·30			
27.				466·80	461·60	463·70	462·20	461·00	461·30			
28.				466·30	461·70	463·60	462·10	461·20	461·10			
29.				465·90	461·70	463·40	461·70	461·20	460·90			
30.				465·70	461·60	463·10	461·90	461·30				
31.					461·50		462·10	461·30				

WATER LEVELS—RAINY RIVER—LITTLE FORKS, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1						460.60	461.20	461.40	460.70	462.10		
2						460.70	461.40	461.50	462.20	462.10		
3						460.80	461.70	461.20	462.30	462.20		
4						460.70	461.30	461.30	462.20	462.10		
5						460.90	460.60	461.10	462.00	461.90		
6						460.80		461.20	461.90	461.80		
7						460.70	460.10	460.70	461.30	461.80		
8						460.50	461.10	460.90	461.70	461.50		
9						460.60	461.20	461.80	461.70	461.30		
10						460.80	461.30	461.30	461.60	461.10		
11						460.90	461.10	461.70	461.50	461.10		
12						460.90	461.10	461.90	461.50	461.30		
13						460.90	461.00	461.90	461.40	464.10		
14						461.00	461.10	462.00	461.20	464.40		
15					460.80	460.70	461.10	461.60	461.30	464.40		
16					461.00	461.10	461.10	461.50	461.10	464.30		
17					460.00	461.00	461.00	461.10	461.20	463.90		
18					460.20	461.00	461.10	461.30	461.10	463.70		
19					460.10	461.40	461.00	461.50	461.30	461.70		
20					460.20	461.70		461.50	461.20	262.10		
21					460.20	462.10	461.10	461.40	461.10	462.00		
22					460.10	461.90	461.30	461.60	461.30	461.90		
23					460.10	462.20	461.30	461.50	461.40	461.70		
24					460.00	462.10	461.30	461.20	461.40	461.40		
25					460.80	462.10	461.40	461.30	461.50	461.60		
26					460.70	462.00	461.20	461.50	461.50	461.20		
27					460.90	461.80	461.10	461.50	461.70	461.50		
28					460.90	461.70	461.30	461.40	461.60	461.60		
29					460.80	461.70	461.30	461.50	462.30	461.50		
30					460.70	461.50	461.50	462.50	462.20	461.30		
31					460.70		461.40			460.90		
1925												
1					466.00	462.50	463.70	462.70	461.90	463.90		
2					466.00	462.70	464.40	461.40	461.90	464.50		
3					465.20	462.90	464.60	461.80	461.90	464.80		
4					465.10	463.20	463.10	462.60	461.90	464.50		
5				462.30	464.70	463.60	462.60	463.70	462.10	464.90		
6				462.10	464.20	464.40	463.90	463.80	461.80	464.80		
7				462.30	463.90	463.60	464.30	463.80	461.60	464.70		
8				462.00	463.70	464.90	464.60	464.00	461.90	464.60		
9				461.90	463.70	465.50	464.40	461.60	463.50	464.60		
10				461.90	462.70	466.10	464.30	462.30	464.00	464.20		
11				461.90	462.80	465.90	464.10	463.10	464.30	463.70		
12				461.60	462.80	465.70	462.70	463.30	464.00	463.90		
13				461.80	462.70	465.40	463.80	463.30	462.80	464.10		
14				462.00	462.90	464.20	462.20	463.50	463.70	464.00		
15				462.00	462.80	464.50	462.30	463.50	463.90	464.00		
16				462.10	462.30	464.60	462.20	461.40	464.10	463.90		
17				461.90	461.60	464.50	462.00	462.30	464.20	463.80		
18				461.90	461.80	464.50	463.80	462.50	464.00	462.70		
19				461.70	462.10	464.40	462.50	462.70	464.00	463.30		
20				461.60	462.50	464.30	463.30	462.90	462.10	463.50		
21				461.80	462.30	463.10	464.30	462.80	462.70	463.70		
22				461.70	461.80	463.60	464.30	463.40	463.70	463.70		
23				462.40	462.10	463.90	464.20	461.70	464.30	463.40		
24				464.20	461.50	463.90	464.10	462.00	464.10	463.30		
25				464.60	462.10	464.10	463.90	462.70	464.00	462.60		
26				464.50	462.30	464.10	462.00	462.90	464.00	463.10		
27				464.30	462.50	464.00	462.70	463.10	461.70	463.30		
28				464.40	462.50	463.30	462.60	463.30	462.30	463.10		
29				464.90	462.40	463.60	462.40	463.20	463.60	463.00		
30				465.40	462.30	464.00	462.60	461.70	463.90	463.00		
31				461.50			462.80	462.00		462.80		

## WATER LEVELS—RAINY RIVER—LITTLE FORKS, ONTARIO—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1				463.50	463.10	462.60	463.20	462.80	464.90	465.50		
2				463.20	462.20	463.10	462.70	463.70	464.90	465.30		
3				463.30	462.50	463.30	462.80	464.10	464.70	464.40		
4				461.90	462.60	463.30	462.00	464.30	464.80	465.10		
5				462.30	462.60	463.20	461.00	464.20	463.70	466.10		
6				462.80	462.60	462.20	462.30	464.00	463.10	466.70		
7				462.80	462.70	462.50	462.50	464.00	463.90	467.40		
8				462.80	462.70	462.60	462.30	462.90	464.70	467.20		
9				463.10	461.80	462.60	462.90	463.60	465.20	466.70		
10				462.90	462.40	462.60	464.10	464.10	465.30	465.80		
11				461.50	462.60	462.40	463.90	464.10	465.11	465.90		
12				462.70	462.50	462.60	464.90	464.10	464.30	466.00		
13				465.60	462.50	461.70	465.30	464.10	464.60	466.00		
14				465.70	462.70	462.30	465.19	464.20	464.70	465.80		
15				465.90	462.70	462.40	464.90	462.80	464.70	465.80		
16				465.80	461.60	462.10	464.90	463.50	464.80	465.80		
17				465.90	462.20	462.60	464.80	464.30	464.60	465.10		
18				465.60	462.50	462.70	464.40	464.30	464.50	465.30		
19				465.90	462.10	462.70	464.70	464.20	463.40	465.50		
20				464.20	461.80	462.60	464.90	464.30	464.10	465.70		
21				464.20	461.90	465.10	464.90	464.30	464.50	465.80		
22				464.00	461.90	466.60	464.80	463.70	464.60	466.60		
23				463.60	461.00	467.20	464.80	464.30	465.10	466.90		
24				463.40	461.40	466.90	464.60	465.00	465.40	467.40		
25				462.60	462.10	466.40	462.80	464.90	466.40	467.70		
26				462.70	463.60	465.90	463.10	464.90	465.50	468.20		
27				463.30	464.20	464.80	463.40	464.90	465.90	468.00		
28				463.30	464.10	464.90	463.20	464.70	465.70	467.50		
29				463.20	463.90	464.10	463.20	462.70	465.70	466.90		
30				463.20	462.80	463.80	463.10	463.90	465.40	467.80		
31					462.60		463.20	464.50				

## LITTLE FORK RIVER AT LITTLE FORK, MINN.

*Location.*—In Sec. 9, T. 68 N., R. 25 W., at lower of two highway bridges at Little Fork, Koochiching County, about 1½ miles above mouth of Beaver Brook and 2½ miles above Big Fork and International Falls Railway Bridge.

*Drainage Area.*—1,720 square miles.

*Records Available.*—June 23, 1909, to September 30, 1917, when station was discontinued.

*Gauge.*—Chain gauge attached to new steel bridge about 100 feet above the location of the vertical staff gauge which was read prior to March 5, 1917, by G. H. French and Vernon Jamison. Chain gauge was set to read the same as staff gauge at a gauge height of 6.5 feet.

*Discharge Measurements.*—Made from the bridge at medium and high stages; at low stages made by wading a short distance above the bridge.

*Channel and Control.*—Bed composed of sand, gravel, and boulders. Banks high and not subject to overflow. Control permanent up to the summer of 1915, but during the high water in June there was a decided shift.

*Extremes of Discharge.*—Maximum stage during year, 18.7 feet, 10 a.m., April 22, caused by backwater from a log jam at the railroad bridge; maximum discharge probably occurred April 23 (mean for day estimated at 4,460 second-feet); minimum discharge (estimated at 40 second-feet), February 9-20.

1909-1917: Maximum stage recorded, 37 feet, April 18, 1916 (discharge, 19,300 second-feet); minimum discharge, about 40 second feet, September-5, 1910, and February 9-20, 1917.

*Ice.*—Stage discharge relation seriously affected by ice.

*Accuracy.*—Stage-discharge relation permanent since high water of June, 1915. Rating curve used, well defined below 5,670 second-feet and poorly defined above that point. Gauge read to quarter tenths twice daily. Daily discharge ascertained by applying mean daily gauge height to rating table, except for period when stage-discharge relation was affected by ice, for which it was ascertained by applying to rating table mean daily gauge height corrected for effect of ice by means of discharge measurements, observers' notes, and weather records. Open-water records good. Winter records subject to error.

DISCHARGE MEASUREMENTS—LITTLE FORK RIVER—LITTLE FORK, MINN.

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Date	Hydrographer	Width	Area	Mean velocity	Gauge height	Dis-charge	Notes
		Feet	Sq. ft.	Ft.persec.		c.f.s.	
1909*							
July 4	Gray	122	201	1.18	5.52	237	
24	Follansbee	122	184	1.03	5.41	190	
Aug. 26	Gray	133	452	2.02	7.66	910	
Sept. 30	"	132	445	1.85	7.50	824	
1910							
June 21	Adams	136	214	0.84	5.30	180	
July 22	Follansbee	54	83	1.06	4.82	87	
1911							
April 4	Adams	147	910	1.54	10.80	1400	(1)
18	Follansbee	153	1370	2.72	15.46	3730	(2)
19	"	153	1330	2.69	15.00	3580	(2)
June 9	Soulé	152	1095	2.18	11.06	2388	
July 15	"	137	174	0.82	5.20	144	
Dec. 12	"	113	146	1.07	6.00	156	(3)
1912							
Jan. 21	Soulé	66	74	0.87	5.52	64	(4)
Feb. 26	"	68	65	1.13	5.76	73	(5)
Mar. 30	"	65	53	1.25	5.94	67	(6)
May 20	"	152	1260	1.82	12.34	2290	(7)
20	"	152	1240	1.80	12.23	2230	(7)
June 14	"	141	429	1.42	6.83	610	
14	"	141	437	1.38	6.83	605	
Aug. 6	Hoyt	125	190	0.69	5.28	131	(8)
Dec. 19	Soulé	98	130	0.87	5.82	113	(9)
1913							
Jan. 15	Soulé	96	104	0.76	5.58	79	(10)
Feb. 18	"	91	87	0.61	5.50	53	(10)
May 1	"	154	1420	2.51	13.32	3560	(11)
July 30	Peterson	142	397	1.51	6.88	598	
1914							
Jan. 26	Soulé	94	138	0.83	6.28	115	(12)
Feb. 25	"	76	112	0.73	6.12	82	(12)
May 16	"	152	1080	2.22	11.25	2400	(13)
Aug. 14	Stewart	129	204	1.35	5.79	276	(14)
Dec. 15	Soulé	85	141	0.84	6.02	118	(15)
1915							
Jan. 19	Soulé	75	107	0.79	6.16	85	(15)
Mar. 27	"	84	111	1.01	6.65	112	
Sept. 13	Critchlow	85	106	1.50	5.66	159	
Nov. 12	Soulé	145	768	1.76	9.50	1350	(16)
Dec. 21	Williams	212	853	0.21	7.57	182	(17)

\*Maximum high-water mark 14.7, Aug. 14. Minimum recorded stage 5.08, July 12.

(1) Measurement under ice cover.

(2) Backwater from log jam.

(3) Under complete ice cover, 0.71 foot, 9 inches.

(4) Complete ice cover, average thickness of ice 1.19 feet, average distance water surface to top of ice 0.28 foot. Section 300 feet above gauge.

(5) Complete ice cover; average thickness of ice 1.60 feet, average distance of water surface to top of ice 0.07 foot.

(6) Complete ice cover, average thickness of ice 1.78 feet, average distance of water surface to top of ice 0.00 foot.

(7) Log jam on railway bridge about 2 miles below gauge.

(8) Backwater from logs held in boom just below railway bridge.

(9) Complete ice cover—average thickness of ice at measuring section (156' above gauge) 0.68 foot—average distance of water surface to top of ice 0.05 foot.

(10) Complete ice cover—measurement 160' above gauge.

(11) Measurement from upstream side of bridge instead of downstream side. Logs running during measurement but not lodged anywhere.

(12) Measurement about 160' above gauge. Complete ice cover at control and at gauge.

(13) Control apparently clear. There were a good many logs running while this measurement was being made. This measurement was made from the upstream side of the bridge instead of the downstream side, which is the regular section. This was necessary in order to watch the logs to avoid getting the meter snagged.

(14) Measurement from bridge, at gauge.

(15) Measurement made from ice about 100' above gauge. Complete ice cover at measuring section and at control.

(16) Measurement from bridge at gauge. Control apparently clear.

(17) Measurement made about 3,000' above gauge, about 200' below the sawmill in Little Fork, and about 6' below last piling downstream to which boom is attached. Complete ice cover at control and at measuring section. Measurement poor, velocities too low for good results.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## REPORT OF ENGINEERS

## DISCHARGE MEASUREMENTS—LITTLE FORK RIVER—LITTLE FORK, MINN.

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Date	Hydrographer	Gauge height	Dis-charge	Re- marks
		Feet	Sec.-ft.	
1916				
Jan. 25	S. B. Soulé	6-88	102	(1)
Mar. 14	"	6-90	78	(2)
April 19	"	31-33	17400	(3)
May 5	"	16-30	5189	
July 19	"	7-28	386	
19	"	7-24	365	
Sept. 8	"	10-13	1780	
8	"	10-16	1810	
Oct. 12	R. B. Kilgore	7-11	551	
Dec. 26	S. B. Soulé	6-41	117	(4)
1917				
Jan. 23	S. B. Soulé	6-25	64	(5)
Mar. 5	"	6-50	62	(6)
June 27	"	7-55	685	
Sept. 17	R. B. Kilgore	5-58	149	

(1) and (2) Ice at control.

(3) Log jam below gauge.

(4) (5) and (6) Measurement made through complete ice cover.

## DAILY DISCHARGE—LITTLE FORK RIVER—LITTLE FORK, MINN.

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1							240	247	1030	708	1360	
2							237	224	900	634	1240	
3							224	208	757	614	1170	
4							208	215	667	518	1090	
5							199	237	940	463	980	
6							193	291	512	393	932	
7							184	304	440	371	864	
8							184	502	405	344	802	
9							178	852	371	347	621	
10							166	896	330	377	680	
11							148	1650	291	422	750	
12							137	3760	286	472	694	
13							141	4120	266	487	598	
14							166	4380	266	487		
15							160	4240	254	518		
16							160	3980	247	598		
17							156	3650	242	630		
18							164	3120	228	687		
19							189	2070	237	698		
20							193	1860	247	778		
21							193	1260	268	1230		
22							197	1080	288	2010		
23						377	193	932	366	2340		
24						360	184	908	382	2700		
25						333	252	908	640	2700		
26						307	294	868	920	2560		
27						296	307	852	988	2410		
28						281	347	868	988	2180		
29						268	358	1050	920	1860		
30						261	328	1080	802	1600		
31							286	1140		1490		
Monthly mean discharge, cu. ft. per sec.							212	1540	516	1080		
Inches depth on drainage area							0-15	1-07	0-35	0-75		

DAILY DISCHARGE—LITTLE FORK RIVER—LITTLE FORK, MINN.—Continued

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910												
1					1390	565	201	271	91	119	176	
2					1290	512	186	215	92	176	158	
3					1190	457	146	180	96	197	172	
4					1080	457	105	172	79	208	176	
5					1000	472	123	172	40	197	197	
6					900	457	110	156	72	197		
7					816	472	86	128	79	176		
8					768	518	83	119	92	176		
9					732	502	75	119	86	166		
10					650	442	79	110	94	152		
11				2200	578	411	112	94	94	137		
12				1940	581	358	119	110	96	137		
13				1750	546	344	119	110	102	152		
14				1600	512	330	99	102	99	146		
15				1490	487	278	123	116	86	137		
16				1720	457	247	123	110	73	128		
17				2310	442	237	146	105	72	119		
18				4580	457	228	156	110	86	119		
19				5000	454	210	102	116	83	193		
20				4770	451	193	102	116	80	156		
21				4610	524	172	99	112	102	160		
22				4200	575	158	137	110	112	156		
23				3430	647	148	146	107	100	154		
24				2870	680	137	123	110	86	156		
25				2510	698	126	123	110	86	176		
26				2280	647	119	133	110	86	176		
27				2040	647	112	133	110	86	176		
28				1860	647	112	304	96	86	176		
29				1690	680	242	371	94	96	176		
30				1490	667	266	358	91	119	176		
31					588		304	91	119	176		
Monthly mean discharge, cu. ft. per sec.					703	309	149	125	88	163	*160	
Inches depth on drainage area					0.49	0.21	0.10	0.09	0.06	0.11	0.11	
1911†												
1				900	1540	1190	363	665	458	395	289	
2				1000	1480	1540	365	793	429	398	289	
3				1150	1410	1770	312	738	354	412	289	
4				1400	1300	1950	269	705	325	438	289	
5				1400	1150	2260	252	690	368	482	289	
6				1450	989	2320	245	630	438	479	289	
7				1500	890	2610	235	630	529	452	289	
8				1570	793	2260	216	701	756	438	289	
9				1400	774	2460	198	665	811	409	289	
10				1320	719	2540	186	605	909	390		
11				1310	793	2540	182	562	917	354		
12				1790	850	2530	173	438	909	328		
13				1800	862	2530	163	485	870	328		
14				1850	890	2520	154	510	831	320		
15				1950	901	2510	150	513	756	315		
16				3000	905	2500	150	458	701	320		
17				3400	862	2500	150	429	578	341		
18				3730	1010	1920	150	423	482	341		
19				3580	1230	1780	148	373	482	368		
20				3370	1170	1480	148	331	452	368		
21				3160	1110	1190	150	289	429	368		
22				3160	1230	993	150	328	368	354		
23				2980	1320	811	142	289	328	341		
24				2760	1250	679	150	276	315	328		
25				2530	909	647	158	274	328	289		
26				2240	909	581	160	331	302	289		
27				2050	1010	476	191	382	289	284		
28				1900	1590	443	250	458	315	269		
29				1720	1540	406	259	426	438	264		
30				1630	1190	390	240	423	409	279		
31					1030		513	423		289		
Monthly mean discharge, cu. ft. per sec.				2100	1080	1680	212	492	529	356	*209	*145
Inches depth on drainage area				1.41	0.75	1.13	0.15	0.34	0.36	0.25	0.14	0.10

\*Monthly mean estimated. †See footnote re daily discharges, p. 225.  
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DAILY DISCHARGE—LITTLE FORK RIVER—LITTE FORK, MINN.—Continued  
 RECORDS OF UNITED STATES GEOLOGICAL SURVEY  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1					2000	910	395	160	289	1030	341	180
2					2040	970	756	140	302	989	341	180
3					2080	1030	719	150	289	870	341	180
4					2180	793	513	130	276	793	341	180
5					2660	793	423	112	1360	719	341	180
6					2710	793	341	130	1110	683	341	180
7					3060	831	341	130	1320	683	341	180
8					3210	756	368	130	1280	578	341	180
9					3110	793	341	130	1320	513	341	180
10					3160	719	341	130	1280	578	341	180
11					3110	395	289	130	1190	578	341	180
12					3160	482	289	130	870	545	328	180
13				2130	3310	545	289	130	949	578	328	180
14				1900	3260	578	368	112	831	513	315	180
15				1820	2910	545	341	112	719	545	315	180
16				1590	3160	513	264	97	647	545	315	180
17				1410	2910	482	240	112	578	513	300	180
18				1460	2660	482	240	121	513	482	300	180
19				1360	2360	513	216	130	395	452	300	105
20				1320	2360	545	193	130	315	452	300	105
21				1230	2130	612	204	130	315	395	300	105
22				1190	1860	578	193	130	341	423	300	105
23				1070	1720	513	193	130	423	423	300	105
24				793	1500	482	193	130	513	395	300	105
25				719	1190	423	193	130	612	368	300	105
26				909	1410	395	193	130	719	368	300	105
27				1540	1230	341	204	130	756	328	300	105
28				1850	1190	289	193	150	909	289	300	105
29				1900	1070	264	193	216	989	368	300	105
30				67	1950	793	264	193	264	647	368	300
31					850		193	264		341		105
Monthly mean discharge, cu. ft. per sec.	*85	*75	*70	*1130	2270	588	304	140	735	539	318	149
Inches depth on drainage area	0-06	0-05	0-05	0-76	1-58	0-40	0-21	0-10	0-50	0-37	0-21	0-10
1913												
1	90	60	85	100	3540	3490	1360	482	289	423	612	1680
2	90	60	85	100	3060	3540	1280	368	289	452	452	1680
3	90	60	85	100	3010	3320	1190	276	315	482	368	1680
4	90	60	85	100	3220	3060	1070	240	341	909	264	1680
5	90	60	85	100	3490	2760	1360	264	341	1070	264	950
6	90	60	85	100	3490	3060	1540	264	368	1280	315	950
7	90	60	85	100	3380	4040	1630	276	395	1540	300	950
8	90	60	85	100	2960	4810	1540	289	423	1820	300	950
9	90	60	85	100	2850	4760	1280	302	423	2080	300	950
10	90	60	85	1500	2560	4100	989	289	513	2180	300	950
11	90	60	85	1500	2180	3490	870	315	578	2260	300	950
12	90	60	85	1500	2080	3270	1030	315	719	2180	300	950
13	90	60	85	1500	2000	2760	1640	315	647	2130	300	950
14	90	60	85	1500	1900	2360	1680	315	612	1950	300	950
15	75	60	85	1500	2000	1820	1640	315	578	1680	300	950
16	75	60	85	1500	2180	1640	1640	302	612	1410	300	280
17	75	60	85	5360	3603	1770	1720	302	578	1280	300	280
18	75	55	85	4920	5250	1640	1860	276	578	1150	300	280
19	75	55	85	4700	5080	1640	1900	264	513	1030	300	280
20	75	55	85	4480	4860	1460	1720	252	482	1030	300	280
21	75	55	85	3930	3710	1460	1640	289	452	909	930	280
22	75	55	85	3760	3820	1410	1590	395	452	719	930	280
23	75	55	85	3880	4200	1280	1540	341	452	719	930	280
24	75	55	85	3930	4150	1110	1460	328	423	756	930	280
25	75	55	85	4100	3760	949	1320	315	423	870	930	280
26	75	55	85	4810	3110	949	1110	328	423	949	930	280
27	75	55	85	5250	2610	870	870	315	423	1030	930	280
28	75	55	85	5080	2260	1070	719	315	423	1150	930	280
29	75	55	85	4590	2410	1190	647	315	423	1110	930	280
30	75	55	85	4040	2760	1280	578	315	423	949	930	280
31	75	55	85		3220		545	289		793		280
Monthly mean discharge, cu. ft. per sec.	82	58	85	2470	3180	2350	1320	309	464	1240	526	698
Inches depth on drainage area	0-06	0-04	0-06	1-66	2-21	1-58	0-92	0-22	0-31	0-86	0-35	0-49

\*Monthly mean estimated.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

DAILY DISCHARGE—LITTLE FORK RIVER—LITTLE FORK, MINN.—Continued  
 RECORDS OF UNITED STATES GEOLOGICAL SURVEY  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1	150	112	78	383	4760	1540	1360	482	578	395	513	482
2	150	112	78	383	5340	1410	1540	395	545	368	513	482
3	150	112	78	383	5930	1320	1720	368	545	341	513	482
4	150	112	78	383	6520	1280	1860	341	578	341	545	482
5	150	112	78	383	6300	1150	1820	302	647	315	545	482
6	150	97	78	383	6460	989	1460	289	719	328	578	452
7	150	97	78	383	6020	831	1110	240	756	395	578	452
8	150	97	78	383	5520	793	909	216	683	452	578	452
9	150	86	78	383	4920	3270	870	204	647	452	545	423
10	150	86	78	383	4590	4260	949	264	612	482	545	395
11	150	86	78	383	4150	4040	1030	289	578	513	482	395
12	150	86	86	383	3710	3440	1190	315	578	545	452	341
13	150	86	86	383	3380	2860	4150	341	482	578	452	240
14	150	86	86	383	3060	2360	5250	315	452	578	452	150
15	150	86	86	383	2710	2040	5080	276	513	647	452	121
16	115	86	86	383	2460	1900	4700	264	683	612	423	112
17	115	86	86	2260	2260	1720	4150	289	831	578	423	103
18	115	86	114	2260	2000	1540	3710	315	831	545	423	97
19	115	78	114	2260	2040	1680	3220	341	870	513	423	94
20	115	78	114	2260	2180	1280	2760	368	870	513	452	89
21	115	78	114	2260	2460	949	2360	423	949	482	452	85
22	115	78	114	2260	2910	793	1900	513	1030	482	452	82
23	115	78	114	2260	3160	578	1460	545	1110	482	423	79
24	115	78	114	2260	2860	452	989	578	1110	578	423	77
25	115	78	114	3060	2410	341	683	647	1030	612	452	74
26	115	78	114	2860	2080	452	793	647	870	647	452	73
27	115	78	114	2710	2310	578	719	612	719	647	452	71
28	115	78	114	2860	1900	793	545	578	647	612	452	69
29	115	114	114	3540	1950	949	452	578	545	612	452	67
30	115	114	114	4150	1820	1280	395	578	452	578	452	66
31	115	114	114	1680	1680	423	612	578	545	545	66	66
Monthly mean discharge, cu. ft. per sec.	132	89	96	1450	3540	1560	1920	406	715	509	478	230
Inches depth on drainage area	0-09	0-06	0-07	0-98	2-46	1-05	1-34	0-28	0-48	0-35	0-32	0-15
1915												
1	59	86	182	121	1030	1540	7420	1000	187	233	518	860
2	58	86	193	160	1070	1640	5390	832	148	233	485	807
3	58	86	193	204	1190	1680	3980	824	122	233	455	773
4	60	86	193	302	1280	1640	3410	722	98	256	455	756
5	58	81	193	395	1460	1720	1990	620	122	256	455	739
6	60	81	204	482	1540	1820	1400	518	167	307	455	722
7	65	81	204	578	1640	1900	1160	455	167	756	425	637
8	69	81	182	719	1770	2080	1040	395	167	1080	518	518
9	73	81	182	989	1900	2310	1160	335	167	1160	620	395
10	81	81	171	1320	2130	2860	1200	307	148	1160	756	335
11	77	81	150	1540	2260	3600	1280	281	148	1160	1160	281
12	78	81	130	1680	2260	5580	1360	281	187	1120	1400	256
13	78	81	112	1540	2130	6460	1360	281	177	1120	1520	233
14	81	89	112	1280	2000	7180	1320	281	167	1040	1560	222
15	82	98	103	989	2040	7500	1240	281	167	968	1560	210
16	79	103	98	831	2860	8000	1200	281	158	932	1560	198
17	81	109	97	719	4370	8000	1160	307	158	860	1560	198
18	82	112	90	683	5140	8000	1080	395	187	790	1560	198
19	85	121	86	647	5300	8060	1040	395	177	756	1560	187
20	83	130	86	683	5420	6820	1000	395	167	790	1520	187
21	85	140	86	719	4920	5460	1080	335	167	860	1440	183
22	86	150	88	756	3380	4520	1160	335	167	860	1360	167
23	81	160	86	831	2410	3860	1200	365	167	824	1280	167
24	84	160	86	949	2040	3860	1200	395	167	756	1360	158
25	84	171	92	989	1900	4460	1160	335	198	722	1440	158
26	86	171	94	1030	1820	5250	1080	281	210	688	1440	158
27	86	171	112	1070	1680	6960	1000	281	210	654	1440	148
28	86	171	98	1110	1540	9580	896	233	187	586	1240	148
29	86	171	104	1110	1460	9840	860	281	210	586	1080	139
30	86	171	104	1070	1460	9020	1000	281	233	518	968	139
31	86	171	112	1500	1500	1040	222	222	518	518	139	139

NOTE.—From November 7 to 30, 1913, from Dec. 5, 1913, to April 25, 1914, and from December 1 to 31, 1914, the discharge was estimated from discharge measurements, observers reports, and climatological records.

Daily discharges based on a well defined rating curve. Discharge estimated April 1 to 7, 1911, owing to ice, and April 12 to 20 and June 10 to 17, 1911, and April 29 to May 2, May 15 to 25, owing to backwater from log jams. From July 13 to August 31, 1912, the discharge has been reduced on account of backwater from floating logs.

From November 17, 1912, to April 17, 1913, the discharge was estimated from discharge measurements, observers' reports, and climatological records.

December, 1914, adjusted from report of U.S.G.S.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

## DAILY DISCHARGE—LITTLE FORK RIVER—LITTLE FORK, MINN.—Concluded

## RECORDS OF UNITED STATES GEOLOGICAL SURVEY

[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1.	130	92	106	222	7980	3860	3360	335	620	790	1200	425
2.	130	92	98	187	7260	3080	3410	335	552	756	1320	380
3.	130	98	98	210	6590	3920	3240	307	518	790	1320	321
4.	130	98	98	350	5810	3780	2920	307	552	722	1320	307
5.	130	106	92	502	5250	3630	2390	307	586	654	1240	321
6.	139	106	92	586	4640	3520	1990	335	722	620	1200	335
7.	139	106	92	620	4520	3410	1740	395	1940	552	1160	350
8.	139	106	92	671	4220	3300	1560	722	1740	518	1120	350
9.	122	106	92	739	4040	3190	1440	968	1690	502	1120	335
10.	113	106	92	790	3600	3140	1240	1200	1480	485	1080	321
11.	113	106	80	878	3630	3080	1120	1290	1320	518	968	294
12.	106	106	80	1060	3460	3020	1000	1120	1160	552	932	294
13.	106	106	80	2290	3190	2920	860	1080	1120	518	896	307
14.	106	106	78	3520	3080	2920	688	1080	1240	502	860	281
15.	106	106	80	7580	3020	2970	620	1000	1520	518	824	281
16.	98	113	74	11200	3680	3080	518	722	1840	485	790	268
17.	98	113	80	1300	5530	3080	485	518	1940	485	722	281
18.	98	113	80	19300	5880	2970	455	455	1840	518	688	268
19.	106	113	80	17400	4880	2860	395	425	1640	586	654	244
20.	106	113	86	16000	5460	2920	335	455	1480	654	620	198
21.	113	122	92	15000	4970	2920	365	552	1400	722	586	167
22.	113	122	92	14100	4460	2920	365	654	1320	722	518	148
23.	113	122	92	13700	4580	2970	365	860	1240	722	518	139
24.	113	122	86	13500	4460	3080	335	1480	1240	688	518	132
25.	104	122	86	13500	4340	3360	335	1560	1280	688	502	124
26.	106	122	86	12500	4160	3630	365	1480	1080	722	502	117
27.	106	122	92	11400	4100	3580	335	1160	968	756	502	138
28.	92	122	98	10400	4280	3520	307	1080	932	790	485	158
29.	92	113	130	9500	4160	3360	281	932	824	896	485	148
30.	98	.....	139	8460	3860	3300	335	790	824	932	455	139
31.	92	.....	187	.....	3860	.....	335	722	.....	1040	.....	139
1917												
1.	135	50	60	185	3680	586	.....	.....	167	.....	.....	.....
2.	130	50	60	185	3580	518	.....	.....	167	.....	.....	.....
3.	120	50	60	185	3240	502	.....	.....	167	.....	.....	.....
4.	115	55	60	184	2800	485	.....	.....	158	.....	.....	.....
5.	110	55	60	200	2590	470	.....	.....	158	.....	.....	.....
6.	105	50	65	255	2490	470	.....	.....	177	.....	.....	.....
7.	100	50	65	280	2340	440	.....	.....	177	.....	.....	.....
8.	95	45	70	280	2240	425	.....	.....	167	.....	.....	.....
9.	90	40	75	425	2140	395	.....	.....	158	.....	.....	.....
10.	85	40	85	520	2040	380	.....	.....	158	.....	.....	.....
11.	85	40	90	790	1940	350	.....	.....	148	.....	.....	.....
12.	85	40	90	1080	1840	335	.....	.....	139	.....	.....	.....
13.	85	40	95	1360	1640	321	.....	.....	139	.....	.....	.....
14.	85	40	95	1640	1560	307	.....	.....	148	.....	.....	.....
15.	85	40	100	1990	1560	281	.....	.....	139	.....	.....	.....
16.	80	40	105	2160	1480	281	.....	.....	130	.....	.....	.....
17.	75	40	110	2390	1440	307	.....	.....	139	.....	.....	.....
18.	70	40	115	2590	1360	335	.....	.....	139	.....	.....	.....
19.	65	40	115	2800	1320	425	.....	.....	158	.....	.....	.....
20.	65	40	120	3020	1240	455	.....	.....	158	.....	.....	.....
21.	65	45	130	3460	1200	502	.....	.....	148	.....	.....	.....
22.	65	45	140	3860	1160	620	.....	.....	139	.....	.....	.....
23.	65	50	150	4460	1040	722	.....	.....	148	.....	.....	.....
24.	60	50	160	4400	968	756	.....	.....	148	.....	.....	.....
25.	60	55	160	4400	860	860	.....	.....	127	.....	.....	.....
26.	60	55	170	3930	790	790	.....	.....	123	.....	.....	.....
27.	55	60	170	3460	756	722	.....	.....	122	.....	.....	.....
28.	50	60	180	3410	688	654	.....	.....	122	.....	.....	.....
29.	50	.....	180	3630	688	654	.....	.....	123	.....	.....	.....
30.	50	.....	180	3680	654	654	.....	.....	122	.....	.....	.....
31.	45	.....	185	.....	620	.....	.....	.....	.....	.....	.....	.....

NOTE.—Discharge Dec. 6, 1914, to April 12, 1915, and Nov. 15, 1915, to April 29, 1916, estimated because of ice, and near the end of the later period, because of a log jam, from discharge measurements, observer's notes, and weather records. Discharge July 1-25, 1916, estimated because of backwater from some unknown cause as indicated by discharge measurement of July 19. Discharge, June 4, 1916, interpolated.

NOTE.—Stage-discharge relation affected by ice Nov. 14-20, 1916, and Nov. 24, 1916 to April 24, 1917. Gauge not read July 1 to August 31, 1917; no determinations of discharge.

SUMMARY OF MEAN MONTHLY DISCHARGE IN SECOND-FEET OF LITTLE FORK RIVER—  
LITTLE FORK, MINN.

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Month	1909	1910	1911	1912	1913	1914	1915	1916	1917
January.....				*85	82	132	77	112	175
February.....				*75	58	89	108	110	146
March.....				*70	85	96	130	95	136
April.....			2100	*1130	2470	1450	850	7310	163
May.....		703	1080	2270	3180	3540	2350	4650	314
June.....		309	1680	588	2350	1560	5040	3270	296
July.....	212	149	212	304	1320	1920	1670	1080	354
August.....	1540	125	492	140	309	406	407	791	226
September.....	516	88	529	735	464	715	170	1220	161
October.....	1080	163	356	539	1240	509	735	346	.....
November.....		*160	*209	318	526	478	1100	286	.....
December.....			*145	149	698	230	336	216	.....

\*Monthly mean estimated

DISCHARGE MEASUREMENTS—BIG FORK RIVER—BIG FALLS, MINN.

RECORDS OF UNITED STATES GEOLOGICAL SURVEY

Date	Hydrographer	Width	Area	Mean velocity	Gauge height	Dis-charge	Notes
		Feet	Sq. ft.	Ft. per sec.		c. f. s.	
1909							
Aug. 27.....	Gray.....	266	1510	0.64	4.66	960	.....
Oct. 1.....	".....	246	1210	0.44	4.01	535	.....
1910							
July 21.....	Follansbee.....				2.78	65	.....
1911							
June 10.....	Soulé.....	274	2090	0.84	7.07	1760	(1)
July 12.....	".....	128	307	0.62	3.89	193	(2)
Dec. 13.....	".....	127	176	0.37	2.65	65	(3)
1912							
Jan. 23.....	Soulé.....	117	108	0.25	2.33	27	(4)
Feb. 27.....	".....	119	114	0.33	2.39	37	(5)
April 1.....	".....	14	14	1.90	2.24	27	(6)
1.....	".....	30	22	1.28	2.24	29	(7)
May 21.....	".....	143	500	1.61	5.06	951	.....
Aug. 8.....	".....	122	159	0.61	3.13	97	(8)
Dec. 20.....	".....	46	37	1.22	2.40	46	(9)
1913							
Jan. 16.....	Soulé.....					28	.....
1914							
Aug. 13.....	Stewart.....	115	341	1.31	3.65	448	.....
Sept. 14.....	".....				4.29	461	(10)

- (1) Measurement made at M. & I. railway bridge. Lower gauge 6-07.
- (2) Measurement made at car and cable station. Lower gauge 2-99.
- (3) Complete ice cover, measurement made at cable section, gauge reading of lower gauge only given, average thickness of ice 0.7 foot.
- (4) Complete ice cover. Average thickness of ice 1.24 feet. Average distance water surface to top of ice 0.29 foot.
- (5) Complete ice cover. Average thickness of ice 1.27 feet. Average distance water surface to top of ice 0.32 foot.
- (6) Section about 40' below downstream edge of highway bridge, measurement in open water—complete ice cover at gauge.
- (7) Section about 25' below downstream edge of highway bridge, measurement in open water—complete ice cover at gauge.
- (8) A great many logs in channel causing considerable back water.
- (9) Complete ice cover at gauge—entirely open at measuring section. Measurement 800 feet above gauge.
- (10) Gauge at right end of railway bridge.

## REPORT OF ENGINEERS

DAILY DISCHARGE—BIG FORK RIVER—BIG FALLS, MINN.  
 RECORDS OF UNITED STATES GEOLOGICAL SURVEY  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1									812	536	1140	
2									731	492	1070	
3									628	470	1000	
4									574	465	955	
5									530	460	918	
6									481	460	854	
7									465	445	805	
8									415	445	770	
9									400	470	770	
10									375	552	738	
11									366	679	712	
12									348	784	628	
13									360	840	580	
14									360	840	552	
15									375	840	525	
16									385	875		
17									395	910		
18									375	910		
19									430	948		
20									470	1100		
21									514	1340		
22									616	1820		
23									738	2140		
24									784	2140		
25									777	2100		
26									718	1960		
27								978	653	1780		
28								1040	604	1600		
29								1110	580	1430		
30								1060	552	1310		
31								948		1210		
Monthly mean discharge, cu. ft. per sec.									527	1040	*660	
Inches depth on drainage area									0.39	0.81	0.49	
1910												
1				2960	2390	1030	281	108	48	196	293	
2				3200	2320	1000	249	95	40	206	277	
3				3300	2070	948	231	86	72	227	242	
4				3260	2420	854	224	98	77	214	217	
5				2860	2180	970	203	86	100	189	206	
6				2880	2140	1080	238	72	110	175	182	
7				3000	2200	1050	214	61	98	163	163	
8				2940	2110	970	196	50	86	172	151	
9				2920	2020	903	175	48	84	179	130	
10				2660	1960	854	163	40	105	192	100	
11				2430	1730	777	253	42	108	203	94	
12				2330	1490	765	228	72	98	227	74	
13				2260	1280	882	203	86	93	253		
14				2170	1110	847	182	77	115	285		
15				2200	1000	777	148	70	108	334		
16				2380	1240	738	120	63	100	329		
17				3500	1540	705	105	59	98	321		
18				4310	1690	779	86	60	115	305		
19				4790	1750	646	72	42	105	347		
20				4730	1620	586	61	38	98	410		
21				4690	1510	503	61	86	93	425		
22				4280	1450	610	59	74	110	415		
23				3660	1570	525	82	59	120	395		
24				3380	1500	465	105	46	115	380		
25				3060	1440	425	108	70	105	366		
26				2640	1380	400	95	52	110	366		
27				2470	1340	375	84	34	122	400		
28				2360	1260	343	110	72	148	395		
29				2230	1170	325	110	72	172	375		
30				2360	1120	301	98	63	192	366		
31					1070		120	52		329		
Monthly mean discharge, cu. ft. per sec.				3080	1650	714	150	65	105	295		
Inches depth on drainage area				2.31	1.28	0.53	0.12	0.05	0.08	0.23		

\*Monthly mean partly estimated.

NOTE.—Daily discharge computed from a rating curve not well defined.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO

RECORDS OF DÉPARTEMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611·61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1										459·20	459·00	
2										458·83	459·00	
3										459·12	459·82	
4										459·50	458·75	
5										495·41	458·42	
6										459·50	458·54	
7										459·41	458·92	
8										459·16	458·91	
9										458·83	459·00	
10										459·00	459·04	
11										459·37	459·33	
12										459·41	460·00	
13										459·33	460·42	
14										459·33	460·67	
15										458·83		
16										458·58		
17										459·08		
18										459·16		
19										459·33		
20									459·54	459·50		
21									459·41	459·29		
22									459·41	458·87		
23									459·45	458·83		
24									459·04	458·75		
25									459·62	459·21		
26									459·04	459·33		
27									459·20	459·42		
28									459·29	459·17		
29									459·29	459·17		
30									459·29	458·62		
31										458·92		
1912												
1					461·45	460·40	459·10	461·50	459·33	461·55	460·20	460·90
2					461·45	459·90	459·35	461·45	459·33	461·35	460·10	461·25
3					461·40	460·20	459·35	461·40	459·54	461·20	459·67	461·60
4					461·70	460·10	459·20	461·10	460·41	461·00	459·42	461·70
5					461·30	460·10	459·10	460·95	461·16	460·20	459·92	461·70
6					461·55	460·05	459·20	461·05	461·33	459·90	460·16	461·55
7					462·30	460·00	458·80	461·15	461·16	460·20	460·08	461·50
8					462·70	460·00	459·20	461·15	460·83	460·20	460·08	461·10
9					462·70	459·50	459·70	461·15	460·33	460·40	459·92	460·85
10					462·90	459·90	459·85	461·05	461·16	460·80	459·58	461·55
11					462·80	459·90	460·20	460·65	460·83	460·80	459·33	461·80
12					462·10	459·90	460·25	460·15	460·66	460·80	459·84	461·91
13					462·00	459·80	460·20	460·40	460·50	460·20	460·00	461·91
14					462·40	459·80	460·00	460·35	460·50	460·20	460·00	461·91
15					462·60	459·85	460·20	460·20	460·20	460·60	495·92	461·25
16					462·70	459·50	460·60	459·65	460·20	460·50	460·18	460·91
17					462·80	459·50	460·90	459·85	460·30	460·45	459·10	461·50
18					462·15	459·50	460·35	459·90	460·10	460·35	459·70	461·67
19					461·45	459·50	460·90	459·90	459·60	460·30	460·00	461·79
20					461·40	459·60	460·20	460·35	459·95	460·10	460·00	461·79
21					461·60	459·80	460·50	459·90	459·70	459·70	460·20	461·75
22					461·40	459·80	460·55	459·65	459·60	459·00	460·10	461·25
23					461·35	459·20	460·70	459·60	459·55	459·80	460·10	460·75
24					461·30	459·40	460·90	459·35	460·10	460·10	459·50	461·00
25					461·10	459·50	460·90	459·35	460·80	460·00	459·17	460·92
26					460·00	459·50	460·85	459·60	462·00	460·00	459·92	460·92
27					460·30	459·25	460·90	459·50	461·90	459·40	460·08	461·08
28					460·70	459·20	460·90	459·65	461·60	459·50	460·33	461·08
29					460·70	459·20	461·40	459·80	461·30	460·00	460·33	461·25
30					460·55	459·90	461·45	459·90	461·60	460·20	460·42	460·83
31					460·45		461·50	459·90		460·20		461·75

WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO—Continued  
 RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
 [Elevations refer to D. P. W. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	461-75	462-12	462-29	.....	463-16	462-38	463-37	462-38	459-08	459-66	460-42	460-42
2	461-83	461-54	461-87	.....	462-83	462-50	463-37	462-33	459-75	459-58	460-25	461-00
3	461-79	461-33	461-45	.....	462-83	462-79	463-58	461-93	459-83	459-54	460-50	461-17
4	461-62	462-00	462-08	.....	462-79	462-58	463-29	461-50	460-00	459-50	460-58	461-00
5	461-50	462-17	462-25	.....	463-33	462-38	463-00	461-42	460-08	459-63	460-58	460-83
6	460-92	462-21	462-29	460-67	463-66	462-84	463-58	461-58	460-17	460-37	460-58	460-92
7	461-75	462-21	462-29	460-00	463-58	463-17	463-83	461-58	460-00	461-00	460-67	461-66
8	461-91	462-21	462-33	460-41	463-41	463-46	463-75	461-93	460-12	461-42	460-50	462-00
9	462-00	461-87	461-83	460-91	463-08	463-63	463-80	461-93	460-16	461-58	459-92	462-50
10	462-04	461-50	461-58	460-83	462-66	463-41	464-00	461-08	460-16	461-92	459-42	462-33
11	462-00	462-08	462-21	460-83	462-00	463-00	464-08	461-42	460-25	462-50	459-50	462-33
12	461-67	462-21	462-37	460-83	462-00	462-58	464-25	461-42	460-37	462-25	460-08	462-33
13	461-37	462-21	462-37	460-07	462-00	462-25	464-75	461-50	460-37	462-25	460-25	462-17
14	461-92	462-21	462-37	461-50	461-91	462-04	465-58	461-58	460-00	462-42	460-25	461-59
15	462-08	462-21	462-37	462-83	461-91	461-50	465-58	461-58	460-08	462-46	460-25	461-33
16	462-12	461-75	461-83	463-58	462-08	461-67	465-93	461-58	460-50	462-37	459-92	461-83
17	462-12	461-33	461-75	463-75	462-75	461-58	466-29	461-16	460-08	461-92	459-92	461-83
18	462-12	462-04	462-29	463-83	463-17	461-50	466-25	461-33	460-08	461-66	460-17	461-83
19	461-65	462-21	462-37	463-79	463-25	461-42	466-13	461-37	460-08	461-25	460-17	461-83
20	461-33	462-25	462-50	463-25	462-38	461-50	465-50	461-50	461-16	461-30	460-17	462-00
21	461-96	462-29	462-50	463-21	463-08	461-83	465-29	461-58	460-25	461-38	460-00	461-75
22	462-12	462-29	462-54	463-16	463-00	461-58	465-00	461-58	460-41	461-17	460-17	.....
23	462-17	461-91	461-91	463-08	463-17	461-75	464-75	461-58	459-83	461-08	460-25	.....
24	462-21	461-41	461-75	463-00	463-25	461-83	464-50	461-00	459-83	461-08	460-38	.....
25	462-08	462-08	462-41	463-33	462-75	461-83	464-29	460-66	459-75	461-08	460-83	.....
26	461-75	462-25	462-62	463-91	462-58	461-83	464-17	460-25	459-71	460-92	460-83	.....
27	461-83	462-29	462-75	463-91	462-50	461-75	463-83	460-25	459-66	460-83	460-83	.....
28	461-91	462-29	462-83	463-83	462-25	462-17	463-88	460-10	459-58	461-00	460-83	.....
29	462-17	.....	462-91	463-83	461-96	462-83	463-78	.....	459-63	460-83	460-75	.....
30	462-25	.....	.....	463-50	462-00	463-16	463-66	.....	459-66	460-58	460-83	.....
31	462-17	.....	.....	.....	462-50	.....	462-75	459-17	.....	460-58	.....	.....
1914												
1	.....	.....	.....	.....	.....	.....	462-20	462-30	461-60	462-40	462-05	461-90
2	.....	.....	.....	.....	.....	.....	462-10	461-70	462-10	462-40	461-90	462-30
3	.....	.....	.....	.....	.....	.....	462-00	461-65	462-25	462-30	462-60	462-30
4	.....	.....	.....	.....	.....	.....	461-10	461-90	462-15	461-35	462-70	462-40
5	.....	.....	.....	.....	.....	.....	460-10	462-05	462-10	461-30	462-75	462-20
6	.....	.....	.....	.....	.....	.....	461-10	462-00	461-50	461-60	462-80	461-90
7	.....	.....	.....	.....	.....	.....	462-55	462-00	460-50	462-10	462-80	461-20
8	.....	.....	.....	.....	.....	.....	462-40	461-80	460-50	462-15	461-40	462-00
9	.....	.....	.....	.....	.....	.....	460-10	462-40	461-60	461-70	462-25	461-70
10	.....	.....	.....	.....	.....	464-20	462-30	461-40	461-90	462-50	462-40	462-90
11	.....	.....	.....	.....	.....	465-40	462-25	461-95	461-90	461-90	462-60	463-00
12	.....	.....	.....	.....	.....	465-20	461-80	462-00	461-90	462-80	462-50	463-10
13	.....	.....	.....	.....	.....	464-80	463-10	462-00	461-30	463-10	462-40	463-00
14	.....	.....	.....	.....	.....	463-90	465-30	462-00	462-00	463-20	462-05	463-10
15	.....	.....	.....	.....	.....	463-25	465-50	462-00	462-40	463-20	461-30	463-70
16	.....	.....	.....	.....	.....	463-00	465-30	461-20	462-50	463-10	461-60	463-80
17	.....	.....	.....	.....	.....	463-30	464-70	461-00	462-60	463-00	462-30	463-90
18	.....	.....	.....	.....	.....	463-70	464-30	461-80	462-80	462-10	463-00	464-00
19	.....	.....	.....	.....	.....	462-30	463-35	461-90	462-75	461-90	463-70	463-90
20	.....	.....	.....	.....	.....	462-10	463-15	461-90	462-10	462-15	463-90	462-90
21	.....	.....	.....	.....	.....	461-40	463-20	461-90	461-90	462-50	464-00	462-00
22	.....	.....	.....	.....	.....	461-20	463-60	461-95	462-60	462-90	463-60	463-00
23	.....	.....	.....	.....	.....	461-70	463-45	461-50	462-80	462-95	463-00	463-20
24	.....	.....	.....	.....	.....	461-75	463-25	461-70	462-90	462-05	463-90	463-20
25	.....	.....	.....	.....	.....	461-75	463-05	461-80	462-90	462-20	463-80	462-20
26	.....	.....	.....	.....	.....	461-80	462-60	462-00	462-85	462-40	463-80	460-30
27	.....	.....	.....	.....	.....	461-75	463-80	462-10	462-15	462-90	463-30	460-70
28	.....	.....	.....	.....	.....	460-11	463-90	462-10	461-80	463-00	462-50	460-00
29	.....	.....	.....	.....	.....	461-60	463-80	462-15	462-50	463-00	461-60	460-30
30	.....	.....	.....	.....	.....	462-20	463-40	461-50	462-50	463-00	461-80	463-70
31	.....	.....	.....	.....	.....	.....	462-55	461-20	.....	462-90	.....	463-80

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
[Elevations refer to D. P. W. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1.	463-90	462-70	461-00	460-65	461-80	461-10	467-75	462-25	460-85	461-25	460-20	463-50
2.	463-90	463-10	462-00	460-50	461-50	461-50	466-80	461-55	460-75	460-55	460-20	463-80
3.	463-10	463-20	462-30	460-60	461-45	461-30	466-00	462-00	460-90	460-55	460-90	464-00
4.	463-10	463-20	462-20	460-20	461-70	461-20	464-90	462-15	461-25	460-20	461-20	464-00
5.	463-80	463-10	462-10	460-25	461-70	461-10	464-40	462-15	460-40	460-95	461-00	463-20
6.	464-20	463-20	462-10	460-95	461-80	461-60	464-70	462-15	459-05	461-20	461-00	462-40
7.	464-20	462-60	461-20	460-90	462-40	461-70	465-00	461-90	459-50	461-40	460-40	463-10
8.	464-10	462-10	460-80	461-10	462-10	462-00	464-70	461-75	460-75	461-70	460-30	463-20
9.	464-30	462-90	461-50	461-30	462-00	462-20	464-40	461-80	460-90	461-60	461-00	463-10
10.	463-40	463-20	461-00	461-40	462-60	462-40	463-90	461-80	461-00	461-00	461-15	463-35
11.	463-20	463-40	461-00	460-80	463-30	462-75	463-50	461-80	460-95	460-80	461-50	463-60
12.	463-80	463-60	461-00	460-75	463-80	463-20	463-30	461-80	460-80	461-50	461-80	463-20
13.	463-90	463-30	460-90	461-15	463-70	464-80	463-40	461-80	460-10	461-40	461-80	462-90
14.	463-90	463-00	460-10	461-50	463-70	467-10	463-20	461-90	460-70	461-20	460-85	463-80
15.	463-80	462-20	460-00	461-90	463-80	.....	463-20	461-65	460-85	461-10	460-90	464-10
16.	463-80	462-90	460-50	462-05	462-75	.....	463-10	461-30	460-90	460-80	461-00	464-20
17.	463-60	463-80	460-50	462-00	463-80	.....	462-80	461-40	460-85	460-30	460-85	464-10
18.	463-10	462-80	460-40	461-00	465-05	.....	462-60	461-40	461-10	460-10	461-20	464-00
19.	463-70	462-70	460-80	460-95	465-75	467-80	462-35	461-50	460-30	460-60	461-50	463-70
20.	463-70	462-30	460-70	461-40	465-75	.....	462-60	461-45	460-70	460-75	461-40	462-90
21.	463-70	462-00	460-50	461-50	465-50	466-10	462-55	461-30	461-00	460-90	461-00	464-00
22.	463-80	461-50	459-90	461-55	464-30	465-60	462-40	461-00	460-90	461-00	461-10	463-90
23.	463-60	462-00	460-50	461-60	463-90	465-00	462-15	461-20	460-90	460-70	461-90	464-80
24.	463-10	462-10	460-60	460-90	463-10	464-70	462-20	461-30	461-20	460-10	462-00	463-80
25.	463-10	462-10	460-90	460-40	463-10	464-70	462-30	461-30	461-40	460-40	462-00	462-60
26.	463-60	462-00	461-20	461-00	463-05	464-50	462-50	461-30	460-50	461-00	461-90	461-00
27.	463-50	462-10	461-10	461-70	462-65	465-60	462-50	461-20	460-15	461-00	461-70	461-60
28.	463-40	461-70	459-80	462-25	462-50	466-70	462-60	461-20	460-80	461-00	461-25	463-30
29.	463-40	461-70	460-20	462-30	461-70	467-75	462-55	460-90	461-00	461-00	461-00	463-80
30.	463-70	.....	460-80	462-20	461-50	468-45	462-60	460-70	461-15	460-90	462-90	463-90
31.	463-40	.....	460-70	.....	461-10	.....	462-50	460-90	.....	460-10	.....	464-10

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

[Elevations refer to P. W. D. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1.	464-00	463-85	464-80	462-70	470-10	472-70	472-15	463-20	462-80	463-00	463-00	.....
2.	463-60	463-90	464-80	461-95	470-40	473-10	472-25	462-90	462-50	462-60	463-10	.....
3.	462-90	464-10	464-65	461-75	469-80	473-15	472-15	463-00	462-45	463-00	463-20	.....
4.	463-60	464-05	464-85	462-50	469-60	473-15	471-50	463-10	461-70	462-90	463-25	.....
5.	463-75	464-05	464-50	462-70	469-60	473-00	471-45	463-10	462-20	462-50	462-70	.....
6.	463-90	464-58	464-25	462-70	469-60	472-95	470-90	462-90	462-05	462-50	462-00	.....
7.	463-90	464-51	464-40	462-40	469-50	473-05	470-35	462-90	463-40	462-60	463-10	.....
8.	463-80	464-57	464-60	462-65	469-60	472-90	470-00	462-85	463-60	462-20	463-20	.....
9.	463-50	464-62	464-70	462-45	469-40	472-80	469-80	462-00	463-65	461-80	463-20	.....
10.	462-85	464-62	464-75	461-35	469-60	472-75	469-15	463-30	463-20	461-90	463-25	.....
11.	463-80	464-62	464-80	462-60	469-50	472-65	468-90	463-50	462-70	462-50	463-00	.....
12.	464-20	464-62	464-45	463-00	469-45	472-60	468-80	463-75	462-70	462-50	461-80	.....
13.	464-15	464-00	464-40	463-55	469-50	472-50	468-60	464-00	462-60	462-45	461-60	.....
14.	463-90	463-55	464-90	464-65	469-45	472-50	468-50	463-85	462-80	462-50	462-20	.....
15.	463-80	464-55	465-05	466-00	469-50	472-45	468-30	464-00	463-00	462-00	462-40	.....
16.	463-40	464-70	465-10	467-40	469-90	472-50	.....	464-00	463-50	461-90	462-50	.....
17.	462-00	464-85	465-15	468-10	470-70	472-50	467-90	464-00	463-40	462-10	462-70	.....
18.	463-00	465-00	465-45	470-10	471-20	472-25	467-50	463-90	463-10	462-40	462-80	.....
19.	464-20	465-30	464-65	471-70	471-60	472-15	467-00	463-90	463-55	462-60	462-10	.....
20.	464-00	464-95	464-10	471-30	471-55	472-00	466-70	463-30	462-20	462-50	461-10	.....
21.	463-70	464-55	464-40	471-40	471-35	471-85	466-35	463-50	461-80	462-50	462-60	.....
22.	463-60	464-75	464-35	471-00	471-60	471-75	466-05	463-90	462-50	462-30	461-50	.....
23.	463-30	464-75	464-35	470-80	471-70	471-70	465-30	463-90	463-60	462-00	461-30	.....
24.	462-85	464-75	464-30	470-80	471-75	472-00	465-20	463-40	463-45	462-40	461-70	.....
25.	463-40	464-72	464-25	471-30	471-85	472-30	464-90	463-30	463-20	462-60	463-60	.....
26.	463-85	464-71	463-65	471-70	472-00	472-50	464-80	463-60	463-40	462-60	463-80	.....
27.	463-90	464-70	463-00	471-30	472-15	472-60	464-95	462-90	463-20	462-40	463-80	.....
28.	463-90	464-30	463-40	471-10	472-45	472-30	464-80	463-20	463-10	462-40	464-50	.....
29.	463-90	464-70	463-70	470-70	472-55	472-25	464-40	463-35	463-10	462-20	464-60	.....
30.	463-90	.....	463-30	470-00	472-45	472-15	464-60	463-30	463-30	462-00	464-60	.....
31.	463-30	.....	462-85	.....	472-35	.....	464-00	463-20	.....	462-80	.....	.....



WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1					464.00	462.40	461.90	461.60	460.90	458.90	459.80	
2					463.80	462.30	461.30	461.70	460.90	459.70	460.10	
3					463.80	461.50	461.20	461.60	458.90	459.70	459.90	
4					464.20	461.80	460.70	461.60	459.50	459.75	459.70	
5					464.00	462.10	461.70	460.80	460.60	459.65	459.80	
6					463.90	462.10	461.90	460.95	460.70	459.70	459.00	
7					463.90	462.10	462.00	461.50	460.70	459.50	459.50	
8					463.90	462.10	461.70	461.70	460.80	459.40	459.45	
9					463.80	462.10	461.85	461.40	460.40	459.90	459.70	
10					463.75	461.50	462.00	461.50	460.60	459.90	459.80	
11					463.60	461.20	462.10	461.70	460.20	459.90	459.60	
12					463.50	461.20	462.10	461.00	460.30	459.90	459.60	
13					463.20	461.10	462.00	461.20	460.30	459.90	459.70	
14					463.20	460.30	462.00	461.25	460.25	459.00	459.60	
15					463.30	460.10	461.80	461.35	460.30	459.35	459.55	
16					463.20	460.10	461.80	461.10	460.30	459.75	459.50	
17					463.20	460.10	461.80	460.80	460.45	459.10	459.55	
18					463.10	459.80	461.80	460.85	460.30	459.05	458.90	
19					463.10	459.60	461.80	461.00	460.35	458.70	458.95	
20					462.60	460.80	461.80	461.10	460.35	458.60	460.10	
21					462.70	461.80	461.70	461.05	460.20	457.80	460.50	
22					462.90	462.00	461.30	461.10	460.00	459.40	460.40	
23					462.90	462.10	461.30	461.20	459.40	459.60	460.30	
24					462.80	461.90	461.70	461.25	459.60	460.00	460.35	
25					462.75	461.80	461.70	461.20	459.80	460.20	460.60	
26					462.60	462.00	461.70	460.30	459.80	460.30	460.70	
27					461.40	461.10	461.65	461.00	459.80	460.30	460.70	
28					462.20	462.00	461.60	461.10	459.80	460.20	460.80	
29					462.40	461.90	461.30	461.05	459.80	460.20	460.70	
30					462.50	461.90	461.50	461.05	459.00	460.15	460.80	
31					462.50		461.60	461.05		460.15		
1918												
1				459.90	462.50	461.90	458.50	460.40	460.30	459.80		
2				460.00	463.00	461.00	458.30	460.25	460.80	459.80		
3				459.90	462.80	461.90	458.40	460.20	460.40	459.90		
4				459.90	462.50	461.80	458.50	459.90	460.40	460.10		
5				459.70	461.90	461.80	458.60	459.70	460.60	459.80		
6				459.55	461.70	461.80	459.90	460.20	460.75	459.75		
7				459.30	461.70	461.80	458.90	460.40	460.60	459.90		
8				459.10	462.20	461.80	459.00	460.40	459.65	459.90		
9				459.00	462.50	460.50	459.40	460.35	459.80	460.20		
10				459.10	462.40	460.90	459.40	461.00	460.30	460.20		
11				459.10	462.10	461.10	459.50	460.50	460.40	460.80		
12				459.15	461.60	460.70	459.70	460.10	460.50	460.90	460.20	
13				459.15	461.30	460.20	459.60	460.70	460.90	460.60	460.15	
14				459.15	460.90	459.90	458.90	461.15	460.80	460.40	460.20	
15				459.20	460.90	460.10	458.80	461.15	460.50	460.20	460.30	
16				459.20	460.70	459.00	459.00	461.10	460.50	460.50	460.30	
17				459.25	460.60	459.20	459.10	460.95	460.45	460.60	459.80	
18				459.25	460.40	459.60	459.40	460.95	460.10	460.70	459.90	
19				459.35	460.10	459.80	459.60	459.80	460.10	460.70	460.10	
20				459.70	460.10	459.80	459.80	461.00	460.20	460.10	460.20	
21				459.10	460.20	459.90	459.80	460.60	460.15	459.70	460.25	
22				459.50	460.50	459.65	460.20	459.90	460.05	460.40	460.00	
23				459.40	460.40	459.10	460.20	460.80	460.15	460.90	459.80	
24				459.30	460.60	459.30	460.20	460.70	460.10	461.00	459.90	
25			460.60	459.10	461.00	459.40	460.10	459.80	460.10	461.10	460.00	
26			460.70	459.10	461.30	459.30	460.30	459.80	460.00	460.50	460.50	
27			460.90	459.30	461.60	459.40	460.50	460.30	460.10	459.90	461.00	
28			460.50	458.80	461.90	459.60	460.50	460.60	460.90	459.40	460.10	
29			460.45	459.60	461.70	459.70	459.60	460.70	460.00	459.60	460.15	
30			460.40	461.00	461.70	459.30	461.70	460.45	460.90	459.70	461.30	
31			459.90		461.75		460.30	460.95		459.90		

WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO—Continued

RECORDS OF DEPARTMENTS OF PUBLIC WORK, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1				460-10	461-90	461-00	461-50	461-90	459-50	462-00	461-60	
2				460-15	461-80	460-60	463-90	462-20	459-80	462-10	461-50	
3				460-15	461-90	460-55	468-00	461-00	461-20	462-30	461-00	
4				459-90	461-40	460-00	468-80	461-50	462-00	462-20	461-30	
5				460-20	461-70	461-90	467-00	462-10	461-80	461-50	461-50	
6				460-50	461-90	462-90	467-60	462-10	461-60	461-40	461-80	
7				461-20	462-30	463-40		462-30	461-20	462-80	461-80	
8				461-45	462-80	462-80		462-20	461-45	462-00	461-80	
9				461-95	463-30	461-90	464-90	462-20	461-70	462-00	460-90	
10				462-45	463-50	462-30	464-30	461-00	461-80	461-90	461-29	
11				461-05	462-80	462-65	464-70	461-60	461-70	461-60	461-20	
12				462-00	461-05	462-55	465-00	462-20	461-60	461-10	462-30	
13				462-30	459-80	462-50	464-70	462-70	461-50	461-10	464-20	
14				462-70	459-40	462-50	463-70	463-00	461-10	461-60	465-10	
15				462-75	459-20	461-80	463-30	463-40	461-40	461-80	464-30	
16				462-80	459-20	461-80	463-10	463-70	461-30	461-70	464-00	
17				462-60	459-20	462-00	462-70	463-40	461-50	461-80	463-90	
18				462-40	459-10	462-40	462-60	463-50	461-60	461-80	464-20	
19				462-10	459-00	462-30	462-50	463-50	461-90	461-20	463-80	
20				461-85	458-90	462-35	462-70	463-60	461-80	461-20	463-60	
21				462-10	458-70	462-30	463-20	463-70	461-30	461-50	463-60	
22				462-30	458-60	461-80	463-20	463-40	461-50	461-80	463-70	
23				462-40	460-20	462-00	463-00	463-20	461-90	461-90	463-00	
24				462-30	461-10	462-80	462-70	462-50	462-00	461-80	462-90	
25				462-30	461-00	463-80	462-50	462-50	462-10	461-80	463-00	
26				462-30	461-10	464-00	462-20	462-70	462-00	460-40	463-20	
27				461-50	461-30	463-80	461-80	462-70	461-90	460-70	463-20	
28				462-10	461-55	463-50	461-30	462-60	460-95	461-50	463-20	
29				461-90	461-50	462-70	461-90	462-60	461-40	461-40	463-20	
30				461-90	461-50	462-30	462-10	462-60	462-00	461-50	463-20	
31					461-50		462-20	461-90		461-80		
1920												
1				464-40	464-30	463-80	467-90	464-30	461-90	460-40		
2				464-40	464-30	465-50	467-90	463-70	461-90	460-45		
3				465-00	462-80	466-50	467-50	463-20	462-00	459-90		
4				465-30	463-00	466-70	467-30	463-00	461-90	460-30		
5				464-80	463-50	466-60	467-30	462-60	460-40	460-30		
6				464-60	463-30	465-30	467-20	462-10	460-60	460-30		
7				464-20	463-20	465-40	466-40	461-90	461-00	460-30		
8				463-80	463-10	465-30	465-40	461-40	461-50	460-30		
9				463-40	462-00	465-30	464-70	461-30	461-60	460-40		
10				463-20	462-50	465-50	464-20	461-80	461-30	459-80		
11				462-80	462-70	465-50	464-00	462-00	461-20	459-70		
12				461-60	462-70	465-50	464-00	462-40	460-40	460-30		
13				462-40	462-70	465-10	464-10	462-70	460-40	460-50		
14				462-50	462-60	464-50	464-10	462-60	460-70	460-50		
15				462-70	462-50	464-70	464-80	461-90	460-80	460-40		
16				462-70	461-50	464-70	465-40	461-50	460-80	460-40		
17				463-00	461-90	463-90	465-50	462-00	460-90	459-60		
18				463-10	462-20	463-80	464-50	462-00	460-90	459-20		
19				463-50	462-50	463-70	464-40	462-00	460-60	460-00		
20				464-00	462-30	463-00	464-10	461-90	460-30	460-00		
21				464-40	462-40	463-20	463-40	461-60	460-80	460-00		
22				464-80	462-50	463-60	463-40	461-00	460-80	459-80		
23				465-20	462-30	463-80	463-30	461-40	460-80	459-80		
24				465-30	462-80	464-50	463-30	461-80	460-80	459-20		
25				464-70	463-60	465-00	463-50	461-80	460-60	459-40		
26				465-20	463-50	464-60	462-60	461-70	458-80	459-90		
27				465-30	463-40	466-00	463-70	461-70	458-80	459-60		
28				465-10	463-30	467-10	465-20	461-60	459-30	461-00		
29				464-80	462-60	467-60	465-30	461-20	460-40	461-00		
30				464-70		467-60	465-30	460-80	460-90	460-90		
31							465-30	461-70		459-80		

## WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1				462.70	462.30	461.60	460.50	460.80	459.40	459.70		
2				462.20	461.70	462.80	460.00	460.90	459.35	459.70		
3				461.80	461.80	463.40	459.80	461.00	459.20	459.70		
4				461.50	461.80	463.60	459.00	460.90	459.10	459.90		
5				462.40	461.50	463.40	459.50	461.00	460.10	460.10		
6				463.40	461.50	463.10	459.80	460.80	459.20	460.10		
7				465.60	461.40	462.80	459.80	460.00	459.30	459.90		
8				467.70	461.20	462.80	461.50	459.90	459.50	459.60		
9				469.30	461.20	463.00	461.80	460.00	460.30	459.20		
10				468.30	461.00	462.80	460.50	460.30	460.80	459.40		
11				466.55	461.00	462.80	460.80	460.00	460.10	459.40		
12				465.70	461.10	462.90	461.30	460.50	460.00	459.50		
13				465.10	461.40	462.00	461.50	460.50	460.70	459.50		
14				465.00	461.40	461.60	461.90	459.40	461.20	459.60		
15				464.30	461.50	461.60	461.70	459.40	461.50	459.50		
16				464.00	461.00	461.60	461.85	459.60	461.80	459.20		
17				463.90	462.20	461.50	460.80	459.70	461.80	459.50		
18				463.30	462.00	461.30	460.75	459.60	461.70	459.50		
19				463.40	461.80	461.00	461.80	459.50	461.00	459.60		
20				463.10	462.10	460.80	461.90	459.50	461.10	459.60		
21				463.00	462.00	460.60	461.90	459.10	461.40	459.70		
22				462.90	462.00	460.50	461.80	458.90	461.40	460.10		
23				462.80	461.90	460.40	461.60	459.20	461.40	459.80		
24				462.60	462.00	460.20	459.90	459.50	460.80	459.80		
25				462.60	461.60	460.30	460.10	459.40	459.90	460.00		
26				463.20	461.30	460.20	460.70	459.50	459.90	460.50		
27				463.60	461.10	460.10	461.30	459.50	459.50	460.00		
28				463.70	460.80	460.00	461.60	459.40	460.40	460.30		
29				463.50	460.65	460.00	461.90	459.80	460.50	460.30		
30				463.60	460.60	460.00	462.00	459.95	460.20	459.60		
31					461.60		461.40	459.50		459.70		
1922												
1					463.90	462.20	461.10	460.50	460.70	459.40		
2					464.10	462.10	460.00	460.50	460.80	460.00		
3					464.10	462.40	460.50	460.40	459.80	460.30		
4					464.00	461.50	460.00	460.40	459.00	460.30		
5					464.00	462.20	460.10	460.40	458.20	460.30		
6					464.00	462.00	461.10	459.50	460.30	460.30		
7					463.50	462.10	461.30	459.90	460.90	460.30		
8					463.20	462.00	461.10	460.40	460.80	459.20		
9					463.40	462.00	460.50	460.40	460.80	459.80		
10					463.90	462.30	460.40	460.50	459.80	460.10		
11					464.50	461.50	461.00	460.50	460.10	460.30		
12				464.30	464.80	462.50	461.20	460.70	460.40	460.10		
13				464.80	465.20	462.80	461.30	459.50	460.30	459.90		
14				465.50	464.80	462.70	461.40	460.10	460.20	459.80		
15				465.40	463.20	462.70	461.30	460.40	460.20	459.40		
16				464.80	462.10	462.90	460.20	460.40	460.20	460.40		
17				466.80	463.80	462.00	460.40	460.40	459.90	460.30		
18				467.80	464.00	461.70	461.20	460.50	459.70	460.30		
19				468.20	464.10	462.10	461.20	460.60	460.00	460.20		
20				467.90	464.05	462.10	461.20	459.70	460.30	460.20		
21				467.00	463.70	461.90	461.00	459.90	460.30	460.20		
22				466.80	463.20	461.90	461.10	460.40	460.30	459.20		
23				465.80	463.30	461.90	459.70	460.50	460.40	459.60		
24				465.30	463.20	461.90	460.60	460.50	459.30	460.10		
25				465.50	463.10	461.00	461.00	460.70	459.60	460.30		
26				465.60	463.00	461.10	461.00	461.00	460.30	460.20		
27				465.50	462.70	461.40	461.00	459.80	460.30	460.10		
28				465.80	461.70	461.90	460.70	460.00	460.30	460.00		
29				465.00	462.20	462.00	460.70	460.50	460.30	459.30		
30				463.80	462.30	462.00	459.90	460.80	460.30	459.50		
31					462.30		459.90	460.90		460.00		

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1					464-20	460-50	462-10	459-90	459-20	458-00		
2					463-00	460-40	461-90	459-80	459-00	458-80		
3					463-10	460-20	460-80	459-80	457-30	459-10		
4					463-80	460-20	460-00	459-80	458-00	459-10		
5					463-70	460-30	459-50	459-40	458-80	459-10		
6						464-60	460-10	460-60	459-60	459-00	459-20	
7						464-30	460-10	460-60	459-80	459-30	458-90	
8						463-70	460-10	459-50	459-80	459-30	458-90	
9						463-30	460-10	460-20	459-70	459-00	459-10	
10						462-90	459-20	460-50	459-70	459-10	459-10	
11							462-60	459-80	460-60	459-80	459-10	
12							462-30	459-80	460-60	459-50	459-20	459-20
13							462-00	459-90	460-30	459-50	459-20	459-10
14							462-20	459-90	460-30	459-70	459-20	458-30
15							462-00	459-80	460-10	459-70	459-20	458-90
16							461-90	459-60	459-90	459-50	458-00	459-00
17							461-70	459-30	460-20	459-40	459-00	458-00
18							461-40	459-60	460-20	459-40	459-20	457-20
19					461-70		461-10	460-20	460-20	459-20	459-20	458-20
20				462-90	461-10	460-00	460-50	459-10	459-10	459-10	458-30	
21					465-90	461-30	460-00	460-30	459-30	459-20	457-80	
22					466-80	461-50	460-00	460-10	459-30	459-20	458-00	
23					467-00	461-50	463-60	460-00	459-40		458-00	
24					466-20	461-10	463-80	460-10	459-30		458-00	
25					466-20	460-80	463-60	460-00	459-30		458-10	
26					466-80	460-50	463-50	460-10	459-10		458-10	
27					465-60	460-50	463-50	460-00	459-00		458-10	
28					465-80	460-50	462-80	459-90	459-25		458-10	
29					465-80	460-60	462-10	459-70	459-30		458-10	
30					465-40	460-60	462-00	459-60	459-30	458-70	458-20	
31						460-50		459-60	459-20		458-20	
1924												
1							458-85	458-35	459-15	459-90	460-45	
2							458-75	458-40	459-20	460-35	460-35	
3							459-70	458-80	458-40	459-05	460-45	460-10
4							459-50	458-85	485-95	459-30	460-55	459-95
5							459-20	458-85	458-60	459-20	460-45	459-90
6							459-60	458-85	458-30	458-70	460-15	460-15
7							459-60	458-80	458-40	458-70	460-10	460-15
8							459-60	458-60	458-80	459-00	459-70	459-95
9							459-60	458-60	459-00	459-50	459-75	459-80
10							459-45	458-80	459-00	459-45	459-70	459-85
11							459-10	459-00	458-95	459-45	459-45	459-70
12							459-00	459-10	458-95	459-75	459-50	459-80
13							459-20	459-05	458-85	459-80	459-50	462-70
14							459-25	459-10	458-80	459-80	459-45	463-10
15							459-20	458-90	458-90	459-75	459-55	462-90
16							459-30	459-00	458-95	459-50	459-55	461-70
17							459-10	458-90	459-45	459-60	461-40	
18							459-40	459-00	458-85	459-25	459-55	461-20
19							459-35	459-30	459-70	459-30	459-45	461-10
20							459-50	459-70	458-60	459-30	459-40	461-00
21							459-45	460-60	458-60	459-35	459-50	460-70
22							459-45	460-60	458-90	459-40	459-65	460-40
23							459-40	460-50	458-90	459-55	459-65	460-10
24							459-35	460-60	458-90	459-45	460-00	460-05
25							459-10	460-50	458-95	459-50	460-40	460-20
26							459-00	460-30	458-85	459-50	460-35	459-85
27							459-05	460-15	458-95	459-40	460-30	458-80
28							459-05	460-00	459-10	459-35	460-25	459-86
29							459-05	459-65	459-15	459-45	460-50	459-85
30							458-85	459-55	459-05	460-25	460-50	459-70
31							458-85		459-10	460-45		459-50

## WATER LEVELS—RAINY RIVER—BIG FORK, ONTARIO—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1					464.50	460.05	461.70	459.80	458.90	461.90		
2					464.10	460.40	461.70	459.00	459.15	463.30		
3				460.90	464.00	461.00	462.00	459.60	459.25	464.00		
4				460.80	463.50	461.30	460.75	460.05	459.50	463.50		
5				460.90	463.10	461.60	460.40	460.15	459.60	463.80		
6				460.70	462.60	462.60	460.55	460.35	459.75	463.00		
7				460.40	462.20	462.20	461.60	460.35	459.40	462.75		
8				460.10	461.90	463.10	461.70	460.40		462.50		
9				459.90	461.65	464.20	461.60	459.90		462.30		
10				459.85	461.30	464.30	461.40	459.30	460.90	462.10		
11				459.80	461.00	464.20	461.20	459.85	461.25	461.60		
12				459.45	461.00	464.00	460.55	460.00	461.40	461.40		
13				459.40	460.90	463.60	460.40	460.10	461.15	461.60		
14				459.85	460.75	462.75	461.00	460.10	461.10	461.60		
15				459.85	460.75	462.55	461.05	460.10	461.10	461.60		
16				459.70	460.60	462.65	461.00	459.45	461.10	461.60		
17				459.45	460.00	462.50	460.85	459.00	461.10	461.60		
18				459.30	460.30	462.30	460.75	459.90	461.00	461.10		
19				459.15	460.60	462.30	460.25	459.95	460.90	460.90		
20				459.20	460.70	462.20	459.80	460.00	460.60	461.30		
21				459.40	460.50	461.40	460.70	460.00	460.70	461.20		
22				459.85	460.30	461.20	460.90	460.05	461.30	461.10		
23				460.80	460.20	461.50	460.90	459.40	461.50	461.10		
24				462.00	459.90	461.50	460.90	459.15	461.50	461.00		
25				462.80	459.95	461.65	460.65	459.95	461.30	460.60		
26				462.80	460.40	461.80	459.85	460.05	461.20	460.40		
27				462.80	460.35	462.00	459.50	460.05	460.60	460.80		
28				462.50	460.40	461.70	459.75	460.00	460.30	460.60		
29				463.20	460.40	461.80	459.75	460.20	460.60	460.40		
30				464.05	460.40	462.15	459.75	459.60	460.90	460.20		
31					459.90		459.80	458.75		460.00		
1926												
1				461.20	461.00	461.50	461.10	460.00	461.70	462.90		
2				460.80		461.55	460.70	461.20	461.70	462.90		
3				460.60		461.55	460.70	461.20		462.40		
4				459.80		461.55	460.50	461.10		462.70		
5				460.00		461.55	459.90	461.00	461.30	464.40		
6				460.25		460.70	460.30	460.90	460.50	466.00		
7				460.25		460.70	460.50	461.00	462.50	465.90		
8				460.30		460.70	460.90	460.30	462.50	465.60		
9				460.30	460.15	460.80	461.30	460.50	462.60	465.20		
10				460.35	460.30	460.60	462.00	461.20	462.60	464.40		
11				459.80	460.85	460.80	462.40	461.20	462.50	463.80		
12				460.20	460.90	460.80	462.90	461.10	461.80	464.00		
13				461.00	460.80	460.35	463.30	461.10	461.30	463.50		
14				461.60	460.70	460.30	462.90	461.10	461.80	463.50		
15				461.90	460.60	460.50	462.70	460.40	461.90	463.60		
16				462.00		460.55	462.70	460.30	462.00	463.40		
17				462.00	460.25	460.65	462.50	461.20	462.10	463.00		
18				461.85	460.30	460.80	461.70	461.30	461.90	462.90		
19				462.05	460.05	460.90	461.70	461.30	461.30	463.40		
20				462.60	459.90	461.00	462.30	461.30	461.10	463.80		
21				462.50	459.90	463.70	462.30	461.40	461.70	464.40		
22				461.90	460.00	465.30	462.10	461.20	461.90	464.70		
23				461.80	459.50	465.70	462.10	462.00	462.60	465.00		
24				461.80	459.70	465.50	462.00	462.00	463.80	465.30		
25				461.20	460.30	465.20	461.00	461.90	464.40	465.50		
26				461.30	462.00	464.50	461.40	462.00	463.80	465.80		
27				461.50	462.70	463.50	461.40	461.90	463.60	465.50		
28				461.35	462.60	462.90	461.40	461.90	463.85	465.00		
29				461.20	462.30	462.40	461.40	460.50	463.40	464.90		
30				461.15	461.70	461.90	461.30	460.60	463.10	465.10		
31					461.60		461.30	461.40		464.90		

WATER LEVELS—RAINY RIVER—EMO, ONTARIO

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14									456.32			
15									456.28			
16									456.16			
17												
18									455.91			
19									456.03			
20									456.36			
21									456.32			
22									456.32			
23									456.32			
24												
25									455.24			
26									455.08			
27									455.08			
28									455.41			
29									455.51			
30									455.24			
31												
1912												
1					457.53	456.98		458.03		458.20		
2					457.58			457.98	455.95	458.13		
3					457.88			458.08	455.87	457.85		
4					458.00	456.53			456.53	457.70		
5						456.58		457.53	457.53			
6					457.63	456.48		457.58	457.94			
7					458.53	456.48		457.68	458.28			
8					459.03	456.58	459.48	457.58				
9					459.28		459.23	457.58	458.53			
10						456.13	458.78	457.58	457.28			
11					458.93	456.28	458.88		457.53			
12						456.33	459.13	457.20	457.37			
13					457.78	456.23	459.33	457.20	457.45			
14					458.28	456.03		457.28	457.37			
15					458.43	456.03	459.33	457.20				
16					458.53		459.03	456.95	456.70			
17					458.63		458.93	456.20	456.62			
18					458.53		458.88		456.62			
19					457.08		458.58	456.62	456.45			
20					457.33		458.63	456.87	456.29			
21					457.68			456.95	456.20			
22					457.78		458.03	456.28	456.28			
23					457.98		457.88	456.11	456.20			
24					457.08	455.83	457.78	455.95	456.73			
25					457.53	455.93	457.68		457.53			
26						455.88	457.68		458.28			
27					456.58	455.88	457.58		458.78			
28					457.13	455.78			458.33			
29					457.18	455.78	457.88					
30					457.08		458.03		457.85			
31					456.98		458.03					

## WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1				458-27	459-28	458-33	458-68	458-79	455-37	455-44	456-63	456-28
2				458-59	459-09	458-21	459-07	458-13	455-37	456-05	456-57	456-73
3				458-47	458-87	458-58	459-05	458-05	455-93	455-99	456-37	457-08
4				458-45	458-88	458-67	459-28	458-73	456-20	455-89	456-66	457-17
5				458-59	458-96	458-35	458-87	457-58	456-37	455-98	456-68	457-00
6				458-98	459-39	458-59	458-76	457-37	456-39	456-35	456-67	456-88
7				458-38	459-67	458-93	459-46	457-43	457-26	456-91	456-66	455-73
8				458-06	459-77	459-27	459-47	457-62	456-35	457-68	456-65	457-19
9				458-96	458-42	459-35	459-36	457-85	456-44	457-95	456-47	457-75
10				458-17	459-01	459-32	459-47	457-70	456-46	458-16	455-86	458-86
11				457-86	458-67	459-15	459-65	457-26	456-47	458-51	455-84	458-98
12				457-47	458-12	458-74	459-76	457-47	456-57	458-78	455-99	458-82
13				457-46	458-18	458-32	460-43	457-58	456-75	458-66	456-23	458-94
14				457-12	458-35	458-14	460-68	457-59	456-73	458-64	456-33	458-39
15				458-39	458-00	457-95	461-15	457-37	456-68	458-67	456-27	457-90
16				459-77	458-21	457-57	461-16	457-56	456-66	458-53	456-25	457-58
17				459-96	458-34	457-60	461-77	457-61	456-61	458-22	455-87	.....
18				460-07	459-27	457-55	461-99	457-25	456-58	457-98	456-05	.....
19				460-12	459-39	457-57	461-75	457-39	456-53	457-79	456-15	.....
20				459-98	459-58	457-99	461-60	457-48	456-49	457-28	456-15	.....
21				459-42	459-26	457-67	461-09	457-61	456-45	457-31	456-06	.....
22				459-38	459-05	457-93	460-77	457-73	456-28	457-35	456-08	.....
23				459-16	458-97	457-64	460-53	457-74	456-29	457-25	456-37	.....
24				459-12	459-08	457-78	460-29	457-74	456-23	457-17	456-17	.....
25				459-25	459-00	457-77	460-15	457-25	456-19	457-18	457-57	.....
26				459-62	458-38	457-79	459-94	456-77	456-08	457-19	457-77	.....
27				459-44	458-49	457-70	459-77	456-50	456-09	456-97	457-34	.....
28				460-28	458-37	457-55	459-32	456-27	456-08	456-94	456-79	.....
29				459-89	457-95	457-55	459-41	456-25	455-96	456-90	456-78	.....
30				459-58	457-94	457-97	459-47	456-18	456-05	456-76	456-65	.....
31				.....	458-07	.....	458-98	456-15	.....	456-71	.....	.....
1914												
1				455-91	459-38	458-58	458-74	458-60	458-10	.....	.....	457-70
2				456-13	459-80	458-76	458-46	458-00	458-30	.....	.....	458-60
3				456-08	460-35	458-54	458-58	457-90	458-20	.....	.....	458-50
4				456-01	460-55	458-38	458-62	458-00	458-40	.....	.....	458-90
5				456-06	460-98	458-19	457-74	458-10	458-20	.....	.....	458-70
6				455-49	461-14	458-07	457-94	458-10	456-90	.....	.....	457-80
7				455-78	461-00	457-58	458-42	458-10	457-00	.....	.....	457-40
8				455-91	460-85	457-19	458-69	458-10	456-30	.....	.....	457-70
9				455-98	460-51	457-05	458-66	458-00	457-50	.....	.....	458-30
10				456-01	460-10	459-57	458-60	457-90	457-90	.....	.....	460-10
11				456-08	459-56	460-69	458-58	458-00	457-80	.....	.....	460-50
12				456-07	459-50	461-00	458-52	458-10	458-10	.....	.....	460-60
13				455-53	459-31	460-65	459-74	458-00	457-50	.....	.....	460-00
14				455-84	459-10	460-19	461-00	458-10	457-60	.....	.....	459-00
15				456-15	458-87	459-07	461-90	458-00	458-10	.....	458-20	459-60
16				456-44	458-66	459-35	461-64	457-50	458-50	.....	458-70	459-80
17				456-68	458-43	458-59	461-13	457-30	459-00	.....	458-90	459-80
18				457-48	457-98	458-36	460-70	456-90	458-80	.....	459-40	459-80
19				458-33	458-09	457-97	459-90	457-60	459-00	.....	459-50	459-80
20				458-21	458-92	457-98	459-70	457-70	459-10	.....	459-70	459-70
21				458-38	460-49	456-87	459-50	457-60	458-90	.....	460-00	458-80
22				458-33	460-90	456-99	459-30	457-70	458-70	.....	459-80	459-00
23				458-30	460-69	457-53	459-40	457-50	458-60	.....	459-50	459-70
24				458-23	460-26	456-51	459-60	457-20	458-70	.....	459-60	459-20
25				458-15	459-57	456-48	459-30	457-70	458-90	.....	459-80	458-80
26				458-37	459-65	457-48	459-10	457-90	458-90	.....	459-70	457-90
27				458-37	458-09	459-37	457-53	458-90	458-40	458-70	459-10	457-90
28				458-37	458-14	459-26	457-47	459-20	458-10	458-40	458-80	458-10
29				458-14	458-28	459-33	457-33	459-00	458-30	458-10	457-70	459-60
30				457-02	458-79	459-35	457-67	458-70	457-50	458-50	457-20	459-70
31				456-32	458-79	.....	458-50	457-80	.....	.....	.....	459-80

WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Continued  
 RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA  
 [Elevations refer to D. P. W. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1.	459-80	458-80	458-80	456-90	458-20	457-20	463-65	458-45	457-20	457-20	456-05	459-20
2.	459-80	459-30	459-10	456-80	458-05	457-35	463-10	457-65	457-15	457-25	456-85	459-30
3.	459-80	459-30	459-30	456-70	457-75	457-35	462-25	458-00	456-90	457-00	456-95	459-60
4.	459-00	459-30	459-40	456-90	457-90	457-30	461-55	458-05	457-25	456-25	457-15	459-70
5.	459-70	459-20	459-40	456-40	457-95	457-30	461-20	458-10	456-60	456-90	457-10	459-55
6.	459-70	459-20	459-30	457-00	458-05	457-65	461-35	458-10	455-90	457-10	457-00	458-30
7.	459-70	459-30	459-10	457-20	458-35	457-80	461-10	457-95	454-95	457-25	456-85	459-05
8.	459-70	458-70	458-50	457-20	458-70	458-30	460-85	457-65	456-15	457-60	456-55	459-40
9.	459-70	459-00	459-00	457-60	459-05	458-25	460-50	457-80	456-90	457-65	457-05	459-35
10.	459-50	459-30	458-50	457-70	458-80	458-45	460-15	457-80	456-95	456-95	457-25	459-25
11.	459-00	459-40	458-30	457-40	459-65	458-75	459-65	457-80	456-95	456-50	457-45	459-20
12.	459-60	459-40	458-20	456-80	459-90	459-20	459-30	458-30	456-65	457-15	457-80	459-15
13.	459-70	459-50	458-20	457-50	460-00	460-70	459-35	458-30	456-10	457-55	457-75	458-95
14.	459-70	459-20	457-40	457-00	459-65	462-65	459-35	457-75	456-65	457-25	457-40	459-25
15.	459-70	458-60	456-50	458-10	459-35	463-65	459-20	457-70	456-90	457-20	.....	.....
16.	459-50	459-10	457-00	458-40	459-50	463-75	459-10	457-45	456-90	457-05	457-05	459-60
17.	459-60	459-40	456-90	458-50	460-05	464-00	459-05	457-45	456-90	456-30	.....	459-65
18.	459-20	459-50	456-60	458-10	461-25	464-05	458-80	457-45	457-10	456-90	457-15	459-55
19.	459-60	459-50	456-70	457-10	461-80	463-70	458-40	457-40	456-85	456-65	457-40	459-55
20.	459-70	459-00	456-90	457-60	461-60	.....	458-80	457-40	456-55	.....	457-45	459-35
21.	459-70	459-60	456-50	457-80	461-60	462-65	458-60	457-35	457-00	457-00	456-85	459-55
22.	459-60	459-20	456-00	457-90	460-50	461-60	458-50	457-15	457-00	457-05	459-65	459-65
23.	459-60	459-60	456-60	458-30	461-10	461-10	458-30	457-20	457-05	456-80	458-30	459-65
24.	459-50	459-60	456-70	457-70	459-65	460-80	458-15	457-25	457-20	456-65	459-20	459-55
25.	459-10	459-70	456-90	457-60	459-30	460-75	458-45	457-30	457-25	456-20	459-25	459-45
26.	459-30	459-60	457-40	457-10	459-25	460-65	458-50	457-30	456-95	456-95	459-15	459-10
27.	459-40	459-60	457-20	458-20	458-80	461-55	.....	457-30	456-60	457-00	459-10	458-95
28.	459-40	459-40	457-10	458-40	458-80	462-80	458-50	457-30	457-00	457-10	457-95	459-70
29.	459-40	.....	456-70	458-50	458-10	463-40	458-55	457-20	457-05	457-15	457-60	459-80
30.	459-40	.....	457-20	458-50	457-95	464-25	458-60	456-90	457-15	457-10	458-45	459-80
31.	459-30	.....	457-00	.....	457-35	.....	458-50	457-15	.....	456-65	.....	459-85

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1.	459-70	460-05	460-50	.....	464-90	468-25	467-50	.....	458-85	458-70	458-70	460-60
2.	459-65	460-05	460-50	.....	466-00	468-70	467-70	.....	458-70	458-55	458-85	460-55
3.	459-40	.....	460-45	.....	466-85	468-70	467-65	.....	458-50	458-70	458-95	460-25
4.	459-70	460-15	460-45	.....	465-50	468-70	467-45	.....	457-90	458-70	458-90	459-40
5.	459-75	460-20	460-45	.....	465-50	468-60	467-05	.....	457-80	458-40	458-80	459-85
6.	459-75	460-05	460-15	.....	465-45	468-55	466-50	.....	458-75	458-70	458-25	459-80
7.	459-80	459-75	460-40	.....	465-65	468-40	466-00	.....	459-00	458-90	458-80	459-85
8.	459-75	460-10	460-50	.....	465-50	468-35	465-65	.....	459-30	458-25	459-00	459-95
9.	459-80	460-25	460-50	457-00	465-65	468-20	465-50	.....	459-30	457-70	459-00	460-00
10.	459-65	460-35	460-50	456-70	465-45	468-20	465-35	459-20	459-15	458-00	458-95	460-00
11.	459-70	460-35	460-55	458-40	465-45	468-15	465-00	459-15	458-70	458-05	458-85	459-70
12.	459-75	460-30	460-45	458-80	465-30	468-10	464-60	459-15	458-75	458-20	458-25	460-05
13.	459-70	460-25	460-10	459-35	464-95	468-05	464-40	459-35	458-70	458-10	457-20	459-95
14.	459-70	460-00	460-45	460-65	465-30	468-00	464-40	459-50	458-65	458-10	458-10	460-00
15.	459-60	460-25	460-50	461-80	465-25	468-00	464-35	459-75	458-95	458-00	458-40	460-00
16.	459-60	460-50	460-50	463-10	465-70	468-00	464-05	459-75	459-20	457-75	458-55	460-00
17.	459-50	460-60	460-50	463-90	466-55	467-95	463-65	459-80	459-20	458-20	458-65	459-80
18.	459-80	460-65	460-45	465-80	467-10	467-85	463-15	459-75	458-90	458-15	458-50	459-75
19.	459-85	460-65	460-50	467-50	467-35	467-70	462-70	459-70	459-40	458-05	458-30	459-95
20.	459-70	460-40	460-20	467-40	467-55	467-55	462-35	459-65	458-30	458-25	457-15	459-90
21.	459-60	460-15	460-45	467-50	467-20	467-35	462-10	459-60	457-80	458-35	458-00	459-90
22.	459-60	460-45	460-55	467-10	468-35	467-25	461-90	459-70	458-00	458-50	457-75	459-90
23.	459-60	460-50	460-60	467-10	467-60	467-20	461-20	459-80	459-10	457-45	457-10	.....
24.	459-50	460-50	460-60	466-85	467-70	467-40	461-00	459-30	458-95	458-35	457-25	459-80
25.	459-65	460-55	460-55	467-55	467-85	467-80	460-85	459-40	458-65	458-35	459-30	459-65
26.	459-90	460-50	460-55	467-80	467-95	468-05	.....	459-45	459-00	458-50	460-00	459-70
27.	459-95	460-40	460-35	467-30	468-15	468-00	.....	459-15	458-90	458-45	459-90	460-30
28.	459-95	460-15	460-65	466-85	468-20	467-85	.....	458-90	458-85	458-50	460-35	460-60
29.	460-00	460-45	460-70	466-75	468-25	467-60	.....	459-00	458-75	458-40	460-60	460-35
30.	460-00	.....	460-40	466-10	468-25	467-55	.....	459-00	458-85	457-90	460-60	460-35
31.	459-70	.....	460-40	.....	468-02	.....	.....	458-95	.....	458-70	.....	460-35



WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1	460-05	460-35	460-50	458-55	460-50	458-70	458-15	458-00	457-30	455-00	456-40	458-00
2	460-40	460-35	460-40	457-85	460-50	458-60	457-70	458-00	457-10	456-10	456-40	458-40
3	460-40	460-35	460-40	458-40	460-50	458-00	457-25	458-00	456-30	456-10	456-30	458-50
4	460-40	460-20	460-35	458-35	460-40	457-80	455-60	457-90	456-10	456-10	456-20	458-50
5	460-40	460-00	460-20	458-40	460-30	458-40	457-30	457-10	456-70	456-05	455-90	458-55
6	460-40	460-40	460-45	458-40	460-00	458-40	457-10	457-70	457-10	456-10	455-55	.....
7	460-30	460-35	460-50	458-45	459-90	458-40	458-35	457-95	457-10	456-00	455-80	.....
8	460-15	460-30	460-45	458-25	460-00	458-40	458-10	458-00	457-10	456-10	456-00	458-45
9	460-30	460-35	460-45	457-80	460-00	458-35	458-10	457-90	457-10	456-10	456-00	458-45
10	460-35	460-35	460-45	458-50	459-90	458-00	458-30	457-90	457-10	456-15	456-00	458-25
11	460-35	460-20	460-30	459-00	459-90	457-65	458-35	458-00	457-10	456-20	456-05	458-25
12	460-35	460-10	460-30	459-30	459-75	458-10	458-40	457-65	457-10	456-30	455-90	458-35
13	460-35	460-40	460-50	459-90	.....	457-70	458-35	457-60	456-80	456-10	456-05	458-40
14	460-20	460-30	460-50	460-35	459-40	457-00	458-30	458-00	456-65	456-00	456-05	458-35
15	460-10	460-30	460-45	459-60	459-50	456-40	458-15	457-90	456-65	455-25	455-90	458-30
16	460-35	460-30	460-50	459-10	459-45	456-65	458-10	.....	456-70	.....	455-90	458-30
17	460-40	460-35	460-50	459-50	459-35	456-40	458-15	457-15	456-65	456-35	455-90	458-30
18	.....	460-05	460-35	459-55	459-35	456-70	458-10	457-15	456-70	456-40	455-80	458-30
19	.....	460-05	460-25	459-80	459-30	456-20	458-10	457-15	456-70	455-85	454-85	458-35
20	460-30	460-40	460-50	460-00	459-20	456-70	458-10	457-40	456-70	454-50	455-90	458-40
21	460-25	460-40	460-50	460-40	459-00	457-75	458-10	457-45	456-80	454-00	456-60	458-40
22	460-05	460-40	460-50	460-70	458-95	458-30	457-85	457-45	456-75	454-60	456-60	458-40
23	460-35	460-40	460-65	461-05	459-05	458-35	457-80	457-50	456-20	455-90	456-60	458-40
24	460-30	460-40	460-70	460-90	459-00	.....	457-90	457-50	455-95	456-15	456-60	458-35
25	460-30	460-30	460-50	460-75	459-00	458-10	458-05	457-50	456-20	456-55	456-85	458-35
26	460-30	460-05	460-25	460-50	458-85	458-30	458-00	457-35	456-10	456-60	456-80	458-35
27	460-30	460-35	460-30	460-30	458-45	458-30	458-00	457-20	456-10	456-60	457-25	458-40
28	460-20	460-40	460-25	460-30	458-20	458-30	457-90	457-45	456-20	456-65	457-70	458-40
29	459-95	.....	460-30	460-30	458-55	458-30	457-80	457-45	456-20	456-40	457-90	458-40
30	460-30	.....	460-10	460-30	458-75	458-30	457-60	457-50	455-90	456-60	457-75	458-40
31	460-35	.....	459-60	.....	458-75	.....	457-85	457-45	.....	456-60	.....	458-40
1918												
1	458-40	458-30	458-25	455-90	459-55	459-15	.....	457-55	457-80	457-05	457-05	.....
2	458-40	458-30	458-30	457-20	460-30	458-80	455-06	457-60	456-40	457-05	457-15	.....
3	458-45	458-30	458-25	457-25	460-35	458-95	455-75	.....	457-05	457-05	457-10	.....
4	458-45	458-10	458-20	457-25	460-05	458-95	.....	457-30	457-40	457-20	456-80	.....
5	458-40	458-30	458-30	457-10	.....	459-15	455-09	456-90	457-65	457-15	456-75	.....
6	458-40	458-40	458-30	456-90	459-00	458-95	456-75	457-25	457-80	456-05	456-70	.....
7	458-40	458-40	458-30	456-70	459-10	458-95	457-45	457-45	457-80	457-10	456-70	.....
8	458-40	458-35	458-35	456-35	459-50	458-90	456-15	457-55	457-05	457-20	455-95	.....
9	458-40	458-30	458-35	456-30	459-70	.....	456-65	457-60	456-85	457-25	457-20	459-30
10	458-45	458-30	458-35	456-40	459-80	458-15	456-75	457-85	457-40	457-50	.....	459-30
11	458-40	.....	458-35	456-40	459-60	458-30	.....	457-90	457-50	457-85	.....	459-65
12	458-40	458-25	458-35	456-40	459-10	.....	457-15	457-25	457-75	457-95	.....	459-65
13	458-40	458-35	458-35	456-40	458-75	457-83	457-00	457-80	458-00	457-90	.....	459-65
14	458-40	458-35	458-40	456-40	458-50	457-30	456-40	458-20	458-05	457-25	.....	459-65
15	458-40	458-25	458-40	456-45	458-25	457-30	455-85	458-20	.....	457-50	.....	459-60
16	458-45	458-10	458-40	456-45	458-10	457-10	456-15	458-20	457-55	457-60	.....	459-55
17	458-25	458-10	458-40	456-45	458-10	456-45	456-25	458-25	457-55	457-65	.....	459-65
18	458-25	458-10	458-40	456-50	457-90	457-00	456-60	.....	457-40	457-75	.....	459-65
19	458-25	458-10	458-45	456-60	457-80	457-05	.....	456-75	457-30	457-90	.....	459-65
20	.....	458-20	458-50	456-90	457-75	457-10	456-80	458-00	.....	457-45	.....	459-65
21	458-25	458-20	458-60	.....	457-70	457-15	457-30	458-00	457-35	456-80	.....	459-55
22	458-30	458-20	458-60	.....	457-80	457-00	457-35	457-20	457-30	457-35	.....	459-45
23	458-30	458-20	458-65	.....	457-90	456-70	457-40	457-20	457-25	457-80	.....	458-70
24	458-25	458-20	458-60	.....	458-00	456-45	457-40	458-00	457-35	458-00	.....	458-70
25	458-25	458-20	458-60	.....	458-25	.....	457-30	457-30	457-10	458-15	.....	.....
26	458-25	458-20	458-65	456-50	458-70	456-60	457-45	456-70	457-30	457-75	.....	457-20
27	.....	458-20	458-65	456-50	458-80	456-60	457-55	457-20	457-25	.....	.....	457-70
28	458-10	458-20	458-90	456-45	459-10	458-80	457-85	457-80	457-15	456-55	.....	457-75
29	458-25	.....	458-75	456-40	459-05	458-95	456-85	457-70	457-05	456-70	.....	457-75
30	458-25	.....	458-10	458-10	458-90	456-90	457-30	.....	457-05	456-90	.....	457-65
31	458-30	.....	.....	.....	459-00	.....	457-50	458-00	.....	457-05	.....	457-75

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1	457.65	457.80	457.95	456.25	457.80	456.50	457.85	458.35	456.40		457.75	
2	457.65	457.75	457.90	456.20	457.80	456.15	460.70	458.00	455.30		457.75	
3	457.65	457.80	457.90	455.95	457.75	456.75	464.50	457.65	457.80		457.20	
4	457.65	457.80	458.00	455.90	457.70	456.45	465.60	457.30	458.10		457.50	
5	457.70	457.80	458.00	456.10	457.65	457.65	464.40	457.95	458.00	457.70	457.50	
6	457.70	457.75	458.00	456.30	457.90	458.85	464.00	458.10	457.75	457.20	457.70	
7	457.70	457.80	457.95	457.10	458.25	459.50	463.35	458.10	457.65	457.80	457.85	
8	457.70	457.80	457.95	457.25	458.75	459.25	462.45	458.20	457.70	457.90	457.90	
9	457.70	457.80	457.90	457.60	459.25	458.15	461.00	458.15	457.90	458.00	457.50	
10	457.70	457.80	457.80	457.80	459.40	458.20	460.45	457.40	458.00	458.00	457.30	
11	457.70	457.80	458.00	457.85	459.10	458.70	460.60	457.55	457.80	457.70	457.30	
12	457.70	457.80	458.00	457.90	457.85	458.70	461.00	458.60	457.70	457.40		
13	457.70	457.80	458.00	458.00	456.50	458.45	460.60	458.60	457.70	457.00		
14	457.70	457.80	458.00	458.55	456.00	458.40	460.25	459.10	457.40	457.60	461.40	
15	457.75	457.80	457.95	458.60	455.70	458.15	459.60	459.40	457.40	457.80	461.50	
16	457.75	457.80	457.85	458.55	455.60	457.60	459.60	459.80	457.90	457.75	461.00	
17	457.75	457.80	457.80	458.45	455.50	458.25	459.85	459.65	457.80	457.70	460.55	
18	457.75	457.80	457.80	458.20	455.35	458.35	458.65	459.65	457.80	457.70	460.55	
19	457.75	457.80	457.65	458.05	455.25	458.20	458.75	459.75	458.10	457.65	460.30	
20	457.75	457.85	457.65	457.90	455.15	458.20	458.80	459.70	458.00	457.10	460.00	
21	457.75	457.85	457.65	457.85	455.00	458.15	459.30	459.65		457.70	459.80	
22	457.75	457.85	457.65	458.00	454.90	457.70	459.00	459.50		457.80	459.35	
23	457.75	457.75	457.60	458.10	454.95	456.95	459.15	459.30		457.90	459.25	
24	457.75	457.75	457.80	458.25	457.00	458.30	458.90	458.80		457.95	459.10	
25	457.75	457.95	457.65	458.10	457.30	459.65	458.50	458.40		457.85	458.85	
26	457.75	458.05	457.35	458.10	457.25	459.90	458.30	458.70		457.10	459.00	
27	457.75	458.05	457.25	457.70	457.50	459.75	458.00	458.70		456.70	459.05	
28	475.80	458.05	457.05	457.80	457.65	459.50	458.60	458.65		457.30	459.00	
29	457.80		456.80	457.80	457.65	458.90	458.00	458.65		457.50	459.15	
30	457.75		456.50	457.70	457.75	458.15	458.20	458.60		457.60	458.95	
31	457.80		456.50	457.75	457.75		458.15	458.25		457.80		
1920												
1	458.60	458.80	459.00		459.40	459.00	462.50	458.90	456.85	455.90	455.70	455.40
2	458.60	458.90	459.10		458.25	460.30	462.50	458.60	457.00	455.95	455.90	455.40
3	458.70	458.90	459.10		458.30	461.50	462.30	458.20	457.00	455.55	456.00	455.40
4	458.50	458.90	459.10		458.40	461.80	462.10	457.95	456.50	455.20	456.20	455.40
5	458.60	458.90	459.10		458.40	461.50	462.00	457.50	456.30	455.60	456.30	455.20
6	458.65	458.90	459.00		458.40	460.50	461.90	457.20	455.70	455.70	456.20	455.65
7	458.65	458.85	458.95		458.25	460.50	461.40	457.05	455.50	455.70	456.10	455.36
8	458.70	458.85	458.90		458.05	460.45	461.00	456.50	456.50	455.80	455.90	456.30
9	458.70	458.90	459.05		457.70	460.70	460.00	456.30	456.70	455.85	455.90	456.45
10	458.60	458.95	459.10		457.55	460.75	459.40	456.90	456.50	455.45	455.80	456.50
11	458.60	458.95	459.05		457.90	460.70	458.80	457.00	456.30	454.70		456.40
12	458.70	458.90	459.00		457.90	460.60	458.80	457.60	456.10	455.55		456.30
13	458.70	458.90	459.00	457.10	457.90	460.30	458.90	457.85	455.50	455.75		456.50
14	458.65	458.90	459.00	457.45	457.85	459.60	459.45	457.50	455.90	455.80	455.90	456.50
15	458.75	459.00	459.00	457.60	457.70	459.60	459.80	457.20	456.10	455.80	455.80	456.50
16	458.75	459.00		457.80	457.00	459.50	460.20	456.50		455.70	455.70	456.50
17	458.75	459.00		458.05	457.20	459.50	460.40	457.00		455.30	455.90	456.40
18	458.75	459.00		458.15	457.40	459.25	459.60	457.20	456.10	454.60	455.90	456.35
19	458.75	458.95		458.50	457.50	458.90	459.45	457.10	456.00	455.35	455.90	
20	458.80	458.95		459.10	457.50	458.30	459.20	457.00	455.40	455.30	455.50	
21	458.75	458.90		459.35	457.50	458.30	458.70	456.85	456.15	455.40	455.20	
22	458.75	458.90		459.85	457.80	458.60	458.30	456.30	456.12	455.30	455.10	
23	458.75	458.90		460.30	458.10	458.65	458.55	456.25	456.15	455.30	455.30	
24	458.75	458.95		460.45	458.90	458.90	458.60	456.75	456.15	455.10	455.50	
25	457.75	459.00		460.00	458.60	459.40	458.30	456.75	455.90	455.30	455.70	
26	457.75	459.00		460.15	458.80	460.00	458.30	456.80	455.20	455.60	455.70	
27	457.75	459.00		460.35	458.60	460.60	458.40	456.85	455.55	455.90	455.50	
28	458.85	458.90		460.10	458.60	461.90	458.50	456.80	455.60	456.30	455.30	
29	458.85	458.85		459.95	458.20	462.40	459.60	456.65	455.80	456.35	455.10	
30	458.80			459.75	457.75	462.45	460.10	456.45	455.90	456.30	455.30	
31	458.80			457.65	457.65		459.90	456.75				

## WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1.					457.10	457.00		455.50	454.20	454.70		
2.					456.60	457.40		455.60	454.10	454.70		
3.					456.60	458.40		455.80	453.90	454.70		
4.				455.95	456.55	458.30		455.80	453.90	454.70		
5.					456.40	458.50	455.10	455.80	453.90	454.85		
6.				465.70	456.30	458.00	455.30	455.60	453.90	454.85	455.60	
7.				459.80	456.20	457.60	455.50	455.10	454.26	454.85	455.80	
8.				460.80	456.10	457.55	455.60		454.35	454.45	455.60	
9.				463.50	455.85	457.65	455.50		454.60		455.30	
10.				462.60	455.85		455.30	455.30	455.10		455.10	
11.				461.50	455.90		455.30	455.10	455.30		455.00	
12.				460.60	456.00	456.70	455.50	454.70	455.60		455.30	
13.				459.60	456.10	456.60	456.00	454.70	455.70		455.00	
14.				459.20	456.40	456.50	456.50	453.90	455.90		455.30	
15.				459.10	456.50	456.40	456.60	453.90	465.10		455.80	
16.				458.75	456.50	456.40	456.65	454.35	465.30			
17.				458.00	457.00		455.95	454.35	465.30		453.80	
18.				457.80	457.10	456.00	455.30	454.25	455.90	454.00	455.50	
19.				457.80		455.75	455.85	454.25	455.30	454.10	455.70	
20.				457.70	457.00	455.65	455.50	454.05	455.50	454.25	455.70	
21.				457.60	457.00	455.45	455.70	454.00	456.10	454.50		
22.				457.60	456.90	455.30	455.70	453.80	456.10	454.70		
23.				457.50	456.90	455.20	455.50	453.80	456.12	454.30		
24.				457.40	456.80	455.00	455.50	454.25	455.60	454.20		
25.				457.20	456.00	455.00	455.30	454.20	455.10			
26.				457.80	455.90		455.30	454.25	455.10			
27.				458.10	455.80		455.90	454.25	455.10	455.00	456.00	
28.				458.10	455.75		456.30	454.50	455.10	455.00	456.05	
29.				458.10	455.65		456.60	454.55	455.10	455.00		
30.				458.15	455.60		456.70	454.70	454.70	454.60		
31.					455.90		456.50	454.40		454.20		
1922												
1.					460.10	458.10	465.80	456.10	455.80	455.50		
2.					460.10	458.10	465.20	456.20	455.70	455.70		
3.					460.10	457.60	465.60	456.30	455.30	456.10		
4.					460.00	457.60	465.50	456.30	455.10	456.20		
5.					459.95		465.50	456.20	455.00	456.20		
6.					459.80		465.80	455.55	455.00	456.20		
7.					459.70	457.60	457.20	455.55	456.70	456.20		
8.					459.15	458.00	457.00	455.20	456.70	455.20		
9.				457.30	459.55	458.10	456.60	455.30	456.80	455.40		
10.				458.50	460.20	458.10	456.80	455.40		456.10		
11.				459.75	460.50	457.60	457.00			456.10		
12.				460.25	461.00	457.30	457.00	456.60	456.20	456.10		
13.				460.80	460.00	457.30	457.10	456.20	456.20	455.80		
14.				461.40	459.70	457.40	457.20		456.20	455.80		
15.				461.30	459.40	457.50	457.20	456.30	456.10	455.30		
16.				461.00		457.70	456.50		456.20	455.40		
17.				462.70		457.70	456.20		455.50	456.20		
18.				464.20	459.80	457.70	456.50	456.50	455.70	456.20		
19.				464.20	460.00	457.00	456.40	455.40	455.80	456.20		
20.				463.65	460.00	458.10	457.00	456.10	456.10	456.10		
21.				462.65	459.60	457.70	457.00	455.60	456.30	456.10		
22.				461.80	459.20	457.70	456.90	456.20	456.30	455.40		
23.				461.40	459.20	457.60	456.40	456.50	456.40			
24.				461.30	459.20	457.60	455.80	456.40	455.70			
25.				461.50	458.90	457.60	456.70	456.70	455.80	456.20		
26.				461.70	458.80		456.90	456.60	456.20	456.30		
27.				461.50	458.40	457.50	456.90	456.30	456.20	456.20		
28.				461.30	457.80	457.60	456.70	455.60	456.20	456.10		
29.				461.05	457.80	457.90	456.65	456.30	455.10	455.60		
30.				460.70	458.20		456.10	456.70	456.10	455.60		
31.					458.20		455.60	456.80		456.00		

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1					461.00	457.20	458.00			455.60		
2					460.00	457.20	457.60		455.20	455.70		
3					459.75	456.90	457.40		455.00	455.70		
4					460.80	456.80	457.10		455.00	455.70		
5					461.60	456.80	457.10		455.00	455.80		
6					461.30	456.80		456.30	455.20	455.80		
7					461.00	456.80	456.90	456.30	455.40	455.70		
8					460.30	456.70	457.10	456.40	455.60	455.80		
9					460.00	456.50	456.80	456.30	455.70	455.80		
10					459.60	456.10		456.20	455.70	455.80		
11					459.25	456.30		456.30	455.70	455.80		
12					459.00	456.50	458.80	456.30	455.70	455.80		
13					458.70	456.40	458.90	456.30	455.80	455.80		
14					458.80	456.30	458.85	456.20	455.80	455.40		
15					458.40	456.30	458.80	456.10	455.70	455.70		
16					458.20	456.30	458.80	456.10	455.60	455.70		
17					457.80	456.10	458.80	455.90	455.60	455.40		
18					457.80	456.50	458.80	455.90	455.70	455.00		
19					457.80	456.70	458.80	455.70	455.70			
20				459.60	458.00		458.80	455.60	455.80			
21				461.90	458.00	456.90	458.80	455.70	455.80			
22				463.00	458.00	457.30	458.70	455.70	455.80			
23				463.60	458.00	459.90	458.50	455.80	455.80			
24				463.80	457.90	461.10	458.60	455.90	455.70			
25				463.90	457.70	461.10	458.70	455.80	455.70			
26				463.80	457.50	460.10	458.70	455.60	455.70			
27				463.50	457.20	459.70	458.60	455.60	455.70			
28				462.90	457.20	459.40	458.60	455.70	455.80			
29				462.20	457.20	459.00	458.50	455.70	455.70			
30				462.20	457.20	458.60	458.20	455.60	455.50			
31					457.20		458.20	455.60				
1924												
1						455.06	455.02	454.60		456.20		
2						455.06	455.02	454.10		456.00		
3						455.06	455.02	454.40		455.90		
4						455.06	455.06	454.40		455.80		
5						455.03		454.40		455.70		
6						455.03	454.10	454.40		455.80		
7						455.06	454.10	454.40		455.90		
8						455.06	454.10	454.40		455.80		
9						455.06	454.40	454.40	455.50	455.70		
10					455.30	455.06	454.60	454.90	455.30	455.60		
11					455.04	455.02	454.60	454.80	455.10	455.60		
12					455.04	455.01	454.60	454.50	455.10	455.90		
13					455.01	455.10	454.40	454.50	455.10	457.80		
14					455.01	455.10	454.40	454.50	455.10	459.30		
15					455.10	455.04	454.40	454.50	455.30	459.40		
16					455.20	455.01	454.40	454.70	455.30	458.90		
17					455.30	455.02	454.40	454.90	455.30	458.40		
18					455.03	455.02	454.40	454.90	455.20	457.90		
19					455.04	455.20	454.40	454.97	455.20	457.70		
20					455.30	455.60	454.40	454.94	455.10	457.00		
21					455.30	456.30	454.40		455.20	456.60		
22					455.30	456.60	454.60	454.94	455.30	456.30		
23					455.30	456.50		454.80	455.50	456.10		
24					455.20	456.50	454.60		455.70	456.00		
25					455.10	456.40	454.50		456.10	455.90		
26					455.03	456.30	454.50		456.20	455.70		
27					455.04	456.40	454.40		456.10	455.60		
28					455.02	455.90	454.40		456.00	455.50		
29					455.04		454.40		456.10	455.40		
30					455.06	455.04	454.60		456.20	455.50		
31					455.06		454.60			455.50		

## WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1.....				458.20	461.60	457.30	458.60	456.60	458.80	459.60		
2.....				458.10	461.60	457.70	458.50	456.40	458.90	460.80		
3.....				458.10	461.10	458.20	458.20	455.80	456.10	460.90		
4.....				458.00	460.60	458.30	458.00	456.40	456.40	460.80		
5.....				458.00	460.00	458.70	457.90	457.00	456.80	460.20		
6.....				457.90	459.80	458.50	457.50	457.20	456.70	460.20		
7.....				457.70	459.20	459.40	458.50	457.20	456.40	459.80		
8.....				457.40	459.10	459.50	458.50	457.20	456.50	459.60		
9.....				457.20	458.90	460.90	458.30	457.00	457.00	459.50		
10.....				457.10	458.40	461.30	458.30	456.50	457.70	459.20		
11.....				456.90	458.10	461.90	458.30	456.60	458.00	459.00		
12.....				456.90	458.10	461.50	458.10	456.80	458.20	458.30		
13.....				456.70	458.10	461.30	457.10	457.00	458.20	458.30		
14.....				456.80	458.00	461.00	457.20	457.00	457.90	458.40		
15.....				456.95	457.90	460.40	457.50	457.00	457.90	458.40		
16.....				456.95	457.90	460.10	457.70	456.90	457.90	458.40		
17.....				456.70	457.60	459.80	457.80	456.50	457.80	458.40		
18.....				456.50	457.30	459.50	457.80	456.60	457.80	458.30		
19.....				456.40	457.70	459.30	457.60	456.80	457.80	457.80		
20.....				456.40	457.60	459.00	456.70	456.80	457.70	457.80		
21.....				456.60	457.60	458.60	457.30	456.90	457.40	457.90		
22.....				456.90	457.60	458.00	457.70	456.90	457.60	458.10		
23.....				457.40	457.60	458.50	457.80	456.80	458.40	458.30		
24.....				457.90	457.40	458.50	457.80	456.30	458.20	458.30		
25.....				459.80	457.40	458.70	457.70	456.40	458.10	458.30		
26.....				460.40	457.60	458.70	457.50	456.60	458.10	457.60		
27.....				460.00	457.60	459.00	456.10	457.00	457.90	457.60		
28.....				460.20	457.70	459.00	456.60	457.00	457.10	457.70		
29.....				460.20	457.70	458.40	456.70	457.00	457.60	457.80		
30.....				461.00	457.70	459.00	456.70	456.90	457.80	457.80		
31.....				.....	457.50	.....	456.70	455.80	.....	457.80		
1926												
1.....				459.60	458.00	458.50	457.80	457.90	458.00	459.40		
2.....				459.60	.....	458.50	457.50	456.70	458.30	459.30		
3.....				459.60	457.90	458.60	457.30	457.20	458.30	459.40		
4.....				459.40	457.90	458.70	457.20	457.70	458.40	458.90		
5.....				459.00	457.90	458.70	457.00	457.80	458.20	460.20		
6.....				458.60	457.80	458.60	456.90	457.80	457.20	461.40		
7.....				458.40	457.80	458.00	457.50	457.80	457.40	462.30		
8.....				458.00	457.60	458.00	457.80	457.70	458.30	462.20		
9.....				457.80	457.60	457.90	458.00	456.70	459.00	462.00		
10.....				457.80	457.40	457.80	458.00	457.10	459.10	461.40		
11.....				457.60	457.40	457.80	459.10	457.80	459.10	460.40		
12.....				457.20	457.40	457.80	459.90	457.80	459.00	460.40		
13.....				457.20	457.60	457.70	460.80	457.70	458.30	460.30		
14.....				457.60	457.60	457.60	460.40	457.70	458.40	460.20		
15.....				457.60	457.60	457.60	460.40	457.60	458.80	460.00		
16.....				458.00	457.50	457.60	460.20	456.80	458.60	460.00		
17.....				458.60	456.70	457.60	460.00	457.00	458.80	460.00		
18.....				458.80	456.80	458.10	460.00	457.00	459.00	459.80		
19.....				459.60	456.80	458.40	459.40	457.00	459.00	460.00		
20.....				459.70	456.70	459.50	459.40	457.30	459.00	460.50		
21.....				459.60	456.70	461.10	459.30	457.50	459.60	461.00		
22.....				459.60	456.70	462.00	459.30	457.40	459.80	461.40		
23.....				459.60	456.70	462.40	459.10	457.00	460.40	461.70		
24.....				459.60	456.70	462.50	459.30	457.60	460.60	461.70		
25.....				459.60	457.30	462.00	459.20	458.30	461.00	460.80		
26.....				459.20	458.00	461.40	458.70	458.30	460.80	460.80		
27.....				459.00	458.60	461.00	458.50	458.30	460.00	461.80		
28.....				458.70	459.60	460.60	458.30	458.20	460.10	461.80		
29.....				458.20	459.40	459.00	458.10	458.20	460.20	461.70		
30.....				458.20	459.00	457.90	458.10	456.90	460.80	461.70		
31.....				.....	458.50	.....	458.00	457.20	.....	461.70		

WATER LEVELS—RAINY RIVER—EMO, ONTARIO—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1.....					461.00	457.20	458.00			455.60		
2.....					460.00	457.20	457.60		455.20	455.70		
3.....					459.75	456.90	457.40		455.00	455.70		
4.....					460.80	456.80	457.10		455.00	455.70		
5.....					461.60	456.80	457.10		455.00	455.80		
6.....					461.30	456.80		456.30	455.30	455.80		
7.....					461.00	456.80	456.90	456.30	455.40	455.70		
8.....					460.30	456.70	457.10	456.40	455.60	455.80		
9.....					460.00	456.50	456.80	456.30	455.70	455.80		
10.....					459.60	456.10		456.20	455.70	455.80		
11.....					459.25	456.30		456.30	455.70	455.80		
12.....					459.00	456.50	458.80	456.30	455.70	455.80		
13.....					458.70	456.40	458.90	456.30	455.80	455.80		
14.....					458.80	456.30	458.85	456.20	455.80	455.40		
15.....					458.40	456.30	458.80	456.10	455.70	455.70		
16.....					458.20	456.30	458.80	456.10	455.60	455.70		
17.....					457.00	456.10	458.80	455.90	455.60	455.40		
18.....					457.80	456.50	458.80	455.90	455.70	455.00		
19.....					457.80	456.70	458.80	455.70	455.70			
20.....				459.00	458.00		458.80	455.60	455.80			
21.....				461.90	458.00	456.90	458.80	455.70	455.80			
22.....				463.00	458.00	457.30	458.70	455.70	455.80			
23.....				463.60	458.00	459.90	458.50	455.80	455.80			
24.....				463.80	457.90	461.10	458.60	455.90	455.70			
25.....				463.90	457.70	461.10	458.70	455.80	455.70			
26.....				463.80	457.50	460.10	458.70	455.60	455.70			
27.....				463.50	457.20	459.70	458.60	455.60	455.70			
28.....				462.90	457.20	459.40	458.60	455.70	455.80			
29.....				462.20	459.20	459.00	455.50	455.70	455.70			
30.....				462.20	457.20	458.60	458.20	455.60	455.50			
31.....					457.20		458.20	455.60				

WATER LEVELS—RAINY RIVER—BIRCHDALE, MINN.

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1											450.80	
2											450.90	
3											450.80	
4										451.20	450.80	
5										451.40	450.70	
6										451.50	450.40	
7										451.40	450.50	
8										451.30	450.80	
9										451.00	450.80	
10										450.90	450.80	
11										451.10	450.60	
12										451.30	450.70	
13										451.30		
14										451.30		
15										451.10		
16										450.60		
17										450.70		
18										451.00		
19										451.20		
20										451.30		
21										451.40		
22										451.20		
23										450.70		
24										450.70		
25										450.80		
26										451.20		
27										451.20		
28										451.20		
29										451.20		
30										450.80		
31										450.70		
1912												
1					453.30	452.50	451.20	453.20	452.10	453.60	452.30	
2					453.40	452.40	451.30	453.20	451.80	453.50	452.20	
3					453.40	451.80	451.50	453.20	451.60	453.30	452.20	
4					453.40	452.00	451.60	453.20	452.10	453.20	451.70	
5					453.60	452.30	451.30	452.90	452.80	453.00	451.90	
6					453.20	452.20	451.30	452.80	453.20	452.90	452.20	
7					453.80	452.10	451.40	453.00	453.20	452.50	452.10	
8					454.20	452.20	451.10	453.10	453.10	452.70	452.20	
9					454.30	452.20	451.50	453.00	453.80	452.80	452.30	
10					454.40	451.80	451.90	453.00	453.00	452.80	452.10	
11					454.40	451.90	452.20	452.90	453.00	452.80	451.70	
12					454.30	452.00	452.30	452.50	452.90	452.80	451.90	
13					453.50	451.90	452.40	452.20	452.70	452.90	452.00	
14					453.90	451.90	452.40	452.30	452.60	452.50	452.10	
15					454.20	451.90	452.00	452.30	452.50	452.70	452.10	
16					454.20	451.80	452.30	452.00	452.10	452.60	452.10	
17					454.20	451.60	452.30	451.80	452.30	452.60	452.10	
18					454.00	451.70	452.60	452.00	452.30	452.50	451.40	
19					453.70	451.70	452.60	451.90	452.10	452.50	451.90	
20					452.90	451.70	451.80	452.10	452.00	452.40	452.00	
21					453.30	451.80	452.30	452.30	452.00	452.00	452.10	
22					453.40	451.80	452.30	452.00	451.80	452.00	452.10	
23					453.30	451.80	452.50	451.80	451.70	452.20	452.10	
24					453.10	451.40	452.40	451.60	452.20	452.10	452.00	
25					453.00	451.50	452.50	451.70	452.80	452.20	451.50	
26					452.80	451.60	452.80	451.50	453.80	452.10	451.70	
27					451.90	451.40	452.60	451.60	454.10	452.10	451.80	
28					452.90	452.40	452.90	451.70	453.90	451.80	452.20	
29					452.50	452.60	451.40	452.80	451.90	453.80	452.00	
30					453.00	452.60	451.50	453.10	452.00	453.50	452.20	
31					452.30		453.20	452.10		452.30		

WATER LEVELS—RAINY RIVER—BIRCHDALE, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1				453.60	454.80	454.00	454.50	453.90	451.20	451.70	452.20	451.90
2				453.70	454.40	454.00	454.60	453.70	451.30	451.70	452.20	452.30
3				453.60	454.40	454.30	454.50	453.60	451.80	451.70	452.00	452.60
4				453.60	454.40	454.30	454.80	453.40	452.00	451.70	452.00	452.70
5				453.80	454.40	454.00	454.30	453.10	452.10	451.80	452.30	452.50
6				453.90	454.90	454.40	454.30	453.00	452.10	452.00	452.30	452.40
7				453.70	455.00	454.60	454.90	453.00	452.10	452.70	452.30	
8				453.90	454.90	455.00	454.90	453.20	452.20	453.20	452.30	
9				453.60	454.70	455.00	454.80	453.40	452.20	453.50	452.10	
10				454.50	454.40	454.90	454.90	453.30	452.20	453.70	451.50	
11				454.50	454.30	454.70	455.10	452.90	452.20	454.00	451.40	
12				453.70	453.80	454.30	455.20	453.10	452.30	454.30	451.80	
13				453.20	453.90	454.00	455.60	453.20	452.50	454.10	451.80	
14				452.90	453.80	453.70	456.00	453.20	452.40	454.10	452.10	
15				455.00	453.80	453.40	456.30	453.30	452.10	454.00	452.10	
16				455.30	453.80	453.20	456.30	453.30	452.30	453.90	451.90	
17				455.40	454.00	453.30	456.70	453.30	452.30	453.70	451.60	
18				455.60	454.70	453.20	456.80	453.00	452.30	453.40	451.70	
19				455.50	454.80	453.10	456.70	453.00	452.20	453.30	451.80	
20				455.00	455.00	453.00	456.50	453.10	452.30	452.90	451.80	
21				454.80	454.70	453.30	456.00	453.20	452.20	453.00	451.70	
22				453.80	454.50	453.40	455.90	453.20	452.00	452.90	451.80	
23				454.60	454.40	453.20	455.80	453.20	452.10	452.80	451.90	
24				454.50	454.00	453.30	455.50	453.20	452.00	452.80	451.80	
25				454.80	454.40	453.30	455.40	452.80	451.90	452.80	452.20	
26				455.00	454.00	453.30	455.30	452.40	451.80	452.80	452.40	
27				455.40	454.00	453.30	455.10	452.10	451.80	452.60	452.40	
28				455.20	453.90	453.20	454.80	452.00	451.80	452.70	452.40	
29				455.30	453.80	453.80	454.90	452.00	451.70	452.60	452.40	
30				455.00	453.80	454.20	454.80	452.00	451.70	452.40	452.30	
31					453.70		454.50	451.90		452.30		
1914												
1					454.80	454.30	453.90	453.50	453.00	453.60	454.00	453.40
2					455.10	454.40	453.70	453.00	453.30	453.60	453.00	453.60
3					455.80	454.40	453.80	452.60	453.40	453.50	453.70	452.60
4					456.10	454.40	453.80	453.10	453.40	453.40	454.00	453.60
5				451.80	456.40	454.00	453.10	453.20	453.40	452.40	454.00	453.80
6				451.30	456.50	453.80	452.70	453.30	453.20	453.20	453.90	453.50
7				451.60	456.30	453.80	453.70	453.30	452.10	453.40	454.00	452.20
8				451.80	456.20	453.10	453.80	453.30	451.10	453.50	453.90	453.10
9				451.80	455.80	453.80	453.80	452.90	452.60	453.50	453.00	453.40
10				451.70	456.60	455.40	453.80	452.40	453.10	453.80	453.60	453.50
11				451.80	455.10	456.20	453.70	453.00	453.20	453.90	453.80	454.00
12				451.90	455.00	456.40	453.80	453.20	453.20	453.30	453.70	454.50
13				451.90	454.80	456.00	454.70	453.20	453.10	454.30	453.70	454.40
14				451.70	454.60	455.60	456.20	453.20	452.30	454.60	453.40	453.50
15				452.00	454.40	454.60	456.40	453.20	453.20	454.50	453.30	454.50
16				452.20	454.30	454.50	456.20	453.10	453.60	454.30	452.50	454.80
17				452.60	454.00	454.20	455.90	452.10	453.80	454.30	453.90	455.10
18				453.30	453.60	454.10	455.80	452.80	454.00	453.80	454.40	455.10
19				453.90	453.80	453.90	455.20	453.10	453.90	453.10	454.50	455.00
20				453.80	454.80	453.70	454.50	453.10	453.90	453.80	454.70	455.10
21				453.80	456.00	453.60	454.60	453.10	453.10	454.00	455.00	453.70
22				453.90	456.20	452.80	454.50	453.10	453.80	454.00	454.80	454.20
23				453.80	456.00	453.10	454.80	453.00	454.00	454.20	454.50	454.80
24				453.80	455.70	453.20	454.60	452.20	454.10	454.30	454.40	455.00
25				453.70	455.10	453.20	454.50	453.00	454.10	454.20	454.40	455.10
26				454.00	455.80	453.30	454.30	453.20	454.10	453.50	454.40	453.00
27				453.60	455.00	453.30	454.00	453.30	453.90	454.10	454.30	452.40
28				453.80	454.80	453.20	454.20	453.40	452.90	454.20	454.00	452.50
29				453.80	454.90	452.70	454.10	453.40	453.60	454.20	453.70	454.50
30				454.30	455.00	453.40	454.00	453.30	453.70	454.20	452.60	455.20
31					455.00		453.70	452.30		454.10		455.40



## WATER LEVELS—RAINY RIVER—BIRCHDALE, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1	455-40	454-10	452-40	452-10	453-40	452-30	457-90	453-60	452-20	452-60	451-30	452-10
2	455-50	454-40	452-70	452-00	452-90	452-60	457-40	452-80	452-20	452-50	452-00	453-50
3	455-10	454-50	453-10	452-00	452-90	452-70	456-70	453-10	452-20	452-40	452-20	453-70
4	454-70	454-50	453-50	452-30	453-00	452-60	456-20	453-30	452-40	451-60	452-40	454-10
5	455-10	454-30	453-80	451-50	453-10	452-60	455-70	453-30	452-50	452-10	452-30	454-70
6	455-20	454-40	453-80	452-20	453-20	452-60	455-30	453-20	451-20	452-40	452-30	454-50
7	455-20	454-40	453-40	452-40	453-50	452-90	455-70	453-10	450-50	452-60	452-20	454-50
8	455-30	453-50	452-50	452-30	453-90	453-20	455-60	453-00	451-80	452-70	451-60	454-60
9	455-40	453-40	453-20	452-60	453-40	453-30	455-20	453-00	452-40	452-80	452-10	454-70
10	455-30	453-40	453-30	452-70	453-50	453-50	454-90	453-00	452-20	452-80	452-40	454-70
11	454-20	453-50	453-20	452-60	454-40	453-80	454-60	453-00	452-30	451-80	452-60	454-70
12	454-80	453-60	453-20	451-80	454-60	454-20	454-40	453-00	452-20	452-50	452-80	454-60
13	455-00	453-50	453-20	452-40	454-80	455-50	454-40	453-00	451-60	452-70	452-90	454-50
14	455-00	453-50	452-60	452-70	454-70	456-90	454-40	453-00	451-90	452-50	452-20	454-50
15	455-00	453-20	450-40	453-10	454-50	457-50	454-30	453-10	452-10	452-40	452-00	454-40
16	455-00	453-50	451-80	453-30	453-90	457-80	454-20	452-70	452-20	452-30	452-30	454-50
17	455-20	453-80	452-00	453-30	454-60	457-90	454-10	452-60	452-20	452-20	452-20	454-80
18	454-80	453-70	451-80	453-10	455-60	458-00	453-90	452-70	452-30	451-30	452-30	455-00
19	454-90	453-80	451-90	452-10	456-40	457-70	453-90	452-60	452-40	451-90	452-50	455-00
20	455-10	453-80	452-10	452-60	456-50	457-10	453-70	452-70	451-90	452-20	452-60	454-30
21	455-10	453-70	452-00	452-80	456-30	456-40	453-80	452-70	452-20	452-10	452-40	454-70
22	455-20	452-90	451-30	452-90	455-70	456-00	453-60	452-60	452-20	452-30	453-30	455-20
23	455-20	453-00	451-80	452-90	454-70	455-60	453-50	452-50	452-20	452-20	455-10	455-00
24	455-00	453-00	451-90	452-90	454-60	455-40	453-40	452-60	452-40	452-00	455-90	455-10
25	454-70	453-10	452-00	452-20	454-00	455-30	453-60	452-60	452-60	451-30	455-00	455-00
26	455-00	453-10	452-40	452-10	454-20	455-50	453-60	452-60	452-60	452-10	454-90	453-10
27	455-10	453-00	452-70	453-00	453-90	456-10	453-70	452-60	451-50	452-30	454-90	452-30
28	455-00	453-00	452-00	453-20	453-80	456-90	453-70	452-60	452-00	452-30	454-70	454-00
29	454-80	453-00	451-60	453-60	453-60	457-70	453-70	452-40	452-30	452-30	454-00	454-90
30	455-00	453-00	452-10	453-60	453-80	458-20	453-60	452-10	452-50	452-30	451-60	455-10
31	455-00	452-20	452-00	453-00	453-80	458-00	453-60	452-20	452-00	452-30	455-20	455-20

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	455-30	454-80	455-20	454-10	459-30	461-40	459-90	455-00	454-10	454-20	453-80	.....
2	455-00	455-10	455-20	454-10	459-40	461-70	459-90	454-60	453-90	453-80	454-00	.....
3	454-20	455-20	455-20	452-60	459-10	461-70	459-80	454-20	453-80	454-10	454-00	.....
4	454-70	455-20	455-30	452-80	458-80	461-70	458-00	454-10	453-50	454-10	454-10	.....
5	455-00	455-30	455-30	453-00	458-60	461-50	457-00	454-30	453-00	453-90	454-10	.....
6	455-10	455-00	454-50	453-50	458-70	461-40	457-00	454-30	454-00	453-80	453-30	.....
7	455-30	454-20	454-60	453-50	458-50	461-30	456-00	454-10	454-20	453-70	453-60	.....
8	455-30	454-80	455-00	453-40	458-70	461-10	458-50	454-20	454-70	453-60	454-00	.....
9	455-10	455-10	455-10	453-20	458-70	461-00	458-40	454-10	454-50	453-30	454-10	.....
10	454-20	455-20	455-10	452-80	458-90	460-90	458-40	454-10	454-50	453-10	454-00	.....
11	454-80	455-30	455-10	453-20	458-70	460-80	458-30	454-40	453-90	453-70	454-00	.....
12	455-10	455-20	455-00	453-50	458-50	460-60	458-20	454-60	454-10	453-70	454-00	.....
13	455-50	455-10	454-30	453-90	458-50	460-40	458-10	454-60	454-10	453-60	453-10	.....
14	455-40	454-40	454-70	455-20	458-50	460-30	458-00	454-60	454-10	453-50	453-50	.....
15	455-30	455-00	454-90	456-20	458-50	460-30	457-90	454-80	454-10	453-40	453-90	.....
16	455-00	455-20	455-00	457-30	458-90	460-30	457-80	454-80	454-40	453-00	453-80	.....
17	455-00	455-50	455-10	458-10	459-40	460-20	457-60	454-90	454-60	453-30	453-80	.....
18	455-00	455-50	455-10	459-20	459-90	460-10	457-40	454-80	454-20	453-50	453-80	.....
19	455-70	455-20	460-90	460-10	460-10	459-90	457-20	454-80	454-40	453-60	453-80	.....
20	455-60	454-40	460-80	460-10	459-80	457-00	456-60	453-80	453-60	453-40	453-40	.....
21	454-60	454-80	460-60	460-00	459-60	456-70	454-40	453-20	453-50	453-60	453-60	.....
22	455-00	455-00	460-40	460-00	459-50	456-50	454-80	453-40	453-50	453-50	453-80	.....
23	454-90	455-30	460-40	460-30	459-40	456-20	454-80	454-40	453-00	453-80	453-80	.....
24	454-10	455-40	455-10	460-20	460-40	459-60	455-90	454-60	454-40	453-30	453-80	.....
25	454-70	455-40	455-10	460-40	460-40	460-00	455-70	454-00	454-50	453-50	453-80	.....
26	454-90	455-30	455-00	460-60	460-50	460-20	455-60	454-20	454-30	453-60	453-90	.....
27	455-10	455-40	454-30	460-50	460-60	460-30	455-80	454-20	454-30	453-60	453-40	.....
28	455-10	455-60	454-90	460-10	460-60	460-20	455-60	454-00	454-20	453-60	453-70	.....
29	455-20	454-90	455-50	460-00	460-90	460-00	455-50	454-30	454-10	453-70	453-80	.....
30	455-00	455-50	455-50	459-60	461-00	459-90	455-40	454-30	454-20	453-20	453-80	.....
31	454-10	455-20	455-20	461-20	461-20	461-20	455-20	454-30	454-30	453-70	453-70	.....

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—BIRCHDALE, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1					454.80	453.60	453.20	452.80	452.60	450.40	451.80	
2					454.90	453.60	452.80	452.90	452.60	451.50	451.60	
3					455.00	453.40	452.20	453.00	451.80	451.20	451.50	
4					455.00	452.90	452.80	452.90	450.60	451.40	451.30	
5					455.00	453.10	452.70	452.80	451.90	451.30	451.30	
6					454.80	453.20	453.10	452.20	452.00	451.30	451.10	
7					454.10	453.10	453.30	452.70	452.10	451.30	451.00	
8					454.30	453.10	453.30	452.90	452.20	451.20	451.10	
9					454.50	453.10	453.20	453.00	452.20	451.30	451.10	
10					454.50	452.70	453.20	453.00	452.20	451.30	451.20	
11					454.50	452.50	453.30	453.00	452.20	451.40	451.20	
12					454.40	452.70	453.50	452.90	452.00	451.50	451.10	
13					454.00	452.50	453.40	452.70	451.90	451.40	451.30	
14					454.00	451.80	453.30	452.40	451.80	451.30	451.30	
15					454.10	451.60	453.30	452.90	451.80	451.20	451.20	
16					454.20	451.60	453.30	452.50	451.90	451.10	451.20	
17					454.10	451.40	453.20	452.40	451.90	451.50	451.20	
18					454.00	451.60	453.20	452.30	451.90	451.60	451.20	
19					454.10	451.50	453.20	452.50	451.90	451.40	450.40	
20					454.10	451.70	453.10	452.50	451.80	451.40	451.30	
21					454.00	452.80	453.10	452.50	451.80	450.30	451.50	
22					453.90	453.20	453.00	452.60	451.70	449.90	451.90	
23					453.80	453.20	453.00	452.70	451.60	451.00	451.80	
24					453.70	453.30	453.10	452.60	451.50	451.30	451.80	
25					453.70	453.30	453.10	452.50	451.40	451.70	452.00	
26					453.60	453.20	453.10	452.40	451.40	451.80	452.30	
27					453.30	453.00	453.00	452.20	451.40	451.80	453.50	
28					453.20	453.00	453.00	452.30	451.50	451.80	453.80	
29					453.20	452.90	452.90	452.50	451.50	451.40	453.80	
30					453.20	452.60	453.00	452.60	451.40	451.60	454.10	
31					453.00	452.90	452.90	452.60	451.40	452.00	454.10	
1918												
1				451.80	451.20	453.20	451.00	452.10	452.30	451.40	451.50	
2				451.70	454.20	453.30	450.70	452.00	451.40	451.40	451.50	
3				451.50	454.20	453.20	450.60	452.00	450.80	451.50	452.50	
4				451.30	454.00	453.40	450.40	451.80	451.50	451.50	451.20	
5				451.20	453.60	453.40	450.50	451.30	451.80	451.50	451.00	
6				451.00	453.90	453.30	450.90	451.40	452.00	451.50	451.50	
7				450.80	453.20	453.10	451.50	451.70	452.10	451.50	451.50	
8				450.80	453.50	453.00	450.60	451.80	451.70	451.50	450.70	
9				450.70	453.60	453.00	451.10	451.90	451.40	451.60	451.40	
10				450.80	453.70	452.50	451.20	452.00	451.60	451.70	451.40	
11				450.70	453.70	453.00	451.20	452.10	451.90	451.90	451.40	
12				450.70	453.30	452.50	451.40	452.00	452.00	452.00	451.60	
13				450.80	452.10	452.20	451.30	452.00	452.10	452.10	451.70	
14				450.70	452.50	451.80	451.20	452.30	452.20	452.10	451.60	
15				450.70	452.40	451.60	450.60	452.40	452.10	452.00	451.50	
16				450.80	452.40	451.60	450.70	452.40	452.00	452.00	451.50	
17				450.90	452.20	451.10	450.70	452.50	451.90	452.00	451.50	
18				450.90	452.20	451.40	451.10	452.00	452.00	452.00	451.50	
19				451.00	452.20	451.30	451.10	451.10	451.90	452.00	451.60	
20				451.20	451.90	451.30	451.10	452.10	451.80	451.60	451.70	
21				451.30	452.10	451.50	451.60	452.40	451.60	451.50	451.90	
22				450.80	452.20	451.30	451.50	452.40	451.60	451.70	451.70	
23				451.00	452.20	451.30	451.70	452.20	451.70	452.10	451.70	
24				451.00	452.30	450.90	451.70	452.10	451.60	452.10	451.70	
25				450.90	452.60	451.20	451.70	452.00	451.50	452.20	451.70	
26				450.90	453.10	451.30	451.70	451.00	451.50	452.20	451.80	
27				450.90	453.10	451.30	451.80	451.50	451.40	451.80	451.80	
28				451.00	453.30	451.20	452.00	452.00	451.40	451.00	451.50	
29				450.80	453.30	451.30	451.40	452.20	451.50	451.20	451.20	
30				451.00	453.20	451.40	451.30	452.20	451.50	451.40	451.40	
31				453.30	453.30	451.40	452.00	452.20	451.50	451.40	451.40	

## WATER LEVELS—RAINY RIVER—BIRCHDALE, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet].

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1				452.00	453.10	452.80	454.00	453.40	452.60	453.40	452.90	
2				451.80	453.00	451.50	455.00	453.30	450.90	453.50	453.00	
3				451.60	453.00	451.60	458.00	453.00	452.80	453.50	453.00	
4				451.50	453.10	452.10	460.00	452.80	453.20	453.60	453.10	
5				451.60	453.00	452.50	459.00	453.10	453.40	453.40	453.10	
6				451.80	453.10	454.00	458.60	453.40	453.10	453.00	453.30	
7				452.60	453.30	454.40	458.00	453.40	453.00	453.00	454.10	
8				452.40	453.70	454.50	457.40	453.40	453.00	453.40	454.10	
9				452.60	454.10	454.10	456.00	453.30	453.00	453.60	453.30	
10				452.70	454.40	453.50	455.80	453.80	453.10	453.50	452.80	
11				452.90	454.40	454.00	455.40	452.80	453.10	453.30	453.10	
12				453.10	453.40	453.90	455.50	453.40	453.00	453.00	453.30	
13				453.30	453.70	453.80	455.40	453.80	453.00	452.60	453.80	
14				453.60	451.90	453.80	455.10	454.10	452.90	452.90	454.30	
15				453.90	451.60	453.60	454.70	454.60	452.90	453.00	455.50	
16				453.90	451.50	452.90	454.40	454.70	453.00	453.10	455.50	
17				453.70	451.20	453.30	454.00	454.80	453.00	453.00	455.50	
18				453.50	451.20	453.60	453.80	454.50	453.00	453.00	455.10	
19				453.50	451.10	453.50	454.20	454.50	453.10	452.90	454.70	
20				453.40	450.90	453.50	454.20	454.50	453.30	452.20	454.70	
21				453.30	451.00	453.50	454.20	454.60	453.10	452.90	454.50	
22				453.30	450.80	453.20	454.10	454.60	452.40	453.10	454.40	
23				453.40	450.60	452.70	454.10	454.50	453.00	453.10	454.30	
24				453.50	452.20	453.50	454.00	454.00	453.50	453.30	454.30	
25				453.40	452.50	454.50	453.80	453.80	453.50	452.20	454.20	
26				453.40	452.40	454.80	453.60	453.80	453.50	452.20	454.20	
27				453.30	452.50	454.70	453.50	454.00	453.50	452.20	454.30	
28				453.20	452.70	454.50	453.40	454.00	453.00	452.40	454.50	
29				453.10	452.70	454.10	453.30	454.00	452.50	452.70	455.00	
30				453.00	452.80	453.50	453.50	453.90	453.30	452.90	455.10	
31					452.80		453.50	453.80		452.90		
1920												
1				456.10	455.40	455.20	457.50	455.70	453.10	452.30		
2				456.20	454.90	455.80	457.50	455.00	453.20	452.20		
3				458.00	454.60	456.80	457.40	454.40	453.50	451.70		
4				459.00	454.50	457.00	457.30	454.00	453.40	451.50		
5				458.90	454.50	457.10	457.10	453.80	452.90	451.40		
6				458.00	454.40	456.50	456.80	453.60	452.10	451.80		
7				457.00	454.40	456.30	456.70	453.40	452.10	452.00		
8				456.10	454.30	455.90	456.50	453.40	452.60	452.00		
9				454.50	454.00	456.00	456.00	453.00	453.00	452.00		
10				454.00	454.00	456.10	455.20	452.80	453.00	451.30		
11				453.80	454.00	456.30	455.40	453.00	452.90	451.50		
12				453.00	454.00	456.20	454.80	453.70	452.80	451.50		
13				453.50	454.10	455.90	454.70	454.00	452.20	451.70		
14				453.70	454.10	455.60	455.10	453.80	452.50	451.90		
15				454.00	454.00	455.50	455.50	453.60	452.50	451.90		
16				454.00	454.00	455.70	455.80	452.90	452.50	451.80		
17				454.20	453.30	455.90	456.00	453.50	452.60	451.70		
18				454.20	453.50	455.80	455.50	453.60	452.50	450.90		
19				454.50	453.80	454.80	455.50	453.60	452.00	451.50		
20				455.10	453.70	454.80	455.30	453.40	451.70	451.80		
21				455.20	453.70	454.80	454.90	453.20	452.00	451.80		
22				455.50	454.00	454.80	454.60	453.00	452.50	452.00		
23				456.00	454.40	454.70	454.10	452.50	452.70	452.00		
24				456.00	454.80	454.90	454.50	453.00	452.60	451.70		
25				455.80	455.30	455.00	454.90	453.00	452.60	451.20		
26				455.80	455.30	455.50	454.50	453.00	452.70	451.70		
27				455.60	455.20	456.00	454.70	452.90	452.40	451.90		
28				455.50	454.90	457.00	454.80	452.90	451.70	452.20		
29				455.50	454.60	457.50	455.20	453.00	452.10	452.50		
30				455.50		457.60	455.30	452.10	452.40	452.50		
31							455.80	453.10		452.70		

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—BIRCHDALE, MINN.—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1					454.40	452.80	452.00	452.50	451.00	451.60		
2					454.20	454.00	451.90	452.70	450.90	451.30		
3					454.90	454.50	451.80	452.70	450.80	451.10		
4					454.50	454.70	451.70	452.70	450.60	451.00		
5					454.30	454.70	451.50	452.60	450.70	451.30		
6					454.00	454.50	451.70	452.60	451.10	451.40		
7					452.90	454.20	452.40	452.20	451.20	451.70		
8					452.80	454.20	452.60	452.30	451.10	451.60		
9					452.60	454.20	452.70	452.30	451.30	451.20		
10					452.60	454.10	452.50	452.20	452.00	451.00		
11					452.80	454.10	452.30	452.10	452.00	450.90		
12					452.70		452.70	452.00	452.00	450.90		
13					452.70		453.00	451.30	452.60	450.90		
14					452.70		453.30	451.30	452.70	450.80		
15					452.90		453.30	451.00	452.90	450.80		
16					453.00		453.40	451.00	453.00	450.80		
17					453.40		453.00	451.00	453.10	450.50		
18					453.70		452.50	450.90	453.10	450.80		
19					453.60		452.70	451.00	452.50	451.00		
20					453.60		452.70	451.00	452.50	451.10		
21					453.70		452.60	450.90	452.70	451.10		
22					453.60		452.70	450.60	452.50	451.20		
23					453.50		452.60	450.90	452.40	451.40		
24					453.50		452.50	450.80	452.30	450.60		
25					453.40		452.30	450.80	452.20	451.30		
26					453.30	451.80	452.50	450.70	451.50	451.70		
27					453.10	451.70	452.60	450.80	451.90	451.70		
28					453.10	451.60	452.70	450.70	452.00	451.80		
29						451.60	453.10	450.90	452.00	451.80		
30						451.80	453.50	451.50	451.90	451.00		
31							453.30	451.10		450.90		
1922												
1					455.10	453.80	453.10	452.20		451.90		
2					455.30	453.70	452.50	454.30		451.70		
3					455.40	453.70	452.10	454.30	452.50	452.10		
4					455.30	453.60	451.90	454.30	451.60	452.20		
5					455.30	452.70	451.70	454.30	450.50	452.20		
6					455.20	453.40	451.50	454.10	451.70	452.20		
7					455.10	453.60	453.00	451.50	452.30	452.10		
8					454.80	453.60	453.10	452.10	452.60	451.70		
9					454.80	453.70	452.90	452.30	452.60	451.70		
10					455.10	453.80	452.40	452.40	452.30	451.90		
11					455.60	453.60	452.70	452.50	451.70	452.10		
12					456.00	453.10	452.80	452.50	452.30	452.10		
13					456.20	453.40	452.90	452.40	452.30	452.00		
14					456.00	453.40	452.90	451.50	452.30	451.90		
15					455.60	453.40	453.00	452.20	452.20	451.60		
16					454.00	453.50	452.90	452.30	452.30	451.40		
17					454.90	453.60	452.30	452.40	452.10	451.90		
18					455.30	453.80	452.70	452.50	451.60	452.20		
19					455.40	453.80	452.80	452.50	451.70	452.20		
20					455.40	453.70	452.80	452.30	452.00	452.20		
21					455.20	453.70	452.80	451.60	452.00	452.10		
22					454.80	452.60	452.80	452.10	451.90	451.80		
23					454.70	452.50	452.40	452.30	451.90	451.40		
24					454.70	452.50	451.80	452.40	451.70	451.70		
25					454.50	452.10	452.60	452.60	451.40	452.00		
26					454.40	453.00	452.80	452.60	452.10	452.10		
27					454.30	453.10	452.80		452.30	452.10		
28					453.80	453.20	452.70		452.30	452.10		
29					453.10	453.50	452.60		452.20	451.70		
30					453.70	453.60			452.90	451.30		
31					453.90					451.80		

## WATER LEVELS—RAINY RIVER—BIRCHDALE, MINN.—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1					455-10	452-30	453-30	451-50	450-90	450-70		
2					454-90	452-10	452-30	451-70	450-90	451-00		
3					454-80	452-00	452-00	451-70	450-70	451-10		
4					454-40	452-00	452-00	451-70	450-00	451-20		
5					455-80	452-00	451-90	451-50	450-70	451-20		
6					455-50	451-90	451-90	451-30	450-90	451-20		
7					455-30	451-90	452-50	451-50	451-00	451-00		
8					455-20	451-90	452-50	451-70	451-20	450-70		
9					455-00	451-90	452-00	451-60	451-10	450-90		
10					454-70	451-90	452-10	451-50	450-90	451-00		
11					454-50	451-70	452-40	451-50	450-90	451-10		
12					454-10	451-80	452-50	451-40	451-00	451-10		
13					453-80	451-70	452-60	451-10	451-80	451-10		
14					453-70	451-70	452-60	451-40	451-10	450-90		
15					453-70	451-70	452-20	451-40	451-00	450-50		
16					453-70	451-70	452-20	451-50	450-90	450-80		
17					453-60	451-50	452-20	451-50	451-10	451-00		
18					453-50	451-50	452-20	451-50	451-10	450-40		
19					453-50	451-90	452-20	451-20	451-10	450-30		
20					453-30	452-00	452-10	451-00	451-20	450-30		
21					453-20	452-20	452-10	451-20	451-20	450-30		
22					457-40	453-20	452-20	452-00	451-50	451-30		
23					457-80	453-10	454-20	452-00	451-50	451-10		
24					458-00	453-00	454-70	452-00	451-40	450-80		
25					457-90	452-80	454-70	452-10	451-20	450-90		
26				457-70	452-70	454-60	452-10	451-00	451-20	450-30		
27				457-50	452-60	454-50	452-00	450-90	450-20	450-30		
28				457-20	452-60	454-10	452-00	450-90	450-50	450-30		
29				456-70	452-50	453-90	451-70	450-90	450-50	450-20		
30				456-40	452-50	453-80	451-60	450-90	450-20	450-20		
31					452-40		451-50	450-90		450-20		
1924												
1						450-80	451-00	450-40	451-20	451-40		
2						451-30	450-80	451-00	450-70	451-40		
3						451-30	450-90	451-00	450-70	451-50		
4						451-10	450-90	450-70	450-70	451-50		
5						451-00	450-90	450-20	450-60	451-30		
6						451-10	450-90	450-10	450-30	451-20		
7						451-20	450-90	450-00	450-10	451-00		
8						451-30	450-80	449-90	450-00	450-80		
9						451-30	450-60	450-30	450-30	450-70		
10						451-30	450-60	450-40	450-70	450-60		
11						450-70	450-90	450-40	450-70	450-50		
12						450-70	451-00	450-40	450-80	450-60		
13						450-90	451-00	450-30	450-90	450-70		
14						451-20	451-00	450-30	451-00	450-70		
15						451-30	451-00	450-30	450-90	450-70		
16						451-30	451-00	450-30	450-80	450-70		
17						451-20	451-10	450-30	450-70	450-70		
18						451-10	451-10	450-20	450-40	450-70		
19						451-10	451-40	450-20	450-30	450-60		
20						451-20	451-50	450-20	450-30	450-60		
21						451-20	451-80	450-10	450-40	450-50		
22						451-20	452-20	450-20	450-40	450-50		
23						451-20	452-20	450-30	450-60	450-90		
24						451-20	452-20	450-30	450-50	451-10		
25						451-10	452-10	450-40	450-50	451-30		
26						450-90	452-00	450-40	450-40	451-50		
27						450-90	451-90	450-40	450-40	451-50		
28						451-00	451-80	450-40	450-40	451-00		
29						451-00	451-30	450-60	450-30	451-00		
30						450-90	451-00	450-70	451-00	450-90		
31						450-90	450-50	450-50	450-50	450-90		

WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1											445.30	
2											444.90	
3											444.90	
4											444.80	
5												
6												
7												
8										445.10		
9										444.95		
10										445.00		
11										445.15		
12										445.25		
13										445.15		
14										445.15		
15										445.10		
16										445.05		
17										445.20		
18										445.25		
19										445.35		
20										445.50		
21										445.10		
22										444.90		
23										445.10		
24										445.00		
25										445.10		
26										445.15		
27										445.10		
28										445.60		
29										445.65		
30										445.55		
31										445.30		
1912												
1					446.25	446.80	446.40	447.80	447.30	448.70		
2					446.40	446.80	446.45	447.60	447.40	448.70		
3					446.30	447.40	446.80	447.55	447.45	448.90	448.40	
4					446.20	446.70	446.80	447.50	447.50	448.65	448.90	
5					446.40	446.80	446.60	447.10	447.65	448.75	448.60	
6					446.00	446.30	446.70	447.40	448.10	449.30	448.40	
7					446.90	446.90	446.65	447.40	447.90	448.60	448.50	
8					447.10	446.85	446.80	447.50	447.85	448.65	449.50	
9					447.00	446.45	447.00	447.65	448.00	448.90	448.30	
10					447.40	446.40	446.90	447.65	448.25	448.85	448.70	
11					447.30	447.00	446.95	447.60	448.10	448.65	448.50	
12					447.20	446.90	447.05	447.35	447.90	448.90	448.60	
13					447.00	446.70	447.05	447.65	447.80	448.80	448.60	
14					447.05	446.65	447.50	447.65	447.75	449.10	448.45	
15					447.20	446.90	447.00	447.40	448.05	448.70	448.35	
16					447.25	447.30	447.00	447.30	447.85	448.60	449.30	
17					447.25	447.05	447.55	447.25	447.90	448.60	448.40	
18					447.70	446.80	447.35	447.20	447.95	448.65	448.30	
19					447.05	446.85	447.05	447.30	447.80	448.90	448.55	
20					446.90	446.80	447.00	447.55	447.75	448.50	448.00	
21					446.85	446.85	446.90	447.60	447.70	448.90	448.65	
22					447.00	446.70	447.00	447.85	448.20	448.65	448.65	
23					447.00	446.65	447.20	447.30	448.90	448.10	449.05	
24					446.95	446.60	447.60	447.45	448.70	448.50	448.50	
25					447.00	446.80	447.40	447.35	449.50	448.50	448.60	
26					446.90	446.65	447.20	447.50	449.20	448.60	448.95	
27					446.20	446.50	447.40	447.35	448.90			
28					446.95	446.55	447.65	447.40	448.90			
29					446.50	446.50	447.45	447.35	448.90			
30					446.85	446.40	447.75	447.50	448.80			
31					447.00		447.75	447.40				

## REPORT OF ENGINEERS

## WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1				448-50	449-90	449-50	448-60			447-80	448-50	
2				448-70	449-55	449-50	448-75			447-80	448-00	
3				448-80	449-90	449-50	449-40			447-90	448-00	
4				448-85	449-80	449-50	448-45			448-00	448-00	
5				448-90	449-95	449-40	449-30			448-05	448-00	
6				448-95	450-00		449-35			448-10	448-10	
7				448-90	449-95	450-10	449-40			448-10	448-80	
8				448-90	450-00	449-95	449-80			447-40	448-30	
9				448-90	449-90	449-70	449-60			447-80	448-50	
10				449-35	449-90	449-60	449-30			448-40		
11				449-40	449-60	449-55	449-20			448-60		
12				449-45	449-50	449-40	449-80			448-90		
13				449-70	449-55	449-30	449-70			448-50		
14				449-95	449-45	449-30	449-95		448-25	448-60		
15				449-50	449-50	449-30	450-10		448-20	448-50		
16				449-45	449-50	449-10			448-30	448-40		
17				450-00	449-55	449-20	450-80		448-00	448-30		
18				450-05	450-00	449-20	450-80		447-60	448-50		
19				450-00	449-95	449-10	450-70		448-20	448-90		
20				449-90	450-00	449-10	450-50		449-30	448-80		
21				449-60	449-75	449-10	450-40		449-20	448-20		
22				449-55	449-70	449-10	450-30		447-80	448-50		
23				449-65	449-60	449-00	450-20		448-00	448-00		
24				449-80	449-60	448-95	450-00		448-10	448-70		
25				449-85	449-55	449-85	449-90		448-00	448-70		
26				449-95	449-40	448-80	449-80		447-95	448-50		
27				450-00	449-30	449-00			447-90	448-90		
28				449-95	449-00	449-00			447-90	448-90		
29				449-90	449-20	448-65			447-90	448-20		
30				449-75	449-50	448-65			447-90	448-20		
31					449-50					448-60		
1914												
1					448-80	449-70	449-50	449-30	448-50	448-60	449-10	449-10
2					449-10	449-50	449-50	449-00	448-80	448-60	449-20	449-35
3					449-40	449-50	449-40	449-00	448-80	448-60	449-30	449-30
4					449-50	449-50	449-30	449-30	448-70	448-50	450-00	449-40
5					449-70	449-50	449-20	449-50	448-70	448-50	450-00	449-45
6					449-90	449-20	449-50	449-50	448-80	448-60	448-80	449-45
7					450-00	449-00	449-70	449-80	448-50	448-70	450-40	449-10
8					449-90	449-10	449-10	449-80	448-70	448-80	449-00	449-15
9					449-70	450-00	449-20	449-20	448-70	448-90	448-80	449-20
10					449-60	450-30	449-20	449-20	448-60	448-95	449-10	449-20
11					449-50	450-90	449-20	449-30	448-70	449-00	449-20	449-25
12				448-20	449-50	451-00	449-40	449-00	448-70	449-20	449-00	449-25
13				448-00	449-50	451-00	449-50	449-00	448-70	449-20	449-40	449-40
14				448-00	449-50	450-60	450-50	449-00	448-90	449-50	449-60	448-90
15				448-20	449-30	450-20	450-80	448-80	448-80	449-10	449-70	449-40
16				448-00	448-80	450-00	450-90	448-80	448-70	449-10	449-20	449-20
17				448-00	449-00	449-80	450-40	449-00	448-70	449-20	449-40	449-20
18				448-30	448-80	449-60	450-30	449-00	448-70	449-20	449-40	449-20
19				448-50	449-00	449-80	450-30	449-10	448-80	449-10	449-30	449-30
20				448-30	449-60	449-60	449-90	449-10	448-80	449-00	449-50	449-40
21				448-70	450-20	449-60	449-70	449-10	449-40	449-10	449-50	449-40
22				448-30	450-50	449-40	449-00	449-00	449-50	449-10	449-40	448-90
23				448-30	450-70	449-60	449-50	448-90	449-40	449-80	449-10	449-30
24				448-40	450-20	449-70	449-20	448-90	449-30	449-80	449-30	449-20
25				448-50	450-00	449-60	449-20	449-00	449-90	449-70	449-40	448-90
26				448-50	450-00	449-30	449-00	449-00	449-80	449-60	449-50	448-90
27				448-70	449-80	449-60	449-00	448-80	448-50	449-55	449-50	448-70
28				448-50	449-60	449-50	449-00	448-80	448-40	449-60	449-40	448-60
29				448-50	450-30	449-60	449-00	448-70	448-40	449-40	449-25	448-95
30				448-50	450-00	449-50	449-50	448-70	448-50	449-60	449-00	448-70
31					450-00		449-40	448-50		449-60		448-85

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO—Continued  
RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1	448-85	449-10	448-95	449-15	449-00	449-10	453-10	449-90	448-60	448-40	448-60	448-50
2	449-35	449-10	449-00	449-05	449-00	449-10	452-40	449-80	448-40	448-20	448-20	448-60
3	449-20	449-20	449-10	448-95	449-10	449-05	451-95	449-65	448-60	448-20	447-90	448-65
4	449-00	449-25	449-15	448-90	449-05	448-70	451-95	449-60	448-60	448-55	448-35	448-70
5	449-15	449-30	449-20	448-85	449-40	449-30	451-15	449-40	448-50	448-75	448-90	448-75
6	449-30	449-35	449-25	449-00	449-10	449-20	450-95	449-60	448-30	449-10	448-25	448-70
7	449-20	449-25	449-25	449-00	449-90	449-40	451-10	449-50	448-10	449-50	448-00	448-60
8	449-15	448-85	449-15	449-00	449-80	449-10	450-65	449-40	448-60	449-40	450-00	448-75
9	449-15	449-00	449-10	449-15	449-50	449-40	450-60	449-20	448-70	448-70	448-20	448-80
10	449-10	449-20	449-10	449-15	449-20	449-35	450-50	449-30	448-80	448-55	448-75	448-85
11	449-10	449-25	449-10	449-20	449-95	449-40	450-55	449-20	448-50	448-50	448-80	448-80
12	449-10	449-25	449-20	448-95	449-95	450-60	450-30	449-20	448-30	448-55	448-80	448-80
13	449-20	449-25	449-15	448-80	449-95	450-75	450-40	449-40	448-30	448-45	448-40	448-45
14	449-45	449-20	449-15	448-80	449-90	450-70	450-45	449-30	448-60	448-35	448-80	448-60
15	449-40	449-00	448-85	449-10	450-00	451-75	450-30	449-20	448-00	448-35	448-00	448-50
16	449-45	449-15	449-00	449-05	450-00	.....	450-55	449-00	448-60	448-30	447-90	448-85
17	449-40	449-25	449-10	449-00	450-20	452-00	450-30	448-90	448-15	448-30	447-80	448-95
18	449-20	449-25	449-15	449-10	450-60	452-25	450-10	448-80	448-65	448-20	448-60	448-95
19	449-30	449-25	449-20	449-00	450-75	452-25	450-10	448-85	448-15	448-05	449-00	448-80
20	449-40	449-30	449-25	448-75	450-75	451-70	450-15	448-90	449-20	448-10	448-50	448-55
21	449-40	449-30	449-20	449-00	450-75	451-60	450-10	448-90	448-45	448-15	449-10	448-70
22	449-35	449-05	448-90	449-05	450-75	451-10	450-00	448-80	448-10	448-20	448-20	448-85
23	449-30	449-15	449-10	449-05	450-20	450-85	450-05	448-70	448-60	448-30	448-30	448-80
24	449-20	449-20	449-15	449-05	450-00	450-60	449-50	448-80	448-60	448-40	448-50	448-80
25	449-20	449-25	449-20	448-80	450-00	450-60	449-90	448-90	448-60	449-00	448-65	448-80
26	449-25	449-15	449-20	449-00	449-65	450-45	449-90	448-70	448-50	448-60	448-70	448-25
27	449-30	449-15	449-30	449-00	449-65	451-45	449-95	448-70	447-80	448-40	448-50	448-15
28	449-30	449-10	448-85	449-80	449-60	.....	449-85	448-50	448-10	448-50	448-35	448-45
29	449-30	.....	448-90	449-60	449-00	.....	449-90	448-60	448-30	448-50	448-20	448-85
30	449-35	.....	449-20	449-30	449-00	453-00	449-90	448-60	448-35	448-00	448-30	448-85
31	449-25	.....	449-25	.....	449-00	.....	449-80	448-70	.....	448-60	.....	448-95

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	448-95	448-80	449-05	449-40	453-75	455-80	455-80	451-80	450-80	449-60	449-20	.....
2	448-85	448-90	449-10	449-20	453-50	455-85	455-80	451-65	450-75	449-90	449-40	.....
3	448-60	448-85	449-15	449-15	453-50	456-00	455-70	451-60	450-25	449-60	449-35	.....
4	448-70	449-00	449-15	449-35	453-45	456-15	455-35	451-60	450-30	449-90	449-30	.....
5	448-80	449-05	449-10	449-45	453-20	456-00	455-10	451-60	450-20	449-80	449-20	.....
6	448-80	448-90	449-00	449-60	453-20	455-90	454-90	451-60	450-25	449-50	449-00	.....
7	448-85	448-75	448-90	449-60	453-20	455-85	454-50	451-60	450-30	449-60	449-30	.....
8	448-85	448-85	449-00	449-50	453-35	455-80	454-40	451-55	450-30	449-70	449-20	.....
9	448-85	449-00	449-10	449-25	453-00	455-70	454-35	451-05	450-25	449-60	449-15	.....
10	448-70	449-05	449-15	448-65	453-75	455-50	454-30	451-95	450-25	449-55	449-15	.....
11	448-80	449-05	449-10	449-05	453-35	455-40	454-30	451-85	450-35	449-80	449-55	.....
12	449-00	449-05	449-00	449-15	453-10	455-35	454-00	451-60	450-35	449-45	449-20	.....
13	449-00	449-00	448-80	449-35	453-00	455-40	453-95	451-30	450-30	449-50	449-20	.....
14	448-95	448-80	448-90	449-95	453-20	455-40	453-80	451-30	450-75	449-60	449-50	.....
15	448-85	448-95	448-95	451-00	453-60	455-40	453-75	451-15	450-45	449-60	449-35	.....
16	448-85	449-10	449-15	451-65	453-90	455-40	453-60	451-15	450-60	450-00	449-40	.....
17	448-90	449-20	449-15	452-20	454-00	455-40	453-60	451-15	450-50	449-00	449-60	.....
18	448-65	449-15	449-10	452-70	454-25	455-20	453-40	451-15	450-10	449-50	449-35	.....
19	448-60	449-30	449-00	454-10	454-60	455-10	453-50	451-20	450-30	449-80	449-40	.....
20	448-60	449-20	448-80	454-90	454-80	455-00	453-20	451-20	450-65	449-00	449-40	.....
21	448-65	448-90	448-85	455-15	454-85	454-95	453-10	451-20	450-65	449-35	449-40	.....
22	448-85	449-00	449-00	454-85	454-95	454-90	452-90	451-25	450-00	449-10	449-15	.....
23	448-85	449-05	449-10	454-60	455-00	454-90	452-90	451-50	450-10	449-10	449-00	.....
24	448-70	449-10	449-15	454-30	455-10	455-00	452-80	451-40	450-25	448-80	448-70	.....
25	448-80	449-15	449-15	454-40	454-85	455-20	452-70	451-40	450-00	450-25	448-45	.....
26	448-95	449-15	448-95	454-50	455-20	455-70	452-50	451-00	450-10	450-20	448-50	.....
27	448-85	449-00	448-85	454-40	455-30	455-75	452-55	451-00	450-10	450-15	448-55	.....
28	448-85	448-90	449-00	454-10	455-50	455-60	452-40	450-75	450-20	449-10	449-00	.....
29	448-90	449-00	449-15	454-10	455-65	455-40	452-40	450-80	450-25	.....	449-10	.....
30	448-85	.....	449-40	454-00	455-50	455-60	452-40	450-75	449-60	.....	449-15	.....
31	448-80	.....	449-30	.....	455-45	.....	452-25	450-70	.....	.....	.....	.....

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.



## WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1					448-90	448-05	448-15	448-65	448-20	447-20	447-80	.....
2					448-90	448-40	448-55	448-20	448-00	447-80	448-00	.....
3					448-90	448-05	448-65	447-90	447-90	447-55	447-70	.....
4					448-85	447-80	448-65	448-40	447-45	447-50	447-60	.....
5					448-80	447-80	448-40	448-50	448-75	447-70	447-55	.....
6					448-70	447-80	447-90	447-90	447-80	448-60	447-60	.....
7					448-60	447-95	447-95	448-00	447-80	448-80	447-40	.....
8					448-65	447-90	448-40	448-40	448-20	447-80	447-40	.....
9					448-70	447-85	448-10	448-30	448-00	447-50	447-45	.....
10					448-75	447-85	448-00	448-20	448-00	446-90	447-50	.....
11					448-70	447-45	448-40	448-10	447-80	449-00	447-45	.....
12					448-60	447-90	448-25	448-00	447-70	448-50	447-50	.....
13					448-60	447-95	448-25	447-90	447-80	.....	447-90	.....
14					448-45	448-10	448-30	447-70	447-60	.....	447-60	.....
15					448-50	447-35	448-15	448-00	447-70	447-80	447-50	.....
16					448-45	447-40	448-05	448-05	447-70	447-85	447-45	.....
17					448-60	447-35	448-10	447-95	447-70	447-40	447-50	.....
18					448-50	447-65	448-00	448-05	447-85	449-50	447-40	.....
19					448-45	447-65	448-30	448-30	447-90	447-40	447-30	.....
20					448-40	448-30	448-15	448-05	447-80	448-30	447-25	.....
21					448-35	448-00	447-95	447-75	447-70	447-50	448-30	.....
22					448-40	447-80	448-30	447-95	447-60	449-00	447-60	.....
23					448-45	447-80	447-75	449-90	447-60	446-90	447-60	.....
24					448-30	447-90	447-95	448-35	446-90	447-30	447-65	.....
25					448-25	448-00	448-15	447-90	447-80	447-25	447-70	.....
26					448-20	448-00	448-10	447-70	448-30	447-80	447-80	.....
27					448-15	448-05	448-00	448-50	447-60	447-60	447-85	.....
28					447-00	448-15	448-10	448-20	447-80	447-65	447-85	.....
29					448-30	447-90	448-35	447-90	448-35	449-20	447-90	.....
30					448-30	447-95	448-05	447-70	447-70	448-05	447-90	.....
31					448-20	.....	448-10	447-70	.....	447-95	.....	.....
1918												
1				447-35	447-50	448-40	447-35	447-70	447-90	447-55	447-45	.....
2				447-45	447-70	448-70	447-40	447-65	447-70	447-45	447-50	.....
3				447-20	447-80	449-05	447-20	447-70	447-90	447-40	447-50	.....
4				447-00	447-50	449-15	447-70	447-85	447-65	447-40	446-80	.....
5				446-85	447-60	447-80	448-20	447-65	447-70	447-70	446-90	.....
6				446-75	447-60	448-80	447-50	447-70	447-90	447-70	447-70	.....
7				446-90	447-40	449-05	447-60	447-70	447-65	447-40	446-80	.....
8				446-95	447-60	449-00	447-30	447-70	448-50	447-43	447-60	.....
9				446-90	448-30	449-10	447-70	447-40	447-70	447-70	448-10	.....
10				446-95	447-90	448-95	447-70	448-40	447-40	447-65	447-60	.....
11				446-90	447-60	448-70	447-55	447-80	447-85	447-50	447-20	.....
12				446-80	447-80	448-75	447-60	447-70	447-80	448-70	447-80	.....
13				446-85	448-10	448-75	447-60	448-00	447-65	448-00	447-60	.....
14				446-85	447-15	448-65	447-60	448-10	447-90	448-30	447-60	.....
15				446-85	447-15	447-80	447-70	447-90	448-10	448-50	447-60	.....
16				446-80	447-10	447-75	447-60	447-85	448-00	448-30	447-70	.....
17				446-85	447-45	447-55	447-60	447-65	447-80	447-65	448-20	.....
18				447-05	447-10	447-55	447-55	447-70	447-65	447-10	448-55	.....
19				447-00	448-00	447-15	447-60	447-50	447-80	447-60	448-20	.....
20				447-05	447-20	448-60	447-60	447-80	447-60	448-10	448-00	.....
21				447-50	446-75	448-00	447-70	447-90	447-45	446-70	448-00	.....
22				447-45	447-60	447-45	447-70	447-60	447-70	447-70	447-80	.....
23				447-00	447-50	447-60	447-65	447-70	447-55	447-40	.....	.....
24				446-90	447-25	447-50	448-20	447-90	447-60	448-10	.....	.....
25				447-10	447-50	447-30	447-65	448-30	447-65	447-70	.....	.....
26				447-10	447-95	447-15	447-70	447-60	446-60	447-65	.....	.....
27				447-15	447-70	447-70	447-70	447-60	448-00	447-40	.....	.....
28			447-25	447-15	447-75	447-90	448-30	448-20	448-10	447-60	.....	.....
29			447-35	447-20	447-65	447-65	447-75	447-70	447-85	447-70	.....	.....
30			447-40	447-00	447-70	447-80	447-70	448-00	447-70	447-40	.....	.....
31			447-55	.....	447-65	.....	447-65	447-85	.....	447-40	.....	.....

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1.					448-25	448-10		449-20	448-00	447-80	447-70	
2.					448-00	447-95	450-60	449-05	448-00	448-40	447-70	
3.				448-00	447-85	447-85	451-50	449-10	448-40	448-60	447-75	
4.				447-80	448-40	448-05	454-20	448-80	448-40	448-30	447-70	
5.				447-80	448-05	448-25	454-80	449-00	448-30	448-30	447-70	
6.				447-90	448-05	448-55	463-90	449-30	448-30	448-35	447-80	
7.				448-00	448-25	448-70	452-80	449-20	448-25	447-90	448-00	
8.				447-95	448-30	448-90	452-40	449-20	448-25	447-80		
9.				448-15	448-40	448-45	451-90	449-00	448-40	448-90		
10.				448-15	448-40	448-10	450-80	448-60	448-60	448-20		
11.				448-15	448-40	448-30	450-80	448-70	448-20	448-00		
12.				448-05	448-00	448-50	450-80	448-65	448-15	447-80		
13.				448-00	448-50	448-60	450-60	449-30	448-40	447-80		
14.				448-10	448-80	448-40	450-75	449-30	448-30	448-00		
15.				448-15	448-80	448-45	450-40	449-50	448-40	448-30		
16.				448-35	448-70	448-10	450-25	450-00	448-25	448-10		
17.				448-25	447-70	448-60	449-75	449-80	448-30	447-95		
18.				447-90	447-80	448-65	449-90	449-40	448-35	448-00		
19.				448-20	447-80	448-60	449-90	449-40	448-80	447-95		
20.				448-05	447-75	448-50	449-90	449-70	448-40	447-75		
21.				448-00	447-75	448-30	450-10	449-60	448-40	447-85		
22.				448-25	447-75	448-25	449-90	449-30	448-40	447-75		
23.				448-45	447-65	448-60	450-30	449-30	448-80	448-00		
24.				448-35	447-85	448-80	449-70	449-40	449-70	448-20		
25.				448-25	447-90	448-30	449-50	449-25	448-40	448-10		
26.				448-20	447-75	448-45	449-80	449-10	448-10	447-80		
27.				448-25	447-85	449-10	449-80	449-00	448-40	447-60		
28.				448-00	447-85	448-95	449-25	448-80	448-30	447-40		
29.				447-85	447-80	448-70	449-25	449-20	448-10	447-35		
30.				448-25	447-50	448-30	449-40	449-00	447-90	447-70		
31.					447-50		449-40	448-70		447-75		
1920												
1.					448-80	448-45	450-50	449-10	447-40	446-95		
2.					448-70	449-40	450-70	448-40	447-40	446-70		
3.					448-00	449-60	450-30	447-90	447-50	446-95		
4.					448-20	450-00	450-30	448-20	447-45	446-95		
5.					448-20	450-00	450-30	447-70	447-35	446-70		
6.					448-30	449-60	450-50	447-85	447-35	446-70		
7.					448-30	449-50	450-25	447-70	447-40	447-10		
8.					448-10	449-50	449-65	447-60	447-30	447-00		
9.					448-10	449-70	449-20	447-50	447-35	446-90		
10.					447-70	449-80	448-80	447-60	447-30	446-90		
11.					447-90	449-70	448-70	447-70	447-20	446-50		
12.				448-45	448-05	449-70	448-65	447-85	447-20	446-90		
13.				448-50	448-10	449-70	448-75	447-65	446-60	447-00		
14.				448-60	447-95	449-20	449-40	447-70	447-00	446-90		
15.				448-40	447-80	449-15	449-20	448-00	447-80	446-90		
16.				448-20	447-70	449-20	449-05	447-45	447-20	446-90		
17.				448-16	447-45	449-05	449-30	447-40	447-20	446-95		
18.				448-15	447-65	448-95	448-90	447-15	447-10	446-55		
19.				448-00	448-00	448-80	448-65	447-55	447-00	446-60		
20.				448-00	447-95	448-50	448-80	447-80	446-70	446-95		
21.				448-40	447-75	448-60	448-45	447-60	446-75	446-00		
22.				448-65	448-00	448-50	448-30	447-20	447-00	446-60		
23.				448-90		448-60	448-40	447-10	447-10	446-35		
24.				449-00		448-05	448-35	447-20	446-80	446-95		
25.				449-15		448-70	448-40	447-20	446-60	446-75		
26.				449-05		448-95	448-25	447-20	447-00	447-40		
27.				449-20		449-25	448-25	447-20	447-00	447-40		
28.				449-20		449-95	448-50	447-40	447-70	447-40		
29.				449-00		450-30	448-55	447-20	447-40	446-80		
30.				449-00	448-30	450-45	448-80	447-20	447-00	447-80		
31.					448-20		449-10	447-35		447-30		

## WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

(Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1					448.20		446.75	446.95	446.25			
2					447.45		446.50	447.00	446.60			
3					447.70		446.90	446.95	446.20			
4					447.70		446.80	447.75	446.40			
5					447.50	447.90	446.80	447.10	446.80			
6					447.40	447.60	446.95	448.60	446.70			
7					447.30	447.60	447.00	447.20	446.45			
8					447.35	447.60	447.00	446.80	446.40			
9					447.10	447.60	446.80	446.80	446.65			
10					447.15	448.10	447.10	446.90	446.60			
11					447.25	447.65	447.80	446.65	446.50			
12					447.45	448.00	447.10	446.80	446.70			
13					448.10	447.55	447.25	447.10	446.80			
14					447.95	447.20	447.40	446.75	446.95			
15					447.65	446.95	447.25	446.70	447.00			
16					447.50	447.10	447.20	446.50	446.90			
17					447.65	447.40	447.25	447.00	447.60			
18					447.45	447.20	447.25	446.45	447.10			
19					447.40		447.05	447.25	446.25			
20					447.00		446.95	446.60	446.70			
21					447.60		446.70	446.35	447.35			
22					447.50		447.30	446.00	447.15			
23					447.60		446.90	446.60	446.95			
24					447.60		447.00	446.60	447.20			
25					447.35		446.75	446.45	446.75			
26					447.15	446.80	446.80	446.60	446.70			
27					447.15	446.85	447.10	448.55	447.80			
28					447.30	446.85	447.00	446.55	446.95			
29						446.70	447.10	446.80	446.70			
30						446.75	447.75	446.55	446.80			
31							447.50	446.30				
1922												
1						448.00	447.60					
2						447.90	447.60					
3						447.85	446.95					
4						447.70	447.40					
5						447.65	447.40					
6						447.70	447.65					
7					448.40	448.25	447.40					
8					448.00	447.80	447.60					
9					448.10	447.85	447.60					
10					448.85	448.25	447.60					
11					448.30	447.70	447.60					
12					449.00	447.65	447.60					
13					449.40	447.70	446.95					
14					449.40	448.25	447.60					
15					448.90	447.80	447.25					
16					448.10	447.80	447.30					
17					448.45	447.85	447.40					
18					449.20	447.60	447.60					
19					449.10	447.70	447.75					
20					449.00	447.75	447.35					
21					448.80	447.90	446.90					
22					448.30	447.90	447.30					
23					448.60	447.90	447.60					
24					448.60	447.85	447.45					
25					448.45	447.95	446.95					
26					448.25	447.80	447.65					
27					448.25	447.80	447.65					
28					448.45	447.80	447.60					
29					447.95	447.90	447.60					
30					448.10	447.85						
31					448.00							

NOTE.—No records obtained on Boucherville gauge for the period July 30, 1922 to May 9, 1924, inclusive.

WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1						446-75	445-85	445-30	445-50			
2						446-80	445-75					
3						446-70	445-75	445-30	445-40			
4						446-60	445-65	445-55	445-25			
5						446-10	445-45	445-55	445-30	445-40		
6							446-10	445-55	445-15			
7							445-80	445-35	445-60			
8							445-45	445-40	445-25			
9							445-60	445-40	445-30			
10					445-90	445-75	445-50	445-45				
11					445-80	445-80	445-75	445-50				
12					446-40	445-75	446-10	445-50				
13					446-45	445-80	445-45	445-30		445-40		
14					446-05	445-90	445-50	445-45		446-35		
15					446-00	445-95	445-40	445-65		446-50		
16					446-00	445-80	445-60	445-40		446-30		
17					446-55	445-95	445-35			446-10		
18					446-60	445-45	445-20			445-80		
19					446-10	445-80				445-65		
20					446-45	446-15	445-15			445-40		
21					446-05	446-25	445-80	445-15	445-30	445-25		
22					446-10	446-30	445-45	445-25		444-90		
23					446-45	446-35	445-45	445-30		444-80		
24					446-35	446-45	445-50	445-20		444-55		
25					446-10	446-55	445-35	445-25	445-10	444-70		
26					446-10	446-15	445-45	445-80		444-60		
27					446-15	446-00	445-45	445-15	445-55	444-50		
28					446-05	446-00	445-30	445-15	445-50	444-45		
29					446-00	446-35	445-65			444-50		
30					445-95	445-80	445-40	445-65		444-40		
31					445-90		445-35	445-70		446-10		
1925												
1					445-32	445-50	447-80			447-25		
2					445-32	445-70	447-30	447-75		447-40		
3					445-31	446-10	447-70	447-60		448-00		
4					445-26	446-05	447-70	447-60		448-50		
5					445-24	446-40	447-60	447-70		448-50		
6					445-20	446-90	447-30	447-90	447-65	448-50		
7				445-25	445-16	447-30	447-50	447-90	447-60	448-00		
8				444-85	445-14	447-20	447-40	447-95	447-70	447-90		
9				444-85	445-14	448-90	447-40	448-30	447-60	448-00		
10				444-90	445-14	448-40	447-30	447-80	447-45	447-30		
11				444-50	445-90	448-20	447-10	447-65	447-35	447-90		
12				444-50	445-95	448-20	446-95	447-80	447-65	447-45		
13				444-75	445-85	448-20	446-85	447-90	447-30	447-50		
14				444-70	445-60	448-10	446-30	447-80	447-00	447-55		
15				444-60	445-80	447-40	446-50	447-55	447-00	447-70		
16				444-65	445-95	447-30	447-40	447-80	447-70	448-00		
17				444-50	445-60	447-70	447-00	447-80	447-50	447-55		
18				444-10	445-35	447-30	446-90	448-20	447-00	447-75		
19				444-30	445-75	447-50	447-10	448-15	447-00	447-60		
20				444-10	445-75	447-15	447-10	447-85	448-00	447-50		
21				444-55	445-35	447-15	447-20	447-45	447-40	447-50		
22				444-70	445-10	447-00	447-10	447-85	447-70	447-25		
23				444-90	445-70	446-90	447-10	447-40	447-30	447-50		
24				445-10	445-55	447-60	447-10	447-50	447-00	447-55		
25				445-16	445-35	447-70	447-00	448-00	446-95	447-30		
26				445-19	445-35	447-40		447-60	447-30	447-60		
27				445-16	445-45	447-70		447-40	447-30	448-00		
28				445-17	445-45	447-65		447-45	447-05	447-70		
29				445-25	445-45	447-30		447-80	446-90	447-90		
30				445-29	445-55	447-70			447-10	446-90		
31										447-30		

## WATER LEVELS—RAINY RIVER—BOUCHERVILLE, ONTARIO—Concluded

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.
1926												
1		447.65	447.90	448.60	448.15	449.25	448.95	448.50	448.60	448.90	450.60	451.70
2		447.75	447.90	448.45	448.30	448.70	448.80	448.45	448.40	449.10	450.40	451.85
3		447.80	447.95	448.40	448.20	448.50	448.60	448.45	448.35	449.15	450.65	451.90
4		447.85	447.95	448.25	448.25	448.45	448.95	448.45	448.85	451.30	450.40	451.80
5		447.80	447.85	448.10	447.90	448.65	448.75	448.40	448.75	450.20	450.50	451.50
6		447.75	447.85	448.20	447.65	449.10	448.70	448.70	448.50	450.40	450.70	451.60
7		447.70	447.90	448.30	447.85	449.00	448.65	448.35	448.60	450.40	450.60	451.60
8		447.80	447.80	448.30	447.85	448.40	448.95	448.40	449.75	450.20	450.40	451.65
9		447.80	447.75	448.40	447.85	448.15	449.30	448.45	449.35	450.50	450.20	451.65
10		447.85	447.75	448.50	447.90	448.50	449.40	448.50	449.00	450.20	450.00	451.60
11		447.85	447.80	448.30	448.40	448.40	449.35	448.35	449.00	450.30	449.70	451.65
12		447.80	447.80	448.10	448.50	448.40	449.50	448.35	448.90	450.10	449.20	451.60
13		447.85	447.85	448.10	449.00	448.40	449.60	448.60	448.40	450.00	449.20	451.50
14		447.75	447.80	448.25	448.10	448.10	449.40	448.50	448.50	449.90	450.60	451.50
15		447.70	447.85	448.40	447.95	448.05	449.30	448.60	448.50	450.00	450.30	451.50
16		447.80	447.85	448.60	448.00	448.00	449.25	448.35	448.00	450.10	450.50	451.55
17		447.80	447.90	448.35	447.90	448.80	449.25	448.30	449.15	449.95	450.80	451.55
18		447.80	447.90	448.35	448.00	448.35	449.00	448.30	448.90	449.65	451.70	451.50
19		447.80	448.00	448.30	447.80	448.25	448.95	448.15	448.80	449.80	453.50	451.55
20		447.80	448.10	448.35	447.55	448.35	449.10	448.00	448.45	450.00	451.90	451.45
21		447.75	448.20	448.85	447.85	449.95	449.40	448.50	449.40	450.10	452.35	451.45
22		447.80	448.20	448.25	447.60	450.75	449.50	448.75	448.75	450.50	452.40	451.50
23		447.85	448.50	448.20	448.00	450.70	448.95	448.80	448.60	450.80	452.40	451.50
24		447.80	449.00	448.45	447.35	450.60	448.90	448.55	449.30	450.60	452.40	451.45
25		447.90	449.10	448.25	448.20	450.50	448.85	448.75	449.80	450.50	452.30	451.20
26		447.85	448.90	448.15	448.30	450.10	448.65	448.60	449.70	450.60	452.10	451.10
27		447.90	448.80	448.50	448.85	449.60	448.60	448.70	449.25	450.85	452.00	451.00
28		449.10	448.40	448.70	449.50	449.50	448.70	449.00	449.35	450.90	452.10	450.80
29		448.60	448.20	448.70	449.30	449.30	448.75	448.65	449.25	450.70	451.80	450.80
30		448.80	447.95	448.70	449.00	449.00	448.75	448.40	449.30	450.10	451.70	450.85
31		448.80	.....	.....	449.25	.....	448.60	448.35	.....	450.50	.....	450.85
1927												
1	450.85	450.00	449.90	449.70	454.80	456.50	455.70	452.20	449.20	448.85	449.25	449.10
2	450.95	450.00	449.95	449.90	454.60	456.10	456.00	452.10	449.80	448.85	449.10	449.05
3	450.80	450.05	449.95	449.85	455.40	456.10	455.90	452.15	449.45	449.15	449.15	449.15
4	450.70	450.10	450.00	449.80	455.65	456.20	455.80	451.75	449.35	449.20	449.80	449.05
5	450.75	450.15	450.20	450.30	456.10	456.95	455.40	451.50	449.45	448.90	449.95	448.95
6	450.55	450.10	450.15	450.10	456.12	455.80	455.35	451.15	449.90	449.95	447.30	448.90
7	450.55	449.95	450.10	450.20	456.05	455.80	455.10	451.60	449.30	448.95	448.60	448.85
8	450.40	449.95	450.25	450.30	455.70	455.70	455.10	451.30	449.30	448.95	448.85	448.90
9	450.22	449.90	450.60	450.60	456.10	454.73	455.10	451.20	449.35	448.85	448.90	448.90
10	450.22	449.95	450.80	450.50	456.90	455.70	454.80	451.10	449.20	448.40	448.70	448.85
11	450.15	449.90	450.90	450.70	456.90	455.60	454.60	451.90	448.90	448.10	450.00	448.90
12	450.10	449.80	451.00	451.45	456.25	455.40	453.65	451.00	448.10	449.80	449.30	448.85
13	450.05	449.80	451.00	451.70	457.10	455.35	454.75	450.95	448.90	449.30	449.15	449.00
14	450.05	449.80	450.80	452.30	457.10	455.20	454.70	450.60	449.15	448.85	449.10	449.05
15	450.00	449.75	450.90	453.10	456.70	455.10	454.75	450.70	449.20	449.25	449.30	449.05
16	450.00	449.80	451.10	454.65	456.60	455.00	454.50	450.55	449.20	449.15	449.00	449.00
17	449.90	449.80	450.80	456.25	456.50	454.90	454.80	450.60	449.50	448.65	448.80	448.95
18	449.90	449.70	450.60	456.40	456.25	454.80	454.20	450.50	449.80	448.95	449.00	448.95
19	450.00	449.70	450.50	457.00	456.10	454.70	454.60	450.40	449.50	449.00	449.20	448.80
20	450.20	449.65	450.35	458.00	455.95	455.10	454.40	450.25	449.40	449.70	449.25	448.85
21	450.15	449.60	450.30	456.20	456.00	455.10	454.45	450.30	449.30	449.10	449.30	448.90
22	450.10	449.50	450.20	456.20	456.95	456.50	454.35	450.20	449.10	449.20	449.45	448.95
23	450.15	449.80	450.30	456.90	456.85	456.50	454.35	450.30	448.90	449.20	449.35	448.90
24	450.00	449.85	450.25	456.50	456.15	456.50	454.10	450.35	449.00	448.60	449.40	448.85
25	450.05	449.90	450.30	456.00	456.70	456.30	454.10	450.20	449.16	449.00	449.45	448.70
26	450.10	449.90	450.35	454.90	456.80	456.20	454.05	450.20	449.80	449.10	449.55	448.60
27	450.15	.....	450.30	454.75	456.90	456.10	453.90	450.50	449.75	449.20	449.50	448.65
28	450.05	.....	350.30	454.65	456.90	455.90	453.60	450.50	449.90	449.05	448.95	448.95
29	450.10	.....	450.90	454.60	456.90	455.70	452.05	450.40	449.90	448.60	449.10	449.15
30	450.05	.....	450.30	454.70	456.50	455.55	452.50	450.40	449.90	448.80	449.15	449.20
31	449.90	.....	450.05	.....	456.40	.....	452.90	450.40	.....	448.70	.....	449.15

WATER LEVELS—RAINY RIVER—PINEWOOD, ONTARIO

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1								449.00	448.50	448.30	449.60	448.80
2								449.00	448.40	448.30	449.60	448.80
3								448.70	448.40	448.30	449.70	448.80
4								449.10	448.30	448.60	449.60	448.80
5								448.90	448.30	448.60	449.70	448.90
6								448.70	448.10	448.90	449.00	448.90
7								448.70	448.10	448.90	450.10	448.90
8								448.70	448.20	449.00	448.70	448.90
9								448.70	448.10	449.00	448.60	448.90
10								448.60	448.20	449.10	448.70	448.90
11								448.60	448.20	449.20	448.70	448.90
12								448.50	448.20	449.20	448.70	448.90
13							448.80	449.00	448.20	449.10	448.60	448.90
14							448.80	448.70	448.20	449.30	448.50	448.90
15							449.80	448.50	448.10	449.00	448.60	448.90
16							449.90	448.60	448.20	448.90	448.70	448.90
17							450.20	448.60	448.20	449.00	448.90	448.90
18							450.50	448.40	448.30	449.00	448.80	448.90
19							450.40	448.40	448.30	449.00	448.80	448.90
20							450.50	448.40	448.20	449.00	448.70	448.80
21							449.80	448.40	448.20	449.20	448.70	448.70
22							449.80	448.40	448.30	448.90	448.70	448.70
23							449.76	448.60	448.30	448.90	448.70	448.70
24							449.74	448.20	448.30	449.00	448.80	448.60
25							449.70	448.20	448.40	449.40	448.90	448.60
26							449.50	448.40	448.40	449.40	448.80	448.60
27							449.60	448.30	448.40	449.50	448.80	448.50
28							449.50	448.20	448.50	449.50	448.70	448.50
29							449.20	448.40	448.50	449.60	448.70	448.40
30							449.10	448.50	448.40	449.60	448.70	448.40
31							449.10	448.50	.....	449.60	.....	448.40
1915												
1	448.40	448.50	448.40	448.80	449.10	448.90	451.90	449.50	448.40	448.00	448.40	447.95
2	448.40	448.50	448.50	448.80	449.10	448.80	451.70	449.25	448.15	448.20	448.00	448.15
3	448.40	448.50	448.50	448.90	449.10	448.70	451.35	449.30	448.20	448.35	448.60	448.20
4	448.40	448.50	448.50	449.00	449.10	448.60	451.40	449.30	448.30	448.60	448.05	448.25
5	448.50	448.50	448.50	449.00	449.15	448.70	450.70	449.20	448.25	447.90	448.00	448.30
6	448.50	448.50	448.50	448.90	449.20	449.10	450.50	449.25	448.15	449.10	448.10	448.20
7	448.50	448.60	448.50	448.90	449.25	449.15	450.60	449.20	448.00	449.20	447.90	448.10
8	448.60	448.60	448.50	448.90	449.25	449.20	450.50	449.20	448.30	448.30	449.50	448.20
9	448.60	448.60	448.60	448.90	449.30	448.90	450.25	449.10	448.30	447.50	449.10	448.25
10	448.60	448.60	448.60	448.80	449.30	449.10	450.10	449.10	448.60	448.30	448.90	448.15
11	448.60	448.60	448.60	448.80	449.45	449.25	450.15	449.05	448.30	448.10	449.40	448.20
12	448.60	448.60	448.70	448.70	449.55	449.45	450.00	449.00	448.15	448.00	449.40	448.20
13	448.70	448.60	448.70	448.70	449.55	449.75	450.05	448.95	448.15	448.30	449.00	448.30
14	448.70	448.50	448.70	448.80	449.50	450.30	450.05	449.00	448.40	448.05	448.40	448.30
15	448.70	448.50	448.70	448.70	449.40	450.80	450.05	448.90	447.75	448.10	448.20	448.25
16	448.70	448.50	448.70	448.70	449.60	451.20	450.10	448.85	448.25	448.10	448.10	448.25
17	448.70	448.50	448.70	448.70	449.70	451.15	450.00	448.70	448.05	448.10	448.20	448.20
18	448.70	448.50	448.70	448.70	449.75	451.50	449.70	448.75	448.30	447.95	448.60	448.20
19	448.60	448.50	448.60	448.80	450.20	451.35	449.75	448.75	448.40	448.00	448.30	448.25
20	448.60	448.50	448.70	448.80	450.15	450.85	449.75	448.60	448.90	447.90	448.20	448.15
21	448.60	448.50	448.70	448.80	450.15	450.90	449.70	448.65	448.20	448.20	448.20	448.25
22	448.60	448.50	448.70	448.80	449.90	450.50	449.70	448.60	447.90	447.95	448.20	448.35
23	448.60	448.50	448.70	448.80	449.80	450.40	449.75	449.35	448.40	447.90	448.15	448.40
24	448.50	448.50	448.70	448.80	449.60	450.10	449.70	448.65	448.00	448.00	448.20	448.30
25	448.50	448.50	448.80	448.90	449.40	450.15	449.65	448.75	448.70	448.60	448.25	448.25
26	448.50	448.50	448.80	448.90	449.30	450.20	449.60	448.45	448.20	448.30	448.30	448.15
27	448.50	448.50	448.80	448.95	449.20	450.90	449.65	448.40	447.80	448.00	448.35	448.00
28	448.50	448.50	448.80	449.20	449.20	451.25	449.55	449.05	447.90	448.20	448.20	448.10
29	448.50	.....	448.80	449.15	449.10	451.80	449.55	448.60	448.10	448.10	449.10	448.35
30	448.50	.....	448.80	449.10	449.10	452.10	449.55	448.45	448.10	447.80	448.00	448.40
31	448.50	.....	448.80	.....	449.00	.....	449.50	448.25	.....	448.35	.....	448.40

## WATER LEVELS—RAINY RIVER—PINEWOOD, ONTARIO—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	448.35	448.45	448.50	448.65	453.20	455.40	455.20	451.50	450.30	449.50	448.65	.....
2	448.30	448.50	448.55	448.70	453.20	455.60	454.90	451.40	450.00	449.40	448.70	.....
3	448.30	448.55	448.55	448.60	453.10	455.70	454.80	451.30	450.00	449.20	448.65	.....
4	448.30	448.55	448.50	448.53	452.90	455.90	454.80	451.50	449.80	449.30	448.70	.....
5	448.40	448.60	448.50	448.02	452.80	455.70	454.60	451.35	449.80	449.20	448.40	.....
6	448.40	448.50	448.45	448.70	452.90	455.60	454.50	451.40	450.00	449.30	448.30	.....
7	448.35	448.45	448.45	448.70	452.99	455.60	453.95	461.30	450.00	449.30	448.40	.....
8	448.35	448.55	448.45	448.70	453.30	455.50	453.90	450.90	450.00	449.00	448.70	.....
9	448.40	448.60	448.45	448.60	452.70	455.40	453.85	450.60	449.90	449.00	448.70	.....
10	448.40	448.45	448.45	448.35	453.00	455.40	453.30	451.50	449.70	448.90	.....	.....
11	448.35	448.45	448.45	448.70	452.95	455.20	453.60	451.30	449.50	448.70	448.80	.....
12	448.55	448.45	448.45	448.90	452.80	455.20	453.45	451.20	449.80	449.05	448.60	.....
13	448.50	448.50	448.45	449.00	452.80	455.10	453.40	451.10	450.00	448.80	448.40	.....
14	448.50	448.55	448.40	449.55	453.20	455.20	453.20	451.10	450.40	448.80	448.40	.....
15	448.45	448.45	448.40	450.25	453.50	455.20	453.15	451.00	450.30	448.90	448.50	.....
16	448.40	448.55	448.45	451.10	453.70	455.20	452.95	451.00	450.20	449.50	448.70	.....
17	448.35	448.65	448.45	451.50	453.90	455.20	452.85	450.70	449.90	448.50	448.60	.....
18	448.35	448.65	448.45	452.50	454.20	455.00	452.80	450.70	449.60	449.00	448.70	.....
19	448.40	448.65	448.40	454.00	454.40	455.00	452.70	451.00	449.70	449.30	448.70	.....
20	448.60	448.60	448.40	454.50	454.30	454.90	452.70	450.70	449.80	448.90	448.30	.....
21	448.50	448.60	448.45	454.70	454.10	454.90	452.60	450.60	449.40	448.70	448.30	.....
22	448.45	448.55	448.55	455.00	454.30	454.60	452.20	450.70	449.50	.....	448.40	.....
23	448.40	448.55	448.55	454.50	454.20	454.50	452.30	450.90	449.60	448.45	448.20	.....
24	448.35	448.60	448.55	454.10	454.80	454.90	452.20	450.90	449.50	448.30	448.00	.....
25	448.35	448.60	448.55	454.20	454.70	455.00	451.90	450.90	449.50	449.60	448.00	.....
26	448.40	448.65	448.55	454.35	454.80	455.30	451.90	450.60	449.60	448.40	448.20	.....
27	448.55	448.60	448.60	454.00	454.90	455.30	451.90	450.50	449.70	448.50	448.20	.....
28	448.55	448.55	448.60	453.80	455.10	455.25	451.80	450.20	449.50	448.70	448.10	.....
29	448.55	448.50	448.65	453.50	455.20	455.20	451.90	450.40	449.30	448.70	448.20	.....
30	448.50	.....	448.70	453.50	455.10	454.95	452.00	450.20	449.50	448.50	448.20	.....
31	448.45	.....	448.70	.....	454.90	.....	451.90	450.20	.....	448.20	.....	.....
1917												
1	.....	.....	.....	.....	447.80	447.50	448.40	448.20	447.40	447.20	447.35	.....
2	.....	.....	.....	.....	447.80	447.60	448.10	447.70	447.60	447.40	447.40	.....
3	.....	.....	.....	.....	447.80	447.50	448.20	.....	447.70	447.30	447.40	.....
4	.....	.....	.....	.....	447.80	447.60	448.20	.....	447.40	447.40	447.30	.....
5	.....	.....	.....	.....	447.80	447.30	448.00	447.80	448.30	447.50	447.25	.....
6	.....	.....	.....	.....	447.80	447.20	448.20	447.80	447.40	448.50	447.20	.....
7	.....	.....	.....	.....	447.80	447.20	448.20	447.60	447.60	447.90	447.20	.....
8	.....	.....	.....	.....	447.80	447.10	448.50	447.60	447.80	446.90	447.30	.....
9	.....	.....	.....	.....	447.80	447.10	448.50	447.70	447.60	446.95	447.30	.....
10	.....	.....	.....	.....	447.80	447.10	448.40	446.60	447.60	446.85	447.30	.....
11	.....	.....	.....	.....	447.80	447.00	447.90	446.60	447.50	448.50	447.30	.....
12	.....	.....	.....	.....	447.80	447.10	447.70	447.50	447.50	447.30	447.30	.....
13	.....	.....	.....	.....	447.80	447.00	447.70	447.40	447.50	446.90	447.30	.....
14	.....	.....	.....	.....	447.70	448.00	447.70	447.40	447.20	447.60	447.35	.....
15	.....	.....	.....	.....	447.60	448.10	447.60	447.40	447.40	447.50	447.30	.....
16	.....	.....	.....	.....	447.60	448.00	447.50	447.50	447.45	447.20	447.40	.....
17	.....	.....	.....	.....	447.60	448.40	447.80	447.50	447.45	447.30	447.75	.....
18	.....	.....	.....	.....	447.70	448.40	447.50	447.50	447.50	448.70	448.30	.....
19	.....	.....	.....	.....	447.80	448.00	447.80	447.40	447.50	.....	448.25	.....
20	.....	.....	.....	.....	447.70	448.10	447.60	447.50	447.50	447.90	448.30	.....
21	.....	.....	.....	.....	447.70	448.40	447.60	447.40	447.45	.....	447.40	.....
22	.....	.....	.....	.....	447.70	448.20	447.50	448.10	447.35	.....	447.30	.....
23	.....	.....	.....	.....	447.70	448.10	447.50	449.30	447.20	447.30	447.35	.....
24	.....	.....	.....	.....	447.60	448.10	447.40	447.90	447.05	447.15	447.40	.....
25	.....	.....	.....	.....	447.50	448.10	447.40	447.50	447.05	447.20	447.40	.....
26	.....	.....	.....	.....	447.40	448.20	447.70	447.80	447.05	447.25	447.40	.....
27	.....	.....	.....	.....	447.40	448.20	447.70	447.70	447.10	447.30	447.45	.....
28	.....	.....	.....	.....	447.30	448.20	447.80	447.60	447.30	447.30	447.40	.....
29	.....	.....	.....	.....	447.50	448.10	447.80	447.50	448.40	447.70	447.40	.....
30	.....	.....	.....	.....	447.60	448.10	447.60	447.50	447.40	447.40	447.30	.....
31	.....	.....	.....	.....	447.80	.....	447.60	447.40	.....	447.40	.....	.....

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—PINEWOOD, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1				447-20	447-40	448-40	447-50	448-00	447-80	447-90	447-50	
2				447-20	447-60	448-20	447-30	447-60	447-90	447-40	447-50	
3				447-20	447-70	448-00	447-50	447-70	447-90	447-30	447-60	
4				447-00	447-40	448-00	447-70	447-70	447-70	447-20	447-50	
5				447-00	447-50	447-80	448-10	447-70	447-90	447-30	447-50	
6				446-80	447-70	448-70	447-80	447-70	447-70	447-20	447-40	
7				446-80	447-40	448-00	447-60	448-00	447-70	447-10	447-30	
8				446-80	447-50	447-80	447-70	447-70	447-70	447-90	447-50	
9				446-70	448-10	448-00	447-90	447-40	447-70	448-40	447-90	
10				446-80	447-80	447-70	447-50	448-00	447-50	447-70		
11				446-80	447-60	448-50	447-50	447-90	447-80	447-60	447-50	
12				446-70	447-70	447-90	447-60	447-90	447-70	448-40	447-80	
13				446-70	447-90	447-90	447-60	447-90	447-70	447-80	447-30	
14				446-70	447-20	447-70	447-70	447-90	447-70	447-90	447-60	
15				446-80	447-20	447-60	447-90	447-90	447-70	447-70	447-70	
16				446-70	447-10	447-80	447-50	447-70	447-80	447-80	447-90	
17				446-80	447-40	447-60	447-60	447-60	447-80	447-90	448-30	
18				447-00	447-20	447-60	447-60	447-60	447-80	447-60		
19				446-90	447-80	447-20	447-70	447-60	447-80	447-50		
20				446-90	447-20	448-50	447-70	447-90	447-70	447-90		
21				447-40	446-80	447-80	447-70	447-70	447-60	447-80		
22				447-10	447-60	447-50	447-70	448-10	447-60	447-90		
23				446-90	447-20	447-60	447-60	447-90	447-60	447-90		
24				446-80	447-60	447-40	447-60	447-80	447-60	447-80		
25				447-10	447-60	448-10	447-70	447-80	447-60	447-50		
26			447-00	447-10	447-70	447-60	447-70	447-60	447-70	447-60		
27			447-00	447-10	446-70	447-60	447-80	447-70	447-90	447-90		
28			447-00	447-10	447-70	447-70	447-80	447-90	447-70	447-80		
29			447-20	447-10	447-60	447-70	447-70	447-90	447-80	447-60		
30			447-20	447-10	447-70	447-80	447-70	447-90	447-60	447-70		
31			447-20	447-10	447-70	447-80	447-70	448-00	447-70	447-70		
1919												
1				447-70	448-00	447-70		449-20	448-00	448-20	447-50	
2				447-70	447-90	447-60		448-80	448-10	448-20	447-50	
3				447-70	447-80	448-00			448-30	448-30	447-90	
4				447-70	447-80	448-20			448-25	448-20	447-90	
5				447-80	448-30	448-30			448-20	448-20	447-80	
6				447-80	448-00	448-30	454-00		448-20	448-20	447-70	
7				447-90	447-90	448-40	453-10		448-30	448-10	447-80	
8				448-00	448-10	448-60	451-90		448-20	448-10	447-90	
9				448-00	448-00	448-70	451-30		448-20	448-00	448-00	
10				448-10	448-00	448-10	450-70	448-10	448-25	447-90	448-00	
11				448-10	448-00	448-20	450-50	448-20	448-20	448-00	447-90	
12				448-00	447-60	448-10	450-40	448-50	448-25	447-80	447-90	
13				448-00	447-60	447-90	450-40	448-00	448-25	447-80	447-80	
14				448-00	447-60	447-80	450-60	448-20	448-00	447-80	447-90	
15				448-10	447-80	447-90	450-50	449-50	448-10	447-90	448-00	
16				448-10	447-90	448-00	450-20	449-80	448-00	447-75	448-00	
17				448-10	447-90	448-10	450-00	450-10	448-10	447-80	447-90	
18				447-80	448-00	448-60	449-60	449-20	448-30	447-80	447-90	
19				448-00	447-90	448-30	449-90	449-20	448-60	447-80	448-00	
20				448-00	447-80	448-40	449-90	449-40	448-30	447-80	448-00	
21				447-90	447-80	448-20	449-90	449-30		447-90	448-00	
22				448-10	447-70	448-10	450-00	449-10		447-90	447-90	
23				448-00	447-70	448-40	450-10	449-40		447-90	447-80	
24				448-10	447-70	448-30	449-60	449-40		448-00	447-80	
25				448-10	447-70	448-10	449-40	449-10		447-70	447-80	
26				448-00	447-70	448-40	449-20	449-00		448-40	447-80	
27				447-70	447-60	448-00	449-20	448-80		448-30	447-90	
28				448-00	447-70	448-70	449-20	448-60	448-00	447-70	447-80	
29				448-00	447-70		449-20	448-50	447-80	447-70	447-80	
30				448-80	447-70		449-50	448-80	448-50	447-90	447-80	
31					447-80		449-40	448-50		448-00		



WATER LEVELS—RAINY RIVER—PINWOOD, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1.....					448-50	448-10	449-90	448-30	447-40	447-10		
2.....					448-20	448-35	450-10	448-30	447-30	447-10		
3.....					448-00	448-30	450-00	448-10	447-50	447-00		
4.....					447-90	448-50	450-10	448-10	447-50	446-90		
5.....					447-90	448-15	450-00	447-60	447-40	446-90		
6.....					448-20	448-35	449-90	447-60	447-40	446-80		
7.....					447-90	448-55	449-50	447-60	447-30	446-80		
8.....					447-90	448-50	449-20	447-60	447-10	446-80		
9.....					447-70	448-20	449-10	447-70	447-30	446-70		
10.....					447-90	448-20	448-90	447-70	447-40	446-70		
11.....					448-00	449-20	448-70	447-80	447-10	446-90		
12.....					448-00	449-40	448-60	447-90	446-90	446-90		
13.....					447-90	449-10	448-50	447-80	446-80	446-80		
14.....				448-20	447-80	449-10	448-50	447-75	447-40	446-90		
15.....				448-20	447-80	448-90	448-60	447-70	447-50	446-90		
16.....				448-10	447-80	449-00	448-60	447-50	447-30	446-90		
17.....				448-10	447-70	448-85	448-50	447-30	447-30	446-90		
18.....				448-00	447-70	448-65	448-40	447-30	447-10	446-90		
19.....				447-95	447-70	448-60	448-50	447-60	447-00	447-00		
20.....				448-00	447-70	448-55	448-50	447-30	447-00	447-10		
21.....				448-30	447-70	448-60	448-50	447-30	447-00	446-90		
22.....				447-90	448-05	448-50	448-30	447-30	447-00	446-90		
23.....				448-60	448-30	448-45	448-30	447-30	447-10	446-80		
24.....				448-65	448-30	448-30	448-30	447-30	446-90	446-80		
25.....				448-65	448-30	448-30	448-30	447-30	446-70	446-85		
26.....				448-70	448-30	448-50	448-40	447-30	446-70	446-60		
27.....				448-85	448-20	449-50	448-40	447-40	447-00	446-10		
28.....				448-80	448-10	449-80	448-40	447-30	447-20	446-10		
29.....				448-70	448-10	449-90	448-50	447-30	447-10	447-00		
30.....				448-50	448-10	449-90	448-60	447-30	447-10	447-05		
31.....					448-10		448-70	447-40	447-00			
1921												
1.....					448-10	447-30	446-90		446-90			
2.....					447-80	447-30	447-20		446-80			
3.....					447-80	447-90	447-00		446-90			
4.....					447-70	447-90	447-10		446-80			
5.....					447-60	447-75	447-10		446-80			
6.....					447-50	447-50	447-00		446-60			
7.....					447-30	447-50	447-10	447-70	446-70			
8.....					447-25	447-50	447-10	447-70	446-90			
9.....					447-25	447-30	447-10		446-90			
10.....					447-30	447-40	447-10		447-00			
11.....					447-30	447-50	447-45	447-10	446-40			
12.....					447-60	448-00	447-10		446-90			
13.....					448-10	447-50	447-30		447-00			
14.....					448-00	447-30	447-40	446-90	447-10			
15.....					448-10	447-20	447-40	446-90	447-30			
16.....					448-00	447-20	447-40	446-90	447-60			
17.....					447-60	447-30	447-40		447-90			
18.....					447-50	447-30	447-40	446-90	447-30			
19.....					447-50	447-20	447-20	446-90	446-90			
20.....					446-90	447-20	446-90	447-40	447-00			
21.....					447-50	447-30	446-80	446-90	447-40			
22.....					447-70	447-30	447-30	446-90	447-10			
23.....					448-30	447-40	447-10		446-90			
24.....					447-90	447-20	446-70	446-90	446-90			
25.....					447-40	447-40	446-90	446-90	446-80			
26.....					447-40	447-00	447-10		447-10			
27.....					447-30	447-00	447-10		447-40			
28.....					447-30	447-00	447-10		447-30			
29.....					447-20	447-00	447-00		447-00			
30.....					447-50	447-10	447-10	446-90	446-90			
31.....					447-20		447-10	447-00				

WATER LEVELS—RAINY RIVER—PINEWOOD, ONTARIO—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1.....					448-45		447-55					
2.....					448-60		447-30					
3.....					448-55		447-00					
4.....					448-56	447-95	447-10					
5.....					448-55	447-70	447-20					
6.....					448-45	448-15	447-40					
7.....					448-45	448-40	447-40					
8.....					448-10	448-05	447-50					
9.....					448-30	448-10	447-30					
10.....					448-30	448-10	447-30					
11.....					448-30	448-60	447-30					
12.....					449-10	447-40	447-20					
13.....					449-25	448-00	447-25					
14.....					449-25	447-90	447-30					
15.....					449-20	447-95	447-50					
16.....					448-35	448-00	447-75					
17.....					448-60	447-90	447-30					
18.....					448-25	448-10	447-20					
19.....					449-10	447-95	447-20					
20.....					449-05	447-95	447-20					
21.....					448-80	447-65	447-30					
22.....					448-30	447-70	447-10					
23.....					448-70	448-00	447-20					
24.....					448-70	447-90	447-10					
25.....					448-60	447-90	447-30					
26.....					448-35	447-80	447-45					
27.....					448-40	447-70	447-25					
28.....					448-00	447-70	447-25					
29.....					448-25	447-70	447-40					
30.....					448-30	447-50	447-50					
31.....					448-40		447-25					

WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1						446-23	446-43	447-13	447-53	448-63	448-48	448-43
2						446-13	446-38	447-03	447-43	448-43	448-43	448-43
3						446-43	446-43	446-98	447-48	448-43	448-38	448-43
4						446-53	446-43	446-88	447-43	448-38	448-38	448-43
5						446-43	446-43	446-83	447-43	448-33	448-38	448-43
6						446-58	446-43	446-83	447-43	448-38	448-33	448-43
7						446-43	446-43	447-03	447-38	448-38	448-38	448-43
8						446-38	446-43	447-13	447-38	448-38	448-93	448-43
9						446-03	446-63	447-23	447-43	448-33	448-93	448-43
10						446-03	446-63	447-23	447-43	448-33	448-53	448-43
11							446-63	446-63	447-13	447-48	448-33	448-43
12					446-13	446-38	446-68	447-13	447-53	448-28	448-48	448-43
13					445-93	446-33	446-73	447-08	447-53	448-28	448-53	448-43
14					445-93	446-28	446-83	447-13	447-53	448-28	448-58	448-43
15					446-23	446-53	446-63	447-18	447-53	448-28	448-48	448-43
16					445-98	446-93	446-73	447-08	447-53	448-33	448-43	448-43
17					446-13	446-13	447-28	447-13	447-63	448-38	448-53	448-43
18					446-28	446-38	446-83	447-13	447-73	448-53	448-48	448-48
19					446-13	446-48	446-63	447-18	447-93	448-38	448-43	448-48
20					446-08	446-33	446-83	447-13	448-18	448-38	448-53	448-48
21					446-13	446-43	446-88	447-08	448-43	448-33	448-63	448-48
22					446-18	446-43	446-83	447-13	448-83	448-33	448-73	448-48
23					446-23	446-43	446-83	447-18	448-93	448-38	448-93	448-53
24					446-18	446-43	446-83	447-23	448-93	448-43	448-93	448-53
25					446-13	446-53	447-23	447-13	449-03	448-48	448-83	448-53
26					446-13	446-53	446-83	447-23	449-03	448-43	448-73	448-53
27					445-98	446-43	447-03	447-28	448-83	448-43	448-68	448-53
28					446-53	446-23	446-93	447-38	448-73	448-48	448-63	448-53
29					446-13	446-43	447-03	447-43	448-69	448-48	448-53	448-53
30					445-98	446-43	447-13	447-43	448-73	448-48	448-43	448-48
31					446-13		447-18	447-53		448-43		448-48
1913												
1	448-48	448-48	448-43	448-48	448-83	448-88	448-33	448-63	448-03			449-31
2	448-48	448-48	448-43	448-48	448-83	448-93	448-38	448-63	448-13			449-34
3	448-48	448-43	448-43	448-48	448-83	448-88	448-43	448-58	448-03			449-33
4	448-53	448-43	448-43	448-48	448-88	449-03	448-43	448-58	448-08			449-37
5	448-53	448-43	448-53	448-48	448-88	449-03	448-48	448-63	448-03			449-41
6	448-53	448-43	448-38	448-48	448-88	449-63	448-53	448-58	448-03			450-73
7	448-53	448-43	448-38	448-43	448-93	448-83	448-53	448-48				450-07
8	448-53	448-43	448-38	448-43	449-08	448-83	449-03	448-33				449-26
9	448-53	448-48	448-38	448-43	449-03	448-63	448-83	448-43				449-36
10	448-58	448-48	448-43	448-48	448-93	448-63	448-83	448-53				449-38
11	448-58	448-48	448-43	448-48	448-93	448-73	448-88	448-48				449-41
12	448-58	448-53	448-43	448-43	448-98	448-63	448-93	448-43				449-48
13	448-53	448-53	448-43	448-53	448-98	448-63	448-88	448-43				449-37
14	448-53	448-53	448-43	448-53	449-03	448-63	448-73	448-48				449-43
15	448-53	448-53	448-43	448-63	449-08	448-63	448-63	448-53				449-37
16	448-53	448-48	448-43	448-63	449-03	448-83	448-63	448-58				449-33
17	448-53	448-48	448-43	448-83	449-03	448-73	448-63	448-58				449-37
18	448-58	448-53	448-43	448-93	448-93	448-68	448-73	448-58				449-39
19	448-58	448-53	448-38	448-83	448-83	448-73	448-73	448-53				449-38
20	448-58	448-53	448-38	448-73	448-83	448-63	448-83	448-43				449-39
21	448-58	448-48	448-38	448-73	449-03	448-63	448-88	448-48				449-38
22	448-53	448-48	448-43	448-78	448-93	448-53	449-03	448-43				449-39
23	448-53	448-48	448-43	448-83	448-93	448-43	448-88	448-33				449-38
24	448-53	448-48	448-43	448-88	448-93	448-33	448-73	448-23				449-39
25	448-53	448-43	448-48	448-93	448-88	448-33	448-68	448-53				449-39
26	448-53	448-43	448-48	448-83	448-83	448-33	448-73	448-58				449-39
27	448-53	448-43	448-48	448-83	448-83	448-38	448-63	448-43				449-37
28	448-48	448-43	448-48	448-78	448-88	448-28	448-63	448-38			449-25	449-37
29	448-48		448-48	448-73	448-78	448-33	448-73	448-33				449-33
30	448-48		448-48	448-78	448-63	448-28	448-68	448-23				449-34
31	448-48		448-48		448-83		448-63	448-43				449-37

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1.	449-37		447-70		447-85	448-90	448-80	448-80	448-20	447-90	448-50	448-40
2.	449-38		447-70		447-85	448-95	448-80	448-80	448-20	447-90	448-70	448-50
3.	449-38		447-70		448-05	448-90	448-90	448-70	448-20	447-90	448-60	448-50
4.	449-35		447-70		448-15	449-00	448-90	448-80	418-10	448-00	448-90	448-50
5.	449-37		447-70		448-15	449-10	448-70	448-70	448-00	448-10	448-50	448-50
6.	449-37		447-70		448-25	449-10	448-65	448-60	447-90	448-10	448-10	448-50
7.	449-37		447-70		448-40	449-10	448-70	448-60	447-90	448-10	449-00	448-50
8.	449-37		447-70		448-35	449-10	448-80	448-50	447-90	448-10	448-20	448-50
9.			447-70		448-30	449-10	448-90	448-50	447-70	448-20	448-10	448-50
10.			447-60		448-50	449-10	448-80	448-40	447-90	448-60	448-50	448-50
11.			447-65		448-35	449-25	448-70	448-40	447-90	448-60	448-50	448-50
12.			447-65		448-35	449-30	448-80	448-60	447-70	448-60	448-40	448-50
13.			447-65		448-45	449-30	448-90	448-60	447-60	448-30	448-50	448-40
14.		447-70	447-65		448-35	449-30	448-90	448-50	447-80	448-10	448-50	448-40
15.		447-65	447-65		448-35	449-30	449-00	448-50	447-70	448-40	448-80	448-40
16.		447-65	447-65		448-25	449-35	449-00	448-40	448-20	448-20	449-00	448-40
17.		447-65	447-65		448-00	449-25	449-30	448-40	448-00	448-40	448-40	448-50
18.		447-65	447-65		448-00	449-30	449-70	448-30	448-10	448-20	448-80	448-50
19.		447-65	447-65		448-15	449-30	449-80	448-20	447-90	448-30	448-50	448-50
20.		447-65	447-65		448-45	449-30	449-70	448-20	448-00	448-30	448-50	448-50
21.		447-70	447-60		448-75	449-30	449-50	448-20	448-90	448-40	448-50	448-40
22.		447-70	447-60		448-75	449-30	449-50	448-30	449-00	448-20	448-40	448-50
23.		447-70	447-60		448-75	449-20	449-40	448-40	448-20	448-80	448-40	448-40
24.		447-70	447-60		448-50	449-30	449-40	448-20	448-30	448-30	448-50	448-40
25.		447-70	447-60	447-75	448-50	449-30	449-40	448-10	448-10	449-30	448-50	448-50
26.		447-70	447-60	447-90	448-80	449-25	449-30	448-20	448-10	448-60	448-60	448-40
27.		447-70	447-60	448-00	448-70	449-30	449-30	448-10	447-80	448-20	448-50	448-40
28.		447-70	447-60	447-90	448-50	449-30	449-20	448-00	447-80	448-60	448-50	448-40
29.		447-60	447-80	448-90	448-90	449-30	449-10	448-10	447-80	448-50	448-40	448-40
30.		447-60	447-80	448-75	449-30	449-00	449-00	448-20	448-10	448-30	448-40	448-40
31.		447-60		448-90		449-00	449-00	448-20		448-40		448-40
1915												
1.	448-50	448-50	448-50	448-50	448-80	448-70	450-20	449-25	448-30	448-00	448-20	447-20
2.	448-50	448-50	448-50	448-50	448-65	448-80	450-00	449-10	448-00	448-10	447-85	447-20
3.	448-50	448-50	448-51	448-50	448-65	448-70	449-90	449-10	448-25	448-20	447-60	447-20
4.	448-50	448-50	448-50	448-50	448-60	448-60	450-10	449-10	448-15	448-50	447-80	447-20
5.	448-50	448-50	448-50	448-50	448-80	448-60	449-80	449-00	448-00	447-80	447-40	447-20
6.	448-50	448-50	448-50	448-50	448-65	448-90	449-65	449-00	448-00	448-90	447-80	447-30
7.	448-50	448-50	448-50	448-50	448-85	448-70	449-65	449-00	447-85	449-00	447-90	447-40
8.	448-51	448-50	448-50	448-50	448-95	448-90	449-60	448-95	448-50	448-15	449-10	447-40
9.	448-50	448-50	448-50	448-50	448-65	448-55	449-50	448-95	448-10	447-80	447-80	447-60
10.	448-50	448-50	448-50	448-50	448-60	448-65	449-40	448-80	448-40	448-05	447-15	447-60
11.	448-40	448-50	448-50	448-60	448-80	448-75	449-55	448-70	448-20	448-00	447-70	447-80
12.	448-50	448-50	448-50	448-40	448-95	448-75	449-50	448-80	448-00	447-80	447-79	448-00
13.	448-50	448-50	448-50	448-40	449-00	448-95	449-50	448-80	448-05	448-00	447-90	448-20
14.	448-50	448-50	448-50	448-40	449-00	448-95	449-55	448-80	448-20	447-90	447-30	448-20
15.	448-50	448-50	448-50	448-50	448-80	449-30	449-50	448-65	447-65	448-00	447-15	448-20
16.	448-50	448-50	448-50	448-50	449-20	449-60	449-50	448-75	448-15	448-00	447-10	448-20
17.	448-50	448-50	448-50	448-40	449-25	449-20	449-70	448-65	447-80	448-00	447-10	448-20
18.	448-50	448-50	448-50	448-50	449-10	449-60	449-50	448-55	448-20	447-90	447-10	448-00
19.	448-50	448-50	448-50	448-40	449-20	449-60	449-50	448-50	447-80	447-80	447-10	448-00
20.	448-50	448-50	448-50	448-50	449-10	449-20	449-50	448-50	448-80	447-90	447-40	448-00
21.	448-50	448-50	448-50	448-30	449-15	449-70	449-45	448-50	448-00	448-00	447-40	448-00
22.	448-50	448-50	448-50	448-50	449-10	449-25	449-35	448-50	447-85	447-90	447-10	448-00
23.	448-50	448-50	448-50	448-50	449-00	449-15	449-50	448-95	448-10	447-90	447-10	448-00
24.	448-50	448-50	448-50	448-60	449-00	449-10	449-35	448-60	447-90	447-95	447-20	448-00
25.	448-50	448-50	448-50	448-50	449-50	449-20	449-30	448-70	448-40	448-35	447-20	448-00
26.	448-50	448-50	448-50	448-55	448-85	449-10	449-20	448-30	448-10	448-10	447-20	447-50
27.	448-50	448-50	448-50	448-60	448-90	449-50	449-25	448-20	447-80	447-65	447-20	447-75
28.	448-50	448-50	448-50	449-00	448-85	449-90		448-70	447-80	448-10	447-20	447-70
29.	448-50		448-50	448-85	448-80	450-00	449-15	448-35	447-90	447-95	447-20	447-80
30.	448-50		448-50	448-85	448-90	450-10	449-20	448-30	447-90	447-90	447-10	448-00
31.	448-50		448-50		448-80		449-10	448-20		448-10		448-00

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611-61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1	448-00	448-20	448-10	448-05	450-65	452-30	452-55	451-20	450-10	449-15	448-45	
2	448-10	448-20	448-10	448-05	450-65	452-30	452-55	451-15	449-85	449-35	448-45	
3	448-00	448-20	448-10	448-05	450-75	452-40	452-50	451-10	449-85	449-05	448-45	
4	448-00	448-25	448-10	448-05	450-75	452-50	452-45	451-25	450-00	449-05	448-50	
5	448-00	448-25	448-10	448-00	450-65	452-30	452-40	451-05	449-80	448-95	448-20	
6	448-00	448-25	448-10	448-00	450-65	452-30	452-20	451-15	449-80	448-90	447-90	
7	448-00	448-25	448-10	448-00	450-65	452-40	452-40	451-05	449-75	449-10	447-50	
8	448-00	448-20	448-10	448-00	450-75	452-45	452-25	450-90	449-80	448-95	448-40	
9	448-00	448-20	448-10	448-00	450-75	452-45	452-50	450-25	449-55	448-50	448-50	
10	447-90	448-25	448-10	447-85	450-70	452-45	452-25	451-20	449-20	448-70	448-95	
11	447-90	448-25	448-10	447-95	450-80	452-40	452-15	450-90	449-65	448-60	448-50	
12		448-25	448-10	448-25	450-70	452-35	452-00	450-90	449-60	449-05		
13		448-25	448-10	448-40	450-80	452-35	452-50	450-70	449-85	448-65		
14	447-90	448-20	448-10	448-65	450-85	452-30	451-95	450-55	450-20	448-80		
15	447-90	448-20	448-10	449-10	451-60	452-40	451-95	450-65	449-70			
16	447-90	448-20	448-10	449-40	451-50	452-40	452-00	450-35	449-90			
17	448-00	448-20	448-10	449-30	451-40	452-45	451-75	450-55	449-65			
18	448-15	448-20	448-05	449-70	451-50	452-40	451-90	450-40	449-35			
19	448-00	448-25	448-05	450-55	451-60	452-35	451-95	450-65	449-45			
20	448-00	448-25	448-05	450-55	451-60	452-30	451-90	450-45	449-60			
21	448-00	448-15	448-05	450-65	451-30	452-20	451-90	450-45	450-15			
22	448-00	448-15	448-05	450-65	451-80	452-25	451-80	450-40	449-50	448-65		
23	448-15	448-15	448-05	450-65	451-80	452-00	451-95	450-60	449-30	448-45		
24	448-15	448-15	448-05	450-55	451-95	452-50	451-70	450-50	449-45	448-10		
25	448-15	448-15	448-05	450-65	451-95	452-30	451-60	450-55	449-15	449-45		
26	448-15	448-15	448-05	450-70	451-90	452-50	451-45	450-50	449-20	448-20		
27	448-15	448-10	448-05	450-65	451-95	452-45	451-55	450-20	449-55	448-30		
28	448-15	448-10	448-05	450-50	452-00	452-50	451-25	450-00	449-55	448-35		
29	448-15	448-10	448-05	450-55	452-15	452-40	451-50	450-20	449-20	448-40		
30	448-25		448-10	450-60	452-10	452-35	451-40	450-00	449-25	448-10		
31	448-25		448-05		452-00		451-40	450-05		448-40		
1917												
1					447-25	447-15	448-25	447-95	447-60	447-25	447-35	
2					447-20	447-15	448-50	447-65	447-50	447-40	447-30	
3					447-20	447-25	447-25	447-45	447-60	447-30	447-35	
4					447-20	447-15	447-20	447-85	447-40	447-75	447-30	
5					447-25	447-15	447-00	447-95	448-20	447-40	447-35	
6					447-25	447-25	447-30	447-55	447-45	447-90	447-30	
7					447-30	447-20	447-40	447-60	447-45	448-15	447-25	
8					447-30	447-15	447-65	448-00	447-75	447-00	447-25	
9					447-30	447-10	447-50	447-75	447-60	447-30	447-25	
10					447-30	446-80	447-35	447-60	447-50	446-80	447-30	
11					447-40	447-15	447-65	447-60	447-40	448-50	447-30	
12					447-30	447-25	447-50	447-45	447-40	447-30	447-25	
13					447-30	447-75	447-60	447-45	447-60	447-00	447-15	
14					447-25	447-75	447-70	447-30	447-40	447-60	447-25	
15					447-25	447-05	447-55	447-70	447-40	447-50	447-25	
16					447-25	447-15	447-50	447-60	447-40	447-25	447-25	
17					447-45	447-05	447-50	447-60	447-60	447-30	447-70	
18					447-30	447-20	447-40	447-65	447-45	448-60	447-20	
19					447-55	447-20	447-75	447-90	447-55	447-25	447-30	
20					447-50	447-25	447-60	447-60	447-40	447-70	447-30	
21					447-50	447-35	447-45	447-35	447-40	447-15	448-00	
22					447-40	447-20	447-80	447-60	447-30	447-80	447-30	
23					447-40	447-10	447-45	449-30	447-35	446-90	447-30	
24					447-30	447-25	447-50	447-80	447-50	447-20	447-40	
25					447-30	447-55	447-55	447-50	447-30	447-20	447-25	
26					447-50	447-25	447-60	447-55	448-10	447-40	447-25	
27					447-30	447-25	447-45	447-60	447-30	447-20	447-25	
28					447-20	447-40	447-80	447-70	447-50	447-50	447-30	
29					447-15	447-30	447-90	447-50	447-50	447-50	447-30	
30					447-65	447-25	447-60	447-30	447-40	447-30	447-30	
31					447-65		447-65	447-45		447-35		

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918.												
1				446-90	447-10	447-95	447-50	447-80	447-70	447-60	447-50	447-60
2				446-90	447-10	447-70	447-55	447-55	447-70	447-45	447-50	447-60
3				446-95	447-20	447-65	447-40	447-60	447-85	447-30		447-60
4				446-90	447-05	447-70	447-60	447-80	447-70	447-30		447-60
5				446-90	447-20	447-50	448-20	447-70	447-00	447-70		447-60
6				446-90	447-45	448-10	447-65	447-55	447-70	447-30	447-60	447-70
7				446-95	447-25	447-60	447-55	447-60	447-65	447-50	447-50	447-70
8				446-80	447-20	447-70	447-60	447-60	448-70	447-70	447-20	447-70
9				446-80	447-35	447-70	447-80	447-30	447-70	447-45	447-90	447-70
10				446-80	447-40	447-50	447-60	447-85	447-80	447-40	447-35	447-70
11				446-80	447-20	448-10	447-55	447-65	447-60	447-40	447-45	447-70
12				446-80	447-30	447-60	447-50	447-65	447-60	448-60	447-85	447-70
13				446-80	447-60	447-80	447-55	447-70	447-75	447-00	447-50	447-70
14				446-80	447-10	447-60	447-65	447-80	447-75	447-30	447-60	447-70
15				446-80	447-15	447-30	447-90	447-75	447-65	447-25	447-60	447-75
16				446-80	447-10	447-75	447-60	447-75	447-55	447-50	447-65	447-75
17				447-10	447-10	447-65	447-65	447-70	447-50	447-75	448-10	447-75
18				447-00	447-10	447-65	447-55	447-80	447-65	447-30	448-40	447-75
19				446-90	447-45	447-30	447-70	447-30	447-70	447-40	447-85	447-75
20				446-90	447-20	448-20	447-55	447-70	447-65	448-00	448-05	447-75
21		446-90	447-00	447-00	447-85	447-70	447-75	447-50	447-10	448-00	447-75	447-75
22		446-90	447-45	447-15	447-50	447-65	447-75	447-60	447-60	447-60	447-65	447-75
23		446-90	446-90	447-10	447-60	447-55	447-65	447-50	447-40	447-70	447-70	447-70
24		446-90	446-75	447-30	447-60	448-05	447-65	447-55	447-90	447-90	447-70	447-70
25		446-95	446-85	447-50	447-55	447-60	448-15	447-55	447-55	447-55	447-65	447-70
26		446-95	447-05	447-60	447-80	447-60	447-60	447-80	447-50	447-50	447-55	447-70
27		446-95	447-00	447-40	447-40	447-35	447-80	447-70	447-70	447-55	447-65	447-65
28		446-95	447-35	447-40	447-00	447-10	448-10	447-05	447-70	447-70	447-70	447-65
29		446-90	447-45	447-35	447-70	447-70	447-75	447-70	447-70	447-70	447-60	447-70
30		446-90	446-90	447-45	447-75	447-70	447-75	447-50	447-50	447-80	447-60	447-70
31				447-50			447-60	447-80		447-90		447-70
1919												
1	447-75	447-80	447-95	447-80	447-80	447-95	448-65	449-00	447-90	447-75	447-85	447-70
2	447-75	447-75	447-90	447-70	447-80	448-00	449-20	448-85	448-10	447-80	447-60	447-65
3	447-70	447-80	448-00	447-65	447-70	447-50	450-70	448-90	448-20	447-75	447-70	447-65
4	447-70	447-75	447-95	447-65	447-95	448-20	451-20	448-80	448-15	447-80	447-80	447-65
5	447-70	447-80	447-95	447-65	447-85	448-20	452-00	449-90	448-10	447-95	447-75	447-70
6	447-70	447-65	448-00	447-75	447-80	448-15	450-70	449-00	448-00	448-75	447-70	447-70
7	447-70	447-85	448-00	447-90	447-80	448-05	449-90	449-00	448-10	447-60	447-60	447-65
8	447-70	447-85	447-95	447-85	447-85	448-05	450-10	448-80	448-20	447-55	447-65	447-65
9	447-70	447-85	447-95	447-85	447-85	448-00	450-50	448-60	448-00	448-60	447-70	447-65
10	447-75	447-85	447-90	447-90	447-80	447-90	449-75	448-40	448-10	448-30	447-75	447-65
11	447-75	447-80	447-90	447-85	447-85	448-00	449-70	448-50	448-00	448-00	447-60	447-65
12	447-70	447-75	447-95	447-80	447-80	448-05	449-75	448-50	448-15	448-10	447-60	447-65
13	447-70	447-90	447-90	447-80	447-85	448-20	449-80	448-75	448-15	447-70	447-55	447-65
14	447-70	447-85	447-90	447-80	447-70	448-00	449-85	448-75	448-00	447-80	447-60	447-65
15	447-70	447-80	447-90	447-85	447-80	448-10	449-75	448-75	448-10	447-95	447-70	447-60
16	447-70	447-85	447-85	447-85	447-90	448-00	449-60	449-20	448-10	447-80	447-70	447-60
17	447-75	447-80	447-80	447-80	447-90	448-10	449-50	449-00	448-00	447-70	447-70	447-55
18	447-75	447-80	447-80	447-75	447-90	448-20	449-40	448-90	448-10	447-65	447-65	447-55
19	447-75	447-85	447-85	447-80	447-90	448-10	449-45	449-00	448-45	447-70	447-70	447-55
20	447-80	447-85	447-80	447-70	447-85	448-20	449-35	448-95	448-30	447-65	447-70	447-55
21	447-75	447-90	447-80	447-75	447-95	448-00	449-45	448-75	448-20	447-50	447-70	447-55
22	447-80	447-85	447-80	447-80	447-85	448-30	449-55	448-70	448-40	447-40	447-70	447-55
23	447-80	447-85	447-80	448-00	447-85	448-50	449-60	448-75	449-00	447-60	447-70	447-55
24	447-70	447-85	447-90	447-85	447-85	448-45	449-20	448-70	449-15	447-75	447-70	447-55
25	447-70	447-85	447-75	447-80	447-85	448-70	449-40	448-70	448-80	447-80	447-65	447-55
26	447-70	447-80	447-85	447-80	447-70	448-80	449-35	448-75	448-00	447-80	447-60	447-55
27	447-70	447-80	447-80	447-95	447-75	448-60	449-35	448-70	448-70	447-75	447-65	447-55
28	447-70	447-95	447-80	447-80	447-75	448-40	449-30	448-75	448-05	447-80	447-65	447-55
29	447-75		447-80	447-60	447-70	448-30	449-00	448-80	448-00	447-85	447-65	447-55
30	447-70		447-75	447-85	447-55	448-20	449-00	448-40	447-80	447-70	447-65	447-55
31	447-70		447-80		448-10		449-00	448-40		448-15		447-55

## WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1	447.55	447.60	447.50	447.75	447.80	447.80	448.25	447.70	447.35	446.90	447.15	447.00
2	447.55	447.60	447.50	447.75	447.80	447.90	448.50	447.40	447.40	447.00	447.20	446.95
3	447.55	447.60	447.50	447.75	447.75	448.10	448.30	447.50	447.30	447.10	447.10	447.00
4	447.55	447.55	447.50	447.75	447.60	448.10	448.15	447.80	447.20	447.20	447.20	447.00
5	447.55	447.45	447.40	447.75	447.70	448.00	448.20	447.70	447.30	447.10	447.20	447.00
6	447.60	447.55	447.40	447.75	447.70	447.95	448.25	447.65	447.20	446.80	447.10	446.95
7	447.60	447.55	447.40	447.75	447.70	448.10	448.20	447.50	447.10	446.85	446.95	446.95
8	447.60	447.50	447.40	447.75	447.65	448.25	448.20	447.50	447.30	447.00	447.10	447.00
9	447.60	447.50	447.40	447.60	447.70	448.10	448.50	447.60	447.20	447.00	447.35	447.00
10	447.60	447.60	447.40	447.60	447.65	448.25	447.80	447.60	447.10	447.15	447.20	446.90
11	447.60	447.55	447.40	447.60	447.75	447.95	448.00	448.20	447.30	447.50	447.10	447.00
12	447.60	447.55	447.40	447.60	447.75	448.20	447.95	447.60	447.30	447.10	447.10	446.95
13	447.60	447.55	447.40	447.65	447.65	448.25	448.50	447.40	446.70	447.10	447.20	446.90
14	447.60	447.55	447.40	447.70	447.55	448.15	448.50	447.50	446.20	447.10	447.10	446.95
15	447.60	447.55	447.40	447.70	447.55	448.20	448.50	.....	447.70	447.10	447.10	447.00
16	447.60	447.55	447.40	447.70	447.55	448.25	447.85	.....	447.80	447.05	447.20	446.95
17	447.60	447.55	447.35	447.65	447.40	448.10	448.10	.....	447.60	447.00	447.35	447.00
18	447.60	447.55	447.35	447.65	447.40	448.10	447.80	.....	447.10	447.10	447.10	446.95
19	447.60	447.55	447.35	447.50	447.60	448.00	447.65	.....	447.15	447.00	447.10	447.00
20	447.60	447.50	447.35	447.55	447.45	447.85	447.90	.....	447.00	447.10	447.00	446.95
21	447.60	447.50	447.35	447.55	447.35	448.20	447.70	.....	447.15	446.90	447.00	446.95
22	447.60	447.50	447.40	447.65	447.65	447.80	447.75	447.20	447.80	447.20	447.10	446.90
23	447.60	447.50	447.40	447.75	447.60	447.90	448.00	447.15	447.20	447.10	447.10	446.95
24	447.60	447.50	447.50	447.75	447.50	447.75	448.50	447.15	447.10	447.40	447.10	447.00
25	447.60	447.50	447.55	447.85	447.70	447.90	447.70	446.90	447.20	447.50	447.00	447.00
26	447.60	447.50	447.60	447.85	447.70	447.95	447.65	447.10	447.20	447.55	447.00	446.95
27	447.60	447.50	447.75	447.85	447.80	447.95	447.75	447.10	447.40	447.40	447.30	446.95
28	447.60	447.50	447.80	447.85	447.60	448.10	448.00	447.50	447.80	447.50	446.95	446.95
29	447.60	447.50	447.80	447.80	447.40	448.20	447.90	446.90	447.60	447.35	446.95	447.00
30	447.60	.....	447.80	447.75	447.85	448.25	448.00	447.30	447.30	447.20	447.00	446.95
31	447.60	.....	447.75	.....	447.80	.....	448.00	447.35	.....	447.60	.....	447.00
1921												
1	447.00	447.05	446.95	447.15	447.85	447.50	447.00	.....	446.60	447.10	446.70	446.70
2	447.05	447.05	447.00	447.20	447.75	447.75	447.20	.....	447.00	447.20	446.50	446.75
3	447.05	447.00	446.95	447.25	447.70	447.50	447.10	.....	446.70	447.30	447.00	446.70
4	447.05	447.00	447.00	447.30	447.60	.....	447.15	.....	447.00	446.70	447.10	.....
5	447.00	447.00	447.00	447.50	447.55	447.35	447.30	.....	447.20	446.90	446.90	446.70
6	447.00	447.00	447.00	447.55	447.80	447.35	447.25	.....	447.20	447.50	446.80	446.70
7	447.05	447.00	447.00	447.85	447.60	447.40	447.20	447.35	447.10	447.50	447.00	446.65
8	447.05	447.00	447.00	448.40	447.70	447.40	447.00	447.30	446.80	446.80	446.70	446.70
9	447.05	447.00	447.00	449.40	447.55	447.20	447.35	.....	446.80	446.90	446.80	446.70
10	447.00	446.95	447.00	449.00	447.55	447.50	447.35	.....	446.80	446.80	446.85	446.70
11	447.00	446.95	447.00	448.25	447.60	447.40	447.30	447.15	446.75	446.90	446.80	446.70
12	447.00	447.00	447.00	448.05	447.60	447.70	447.30	.....	447.00	447.00	446.70	446.70
13	447.05	447.00	447.05	447.90	448.15	447.40	447.30	.....	447.15	446.90	446.90	446.70
14	447.05	447.00	447.05	448.00	447.95	447.50	447.45	446.90	447.00	447.10	446.75	446.70
15	447.05	446.95	447.05	447.85	447.50	447.10	447.30	446.90	447.20	446.80	446.75	446.70
16	447.05	446.95	447.00	447.80	447.40	447.20	447.10	446.90	446.80	446.75	446.70	446.70
17	447.05	446.95	447.00	447.70	447.60	447.50	447.30	.....	447.90	447.10	446.70	446.70
18	447.00	447.00	447.00	447.65	447.40	447.35	447.35	446.90	447.00	447.10	446.80	446.70
19	447.00	447.00	447.00	447.75	447.30	447.30	447.30	447.10	446.90	446.70	446.75	446.70
20	447.95	447.00	447.00	447.70	446.40	447.10	447.35	447.00	447.00	446.75	446.70	446.70
21	446.95	446.95	447.00	447.85	447.60	447.20	447.35	447.80	447.30	447.00	446.75	446.70
22	447.00	446.95	447.00	447.75	447.20	447.40	447.50	446.90	447.25	447.10	446.75	446.70
23	447.05	446.95	447.05	447.70	447.50	447.30	447.25	.....	447.05	446.80	446.70	446.65
24	447.05	446.90	447.05	447.75	447.50	447.50	447.25	447.05	447.30	446.70	446.65	446.65
25	447.05	446.90	447.10	447.70	447.40	447.20	447.10	446.90	447.00	446.70	446.70	446.65
26	447.05	446.95	447.10	447.75	447.30	447.50	447.10	.....	447.00	446.60	446.65	446.65
27	447.00	446.95	447.05	448.10	447.40	447.40	447.40	.....	447.00	446.70	446.65	446.65
28	447.05	446.95	447.05	447.80	447.30	447.20	447.20	.....	447.00	446.80	.....	446.65
29	447.05	.....	447.10	447.70	447.50	447.10	447.10	.....	447.20	446.75	.....	446.65
30	447.05	.....	447.10	447.70	447.40	447.05	446.95	446.90	447.25	.....	.....	446.65
31	447.05	.....	447.10	.....	447.50	.....	446.90	446.80	.....	.....	.....	446.70

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO—Continued

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

[Elevations refer to D. P. W. Datum—For Sea-level, Datum add 661.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	446-70	446-75	446-85	.....	448-20	448-30	447-95	447-50	447-10	446-95	446-90	447-10
2	446-70	446-80	446-90	447-15	448-30	448-30	447-80	447-50	447-00	447-15	446-90	447-15
3	446-70	446-85	446-90	447-15	448-40	448-10	447-45	447-50	447-10	446-95	446-85	447-10
4	446-70	446-90	446-90	447-05	448-00	447-90	447-35	447-45	447-30	447-25	446-80	447-10
5	446-70	446-90	446-95	447-10	448-15	448-10	447-50	447-45	447-10	446-95	446-90	447-20
6	446-70	446-85	446-90	447-15	448-00	448-00	447-50	447-15	447-10	447-00	447-00	447-25
7	446-70	446-85	446-95	447-10	448-00	448-00	447-45	447-15	447-25	447-25	447-55	447-15
8	446-70	446-80	446-95	447-15	447-95	448-00	447-30	447-45	447-10	446-85	447-05	447-15
9	446-70	446-80	446-95	447-15	447-85	448-10	447-45	447-45	447-30	446-95	447-00	447-15
10	446-70	446-80	446-95	447-15	448-00	448-10	447-55	447-40	447-35	447-25	447-50	447-15
11	446-70	446-75	446-95	447-75	447-90	447-90	447-50	447-30	447-10	446-60	446-90	447-15
12	446-70	446-75	447-00	447-80	448-10	448-00	447-45	447-15	447-40	446-85	447-55	447-10
13	446-70	446-75	447-00	447-95	447-45	448-00	447-25	447-45	447-30	447-30	447-15	447-15
14	446-70	446-80	446-95	447-80	448-50	447-70	447-30	447-45	447-30	446-65	447-20	447-10
15	446-70	446-85	447-05	447-75	448-45	448-10	447-50	447-15	447-65	446-85	447-15	447-10
16	446-70	446-85	447-05	447-80	448-50	448-00	447-70	447-30	447-05	446-95	446-15	447-15
17	446-70	446-85	447-05	448-05	448-20	447-85	447-70	447-30	447-10	447-45	446-10	.....
18	446-70	446-80	447-00	448-40	448-90	447-85	447-40	447-40	447-10	446-90	446-15	.....
19	446-70	446-80	447-05	448-45	448-60	447-90	447-40	447-10	447-10	446-95	446-25	.....
20	446-70	446-80	447-05	448-50	448-45	447-90	447-40	447-10	447-05	447-00	446-10	.....
21	446-70	446-85	446-95	448-30	448-45	447-60	447-35	447-30	447-20	446-80	446-15	.....
22	446-70	446-85	446-95	448-22	448-50	447-65	447-75	447-20	447-30	447-00	446-95	.....
23	446-70	446-90	447-00	448-05	448-50	448-00	447-50	447-20	447-55	446-60	447-90	.....
24	446-70	446-90	447-00	448-25	448-55	447-90	447-55	447-25	447-10	447-45	446-15	447-20
25	446-70	446-85	447-05	448-20	448-50	447-65	447-50	447-30	447-55	446-90	446-15	447-35
26	446-70	446-85	447-10	448-05	448-35	447-90	447-50	447-10	447-10	446-85	447-10	447-30
27	446-70	446-90	447-05	448-10	448-35	447-70	447-75	447-05	446-80	446-90	447-10	447-40
28	446-70	446-90	446-95	448-20	448-60	447-75	447-50	447-10	446-55	446-75	447-15	447-40
29	446-70	.....	447-10	448-25	448-35	447-65	447-50	447-15	446-90	.....	447-10	447-35
30	446-70	.....	447-15	447-95	448-25	447-75	447-70	447-15	446-90	.....	447-10	447-35
31	446-75	.....	447-15	.....	448-40	.....	447-50	447-10	.....	.....	.....	447-40
1923												
1	447-35	447-60	447-70	447-50	448-10	447-95	448-15	447-80	447-65	447-35	446-85	446-85
2	447-30	447-65	447-75	447-50	448-10	447-95	448-15	447-80	447-65	447-30	446-80	446-85
3	447-40	447-60	447-75	447-45	448-30	447-95	448-10	447-80	447-60	447-35	446-60	446-75
4	447-40	447-60	447-75	447-30	448-35	447-95	447-95	447-85	447-55	447-25	446-80	446-80
5	447-35	447-60	447-80	447-35	448-35	447-95	447-85	447-85	447-55	447-20	446-80	446-80
6	447-40	447-60	447-80	447-35	448-35	447-95	447-80	447-85	447-50	447-15	446-75	446-85
7	447-40	447-60	447-85	447-20	448-35	447-90	447-85	447-80	447-50	447-10	446-75	446-85
8	447-45	447-60	447-85	447-20	448-35	448-00	448-05	447-75	447-45	447-15	446-60	446-85
9	447-45	447-55	447-80	447-20	448-35	448-05	448-00	447-80	447-45	447-35	446-60	447-25
10	447-40	447-60	447-85	447-25	448-30	448-05	448-00	447-80	447-30	447-45	446-60	447-30
11	447-45	447-60	447-85	447-20	448-35	448-00	448-15	447-95	447-30	447-80	446-65	447-35
12	447-40	447-60	447-85	447-25	448-30	448-05	448-15	447-75	447-45	447-55	446-60	447-30
13	447-40	447-60	447-80	447-00	447-95	448-05	448-15	448-05	447-40	446-85	446-65	447-30
14	447-45	447-60	447-85	447-00	448-30	448-00	448-00	447-90	447-45	446-85	446-70	447-25
15	447-45	447-60	447-80	447-05	448-25	447-90	448-05	447-85	447-15	447-15	446-75	447-25
16	447-40	447-65	447-80	447-10	448-20	447-55	447-95	447-85	447-10	446-95	446-85	446-30
17	447-45	447-65	447-80	448-30	447-90	447-95	448-15	447-70	447-35	447-05	446-85	446-20
18	447-40	447-60	447-80	448-50	447-95	447-75	448-15	447-70	447-30	447-15	446-80	446-20
19	447-45	447-70	447-85	448-60	448-10	447-40	448-10	447-75	447-30	446-75	446-80	446-25
20	447-45	447-70	447-70	448-80	448-15	447-40	448-05	447-75	447-35	446-75	447-90	446-35
21	447-45	447-70	447-70	448-90	448-15	447-45	448-15	447-95	447-15	446-70	447-90	446-30
22	447-50	447-75	447-70	448-90	448-25	447-50	448-15	447-75	447-35	446-80	447-80	446-30
23	447-50	447-70	447-65	448-60	448-20	448-15	448-20	448-30	445-30	446-85	447-95	446-35
24	447-55	447-75	447-60	448-20	448-10	448-15	448-20	447-55	447-30	446-75	447-80	446-30
25	447-55	447-75	447-60	448-25	448-00	448-10	448-25	447-65	447-30	446-75	447-05	446-30
26	447-55	447-75	447-55	448-25	448-05	448-30	448-20	447-65	447-35	446-75	447-05	446-30
27	447-55	447-70	447-50	448-30	448-05	448-15	448-20	447-55	447-35	446-80	446-85	446-45
28	447-50	447-75	447-55	448-30	447-85	448-10	448-15	447-65	447-35	447-70	447-05	446-45
29	447-55	.....	447-50	448-30	447-95	448-15	448-10	447-60	447-35	447-70	446-80	446-50
30	447-50	.....	447-50	448-15	447-95	447-85	448-25	447-60	447-30	447-75	446-80	446-30
31	447-60	.....	447-50	.....	447-95	.....	448-20	447-65	.....	446-85	.....	446-30



## WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO—Continued

## RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA

(Elevations refer to D. P. W. Datum—For Sea-level add 611.61 feet Datum)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	446.30	446.00	445.65	445.45	445.55	445.40	445.45	444.95	444.65	444.40		
2	445.30	446.00	445.65	445.40	445.30	445.65	445.45	444.80	444.65	444.40		
3	445.25	446.05	445.65	445.40	445.50	445.40	445.45	445.20	444.65	444.20		
4	445.30	446.00	445.60	445.45	445.55	445.40	445.35	445.25	444.60	444.20		
5	445.35	446.00	445.60	445.45	445.50	446.10	445.35	445.25	444.60	444.80		
6	445.25	446.00	445.60	445.50	445.50	445.55	444.95	445.20	444.60	444.45		
7	445.25	445.75	445.65	445.50	445.55	445.50	444.90	445.35	444.60	444.48		
8	445.25	445.75	445.65	445.40	445.55	445.50		445.30	444.65	444.45		
9	445.30	446.00	445.65	445.40	445.50	445.40	445.65	445.40	444.70	444.20		
10	445.30	446.70	445.60	445.45	445.45	445.40	445.65	445.35	444.70	444.10		
11	445.25	445.75	445.65	445.45	445.45	445.40	445.60	445.20	444.70	444.10		
12	445.30	446.85	445.50	445.55	445.85	445.40	445.65	445.35		444.10		
13	445.35	446.80	445.55	445.40	446.15	445.40	445.15	445.20	444.60	444.20		
14	445.25	446.75	445.60	445.45	445.95	445.60	445.15			444.20		
15	445.25	446.70	445.65	445.45	445.70	445.50	444.05	445.15	444.60	444.25		
16	445.20	446.70	445.50	445.50	445.70	445.50	444.95	445.20	444.60	444.80		
17	445.10	446.85	445.50	445.45	446.10	445.45	444.90	444.70	444.60	444.80		
18	445.10	446.90	445.55	445.50	446.10	445.50		444.75		444.65		
19	445.10	446.85	445.45	445.50	445.80	445.50		444.75		444.40		
20	445.15	446.80	445.45	445.50	445.65	445.45	444.95	444.75		444.40		
21	445.00	446.80	445.30	445.50	445.65	445.40	444.95			444.40		
22	445.15	446.75	445.35	445.50	445.70	445.25	444.90		444.65	444.35		
23	445.00	446.75	445.35	445.50	445.75	445.10	445.10	444.60	444.65	444.35		
24	445.00	446.75	445.35	445.45	445.80	445.10	445.15	444.65	444.60	444.30		
25	445.00	446.75	445.35	445.45	445.80	445.30	445.10	444.70		444.30		
26	445.05	446.60	445.35	445.45	445.75	445.30	445.20	444.75		444.10		
27	445.05	446.60	445.35	445.50	445.75	445.35	445.25	444.75	444.60	444.05		
28	445.10	446.60	445.35	445.50	445.70	445.60	445.20	444.75	444.60	444.05		
29	445.10	446.65	445.35	445.50	445.75	445.45	445.20	444.80	444.40	444.05		
30	445.15		445.40	445.45	445.50	445.50	445.10	444.80	444.70	444.50		
31	445.15		445.40		445.50		445.95	444.80		444.45		
1925												
1	443.40	443.45	443.49	443.45	444.95	444.70	446.45	447.30	447.30	446.45	446.55	447.80
2	443.40	443.45	443.45	443.50	444.75	444.70	446.50	447.40	447.30	446.50	446.60	447.80
3	443.40	443.43	443.45	443.60	445.90	444.80	446.65	447.40	447.35	446.60	446.75	447.80
4	443.40	443.39	443.45	443.66	445.00	444.80	446.65	447.40	447.35	446.60	446.75	447.85
5	443.40	443.39	443.45	443.45	444.85	444.75	446.15	447.45	447.35	446.60	446.80	447.85
6	443.35	443.39	443.50	443.75	444.80	444.75	446.20	447.45	447.20	446.60	446.90	447.80
7	443.35	443.45	443.50	443.75	444.60	445.40	446.20	447.50	447.35	446.90	446.80	447.80
8	443.35	443.39	443.55	443.80	444.55	445.45	446.35	447.50	447.40	446.90	446.80	447.75
9	443.35	443.40	443.55	443.60	444.55	446.70	446.35	447.70	447.40	446.85	446.85	447.75
10	443.20	443.40	443.60	443.55	444.80	446.65	446.40	447.65	447.45	446.85	446.85	447.75
11	443.30	443.45	443.60	443.55	444.60	445.75	446.45	447.65	447.55	446.90	446.70	447.75
12	443.35	443.45	443.60	443.55	444.55	445.60	446.40	447.60	447.60	446.65	446.70	447.70
13	443.35	443.40	443.65	443.60	444.50	445.75	446.45	447.60	447.60	446.60	446.70	447.70
14	443.35	443.40	443.65	443.55	444.50	445.75	446.45	447.40	447.55	446.65	446.75	447.40
15	443.35	443.45	443.65	443.55	444.55	445.70	446.30	447.40	447.55	446.85	446.80	447.40
16	443.34	443.39	443.70	443.40	444.70	445.70	446.30	447.50	447.60	446.90	446.80	447.40
17	443.33	443.35	443.70	443.60	445.40	445.70	446.35	447.60	447.70	446.90	446.85	447.05
18	443.35	443.35	443.73	443.65	444.15	445.75	446.30	447.65	447.40	447.00	446.90	447.00
19	443.35	443.35	443.75	443.55	445.25	445.85	446.20	447.65	447.50	446.90	446.90	447.00
20	443.43	443.35	443.80	443.60	444.30	445.90	446.40	447.70	448.15	446.90	446.95	447.15
21	443.43	443.40	443.80	443.60	444.30	445.85	446.55	447.70	447.30	446.95	446.95	447.15
22	443.40	443.45	443.85	443.80	444.50	445.80	446.50	447.70	447.20	446.95		447.15
23	443.40	443.45	443.85	443.75	444.70	445.80	446.85	447.75	447.25	446.95		447.10
24	443.40	443.45	443.90	443.90	444.45	445.80	446.80	447.20	446.40	447.00	446.95	447.20
25	443.46	443.49	443.95	444.30	444.75	446.40	446.40	447.30	446.40	447.00	446.90	447.20
26	443.35	443.49	443.95	444.60	444.60	446.20	447.40	447.30	446.45	446.60	446.90	447.20
27	443.35	443.49	443.95	444.30	444.80	446.20	447.45	447.35	446.45	446.60	446.90	447.15
28	443.40	443.49	444.00	446.45	444.50	446.20	447.40	447.35	446.50	446.50	446.90	447.15
29	443.43		444.25	446.90	444.65	446.10	447.40	447.40	446.50	446.50	446.95	447.15
30	443.46		444.10	446.85	444.50	446.10	447.40	447.40	446.50	446.50	446.95	447.15
31	443.46		444.20		444.70		447.35	447.40		446.60		447.15

RAINY LAKE INVESTIGATION

WATER LEVELS—RAINY RIVER—RAINY RIVER, ONTARIO—Concluded

RECORDS OF DEPARTMENT OF PUBLIC WORKS, CANADA.

[Elevations refer to D. P. W. Datum—For Sea-level Datum add 611.61 feet]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1	446.05	447.10	447.15	447.40	447.40	447.75	448.35	447.95	448.00	448.15	448.70	448.65
2	446.05	447.10	447.20	447.40	447.40	447.80	448.45	447.90	448.05	448.60	448.00	448.60
3	446.90	447.10	447.20	447.40	447.50	447.75	448.35	447.95	448.00	448.55	448.75	448.60
4	446.90	447.05	447.20	447.40	447.50	447.65	448.30	447.80	448.15	448.55	448.85	448.60
5	446.95	447.05	447.20	447.30	447.50	448.25	448.20	447.75	447.55	448.95	448.55	448.60
6	447.00	447.05	447.20	447.30	447.40	448.90	448.20	447.80	448.00	448.65	448.75	448.50
7	447.00	447.05	447.20	447.40	447.45	448.35	448.25	447.90	448.20	448.55	448.80	448.55
8	447.00	447.05	447.20	447.45	447.45	447.65	448.50	447.90	448.25	448.65	448.90	448.55
9	447.00	447.00	447.15	447.35	447.50	447.70	448.65	448.00	448.15	448.75	448.90	448.50
10	447.00	447.00	447.15	447.35	447.55	447.55	448.70	447.95	448.30	448.65	448.50	448.50
11	447.05	447.05	447.25	447.35	447.55	447.80	448.45	447.75	448.50	448.70	448.50	448.55
12	446.90	447.05	447.25	447.40	447.55	447.95	448.50	447.85	448.05	448.75	448.40	448.55
13	446.90	447.05	447.15	447.45	447.60	448.50	448.45	448.00	447.75	448.80	448.35	449.65
14	446.90	447.00	447.15	447.45	447.65	447.60	448.35	447.85	447.90	448.70	448.40	448.65
15	446.90	447.05	447.15	447.50	447.75	447.65	448.40	447.85	447.95	448.75	449.00	448.65
16	446.85	447.00	447.20	447.50	447.45	447.55	448.45	447.95	447.95	448.85	448.85	448.65
17	446.75	447.05	447.25	447.50	447.45	447.60	448.25	447.80	448.15	448.75	448.85	448.65
18	446.80	447.00	447.25	447.50	447.50	447.85	448.25	447.80	448.25	448.85	448.85	448.65
19	446.90	447.15	447.25	447.50	447.50	447.75	448.35	447.65	448.00	448.70	448.70	448.65
20	446.95	447.15	447.25	447.60	447.60	448.00	448.50	447.80	448.15	448.60	448.50	448.65
21	448.95	447.35	447.25	447.60	447.60	449.15	448.55	447.95	448.60	448.60	448.55	448.60
22	447.10	447.25	447.30	447.65	447.55	449.05	448.20	448.05	448.20	448.75	449.60	448.60
23	447.10	447.25	447.35	447.65	447.75	448.95	448.10	448.30	445.70	448.70	448.60	448.60
24	447.15	447.15	447.65	447.65	447.60	448.85	448.15	447.85	448.70	448.75	448.60	448.55
25	447.15	447.10	447.55	447.50	447.55	448.65	448.20	448.00	448.40	448.70	448.60	448.55
26	447.15	447.15	447.50	447.40	447.70	448.20	448.20	447.95	448.50	448.70	448.55	448.50
27	447.00	447.15	447.55	447.40	447.60	448.35	448.05	447.90	448.00	448.80	449.55	448.55
28	447.00	447.15	447.45	447.35	447.60	448.50	448.15	447.90	447.95	448.90	448.65	448.55
29	447.00	447.00	447.40	447.35	447.55	448.50	448.10	447.95	447.90	449.55	448.65	448.60
30	447.05	447.45	447.40	447.50	447.70	448.40	448.05	447.90	448.40	448.75	449.65	448.60
31		447.45	447.45	447.70	447.70		447.95	447.90		449.10		448.50
1927												
1	448.60	448.45	447.95	447.75	449.95	451.30	451.20	450.55	448.30	448.00	448.95	448.00
2	448.60	448.40	447.95	447.90	450.00	451.30	451.60	449.90	448.65	448.20	447.80	447.95
3	448.60	448.40	448.00	448.10	450.50	451.35		449.80	448.40	448.25	448.05	497.90
4	448.60	448.35	448.00	448.25	450.00	451.30		449.70	448.10	448.30	448.90	
5	448.55	448.35	448.00	448.45	450.55	451.25		449.60	448.40	448.19	448.60	
6	448.60	448.35	448.00	448.45	450.60	451.20		449.55	448.40	448.15		
7	448.55	448.30	448.00	448.50	450.50	451.30		449.50	448.30	448.10		
8	448.60	448.30	448.00	448.45	450.55	451.20		449.30	448.30	448.15		
9	448.55	448.30	448.10	448.45	451.50	451.25		449.40	448.30	447.80		
10	448.55	448.25	448.10	448.45	451.70	451.30	451.05	449.20	448.30	447.90		
11	448.55	448.25	448.10	448.50	451.35	451.25	451.00	449.20	448.30	448.00		448.00
12	448.50	448.30	448.10	448.50	451.35	451.20	450.90	449.20	448.20	448.20		448.00
13	448.50	448.30	448.05	448.65	451.90	451.10	450.95	449.20	448.30	448.20	448.10	448.00
14	448.50	448.30	448.05	448.70	452.00	451.10	450.90	449.20	448.35	448.15	448.25	447.95
15	448.50	448.30	448.10	448.90	451.40	450.90	450.85	449.10	448.30	448.10	447.95	448.00
16	448.45	448.25	448.10	449.35	452.10	450.80	451.10	449.00	448.05	448.05	447.90	448.05
17	448.45	448.25	448.15	449.95	451.60	450.80	451.10	449.25	448.35	447.85	447.95	448.05
18	448.45	448.15	448.15	450.15	451.20	450.80	450.80	448.90	448.00	447.80	448.00	448.00
19	448.45	448.10	447.95	450.60	451.10	450.80	450.75	448.85	448.40	448.00	448.00	448.00
20	448.45	448.10	447.95	450.55	451.90	450.80	450.70	448.65	448.60	448.40	448.00	447.95
21	448.45	448.10	447.90	450.65	451.00	451.10	450.60	448.95	448.15	448.00	448.00	448.00
22	448.45	448.10	447.50	450.60	451.15	451.40	450.70	448.95	448.05	448.05	447.95	448.00
23	448.45	448.10	447.95	450.65	451.10	451.45	450.60	448.55	448.00	448.10	448.00	448.00
24	448.40	448.05	447.99	450.30	451.25	451.45	450.50	448.40	448.30	447.90	448.00	447.95
25	448.40	448.05	447.90	449.90	451.70	451.40	450.45	448.25	448.20	448.00	447.90	447.90
26	448.40	448.05	447.95	449.90	451.70	451.25	450.40	448.25	448.15	448.10	448.00	447.95
27	448.40	448.05	447.85	449.85	451.40	451.15	450.45	448.45	448.05	448.15	448.00	447.95
28	448.40	448.05	447.70	449.90	451.45	451.25	450.55	448.50	447.40	448.00	448.00	447.90
29	448.40	447.65	447.65	449.85	451.50	451.20	450.20	448.35	447.00	447.50	448.00	447.95
30	448.45	447.60	449.95	451.35	451.20	450.00	448.35	447.95	447.90	448.00	448.00	448.00
31	448.45	447.65	449.95	451.50	451.50	450.65	448.45	448.45	448.00	448.00	448.00	448.00

## WATER LEVELS—RAINY RIVER—NEAR BAUDETTE, MINN.

## RECORDS OF MANITOBA HYDROGRAPHIC SURVEY

1912	August		September		October		November		December	
	Gauge height	D.P.W. datum	Gauge height	D.P.W. datum	Gauge height	D.P.W. datum	Gauge height	D.P.W. datum	Gauge height	D.P.W. datum
1.....			1-85	447-09	2-87	448-11	3-15	448-39		
2.....			1-99	447-23	2-97	448-21	3-02	448-26		
3.....			1-92	447-16	3-00	448-24	3-00	448-24		
4.....			1-99	447-23	2-89	448-13	3-24	448-48		
5.....			1-99	447-23	2-86	448-10	3-04	448-28		
6.....			2-00	447-24	3-19	448-43	2-98	448-22		
7.....			2-04	447-28	2-92	448-16	3-01	448-25		
8.....			2-22	447-45	3-00	448-24	3-79	449-03	2-98	448-22
9.....			2-28	447-52	3-21	448-45	2-09	448-23		
10.....			2-27	447-51	3-03	448-32	3-13	448-37		
11.....			2-03	447-27	3-09	448-33	3-32	448-56		
12.....			2-22	447-46	3-14	448-38	3-31	448-55		
13.....			2-28	447-52	3-01	448-25	3-10	448-43		
14.....			2-24	447-48	3-22	448-46	3-08	448-32		
15.....			2-30	447-54	3-06	448-30	3-17	448-41	3-00	448-24
16.....			2-30	447-54	3-04	448-28	3-32	448-56		
17.....			2-37	447-61	3-05	448-29	3-30	448-54		
18.....			2-31	447-55	3-49	448-73	3-29	448-53		
19.....	1-85	447-09	2-30	447-54	3-02	448-26	3-30	448-54		
20.....	1-83	447-07	2-29	447-53	2-86	448-10	2-79	448-03		
21.....	1-82	447-06	2-28	447-52	3-24	448-48	3-31	448-55		
22.....	2-24	447-48	2-31	447-55	3-01	448-25	3-13	448-37	3-00	448-24
23.....	1-76	447-00	3-05	448-29	2-51	447-75	3-35	448-59		
24.....	1-92	447-16	3-17	448-41	3-00	448-24	3-21	448-45		
25.....	1-93	447-17	3-91	449-15	3-03	448-27	3-30	448-54		
26.....	2-08	447-32	3-01	448-25	3-13	448-37	3-30	448-54		
27.....	1-83	447-07	3-00	448-24	2-99	448-23	3-35	448-59		
28.....	2-05	447-29	2-99	448-23	3-16	448-40				
29.....	1-83	447-07	2-91	448-15	4-32	449-56			3-00	448-24
30.....	1-94	447-18	2-88	448-12	3-41	448-65				
31.....	1-83	447-07			3-28	448-52				
1913	January		February		March		April		May	
1.....										
2.....			2-97	448-21						
3.....										
4.....										
5.....	3-00	448-24								
6.....										
7.....										
8.....										
9.....			2-97	448-21						
10.....										
11.....										
12.....	3-00	448-24								
13.....										
14.....										
15.....										
16.....										
17.....										
18.....										
19.....	2-96	448-20								
20.....										
21.....										
22.....										
23.....										
24.....										
25.....										
26.....	2-98	448-22								
27.....										
28.....										
29.....										
30.....										
31.....										

Zero of gauge, 445-24; Public Works (Canada) Datum, Aug. 16, 1912.

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

LAKE OF THE WOODS—STORAGE, OUTFLOW AND INFLOW

Supply factors for the Lake of the Woods as set forth in the following tables have been compiled by the Lake of the Woods Control Board from records secured at the lake outlets by the Dominion Water Power and Reclamation Service, and from records at Warroad by the United States Corps of Engineers. The following description outlines the period of record and the factors entering into the compilation.

*Records Available.*—October 1, 1892, to September 30, 1925. Records up to December 31, 1915, have been published in the final report of the International Joint Commission on the Levels of the Lake of the Woods.

*Storage.*—Lake of the Woods area, including that of Shoal lake, taken as 1,485 square miles. Changes in storage based on daily gauge records at Warroad, Kenora and Keewatin from which wind effects have been graphically eliminated.

*Outflow.*—Daily records of total outflow compiled by the addition of the discharge through the eastern outlet and the discharge of the Winnipeg river at North Tunnel island. As the discharge relation at this station is subject to the effects of pondage above and below the section following a change in outflow from Lake of the Woods, the daily discharges are based on frequent meterings at the section together with a summation of the discharges through the individual lake outlets.

*Inflows.*—Ten-day and monthly-mean inflows computed from the mean outflow with the addition or subtraction of flow equivalent to the recorded change in storage.

*Regulation.*—Lake levels and outflow regulated through the operation of control works at the lake outlets. Inflow to Lake of the Woods from Rainy lake controlled by dams at the outlets of Rainy and Namakan lakes.

RELATION BETWEEN LAKE STAGE AND OUTFLOW—ALL OUTLETS—LAKE OF THE WOODS  
IN STATE OF NATURE

Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.	Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.	Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.	Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.
1052-10	5500		1055-10	11130		1058-10	20210		1061-10	36505	
52-20	5680	130	55-20	11370	240	58-20	20610	410	61-20	37175	670
52-30	5770	140	55-30	11610	240	53-30	21020	410	61-30	37850	675
52-40	5910	140	55-40	11850	240	58-40	21440	420	61-40	38530	680
52-50	6060	150	55-50	12100	250	58-50	21870	430	61-50	39220	690
		150			250			440			690
52-60	6210		55-60	12350		58-60	22310		61-60	39910	
52-70	6370	160	55-70	12610	260	58-70	22760	450	61-70	40610	700
52-80	6530	160	55-80	12870	260	58-80	23220	460	61-80	41320	710
52-90	6690	160	55-90	13130	260	58-90	23700	480	61-90	42040	720
53-00	6850	165	56-00	13395	265	59-00	24190	490	62-00	42760	720
		165			265			500			720
53-10	7015		56-10	13660		59-10	24690		62-10	43480	
53-20	7185	170	56-20	13930	270	59-20	25190	500	62-20	44210	730
53-30	7365	180	56-30	14210	280	59-30	25700	510	62-30	44940	730
53-40	7545	180	56-40	14490	280	59-40	26220	520	62-40	45670	730
53-50	7725	180	56-50	14770	280	59-50	26750	530	62-50	46400	730
		180			290			540			.....
53-60	7905		56-60	15060		59-60	27290				
53-70	8085	180	56-70	15350	290	59-70	27840	550			
53-80	8275	190	56-80	15650	300	59-80	28400	560			
53-90	8485	210	56-90	15950	300	59-90	28980	580			
54-00	8695	210	57-00	16270	320	60-00	29570	590			
		210			320			590			
54-10	8905		57-10	16590		60-10	30160				
54-20	9115	210	57-20	16920	330	60-20	30760	600			
54-30	9325	210	57-30	17250	330	60-30	31380	620			
54-40	9535	215	57-40	17590	340	60-40	32000	620			
54-50	9750	220	57-50	17940	350	60-50	32620	620			
		220			365			620			
54-60	9970		57-60	18305		60-60	33240				
54-70	10195	225	57-70	18675	370	60-70	33870	630			
54-80	10425	230	57-80	19045	370	60-80	34510	640			
54-90	10655	235	57-90	19430	385	60-90	35165	655			
55-00	10890	240	58-00	19820	390	61-00	35835	670			
		240			390			670			

RELATION BETWEEN LAKE STAGE AND OUTFLOW—EASTERN OUTLET—LAKE OF THE WOODS  
IN STATE OF NATURE

Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.	Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.	Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.	Lake level Sea-level datum	Dis- charge c.f.s.	Differ- ence c.f.s.
1052-10	400	20	1055-10	1190	40	1058-10	2530	50	1061-10	4710	110
52-20	420	20	55-20	1230	40	58-20	2580	50	61-20	4820	110
52-30	440	20	55-30	1270	40	58-30	2630	50	61-30	4930	110
52-40	460	20	55-40	1310	40	58-40	2680	60	61-40	5040	110
52-50	480	20	55-50	1350	40	58-50	2740	60	61-50	5150	120
52-60	500	20	55-60	1390	40	58-60	2800	60	61-60	5270	120
52-70	520	20	55-70	1430	40	58-70	2860	60	61-70	5390	120
52-80	540	20	55-80	1470	40	58-80	2920	60	61-80	5510	120
52-90	560	20	55-90	1510	40	58-90	2980	60	61-90	5630	120
53-00	580	20	56-00	1550	40	59-00	3040	60	62-00	5750	130
53-10	600	20	56-10	1590	40	59-10	3100	60	62-10	5880	130
53-20	620	20	56-20	1630	40	59-20	3160	60	62-20	6010	130
53-30	640	20	56-30	1670	40	59-30	3220	60	62-30	6140	130
53-40	660	30	56-40	1710	40	59-40	3280	70	62-40	6270	130
53-50	690	30	56-50	1750	40	59-50	3350	70	62-50	6400	130
53-60	720	30	56-60	1790	40	59-60	3420	70			
53-70	750	30	56-70	1830	40	59-70	3490	70			
53-80	780	30	56-80	1880	50	59-80	3560	70			
53-90	810	30	56-90	1930	50	59-90	3630	70			
54-00	840	30	57-00	1980	50	60-00	3700	80			
54-10	870	30	57-10	2030	50	60-10	3780	80			
54-20	900	30	57-20	2080	50	60-20	3860	90			
54-30	930	30	57-30	2130	50	60-30	3950	90			
54-40	960	30	57-40	2180	50	60-40	4040	90			
54-50	990	30	57-50	2230	50	60-50	4130	90			
54-60	1020	30	57-60	2280	50	60-60	4220	90			
54-70	1050	30	57-70	2330	50	60-70	4310	95			
54-80	1080	30	57-80	2380	50	60-80	4405	100			
54-90	1110	40	57-90	2430	50	60-90	4505	100			
55-00	1150	40	58-00	2480	50	61-00	4605	105			

Reprinted from the report of the Consulting Engineers on the Lake of the Woods levels.

WATER LEVELS—LAKE OF THE WOODS—WARROD, MINN.

RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1999												
1.	1059-80	1059-60	1059-40	1059-10	1058-80	1059-50	1059-80	1059-80	1059-70	1060-00	1060-40	1060-30
2.	59-80	59-60	59-40	59-10	58-80	59-50	60-00	59-90	59-90	60-00	60-30	60-40
3.	59-80	59-60	59-30	59-10	58-80	59-50	59-80	59-90	60-00	60-00	60-10	60-30
4.	59-80	59-60	59-30	59-10	58-80	59-50	59-80	59-90	60-00	60-00	60-40	60-30
5.	59-80	59-60	59-30	59-00	58-80	59-60	59-70	59-90	60-40	59-90	60-40	60-40
6.	59-80	59-60	59-30	59-00	58-80	59-90	59-80	60-10	59-90	59-90	60-40	60-40
7.	59-80	59-60	59-30	59-00	58-80	59-60	59-75	60-00	60-40	59-90	60-10	60-50
8.	59-80	59-60	59-30	59-00	58-80	59-50	59-80	60-00	59-90	59-80	60-40	60-50
9.	59-80	59-60	59-30	59-00	58-90	59-60	59-30	60-00	60-00	60-30	60-10	60-50
10.	59-80	59-50	59-30	59-00	58-90	59-60	59-90	60-10	59-90	60-40	60-20	60-50
11.	59-80	59-50	59-20	59-00	59-00	59-45	59-80	60-05	59-90	60-50	60-10	60-50
12.	59-80	59-50	59-20	59-00	59-00	59-40	59-80	60-00	59-70	60-20	60-30	60-50
13.	59-80	59-50	59-20	59-00	59-00	59-95	59-90	59-90	59-80	59-50	60-60	60-60
14.	59-80	59-50	59-20	59-00	59-00	59-50	60-05	60-00	59-80	60-10	62-20	60-60
15.	59-80	59-50	59-20	59-00	59-10	59-20	59-70	60-00	59-80	60-00	60-40	60-60
16.	59-70	59-50	59-20	59-00	59-30	59-40	59-80	60-00	60-00	60-00	60-40	60-60
17.	59-70	59-50	59-20	59-00	59-40	59-60	59-60	59-80	60-00	60-10	60-30	60-60
18.	59-70	59-50	59-20	58-90	59-30	59-50	59-90	59-70	59-70	60-10	60-30	60-60
19.	59-70	59-50	59-20	58-90	59-40	59-20	60-30	59-80	59-70	59-90	60-30	60-60
20.	59-70	59-50	59-20	58-90	59-40	59-60	59-90	59-80	59-80	60-20	60-20	60-60
21.	59-70	59-40	59-20	58-90	59-40	59-60	59-90	59-90	60-00	60-10	60-30	60-60
22.	59-70	59-40	59-20	58-90	59-50	59-50	60-00	60-10	60-00	60-20	60-40	60-70
23.	59-70	59-40	59-20	58-90	59-50	59-50	59-90	60-00	59-90	60-20	60-40	60-70
24.	59-70	59-40	59-10	58-90	59-50	59-40	59-90	60-30	60-10	60-00	60-40	60-70
25.	59-70	59-40	59-10	58-90	59-50	59-70	59-80	60-10	60-10	60-10	60-30	60-70
26.	59-70	59-40	59-10	58-90	59-50	59-90	59-80	60-10	59-80	60-10	60-30	60-70
27.	59-70	59-40	59-10	58-80	59-50	59-80	59-80	59-80	59-90	60-30	60-20	60-70
28.	59-70	59-40	59-10	58-80	59-50	59-80	59-60	59-90	60-00	60-10	60-10	60-70
29.	59-70		59-10	58-80	59-50	59-40	59-60	60-10	60-20	60-20	60-10	60-70
30.	59-70		59-10	58-80	59-80	59-90	59-80	59-90	60-10	60-10	60-40	60-70
31.	59-70		59-10		59-70		59-95	60-10		60-30		60-70

WATER LEVELS—LAKE OF THE WOODS—WARROAD, MINN.—Continued

RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910												
1.	1060.70	1060.80	1060.70	1061.10	1061.50	1061.00	1060.10	1059.60	1059.20	1058.60	1058.10	1058.00
2.	60.70	60.80	60.70	61.20	61.60	61.10	60.50	59.40	59.10	58.60	58.30	58.00
3.	60.70	60.80	60.70	61.20	61.60	60.90	60.50	59.60	59.00	58.50	58.10	58.00
4.	60.70	60.80	60.70	61.10	61.50	60.80	60.20	59.60	59.10	58.30	57.50	58.00
5.	60.70	60.80	60.70	61.20	61.50	60.90	60.20	59.50	59.10	57.60	58.00	58.00
6.	60.70	60.80	60.60	61.20	61.50	60.90	60.10	59.50	59.00	58.40	58.10	58.00
7.	60.70	60.80	60.60	61.20	61.40	60.90	60.30	59.40	59.00	58.50	58.20	57.90
8.	60.80	60.80	60.60	61.20	61.40	60.70	60.10	59.40	58.80	58.80	58.10	57.90
9.	60.80	60.80	60.60	61.20	61.30	60.90	60.20	59.50	58.60	58.60	58.00	57.90
10.	60.80	60.70	60.60	61.80	61.40	60.80	60.00	59.50	58.60	58.40	57.90	57.90
11.	60.80	60.70	60.60	61.70	61.40	60.80	60.10	59.40	59.00	58.60	58.00	57.90
12.	60.80	60.70	60.60	61.20	61.30	60.70	60.00	59.40	58.70	58.80	58.10	57.90
13.	60.80	60.70	60.60	61.30	61.30	60.70	59.70	59.50	58.50	58.50	58.10	57.90
14.	60.80	60.70	60.60	61.30	61.40	60.60	60.00	59.40	58.50	58.30	58.10	57.90
15.	60.80	60.70	60.60	61.20	61.20	60.60	59.90	59.00	58.80	58.10	58.10	57.90
16.	60.80	60.70	60.60	61.30	61.40	60.60	60.50	59.30	58.60	58.40	58.00	57.90
17.	60.80	60.70	60.60	61.90	61.30	60.70	59.90	59.40	58.80	58.40	58.10	57.90
18.	60.80	60.70	60.60	61.60	61.40	60.70	59.80	59.30	59.00	58.10	58.00	57.90
19.	60.80	60.70	60.60	61.40	61.30	60.70	59.80	59.00	58.60	58.30	58.10	57.90
20.	60.80	60.70	60.60	61.50	61.30	60.60	59.70	59.30	58.70	58.40	58.10	57.90
21.	60.80	60.70	60.60	61.30	61.20	60.60	59.70	59.30	58.90	58.20	58.10	57.90
22.	60.80	60.70	60.70	61.50	61.10	60.60	59.80	59.30	58.70	58.30	58.00	57.90
23.	60.80	60.70	60.70	62.00	61.00	60.70	59.80	59.30	59.00	58.10	58.00	57.90
24.	60.80	60.70	60.70	61.50	61.00	60.60	59.70	59.40	58.60	58.20	58.00	57.90
25.	60.80	60.70	60.80	61.60	61.10	60.70	59.80	59.30	58.90	58.10	58.00	57.90
26.	60.80	60.70	60.80	61.50	61.00	60.50	59.60	59.10	58.80	58.30	58.10	57.80
27.	60.80	60.70	60.90	61.90	60.60	60.50	59.70	59.30	58.60	58.30	58.00	57.80
28.	60.80	60.70	60.80	61.60	60.70	60.40	59.70	59.30	58.50	58.30	58.00	57.80
29.	60.80	60.70	61.10	61.60	60.70	60.40	59.70	58.90	58.50	58.00	58.00	57.80
30.	60.80	60.70	61.00	61.50	61.00	60.30	59.50	57.10	58.60	58.00	58.00	57.80
31.	60.80	60.70	61.10	61.00	61.00	59.50	59.50	58.90	58.20	58.20	58.00	57.80
1911												
1.	1057.80	1057.40	1057.10	1056.80	1057.10	1056.85	1057.15	1056.88	1056.65	1056.55	1056.80	.....
2.	57.80	57.40	57.10	56.80	56.95	57.25	57.15	56.65	56.70	56.50	56.40	.....
3.	57.80	57.40	57.10	56.80	56.95	57.10	57.20	56.70	56.65	56.50	56.00	.....
4.	57.70	57.40	57.10	56.80	56.90	57.15	57.20	56.65	56.85	56.85	56.40	.....
5.	57.70	57.40	57.10	56.80	56.75	56.85	57.35	56.75	56.75	57.05	56.50	.....
6.	57.70	57.40	57.10	56.80	56.80	56.85	57.15	56.70	56.80	56.60	56.60	.....
7.	57.70	57.40	57.10	56.80	56.80	57.15	57.10	56.80	56.70	56.55	57.00	.....
8.	57.70	57.40	57.10	56.80	56.80	57.40	57.25	56.80	56.60	56.55	57.10	.....
9.	57.70	57.40	57.10	56.80	56.95	57.15	57.15	56.80	56.60	56.50	57.00	.....
10.	57.70	57.40	57.10	56.80	56.95	57.15	56.85	56.80	56.50	56.50	56.80	.....
11.	57.70	57.40	57.10	56.80	56.80	57.25	57.25	56.75	56.60	56.50	57.00	.....
12.	57.70	57.40	57.00	56.80	56.80	57.30	57.30	56.60	56.45	56.70	57.00	.....
13.	57.70	57.40	57.00	56.80	56.80	57.25	57.15	56.65	56.40	56.65	56.90	.....
14.	57.60	57.40	57.00	56.80	57.10	57.20	56.90	56.70	56.30	56.55	56.90	.....
15.	57.60	57.40	57.00	56.80	57.10	57.20	57.15	56.80	56.35	56.60	56.90	.....
16.	57.60	57.40	57.00	56.90	57.10	57.30	57.10	56.80	56.45	56.60	57.00	.....
17.	57.60	57.40	57.00	56.90	56.90	57.30	56.95	56.80	56.55	56.55	57.00	.....
18.	57.60	57.40	57.00	56.90	57.00	57.30	57.00	56.80	56.10	56.50	56.90	.....
19.	57.60	57.40	57.00	56.90	56.90	57.25	56.95	56.60	56.45	56.80	56.90	.....
20.	57.50	57.30	56.90	56.90	56.90	57.10	56.93	56.70	56.35	56.55	56.90	.....
21.	57.50	57.30	56.90	56.90	56.95	57.20	56.95	56.95	56.45	56.55	56.90	.....
22.	57.50	57.30	56.90	56.90	57.00	57.60	56.85	56.80	56.85	56.55	56.90	.....
23.	57.50	57.30	56.90	56.90	57.00	57.60	57.15	56.75	56.95	56.05	56.90	.....
24.	57.50	57.30	56.90	56.90	57.00	57.35	56.93	56.50	56.50	56.60	56.90	.....
25.	57.50	57.20	56.90	56.90	57.00	57.25	56.70	56.60	56.50	56.55	56.90	.....
26.	57.50	57.20	56.90	56.90	56.40	57.25	56.75	56.70	56.45	56.55	57.00	.....
27.	57.40	57.20	56.90	56.90	56.45	57.40	56.70	57.05	56.60	56.60	57.00	.....
28.	57.40	57.20	56.90	56.90	56.40	57.30	56.68	56.85	56.40	56.60	56.90	.....
29.	57.40	57.20	56.90	56.90	56.95	57.25	56.70	56.60	56.50	56.50	56.90	.....
30.	57.40	57.20	56.90	57.20	57.05	57.20	56.90	56.45	56.45	57.05	56.90	.....
31.	57.40	57.20	56.90	56.90	56.90	56.90	56.83	56.60	56.60	56.75	56.90	.....

## WATER LEVELS—LAKE OF THE WOODS—WARROAD, MINN.—Continued

## RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1.					1057-75	1058-55	1058-80	1059-40	1059-57	1060-45	1060-75	1060-70
2.					57-85	58-60	58-75	59-45	59-60	60-45	60-80	60-70
3.					57-85	58-70	58-80	59-40	59-55	60-45	60-70	60-70
4.					57-95	58-60	58-95	59-40	59-75	60-55	60-70	60-70
5.					57-95	58-60	58-80	59-35	59-77	60-65	60-70	60-70
6.					57-95	58-80	58-90	59-40	59-33	60-70	60-80	60-70
7.					57-95	58-70	59-05	59-55	59-63	60-45	60-80	60-70
8.					58-05	58-75	58-95	59-55	59-90	60-65	60-75	60-60
9.					58-05	58-60	59-10	59-60	59-75	61-05	60-85	60-60
10.					58-20	58-65	59-05	59-60	59-77	60-75	60-80	60-60
11.					58-30	58-80	58-95	59-55	59-60	60-75	60-95	60-60
12.					58-35	58-75	59-05	59-35	59-70	60-60	60-85	60-60
13.					58-25	58-75	59-05	59-30	59-87	60-60	60-90	60-60
14.					58-15	58-75	59-05	59-60	60-05	60-60	60-80	60-60
15.					58-30	59-00	59-15	59-55	60-15	60-60	60-75	60-60
16.					58-20	58-90	58-85	59-60	59-95	60-60	60-75	60-60
17.					58-35	58-90	59-10	59-70	59-95	60-75	60-80	60-60
18.					58-35	58-75	59-15	59-60	59-90	60-45	60-60	60-60
19.					58-25	58-75	58-85	59-57	59-95	60-70	60-75	60-60
20.					58-30	58-80	59-05	59-50	60-15	60-75	60-55	60-60
21.					58-35	58-75	59-05	59-37	60-10	60-80	60-70	60-60
22.**					58-40	58-65	59-10	59-47	59-87	60-80	60-70	60-60
23.					58-40	58-70	59-25	59-55	60-27	60-70	60-80	60-60
24.					58-40	58-70	59-00	59-62	60-90	60-65	60-70	60-60
25.					58-35	58-85	59-35	59-72	60-67	60-60	60-75	60-60
26.					58-45	58-75	59-30	59-62	60-25	60-80	60-80	60-60
27.					58-45	58-65	59-40	59-57	60-27	60-65	60-75	60-60
28.					1057-65	58-85	58-70	59-30	59-65	60-37	61-35	60-80
29.					57-65	58-45	59-05	59-30	59-62	60-15	61-10	60-70
30.					57-65	58-50	59-65	59-60	60-45	60-70	60-80	60-60
31.					58-50	59-00	59-40	59-60	60-80	60-80	60-80	60-60
1913												
1.	1060-60	1060-50	1060-45	1060-55	1061-05	1061-15	1060-90	1060-92	1060-55	1060-00	1060-10	1060-10
2.	60-60	60-50	60-45	60-55	61-10	61-10	60-80	60-97	60-67	60-00	60-15	60-10
3.	60-50	60-40	60-45	60-55	61-15	61-15	60-55	61-00	60-80	60-10	60-00	60-00
4.	60-60	60-40	60-45	60-55	61-13	61-05	60-95	60-97	60-57	60-40	59-95	59-95
5.	60-50	60-40	60-45	60-60	61-10	61-15	60-80	61-15	60-60	60-50	60-05	60-10
6.	60-50	60-40	60-45	60-60	61-15	61-45	60-60	61-00	60-60	60-20	60-15	60-15
7.	60-50	60-40	60-45	60-60	61-15	61-20	60-85	60-90	60-59	59-65	60-70	60-15
8.	60-50	60-40	60-45	60-60	61-20	61-20	60-30	60-75	60-34	60-20	60-20	59-90
9.	60-50	60-40	60-45	60-65	61-20	61-15	60-85	61-10	60-27	60-35	60-45	60-10
10.	60-50	60-40	60-45	60-65	61-15	61-00	60-80	61-15	60-43	59-95	60-25	60-20
11.	60-50	60-40	60-45	60-65	61-10	61-00	60-80	60-90	60-35	59-65	60-10	60-10
12.	60-50	60-40	60-45	60-65	61-15	61-05	60-95	60-30	60-45	60-10	59-10	60-20
13.	60-50	60-40	60-50	60-65	61-20	61-10	60-95	60-85	60-55	60-15	59-90	60-10
14.	60-50	60-40	60-50	60-70	61-20	61-10	61-05	60-85	60-30	60-05	60-10	60-10
15.	60-50	60-40	60-45	60-70	61-20	61-05	61-00	61-25	60-30	60-10	60-05	60-20
16.	60-50	60-40	60-45	60-70	61-20	61-10	60-95	60-92	60-35	60-25	60-00	60-15
17.	60-50	60-40	60-50	60-70	61-25	61-15	60-95	61-00	60-30	60-15	60-10	60-10
18.	60-50	60-40	60-50	60-80	61-25	61-15	60-85	61-05	60-20	60-15	60-20	60-10
19.	60-50	60-40	60-50	60-90	61-20	61-00	61-10	60-97	60-15	60-30	59-95	60-10
20.	60-50	60-40	60-50	60-90	61-25	61-05	61-15	60-77	60-40	60-40	60-20	60-10
21.	60-50	60-40	60-50	60-90	61-30	61-00	61-10	60-80	60-45	60-15	60-05	60-10
22.	60-50	60-40	60-50	61-00	61-20	60-90	61-08	60-85	60-20	60-05	60-15	60-20
23.	60-50	60-40	60-50	61-00	61-15	60-65	61-20	60-93	60-17	60-15	59-80	60-15
24.	60-50	60-40	60-50	61-00	61-30	60-90	61-05	60-89	60-15	60-25	60-15	60-10
25.	60-50	60-40	60-50	61-00	61-15	60-77	60-90	60-57	60-05	60-25	60-20	60-10
26.	60-50	60-40	60-50	61-05	61-10	61-00	61-10	60-70	60-05	60-10	60-30	60-10
27.	60-50	60-40	60-50	61-10	61-20	61-30	61-07	60-75	59-90	60-15	60-10	60-10
28.	60-50	60-40	60-50	61-10	61-20	60-85	61-05	60-50	59-95	60-50	60-20	60-10
29.	60-50	60-40	60-50	61-10	61-25	60-60	61-10	60-70	60-20	60-25	60-05	60-10
30.	60-50	60-40	60-50	61-10	61-15	60-75	61-00	60-63	59-97	60-15	60-20	60-10
31.	60-50	60-40	60-50	61-05	61-05	60-75	60-87	61-00	60-80	59-80	60-10	60-10

NOTE.—Gauge heights from December 1, 1911, to April 27, 1912, are considered unreliable on account of instability of gauge and are not reduced to sea-level datum. (Engrs.)

\*Moved to Zippel, Minn. To July 23, 1912, at Zippel. (R.B.) (S.).

<sup>1</sup>Gauge at Warroad, Minn.

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE OF THE WOODS—WARROD, MINN.—Continued

RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1	1060-10	1060-10	1060-10	1060-01	1060-26	1061-06	1061-34	1061-09	1060-33	1060-41	1060-78	1060-58
2	60-10	60-10	60-10	60-01	60-28	60-96	61-21	61-10	60-21	60-45	60-75	60-78
3	60-10	60-10	60-10	60-01	60-40	61-31	61-26	60-84	60-29	60-51	60-56	60-88
4	60-10	60-10	60-10	60-02	60-41	61-61	61-31	60-81	60-42	60-49	60-48	60-85
5	60-10	60-10	60-10	60-02	60-45	61-16	61-22	60-89	60-63	60-50	60-85	60-26
6	60-10	60-10	60-10	60-01	60-59	61-06	61-07	60-86	60-51	60-56	60-81	60-88
7	60-20	60-10	60-10	60-01	60-54	61-09	61-28	60-96	60-47	60-59	60-53	60-88
8	60-10	60-10	60-10	60-01	60-52	61-16	61-05	60-87	60-48	60-52	60-58	60-90
9	60-10	60-10	60-10	60-01	60-61	61-21	61-11	60-75	60-30	60-56	60-81	60-88
10	60-10	60-10	60-10	59-96	60-97	61-24	61-32	60-94	60-27	60-51	60-60	60-89
11	60-10	60-10	60-10	59-99	60-71	61-43	61-41	60-72	60-39	60-56	60-85	60-84
12	60-10	60-10	60-10	59-96	60-76	61-48	61-46	60-61	60-28	60-56	60-88	60-78
13	60-10	60-10	60-10	60-01	61-01	61-55	61-36	60-71	60-31	60-67	60-71	60-78
14	60-10	60-10	60-10	59-95	60-93	61-55	61-27	60-65	60-37	60-33	60-96	60-82
15	60-10	60-10	60-00	59-95	60-86	61-51	61-21	60-74	60-28	60-58	60-73	60-81
16	60-10	60-10	60-00	60-01	60-71	61-36	60-94	60-63	60-48	60-55	60-48	60-81
17	60-10	60-10	60-00	60-01	60-46	61-38	61-30	60-64	60-51	60-69	60-58	60-82
18	60-10	60-10	60-00	60-06	60-67	61-82	61-21	60-61	60-62	60-63	60-74	60-81
19	60-10	60-10	60-05	60-21	60-81	61-48	61-24	60-63	60-42	60-61	60-80	60-80
20	60-10	60-10	60-05	60-13	60-81	61-34	61-24	60-53	60-45	60-61	60-75	60-83
21	60-10	60-10	60-00	60-09	60-87	61-53	61-21	60-58	60-54	60-78	60-71	60-83
22	60-10	60-10	60-00	60-13	60-91	61-34	61-29	60-46	60-55	60-66	60-78	60-80
23	60-10	60-15	60-00	60-18	60-94	61-22	61-15	60-81	60-50	60-83	60-83	60-80
24	60-10	60-15	60-00	60-21	60-88	61-26	61-19	60-51	60-60	60-55	60-78	60-83
25	60-10	60-15	60-00	60-21	61-06	61-42	61-17	61-03	60-52	60-76	60-74	60-81
26	60-10	60-10	60-00	60-23	60-81	61-61	61-18	60-56	60-60	60-78	60-88	60-85
27	60-10	60-10	60-00	60-21	60-98	62-11	61-27	60-51	60-63	60-33	60-81	60-85
28	60-10	60-10	60-00	60-21	61-06	61-40	61-27	60-36	60-52	60-68	60-81	60-86
29	60-10	60-10	60-00	60-23	60-96	61-28	61-13	60-31	60-51	60-69	60-79	60-80
30	60-10	60-10	60-00	60-29	60-91	61-24	61-22	60-42	60-46	60-70	60-81	60-81
31	60-10	60-10	60-00	61-08	61-08	61-17	61-17	60-41	60-41	60-63	60-81	60-86
1915												
1	1060-80	1060-88	1060-83	1060-75	1061-10	1061-22	1061-69	1061-78	1060-71	1060-31	1060-12	1060-23
2	60-83	60-88	60-84	60-78	60-35	61-17	61-78	61-69	60-65	60-23	60-27	60-28
3	60-83	60-88	60-84	60-73	61-23	61-15	61-87	61-43	60-60	60-50	60-24	60-28
4	60-86	60-87	60-84	60-82	60-98	61-13	62-07	61-41	60-63	60-63	60-18	60-28
5	60-80	60-88	60-87	60-83	60-59	60-97	61-89	61-33	60-54	60-17	60-06	60-23
6	60-83	60-87	60-86	60-83	61-03	60-98	61-89	61-25	60-63	60-73	60-21	60-33
7	60-86	60-86	60-85	60-85	61-09	61-14	61-93	61-28	60-58	61-05	60-49	60-18
8	60-81	60-85	60-84	60-88	61-13	61-48	61-83	61-25	60-31	60-51	59-98	60-28
9	60-83	60-89	60-79	60-86	60-93	61-06	61-89	61-23	60-47	60-73	60-38	60-33
10	60-85	60-86	60-78	60-79	61-08	61-18	61-85	61-29	60-40	60-28	60-33	60-28
11	60-86	60-86	60-80	60-83	61-03	61-12	61-63	61-10	60-48	60-41	59-78	60-28
12	60-89	60-88	60-78	60-88	61-10	61-34	61-79	61-04	60-41	60-25	59-58	60-28
13	60-81	60-88	60-78	60-88	61-19	61-13	61-81	61-03	60-48	60-33	60-08	60-28
14	60-84	60-84	60-78	60-86	61-23	60-98	62-09	61-09	60-38	60-35	60-26	60-28
15	60-86	60-85	60-78	60-88	61-98	61-10	61-89	61-07	60-17	60-28	60-30	60-32
16	60-86	60-89	60-78	60-86	61-33	61-30	61-55	61-39	60-33	60-36	60-32	60-33
17	60-80	60-92	60-78	60-87	61-53	61-28	61-82	60-26	60-29	60-37	60-28	60-28
18	60-83	60-89	60-79	60-88	61-33	61-33	61-95	60-91	60-43	60-28	60-24	60-31
19	60-83	60-89	60-79	60-88	61-30	61-32	61-84	60-89	60-35	60-22	60-33	60-29
20	60-87	60-89	60-79	60-88	61-28	61-23	61-83	60-85	60-98	60-18	60-27	60-35
21	60-88	60-89	60-79	60-88	61-38	61-13	61-80	60-86	60-30	60-23	60-23	60-33
22	60-89	60-91	60-79	60-88	61-14	61-45	61-50	60-85	60-18	60-48	60-29	60-36
23	60-86	60-89	60-78	60-90	61-21	61-32	61-85	60-68	60-44	60-61	60-25	60-29
24	60-88	60-86	60-78	60-92	61-28	61-39	61-76	60-75	60-43	60-42	60-28	60-35
25	60-86	60-89	60-78	60-96	61-43	61-73	61-68	60-76	60-50	59-55	60-29	60-32
26	60-85	60-89	60-76	60-98	61-25	61-53	61-65	60-58	60-61	60-18	60-33	60-35
27	60-93	60-87	60-76	60-98	61-18	61-62	61-68	60-50	60-33	60-15	60-33	60-32
28	60-88	60-84	60-74	60-78	61-23	61-65	61-53	60-68	60-23	60-23	60-21	60-32
29	60-83	60-89	60-78	60-98	61-23	61-68	61-50	60-81	60-27	60-11	60-19	60-38
30	60-89	60-89	60-73	61-08	61-21	61-75	61-57	60-95	60-67	60-48	60-24	60-36
31	60-83	60-89	60-74	61-08	61-20	61-17	61-60	60-61	60-41	60-11	60-24	60-33



## WATER LEVELS—LAKE OF THE WOODS—WARROD, MINN.—Continued

## RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1916												
1.....	1060-37	1060-48	1060-37	1060-19	1061-00	1063-34	1064-00	1063-61	1062-27	1061-34	1060-78	1060-28
2.....	60-27	60-52	60-37	60-18	61-94	63-39	64-06	63-52	62-29	61-72	60-64	60-32
3.....	60-37	60-47	60-28	60-27	61-96	63-37	64-12	63-53	62-42	61-58	60-76	60-25
4.....	60-36	60-52	60-29	60-18	61-94	63-52	64-26	63-45	62-50	61-45	60-74	60-27
5.....	60-27	60-55	60-37	60-19	62-11	63-53	64-03	63-55	62-10	61-42	60-77	60-18
6.....	60-29	60-55	60-37	60-20	62-17	63-42	64-27	63-39	62-16	61-07	60-12	60-27
7.....	60-37	60-53	60-36	60-20	62-27	63-57	64-19	63-35	62-12	61-13	60-64	60-36
8.....	60-32	60-57	60-37	60-21	61-55	63-61	64-14	63-28	62-10	61-17	60-63	60-27
9.....	60-31	60-52	60-28	60-20	62-36	63-71	64-04	63-14	62-08	61-07	60-67	60-26
10.....	60-41	60-53	60-28	60-22	61-32	63-68	63-95	63-08	61-87	60-90	60-62	60-25
11.....	60-45	60-57	60-38	60-18	62-27	63-67	64-00	63-09	61-75	60-95	60-65	60-26
12.....	60-56	60-52	60-30	60-27	62-34	63-47	63-99	63-13	61-89	61-04	60-67	60-23
13.....	60-43	60-53	60-32	60-27	62-37	63-58	64-07	62-97	61-92	61-04	60-54	60-18
14.....	60-43	60-57	60-33	60-29	62-57	63-70	63-98	62-83	61-78	60-89	60-56	60-19
15.....	60-37	60-53	60-27	60-39	63-72	63-82	63-91	62-95	61-75	60-94	60-47	60-20
16.....	60-37	60-46	60-29	60-77	62-72	63-89	64-09	62-96	61-74	61-24	60-58	60-20
17.....	60-39	60-47	60-31	60-83	62-67	63-94	63-95	62-90	61-76	60-92	60-55	60-17
18.....	60-37	60-45	60-27	60-80	62-66	63-86	64-20	62-93	61-67	61-19	60-51	60-19
19.....	60-39	60-45	60-27	60-91	62-64	63-86	63-90	62-80	61-77	61-10	60-60	60-17
20.....	60-47	60-45	60-27	61-07	62-81	63-95	64-05	62-77	61-64	60-79	60-61	60-14
21.....	60-50	60-40	60-27	61-12	62-91	63-82	63-99	62-82	61-62	60-86	60-38	60-14
22.....	60-37	60-42	60-27	61-21	62-94	63-86	64-06	62-68	61-87	60-87	60-25	60-15
23.....	60-47	60-47	60-27	61-28	62-77	63-89	63-65	62-60	61-63	60-66	60-54	60-15
24.....	60-43	60-39	60-27	61-37	63-00	63-67	63-94	62-63	61-74	60-42	60-40	60-16
25.....	60-44	60-43	60-28	61-47	63-49	63-89	64-05	62-62	61-58	60-57	60-41	60-15
26.....	60-47	60-39	60-25	61-56	62-92	63-94	63-90	62-59	61-39	60-70	60-37	60-33
27.....	60-47	60-37	60-28	61-60	62-87	63-97	63-85	62-43	61-66	60-77	60-38	60-14
28.....	60-52	60-37	60-28	61-62	63-06	64-13	63-70	62-27	61-54	60-62	60-34	60-17
29.....	60-52	60-37	60-27	61-79	63-35	64-10	63-75	62-40	61-34	60-73	60-32	60-16
30.....	60-47	.....	60-31	61-85	63-35	64-00	63-82	62-36	61-29	60-72	60-32	60-15
31.....	60-52	.....	60-25	.....	63-33	.....	63-71	62-29	.....	60-77	.....	60-16
1917												
1.....	1060-16	1059-97	1059-61	1059-10	1059-19	1059-33	1059-33	1059-45	1059-62	1059-76	1059-55	1059-67
2.....	60-15	59-93	59-60	59-07	59-18	59-53	59-51	59-82	59-81	59-67	59-56	59-58
3.....	60-15	59-90	59-58	59-07	59-20	59-42	59-55	59-82	59-82	59-62	59-69	59-61
4.....	60-12	59-87	59-60	59-06	59-22	59-45	59-49	59-80	59-79	59-52	59-62	59-60
5.....	60-13	59-89	59-60	59-02	59-24	59-54	59-59	59-73	59-37	59-75	59-68	59-60
6.....	60-12	59-87	59-59	59-02	59-26	59-58	59-60	59-84	59-78	59-34	59-71	59-64
7.....	60-13	59-86	59-58	59-01	59-29	59-43	59-57	59-89	59-77	59-80	59-63	59-57
8.....	60-14	59-85	59-53	58-99	59-31	59-38	59-61	59-92	60-02	59-35	59-64	59-57
9.....	60-16	59-83	59-52	58-99	59-33	59-41	59-76	59-77	59-92	59-61	59-64	59-60
10.....	60-15	59-80	59-52	58-96	59-34	59-30	59-64	59-86	59-53	59-27	59-59	59-59
11.....	60-13	59-82	59-50	58-96	59-37	59-42	59-78	59-79	59-62	59-97	59-66	59-62
12.....	60-14	59-79	59-49	58-97	59-36	58-65	59-78	59-87	59-72	59-70	59-50	59-62
13.....	60-09	59-79	59-47	59-00	59-39	58-82	59-76	59-85	59-95	59-39	59-57	59-61
14.....	60-07	59-78	59-46	58-99	59-39	59-50	59-78	59-79	59-90	59-42	59-52	59-59
15.....	60-10	59-77	59-42	59-00	59-37	59-28	59-78	59-85	59-80	59-46	59-54	59-66
16.....	60-08	59-78	59-43	58-98	59-40	59-41	59-74	59-94	59-77	59-57	59-57	59-60
17.....	60-07	59-76	59-37	58-99	59-42	59-42	49-79	59-81	59-75	60-37	59-59	59-61
18.....	60-08	59-77	59-36	59-04	59-41	59-43	59-64	59-98	59-72	60-35	59-60	59-57
19.....	60-09	59-76	59-33	59-01	59-63	59-49	59-87	59-84	60-10	59-63	59-59	59-58
20.....	60-07	59-76	59-32	59-00	59-57	59-24	59-77	59-98	59-77	59-65	59-62	59-59
21.....	60-07	59-75	69-31	58-99	59-55	59-46	49-75	59-80	59-76	59-76	59-68	59-63
22.....	60-05	59-72	59-30	59-04	59-56	59-48	59-85	59-77	59-62	60-50	59-64	59-58
23.....	60-06	59-72	59-24	59-08	59-53	59-41	59-82	60-01	59-71	59-52	59-48	59-58
24.....	60-04	59-72	59-27	59-10	59-48	59-45	59-67	60-04	59-74	59-55	59-74	59-55
25.....	60-03	59-73	59-20	59-08	59-46	59-40	59-72	59-83	59-67	59-67	59-67	59-55
26.....	60-07	59-70	59-23	59-09	59-88	59-47	59-88	59-85	59-64	59-62	59-67	59-65
27.....	60-07	59-63	59-19	59-10	59-47	59-43	59-82	59-69	59-77	59-42	59-57	59-58
28.....	60-05	59-65	59-16	59-13	59-33	59-47	60-05	59-83	59-64	59-42	59-61	59-59
29.....	60-02	.....	59-13	59-15	59-51	59-57	59-85	59-80	59-53	59-57	59-61	59-61
30.....	60-00	.....	59-19	59-17	59-86	59-30	59-78	59-57	59-83	59-62	59-57	59-63
31.....	59-97	.....	59-08	.....	59-65	.....	59-86	59-67	.....	59-60	.....	59-59

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE OF THE WOODS—WARROAD, MINN.—Continued

RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918												
1	1059-66	1059-55	1059-45	1059-15	1059-15	1059-22	1059-92	1060-13	1060-11	1059-57	1059-84	1059-93
2	59-64	59-57	59-40	59-16	59-34	59-82	59-94	60-05	60-07	59-80	59-89	59-92
3	59-67	59-51	59-41	59-15	59-37	59-87	60-06	59-99	59-99	59-27	59-77	59-90
4	59-66	59-54	59-45	59-13	59-19	59-87	60-17	59-97	60-12	59-82	59-89	59-97
5	59-62	59-55	59-39	59-14	59-22	59-92	60-09	60-03	59-95	59-90	59-72	59-97
6	59-64	59-52	59-37	59-16	59-72	59-94	59-95	60-01	60-03	59-82	59-78	59-99
7	59-67	59-58	59-33	59-11	59-45	59-82	59-95	59-98	50-05	60-65	59-90	59-97
8	59-61	59-52	59-35	59-17	59-35	59-93	59-88	59-99	59-98	59-55	59-63	59-92
9	59-64	59-56	59-33	59-17	59-65	59-70	60-00	59-95	60-19	59-58	60-02	60-03
10	59-60	59-53	59-35	59-17	59-43	59-87	59-89	59-67	59-87	59-82	59-81	60-02
11	59-61	59-53	59-35	59-19	59-27	59-82	59-92	60-02	60-02	59-75	59-87	59-96
12	59-60	59-52	59-31	59-19	59-44	59-97	59-93	60-16	59-72	59-82	59-62	60-04
13	59-63	59-54	59-31	59-19	59-25	59-77	59-98	60-05	60-99	59-79	59-85	60-05
14	59-61	59-51	59-27	59-19	59-61	60-13	59-97	59-95	59-89	59-75	59-83	60-00
15	59-62	59-50	59-25	59-21	59-72	59-67	60-03	60-18	59-99	59-77	59-95	59-99
16	59-61	59-50	59-21	59-22	59-46	60-08	59-99	60-09	59-97	60-00	60-01	60-00
17	59-59	59-51	50-25	59-23	59-32	59-98	59-87	60-08	59-91	60-03	59-92	60-03
18	59-64	59-50	59-21	59-24	59-52	60-06	59-97	59-99	59-91	59-64	60-02	59-96
19	59-60	59-49	59-19	59-22	59-17	59-81	59-97	59-97	60-07	59-52	60-03	59-93
20	59-60	59-45	59-22	59-20	59-56	59-59	59-87	60-03	59-85	59-50	60-10	60-05
21	59-62	59-48	59-19	59-14	59-83	60-01	59-98	60-07	59-65	59-62	60-27	60-06
22	59-60	59-46	59-22	59-08	59-17	59-87	59-99	59-75	59-97	59-72	59-95	60-03
23	59-64	59-47	59-20	59-26	59-59	59-77	59-98	60-09	60-17	60-05	59-53	60-03
24	59-60	59-46	59-18	59-04	59-67	59-97	60-08	59-92	60-09	60-17	59-20	60-03
25	59-58	59-47	59-22	59-11	59-69	59-89	60-19	59-92	59-92	59-95	59-99	60-06
26	59-58	59-53	59-23	59-60	59-71	59-59	59-81	60-08	59-82	59-79	59-67	60-01
27	59-58	59-45	59-23	59-37	59-64	59-65	60-11	59-87	60-02	59-93	59-76	60-01
28	59-57	59-47	59-17	59-65	59-70	59-82	59-99	59-89	59-86	59-99	59-87	60-01
29	59-57	59-47	59-12	59-67	59-60	60-08	60-09	59-92	59-81	59-90	59-90	60-03
30	59-55	59-47	59-15	59-17	59-67	60-05	59-89	60-09	59-75	59-92	59-93	60-05
31	59-54	59-47	59-11	59-11	59-66	59-89	60-03	60-12	59-90	59-90	59-93	59-97
1919												
1	1060-01	1060-10	1060-17	1059-97	1060-09	1060-09	1060-83	1061-34	1060-22	1060-45	1059-62	1059-86
2	59-99	60-10	60-17	59-95	60-06	60-17	61-12	61-17	60-61	60-12	60-12	59-84
3	59-99	60-08	60-17	59-90	60-20	60-27	61-87	61-27	60-52	60-02	60-54	59-88
4	60-04	60-05	60-22	59-91	60-27	60-32	61-87	61-29	60-46	60-12	60-29	59-88
5	60-03	60-09	60-23	59-98	60-14	60-69	61-82	61-13	60-60	59-95	59-86	59-87
6	60-02	60-07	60-25	59-94	60-20	60-39	61-85	61-08	60-50	60-06	59-73	59-88
7	60-01	60-08	60-23	60-02	60-09	60-27	61-99	61-29	60-82	60-04	59-86	59-81
8	59-96	60-09	60-11	60-00	60-10	60-29	61-52	61-08	60-46	59-67	59-81	59-88
9	59-99	60-09	60-23	59-95	60-11	60-32	61-02	61-08	60-42	60-12	59-88	59-87
10	60-00	60-11	60-18	59-97	60-08	60-37	61-85	60-94	60-45	59-83	59-96	59-87
11	60-06	60-09	60-19	59-93	60-07	60-35	62-29	60-82	60-49	60-15	59-57	59-87
12	60-02	60-13	60-20	59-93	60-10	60-22	61-86	60-82	60-27	59-77	59-84	59-90
13	59-97	60-13	60-19	60-01	59-92	60-22	61-87	60-85	60-26	60-06	59-84	59-88
14	59-97	60-13	60-19	59-98	60-02	60-42	61-85	60-87	60-39	59-86	59-80	59-85
15	59-99	60-08	60-08	59-97	60-17	60-32	61-79	60-80	60-22	59-67	59-83	59-85
16	60-01	60-07	60-10	59-98	60-25	60-42	61-79	60-87	60-39	59-84	59-86	59-84
17	60-06	60-13	60-15	59-98	60-22	60-39	61-65	61-04	60-43	59-82	59-77	59-86
18	60-06	60-16	60-10	59-97	60-17	60-45	61-75	60-97	60-42	59-92	59-85	59-85
19	60-04	60-17	60-15	59-95	60-23	60-49	61-09	60-83	60-13	59-89	59-87	59-86
20	60-10	60-16	60-07	59-93	60-15	60-45	61-65	60-73	60-17	59-94	59-87	59-84
21	60-09	60-17	60-08	59-92	60-12	60-51	61-65	60-89	60-36	59-97	59-86	59-85
22	60-06	60-14	60-06	59-90	60-17	60-71	61-69	60-77	60-38	59-92	59-93	59-88
23	60-09	60-15	60-07	59-95	60-17	60-77	61-57	60-75	60-06	60-10	59-85	59-87
24	60-03	60-17	60-09	60-01	60-12	60-77	61-57	60-81	60-07	59-89	59-92	59-87
25	60-04	60-14	60-06	59-99	60-05	60-72	61-59	60-75	60-25	59-89	59-88	59-85
26	60-07	60-14	60-01	59-88	59-99	60-92	61-75	60-77	60-00	59-81	59-86	59-84
27	60-02	60-14	60-01	60-15	59-89	60-83	61-37	60-72	60-37	60-07	59-87	59-89
28	60-04	60-16	59-98	60-06	59-89	60-71	61-49	60-64	60-46	59-67	59-88	59-85
29	60-08	60-16	60-00	59-92	60-05	60-59	61-49	60-66	60-22	59-79	59-88	59-81
30	60-07	60-16	59-96	60-05	59-87	60-59	61-50	60-67	60-17	59-99	59-86	59-85
31	60-03	60-16	59-96	60-05	60-09	60-59	61-52	60-57	59-57	59-57	59-86	59-83

## WATER LEVELS—LAKE OF THE WOODS—WARROAD, MINN.—Continued

## RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1920												
1	1059-81	1059-81	1059-69	1059-57	1059-86	1060-08	1060-05	1059-81	1059-71	1059-40	1059-37	1059-30
2	59-82	59-79	59-68	59-56	59-86	59-87	60-07	59-73	59-62	59-41	59-27	59-35
3	59-86	59-82	59-68	59-57	59-89	59-83	60-19	59-72	59-60	59-26	59-26	59-25
4	59-85	59-80	59-65	59-55	59-85	59-90	60-04	59-87	59-61	59-40	59-15	59-31
5	59-87	59-80	59-63	59-59	59-84	59-89	60-10	59-77	59-57	59-38	59-24	59-30
6	59-84	59-78	59-63	59-57	59-82	59-89	60-17	59-77	59-56	59-30	59-29	59-29
7	59-84	59-80	59-64	59-57	59-83	59-95	60-19	59-86	59-50	59-33	58-93	59-33
8	59-82	59-80	59-62	59-55	59-81	60-09	60-15	59-76	59-41	58-69	59-43	59-35
9	59-85	59-77	59-65	59-56	59-82	60-11	60-15	59-75	59-55	59-30	59-23	59-25
10	59-80	59-77	59-62	59-54	59-89	60-18	59-99	59-93	59-56	59-41	59-40	59-31
11	59-82	59-75	59-60	59-54	59-82	60-23	59-53	59-93	59-48	59-42	59-23	59-37
12	59-85	59-76	59-61	59-55	59-81	60-12	60-15	59-81	59-47	59-37	58-87	59-33
13	59-79	59-68	59-59	59-54	59-80	60-20	60-01	59-60	59-43	59-35	58-86	59-33
14	59-86	59-71	59-58	59-51	59-79	60-19	59-85	59-53	59-60	59-26	59-22	59-23
15	59-87	59-70	59-59	59-54	59-73	60-37	60-00	59-78	59-27	59-41	59-06	59-21
16	59-84	59-70	59-54	59-54	59-73	60-50	59-90	59-85	59-48	59-35	59-09	59-30
17	59-83	59-72	59-53	59-56	59-72	60-27	60-06	59-73	59-51	59-58	59-26	59-29
18	59-85	59-75	59-54	59-56	59-65	60-20	59-95	59-52	60-15	59-44	59-26	59-31
19	59-80	59-77	59-48	59-58	59-66	60-13	59-80	59-51	59-69	59-36	59-28	59-28
20	59-81	59-71	59-46	59-62	59-57	60-11	59-98	59-61	59-48	59-25	59-42	59-32
21	59-80	59-69	59-47	59-65	59-70	60-45	59-90	59-76	59-40	59-44	59-30	59-32
22	59-83	59-73	59-46	59-69	59-68	60-05	59-95	59-53	59-51	59-31	59-28	59-29
23	59-79	59-70	59-49	59-70	59-80	60-09	60-30	59-62	59-67	58-50	59-29	59-28
24	59-83	59-67	59-51	59-72	59-75	60-00	59-98	59-60	59-50	58-97	59-24	59-31
25	59-87	59-70	59-49	59-74	59-83	60-01	59-90	59-54	59-38	59-39	59-24	59-34
26	59-85	59-67	59-49	59-76	59-67	60-05	59-76	59-54	59-47	59-36	59-28	59-29
27	59-83	59-69	59-56	59-80	59-74	60-01	59-77	59-52	59-16	59-58	59-26	59-31
28	59-85	59-65	59-53	59-80	59-71	60-04	59-91	59-64	59-29	59-21	59-34	59-39
29	59-83	59-64	59-55	59-83	59-71	60-18	59-85	60-06	59-53	59-19	59-28	59-35
30	59-87	59-65	59-55	59-81	59-95	59-99	59-86	59-39	59-33	59-17	59-25	59-34
31	59-80	59-63	59-63	59-93	59-93	59-85	59-63	59-63	59-45	59-45	59-40	59-40
1921												
1	1059-34	1059-35	1059-34	1059-44	1059-94	1059-44	1059-38	1059-51	1058-99	1059-07	1059-06	1058-95
2	59-37	59-35	59-26	59-36	59-97	59-65	59-38	59-51	59-28	59-26	58-93	58-96
3	59-36	59-38	59-31	59-54	59-92	59-73	59-50	59-46	59-32	59-27	59-02	58-98
4	59-35	59-39	59-32	59-38	59-86	59-55	59-37	59-31	68-78	59-06	59-15	58-96
5	59-34	59-38	59-30	59-49	59-83	59-52	59-62	59-10	58-93	59-20	59-09	59-00
6	59-35	59-36	59-33	59-54	59-81	59-80	59-61	59-06	59-20	59-05	59-10	58-98
7	59-32	59-37	59-29	59-56	59-81	59-74	59-57	59-39	59-25	59-13	59-20	58-97
8	59-31	59-40	59-29	59-58	59-76	59-68	59-56	59-40	59-50	59-10	59-15	58-94
9	59-35	59-40	59-31	59-64	59-77	59-58	59-40	59-56	59-29	59-15	59-05	58-97
10	59-35	59-38	59-32	59-68	59-81	59-41	59-60	59-57	59-25	59-38	59-13	58-93
11	59-33	59-35	59-31	59-75	59-74	59-66	59-70	59-35	58-40	59-08	59-00	58-96
12	59-37	59-42	59-31	59-82	59-72	59-57	59-75	59-40	59-20	59-14	58-99	59-00
13	59-35	59-34	59-31	59-83	60-07	59-67	59-70	59-50	59-42	59-06	59-02	58-98
14	59-32	59-40	59-38	59-88	59-80	59-65	59-64	59-40	59-21	59-11	58-87	58-99
15	59-42	59-39	59-30	59-84	59-70	59-63	59-54	59-15	59-27	59-24	58-95	58-99
16	59-34	59-37	59-37	59-84	59-62	59-63	59-50	59-25	59-46	59-15	59-10	59-00
17	59-37	59-34	59-39	59-85	59-62	59-55	59-51	59-48	59-10	59-13	59-02	59-03
18	59-44	59-32	59-40	59-86	59-70	59-68	59-41	59-35	59-34	59-03	58-90	58-99
19	59-37	59-33	59-34	59-87	59-78	59-69	59-64	59-43	59-39	59-26	58-82	59-00
20	59-34	59-36	59-33	59-89	59-17	59-57	59-51	59-29	59-38	59-08	58-91	59-00
21	59-36	59-32	59-34	59-88	59-52	59-31	59-47	59-25	59-24	58-58	58-91	59-01
22	59-34	59-31	59-38	59-88	59-62	59-54	59-45	59-30	59-34	58-98	58-92	59-00
23	59-35	59-33	59-38	59-71	59-68	59-66	59-43	59-32	59-45	59-14	58-95	59-00
24	59-39	59-30	59-38	59-88	59-66	59-62	59-52	59-41	59-25	59-34	58-91	59-00
25	59-39	59-39	59-35	59-82	59-63	59-46	59-50	59-39	59-36	59-25	58-98	59-00
26	59-33	59-35	59-40	59-87	59-65	59-55	59-57	59-38	59-30	59-19	58-87	58-99
27	59-39	59-37	59-39	59-94	59-63	59-52	59-67	59-35	59-02	59-14	58-95	59-01
28	59-38	59-31	59-40	59-86	59-61	59-55	59-48	59-33	59-32	59-04	59-00	58-97
29	59-38	59-39	59-39	59-85	59-79	59-53	59-37	59-14	59-15	59-05	58-95	59-00
30	59-38	59-34	59-34	60-11	59-60	59-49	59-48	59-40	59-27	59-06	58-97	58-98
31	59-40	59-40	59-40	59-60	59-60	59-46	59-46	58-89	59-08	59-08	58-97	59-01

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE OF THE WOODS—WARROAD, MINN.—Continued

RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1922												
1	1059-03	1059-10	1059-14	1059-30	1060-03	1060-27	1059-75	1059-79	1059-53	1059-30	1059-18	1059-35
2	59-05	59-08	59-10	59-34	60-04	60-29	59-90	59-75	59-60	59-47	59-24	59-48
3	58-99	59-10	59-11	59-34	60-01	60-28	59-75	59-90	59-67	59-40	59-15	59-47
4	59-02	59-10	59-10	59-37	60-02	60-15	59-60	59-82	59-55	59-59	59-33	59-51
5	59-03	59-10	59-19	59-38	60-09	60-20	59-75	59-94	59-80	59-33	59-45	59-49
6	59-06	59-10	59-16	59-34	60-07	60-30	59-76	60-13	59-72	59-24	59-37	59-50
7	59-02	59-05	59-12	59-34	60-01	60-37	59-85	59-94	59-54	59-35	59-55	59-50
8	59-00	59-10	59-12	59-40	60-24	60-33	59-81	59-83	59-40	59-28	59-45	59-47
9	58-99	59-10	59-13	59-41	60-18	60-35	59-60	59-79	59-30	59-28	59-35	59-51
10	59-00	59-01	59-14	59-42	60-26	60-22	59-62	59-74	59-52	59-18	59-40	59-52
11	58-99	59-10	59-14	59-45	60-49	60-20	59-78	59-68	59-47	59-55	59-44	59-51
12	58-99	59-10	59-16	59-49	60-31	60-27	59-76	59-72	59-57	59-03	59-43	59-52
13	59-03	59-10	59-19	59-50	60-40	60-23	59-55	59-74	59-65	59-03	59-48	59-53
14	59-03	59-10	59-11	59-53	60-54	60-25	59-76	59-56	59-57	59-10	59-34	59-56
15	59-00	59-10	59-17	59-56	60-44	60-40	59-71	59-78	59-60	59-08	59-28	59-53
16	59-08	59-12	59-17	59-60	60-46	60-55	59-60	59-57	59-47	59-30	59-39	59-53
17	59-08	59-14	59-26	59-61	60-40	60-23	59-74	59-50	59-61	59-00	59-36	59-52
18	59-05	59-10	59-20	59-71	60-45	60-66	59-74	59-69	59-50	59-05	59-75	59-53
19	59-08	59-10	59-18	59-76	60-52	60-25	59-75	59-75	59-24	59-25	59-51	59-59
20	59-10	59-10	59-20	59-83	60-60	60-14	59-80	59-72	59-30	59-00	59-37	59-58
21	59-04	59-11	59-22	59-85	60-53	60-07	59-83	59-65	59-30	59-15	59-31	59-55
22	59-01	59-18	59-22	59-88	60-50	60-04	59-94	59-67	59-45	59-05	59-28	59-64
23	59-02	59-10	59-16	59-92	60-55	59-93	59-99	59-48	59-42	59-15	59-34	59-60
24	59-08	59-09	59-21	59-89	60-59	60-09	59-79	59-44	59-50	59-10	59-57	59-61
25	59-04	59-10	59-25	59-94	60-59	59-94	59-81	59-45	59-46	59-08	59-27	59-59
26	59-04	59-10	59-29	59-91	60-60	59-85	59-90	59-57	59-40	59-08	59-44	59-63
27	59-06	59-11	59-32	59-96	60-56	60-00	59-83	59-42	59-35	59-28	59-41	59-63
28	59-10	59-10	59-30	59-99	60-39	59-87	59-75	59-65	59-25	59-65	59-29	59-66
29	59-10	59-10	59-32	60-01	60-62	60-00	59-83	59-55	59-28	59-37	59-58	59-63
30	59-08	59-10	59-31	59-99	60-52	60-07	59-81	59-54	59-20	59-26	59-72	59-65
31	59-05	59-10	59-30	59-10	60-35	59-10	59-88	59-53	59-10	59-14	59-10	59-63
1923												
1	1059-65	1059-83	1060-00	1059-76	1060-16	1060-38	1060-19	1060-09	1059-84	1059-57	1058-70	1058-69
2	59-68	59-80	60-00	59-71	60-17	60-38	60-22	60-09	59-80	59-54	58-92	58-63
3	59-67	59-85	60-00	59-66	60-19	60-39	60-24	59-94	59-80	59-55	59-05	58-72
4	59-67	59-86	60-03	59-64	60-21	60-35	60-23	60-10	59-75	59-58	59-02	58-71
5	59-68	59-88	60-01	59-67	60-22	60-53	60-33	60-00	59-84	59-46	58-78	58-65
6	59-72	59-87	60-00	59-56	60-30	60-40	60-38	60-00	59-60	59-49	59-02	58-70
7	59-69	59-89	60-00	59-52	60-12	60-39	60-38	60-12	59-82	59-38	59-05	58-77
8	59-71	59-86	60-07	59-48	60-45	60-30	60-22	60-11	59-98	59-39	58-90	58-62
9	59-70	59-86	60-00	59-45	60-15	60-25	60-47	60-12	59-68	59-45	58-82	58-66
10	59-75	59-87	60-09	59-38	60-30	60-26	60-41	60-22	59-71	59-56	58-94	58-59
11	59-78	59-93	60-12	59-38	60-44	60-29	60-50	59-95	59-61	59-31	58-95	58-67
12	59-76	59-95	60-10	59-33	60-43	60-31	60-40	60-18	59-62	59-35	59-06	58-35
13	59-80	59-89	60-09	59-35	60-32	60-26	60-27	60-10	59-60	59-19	59-04	58-63
14	59-76	59-83	60-06	59-29	60-29	60-30	60-32	60-10	59-66	59-17	58-90	58-64
15	59-75	59-84	60-04	59-25	60-42	60-29	60-42	60-08	59-60	58-98	58-90	58-60
16	59-80	59-89	60-06	59-24	60-44	60-20	60-39	60-07	59-58	59-28	58-70	58-60
17	59-80	59-98	60-03	59-20	60-39	59-99	60-30	60-02	59-73	59-28	58-80	58-62
18	59-75	59-98	60-02	59-22	60-35	59-60	60-15	60-10	59-60	59-27	58-83	58-62
19	59-79	60-00	60-02	59-32	60-45	60-14	60-39	60-01	59-55	59-60	58-86	58-59
20	59-78	59-96	60-03	60-40	60-38	60-28	60-40	59-91	59-73	59-31	58-80	58-59
21	59-78	59-97	59-99	59-60	60-44	60-35	60-34	60-17	59-43	58-96	58-76	58-58
22	59-79	59-97	59-96	59-52	60-39	60-24	60-22	59-82	59-63	59-11	58-78	58-59
23	59-83	59-99	59-94	59-62	60-39	60-15	60-45	59-92	59-78	59-14	58-86	58-57
24	59-79	59-93	59-93	59-70	60-32	60-07	60-40	59-97	59-59	59-47	58-80	58-55
25	59-85	59-97	59-90	59-75	60-40	60-77	60-27	59-87	59-68	59-41	58-78	58-56
26	59-83	60-00	59-92	59-81	60-37	60-30	60-44	59-90	59-26	59-22	58-93	58-60
27	59-84	59-99	59-80	59-94	60-33	60-54	60-38	59-85	59-54	59-09	58-73	58-58
28	59-85	60-02	59-84	60-01	60-37	60-33	60-23	59-94	59-65	59-05	58-40	58-54
29	59-82	59-10	59-78	60-03	60-37	60-25	60-33	59-80	59-83	58-90	58-76	58-56
30	59-83	59-10	59-75	60-10	60-34	60-18	60-29	59-75	59-65	59-05	58-81	58-53
31	59-81	59-10	59-74	59-10	60-38	59-10	60-28	60-04	59-10	58-98	58-10	58-51

WATER LEVELS—LAKE OF THE WOODS—WARROAD, MINN.—Continued

RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1924												
1	1058-63	1058-27	1057-91	1057-60	1057-77	1057-75	1057-71	1057-37	1056-79	1056-51	1055-47	1055-75
2	58-52	58-24	57-87	57-60	57-78	57-82	57-67	57-28	56-68	56-47	56-27	55-74
3	58-49	58-24	57-87	57-51	57-74	57-79	57-59	57-35	56-61	56-45	55-85	55-75
4	58-51	58-27	57-90	57-59	57-61	57-81	57-58	57-33	56-76	56-55	56-08	55-72
5	58-46	58-26	57-88	57-57	57-83	57-72	57-55	57-49	56-82	56-96	56-50	55-72
6	58-47	58-21	57-89	57-59	57-81	57-93	57-50	57-23	56-75	56-38	56-40	55-70
7	58-45	58-22	57-92	57-60	57-75	57-87	57-48	57-35	56-71	56-48	56-10	55-99
8	58-52	58-24	57-87	57-57	57-90	57-89	56-50	57-30	56-91	56-47	55-90	55-74
9	58-50	58-11	57-87	57-57	57-77	57-74	57-53	57-23	56-70	56-13	55-69	55-68
10	58-51	58-14	57-88	57-60	57-75	57-64	57-48	57-30	56-70	56-44	56-29	55-69
11	58-49	58-16	57-87	57-60	57-72	57-79	57-40	57-21	56-67	56-65	55-80	55-70
12	58-46	58-19	57-82	57-61	57-77	57-81	57-40	57-35	56-75	56-31	55-68	55-61
13	58-43	58-13	57-83	57-54	58-32	57-79	57-46	57-17	56-69	55-92	55-90	55-60
14	58-43	58-11	57-82	57-63	57-95	57-97	57-28	56-86	56-74	56-42	55-75	55-61
15	58-42	58-14	57-82	57-69	57-89	57-86	57-49	57-20	56-67	56-48	56-00	55-71
16	58-38	58-11	57-80	57-75	57-85	57-70	57-63	57-19	56-62	56-57	56-00	55-69
17	58-37	58-13	57-77	57-68	57-89	57-90	57-48	57-12	56-61	56-36	55-99	55-60
18	58-36	58-14	57-74	57-70	57-86	57-77	57-29	57-25	56-59	56-46	56-00	55-59
19	58-36	58-12	57-76	57-72	57-93	57-37	57-14	57-14	56-51	56-42	55-85	55-58
20	58-31	58-06	57-77	57-72	58-05	57-28	57-23	57-06	56-65	56-52	55-80	55-54
21	58-40	58-02	57-73	57-72	57-88	57-62	56-91	57-12	56-79	56-39	55-85	55-53
22	58-35	58-03	57-72	57-70	57-85	57-71	57-31	56-90	56-64	56-29	55-89	55-54
23	58-34	58-03	57-70	57-74	57-96	57-46	57-45	56-88	56-60	56-26	55-89	55-53
24	58-34	57-98	57-70	57-80	57-82	57-76	57-21	56-97	56-38	56-13	55-80	55-52
25	58-31	57-98	57-69	57-82	57-86	56-67	57-39	56-96	56-72	56-25	55-81	55-51
26	58-33	58-00	57-68	57-80	57-86	57-51	57-23	56-86	56-46	56-30	55-68	55-52
27	58-34	57-99	57-65	57-76	58-03	58-07	57-33	56-91	56-45	56-25	55-77	55-53
28	58-33	58-00	57-68	57-77	57-97	57-87	57-27	56-97	56-53	56-34	55-78	55-52
29	58-29	57-94	57-70	57-80	57-88	57-77	57-75	57-01	56-55	56-42	55-77	55-45
30	58-27	57-64	57-78	57-85	57-85	57-77	57-67	56-85	56-40	56-34	55-79	55-44
31	58-29	57-60	57-62	57-62	57-62	57-36	57-36	56-48	56-48	55-70	55-44	55-45
1925												
1	1055-46	1055-22	1055-16	1055-50	1050-39	1057-15	1058-57	1058-78	1058-70	1058-53	1059-03	1059-17
2	55-43	55-30	55-14	55-47	56-40	57-26	58-52	58-69	58-55	58-66	59-17	59-20
3	55-45	55-26	55-15	55-48	56-59	57-08	58-59	58-71	58-57	58-77	58-89	59-21
4	55-43	55-22	55-19	55-50	56-53	57-33	58-67	58-62	58-67	58-74	59-10	59-19
5	55-45	55-25	55-19	55-51	56-64	57-26	58-50	58-59	58-76	58-75	58-67	59-23
6	55-42	55-23	55-18	55-51	56-57	57-35	58-71	58-58	58-57	58-97	58-91	59-25
7	55-39	55-31	55-18	55-60	56-59	57-57	58-86	58-67	58-69	59-02	59-05	59-28
8	55-42	55-28	55-18	55-60	56-38	57-60	58-54	58-49	58-52	59-09	59-09	59-29
9	55-39	55-21	55-21	55-57	56-48	57-91	58-60	58-58	58-62	59-84	59-13	59-31
10	55-42	55-20	55-15	55-55	56-58	57-61	58-68	58-67	58-40	58-53	59-12	59-30
11	55-40	55-21	55-21	55-55	56-47	57-73	58-76	58-64	58-72	58-86	59-13	59-35
12	55-40	55-20	55-22	55-65	56-81	57-69	58-78	58-59	58-65	58-87	59-12	59-30
13	55-37	55-19	55-20	55-60	56-76	57-56	58-69	58-79	58-76	58-86	59-10	59-26
14	55-37	55-18	55-20	55-62	56-58	57-87	58-80	58-61	58-70	58-81	59-11	59-27
15	55-36	55-19	55-26	55-60	56-72	57-92	58-62	58-63	58-53	58-86	59-12	59-26
16	55-35	55-19	55-27	55-59	57-03	57-90	58-90	58-74	58-64	58-81	59-15	59-27
17	55-34	55-18	55-25	55-67	56-53	58-30	58-71	58-67	58-54	58-76	59-20	59-29
18	55-35	55-20	55-26	55-85	56-72	57-96	58-69	58-52	58-80	59-15	59-11	59-33
19	55-31	55-19	55-25	55-88	56-67	58-06	58-41	58-57	58-90	58-92	59-17	59-31
20	55-30	55-21	55-35	55-84	56-73	58-20	58-78	58-69	58-79	59-04	59-17	59-32
21	55-27	55-20	55-24	55-85	56-79	58-16	58-97	58-45	58-73	59-00	59-17	59-33
22	55-29	55-18	55-27	55-92	57-48	58-29	58-78	58-50	58-45	59-08	59-13	59-30
23	55-30	55-20	56-26	56-00	57-92	58-16	58-78	58-63	58-67	59-00	59-16	59-29
24	55-28	55-20	55-29	55-63	56-88	58-47	58-78	58-58	58-81	59-01	59-19	59-31
25	55-27	55-18	55-32	55-62	56-87	58-25	58-76	58-59	58-53	59-01	59-24	59-32
26	55-26	55-17	55-51	55-87	56-75	58-37	58-09	58-75	58-74	58-81	59-11	59-31
27	55-23	55-18	55-61	56-10	56-92	58-13	58-78	58-67	58-79	58-78	59-13	59-30
28	55-21	55-16	55-61	56-18	56-73	58-03	58-82	58-35	58-90	58-91	59-16	59-29
29	55-21	55-15	55-75	56-48	56-70	58-58	58-80	58-57	59-51	58-61	59-25	59-30
30	55-23	55-15	55-60	56-40	56-68	58-20	58-93	58-45	59-26	58-50	59-18	59-33
31	55-20	55-15	55-48	56-40	56-91	58-20	58-82	58-46	58-46	58-93	59-18	59-33

WATER LEVELS—LAKE OF THE WOODS—WARROAD, MINN.—Concluded

RECORDS OF UNITED STATES WAR DEPARTMENT

[Elevations refer to Sea-level Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1926												
1.....	1059-30	1059-42	1059-50	1059-64	1059-79	1059-97	1060-74	1060-40	1060-77	1059-88	1060-92	1060-88
2.....	59-35	59-42	59-47	59-64	59-80	60-18	60-83	60-38	60-61	60-43	60-88	60-90
3.....	59-40	59-40	59-49	59-67	59-82	60-06	60-72	60-52	60-84	60-76	60-91	60-90
4.....	59-39	59-43	59-50	59-70	59-81	59-98	60-72	60-39	60-81	60-64	60-67	60-93
5.....	59-37	59-45	59-52	59-68	59-79	59-80	60-72	60-37	60-49	60-85	60-88	60-90
6.....	59-37	59-47	59-52	59-69	59-77	60-00	60-76	60-60	60-45	60-84	60-92	60-30
7.....	59-36	59-51	59-52	59-70	59-82	60-02	60-67	60-40	60-58	60-95	61-06	60-88
8.....	59-37	59-50	59-52	59-68	59-87	60-03	61-18	60-39	60-51	60-98	61-04	60-90
9.....	59-35	59-51	59-51	59-70	59-95	60-07	60-99	60-43	60-41	60-86	60-94	60-91
10.....	59-38	59-49	59-52	59-70	60-00	60-07	60-78	60-41	60-51	60-95	60-80	60-89
11.....	59-34	59-48	59-55	59-71	59-82	60-16	60-77	60-34	60-77	60-85	60-76	60-91
12.....	59-40	59-50	59-54	59-73	59-95	60-22	60-75	60-41	60-82	60-87	61-06	60-90
13.....	59-37	59-51	59-52	59-74	59-80	60-34	60-79	60-42	60-36	60-99	61-08	60-88
14.....	59-39	59-51	59-53	59-74	59-65	60-27	60-76	60-38	60-46	60-97	60-84	60-90
15.....	59-39	59-50	59-52	59-70	59-62	60-09	60-78	60-30	60-53	61-18	60-71	60-89
16.....	59-41	59-49	59-52	59-71	59-68	60-10	60-77	60-43	60-46	61-11	60-82	60-88
17.....	59-41	59-48	59-53	59-72	59-77	60-33	60-79	60-35	60-69	61-34	60-94	60-89
18.....	59-41	59-49	59-52	59-72	59-67	60-21	60-77	60-38	60-70	61-12	60-86	60-93
19.....	59-41	59-48	59-55	59-77	59-87	60-20	60-90	60-66	60-43	61-03	60-79	60-94
20.....	59-42	59-50	59-54	59-74	60-20	60-44	60-84	60-27	60-54	60-96	60-76	60-95
21.....	59-40	59-51	59-56	59-73	60-13	60-80	60-74	60-45	60-60	60-97	60-76	60-96
22.....	59-41	59-50	59-56	59-72	59-70	60-80	60-64	60-37	60-70	60-93	60-75	61-00
23.....	59-42	59-48	59-58	59-75	59-76	60-80	60-64	60-42	59-95	60-99	60-78	60-97
24.....	59-40	59-48	59-61	59-78	60-03	60-69	60-63	60-43	60-16	60-99	60-77	60-92
25.....	59-41	59-50	59-62	59-80	59-98	60-73	60-66	60-49	60-27	60-97	60-84	60-92
26.....	59-42	59-48	59-63	59-76	59-93	60-43	60-62	60-46	60-34	60-93	60-85	60-95
27.....	59-39	59-47	59-64	59-78	59-92	60-59	60-64	60-41	60-54	60-90	60-86	60-99
28.....	59-38	59-46	59-64	59-80	59-90	60-56	60-59	60-34	60-38	60-84	60-84	61-00
29.....	59-39	.....	59-63	59-80	59-96	60-70	60-59	60-43	60-67	60-89	60-83	60-96
30.....	59-39	.....	59-62	59-90	59-90	60-70	60-57	60-46	60-64	60-89	60-86	60-90
31.....	59-41	.....	59-64	.....	59-91	.....	60-50	60-49	.....	61-28	.....	60-92
1927												
1.....	60-90	60-78	60-36	60-00	61-45	62-83	62-55	62-09	60-85	60-43	60-27	60-29
2.....	60-92	60-75	60-33	60-03	61-68	62-87	62-87	61-96	60-64	60-49	60-33	60-38
3.....	60-91	60-76	60-30	60-04	61-89	62-78	62-84	61-91	60-87	60-33	60-35	60-41
4.....	60-90	60-72	60-29	60-10	61-63	62-93	62-90	61-95	60-71	60-54	60-58	60-41
5.....	60-90	60-71	60-28	60-20	61-66	62-75	63-08	61-69	60-76	60-53	60-37	60-38
6.....	60-93	60-72	60-28	60-20	61-71	62-73	63-11	61-94	60-83	60-46	60-40	60-38
7.....	60-96	60-72	60-24	60-29	61-79	62-85	62-75	61-67	60-91	60-31	60-54	60-38
8.....	60-97	60-73	60-26	60-29	62-33	62-92	62-82	61-60	60-79	60-41	60-10	60-37
9.....	60-92	60-70	60-23	60-29	63-19	62-88	62-92	61-62	60-79	60-39	60-52	60-35
10.....	60-92	60-63	60-23	60-25	62-32	62-84	62-74	61-64	60-77	60-44	60-57	60-37
11.....	60-94	60-62	60-24	60-23	62-09	62-22	62-70	61-62	60-74	60-16	60-20	60-35
12.....	60-94	60-64	60-24	60-32	62-15	62-78	62-82	61-60	60-73	60-55	60-03	60-40
13.....	60-89	60-64	60-22	60-38	62-18	62-82	62-81	61-51	60-80	60-53	60-46	60-32
14.....	60-88	60-61	60-30	60-40	62-58	62-76	62-70	61-59	60-60	60-49	60-89	60-41
15.....	60-87	60-62	60-29	60-49	62-40	62-78	62-78	61-58	60-33	60-48	60-84	60-40
16.....	60-86	60-62	60-21	60-56	62-35	62-68	62-95	61-84	60-54	60-50	60-53	60-36
17.....	60-88	60-60	60-19	60-60	62-59	62-67	62-58	61-65	60-31	60-43	60-38	60-36
18.....	60-88	60-56	60-18	60-68	62-62	62-70	62-77	61-43	60-23	60-45	60-39	60-39
19.....	60-86	60-54	60-18	60-75	62-55	62-75	62-55	61-25	60-44	60-48	60-35	60-37
20.....	60-86	60-52	60-16	60-81	62-59	62-75	62-55	61-16	60-44	60-44	60-38	60-41
21.....	60-86	60-51	60-16	60-92	62-79	63-01	62-91	61-12	60-47	60-49	60-37	60-36
22.....	60-85	60-46	60-18	61-04	62-84	62-99	62-65	61-31	60-45	60-50	60-39	60-39
23.....	60-86	60-42	60-13	61-19	62-71	62-90	62-57	61-07	60-47	60-41	60-38	60-41
24.....	60-85	60-42	60-14	61-22	62-66	62-80	62-47	61-00	60-78	60-48	60-38	60-38
25.....	60-81	60-40	60-12	61-33	62-84	62-83	62-55	60-95	60-51	60-46	60-41	60-43
26.....	60-79	60-38	60-10	61-38	62-85	62-77	62-48	60-90	60-47	60-66	60-36	60-39
27.....	60-80	60-38	60-10	61-34	62-81	62-72	62-34	60-87	60-37	60-45	60-44	60-42
28.....	60-77	60-40	60-06	61-40	62-91	62-82	62-38	60-92	60-55	60-59	60-41	60-43
29.....	60-76	.....	60-02	61-41	62-91	62-82	62-20	60-94	60-59	60-75	60-37	60-42
30.....	60-76	.....	60-00	61-45	62-87	62-85	62-20	60-90	60-48	60-38	60-40	60-43
31.....	60-76	.....	60-00	.....	62-85	.....	62-21	60-93	.....	60-52	.....	60-41

## WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	1059.8	1059.6	1059.3	1059.1	1058.6	1059.2	1056.7	1059.9	1059.9	1059.9	1060.1	1060.1
2	59.8	59.6	59.3	59.1	58.6	59.3	57.7	59.9	60.0	59.9	60.1	60.1
3	59.8	59.5	59.3	59.1	58.6	59.3	59.7	59.8	60.0	59.9	60.1	60.1
4	59.8	59.6	59.2	59.1	58.7	59.3	59.8	59.8	60.1	59.9	60.1	60.1
5	59.7	59.6	59.2	59.1	58.7	59.4	59.9	59.8	59.9	60.0	60.1	60.1
6	59.7	59.6	59.2	59.1	58.7	59.4	59.6	59.9	59.9	59.9	60.2	60.1
7	59.7	59.5	59.1	59.1	58.7	59.3	59.7	59.9	59.8	59.8	60.2	60.1
8	59.7	59.5	59.1	59.1	58.8	59.3	59.7	59.8	59.9	59.9	60.2	60.1
9	59.7	59.6	59.1	59.1	58.8	59.3	59.7	59.8	59.9	59.9	60.3	60.1
10	59.7	59.6	59.1	59.1	58.7	59.3	59.8	59.8	59.8	59.7	60.3	60.1
11	59.7	59.6	59.1	59.1	58.7	59.3	59.8	59.8	60.0	59.7	60.2	60.1
12	59.7	59.6	59.1	59.1	58.7	59.3	59.8	59.9	59.9	59.4	60.2	60.1
13	59.7	59.6	59.1	59.1	58.7	59.3	59.8	59.9	59.7	59.7	60.2	60.1
14	59.7	59.6	59.1	59.1	58.8	59.4	59.8	59.9	59.8	59.7	60.1	60.1
15	59.7	59.6	59.1	59.1	58.8	59.4	59.8	59.9	59.8	59.8	60.1	60.1
16	59.6	59.6	59.1	59.1	58.8	59.4	59.9	59.9	59.9	59.8	60.1	60.1
17	59.6	59.6	59.1	59.1	58.9	59.4	59.8	60.0	59.9	59.9	60.1	60.1
18	59.6	59.5	59.1	59.1	58.9	59.4	59.8	60.0	59.8	59.8	60.1	60.1
19	59.6	59.5	59.1	59.0	58.9	59.5	59.9	59.8	60.0	59.9	60.1	60.2
20	59.6	59.5	59.1	59.0	59.0	59.7	59.9	59.9	59.9	59.9	60.1	60.2
21	59.6	59.5	59.1	59.0	59.1	59.6	59.9	59.9	59.9	59.9	60.1	60.2
22	59.6	59.4	59.1	59.0	59.1	59.6	59.9	60.0	60.0	60.0	60.1	60.2
23	59.6	59.4	59.1	59.0	59.1	59.5	59.9	60.1	59.9	60.1	60.1	60.2
24	59.6	59.4	59.1	58.9	59.3	59.5	59.8	60.1	59.9	60.2	60.1	60.2
25	59.6	59.4	59.1	58.9	59.3	59.5	59.8	60.1	60.0	60.2	60.1	60.3
26	59.6	59.4	59.1	58.9	59.3	59.6	59.8	59.9	60.0	60.1	60.1	60.3
27	59.6	59.4	59.1	58.8	59.2	59.6	59.8	59.8	59.8	60.1	60.1	60.3
28	59.6	59.4	59.1	58.8	59.3	59.6	59.8	60.1	59.8	60.3	60.1	60.3
29	59.6	59.4	59.1	58.7	59.3	59.6	59.9	60.1	59.8	60.2	60.1	60.3
30	59.6	59.4	59.1	58.7	59.3	59.6	59.9	59.8	59.8	60.1	60.1	60.3
31	59.6	59.4	59.1	58.7	59.4	59.4	59.8	59.9	60.1	60.1	60.1	60.3
1910												
1	1030.3	1030.6	1030.8	1031.1	1031.4	1031.0	1030.7	1059.9	1059.4	1059.1	1058.1	1058.2
2	60.3	60.6	60.8	61.1	61.6	60.9	60.7	59.9	59.5	59.1	58.2	58.2
3	60.3	60.6	60.8	61.1	61.5	60.8	60.6	59.8	59.5	59.1	58.1	58.2
4	60.3	60.7	60.8	61.1	61.5	60.8	60.6	59.8	59.4	59.2	58.3	58.2
5	60.3	60.7	60.8	61.2	61.5	60.8	60.5	59.7	59.4	59.2	58.2	58.2
6	60.3	60.7	60.8	61.2	61.4	60.8	60.5	59.7	59.4	59.1	58.2	58.2
7	60.3	60.7	60.8	61.2	61.5	60.8	60.5	59.8	59.5	59.1	58.2	58.2
8	60.3	60.7	60.8	61.2	61.3	60.8	60.4	59.6	59.4	59.1	58.3	58.2
9	60.3	60.7	60.8	61.2	61.1	60.7	60.4	59.7	59.4	58.9	58.3	58.2
10	60.3	60.7	60.8	61.2	61.1	60.8	60.4	59.7	59.4	58.9	58.1	58.2
11	60.3	60.7	60.8	61.3	61.2	60.8	60.4	59.7	59.6	58.8	58.1	58.2
12	60.3	60.7	60.8	61.3	61.3	60.7	60.4	59.5	59.5	58.8	57.9	58.2
13	60.3	60.7	60.8	61.2	61.3	60.7	60.3	59.5	59.5	58.8	57.8	58.2
14	60.3	60.7	60.8	61.2	61.4	60.8	60.3	59.4	59.4	58.7	58.0	58.2
15	60.3	60.7	60.8	61.2	61.3	60.8	60.2	59.6	59.4	58.7	58.0	58.2
16	60.3	60.7	60.8	61.2	61.3	60.8	60.2	59.6	59.4	58.7	58.2	58.2
17	60.3	60.7	60.8	61.3	61.2	60.9	60.2	59.6	59.4	58.7	58.1	58.2
18	60.4	60.7	60.8	61.4	61.2	60.8	60.2	59.6	59.4	58.6	58.2	58.2
19	60.4	60.7	60.8	61.4	61.2	60.8	60.1	59.5	59.4	58.1	58.3	58.2
20	60.4	60.8	60.8	61.6	61.1	60.7	60.1	59.5	59.3	58.3	58.2	58.2
21	60.4	60.8	60.8	61.7	61.1	60.8	60.1	59.6	59.3	58.2	58.2	58.2
22	60.4	60.8	60.9	61.2	61.2	60.8	60.0	59.5	59.3	58.2	58.2	58.2
23	60.5	60.8	60.9	61.1	61.1	60.8	60.0	59.4	59.3	58.2	58.1	58.2
24	60.5	60.8	60.9	61.3	61.0	60.7	60.5	59.6	59.3	58.1	58.1	58.2
25	60.5	60.8	61.0	61.6	61.1	60.7	59.9	59.5	59.3	58.2	58.2	58.2
26	60.5	60.8	61.0	61.5	61.1	60.8	59.9	59.5	59.2	58.1	58.2	58.2
27	60.5	60.8	61.1	61.5	61.4	60.7	59.9	59.5	59.4	58.1	58.2	58.2
28	60.5	60.8	61.1	61.5	61.3	60.7	60.0	59.4	59.3	58.1	58.2	58.2
29	60.5	60.8	61.1	61.4	61.2	60.7	59.8	59.6	59.1	57.9	58.2	58.2
30	60.5	60.8	61.1	61.5	60.9	60.7	59.8	59.5	59.3	58.0	58.2	58.2
31	60.5	60.8	61.1	61.5	60.9	60.7	59.8	59.5	59.3	58.1	58.2	58.2

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued.

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1.....	1058-26	1057-91	1057-76	1057-16	1057-26	1057-31	1057-56	1057-06	1056-86	1056-86	1056-86	1056-81
2.....	58-26	57-91	57-76	57-11	57-21	57-31	57-46	56-96	56-96	56-76	56-86	56-81
3.....	58-21	57-91	57-66	57-11	57-16	57-36	57-46	56-96	57-06	56-76	56-96	56-81
4.....	58-21	57-91	57-66	57-11	57-16	57-36	57-56	56-96	56-96	56-66	56-96	56-76
5.....	58-21	57-91	57-66	57-06	57-21	57-41	57-46	57-16	56-56	56-86	56-86	56-76
6.....	58-21	57-91	57-61	57-06	57-06	57-41	57-46	57-16	56-66	56-86	56-86	56-76
7.....	58-16	57-86	57-61	57-01	56-96	57-36	57-46	57-06	56-76	56-96	56-96	56-76
8.....	58-16	57-86	57-56	57-01	57-06	57-46	57-66	57-06	56-96	56-96	56-86	56-76
9.....	58-16	57-86	57-56	56-96	57-06	57-46	57-66	57-01	56-86	56-96	56-86	56-76
10.....	58-16	57-86	57-56	56-96	57-16	57-46	57-76	57-16	56-76	56-91	56-86	56-76
11.....	58-16	57-86	57-56	56-96	57-16	57-41	57-46	57-06	56-66	56-91	56-86	56-76
12.....	58-16	57-86	57-56	57-01	57-10	57-36	57-36	57-06	56-96	56-86	56-86	56-76
13.....	58-16	57-86	57-51	57-01	57-26	57-46	57-36	57-06	56-86	56-96	56-86	56-76
14.....	58-16	57-86	57-51	57-06	57-26	57-56	57-46	57-06	56-86	56-96	56-86	56-76
15.....	58-16	57-86	57-51	57-06	57-16	57-46	57-46	57-06	56-96	56-96	56-86	56-76
16.....	58-06	57-86	57-46	57-11	57-16	57-46	57-36	57-01	56-96	56-76	56-86	56-76
17.....	58-06	57-81	57-46	57-11	57-26	57-46	57-26	57-06	56-86	56-76	56-86	56-76
18.....	58-01	57-81	57-41	57-16	57-26	57-46	57-26	57-06	57-16	56-86	56-86	56-76
19.....	58-01	57-81	57-41	57-16	57-36	57-46	57-16	56-96	56-96	56-86	56-86	56-76
20.....	58-01	57-81	57-36	57-06	57-36	57-56	57-26	56-96	56-86	56-86	56-86	56-76
21.....	57-96	57-76	57-36	57-06	57-36	57-56	57-16	56-96	56-96	56-86	56-86	56-76
22.....	57-96	57-76	57-36	57-11	57-26	57-41	57-16	56-86	56-66	56-96	56-86	56-76
23.....	57-96	57-76	57-36	57-16	57-16	57-46	56-96	56-96	56-46	56-76	56-86	56-76
24.....	57-96	57-76	57-31	57-26	57-21	57-46	56-86	57-06	56-76	56-86	56-86	56-76
25.....	57-96	57-76	57-31	57-26	57-36	57-56	56-86	57-06	56-76	56-86	56-86	56-76
26.....	57-96	57-76	57-26	57-26	57-36	57-51	57-06	57-06	57-06	56-86	56-86	56-76
27.....	57-91	57-76	57-26	57-26	57-46	57-31	57-06	56-96	56-54	56-86	56-86	56-76
28.....	57-91	57-76	57-21	57-26	57-26	57-66	56-96	56-16	56-76	56-86	56-86	56-76
29.....	57-91	.....	57-21	57-16	57-31	57-61	56-16	56-86	56-86	56-76	56-86	56-76
30.....	57-91	.....	57-16	57-16	57-36	57-41	56-96	56-86	56-86	56-76	56-86	56-76
31.....	57-91	.....	57-16	.....	57-31	.....	56-96	56-86	.....	56-66	.....	56-76
1912												
1.....	56-72	56-72	57-27	57-37	57-72	58-82	58-87	59-22	59-62	60-57	60-72	60-67
2.....	56-72	56-72	57-27	57-37	57-72	58-82	58-92	59-22	59-62	60-62	60-82	60-72
3.....	56-72	56-72	57-27	57-37	57-77	58-62	58-97	59-22	59-72	60-57	60-82	60-67
4.....	56-72	56-77	57-27	57-37	57-77	58-77	58-92	59-22	59-72	60-57	60-67	60-67
5.....	56-72	56-77	57-27	57-37	57-77	58-77	58-97	59-42	59-67	60-52	60-77	60-62
6.....	56-72	56-82	57-27	57-37	57-82	58-62	59-07	59-47	59-87	60-52	60-87	60-62
7.....	56-72	56-82	57-27	57-37	57-82	58-82	59-02	59-47	59-72	60-82	60-82	60-62
8.....	56-72	56-87	57-27	57-42	57-87	58-92	58-92	59-37	59-77	60-72	60-57	60-62
9.....	56-72	56-87	57-32	57-42	57-87	59-02	58-97	59-42	59-77	60-42	60-87	60-62
10.....	56-72	56-87	57-32	57-42	57-92	58-92	58-97	59-42	59-77	60-62	60-72	60-62
11.....	56-72	56-87	57-32	57-42	57-92	58-87	59-02	59-47	59-87	60-72	60-62	60-62
12.....	56-72	56-92	57-32	57-42	58-02	58-87	59-02	59-57	59-87	60-72	60-62	60-62
13.....	56-72	56-92	57-32	57-42	58-07	58-92	58-97	59-52	59-97	60-92	60-72	60-62
14.....	56-72	57-02	57-32	57-42	58-07	58-92	59-07	59-42	59-92	60-62	60-87	60-62
15.....	56-72	57-02	57-32	57-47	58-12	58-92	58-17	59-52	59-82	60-87	60-92	60-62
16.....	56-72	57-02	57-32	57-47	58-22	58-92	.....	59-57	59-97	60-92	60-62	60-62
17.....	56-72	57-02	57-12	57-47	58-27	58-92	59-12	59-47	59-92	60-82	60-62	60-62
18.....	56-67	57-07	57-12	57-47	58-27	58-62	59-27	59-52	.....	.....	60-92	60-57
19.....	56-67	57-07	57-12	57-52	58-32	58-77	59-07	59-52	59-97	60-77	60-82	60-57
20.....	56-67	57-07	57-12	57-52	58-32	58-77	59-12	59-52	60-02	60-92	60-82	60-57
21.....	56-67	57-07	57-12	57-57	58-42	58-92	59-22	59-62	60-12	60-67	60-82	60-57
22.....	56-67	57-12	57-12	57-57	58-42	58-92	59-22	59-42	60-02	60-72	60-72	60-57
23.....	56-67	57-12	57-37	57-57	58-47	58-87	59-27	59-62	60-02	61-07	60-52	60-57
24.....	56-67	57-17	57-37	57-57	58-52	58-92	59-12	59-52	59-62	60-82	60-82	60-57
25.....	56-67	57-22	57-37	57-62	58-52	58-62	59-17	59-52	59-72	60-82	60-67	60-57
26.....	56-67	57-22	57-37	57-62	58-52	58-87	59-22	59-47	60-12	60-62	60-52	60-57
27.....	56-67	57-22	57-37	57-62	58-57	58-92	59-27	59-57	60-42	60-82	60-62	60-57
28.....	56-67	57-27	57-37	57-67	58-32	58-92	59-22	59-52	60-32	60-62	61-07	60-57
29.....	56-67	57-27	57-37	57-67	58-82	58-92	59-27	59-62	60-62	60-22	60-62	60-57
30.....	56-67	.....	57-37	57-67	58-77	58-92	59-22	59-67	60-42	60-77	60-62	60-57
31.....	56-67	.....	57-37	.....	58-77	.....	59-22	59-72	.....	60-62	.....	60-57



## WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	1060-53	1060-38	1060-38	1060-48	1060-93	1060-98	1060-62	1060-96	1060-62	1060-01	1060-23	1060-13
2	60-53	60-38	60-38	60-43	60-93	60-98	60-70	60-94	60-52	59-97	60-27	60-09
3	60-53	60-38	60-38	60-43	61-03	60-88	60-86	60-84	60-47	60-07	59-99	60-17
4	60-53	60-38	60-38	60-43	61-18	61-08	60-57	60-86	60-52	59-86	60-17	60-25
5	60-53	60-38	60-38	60-48	61-08	60-98	60-46	60-70	60-47	59-51	60-33	60-10
6	60-53	60-38	60-38	60-48	61-08	60-58	60-70	60-78	60-39	59-89	60-10	60-10
7	60-53	60-38	60-38	60-48	61-08	60-88	60-70	61-04	60-42	60-14	59-95	59-85
8	60-53	60-38	60-38	60-48	60-88	60-98	60-71	60-90	60-37	59-88	59-95	59-87
9	60-53	60-38	60-38	60-48	61-03	61-08	60-31	60-78	60-71	59-95	59-95	60-13
10	60-53	60-38	60-43	60-48	61-08	61-14	60-71	60-74	60-40	60-15	59-98	60-09
11	60-53	60-38	60-43	60-53	61-28	61-16	60-95	60-94	60-37	60-11	60-25	60-10
12	60-48	60-38	60-38	60-58	61-08	61-06	60-77	60-88	60-26	60-07	60-06	60-08
13	60-48	60-33	60-38	60-58	60-98	60-97	60-80	60-81	60-22	60-10	60-13	60-10
14	60-48	60-33	60-38	60-63	61-08	60-98	60-82	60-77	60-54	60-17	60-07	60-12
15	60-48	60-33	60-38	60-63	60-98	60-96	60-96	60-72	60-27	60-07	60-08	60-09
16	60-48	60-33	60-38	60-68	61-08	60-98	60-96	60-70	60-17	60-07	60-30	60-11
17	60-48	60-33	60-43	60-73	60-93	60-80	60-91	60-67	60-19	60-24	60-12	60-08
18	60-48	60-33	60-38	60-78	60-98	60-89	60-91	60-76	60-37	60-10	59-97	60-09
19	60-48	60-38	60-38	60-78	61-03	60-77	60-87	60-93	60-44	59-93	60-17	60-07
20	60-43	60-38	60-38	60-83	61-03	60-77	61-07	60-80	59-67	59-90	60-14	60-07
21	60-43	60-38	60-38	60-88	60-93	60-78	61-08	60-85	59-59	60-09	60-03	60-11
22	60-38	60-38	60-38	60-88	61-03	60-86	61-00	60-79	60-05	60-22	60-06	60-09
23	60-38	60-38	60-43	60-93	61-08	61-06	61-07	60-82	60-07	60-10	60-26	60-06
24	60-38	60-38	60-43	60-93	60-88	60-93	60-99	60-80	59-78	60-06	60-09	60-08
25	60-38	60-38	60-43	60-98	61-08	60-85	61-12	60-92	60-97	60-09	60-06	60-07
26	60-38	60-38	60-43	60-98	61-13	60-66	60-84	60-55	61-05	60-07	60-04	60-06
27	60-38	60-38	60-43	60-98	60-98	60-51	60-86	60-70	60-09	60-25	60-16	60-05
28	60-38	60-38	60-48	60-98	60-98	60-78	61-07	60-53	60-15	59-65	60-07	60-11
29	60-38	60-38	60-48	60-98	61-03	60-89	60-95	60-52	59-92	60-03	60-11	60-10
30	60-38	60-38	60-48	60-98	60-88	60-92	60-95	60-60	60-06	60-11	60-12	60-07
31	60-38	60-38	60-48	60-98	61-08	60-92	60-91	60-55	60-19	60-19	60-19	60-06
1914												
1	1060-05	1060-10	1060-08	1059-94	1060-18	1061-02	1061-07	1060-92	1060-36	1060-51	1060-59	1060-69
2	60-05	60-08	60-10	59-92	60-22	61-07	61-19	60-92	60-39	60-50	60-86	60-75
3	60-06	60-08	60-05	59-95	60-25	61-00	61-22	61-03	59-98	60-47	60-76	60-72
4	60-09	60-08	60-05	59-94	60-29	60-90	61-22	60-89	60-27	60-42	60-53	60-69
5	60-08	60-09	60-01	59-97	60-30	61-07	61-08	60-91	60-20	60-39	60-59	60-75
6	60-05	60-12	60-00	59-97	60-36	60-99	61-25	60-62	60-16	60-42	60-83	60-77
7	60-06	60-09	60-02	59-91	60-37	61-05	60-87	60-75	60-21	60-35	60-48	60-76
8	60-05	60-13	60-06	59-91	60-47	61-05	61-13	60-70	60-22	60-37	60-81	60-69
9	60-06	60-12	60-06	59-44	60-52	61-17	61-15	60-76	60-35	60-42	60-87	60-75
10	60-06	60-07	59-97	59-87	60-52	61-27	60-98	60-42	60-32	60-34	60-68	60-77
11	60-11	60-08	60-00	59-90	60-45	61-22	61-07	60-60	60-28	60-47	60-59	60-77
12	60-06	60-09	60-00	59-86	60-52	61-27	61-27	60-65	60-43	60-41	60-86	60-79
13	59-98	60-09	60-02	59-92	60-50	61-27	61-07	60-51	60-62	60-53	60-67	60-76
14	60-05	60-09	59-97	59-89	60-50	61-29	61-09	60-46	60-37	60-76	60-59	60-76
15	60-06	60-12	60-05	59-87	60-57	61-27	61-29	60-57	60-42	60-52	60-57	60-77
16	60-04	60-11	59-97	59-84	60-60	61-32	61-37	60-53	60-38	60-67	60-58	60-79
17	60-06	60-07	59-95	59-87	60-70	61-39	60-89	60-48	60-41	60-54	60-67	60-79
18	60-08	60-08	59-92	59-89	60-70	61-09	61-22	60-42	60-51	60-79	60-65	60-79
19	60-06	60-08	59-93	59-98	60-57	61-25	61-25	60-61	60-56	60-66	60-64	60-80
20	60-04	60-09	59-95	59-99	60-69	61-47	61-25	60-38	60-55	60-65	60-72	60-77
21	60-06	60-08	59-92	59-97	60-70	61-17	61-17	60-37	60-43	60-62	60-56	60-82
22	60-06	60-08	59-94	59-95	60-72	61-37	61-05	60-37	60-27	60-68	60-74	60-79
23	60-07	60-10	59-95	60-00	60-73	61-39	61-11	60-13	60-46	60-40	60-79	60-82
24	60-08	60-09	59-92	60-02	60-86	61-17	61-08	60-26	60-30	60-75	60-72	60-77
25	60-07	60-07	59-87	60-02	60-92	61-08	61-08	60-21	60-49	60-52	60-75	60-79
26	60-07	60-07	59-92	60-15	60-88	61-12	61-17	60-27	60-42	60-43	60-67	60-77
27	60-06	60-08	59-94	60-10	60-87	60-99	61-05	60-35	60-50	60-82	60-72	60-80
28	60-05	60-06	59-94	60-02	60-87	61-17	61-07	60-45	60-47	60-55	60-72	60-80
29	60-08	60-08	59-94	60-02	60-87	61-17	61-15	60-42	60-39	60-64	60-76	60-76
30	60-08	60-08	59-94	60-02	60-98	61-17	61-07	60-37	60-47	60-74	60-72	60-77
31	60-09	60-09	59-93	60-02	60-98	61-17	60-90	60-37	60-37	60-72	60-72	60-76

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1	1060-79	1060-72	1060-77	1060-68	1060-74	1061-02	1061-70	1061-21	1060-59	1060-35	1060-02	1060-17
2	60-76	60-74	60-74	60-69	60-83	60-95	61-69	61-20	60-58	60-44	60-04	60-20
3	60-81	60-74	60-75	60-68	60-67	60-91	61-68	61-24	60-67	60-22	60-17	60-15
4	60-81	60-73	60-71	60-67	60-82	60-97	61-54	61-13	60-67	59-92	60-02	60-15
5	60-75	60-75	60-68	60-70	60-84	61-19	61-60	61-11	60-67	60-34	60-27	60-20
6	60-76	60-76	60-67	60-72	60-71	60-82	61-72	61-10	60-57	60-13	60-12	60-15
7	60-74	60-82	60-74	60-74	60-89	60-82	61-72	61-05	60-52	59-82	60-00	60-19
8	60-74	60-82	60-76	60-74	60-46	60-72	61-69	61-07	60-65	59-94	60-12	60-17
9	60-74	60-78	60-72	60-76	61-04	60-92	61-75	61-08	60-54	60-47	60-12	60-20
10	60-82	60-75	60-72	60-77	60-93	61-01	61-80	61-07	60-41	60-27	60-44	60-17
11	60-78	60-74	60-72	60-75	61-01	60-89	61-80	61-09	60-39	60-21	60-19	60-19
12	60-75	60-74	60-72	60-77	60-95	60-95	61-75	61-00	60-53	60-36	60-39	60-20
13	60-78	60-74	60-69	60-72	61-02	60-69	61-76	60-99	60-37	60-25	60-17	60-22
14	60-73	60-79	60-71	60-68	61-01	61-15	61-57	60-92	60-29	60-25	60-12	60-17
15	60-69	60-82	60-70	60-69	60-92	60-97	61-67	60-87	60-50	60-33	60-17	60-19
16	60-68	60-74	60-69	60-74	60-82	60-74	61-67	60-72	60-52	60-25	60-20	60-22
17	60-77	60-75	60-74	60-72	60-72	61-15	61-48	60-87	60-38	60-28	60-27	60-22
18	60-82	60-77	60-65	60-77	61-02	61-05	61-60	60-85	60-21	60-25	60-27	60-22
19	60-74	60-76	60-69	60-77	61-04	61-09	61-57	60-77	60-46	60-35	59-97	60-24
20	60-75	60-76	60-68	60-70	61-00	61-32	61-54	60-76	59-75	60-17	60-17	60-24
21	60-78	60-82	60-72	60-70	61-00	61-35	61-56	60-68	60-29	60-18	59-97	60-24
22	60-76	60-82	60-72	60-68	61-07	61-09	61-60	60-75	60-41	60-17	60-21	60-24
23	60-78	60-74	60-69	60-69	61-14	61-32	61-44	60-82	60-28	60-12	60-17	60-24
24	60-82	60-72	60-72	60-77	61-05	61-30	61-51	60-52	60-17	60-25	60-17	60-24
25	60-82	60-72	60-68	60-87	60-89	61-39	61-52	60-48	60-26	60-32	60-07	60-27
26	60-75	60-72	60-70	60-80	61-05	61-32	61-48	60-68	60-07	59-99	60-17	60-27
27	60-77	60-73	60-68	60-82	61-16	61-55	61-42	60-83	60-29	60-39	60-15	60-27
28	60-72	60-77	60-70	60-82	61-05	61-60	61-42	60-70	60-37	60-02	60-22	60-23
29	60-74	.....	60-72	60-76	61-00	61-52	61-47	60-55	60-34	60-14	60-12	60-23
30	60-74	.....	60-68	60-75	61-01	61-64	61-38	60-73	60-34	60-15	60-17	60-23
31	.....	.....	60-68	.....	61-00	.....	61-28	60-67	.....	60-22	.....	60-23
1916												
1	1060-23	1060-49	1060-23	1060-11	1061-72	1063-07	1063-82	1063-47	1061-99	1061-27	1060-65	1060-14
2	60-28	60-47	60-25	60-12	61-77	63-07	63-82	63-40	62-01	60-90	60-61	60-09
3	60-27	60-49	60-27	60-12	61-79	63-19	63-84	63-36	62-07	60-99	60-70	60-15
4	60-24	60-51	60-19	60-11	61-85	63-07	63-86	63-26	61-87	61-18	60-59	60-08
5	60-29	60-51	60-22	60-10	61-90	63-25	63-88	63-18	62-05	61-10	60-79	60-09
6	60-27	60-51	60-17	60-09	61-87	63-40	63-83	63-27	61-96	61-18	60-89	60-02
7	60-24	60-51	60-18	60-09	61-99	63-32	63-75	63-15	61-92	60-96	60-85	60-02
8	60-27	60-45	60-23	60-09	62-02	63-24	63-81	63-16	61-91	61-00	60-67	60-09
9	60-27	60-48	60-22	60-13	62-07	63-30	63-92	63-25	61-94	60-72	60-53	60-10
10	60-28	60-46	60-22	60-10	62-14	63-35	63-90	63-07	62-45	61-00	60-37	60-12
11	60-33	60-44	60-22	60-10	61-92	63-44	63-78	62-88	62-23	60-97	60-47	60-07
12	60-33	60-41	60-25	60-07	62-12	63-46	63-80	62-83	61-87	60-73	60-54	60-07
13	60-37	60-45	60-20	60-14	62-14	63-54	63-74	62-89	61-85	60-77	60-50	60-09
14	60-37	60-42	60-18	60-20	62-09	63-50	63-82	62-97	61-60	60-77	60-44	60-09
15	60-38	60-42	60-20	60-27	61-72	63-40	63-77	62-79	61-57	60-72	60-54	60-10
16	60-40	60-37	60-15	60-35	61-97	63-32	63-67	62-79	61-56	60-40	60-37	60-07
17	60-35	60-37	60-17	60-45	62-21	63-39	63-71	62-73	61-57	60-69	60-43	60-10
18	60-38	60-35	60-17	60-52	62-40	63-39	63-88	62-66	61-71	60-52	60-41	60-07
19	60-37	60-32	60-20	60-60	62-48	63-44	63-92	62-68	61-57	60-37	60-36	60-05
20	60-41	60-33	60-15	60-69	62-53	63-44	63-87	62-67	61-47	60-52	60-30	60-08
21	60-37	60-37	60-17	60-80	62-62	63-50	63-79	62-58	61-27	60-66	60-40	60-10
22	60-42	60-30	60-15	61-96	62-64	63-51	63-76	62-58	61-31	60-47	60-48	60-07
23	60-38	60-32	60-13	61-10	62-65	63-62	63-87	62-50	61-52	60-59	60-12	60-08
24	60-37	60-27	60-16	61-22	62-70	63-51	63-66	62-34	61-42	60-88	60-22	60-07
25	60-32	60-27	60-18	61-22	62-69	63-64	63-58	62-27	61-54	60-27	60-25	60-07
26	60-28	60-27	60-19	61-32	63-82	63-56	63-57	62-31	61-53	60-74	60-29	59-99
27	60-33	60-30	60-17	61-45	63-07	63-68	63-53	62-30	61-21	60-57	60-16	60-07
28	60-37	60-25	60-14	61-57	62-99	63-70	63-58	62-39	61-11	60-60	60-14	60-05
29	60-41	60-23	60-10	61-55	62-88	63-73	63-47	62-08	61-33	60-64	60-16	60-07
30	60-51	.....	60-08	61-67	62-92	63-93	63-50	62-26	61-43	60-68	60-15	60-05
31	60-49	.....	60-09	.....	63-17	.....	63-39	62-02	.....	60-60	.....	60-09

## WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1.	1060-10	1059-84	1059-49	1058-97	1059-02	1059-44	1059-40	1059-87	1059-81	1059-81	105-961	1059-52
2.	60-07	59-85	59-44	58-85	59-07	59-24	59-20	59-70	59-74	59-58	59-59	59-65
3.	60-02	59-82	59-45	58-85	59-08	59-32	59-44	59-93	59-69	59-63	59-56	59-55
4.	60-04	59-85	59-52	58-80	59-08	59-27	59-55	60-04	59-80	59-44	59-75	59-56
5.	60-03	59-82	59-42	58-77	59-11	59-30	59-66	59-79	59-77	59-53	59-55	59-55
6.	60-02	59-77	59-38	58-77	59-19	59-27	59-57	59-91	59-75	59-91	59-56	59-54
7.	60-07	59-76	59-36	58-75	59-16	59-28	59-62	59-89	59-83	59-07	59-62	59-56
8.	60-01	59-76	59-38	58-82	59-16	59-37	59-57	59-80	59-54	59-58	59-58	59-56
9.	59-98	59-74	59-36	58-74	59-20	59-37	59-45	59-82	59-59	59-55	59-62	59-57
10.	60-02	59-73	59-30	58-72	59-23	59-43	59-68	59-81	59-77	59-75	59-57	59-56
11.	60-04	59-74	59-34	58-70	59-24	59-40	59-47	59-86	59-77	59-11	59-57	59-55
12.	60-00	59-72	59-26	58-70	59-26	59-68	59-58	59-84	59-76	59-34	59-62	59-55
13.	60-02	59-67	59-25	58-70	59-31	59-52	59-62	59-84	59-64	59-70	59-65	59-55
14.	60-05	59-65	59-22	58-70	59-34	59-02	59-59	59-97	59-07	59-53	59-57	59-56
15.	60-05	59-62	59-22	58-75	59-35	59-43	59-63	59-79	59-69	59-46	59-62	59-54
16.	60-08	59-56	59-20	58-70	59-33	59-47	59-68	59-80	59-72	59-50	59-58	59-57
17.	60-02	59-60	59-17	58-72	59-28	59-39	59-70	59-94	59-71	59-39	59-47	59-54
18.	60-02	59-66	59-23	58-72	59-37	59-36	59-80	59-81	59-74	58-92	59-55	59-57
19.	59-96	59-60	59-12	58-75	59-18	59-12	59-66	59-87	59-51	59-56	59-57	59-53
20.	59-98	59-56	59-13	58-77	59-37	59-47	59-77	59-78	59-75	59-52	59-54	59-51
21.	59-96	59-55	59-10	58-80	59-33	59-15	59-76	60-02	59-70	59-77	59-38	59-52
22.	59-98	59-60	59-05	58-88	59-27	59-36	59-64	59-87	59-80	59-13	59-52	59-55
23.	59-91	59-57	59-03	58-82	59-29	59-37	59-73	59-39	59-83	59-75	59-38	59-56
24.	59-93	59-55	59-00	58-84	59-34	59-40	59-90	59-60	59-92	59-71	59-38	59-57
25.	59-92	59-59	59-12	58-84	59-35	59-46	59-77	59-80	59-82	59-64	59-55	59-57
26.	59-90	59-54	58-99	58-88	59-14	59-31	59-79	59-79	59-64	59-61	59-80	59-57
27.	59-90	59-53	58-99	58-91	59-39	59-47	59-89	59-70	59-74	59-77	59-61	59-53
28.	59-94	59-50	58-96	58-96	59-47	59-40	59-90	59-70	59-60	59-62	59-60	59-53
29.	59-94		58-95	59-02	59-36	59-44	59-84	59-84	59-54	59-51	59-60	59-57
30.	59-88		58-93	59-01	59-05	59-62	59-90	60-09	59-57	59-54	59-52	59-55
31.	59-85		58-93		59-09		59-77	59-82		59-57		59-57
1918												
1.	1059-57	1059-54	1059-36	1059-08	1059-22	1059-62	1059-88	1059-78	1059-97	1059-88	1059-70	1059-80
2.	59-57	59-49	59-34	59-06	59-14	59-68	59-85	59-97	59-84	59-55	59-22	59-82
3.	59-57	59-53	59-35	59-07	59-10	59-69	59-80	60-17	59-85	59-86	59-62	59-83
4.	59-57	59-49	59-24	59-06	59-23	59-75	59-88	59-92	59-91	59-61	59-82	59-82
5.	59-57	59-48	59-25	59-06	59-24	59-80	59-85	59-87	59-98	59-56	59-86	59-80
6.	59-57	59-48	59-28	59-04	59-07	59-51	59-76	59-95	59-83	59-75	59-60	59-86
7.	59-57	59-47	59-29	59-08	59-25	59-79	59-84	59-84	59-93	59-99	59-72	59-86
8.	59-57	59-47	59-29	59-07	59-32	59-70	59-81	59-98	60-07	59-74	59-57	59-88
9.	59-57	59-50	59-22	59-12	59-10	59-80	59-67	60-02	59-70	59-74	59-62	59-82
10.	59-57	59-51	59-28	59-13	59-24	59-84	59-80	60-08	60-02	59-65	60-00	59-85
11.	59-57	59-44	59-19	59-10	59-34	59-60	59-81	59-87	59-79	59-76	60-02	59-89
12.	59-57	59-46	59-24	59-09	59-17	59-81	59-80	59-85	59-91	59-64	59-80	59-89
13.	59-64	59-42	59-19	59-09	59-45	59-84	59-98	59-91	59-89	59-60	59-82	59-90
14.	59-60	59-41	59-20	59-13	59-24	59-77	59-86	59-94	59-80	59-69	59-89	59-89
15.	59-60	59-45	59-22	59-08	59-26	59-99	59-79	59-90	59-67	59-62	59-82	59-92
16.	59-62	59-42	59-18	59-07	59-40	59-64	59-81	59-88	59-75	59-63	59-80	59-89
17.	59-60	59-47	59-18	59-11	59-41	59-80	59-84	59-99	59-78	59-50	59-85	59-88
18.	59-54	59-39	59-15	59-10	59-32	59-81	59-84	60-09	59-75	59-77	59-58	59-90
19.	59-57	59-39	59-13	59-13	59-55	59-92	59-83	60-07	59-51	59-86	59-70	59-90
20.	59-61	59-43	59-11	59-17	59-29	59-92	59-92	60-02	59-79	59-59	59-67	59-91
21.	59-58	59-43	59-14	59-20	59-45	59-42	59-74	59-99	59-89	59-74	59-59	59-88
22.	59-56	59-42	59-12	59-11	59-45	59-82	59-76	60-10	59-88	59-62	59-80	59-92
23.	59-51	59-40	59-14	59-08	59-45	60-06	59-82	60-01	59-65	59-57	59-97	59-92
24.	59-56	59-43	59-15	59-20	59-54	59-69	59-72	60-10	59-72	59-35	59-85	59-92
25.	59-54	59-40	59-08	59-24	59-42	59-80	59-73	59-84	59-68	59-52	59-78	59-93
26.	59-52	59-36	59-07	58-91	59-40	59-99	59-80	60-00	59-77	59-66	60-00	59-90
27.	59-58	59-41	59-04	59-04	59-45	60-05	59-83	59-89	59-75	59-70	60-01	59-90
28.	59-54	59-37	59-01	59-05	59-52	59-83	60-02	60-23	59-56	59-53	59-77	59-91
29.	59-53		59-03	58-66	59-58	59-76	59-81	60-02	59-56	59-58	59-74	59-88
30.	59-52		59-07	59-22	59-61	59-71	60-02	59-88	59-60	59-60	59-72	59-84
31.	59-52		59-14		59-62		60-03	59-99		59-55		59-87

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1.	1059-92	1060-00	1060-12	1059-75	1059-81	1059-95	1060-63	1060-99	1060-61	1060-02	1059-71	1059-78
2.	59-90	60-02	60-16	59-72	59-87	59-94	60-87	61-07	60-19	60-16	59-67	59-75
3.	59-94	60-03	60-13	59-72	59-79	59-92	61-08	60-98	60-18	60-00	59-32	59-76
4.	59-89	60-02	60-16	59-70	59-73	59-85	61-30	61-00	60-22	59-98	59-45	59-74
5.	59-94	60-03	60-15	59-67	59-84	59-84	61-39	61-01	60-15	60-19	59-69	59-76
6.	59-90	60-03	60-15	59-73	59-87	60-01	61-54	60-84	60-12	59-86	59-57	59-75
7.	59-91	60-03	60-16	59-69	59-84	60-08	61-75	60-63	60-09	60-00	59-61	59-81
8.	59-92	60-03	60-13	59-70	59-93	60-10	61-83	60-76	60-00	60-16	59-64	59-77
9.	59-92	60-03	60-10	59-71	59-96	60-09	61-56	60-74	60-15	59-76	59-57	59-74
10.	59-90	60-03	60-12	59-69	59-97	60-18	61-55	60-86	60-17	59-80	59-43	59-75
11.	59-88	60-03	60-08	59-72	60-03	60-17	61-57	60-81	60-07	59-85	59-76	59-73
12.	59-90	60-03	60-00	59-73	60-06	60-27	61-62	60-91	60-27	59-89	59-60	59-71
13.	59-91	60-02	60-00	59-77	60-19	60-25	61-77	60-67	60-27	59-75	59-65	59-74
14.	59-94	60-02	59-99	59-75	60-11	60-16	61-46	60-63	60-17	59-79	59-66	59-76
15.	59-96	60-02	60-02	59-73	59-98	60-23	61-57	60-72	60-20	59-76	59-68	59-74
16.	59-90	60-06	60-05	59-72	59-95	60-23	61-56	60-59	60-10	59-74	59-72	59-73
17.	59-91	60-05	60-01	59-76	60-02	60-28	61-66	60-62	60-10	59-75	59-74	59-71
18.	59-92	60-03	59-98	59-76	60-04	60-27	61-57	60-68	60-26	59-74	59-70	59-72
19.	59-99	60-05	59-92	59-76	59-92	60-20	61-52	60-82	60-28	59-74	59-72	59-74
20.	59-94	60-05	59-92	59-80	59-98	60-26	61-54	60-69	60-27	59-73	59-73	59-74
21.	59-96	60-07	59-91	59-82	60-00	60-30	61-36	60-62	60-24	59-58	59-74	59-79
22.	59-95	60-10	59-89	59-80	59-96	60-55	61-39	60-76	60-10	59-84	59-73	59-72
23.	59-94	60-15	59-93	59-77	59-92	60-46	61-20	60-55	60-26	59-40	59-74	59-67
24.	59-97	60-09	59-93	59-82	60-02	60-59	61-33	60-49	60-18	59-53	59-70	59-74
25.	60-01	60-13	59-88	59-83	60-02	60-63	61-38	60-46	60-07	59-59	59-68	59-77
26.	60-01	60-13	59-86	59-86	60-00	60-48	61-27	60-39	60-48	59-75	59-75	59-72
27.	60-02	60-12	59-85	59-83	60-07	60-68	61-21	60-33	59-96	59-64	59-76	59-69
28.	60-03	60-11	59-80	59-87	60-07	60-79	61-22	60-40	60-04	59-78	59-75	59-69
29.	60-01	.....	59-76	59-92	60-02	60-81	61-21	60-35	60-03	59-71	59-71	59-69
30.	60-01	.....	59-80	59-87	60-18	60-76	61-01	60-23	60-18	59-60	59-79	59-69
31.	60-00	.....	59-77	.....	60-11	.....	60-97	60-39	.....	59-62	.....	59-72
1920												
1.	1059-74	1059-70	1059-52	1059-34	1059-56	1059-49	1059-87	1059-53	1059-46	1059-34	1059-09	1059-14
2.	59-71	59-66	59-52	59-33	59-57	59-44	59-73	59-03	59-44	59-45	59-12	59-17
3.	59-66	59-62	59-51	59-38	59-58	59-65	59-75	59-72	59-42	59-36	59-11	59-19
4.	59-74	59-66	59-51	59-40	59-57	59-74	60-04	59-53	59-41	59-17	59-05	59-18
5.	59-69	59-65	59-52	59-40	59-57	59-79	59-83	59-69	59-42	59-31	59-18	59-22
6.	59-67	59-64	59-51	59-38	59-58	59-87	59-67	59-61	59-40	59-37	59-09	59-20
7.	59-69	59-63	59-52	59-40	59-54	59-76	59-72	59-65	59-43	59-33	59-26	59-19
8.	59-69	59-65	59-48	59-37	59-58	59-80	59-82	59-71	59-43	59-50	59-07	59-20
9.	59-69	59-65	59-44	59-37	59-59	59-84	59-74	59-64	59-36	59-28	58-82	59-20
10.	59-72	59-63	59-44	59-35	59-52	59-75	59-85	59-55	59-35	59-20	59-02	59-18
11.	59-71	59-62	59-38	59-35	59-48	59-81	60-03	59-45	59-40	59-26	58-96	59-14
12.	59-67	59-61	59-38	59-34	59-48	59-90	59-68	59-59	59-35	59-22	59-11	59-17
13.	59-70	59-59	59-37	59-37	59-48	59-87	59-68	59-75	59-58	59-30	59-19	59-13
14.	59-67	59-60	59-35	59-31	59-50	59-86	59-65	59-79	59-32	59-25	58-92	59-18
15.	59-64	59-62	59-30	59-31	59-49	59-76	59-58	59-51	59-40	59-26	59-20	59-18
16.	59-67	59-60	59-29	59-32	59-51	59-72	59-66	59-52	59-43	59-23	59-35	59-18
17.	59-68	59-57	59-32	59-30	59-52	59-83	59-67	59-62	59-38	59-18	59-05	59-16
18.	59-72	59-61	59-28	59-31	59-52	59-87	59-73	59-77	59-12	59-23	59-13	59-18
19.	59-69	59-55	59-29	59-35	59-47	59-86	59-82	59-78	59-36	59-33	59-09	59-20
20.	59-65	59-57	59-26	59-30	59-40	59-93	59-60	59-48	59-43	59-25	59-05	59-11
21.	59-69	59-59	59-25	59-36	59-42	59-72	59-72	59-42	59-50	59-21	59-09	59-15
22.	59-69	59-60	59-25	59-33	59-45	59-82	59-74	59-68	59-33	59-23	59-10	59-11
23.	59-63	59-57	59-25	59-39	59-51	59-80	59-50	59-62	59-36	59-81	59-10	59-14
24.	59-64	59-59	59-25	59-46	59-57	59-88	59-64	59-55	59-65	59-33	59-09	59-14
25.	59-67	59-56	59-24	59-54	59-48	59-87	59-66	59-56	59-63	59-23	59-17	59-10
26.	59-65	59-59	59-23	59-55	59-51	59-83	59-71	59-54	59-66	59-11	59-15	59-10
27.	59-68	59-54	59-24	59-56	59-40	59-85	59-69	59-55	59-48	59-00	59-12	59-10
28.	59-67	59-58	59-29	59-53	59-58	59-81	59-64	59-47	59-17	59-18	59-18	59-10
29.	59-67	59-60	59-30	59-54	59-61	59-73	59-62	59-43	59-12	59-34	59-20	59-11
30.	59-64	.....	59-33	59-53	59-51	59-78	59-51	59-31	59-39	59-13	59-24	59-12
31.	59-67	.....	59-31	.....	59-55	.....	59-50	59-38	.....	59-03	.....	59-12

## WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1	1059-10	1059-23	1059-15	1059-19	1059-56	1059-45	1059-43	1059-32	1059-34	1059-13	1059-01	1058-85
2	59-19	59-21	59-16	59-18	59-53	59-27	59-61	59-24	59-10	59-10	58-80	58-80
3	59-19	59-24	59-12	59-15	59-53	59-25	59-63	59-30	59-15	59-09	58-95	58-83
4	59-22	59-20	59-10	59-13	59-55	59-40	59-65	59-43	59-20	59-28	58-65	58-85
5	59-20	59-20	59-12	59-18	59-55	59-45	59-38	59-47	59-28	59-02	58-85	58-80
6	59-22	59-28	59-20	59-21	59-53	59-45	59-31	59-32	59-01	58-98	58-85	58-80
7	59-22	59-25	59-20	59-38	59-54	59-37	59-38	59-17	59-07	59-00	58-75	58-82
8	59-25	59-25	59-16	59-32	59-57	59-40	59-42	59-39	58-97	59-26	58-85	58-81
9	59-22	59-22	59-18	59-35	59-48	59-49	59-48	59-32	59-01	59-06	59-10	58-81
10	59-21	59-22	59-17	59-51	59-43	59-46	59-30	59-18	59-14	58-94	58-61	58-83
11	59-20	59-22	59-16	59-51	59-50	59-35	59-29	59-38	59-60	59-00	58-74	58-80
12	59-20	59-19	59-16	59-51	59-46	59-55	59-31	59-31	59-07	59-09	59-01	58-79
13	59-19	59-22	59-18	59-56	59-10	59-46	59-36	59-18	59-05	59-08	58-78	58-81
14	59-16	59-19	59-14	59-54	59-18	59-48	59-26	59-32	59-08	59-03	58-86	58-85
15	59-15	59-18	59-23	59-55	59-29	59-50	59-35	59-40	59-00	58-93	58-77	58-86
16	59-25	59-12	59-19	59-60	59-49	59-50	59-40	59-40	59-10	59-02	58-67	58-84
17	59-26	59-22	59-18	59-62	59-52	59-48	59-49	59-15	59-13	59-02	58-77	58-83
18	59-19	59-17	59-18	59-63	59-40	59-35	59-30	59-30	59-25	59-00	58-80	58-85
19	59-19	59-17	59-18	59-57	59-39	59-42	59-22	59-14	59-31	58-80	58-70	58-85
20	59-22	59-16	59-18	59-55	59-56	59-48	59-34	59-18	59-34	59-04	58-96	58-85
21	59-22	59-17	59-21	59-53	59-39	59-62	59-44	59-35	59-15	59-02	58-86	58-85
22	59-22	59-18	59-18	59-56	59-33	59-30	59-30	59-38	59-18	58-88	58-74	58-85
23	59-22	59-13	59-18	59-60	59-40	59-30	59-40	59-20	59-22	59-07	58-71	58-85
24	59-20	59-15	59-20	59-58	59-36	59-26	59-22	59-17	59-13	58-98	58-80	58-88
25	59-18	59-18	59-21	59-61	59-36	59-45	59-22	59-23	59-22	59-07	58-74	58-90
26	59-20	59-19	59-17	59-60	59-33	59-40	59-30	59-12	59-37	58-96	58-77	58-91
27	59-15	59-22	59-25	59-47	59-36	59-37	59-16	59-22	59-25	58-97	58-80	58-89
28	59-17	59-18	59-25	59-52	59-23	59-37	59-35	59-20	59-25	59-00	58-79	58-86
29	59-14	59-22	59-63	59-20	59-20	59-38	59-41	59-15	59-07	58-98	58-82	58-89
30	59-18	59-20	59-52	59-29	59-29	59-43	59-11	59-12	59-11	59-03	58-84	58-86
31	59-20	59-19	59-26	59-33	59-37	59-33	59-37	58-80	58-80	58-80	58-80	58-88
1922												
1	1058-90	1058-85	1059-00	1059-20	1059-74	1060-22	1059-68	1059-62	1059-37	1059-28	1059-01	1059-20
2	58-88	58-93	59-01	59-18	59-78	60-23	59-47	59-68	59-38	59-01	58-99	59-28
3	58-90	58-95	59-00	59-19	59-76	60-15	59-59	59-61	59-45	59-20	59-04	59-32
4	58-88	58-95	58-98	59-20	59-78	60-28	59-65	59-68	59-50	58-98	59-03	59-18
5	58-85	58-95	59-00	59-17	59-75	60-28	59-54	59-58	59-20	58-98	59-08	59-35
6	58-90	58-96	58-96	59-15	59-69	60-09	59-48	59-66	59-41	59-07	59-08	59-33
7	58-93	58-95	58-99	59-17	59-80	59-95	59-33	59-50	59-47	58-95	58-91	59-31
8	58-95	58-94	59-00	59-16	59-78	59-93	59-63	59-61	59-46	59-18	59-10	59-37
9	58-91	58-93	59-00	59-18	59-80	59-93	59-76	59-59	59-51	59-10	59-22	59-33
10	58-91	58-93	59-00	59-20	59-86	60-02	59-60	59-61	59-38	59-16	59-21	59-36
11	58-91	58-93	59-00	59-19	59-96	59-82	59-61	59-77	59-45	58-69	59-11	59-31
12	58-88	58-98	59-02	59-22	60-17	59-97	59-65	59-58	59-31	59-08	59-15	59-40
13	58-91	58-97	59-07	59-25	60-11	60-01	59-74	59-68	59-28	59-23	59-20	59-40
14	58-86	59-01	59-02	59-32	60-12	59-95	59-68	59-82	59-35	58-95	59-25	59-40
15	58-95	59-00	59-00	59-39	60-13	59-96	59-64	59-54	59-19	59-05	59-20	59-40
16	58-90	58-96	59-00	59-38	60-15	59-76	59-75	59-61	59-37	58-79	59-26	59-41
17	58-88	58-97	58-95	59-45	60-27	59-93	59-56	59-51	59-50	58-91	59-21	59-42
18	58-88	58-96	59-00	59-52	60-05	60-10	59-52	59-47	59-30	59-03	59-12	59-40
19	58-91	58-97	59-05	59-54	60-14	59-79	59-61	59-47	59-47	58-76	59-15	59-39
20	58-90	59-02	59-01	59-56	60-21	59-89	59-60	59-65	59-45	59-07	59-26	59-42
21	58-85	58-95	59-02	59-60	60-30	59-91	59-59	59-53	59-44	58-83	59-27	59-42
22	58-95	58-89	59-03	59-60	60-36	59-98	59-61	59-52	59-28	58-93	59-34	59-41
23	58-90	58-96	59-05	59-64	60-26	59-77	59-65	59-61	59-11	58-92	58-95	59-44
24	58-90	59-00	59-02	59-67	60-28	59-52	59-73	59-49	59-23	58-99	59-03	59-42
25	58-91	58-99	59-07	59-65	60-24	59-85	59-65	59-31	59-19	58-87	59-32	59-48
26	58-92	59-00	59-15	59-70	60-25	59-80	59-68	59-38	59-23	59-09	59-20	59-45
27	58-90	58-98	59-15	59-70	60-27	59-71	59-58	59-62	59-29	58-87	59-09	59-44
28	58-87	59-00	59-15	59-73	60-30	59-77	59-68	59-22	59-38	58-79	59-48	59-46
29	58-93	59-05	59-15	59-72	60-10	59-61	59-69	59-40	59-16	58-85	59-03	59-45
30	58-90	59-15	59-15	59-77	60-11	59-58	59-60	59-42	59-30	58-90	59-06	59-42
31	58-91	59-18	59-18	59-18	60-18	59-63	59-63	59-42	58-99	58-99	58-99	59-52

RAINY LAKE INVESTIGATION

WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued

RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1.....	1059-50	1059-70	1059-88	1059-50	1059-86	1060-19	1060-17	1060-12	1059-78	1059-33	1050-26	1058-54
2.....	59-49	59-67	59-82	59-43	59-94	60-18	60-13	60-19	59-85	59-32	59-02	58-84
3.....	59-52	59-72	59-84	59-37	59-95	60-18	60-18	60-19	59-70	59-27	58-85	58-60
4.....	59-52	59-70	59-90	59-32	59-97	60-14	60-14	60-05	59-75	59-25	58-96	58-63
5.....	59-52	59-70	59-87	59-30	60-03	60-00	60-15	60-07	59-67	59-33	59-03	58-68
6.....	59-52	59-72	59-85	59-22	60-02	60-14	60-34	60-11	59-72	59-32	58-75	58-58
7.....	59-58	59-72	59-88	59-18	60-10	60-16	60-20	59-93	59-62	59-39	58-77	58-59
8.....	59-53	59-74	59-85	59-25	59-75	60-18	60-30	60-02	59-51	59-40	58-96	58-55
9.....	59-55	59-74	59-87	59-16	60-15	60-17	60-20	60-03	59-72	59-30	58-91	58-60
10.....	59-55	59-76	59-89	59-10	60-12	60-20	60-26	59-94	59-56	59-24	58-82	58-57
11.....	59-54	59-80	59-90	59-07	59-99	60-10	60-14	60-08	59-57	59-48	58-92	58-55
12.....	59-63	59-75	59-92	58-99	60-14	60-14	60-21	59-82	59-35	59-16	58-83	58-59
13.....	59-61	59-72	59-88	58-95	60-18	60-10	60-30	60-17	59-45	59-36	58-78	58-54
14.....	59-60	59-80	59-91	58-95	60-30	60-10	60-23	59-79	59-64	59-30	58-81	58-48
15.....	59-64	59-80	59-92	59-00	60-12	60-06	60-23	59-88	59-63	59-48	58-73	58-50
16.....	59-60	59-83	59-88	58-94	60-17	60-09	60-29	59-89	59-66	59-39	58-74	58-55
17.....	59-64	59-80	59-78	58-90	60-22	60-30	60-32	59-92	59-55	59-25	58-78	58-46
18.....	59-66	59-83	59-88	58-89	60-20	60-46	60-42	59-88	59-47	59-17	58-77	58-48
19.....	59-63	59-81	59-81	58-91	60-15	60-10	60-21	59-94	59-63	58-86	58-82	58-49
20.....	59-65	59-84	59-73	59-01	60-20	60-01	61-19	59-95	59-40	58-97	58-71	58-45
21.....	59-65	59-80	59-79	59-05	60-16	60-11	60-20	59-63	59-66	59-35	58-64	58-40
22.....	59-67	59-81	59-75	59-25	60-24	60-21	60-28	59-95	59-52	59-27	58-86	58-43
23.....	59-66	59-83	59-70	59-22	60-25	60-31	60-13	59-63	59-36	59-30	58-63	58-45
24.....	59-65	59-86	59-66	59-32	60-23	60-32	60-13	59-74	59-48	58-73	58-88	58-49
25.....	59-65	59-82	59-68	59-45	60-19	60-02	60-19	59-85	59-52	58-92	58-68	58-50
26.....	59-63	59-82	59-67	59-48	60-22	60-08	60-22	59-80	59-71	59-02	58-36	58-35
27.....	59-63	59-84	59-82	59-65	60-25	59-97	60-13	59-83	59-48	59-06	58-70	58-35
28.....	59-67	59-85	59-64	59-72	60-19	60-04	60-25	59-61	59-32	59-11	59-03	58-41
29.....	59-66	59-85	59-55	59-82	60-21	60-13	60-07	59-78	59-35	58-93	58-68	58-38
30.....	59-70	59-85	59-51	59-84	60-22	60-24	60-10	59-87	59-43	58-99	58-56	58-43
31.....	59-68	59-86	59-46	59-46	60-26	60-02	60-50	59-62	59-43	58-92	58-68	58-38
1924												
1.....	1058-40	1058-12	1057-78	1057-50	1057-38	1057-75	1057-45	1057-19	1056-70	1056-32	1056-02	1055-57
2.....	58-36	58-12	57-80	57-44	57-60	57-62	57-42	57-32	56-86	56-20	55-90	55-55
3.....	58-34	58-14	57-75	57-41	57-55	57-67	57-45	57-22	56-87	56-23	56-00	55-56
4.....	58-31	57-96	57-70	57-39	57-68	57-68	57-46	57-24	56-57	56-18	55-94	55-55
5.....	58-33	58-01	57-70	57-46	57-54	57-62	57-47	57-14	56-64	56-00	55-82	55-52
6.....	58-43	58-02	57-61	57-50	57-53	57-41	57-55	57-10	56-70	56-23	55-85	55-51
7.....	58-36	58-01	57-69	57-46	57-53	57-59	57-55	57-21	56-72	56-25	55-80	55-56
8.....	58-31	57-99	57-65	57-50	57-49	57-65	57-48	56-93	56-27	56-39	56-19	55-45
9.....	58-28	58-01	57-74	57-48	57-46	57-62	57-19	57-00	56-57	56-50	56-15	55-45
10.....	58-34	58-05	57-69	57-49	57-55	57-67	57-35	57-07	56-67	56-15	55-65	55-48
11.....	58-28	57-95	57-64	57-45	57-65	57-57	57-36	56-99	56-52	56-07	55-73	55-49
12.....	58-30	57-96	57-62	57-46	57-46	57-57	57-22	56-87	56-37	56-34	55-85	55-50
13.....	58-30	57-96	57-63	57-46	57-30	57-59	57-30	56-99	56-34	56-62	55-75	55-50
14.....	58-30	57-93	57-60	57-45	57-62	57-50	57-34	57-22	56-55	56-20	55-96	55-44
15.....	58-25	57-90	57-59	57-42	57-77	57-59	57-20	56-78	56-47	56-18	55-75	55-42
16.....	58-24	57-90	57-65	57-44	57-75	57-67	57-03	56-71	56-44	56-14	55-73	55-42
17.....	58-25	57-95	57-59	57-53	57-70	57-52	57-06	57-00	56-43	56-28	55-70	55-43
18.....	58-21	57-88	57-57	57-55	57-53	57-73	57-21	57-00	56-51	56-17	55-75	55-43
19.....	58-21	57-86	57-55	57-58	57-78	57-76	57-35	56-87	56-70	56-20	55-76	55-41
20.....	58-25	57-86	57-50	57-65	57-63	57-80	57-30	56-92	56-49	56-12	55-76	55-41
21.....	58-18	57-85	57-49	57-57	57-72	57-65	57-31	56-94	56-30	56-24	55-66	55-40
22.....	58-16	57-85	57-49	57-57	57-75	57-58	57-19	56-93	56-26	56-29	55-65	55-40
23.....	58-16	57-87	57-55	57-56	57-55	57-58	57-12	56-91	56-48	56-30	55-65	55-37
24.....	58-06	57-90	57-49	57-53	57-61	57-47	57-06	56-90	56-61	56-31	55-63	55-36
25.....	58-12	57-88	57-45	57-55	57-55	57-59	57-04	56-92	56-27	56-20	55-70	55-50
26.....	58-14	57-84	57-45	57-54	57-69	57-56	57-15	56-82	56-40	56-19	55-62	55-35
27.....	58-22	57-78	57-45	57-67	57-52	57-45	57-18	56-77	56-11	56-12	55-61	55-36
28.....	58-16	57-78	57-46	57-59	57-56	57-43	57-15	56-84	56-10	56-15	55-58	55-35
29.....	58-20	57-79	57-40	57-54	57-59	57-34	57-14	56-76	56-29	56-17	55-59	55-31
30.....	58-10	57-70	57-50	57-60	57-58	57-40	57-00	56-90	56-40	56-10	55-58	55-32
31.....	58-10	57-70	57-50	57-60	57-69	57-40	57-20	56-97	56-40	56-05	55-58	55-25

## WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Continued

## RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE

[Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1	1055-27	1055-12	1055-10	1055-22	1056-05	1056-66	1058-47	1058-59	1058-48	1058-77	1058-95	1059-10
2	55-27	55-13	55-07	55-23	56-17	57-03	58-45	58-60	58-52	58-68	58-94	59-08
3	55-25	55-13	55-05	55-26	56-15	56-98	58-45	58-62	58-47	58-72	59-16	59-08
4	55-24	55-15	55-05	55-30	56-08	56-98	58-47	58-62	58-46	58-78	58-88	59-17
5	55-23	55-13	55-05	55-40	56-10	57-07	58-87	58-67	58-37	58-61	58-85	59-12
6	55-22	55-14	54-97	55-36	56-21	57-20	58-49	58-62	58-60	58-54	58-98	59-17
7	55-20	55-04	55-00	55-37	56-25	57-23	58-47	58-58	58-40	58-72	59-00	59-15
8	55-21	55-06	55-10	55-39	56-35	57-35	58-72	58-65	58-54	58-64	59-05	59-14
9	55-20	55-10	55-01	55-41	56-50	56-88	58-57	58-58	58-61	58-77	58-98	59-17
10	55-19	55-11	55-02	55-40	56-30	57-43	58-59	58-52	58-74	59-14	59-02	59-16
11	55-18	55-12	55-00	55-43	56-53	57-56	58-54	58-64	58-51	58-70	59-01	59-17
12	55-18	55-13	55-00	55-52	56-33	57-62	58-60	58-70	58-65	58-81	59-02	59-17
13	55-15	55-13	55-01	55-48	56-35	57-70	58-65	58-35	58-60	58-83	59-01	59-25
14	55-15	55-13	55-07	55-50	56-52	57-70	58-67	58-66	58-70	58-81	59-03	59-19
15	55-15	55-13	55-10	55-51	56-50	57-65	58-60	58-63	58-74	58-72	59-05	59-20
16	55-13	55-10	55-13	55-57	56-14	57-84	58-55	58-65	58-75	58-77	59-06	59-19
17	55-11	55-09	55-10	55-52	56-62	57-64	58-65	58-67	58-65	58-95	59-04	59-21
18	55-12	55-07	55-08	55-50	56-48	57-95	58-76	58-68	58-67	58-75	59-06	59-20
19	55-13	55-07	55-07	55-70	56-64	57-85	58-72	58-56	58-62	58-69	59-10	59-18
20	55-15	55-05	55-04	55-67	56-64	57-95	58-45	58-45	58-30	58-76	59-10	59-26
21	55-13	55-08	55-20	55-66	56-55	58-10	58-42	58-78	58-63	58-85	59-00	59-19
22	55-10	55-08	55-22	55-65	56-53	57-97	58-59	58-75	58-79	58-98	59-10	59-21
23	55-10	55-06	55-23	55-67	56-21	58-12	58-62	58-74	58-65	58-99	59-07	59-20
24	55-10	55-04	55-20	55-88	56-50	58-15	58-64	58-73	58-49	58-91	59-04	59-20
25	55-10	55-05	55-14	55-90	56-45	58-28	58-57	58-53	58-95	59-00	59-05	59-25
26	55-05	55-07	55-14	55-85	56-64	58-15	58-68	58-58	58-61	58-86	59-05	59-24
27	55-07	55-11	55-13	55-89	56-60	58-22	58-50	58-81	57-60	58-75	59-06	59-24
28	55-10	55-11	55-16	55-93	56-67	58-22	58-46	58-85	58-57	58-69	59-05	59-23
29	55-07	.....	55-14	55-73	56-69	58-33	58-60	58-60	58-44	58-98	59-15	59-25
30	55-09	.....	55-17	55-92	56-67	58-53	58-40	58-57	58-53	59-40	59-09	59-22
31	55-10	.....	55-20	.....	56-63	.....	58-47	58-57	.....	58-93	.....	59-24
1926												
1	1059-28	1059-33	1059-40	1059-60	1059-72	1059-80	1060-50	1060-58	1060-36	1060-74	1060-57	1060-70
2	59-27	59-30	59-41	59-62	59-65	59-69	60-56	60-43	60-42	60-50	60-78	60-70
3	59-30	59-35	59-40	59-62	59-71	59-89	60-61	60-34	60-35	60-59	60-59	60-69
4	59-24	59-36	59-40	59-65	59-71	59-92	60-77	60-32	60-28	60-33	60-67	60-70
5	59-28	59-35	59-39	59-65	59-65	60-10	60-56	60-41	60-32	60-51	60-68	60-75
6	59-25	59-37	59-35	59-63	59-77	59-83	60-61	59-03	60-38	60-70	60-52	60-75
7	59-30	59-36	59-45	59-60	59-67	59-72	60-68	60-37	60-49	60-83	60-56	60-72
8	59-27	59-40	59-45	59-59	59-67	59-85	60-65	60-35	60-18	60-98	60-42	60-75
9	59-28	59-38	59-45	59-63	59-67	59-91	60-57	60-26	60-39	60-39	60-46	60-76
10	59-26	59-37	59-42	59-57	59-58	59-96	60-58	60-24	60-40	60-96	60-55	60-75
11	59-27	59-37	59-43	59-62	59-64	59-95	60-67	60-43	60-27	60-99	60-61	60-73
12	59-26	59-35	59-43	59-59	59-55	59-92	60-53	60-25	60-41	60-98	60-47	60-81
13	59-29	59-36	59-46	59-47	59-58	59-92	60-55	60-23	60-52	60-99	60-41	60-76
14	59-29	59-50	59-47	59-58	59-68	59-93	60-62	60-27	60-53	60-84	60-59	60-78
15	59-29	59-41	59-43	59-59	59-69	60-01	60-67	60-33	60-42	60-87	60-41	60-78
16	59-29	59-38	59-40	59-57	59-71	60-10	60-60	60-25	60-58	60-68	60-40	60-79
17	59-35	59-40	59-42	59-58	59-52	59-85	60-53	60-43	60-27	60-95	60-36	60-74
18	59-27	59-42	59-45	59-65	59-78	59-92	60-60	60-33	60-29	60-70	60-47	60-76
19	59-30	59-38	59-42	59-62	59-58	60-08	60-49	60-28	60-48	60-76	60-54	60-75
20	59-30	59-37	59-48	59-62	59-52	60-08	60-52	60-51	60-42	60-72	60-67	60-76
21	59-31	59-42	59-50	59-62	59-43	59-86	60-58	60-40	60-32	60-70	60-70	60-73
22	59-32	59-40	59-48	59-66	59-68	60-19	60-54	60-50	60-37	60-62	60-65	60-76
23	59-32	59-42	59-48	59-61	59-73	60-39	60-52	60-28	60-60	60-63	60-63	60-75
24	59-36	59-40	59-45	59-58	59-65	60-45	60-50	60-38	60-38	60-72	60-65	60-75
25	59-32	59-34	59-48	59-68	59-87	60-30	60-56	60-42	60-47	60-70	60-63	60-84
26	59-31	59-38	59-50	59-71	59-75	60-60	60-52	60-37	60-51	60-75	60-64	60-87
27	59-30	59-39	59-54	59-57	59-78	60-52	60-50	60-48	60-48	60-71	60-63	60-74
28	59-32	59-37	59-59	59-72	59-88	60-48	60-52	60-25	60-65	60-66	60-70	60-75
29	59-29	.....	59-60	59-69	59-90	60-45	60-40	60-30	60-46	60-58	60-73	60-76
30	59-30	.....	59-61	59-66	59-95	60-64	60-38	60-32	60-59	60-61	60-65	60-72
31	59-30	.....	59-60	.....	59-86	.....	60-46	60-37	.....	60-75	.....	60-74

WATER LEVELS—LAKE OF THE WOODS—KEEWATIN, ONTARIO—Concluded  
 RECORDS OF DOMINION WATER POWER AND RECLAMATION SERVICE  
 [Elevations refer to U. S. C. and G. S. Datum]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1.....	1060-80	1060-51	1060-10	1059-75	1060-95	1062-32	1062-35	1061-65	1060-74	1060-32	1060-43	1060-28
2.....	60-80	60-50	60-07	59-74	60-93	62-36	62-14	61-61	60-71	60-33	60-49	60-28
3.....	60-76	60-52	60-08	59-84	60-90	62-40	62-45	61-58	60-62	60-27	60-44	60-27
4.....	60-73	60-50	60-04	59-76	61-02	62-15	62-38	61-51	60-82	60-37	60-09	60-34
5.....	60-72	60-51	60-03	59-83	61-11	62-44	62-38	61-67	60-84	60-29	60-13	60-27
6.....	60-74	60-58	60-08	59-84	61-17	62-48	62-29	61-42	60-66	60-43	60-30	60-29
7.....	60-73	60-56	60-04	59-83	61-20	62-37	62-32	61-67	60-63	60-56	60-30	60-26
8.....	60-70	60-49	60-00	59-82	61-18	62-31	62-40	61-33	60-63	60-31	60-32	60-28
9.....	60-78	60-51	59-98	59-88	60-92	62-30	62-30	61-39	60-59	60-44	60-31	60-28
10.....	60-76	60-50	60-04	59-96	61-11	62-23	62-40	61-22	60-54	60-50	60-33	60-30
11.....	60-75	60-46	59-98	59-95	61-59	62-20	62-38	61-22	60-60	60-34	60-04	60-32
12.....	60-75	60-42	59-94	59-96	61-68	62-30	62-29	61-20	60-62	60-14	60-18	60-25
13.....	60-74	60-45	60-00	60-00	61-67	62-20	62-25	61-20	60-60	60-17	60-37	60-28
14.....	60-75	60-41	60-44	60-04	61-50	62-28	62-31	61-14	60-72	60-44	60-09	60-25
15.....	60-74	60-35	59-97	60-10	61-91	62-29	62-28	61-16	60-77	60-30	59-97	60-19
16.....	60-73	60-33	59-98	60-18	62-00	62-30	62-07	61-09	60-62	60-43	60-19	60-25
17.....	60-73	60-31	60-00	60-38	61-74	62-31	62-28	60-90	60-58	60-51	60-20	60-25
18.....	60-72	60-28	59-96	60-43	61-87	62-28	62-06	60-88	60-30	60-49	60-24	60-31
19.....	60-70	60-24	59-96	60-48	61-99	62-27	62-18	60-88	60-38	60-40	60-28	60-30
20.....	60-66	60-34	60-02	60-65	62-03	62-23	62-24	60-98	60-34	60-23	60-30	60-28
21.....	60-66	60-26	59-92	60-68	61-95	62-05	62-05	60-88	60-34	60-38	60-30	60-28
22.....	60-65	60-24	59-87	60-75	62-02	61-86	62-04	60-72	60-34	60-29	60-28	60-28
23.....	60-68	60-23	59-85	60-76	62-14	62-24	62-07	60-75	60-36	60-48	60-28	60-29
24.....	60-65	60-20	59-82	60-90	62-18	62-38	62-05	60-75	60-18	60-41	60-30	60-30
25.....	60-64	60-18	59-79	60-91	62-15	62-16	62-01	60-70	60-30	60-32	60-27	60-34
26.....	60-65	60-14	59-81	60-88	62-21	62-37	61-88	60-78	60-31	60-25	60-30	60-35
27.....	60-65	60-20	59-88	60-92	62-37	62-51	61-93	60-84	60-40	60-24	60-32	60-28
28.....	60-60	60-11	59-81	60-88	62-33	62-30	61-69	60-72	60-31	60-27	60-27	60-25
29.....	60-60	.....	59-79	60-90	62-35	62-31	61-80	60-63	60-27	60-36	60-28	60-35
30.....	60-62	.....	59-78	60-97	62-31	62-34	61-80	60-58	60-20	60-55	60-28	60-33
31.....	60-58	.....	59-77	.....	62-32	.....	61-90	60-74	.....	60-40	.....	60-30



DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
—ALL OUTLETS  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	10430	10345	10175	10090	10090	10880	10970	9330	11150	10970	10880	10880
2	10430	10345	10175	10090	8090	10880	10970	10970	11150	10970	10880	10880
3	8860	10345	10175	10090	10090	10880	10970	10970	11150	8740	10880	10880
4	10430	10345	10175	7990	10090	10970	9240	10970	11150	10970	10880	10880
5	10430	10345	10175	10090	10090	10970	10970	10970	9330	10970	10880	8860
6	10430	10345	10175	10090	10090	9220	10970	10970	11150	10970	10880	10880
7	10430	8705	8485	10090	10090	10970	10970	10970	11150	10970	8860	10880
8	10430	10245	10175	10090	10090	10970	10970	9330	11150	10970	10880	10880
9	10430	10345	10175	10090	8090	10970	10970	10970	11150	10970	10880	10880
10	8860	10260	10175	10090	10090	10970	10970	10970	11150	8740	10880	10880
Average	10116	10173	10006	9880	9690	10768	10797	10642	10988	10524	10678	10678
11	10430	10260	10175	7990	10090	10970	9240	10970	11150	10970	10880	10880
12	10430	10260	10175	10090	10175	10970	10970	10970	9240	10970	10880	8860
13	10430	10260	10175	10090	10175	9220	10970	10970	11060	10970	10880	10880
14	10430	8620	8485	10090	10175	10970	10970	10970	11060	10970	8860	10880
15	10430	10260	10175	10090	10175	10970	10970	9330	11060	10880	10880	10880
16	10430	10260	10090	10090	8260	10970	10970	10970	11060	10880	10880	10880
17	8860	10260	10090	10090	10260	10970	10970	10970	11060	8650	10880	10880
18	10430	10260	10090	7990	10260	10970	9240	10970	11060	10880	10880	10880
19	10430	10260	10090	10090	10345	10970	10970	10970	9240	10880	10880	8860
20	10430	10260	10090	10090	10345	9220	10970	10970	11060	10880	10880	10880
Average	10273	10096	9964	9670	10026	10620	10624	10806	10705	10693	10678	10476
21	10345	8620	8400	10090	10430	10970	10970	10970	11060	10880	8860	10880
22	10345	10260	10090	10090	10430	10970	10970	9330	11060	10880	10880	10880
23	10345	10260	10090	10090	8520	10970	10970	11060	11060	10880	10880	10880
24	8775	10260	10090	10090	10610	10970	10970	11060	11060	8650	10880	10880
25	10345	10260	10090	7990	10610	10970	9240	11060	11060	10880	10880	10880
26	10345	10260	10090	10090	10700	10970	10970	11060	9240	10880	10880	8860
27	10345	10260	10090	10090	10700	9220	10970	11060	10970	10880	10880	10880
28	10345	8620	8400	10090	10790	10970	10970	11060	10970	10880	8860	10880
29	10345	10090	10090	10090	10790	10970	10970	9510	10970	10880	10880	10880
30	10345	10090	10090	10090	8790	10970	10970	11150	10970	10880	10880	10880
31	8775	10090	10090	10090	10880	10970	10970	11150	8650	10880	10880	10880
Average	10060	9850	9783	9880	10295	10795	10813	10770	10842	10475	10476	10696
Monthly mean	10147	10053	9913	9810	10013	10728	10747	10740	10838	10561	10611	10619
1910												
1	10880	11060	11060	22450	25250	25570	19875	11150	10345	10260	8940	8700
2	9100	11060	11060	22450	27020	25570	19875	11150	10345	8080	8860	8700
3	10970	11060	11060	20650	27020	25410	17900	11060	10345	10260	8860	8700
4	10970	11060	11150	22750	27020	25250	19720	11060	8320	10260	8860	6580
5	10970	11060	11150	22900	27020	23650	19570	10970	10260	10260	8730	8700
6	10970	9180	9310	22900	27020	25090	19570	10970	10260	10260	6740	8700
7	10970	11060	11150	23050	27020	24930	19420	9120	10260	10260	8780	8700
8	10970	11060	11150	23200	25250	24930	19270	10880	10260	10260	8780	8700
9	9100	11060	11150	23350	26850	24770	17705	10790	10260	8080	8780	8700
10	10970	11060	11150	21550	26850	24450	14420	10790	10260	10175	8780	8700
Average	10587	10872	10939	22525	26632	24962	18733	10794	10092	9816	8616	8488
11	10970	11060	12315	23500	26850	23350	14740	10790	8235	10175	8780	6580
12	10970	11060	12520	23650	26850	20210	13590	10790	10175	10175	8780	8700
13	10970	9180	10175	23810	26850	21305	13480	10700	10175	10090	6740	8700
14	10970	11060	11530	23810	26690	21140	13480	8940	10175	10090	8780	8620
15	10970	11060	11530	23970	24930	20980	13480	10700	10175	10090	8780	8620
16	9100	11060	11530	24130	26600	20980	13370	10610	10175	7825	8700	8620
17	10970	11060	11530	22450	26530	20980	11550	10610	10175	10005	8700	8620
18	10970	11060	11530	24450	26530	20820	13280	10610	8235	9920	8700	6500
19	10970	11060	11530	24450	26530	18890	13280	10520	10175	9835	8700	8620
20	10970	9180	9690	24610	26370	20660	13150	10520	10175	9835	6660	8620
Average	10783	10694	11388	23883	26482	20932	13336	10479	9787	9804	8332	8220
21	10970	11060	11530	24770	26370	20660	13045	8760	10175	9750	8700	8620
22	10970	11060	11530	24770	24450	20500	12835	10520	10175	9665	8700	8620
23	9100	11060	11530	24930	26210	20500	12015	10520	10175	7400	8700	8620
24	10970	11060	11530	23200	26210	20340	9995	10430	10175	9500	8700	8620
25	10970	11060	11530	25410	26210	20340	11625	10430	8235	9420	8700	6500
26	10970	11060	11530	25730	26050	18255	11530	10430	10260	9340	8700	8620
27	9180	9690	9690	26530	26050	20185	11435	10430	10260	9260	6660	8620
28	10970	11060	11530	27020	25890	20030	11435	8670	10260	9180	8700	8620
29	10970	11060	11915	27020	24130	20030	11340	10430	10260	9100	8700	8620
30	9100	14740	14740	27020	25730	20030	11245	10345	10260	6840	8700	8620
31	10970	17570	17570	25730	25730	20030	9425	10345	10260	9020	8700	8620
Average	10630	10825	12239	25640	25730	20087	11448	10119	10024	8952	8496	8427
Monthly mean	10665	10791	11545	24016	26264	21994	14407	10453	9967	9505	8481	8380

DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
 —ALL OUTLETS—Continued  
 RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	6550	8540	8460	8300	8540	8540	8620	8620	7905	4310	5720	5520
2	8620	8540	8460	5980	8540	8540	6940	8620	7830	6705	5720	5520
3	8620	8540	8380	8300	8540	8540	8620	8620	5515	6630	5720	3170
4	8620	8460	8380	8300	8540	6370	8620	8620	7680	6630	5650	5520
5	8620	6440	6170	8300	8540	8540	8620	8620	7680	6560	3390	5520
6	8620	8460	8380	8300	8540	8540	8620	6910	7605	6490	5650	5520
7	8620	8460	8380	8300	6310	8540	8620	8620	7605	6420	5650	5520
8	6550	8460	8380	8380	8540	8540	8620	8620	7530	3880	5650	5520
9	8620	8460	8380	6060	8540	8540	6640	8620	7530	6350	5650	5520
10	8620	8460	8380	8380	8540	8540	8620	8620	5290	6350	5585	3170
Average	8206	8282	8175	7860	8317	8323	8224	8449	7217	6033	5438	5050
11	8540	8460	8380	8380	8540	6450	8620	8620	7455	6280	5585	5520
12	8540	6440	6170	8380	8540	8620	8620	8620	7455	6280	3325	5520
13	8540	8460	8380	8380	8540	8620	8620	6910	7455	6210	5585	5520
14	8540	8460	8380	8460	6310	8620	8620	8620	7455	6210	5585	5520
15	6470	8460	8380	8460	8540	8620	8620	8540	7455	3740	5585	5520
16	8540	8460	8380	6140	8540	8620	6640	8540	7455	6140	5585	5520
17	8540	8460	8380	8460	8540	8620	8620	8540	5215	6070	5520	3170
18	8540	8460	8380	8460	8540	6450	8620	8460	7455	6070	5520	5520
19	8540	6440	6170	8460	8540	8620	8620	8460	7380	6070	3260	5520
20	8540	8460	8380	8460	8540	8620	8620	6750	7330	6000	5520	5520
Average	8333	8056	7938	8204	8317	8186	8422	8206	7216	5907	5107	5285
21	8540	8460	8380	8540	6310	8620	8620	8380	7305	5930	5520	5520
22	6470	8460	8380	8540	8540	8620	8620	8380	7305	3460	5520	5520
23	8540	8460	8380	6220	8540	8620	6640	8300	7230	5860	5520	5520
24	8540	8460	8380	8540	8540	8620	8620	8300	4990	5860	5520	3170
25	8540	8460	8380	8540	8540	6450	8620	8220	7155	5860	5520	5520
26	8540	6440	6170	8540	8540	8620	8620	8220	7080	5790	3260	5520
27	8540	8460	8300	8540	8540	8620	8620	6430	7080	5790	5520	5520
28	8540	8460	8300	8540	6310	8620	8620	8140	7005	5790	5520	5520
29	6470	8300	8540	8540	8620	8620	8620	8060	6930	3320	5520	5520
30	8540	8300	6220	8540	8620	6640	7980	6855	5790	5520	5520	5520
31	8540	8300	8540	8540	8540	8620	7980	5720	5720	5720	3170	5520
Average	8164	8208	8143	8076	8135	8403	8260	8035	6894	5379	5294	5093
Monthly mean	8232	8180	8087	8047	8252	8304	8301	8224	7109	5760	5280	5141
1912												
1	5520	5455	5790	5930	6350	6140	5195	5455	5070	6420	10430	8320
2	5520	5455	5790	5930	6420	3940	5130	5455	5930	6420	10430	10430
3	5520	5455	3620	5930	4420	6140	5130	5455	5930	6490	8805	10430
4	5520	3290	5790	5930	6490	6140	5130	4250	6000	6930	10345	10430
5	5520	5520	5790	5930	4270	6070	5130	5520	6000	8460	10345	10430
6	5520	5520	5790	5930	6490	6000	5130	5520	6000	7470	10345	10430
7	3320	5520	5790	3740	6560	5860	3670	5520	6000	9020	10090	10430
8	5520	5520	5860	6000	6560	5720	5130	5585	5140	9180	9580	8320
9	5520	5520	5860	6000	6630	3450	5130	5585	6000	9340	9020	10430
10	5520	5520	3690	6000	6630	5520	5195	5585	6000	9420	6760	10430
Average	5300	5278	5377	5732	6282	5498	4997	5393	5807	7915	9615	10008
11	5520	3355	5860	6000	6705	5520	5195	4380	6070	9580	8300	10430
12	5520	5585	5860	6000	4485	5520	5195	5650	6070	9665	8940	10430
13	5520	5585	5860	6070	6780	5520	5195	5650	6070	8440	9580	10430
14	3320	5585	5860	3810	6780	5520	3735	5720	6070	9920	9920	10430
15	5520	5650	5860	6070	6780	5520	5195	5720	5210	10005	10005	8320
16	5520	5650	5860	6070	5720	3385	5260	5720	6070	10005	10090	10430
17	5520	5650	3690	6070	6705	5650	5260	5790	6070	10090	8465	10430
18	5455	3420	5860	6140	6630	5720	5260	4520	6070	10175	9920	10430
19	5455	5650	5860	6140	4340	5790	5260	5790	6070	10175	10005	10480
20	5455	5720	5860	6140	6490	5790	5260	5790	6140	8950	10005	10430
Average	5281	5185	5643	5851	6248	5394	5082	5473	5991	9700	9523	10219
21	3255	5720	5860	3880	6420	5720	3865	5860	6140	10260	10090	10430
22	5455	5720	5860	6210	6420	5720	5325	5860	5280	10345	10260	8320
23	5455	5720	5860	6210	6350	4280	5325	5860	6210	10345	10345	10430
24	5455	5720	3690	6210	6350	5585	5325	5860	6210	10345	8060	10430
25	5455	3490	5860	6280	6280	5520	5325	4590	6280	10345	10430	10430
26	5455	5790	5860	6280	4060	5455	5390	5860	6280	10345	10430	10345
27	5455	5790	5860	6280	6210	5390	5390	5860	6350	9035	10430	10345
28	3255	5790	5860	4020	6210	5325	3930	5930	6350	10345	10430	10345
29	5455	5790	5930	6350	6210	5260	5390	5930	5560	10430	10430	8235
30	5455	5790	5930	6350	6210	3825	5390	5930	6420	10430	10430	10345
31	5455	3760	5930	6140	6140	5455	5930	5930	5930	10430	10430	10345
Average	5055	5503	5484	5807	6078	5208	5101	5770	6108	10241	10134	10000
Monthly mean	5207	5316	5501	5797	6199	5367	5061	5553	5969	9316	9757	10073

DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
—ALL OUTLETS—Continued  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1.....	10345	10345	7230	6705	15475	17495	17385	15600	14385	8460	8300	7980
2.....	10345	8415	5070	6705	15475	19875	19420	15600	14270	8460	6510	8220
3.....	10345	10345	7230	6630	15475	20030	19420	14010	14270	8460	6890	8220
4.....	10345	10345	7230	6630	13125	20030	19420	15600	14270	8460	8220	8220
5.....	8195	10345	7230	6630	15600	20185	19270	15600	14270	6210	8220	8220
6.....	10345	10345	7230	4520	15600	20185	16790	15600	14270	7970	8220	8220
7.....	10345	10345	7230	6630	15600	20340	18545	15600	12530	8460	8220	6220
8.....	10345	10345	7230	6705	15725	17960	17985	15600	14270	8460	8220	7980
9.....	10345	8415	5070	6705	15725	20340	16475	15600	14270	8460	6430	8220
10.....	10345	10345	7230	6705	15725	20340	13370	14010	14270	8380	7890	8220
Average.....	10130	9959	6798	6457	15353	19678	17708	15282	14108	8178	7812	7972
11.....	10345	10260	7230	6780	13500	20340	13370	15600	14270	8380	8220	8220
12.....	8195	10175	7230	6780	15850	20340	13370	15475	14270	6130	8220	8220
13.....	10345	10090	7230	4745	16110	20340	11185	15475	14270	7600	8220	8220
14.....	10345	9180	7230	6855	18545	20340	13370	15475	12530	8380	8220	6220
15.....	10345	8220	7230	6930	18545	17805	13370	15475	14270	8380	8220	7980
16.....	10345	5300	5070	7005	18685	20185	13370	15475	14270	8380	6430	8140
17.....	10345	7230	7230	7080	18685	20030	13370	13760	14270	8380	7890	8140
18.....	10345	7230	7230	7155	16480	20030	13370	15550	14270	8380	8220	8140
19.....	8195	7230	7230	7230	18830	19875	13260	15225	14385	6130	8220	8140
20.....	10345	7230	7230	5270	18975	19875	10860	15100	14270	7600	8220	8140
Average.....	9915	8215	7014	6583	17421	19916	12889	15241	14108	7774	8008	7956
21.....	10345	7230	7230	7830	19120	19875	12730	14980	11410	8300	8220	6140
22.....	10345	7230	7230	9580	19120	17495	12730	14980	12215	8300	8220	7820
23.....	10345	5300	5070	11060	19120	19875	13045	14860	11530	8300	6430	8060
24.....	10345	7230	7155	12215	19270	19720	15600	13150	11060	8300	7890	8060
25.....	10345	7230	7080	13570	17070	19720	15600	14740	10790	8300	8220	6930
26.....	8195	7230	7005	14270	19420	19720	15600	14620	10430	6050	8220	8060
27.....	10345	7230	6930	13240	19570	19720	13415	14620	9750	7520	8220	8060
28.....	10345	7230	6930	15350	19570	19720	15600	14500	6720	8300	8220	6060
29.....	10345	.....	6855	15350	19720	17190	15600	14500	7865	8300	8220	7820
30.....	10345	.....	4620	15350	19720	19570	15600	14385	8460	8300	6430	8060
31.....	10345	.....	6780	.....	19720	.....	15600	12795	.....	8300	.....	8060
Average.....	10150	6989	6626	12762	19220	19261	14647	14376	10023	8025	7829	7557
Monthly mean..	10068	8487	6807	8600	17392	19618	15067	14947	12746	7993	7883	7820
1914												
1.....	8060	6670	8450	10175	10845	16435	18525	20185	13045	13150	8220	10005
2.....	8140	8060	10090	10175	10430	17165	19720	18300	13045	13150	9920	10005
3.....	8140	8060	10090	10175	8880	17165	19570	20030	13045	13150	9835	10005
4.....	6350	8060	10090	10090	10700	17300	19570	19875	13045	11115	9750	10005
5.....	8010	8060	10175	8790	10790	17435	19350	19720	13045	13045	9665	10005
6.....	8140	7460	10175	10090	10880	17570	19720	19720	12755	13045	9580	8505
7.....	8140	7460	10175	10090	10970	16165	19875	19570	13045	13045	9580	9920
8.....	8140	6670	8620	10090	11060	17085	20030	19570	13045	12940	7965	9835
9.....	8140	8060	10260	10090	11150	18125	20185	17680	13045	12940	9750	9835
10.....	8140	8060	10345	10005	9605	18265	20340	19270	13045	12940	9750	9835
Average.....	7940	7662	9847	9977	10481	17361	19689	19393	13016	12852	9402	9796
11.....	6350	8060	10345	10005	11340	18265	20340	19270	13045	11405	9835	9835
12.....	8010	8060	10430	8705	11340	18405	19150	19120	13045	12045	9920	9835
13.....	8140	8060	10430	9405	11340	18405	20500	18975	11430	12835	9920	8335
14.....	8140	8140	10430	10005	11340	16865	20660	18975	13150	12730	9920	9835
15.....	8140	6750	8790	10005	11435	17445	20660	18830	13150	11530	8220	9835
16.....	8140	8140	10430	10005	11435	18685	20660	17100	13260	11150	9920	9835
17.....	8140	8140	10430	10005	9795	18830	20660	18685	13260	10970	9920	9750
18.....	6270	8140	10430	10005	11435	18975	20660	18685	13260	9180	9920	9750
19.....	7930	8140	10345	8705	11435	18975	19900	18685	13260	9770	9920	9750
20.....	7980	8140	10345	10090	11530	19120	20660	18830	11540	10175	9920	8740
Average.....	7724	7977	10241	9694	11243	18397	20385	18716	12840	11179	9742	9550
21.....	7905	8220	10345	10090	12940	17590	20660	18830	13260	9920	9920	9750
22.....	7830	6910	8705	10090	13590	19420	20660	18830	13260	9920	9920	9750
23.....	7755	8860	10345	10090	14040	19570	20660	17100	13260	9920	9920	9750
24.....	7755	9500	10345	10090	12860	19720	20660	18545	13260	9920	9920	9750
25.....	5965	10005	10260	10175	14980	19875	20500	18265	13260	7990	9920	8740
26.....	7700	10090	10260	8875	15350	20185	10150	16760	13260	9920	9920	9750
27.....	7905	10090	10260	8575	15850	20340	20500	15475	11540	9920	10005	8740
28.....	7980	10090	10260	10260	10240	18505	20500	14155	13260	9920	10005	9750
29.....	8060	.....	8620	10260	10630	18790	20340	13045	13150	9920	8305	9750
30.....	8060	.....	10260	10345	17080	19875	20340	12695	13150	9920	10005	9750
31.....	8060	.....	10175	.....	15390	.....	20185	13045	.....	9920	.....	9835
Average.....	7725	9221	9985	9985	14991	19387	20378	16068	13066	9745	9614	9574
Monthly mean..	7794	8220	10023	9885	12327	18382	20158	17995	12974	11210	9586	9638

RAINY LAKE INVESTIGATION

DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
 —ALL OUTLETS—Continued  
 RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915												
1	8750	10175	10175	9580	16110	19120	23055	24850	12315	10090	9920	9835
2	9460	10175	10175	9420	14470	18975	23355	25380	12315	10090	9920	9835
3	8680	10175	10090	9340	16110	18975	23355	25380	12315	8860	9920	9835
4	9545	10175	10090	8910	16110	18975	23235	25190	12315	10090	9835	9835
5	9545	10175	10090	9100	16110	18565	23715	25000	10865	10090	9835	9580
6	9920	10175	10005	9100	16110	17875	23895	25000	12315	10090	9835	9750
7	9920	8525	8435	9260	16110	18975	24260	24815	12315	10005	9340	9665
8	10005	10175	10005	12940	16110	18975	24630	23910	12315	10005	9920	9665
9	10005	10175	10005	15475	14470	18975	24815	24260	12215	10005	9920	9665
10	8275	10175	9920	16110	16110	19120	24815	23715	12215	8775	9920	9665
Average	9410	10010	9899	10923	15782	18853	23913	24750	12150	9810	9837	9533
11	10090	10175	9835	15010	16110	19120	23975	23535	12215	10005	9920	9665
12	10090	10175	9665	16110	16110	19120	24815	23355	10765	10005	9920	9850
13	10090	10175	9580	16110	16110	18020	24815	23180	12215	10005	9920	9750
14	10090	8525	8670	16110	16110	19270	24815	23180	12215	10005	9340	9835
15	10090	10175	9420	16110	16110	19270	24630	22110	12215	9920	9920	9920
16	10090	10175	9420	16110	15210	19270	24630	22830	12215	9920	9920	10005
17	8360	10175	9340	16110	16110	19270	24630	22655	12115	8690	9920	10005
18	10090	10175	9340	14430	17570	19270	23605	22480	12115	9920	9920	10005
19	10175	10260	9260	16110	19875	18970	24445	22310	10665	9920	9920	9205
20	10175	10260	9260	16110	22480	18330	24445	21635	12115	9920	9920	10005
Average	9934	10027	9379	15832	17180	18991	24480	22727	11885	9831	9862	9735
21	10175	8610	8370	16110	22480	19270	24260	18975	12115	9920	9340	10005
22	10175	10260	9260	16110	20980	19570	24260	16410	12115	9920	9920	10005
23	10175	10260	9260	16110	18820	19875	24260	14745	12115	9920	9920	10005
24	8445	10260	9340	16110	19570	19875	24260	12970	12115	8690	9920	10005
25	10175	10260	9340	14430	19570	19875	23790	11695	12115	9920	9920	7975
26	10175	10260	9420	16110	19570	19875	25000	11695	10665	9920	9920	8565
27	10175	10260	9420	16110	19420	19085	25380	11695	12115	9920	9835	10005
28	10175	8610	8540	16110	19420	20185	25570	11835	12115	9920	9255	10005
29	10175	9500	9500	16110	19270	23180	25760	11695	12115	9920	9835	10005
30	10175	9580	9580	16110	18290	23180	25760	11835	11720	9920	9835	10005
31	8445	9580	9580	19270	19270	19270	25570	11835	8690	8690	10005	10005
Average	9860	9848	9237	15942	19696	20397	24897	13217	11931	9696	9770	9690
Monthly mean	9739	9970	9496	14232	17622	19414	24445	20005	11989	9776	9823	9654
1916												
1	10253	9977	15716	14912	27230	37126	40158	40045	33276	27410	17547	21960
2	9608	9980	15645	13648	27674	37656	40062	39099	33405	29419	18016	21910
3	10060	10009	15602	15190	28018	37674	42337	39656	32409	29661	17578	19721
4	10270	9726	15650	15719	28343	34966	42365	39896	32260	29581	17539	21613
5	9579	9348	14790	15513	28732	37955	42566	39026	31735	30289	15777	21760
6	9830	8633	15712	15029	28912	38503	42241	36876	31767	29879	18083	21492
7	10283	9782	15883	15160	28739	38056	41791	38337	29360	28785	18083	21492
8	9753	9802	15709	14701	29668	37900	42229	38368	29159	26995	17750	21304
9	8177	11041	14962	13900	30395	38522	40779	38824	28985	28356	17562	19596
10	10155	13012	15025	14777	30676	38564	42856	37850	27168	28802	18556	17383
Average	9797	10131	15469	14855	28839	37692	41738	38879	30961	28918	17588	20638
11	10309	14338	15039	14672	30040	37141	42317	36699	29283	28784	20691	17919
12	9774	15001	14215	14797	31169	37593	42316	36396	29142	27699	16000	17175
13	9301	14443	15543	14984	31035	39440	41950	34336	28859	28433	22592	16775
14	9200	15699	15449	14910	29270	39407	42506	36979	27919	28190	22912	16195
15	9091	15870	15596	14808	28326	39129	42310	36716	27872	26291	22679	15575
16	8005	15653	15653	14420	30503	38835	39381	36891	28007	26110	22647	15377
17	9832	15646	15548	15906	31666	40153	41919	36712	25442	26835	22558	13624
18	9785	15765	15548	16194	32888	37307	42716	36542	28148	27093	22373	15603
19	9876	15865	14129	17614	33649	40322	43351	36388	28089	26735	20379	15381
20	9583	14360	14410	19929	33257	40225	42965	34158	27655	27054	22393	14772
Average	9479	15264	15113	15793	31180	38961	42173	36162	28045	27322	21522	15840
21	9021	15718	13951	20456	32400	40628	42553	35875	28019	26932	22210	14702
22	9582	15775	13828	21382	34372	40828	42319	35672	27859	24334	21912	14865
23	8205	15681	13895	20154	34580	41508	40637	35796	29163	25012	21747	14494
24	9789	15669	14352	23005	35057	40962	41692	34795	26966	23008	21909	14668
25	9852	15673	14338	23778	34784	39527	41144	34467	29600	18668	22012	13575
26	9917	15649	14048	24600	35690	41170	41022	34389	30241	18136	19778	14819
27	9915	14298	14946	25475	37153	41237	40746	34016	29920	17339	22075	15135
28	9901	15666	15052	26222	36270	41587	41008	34686	29332	17601	21930	15095
29	9911	15785	15125	26529	36133	42446	40358	34240	30116	16237	21223	14737
30	8474	15021	15021	26070	36134	43344	38256	34350	30877	17676	22098	15038
31	9869	14984	14984	37684	37684	37684	39507	33777	17355	17355	21000	13363
Average	9494	15546	14503	23767	35478	41324	40840	34750	29209	20209	21779	14536
Monthly mean	9587	13582	15012	18136	31950	39326	41560	36544	29405	25313	20297	16989

DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
 —ALL OUTLETS—Continued  
 RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1917												
1.	13283	19221	19487	20130	15963	11777	4958	6052	6649	7434	7703	7932
2.	14426	19250	19283	22221	15994	11811	4993	6071	5891	7653	7615	5465
3.	14779	19345	19453	22259	16034	9724	5820	6573	6659	7779	7589	7498
4.	15074	18051	17236	22171	15974	11572	6254	6407	7351	7759	5431	7771
5.	14913	18999	18944	22073	16011	12061	6571	5777	6664	7760	7539	7865
6.	14744	19037	18777	21707	13689	11460	6618	6316	7310	7585	7735	7946
7.	13425	18972	18738	21990	16124	10531	6529	6513	7319	5701	7736	7572
8.	14723	19077	19091	19540	15682	10492	5273	6629	7042	7350	7779	7554
9.	15022	19116	19955	21718	14296	10701	6400	6482	5845	7509	7829	5521
10.	14682	19080	21319	21621	12323	9943	6710	6649	6534	7476	7780	7641
Average.	14507	18905	19228	21343	15209	11008	6013	6527	6726	7400	7474	7277
11.	13885	18007	19289	21695	12315	10238	6693	6665	6759	7633	6157	7709
12.	13916	19008	21743	21657	12239	11060	6704	5750	6756	7499	7819	7783
13.	13598	18969	22075	21678	10199	9828	6706	6234	6810	7469	7738	7278
14.	13261	18887	22550	21598	12026	8818	6663	6706	6730	5393	7660	6734
15.	13535	19241	22532	19111	12137	8758	5365	6740	6899	7251	7738	6838
16.	13645	19586	22576	21539	12217	7374	6361	6637	5577	7451	7841	5421
17.	14001	19671	23006	21498	12192	6271	6640	6666	7120	7406	7716	7509
18.	14435	17732	20767	21885	12200	7175	6604	6692	7200	7522	5462	7733
19.	14978	19444	22862	22275	12207	6697	6608	5928	7289	7477	7449	7670
20.	15198	19664	22677	22258	10207	6578	6594	6672	7070	7456	7561	7681
Average.	14045	19021	22008	21519	11804	8280	6494	6470	6821	7256	7314	7236
21.	13413	19449	22884	22236	11767	6504	6591	6792	7137	5542	7517	7710
22.	14886	19537	22873	19339	11673	6767	5296	6912	7201	7581	7553	7779
23.	15282	19633	22821	21647	11729	6998	6752	6925	5592	7440	7681	5562
24.	15795	19593	22858	22044	11795	4993	7051	6029	6862	7492	7773	7699
25.	16362	17477	20528	21944	11721	6625	7081	6759	6936	7654	5245	5404
26.	17023	19560	22740	21023	11781	6868	7122	5963	6960	7614	7545	7545
27.	17707	19361	22651	17059	9925	6993	7022	6663	6923	7592	7527	7746
28.	16295	19405	22632	16428	11602	6800	6894	6908	6967	5369	7705	7766
29.	17175	.....	22577	13893	11719	6579	5256	6743	7053	7547	7658	6271
30.	18679	.....	22511	16089	11889	6467	6830	6696	5472	7634	7718	5748
31.	18816	.....	22424	.....	11790	.....	6919	6717	.....	7731	.....	6447
Average.	16494	19502	22500	19170	11581	6553	6619	6728	6710	7200	7392	6880
Monthly mean.	15063	19117	21286	20678	12823	8614	6383	6580	6752	7283	7393	7123
1918												
1.	6348	7457	11142	10489	7024	7554	5913	6261	5979	7707	8081	6379
2.	7251	7498	11119	10719	6650	5436	6379	6280	5997	7870	8063	8041
3.	7497	6280	9031	10665	6616	7288	6814	5804	6091	7821	5764	7977
4.	7526	7472	10911	10787	6600	7562	6555	5669	6491	7763	7131	7972
5.	7472	7603	11124	10755	5105	7549	6862	6328	6581	7857	7371	8029
6.	5382	7576	11163	10799	6615	7692	6854	6336	6650	5799	7360	8032
7.	7418	7576	11265	8517	6688	7673	5684	6326	6627	7532	7338	7981
8.	7567	7418	11247	9800	6560	7692	6487	6250	6001	7784	7351	5649
9.	7506	7362	11310	7875	6643	5527	6906	6314	6481	7893	7391	7705
10.	7601	5185	8965	6622	6658	7207	6942	6274	6672	7920	5765	7919
Average.	7157	7143	10728	9703	6516	7116	6540	6184	6357	7595	7162	7568
11.	7566	7533	10819	7292	6609	7692	6949	5711	7204	7840	7569	7831
12.	7543	7492	11062	7373	5170	7574	6834	5831	7154	7831	7666	7953
13.	5406	7519	11109	7392	6706	7589	6830	5791	7285	5764	7625	7905
14.	7477	7624	11123	5053	6737	7636	5700	5768	7328	7652	7815	7918
15.	7623	7524	11134	6608	7244	7499	6275	5795	5941	7854	8027	5648
16.	7552	7509	11130	6694	7263	5567	6272	5827	6838	7627	8038	7900
17.	7683	5137	8806	6645	7455	6918	6251	5799	7490	8040	5726	8007
18.	7604	7275	10628	6636	7497	7365	6320	5737	7498	7945	7623	7931
19.	7513	7494	10913	6733	5375	7323	6497	6190	7509	7917	7882	7901
20.	5803	7584	10935	6698	7202	7383	6453	6247	7497	5758	7985	7922
Average.	7177	7269	10765	6712	6726	7255	6438	5870	7174	7423	7596	7692
21.	7511	7580	10973	5093	7321	7403	5565	6356	7651	7749	8001	7941
22.	7490	7455	10993	7036	7396	7426	6581	6284	5823	7958	7978	6323
23.	7534	7244	10877	7372	7575	5531	6401	5919	7769	8128	7906	7988
24.	7419	5186	8556	7315	7391	7255	5795	5910	7958	8165	6361	7986
25.	7703	8019	10812	6908	7518	7570	5811	5829	7922	8177	7947	5724
26.	7740	8564	11823	7528	6103	7463	5600	6017	7886	8047	7844	7819
27.	5811	9235	15851	7416	7652	6846	6072	7848	5761	7920	8153	7908
28.	7602	9791	17518	5195	7686	7013	5597	6057	7843	7938	7954	7908
29.	7588	.....	13710	6799	7559	6421	5932	6394	5870	8121	7960	6322
30.	7627	.....	10114	7301	7365	6267	5936	6495	7583	8107	8022	8035
31.	7594	.....	8507	.....	7489	.....	5836	6441	.....	8150	.....	8144
Average.	7420	7885	11794	6796	7369	6920	5876	6156	7415	7845	7789	7486
Monthly mean.	7257	7400	11118	7737	6886	7097	6271	6073	6982	7628	7515	7579

DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
 —ALL OUTLETS—Continued  
 RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919												
1	6358	5836	6641	19408	15190	8873	19144	30066	25380	19616	14787	10415
2	7283	5683	5764	19441	15673	10807	22005	29975	25358	20022	12429	10544
3	7245	6514	6690	19488	15694	11039	23521	27675	25344	19420	14569	10022
4	7933	6510	6769	19624	13211	11174	25596	27699	25707	19319	14580	10225
5	5791	6530	6924	19549	15095	10573	27152	30194	25637	18062	14572	10603
6	7864	6503	8117	17618	14008	10500	27975	30356	24250	19315	14693	10609
7	8030	6528	10312	18774	12444	10485	31706	29260	21334	19820	14707	8527
8	8031	6573	13904	18780	11107	8971	32170	29257	22867	20294	14751	10473
9	8073	6432	13076	18705	10822	10544	32062	29270	19681	21543	12670	10606
10	7946	6593	14441	19727	10882	10520	31741	26641	17915	20864	14917	10593
Average	7455	6370	9264	19111	13413	10349	27313	29039	23355	19830	14270	10260
11	7417	6584	15563	19588	8907	10660	31743	28248	17982	20655	15188	10522
12	5851	6535	15516	19633	10777	10748	30364	28458	17774	18025	15266	10563
13	6696	6506	15411	17695	11172	11132	29378	27978	17795	20066	14774	10597
14	5903	6516	15352	19715	11299	10922	31231	28624	15626	17591	13666	8532
15	6277	6607	15198	19809	11315	9117	31614	28671	17002	15519	10132	10435
16	7182	5732	13820	20122	11274	10901	32034	28339	17747	15467	8054	10490
17	7188	6477	15455	20221	11248	10757	32102	26189	17777	15405	10452	10485
18	6984	6568	15449	20171	8969	10500	32103	28634	17795	15466	10301	10470
19	5653	6506	15364	20049	10925	10610	29803	28918	18102	12952	10209	10435
20	6373	6511	15372	17528	11132	10650	29126	28372	17962	14695	10238	10406
Average	6552	6454	15250	19453	10702	10600	30950	28243	17556	16580	11830	10290
21	6345	6577	15339	19470	11067	10882	31592	26153	15658	14949	10297	8347
22	6278	6589	15182	15680	11107	9562	31949	25939	17271	14810	10297	10132
23	7102	5745	13336	15707	11122	11099	31824	25791	17162	15137	8163	10488
24	7022	6582	15175	15681	8898	11568	31652	24630	17235	14825	10242	10289
25	6494	6571	17035	15679	8744	11899	31259	26335	17279	14883	10328	8251
26	5787	6600	18292	15587	10663	11720	30828	26027	17495	12538	10231	10159
27	5893	6616	19712	13183	10891	11854	28276	26102	17642	14756	10167	10575
28	5846	6572	19750	15158	10710	15247	30359	26158	15664	14839	10326	8282
29	5847	.....	19638	15333	10204	16331	30134	26125	17505	14868	10366	10169
30	6519	.....	17698	15271	10246	19558	30364	26070	17663	14888	8400	10270
31	6555	.....	19343	.....	10620	.....	30041	23649	.....	14851	.....	10082
Average	6335	6481	17318	15675	10388	12971	30753	25725	17057	14670	9880	9730
Monthly mean	6767	6432	14053	18080	11465	11306	29707	27607	19323	16950	11990	10080
1920												
1	8258	10780	11528	17524	22871	21667	19854	16280	10569	11597	7362	6294
2	9915	11687	11635	17603	21942	21857	22150	16443	10419	11640	7072	6284
3	9735	12266	11835	17530	23058	21771	22425	16617	10599	9800	7187	6325
4	8078	11702	12659	17414	23135	21265	19777	13987	10554	11515	7296	6365
5	9658	11837	13609	17467	23183	21136	21207	12587	9676	11259	7316	5564
6	9579	11820	14321	17554	23208	19937	21525	12664	10495	11128	7316	5694
7	9972	12169	14134	17609	23226	21285	21529	12704	10585	10146	5750	6316
8	10256	10999	14193	18383	23185	21262	21458	12609	10919	9828	7509	6428
9	10321	12011	14652	18259	22029	21156	21461	12844	11191	9424	7584	6348
10	10266	12048	15359	18317	22879	21378	21538	12853	11221	7659	7473	6372
Average	9600	11730	13390	17770	22870	21270	21290	13960	10620	10380	7190	6200
11	8614	12123	15523	17337	22873	21343	20154	12889	11193	8416	7686	6382
12	10366	12105	16449	17852	22801	20523	21528	12906	11201	7853	7564	5583
13	10373	12143	17233	17814	22748	20216	21703	13318	11230	7222	6720	6346
14	10379	12219	16931	17575	22922	21270	21717	13448	11195	7778	5802	6368
15	10248	11226	17022	17529	22934	21702	21761	12910	11222	7685	6873	6357
16	10039	12268	17582	17401	21634	21885	21305	13648	11210	7712	6614	6316
17	9686	12246	17048	17568	23359	21782	20559	13589	11182	5866	6586	6355
18	7973	12334	17063	16967	23304	21617	20090	12772	11283	7622	6584	6389
19	9677	12228	17050	17315	23226	21456	18352	12957	9913	7387	6582	5610
20	9601	12190	17105	18129	23310	20076	16386	12910	11182	7177	7209	6264
Average	9700	12100	16900	17550	22910	21190	20360	13130	11080	7470	6820	6200
21	9862	12161	16994	18316	23440	21361	16705	13211	11240	7529	5707	6236
22	10221	11223	17151	18322	23543	21865	16642	11287	11237	7499	7134	6918
23	10250	12075	17107	18415	21359	22099	16607	10927	11265	7624	7229	6936
24	11440	11198	17081	18633	23166	22088	16627	11296	11242	5794	7156	6962
25	9544	11178	17152	17850	23891	22134	16534	11728	11236	7817	6523	5520
26	11390	11159	17094	18800	23514	22115	16557	11523	9929	8051	7028	5526
27	12426	11158	17119	19133	23522	20012	16460	11367	11145	8108	7005	7125
28	11885	11159	17127	21339	21957	21953	16552	11212	11410	8068	5568	7035
29	11579	11062	17395	22819	21575	22210	16992	9979	11514	7592	6909	8219
30	11705	.....	17408	22891	19796	22345	16966	10361	11504	7317	6734	9997
31	11648	.....	17721	.....	21562	.....	16990	10302	.....	5681	.....	8358
Average	11090	11380	17210	19650	22480	21820	16690	11200	11170	7370	6700	7170
Monthly mean	10160	11750	15880	18320	22750	21430	19360	12710	10960	8370	6900	6540

DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
—ALL OUTLETS—Continued

RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
(Cubic feet per second)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1921												
1	6960	7829	7764	13945	21902	14320	9182	9059	8079	9309	9294	8243
2	6924	7786	7974	14702	23083	14441	9471	9837	8783	7111	9260	8831
3	7725	7777	8644	13205	23162	14429	9367	9736	8714	9056	9258	9038
4	7827	8533	8656	14478	22948	14434	10430	9581	7850	9249	9229	6760
5	7795	8412	8531	16182	22963	13721	10352	9440	8648	9108	9272	8972
6	7777	6903	7093	17789	22855	14897	10312	9540	8736	8775	6969	9045
7	7765	7935	8499	18786	22853	15015	10218	8194	8760	8864	7496	8941
8	7846	8011	8240	19454	21604	15131	10192	8446	8746	8826	9346	8819
9	7016	8069	8064	19777	23410	15186	10091	8435	8685	6967	9230	8601
10	8501	7920	7918	18680	23582	15834	9059	8420	8592	8723	9309	8532
Average	7610	7920	8140	16700	22840	14740	9870	9070	8560	8600	8870	8580
11	8729	7941	7767	19640	23591	15917	10267	8352	7107	8968	9339	6585
12	8780	7965	7764	19911	23652	14142	10267	8396	8467	9130	9181	8223
13	8719	6848	6894	20486	23604	15573	10251	8393	8511	8783	6926	8540
14	8686	7184	8303	21227	23701	15570	10329	7552	8539	8840	9089	8419
15	8704	7213	8361	22040	21601	15617	10343	7606	8548	8819	9138	8192
16	6879	7244	8437	22651	22676	15629	10296	7586	8654	6968	9212	8214
17	8493	7207	8398	22044	22614	15729	8963	7594	8674	9041	9233	8165
18	8481	7772	8319	23314	22655	15758	10360	7927	7254	9277	9225	6500
19	8502	7879	8445	23387	22688	14243	10500	7008	9079	9291	9312	8544
20	8635	6860	6948	23050	22660	15749	10478	7610	9465	9273	6943	8418
Average	8460	7410	7960	21780	22640	15390	10210	7530	8430	8840	8760	7980
21	8525	7734	8316	23034	22999	15861	10465	7663	9421	9237	9128	8032
22	8649	7799	8403	23038	21629	15874	10571	8102	9173	9391	9311	8004
23	7006	8511	8585	22924	22659	14165	10535	8131	9511	7046	9202	7938
24	8576	7881	8526	21858	22553	10722	9164	8155	9443	9140	9130	7122
25	8689	7814	8347	22834	22479	10533	10489	8080	7278	9245	9068	6257
26	8605	7885	8417	22852	21685	8888	10591	8192	9020	9324	9174	6245
27	8649	6809	6999	23138	21018	9827	10772	8145	9323	9378	7339	8011
28	8491	7719	8394	23084	17546	9838	10711	7296	9340	9391	9253	7797
29	8578	.....	8447	23116	15686	9917	10717	8091	9335	9407	9218	7952
30	6990	.....	9993	23275	15555	10043	10815	8160	9277	7060	8245	7953
31	7922	.....	12006	.....	14326	.....	9295	8022	.....	9176	.....	7875
Average	8240	7770	8770	22920	19830	11570	10380	7980	9140	8890	8910	7570
Monthly mean	8110	7690	8310	20470	21800	13900	10160	8199	8710	8780	8840	8030
1922												
1	6261	8241	8312	7422	23286	24251	22051	14441	14105	7157	8340	8042
2	6234	8218	8254	6622	24339	24348	21957	14500	14175	9512	8340	7997
3	7526	8167	8192	7478	24283	24398	23785	14635	12328	9759	8452	5612
4	7340	8168	8152	7497	24359	23085	23708	14662	14021	9550	8509	8025
5	7694	6748	6460	10702	24446	23189	23205	14703	14080	9759	5728	8080
6	8091	8167	7834	13479	24431	22931	23093	12932	12584	9658	8212	8100
7	8128	8222	8091	12943	22375	22865	21905	12996	11705	9593	8523	8050
8	6545	8255	7915	12999	24178	22684	18132	14603	11722	7022	8485	8050
9	7359	8228	7995	11546	24492	22511	15733	14617	11661	9210	8501	8032
10	8026	8223	7990	12516	24631	22490	15659	14763	9798	9347	8073	5370
Average	7320	8060	7920	10320	24080	23280	20920	14290	12620	9060	8130	7540
11	7950	8230	8000	12702	25216	22176	14421	14843	11409	9378	8464	7883
12	8094	6870	6508	12674	25447	22378	14122	14892	11531	9371	5791	8090
13	8189	8373	7890	12725	25647	22498	14229	13089	11455	9411	8143	8153
14	7361	8354	8050	11967	23464	23281	14154	13091	11459	9470	8373	8047
15	6577	8333	8103	12104	25342	23550	14205	13008	11360	7073	8238	8066
16	7547	8317	8157	12045	25536	23636	12699	13090	11383	9344	8258	8095
17	7555	8312	8173	12994	25615	23620	14199	13188	9562	9571	8211	5533
18	7567	8332	8062	13095	25750	22686	14323	13313	11744	9495	8229	7845
19	7590	6752	6634	13705	25719	23712	14442	13307	12114	9397	5610	8064
20	8238	8347	7999	18130	25717	23810	14395	13193	12059	8738	8034	8068
Average	7670	8020	7760	13210	25350	23130	14120	13500	11410	9120	7740	7790
21	8185	8470	8161	21319	23636	23722	14419	13407	12113	8677	8144	7815
22	6788	8471	8180	22350	24454	23708	14313	13319	12118	6108	8066	7768
23	8253	8421	8175	21660	24674	23578	12613	13867	12277	8217	8076	7018
24	8296	8329	8216	22946	23680	23654	14033	13687	9683	8040	7653	5493
25	8232	8345	8134	23031	24654	22439	14190	13586	11836	7948	8089	5444
26	8222	6799	6656	23172	24621	24188	14405	13372	12101	8041	5605	7635
27	8223	8391	7949	23374	24618	24405	14419	12320	11990	8047	8036	7732
28	8242	8388	8150	23438	23499	23841	14404	13099	11976	8213	7957	768
29	6690	.....	8036	23351	24649	23177	14394	13847	9769	5604	8039	7629
30	8284	.....	8004	22245	24587	22058	12807	14262	9914	8145	8032	7513
31	8273	.....	7503	.....	24368	.....	14393	14185	.....	8321	.....	6240
Average	7970	8200	7920	22690	24310	23480	14040	13540	11370	7760	7770	7090
Monthly mean	7660	8090	7870	15410	24570	23300	16280	13770	11800	8620	7880	7460

RAINY LAKE INVESTIGATION

DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
—ALL OUTLETS—Continued  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
[Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1923												
1	6080	7351	8523	20724	19330	10902	10326	11794	9568	10957	10406	10360
2	6979	7429	8682	23090	19425	10667	8566	11775	9305	11653	10326	8675
3	6983	7450	8388	24292	19670	7829	10746	11835	8536	11616	10187	10161
4	6770	5598	6431	25649	19420	10042	11870	11692	9384	11587	8599	10069
5	6969	6633	8394	25662	19305	10886	12014	9894	9845	11335	10229	10055
6	6958	6925	8706	25656	17580	11709	11321	11147	9187	11637	10113	10018
7	5655	7355	8632	25437	19049	11734	11113	12235	10033	9244	10103	9944
8	6881	7386	9257	23038	19337	11265	10825	12202	10653	10943	10069	10027
9	6951	7403	9230	24302	15113	10989	9623	12136	9392	11075	10080	8673
10	6909	6956	9536	24837	14668	8242	10614	12106	10868	11051	10054	9681
Average	6710	7050	8580	24280	18290	10430	10700	11680	9680	11110	10020	9770
11	7647	5594	6398	24726	14648	11319	10778	11803	10835	10936	8094	9698
12	7121	6440	9274	24652	13124	11817	11304	10410	10867	11079	10217	9628
13	6966	6790	11576	24502	12767	11803	10884	11553	10793	10963	10413	9578
14	5689	7336	12467	24338	13091	11787	10782	11143	10404	6981	10364	9602
15	6523	7325	13313	21565	14411	11802	8646	11181	10636	9628	10317	9516
16	6988	7247	14150	23294	14374	11353	11159	10743	8286	10332	10313	7874
17	6830	7313	15066	24292	14195	8961	10585	10881	10594	10350	10192	9451
18	6781	5515	13021	22986	13868	11779	11301	10703	10513	10519	8299	9569
19	5625	6451	16922	21009	12873	12039	11091	9190	10690	10731	10214	9487
20	6561	6778	17528	17825	12942	11973	11355	9622	10775	10734	10292	9469
Average	6670	6680	12970	22920	13630	11460	10790	10720	10440	10230	9860	9390
21	5562	7422	17681	17757	13911	11938	11235	9775	10456	8386	10268	9451
22	6811	7472	17890	15340	14068	12057	9487	10253	10392	9511	10246	9375
23	6910	7513	19997	17742	14319	11996	11220	10478	8982	10168	10232	8658
24	6943	7441	17762	18034	12925	9142	11500	10613	10682	9993	10195	7781
25	7036	5589	17675	18313	13740	11724	11554	10697	10801	9966	8325	5488
26	7004	7052	20242	19039	13866	11921	11829	9484	10894	10271	10249	8810
27	7015	7709	21146	10400	12304	11847	11802	10755	10910	10146	10364	9842
28	5451	7995	21409	19020	13021	11184	11858	10688	11018	8563	10376	10019
29	7255	22490	17419	13759	11201	10990	10881	10963	10137	10363	9641	
30	7593	22763	19434	12230	11222	11148	11552	9254	10349	10352	8437	
31	7535	22847	11161				11350	9394	10391		8748	
Average	6820	7270	20170	18150	13210	11420	11270	10390	10440	9810	10100	8750
Monthly mean	6740	6980	14110	21780	14980	11100	10930	10910	10180	10360	9990	9280
1924												
1	7615	10215	9532	8616	9821	6988	5423	10818	4856	11025	10223	9532
2	8543	10523	7948	8905	9591	8954	10134	10210	7978	10915	8932	9749
3	8909	8385	9669	8871	9717	8790	11097	7097	8282	10959	9977	9563
4	9059	9749	10111	9173	7994	8640	10594	8636	8713	10896	10119	9629
5	8565	9837	8129	9007	9065	8840	11022	10528	8901	7654	10272	9598
6	6402	10116	10081	7981	9940	9381	8477	10633	9407	9568	10114	9615
7	8742	10033	10318	9113	10107	9764	9621	10569	8405	11119	9966	9695
8	9183	10319	10515	9473	10170	7647	9919	10587	9619	11227	10179	9619
9	9515	10506	8705	9468	10374	8520	9932	10583	10112	11040	9660	9699
10	9551	8871	9580	8791	10132	9159	10390	8628	10490	11107	9769	9716
Average	8610	9860	9490	8940	9720	8670	9660	9830	8680	10550	9920	9640
11	9543	10407	9379	9641	6516	9159	10492	9888	10928	10970	9727	9720
12	9466	10513	9918	9635	8869	9294	10616	10565	11102	10437	9862	9798
13	8525	10482	9517	8763	9575	9437	8653	10759	10935	10490	9737	9684
14	9836	10520	9924	9537	9718	9937	10299	10723	7842	10807	9698	9741
15	10029	10439	10044	10143	9551	6742	10577	10943	10652	10820	9754	9809
16	10439	10414	8603	10148	9958	8739	10648	10868	11056	10641	10182	9831
17	10286	8516	10222	10073	9861	8747	10744	7739	11090	10859	9913	9806
18	10378	7734	10320	9870	7150	9178	10181	9136	11169	10705	9966	9809
19	10477	8733	10523	9622	9013	8823	10063	11180	11185	9863	10074	9832
20	8813	9594	10615	8405	9412	9262	8699	11319	10970	10436	9981	9624
Average	9780	9740	9960	9580	9000	8930	10100	10310	10690	10600	9890	9770
21	10097	10033	10645	10137	9692	9160	9526	10622	10991	10551	9918	9662
22	10511	10121	10595	10171	9753	7272	9874	10102	11186	10792	9822	9617
23	10598	9772	8347	10182	9759	9730	10536	10199	11044	10798	9038	9663
24	10453	8510	9923	10100	9595	10241	10183	8411	10924	10812	9454	8300
25	10471	9280	10543	10215	7210	10405	10457	8397	11023	10705	9288	5395
26	10437	9717	10303	10078	9901	10109	10620	8422	11078	10117	9462	8435
27	8655	9669	10140	6776	9997	10796	7902	9307	10991	9993	9653	9623
28	10032	9692	9312	9123	10429	10308	10544	9282	11089	10062	9606	9478
29	10472	9454	9325	9123	10505	7616	10968	8942	11022	10222	9754	9084
30	10446		8797	9732	10364	9978	10886	9240	10966	10305	9673	9477
31	10389		8918		10132		10842	8231		10191		9424
Average	10230	9580	9700	9650	9680	9560	10210	9170	11030	10410	9570	8970
Monthly mean	9560	9730	9710	9390	9470	9350	10000	9750	10130	10520	9790	9440



DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
 —ALL OUTLETS—Continued  
 RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD  
 [Cubic feet per second]

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1925												
1.....	9450	4024	5155	5657	6419	5230	776	5245	6522	6700	5180	6730
2.....	9400	5612	5796	5708	6730	5190	4173	4325	6674	6710	6510	6640
3.....	9389	5142	5810	5702	5497	5354	5817	4781	6540	6690	6780	6630
4.....	9476	5805	5796	5656	6130	5266	5896	5709	6678	4820	6920	6660
5.....	8907	5673	5812	3542	6225	5405	4603	5723	5044	6550	6020	6520
6.....	9244	5759	5769	5638	6059	5424	5330	5766	4819	6690	4130	4550
7.....	9255	5783	5747	5931	5910	3668	5855	5687	1108	6750	4150	6520
8.....	9193	5541	4613	6037	5299	5157	5512	5671	5944	6800	2230	6730
9.....	9220	5548	5634	6083	5048	5060	5762	3891	6473	6900	6530	6570
10.....	9197	5661	5802	5876	2538	5602	6054	5746	6410	6920	7120	6550
Average.....	9270	5520	5540	5580	5540	5140	4980	5250	5320	6560	5560	6410
11.....	9216	5669	5366	6113	2546	5619	5856	5919	6544	4520	7050	6630
12.....	9043	5631	5614	4236	2629	5560	4466	5999	6680	6560	6900	6750
13.....	9057	5683	4660	5743	4598	5193	5706	5803	4874	6910	6680	4700
14.....	8960	5626	5257	5915	5916	3672	6017	5842	6299	7080	6640	6420
15.....	8983	5794	3602	6183	5951	5482	5791	6207	6491	7040	5050	6380
16.....	8905	5719	5359	6050	6221	5835	3880	3267	6462	7170	6580	6190
17.....	8667	5729	5625	6172	1991	5921	3575	5569	6523	7100	6520	6250
18.....	8101	5675	5768	6142	3530	5820	4368	5714	6510	5090	6610	6420
19.....	7943	5662	5707	4601	4280	5725	3765	5836	6469	6430	6670	6660
20.....	8264	5679	5458	6138	5152	5132	4681	5888	4683	6800	7130	3380
Average.....	8710	5690	5290	5730	4280	5400	4810	5600	6150	6470	6580	6030
21.....	8135	5602	3672	6098	5120	4357	4876	5668	6369	6810	6970	6620
22.....	8234	5807	3487	6015	5187	5443	4671	5701	6467	6600	4950	6830
23.....	8154	5645	3977	6002	3332	5784	4740	4798	6510	6750	6450	6750
24.....	8227	5664	4937	123	3914	5401	4925	5022	6576	6640	6720	4860
25.....	7988	5668	5612	6112	5143	5442	4873	5155	6564	4900	6860	1840
26.....	7988	5494	5632	3508	5170	5373	4720	5670	6517	6460	6480	3870
27.....	8002	5200	5733	6183	5183	6193	4745	6616	4137	6980	6940	4870
28.....	6212	5250	5868	6133	5204	5162	5046	6724	6552	6850	6830	5620
29.....	5956	.....	5470	6336	5160	5561	4922	6532	6771	6940	3170	6300
30.....	5502	.....	5507	6298	5119	5633	4802	2440	6672	7040	5610	6220
31.....	5052	.....	5736	.....	3746	.....	4870	5933	.....	6850	.....	6160
Average.....	7220	5530	5060	5890	4940	5430	4840	5480	6310	6620	6100	5450
Monthly mean..	8370	5580	5290	5730	4920	5320	4870	5450	6030	6550	6080	5950
1926												
1.....	5130	5850	5830	7390	11000	11000	1270	13100	9570	10400	29900	16900
2.....	5330	6190	5990	6460	9770	11200	7730	13700	9380	10400	29800	17100
3.....	4720	6150	5920	6250	11100	10800	9110	14200	9540	7600	29700	16800
4.....	6570	6100	5950	5110	1130	10300	8780	14100	9450	10300	29700	16600
5.....	6950	6130	5970	6400	11400	10100	14400	14600	6120	10300	29400	14700
6.....	6830	6220	5170	7940	10600	6180	9370	14600	3180	9710	29400	16900
7.....	6790	3760	6019	8560	10900	8560	9350	9790	8960	9680	26500	16900
8.....	6190	5590	6250	9150	11100	9340	9340	7970	10000	10300	29000	16700
9.....	5790	6110	5990	8160	7470	9460	9150	9790	10100	10300	29300	16800
10.....	3560	6160	6180	8450	10400	9270	17400	10400	9700	6830	26200	16400
Average.....	5820	5830	5830	7390	10500	9520	9590	12230	8600	9380	28900	16600
11.....	6240	6150	6050	7690	11200	9420	15100	7580	9040	9570	25600	16300
12.....	6850	6100	6069	9460	11100	9360	17200	9670	6890	9770	25000	12800
13.....	6870	6050	5540	10400	11400	7260	18090	9520	9630	24100	25200	16200
14.....	6830	3720	2340	11200	11300	9310	18300	8920	10100	23400	20500	16800
15.....	6760	5960	5560	11500	10700	10800	19200	7700	10100	24200	24700	17400
16.....	5870	5820	7150	10500	7040	10900	18600	8370	9860	29300	19800	16700
17.....	4840	5890	6800	10500	9820	10900	18200	9080	9930	26100	20300	17000
18.....	6450	5730	6850	5830	11000	10400	16700	9030	9970	28900	19600	16900
19.....	6890	5800	6820	9770	11300	10500	17800	8910	6790	29400	19600	14000
20.....	6500	5710	6750	11200	11300	6680	18300	8540	10100	29800	19100	17000
Average.....	6410	5690	5990	9810	10620	9550	17800	8730	9240	23500	21900	16100
21.....	6480	4100	4610	11700	11400	10300	18700	8940	9890	29500	13000	16900
22.....	6320	5590	6440	11600	10700	11000	19400	7510	10700	29600	18800	17100
23.....	5820	5250	6980	11100	6550	10600	19600	8260	10500	29900	19500	17200
24.....	4740	5300	7130	10700	8480	10700	17600	8900	10800	26600	20000	15600
25.....	6540	5140	7130	8840	10800	10800	14200	9560	10700	29800	19600	7470
26.....	6770	4760	7120	10800	11500	10900	16800	10200	4110	29600	19900	13500
27.....	6660	4100	6160	11300	11000	6540	17400	9070	10500	29600	18100	16900
28.....	7050	4150	2130	11600	11100	9900	17400	9760	10500	29600	12500	17200
29.....	6370	.....	5390	11500	10000	10500	17400	7350	10700	29400	16600	17100
30.....	5530	.....	7100	11200	7690	9340	16100	8870	10400	29600	16800	17000
31.....	3980	.....	7260	.....	10200	.....	16100	9510	.....	26400	.....	17200
Average.....	6020	4800	6130	11030	9950	10060	17340	8900	9880	29100	17500	15700
Monthly mean..	6080	5490	5990	9410	10340	9740	15000	9920	9240	21000	22800	16100

RAINY LAKE INVESTIGATION

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DAILY DISCHARGE OF THE WINNIPEG RIVER FROM LAKE OF THE WOODS  
—ALL OUTLETS—Concluded

RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

(Cubic feet per second)

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1927												
1.....	15100	17200	20600	23200	41800	50600	48100	46500	26100	11500	12000	11600
2.....	14200	16900	20900	23600	44400	50800	49600	48100	24500	3150	12000	11500
3.....	16600	16900	20700	22200	44300	50800	49500	45300	23900	11400	12000	11700
4.....	17000	16500	20800	25100	44400	51000	51300	42000	22100	11500	12200	8650
5.....	16700	15600	20900	26000	44400	48900	51600	40900	19200	11600	12200	11200
6.....	16800	13500	18700	26400	44500	51200	51300	39700	21400	11500	9120	11300
7.....	17100	15900	20800	26500	44300	51300	50600	38000	21300	11400	11900	11700
8.....	16300	16100	20700	26600	41900	51300	50600	38100	22800	11700	12100	11600
9.....	14100	19000	20700	26700	44000	51200	50400	38000	22600	8990	11900	11700
10.....	15800	19200	20900	25300	43900	51100	49200	38400	18700	11600	12500	11500
Average.....	16000	16700	20600	25200	43800	50800	50200	41500	22300	10400	11800	11200
11.....	16400	19100	20900	27100	44500	51000	50900	38000	15600	11700	12600	8390
12.....	16600	21300	20900	27200	46800	48900	50800	37400	17700	11900	12400	10900
13.....	16500	16500	18400	27400	47200	50700	50700	36700	18200	12300	8930	11300
14.....	16400	20600	20500	27400	47300	50700	50600	34200	17300	12100	12000	11600
15.....	16400	21000	20500	27400	45500	50600	50400	35700	14900	12000	12200	11400
16.....	13900	20900	21000	27100	48400	50700	50600	35400	12400	8750	12600	11600
17.....	16400	20900	21900	25600	48800	50700	48500	35200	12000	12000	12200	11600
18.....	17000	21800	22100	28500	48900	50400	50400	35100	10300	11700	12100	7550
19.....	17400	21700	20800	29100	48900	48200	50300	34900	13200	11900	11600	11100
20.....	17300	18300	17400	29900	48900	49800	50200	33100	11800	12000	7340	11300
Average.....	16400	20200	20400	27700	47500	50200	50300	35600	14300	11600	11400	10700
21.....	17500	20800	21000	30700	48900	49600	50100	32800	12200	12000	11400	11300
22.....	17400	20800	21400	31000	46600	49800	49800	34000	12300	11900	11330	11500
23.....	13400	20900	21400	33200	48900	50100	49800	34700	12300	8900	11400	10500
24.....	16800	21800	21500	33100	49000	50700	47400	34400	11800	11700	11600	5340
25.....	17200	22000	21700	36000	49100	51000	49300	33800	7120	12200	11500	2420
26.....	17100	21900	20600	37090	49300	49100	49500	32800	11200	11800	11400	4180
27.....	17200	17900	18800	38200	49700	51400	49500	32600	11800	12100	8190	10000
28.....	16700	20500	21400	39300	50200	51300	49400	32000	11800	12100	11400	9780
29.....	16500	.....	21600	39300	48900	51300	49300	33000	11800	12100	11200	10800
30.....	14600	.....	21700	39900	50600	51200	47600	31300	11800	9200	11500	11100
31.....	16900	.....	20300	.....	50600	.....	46300	29700	.....	12000	.....	10200
Average.....	16500	20800	21000	35800	49300	50600	48900	32800	11400	11500	11100	8830
Monthly mean..	16300	19100	20700	29500	46900	50500	49800	36530	16300	11200	11400	10200

TABLE OF EQUIVALENT LAKE LEVELS—FOR STORAGE ON LAKE OF THE WOODS—IN BILLIONS OF CUBIC FEET

[Elevations refer to Sea-level Datum—Area Lake of the Woods, 1,485 square miles—1.0 ft. storage=41.4 B.C.F.]

Lake level	Storage B.C.F.	Lake level	Storage B.C.F.	Lake level	Storage B.C.F.	Lake level	Storage B.C.F.	Lake level	Storage B.C.F.	Lake level	Storage B.C.F.
1056.00	0	1057.00	41.40	1058.00	82.80	1059.00	124.20	1060.00	165.60	1061.00	207.00
56.05	2.07	57.05	43.47	58.05	84.87	59.05	126.27	60.05	167.67	61.05	209.07
56.10	4.14	57.10	45.54	58.10	86.94	59.10	128.34	60.10	169.74	61.10	211.14
56.15	6.21	57.15	47.61	58.15	89.01	59.15	130.41	60.15	171.81	61.15	213.21
56.20	8.28	57.20	49.68	58.20	91.08	59.20	132.48	60.20	173.88	61.20	215.28
56.25	10.35	57.25	51.75	58.25	93.15	59.25	134.55	60.25	175.95	61.25	217.35
56.30	12.42	57.30	53.82	58.30	95.22	59.30	136.62	60.30	178.02	61.30	219.42
56.35	14.49	57.35	55.89	58.35	97.29	59.35	138.69	60.35	180.09	61.35	221.49
56.40	16.56	57.40	57.96	58.40	99.36	59.40	140.76	60.40	182.16	61.40	223.56
56.45	18.63	57.45	60.03	58.45	101.43	59.45	142.83	60.45	184.23	61.45	225.63
56.50	20.70	57.50	62.10	58.50	103.50	59.50	144.90	60.50	186.30	61.50	227.70
56.55	22.77	57.55	64.17	58.55	105.57	59.55	146.97	60.55	188.37	61.55	229.77
56.60	24.84	57.60	66.24	58.60	107.64	59.60	149.04	60.60	190.44	61.60	231.84
56.65	26.91	57.65	68.31	58.65	109.71	59.65	151.11	60.65	192.51	61.65	233.91
56.70	28.98	57.70	70.38	58.70	111.78	59.70	153.18	60.70	194.58	61.70	235.98
56.75	31.05	57.75	72.45	58.75	113.85	59.75	155.25	60.75	196.65	61.75	238.05
56.80	33.12	57.80	74.52	58.80	115.92	59.80	157.32	60.80	198.72	61.80	240.12
56.85	35.19	57.85	76.59	58.85	117.99	59.85	159.39	60.85	200.79	61.85	242.19
56.90	37.26	57.90	78.66	58.90	120.06	59.90	161.46	60.90	202.86	61.90	244.26
56.95	39.33	57.95	80.73	58.95	122.13	59.95	163.53	60.95	204.93	61.95	246.33

## REPORT OF ENGINEERS

## LAKE OF THE WOODS

RATES OF DISCHARGE FOR 8, 9, 10, 11, 28, 29, 30 AND 31-DAY PERIODS EQUIVALENT TO VOLUME  
REPRESENTED BY GIVEN DEPTH ON LAKE OF THE WOODS

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

[Area, 1,485 square miles]

Feet depth on Lake	Rate of discharge in cubic feet per second							
	8 days	9 days	10 days	11 days	28 days	29 days	30 days	31 days
0-01.....	599	532	479	436	171	165	160	155
0-02.....	1198	1064	958	871	342	330	319	309
0-03.....	1797	1596	1437	1307	513	496	479	464
0-04.....	2396	2129	1917	1742	685	661	639	618
0-05.....	2995	2662	2396	2178	856	826	799	773
0-06.....	3594	3194	2875	2613	1027	991	958	927
0-07.....	4193	3726	3354	3049	1198	1157	1118	1082
0-08.....	4792	4258	3833	3485	1369	1322	1278	1237
0-09.....	5391	4791	4312	3921	1540	1487	1438	1391
0-10.....	5990	5324	4792	4356	1711	1652	1597	1546
0-11.....	6589	5856	5271	4791	1882	1817	1757	1701
0-12.....	7188	6388	5750	5227	2053	1982	1917	1855
0-13.....	7787	6920	6229	5662	2224	2147	2076	2010
0-14.....	8386	7453	6708	6098	2396	2313	2236	2164
0-15.....	8984	7986	7187	6533	2568	2478	2396	2319
0-16.....	9583	8518	7667	6969	2739	2643	2555	2471
0-17.....	10182	9050	8146	7404	2910	2808	2715	2626
0-18.....	10781	9582	8625	7840	3081	2974	2875	2781
0-19.....	11380	10115	9104	8276	3252	3139	3035	2936
0-20.....	11979	10648	9583	8712	3423	3305	3194	3091
0-21.....	12578	11180	10062	9148	3594	3470	3354	3245
0-22.....	13177	11712	10542	9583	3765	3635	3513	3400
0-23.....	13776	12244	11021	10019	3936	3800	3673	3554
0-24.....	14375	12777	11500	10454	4107	3965	3833	3709
0-25.....	14974	13310	11979	10890	4278	4131	3993	3864
0-26.....	15573	13842	12458	11325	4448	4296	4152	4019
0-27.....	16172	14374	12937	11761	4619	4461	4312	4173
0-28.....	16771	14906	13417	12197	4790	4627	4472	4328
0-29.....	17370	15439	13896	12633	4962	4792	4632	4483
0-30.....	17969	15972	14375	13068	5134	4957	4792	4637
0-31.....	18568	16504	14854	13504	5305	5122	4951	4792
0-32.....	19167	17036	15333	13939	5476	5287	5111	4946
0-33.....	19766	17568	15812	14375	5647	5452	5271	5101
0-34.....	20365	18101	16292	14810	5818	5617	5431	5255
0-35.....	20963	18634	16771	15246	5990	5783	5591	5410
0-36.....	21562	19166	17250	15681	6161	5948	5750	5565
0-37.....	22161	19698	17729	16117	6332	6113	5910	5719
0-38.....	22760	20230	18208	16553	6503	6279	6070	5874
0-39.....	23359	20763	18687	16989	6674	6444	6230	6029
0-40.....	23958	21296	19166	17424	6845	6609	6389	6183
0-41.....	24557	21828	19646	17860	7016	6774	6549	6337
0-42.....	25156	22360	20125	18295	7187	6939	6708	6492
0-43.....	25755	22892	20604	18731	7358	7104	6867	6646
0-44.....	26354	23425	21083	19166	7529	7269	7027	6801
0-45.....	26953	23958	21562	19602	7701	7435	7187	6955
0-46.....	27552	24490	22041	20037	7872	7600	7347	7110
0-47.....	28151	25022	22521	20473	8043	7765	7507	7265
0-48.....	28750	25554	23000	20909	8214	7930	7667	7419
0-49.....	29349	26087	23479	21345	8385	8096	7827	7574
0-50.....	29948	26620	23958	21780	8557	8262	7986	7729

RATES OF DISCHARGE FOR 8, 9, 10, 11, 28, 29, 30 AND 31-DAY PERIODS EQUIVALENT TO VOLUME REPRESENTED BY GIVEN DEPTH ON LAKE OF THE WOODS—Concluded

COMPILED BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

[Area, 1,485 square miles]

Feet depth on Lake	Rate of discharge in cubic feet per second							
	8 days	9 days	10 days	11 days	28 days	29 days	30 days	31 days
0-51	30547	27152	24437	22216	8728	8427	8146	7883
0-52	31146	27684	24916	22651	8899	8592	8305	8038
0-53	31745	28216	25396	23087	9070	8757	8465	8193
0-54	32344	28749	25875	23522	9241	8922	8625	8347
0-55	32942	29282	26354	23958	9412	9088	8785	8501
0-56	33541	29814	26833	24393	9583	9253	8944	8656
0-57	34140	30346	27312	24829	9754	9418	9104	8810
0-58	34739	30878	27791	25265	9925	9583	9264	8965
0-59	35338	31411	28270	25701	10096	9748	9424	9119
0-60	35937	31944	28750	26136	10268	9914	9583	9274
0-61	36536	32476	29229	26572	10439	10079	9743	9428
0-62	37135	33008	29708	27007	10610	10244	9902	9583
0-63	37734	33540	30187	27443	10781	10409	10062	9738
0-64	38333	34073	30666	27878	10952	10574	10222	9892
0-65	38932	34606	31145	28314	11123	10740	10382	10047
0-66	39531	35138	31624	28749	11294	10905	10542	10202
0-67	40130	35670	32104	29185	11465	11070	10701	10356
0-68	40729	36202	32583	29621	11636	11235	10861	10510
0-69	41328	36735	33062	30057	11807	11401	11021	10665
0-70	41927	37268	33541	30492	11979	11566	11180	10820
0-71	42526	37800	34020	30928	12150	11731	11340	10974
0-72	43125	38332	34499	31363	12321	11896	11500	11129
0-73	43724	38864	34978	31799	12492	12061	11659	11283
0-74	44323	39397	35458	32234	12663	12226	11819	11438
0-75	44921	39930	35937	32670	12835	12391	11979	11593
0-76	45520	40462	36416	33105	13006	12556	12138	11747
0-77	46119	40994	36895	33541	13177	12721	12298	11902
0-78	46718	41526	37374	33977	13348	12887	12458	12057
0-79	47317	42059	37853	34413	13519	13052	12618	12211
0-80	47916	42592	38333	34848	13690	13218	12778	12366
0-81	48515	43124	38812	35284	13861	13383	12937	12520
0-82	49114	43656	39291	35719	14032	13548	13097	12675
0-83	49713	44188	39770	36155	14203	13713	13257	12829
0-84	50312	44721	40249	36590	14374	13879	13417	12984
0-85	50912	45254	40728	37026	14545	14045	13577	13139
0-86	51511	45786	41207	37461	14717	14210	13736	13294
0-87	52110	46318	41687	37897	14888	14375	13896	13448
0-88	52709	46850	42166	38333	15059	14541	14056	13602
0-89	52307	47383	42645	38769	15230	14706	14216	13757
0-90	53905	47916	43124	39204	15402	14871	14375	13911
0-91	54504	48448	43603	39640	15573	15036	14535	14065
0-92	55103	48980	44082	40075	15744	15201	14694	14220
0-93	55702	49512	44562	40511	15915	15367	14854	14375
0-94	56301	50045	45041	40946	16086	15532	15014	14529
0-95	56900	50578	45520	41382	16257	15698	15174	14684
0-96	57499	51110	45999	41817	16429	15863	15333	14839
0-97	58098	51642	46478	42253	16600	16028	15493	14993
0-98	58697	52174	46957	42689	16771	16193	15653	15148
0-99	59296	52707	47436	43125	16941	16358	15812	15303
1-00	59895	53240	47916	43560	17113	16523	15972	15457

STORAGE, OUTFLOW AND INFLOW—LAKE OF THE WOODS  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date		1908				1909					
		Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.
			Foot depth	Rate c.f.s.				Foot depth	Rate c.f.s.		
Jan. 1-10	1061.82	-0.10	-4792	18252	13460	1059.75	-0.05	-2396	10116	7720	
11-20	61.73	-0.09	-4312	18029	13717	59.70	-0.05	-2396	10273	7877	
21-31	61.63	-0.10	-4356	18088	13732	59.63	-0.07	-3049	10060	7011	
Feb. 1-10	61.54	-0.09	-4312	17819	13507	59.52	-0.11	-5271	10173	4902	
11-20	61.44	-0.10	-4792	17846	13054	59.43	-0.09	-4312	10096	5784	
21-28	61.35	-0.09	-4791	17799	13008	59.32	-0.11	-6589	9850	3261	
Mar. 1-10	61.21	-0.14	-6708	17819	11111	59.20	-0.12	-5750	10006	4256	
11-20	61.04	-0.17	-8146	18252	10106	59.14	-0.06	-2875	9964	7089	
21-31	60.90	-0.14	-6098	18127	12029	59.09	-0.05	-2178	9783	7605	
April 1-10	60.89	-0.01	-479	18252	17773	59.06	-0.03	-1437	9880	8443	
11-20	60.90	0.01	479	18099	18578	58.94	-0.12	-5750	9670	3920	
21-30	60.97	0.07	3354	18406	21760	58.75	-0.10	-9104	9880	776	
May 1-10	61.09	0.12	5750	18758	24508	58.92	0.17	8146	9690	17836	
11-20	61.22	0.13	6229	20407	26096	59.35	0.43	20604	10026	30630	
21-31	61.33	0.11	4791	23365	28156	59.45	0.10	4356	10295	14651	
June 1-10	61.39	0.06	2875	25746	28621	59.43	-0.02	-958	10768	9810	
11-20	61.44	0.05	2396	26130	28526	59.52	0.09	4312	10620	14932	
21-30	61.40	-0.04	-1917	26066	24149	59.72	0.20	9583	10795	20378	
July 1-10	61.30	-0.10	-4792	25970	21178	59.80	0.08	3833	10797	14630	
11-20	61.15	-0.15	-7187	25186	17999	59.85	0.05	2396	10624	13020	
21-31	60.98	-0.17	-7404	24901	17497	59.90	0.05	2178	10813	12991	
Aug. 1-10	60.80	-0.18	-8625	24422	15797	59.95	0.05	2396	10642	13038	
11-20	60.61	-0.19	-9104	24008	14904	60.00	0.05	2396	10806	13202	
21-31	60.58	-0.03	-1307	22918	21611	60.00	0	0	10770	10770	
Sept. 1-10	60.60	0.02	958	20090	21048	60.00	0	0	10968	10968	
11-20	60.53	-0.07	-3354	17250	13896	60.00	0	0	10705	10705	
21-30	60.40	-0.13	-6229	17161	10932	60.00	0	0	10842	10842	
Oct. 1-10	60.26	-0.14	-6708	16864	10156	60.06	0.06	2875	10524	13399	
11-20	60.13	-0.13	-6229	15041	8812	60.10	0.04	1917	10693	12610	
21-31	60.00	-0.13	-5662	13391	7729	60.12	0.02	871	10475	11346	
Nov. 1-10	59.90	-0.10	-4792	12911	8119	60.15	0.03	1437	10678	12115	
11-20	59.86	-0.04	-1917	12105	10188	60.19	0.04	1917	10678	12595	
21-30	59.85	-0.01	-479	10394	9915	60.21	0.02	958	10476	11434	
Dec. 1-10	59.83	-0.02	-958	10475	9517	60.30	0.09	4312	10678	14990	
11-20	59.80	-0.03	-1437	10214	8777	60.43	0.13	6229	10476	16705	
21-31	59.80	0	0	10307	10307	60.56	0.13	5662	10696	16358	
Date		1910				1911					
Jan. 1-10	1060.61	0.05	2396	10587	12983	1057.79	-0.07	-3354	8206	4852	
11-20	60.67	0.06	2875	10783	13658	57.73	-0.06	-2875	8333	5458	
21-31	60.70	0.03	1307	10630	11937	57.64	-0.09	-3921	8164	4243	
Feb. 1-10	60.70	0	0	10872	10872	57.56	-0.08	-3833	8282	4449	
11-20	60.72	0.02	958	10684	11642	57.48	-0.08	-3833	8056	4223	
21-28	60.75	0.03	1796	10825	12621	57.40	-0.08	-4791	8208	3417	
Mar. 1-10	60.78	0.03	1437	10939	12376	57.32	-0.08	-3833	8175	3434	
11-20	60.85	0.07	3354	11388	14742	57.23	-0.09	-4312	7938	3626	
21-31	61.13	0.28	12197	12239	24436	57.13	-0.10	-4356	8143	3787	
April 1-10	61.32	0.19	9104	22525	31629	57.05	-0.08	-3833	7860	4027	
11-20	61.49	0.17	8146	23883	32029	57.08	0.03	1437	8204	9641	
21-30	61.54	0.05	2396	25640	28036	57.14	0.06	2875	8076	10951	
May 1-10	61.43	-0.11	-5271	26632	21361	57.18	0.04	1917	8317	10234	
11-20	61.20	-0.23	-11021	26482	15461	57.24	0.06	2875	8317	11192	
21-31	60.99	-0.21	-9148	25730	16582	57.30	0.06	2613	8135	10748	
June 1-10	60.79	-0.20	-9583	24962	15379	57.37	0.07	3354	8323	11677	
11-20	60.63	-0.16	-7667	20932	13265	57.42	0.05	2396	8186	10582	
21-30	60.42	-0.21	-10062	20087	10025	57.43	0.01	479	8403	8882	
July 1-10	60.16	-0.26	-12458	18733	6275	57.33	-0.10	-4792	8224	3432	
11-20	59.93	-0.23	-11021	13336	2315	57.17	-0.16	-7667	8422	755	
21-31	59.69	-0.24	-10454	11448	994	57.00	-0.17	-7404	8260	856	
Aug. 1-10	59.50	-0.19	-9104	10794	1690	56.95	-0.05	-2396	8449	6053	
11-20	59.30	-0.20	-9583	10479	896	56.92	-0.03	-1437	8206	6769	
21-31	59.08	-0.22	-9583	10119	536	56.86	-0.06	-2613	8035	5422	
Sept. 1-10	58.94	-0.14	-6708	10092	3384	56.85	-0.01	-479	7217	6738	
11-20	58.80	-0.14	-6708	9787	3079	56.84	-0.01	-479	7216	6737	
21-30	58.67	-0.13	-6229	10024	3795	56.87	0.03	1437	6894	8331	
Oct. 1-10	58.52	-0.15	-7187	9816	2629	56.88	0.01	479	6033	6512	
11-20	58.39	-0.13	-6229	9804	3575	56.91	0.03	1437	5907	7344	
21-31	58.27	-0.12	-5272	8952	3725	56.92	0.01	436	5379	5815	
Nov. 1-10	58.19	-0.08	-3833	8616	4783	56.91	-0.01	-479	5438	4959	
11-20	58.13	-0.06	-2875	8332	5457	56.90	-0.01	-479	5107	4628	
21-30	58.07	-0.06	-2875	8496	5621	56.92	0.02	958	5294	6252	
Dec. 1-10	58.00	-0.07	-3354	8488	5134	56.95	0.03	1437	5050	6487	
11-20	57.93	-0.07	-3354	8220	4866	56.97	0.02	958	5285	6243	
21-31	57.86	-0.07	-3049	8427	5378	57.03	0.06	2613	5093	7706	

Lake levels refer to elevations on 1st, 11th and 21st of each month.

RAINY LAKE INVESTIGATION

STORAGE, OUTFLOW AND INFLOW—LAKE OF THE WOODS—Continued  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	1912					1913				
	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.
		Foot depth	Rate c.f.s.				Foot depth	Rate c.f.s.		
Jan. 1-10	i057-08	0-05	2396	5300	7696	1060-50	-0-07	-3354	10130	6776
11-20	57-13	0-05	2396	5281	7677	60-46	-0-04	-1917	9915	7998
21-31	57-19	0-06	2613	5055	7668	60-41	-0-05	-2178	10150	7972
Feb. 1-10	57-22	0-03	1437	5278	6715	60-40	-0-01	-479	9959	9480
11-20	57-25	0-03	1437	5185	6622	60-37	-0-03	-1437	9815	6778
21-28	57-26	0-01	532	5503	6035	60-38	0-01	599	6989	7588
Mar. 1-10	57-30	0-04	1917	5377	7294	60-40	0-02	958	6798	7756
11-20	57-32	0-02	958	5643	6601	60-43	0-03	1437	7014	8451
21-31	57-37	0-05	2178	5484	7662	60-48	0-05	2178	6626	8804
Apr. 1-10	57-38	0-01	479	5732	6211	60-60	0-12	5750	6457	12207
11-20	57-50	0-12	5750	5807	11601	60-86	0-26	12458	6583	19041
21-30	57-79	0-29	13896	5807	19703	61-06	0-20	9583	12762	22345
May 1-10	58-09	0-30	14375	6282	20657	61-13	0-07	3354	15353	18707
11-20	58-40	0-31	14854	6248	21102	61-14	0-01	479	17421	17900
21-31	58-64	0-24	10454	6078	16532	61-09	-0-05	-2178	19220	17042
June 1-10	58-77	0-13	6229	5498	11727	61-02	-0-07	-3354	19678	16324
11-20	58-82	0-05	2396	5394	7790	60-93	-0-09	-4312	15603	15604
21-30	58-86	0-04	1917	5208	7125	60-80	-0-13	-6229	19261	13032
July 1-10	58-98	0-12	5750	4997	10747	60-86	0-06	2875	17708	20583
11-20	59-12	0-14	6708	5082	11790	61-00	0-14	6708	12889	19597
21-31	59-30	0-18	7840	5101	12941	60-99	-0-01	-436	14647	14211
Aug. 1-10	59-46	0-16	7667	5393	13060	60-88	-0-11	-5271	15282	10011
11-20	59-57	0-11	5271	5473	10744	60-80	-0-08	-3833	15241	11408
21-31	59-66	0-09	3921	5770	9691	60-66	-0-14	-6098	14376	8278
Sept. 1-10	59-80	0-14	6708	5807	12515	60-40	-0-26	-12458	14108	1650
11-20	60-10	0-30	14375	5991	20366	60-15	-0-25	-11979	14108	2129
21-30	60-47	0-37	17729	6108	23837	60-07	-0-08	-3833	10023	6190
Oct. 1-10	60-69	0-22	10542	7915	18457	60-13	0-06	2875	8178	11053
11-20	60-78	0-09	4312	9700	14012	60-17	0-04	1917	7774	9691
21-31	60-82	0-04	1742	10241	11983	60-14	-0-03	-1307	8025	6718
Nov. 1-10	60-80	-0-02	-958	9615	8657	60-15	0-01	479	7812	8291
11-20	60-78	-0-02	-958	9523	8565	60-14	-0-01	479	8008	7529
21-30	60-72	-0-06	-2875	10134	7259	60-12	-0-02	-958	7829	6871
Dec. 1-10	60-65	-0-07	-3354	10008	6654	60-12	0	0	7972	7972
11-20	60-62	-0-03	-1437	10219	8782	60-11	-0-01	-479	7956	7477
21-31	60-57	-0-05	-2178	10000	7822	60-09	-0-02	-871	7557	6686
Date	1914					1915				
Jan. 1-10	1060-09	0	0	7940	7940	1060-80	0	0	9410	9410
11-20	60-09	0	0	7724	7724	60-80	0	0	9934	9934
21-31	60-09	0	0	7725	7725	60-80	0	0	9860	9860
Feb. 1-10	60-09	0	0	7662	7662	60-80	0	0	10010	10010
11-20	60-09	0	0	7977	7977	60-80	0	0	10027	10027
21-28	60-08	-0-01	-599	9221	8622	60-78	-0-02	-1198	9848	8650
Mar. 1-10	60-02	-0-06	-2875	9847	6972	60-76	-0-02	-958	9899	8941
11-20	59-98	-0-04	-1917	10241	8324	60-73	-0-03	-1437	9379	7942
21-31	59-93	-0-05	-2178	9985	7807	60-70	-0-03	-1307	9237	7930
Apr. 1-10	59-93	0	0	9977	9977	60-73	0-03	1437	10923	12360
11-20	60-03	0-10	4792	9694	14486	60-81	0-08	3833	15832	19665
21-30	60-27	0-24	11500	9985	21485	60-89	0-08	3833	15942	19775
May 1-10	60-57	0-30	14375	10481	24856	61-02	0-13	6229	15782	22011
11-20	60-78	0-21	10062	11243	21305	61-11	0-09	4312	17180	21492
21-31	60-97	0-19	8276	14991	23267	61-10	-0-01	-436	19696	19260
June 1-10	61-27	0-30	14375	17361	31736	61-07	-0-03	-1437	18853	17416
11-20	61-38	0-11	5271	18397	23668	61-32	0-25	11979	18991	30970
21-30	61-21	-0-17	-8146	19387	11241	61-73	0-41	19646	20397	40043
July 1-10	61-20	-0-01	-479	19689	19210	61-81	0-08	3833	23913	27746
11-20	61-20	0	0	20385	20385	61-62	-0-19	-9104	24480	15376
21-31	61-06	-0-14	-6098	20378	14280	61-36	-0-26	-11325	24897	13572
Aug. 1-10	60-75	-0-31	-14854	19393	4539	61-06	-0-30	-14375	24750	10375
11-20	60-50	-0-25	-11979	18716	6737	60-83	-0-23	-11021	22727	11706
21-31	60-35	-0-15	-6533	16068	9535	60-62	-0-21	-9148	13217	4069
Sept. 1-10	60-31	-0-04	-1917	13016	11099	60-48	-0-14	-6708	12150	5442
11-20	60-51	0-20	9583	12840	22423	60-38	-0-10	-4792	11885	7093
21-30	60-46	-0-05	-2396	13066	10670	60-31	-0-07	-3354	11931	8577
Oct. 1-10	60-51	0-05	2396	12852	15248	60-28	-0-03	-1437	9810	8373
11-20	60-65	0-14	6708	11179	17887	60-24	-0-04	-1917	9831	7914
21-31	60-72	0-07	3049	9745	12794	60-20	-0-04	-1742	9696	7954
Nov. 1-10	60-73	0-01	479	9402	9881	60-20	0-00	0	9837	9837
11-20	60-70	-0-03	-1437	9742	8305	60-22	0-02	958	9862	10820
21-30	60-78	0-08	3833	9614	13447	60-23	0-01	479	9770	10249
Dec. 1-10	60-80	0-02	958	9796	10754	60-24	0-01	479	9533	10012
11-20	60-80	0	0	9550	9550	60-26	0-02	958	9735	10693
21-31	60-80	0	0	9574	9574	60-28	0-02	871	9690	10561

Lake levels refer to elevations on 1st, 11th and 21st of each month.

STORAGE, OUTFLOW AND INFLOW—LAKE OF THE WOODS—Continued  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	1916					1917				
	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.
		Foot depth	Rate c.f.s.				Foot depth	Rate c.f.s.		
Jan. 1-10	1060-35	0-07	3350	9800	13150	1060-10	-0-05	-2400	14510	12110
11-20	60-40	0-05	2400	9480	11880	60-05	-0-05	-2400	14050	11650
21-31	60-50	0-10	4360	9490	13850	59-95	-0-10	-4360	16490	12130
Feb. 1-10	60-50	0	0	10130	10130	59-80	-0-15	-7190	18910	11720
11-20	60-40	-0-10	-4790	15260	10470	59-75	-0-05	-2400	19920	16620
21-28	60-30	-0-10	-5320	15550	10230	59-65	-0-10	-5090	19500	13510
Mar. 1-10	60-25	-0-05	-2400	15470	13070	59-50	-0-15	-7190	19230	12040
11-20	60-25	0	0	15110	15110	59-30	-0-20	-9580	22010	12430
21-31	60-20	-0-05	-2180	14500	12320	59-10	-0-20	-8710	22500	13790
Apr. 1-10	60-20	0	0	14860	14860	58-95	-0-15	-7190	21340	14150
11-20	61-10	0-90	43120	15790	58910	59-02	0-07	3350	21520	24870
21-30	61-85	0-75	35940	23770	59710	59-19	0-17	8150	19170	27320
May 1-10	62-30	0-45	21560	28840	50400	59-35	0-16	7670	15210	22880
11-20	62-80	0-50	23960	31180	55140	59-45	0-10	4790	11800	16590
21-31	63-30	0-50	21780	35480	57260	59-45	0	0	11580	11580
June 1-10	63-65	0-35	16770	37690	54460	59-43	-0-02	-960	11010	10050
11-20	63-85	0-20	9580	38960	48540	59-43	0	0	8280	8280
21-30	64-05	0-20	9580	41320	50900	59-50	0-07	3350	6550	9900
July 1-10	64-05	0	0	41740	41740	59-70	0-20	9580	6010	15590
11-20	64-05	0	0	42170	42170	59-80	0-10	4790	6490	11280
21-31	63-60	-0-45	-19600	40840	21240	59-83	0-03	1310	6620	7930
Aug. 1-10	63-10	-0-50	-23960	38880	14920	59-83	0	0	6530	6530
11-20	62-75	-0-35	-16770	36160	19390	59-85	0-02	960	6470	7430
21-31	62-25	-0-50	-21780	34750	12970	59-85	0	0	6730	6730
Sept. 1-10	62-00	-0-25	-11980	30960	18980	59-83	-0-02	-960	6730	5770
11-20	61-70	-0-30	-14380	28050	13670	59-76	-0-07	-3350	6820	3470
21-30	61-40	-0-30	-14380	29210	14830	59-70	-0-06	-2880	6710	3830
Oct. 1-10	61-05	-0-35	-16770	28920	12150	59-65	-0-05	-2400	7400	5000
11-20	60-80	-0-25	-11980	27320	15340	59-63	-0-02	-960	7260	6300
21-31	60-75	-0-05	-2180	20210	18030	59-62	-0-01	-440	7200	6760
Nov. 1-10	60-65	-0-10	-4790	17590	12800	59-61	-0-01	-480	7470	6990
11-20	60-45	-0-20	-9580	21520	11940	59-60	-0-01	-480	7310	6830
21-30	60-30	-0-15	-7190	21780	14590	59-60	0	0	7390	7390
Dec. 1-10	60-20	-0-10	-4790	20840	16050	59-59	-0-01	-480	7280	6800
11-20	60-15	-0-05	-2400	15840	13440	59-58	-0-01	-480	7240	6760
21-31	60-15	0	0	14540	14540	59-62	0-04	1740	6880	8620
Date										
1918										
Jan. 1-10	1059-62	0	0	7160	7160	1060-01	0-01	480	7460	7940
11-20	59-60	-0-02	-960	7180	6220	60-04	0-03	1440	6550	7990
21-31	59-55	-0-05	-2180	7420	5240	60-06	0-02	870	6340	7210
Feb. 1-10	59-53	-0-02	-960	7140	6180	60-09	0-03	1440	6370	7810
11-20	59-48	-0-05	-2400	7270	4870	60-11	0-02	960	6450	7410
21-28	59-43	-0-05	-3000	7890	4890	60-18	0-07	4190	6480	10670
Mar. 1-10	59-31	-0-12	-5750	10730	4980	60-19	0-01	480	9260	9740
11-20	59-19	-0-12	-5750	10770	5020	60-08	-0-11	-5270	15250	9980
21-31	59-15	-0-04	-1740	11790	10050	59-98	-0-10	-4360	17320	12960
Apr. 1-10	59-15	0	0	9700	9700	59-94	-0-04	-1920	19110	17190
11-20	59-20	0-05	2400	6710	9110	59-95	0-01	480	19450	19930
21-30	59-27	0-07	3350	6800	10150	59-99	0-04	1920	15680	17600
May 1-10	59-40	0-13	6230	6520	12750	60-05	0-06	2880	13410	16290
11-20	59-55	0-15	7190	6730	13920	60-06	0-01	480	10700	11180
21-31	59-75	0-20	8710	7370	16080	60-09	0-03	1310	10390	11700
June 1-10	59-88	0-13	6230	7120	13350	60-26	0-17	8150	10350	18500
11-20	59-94	0-06	2880	7260	10140	60-46	0-20	9580	10600	20180
21-30	59-95	0-01	480	6920	7400	60-80	0-34	16290	12970	29260
July 1-10	59-92	-0-03	-1440	6540	5100	61-87	1-07	51270	27310	78580
11-20	59-94	0-02	960	6440	7400	61-66	-0-21	-10060	30950	20890
21-31	60-00	0-06	2880	5880	8760	61-35	-0-31	-13500	30750	17250
Aug. 1-10	60-00	0	0	6180	6180	61-02	-0-33	-15810	29040	13230
11-20	60-01	0-01	480	5870	6350	60-83	-0-19	-9100	28240	9140
21-31	60-00	-0-01	-440	6160	5720	60-58	-0-25	-10890	25730	14840
Sept. 1-10	59-95	-0-05	-2400	6360	3960	60-38	-0-20	-9580	23360	13780
11-20	59-90	-0-05	-2400	7170	4770	60-33	-0-05	-2400	17360	15160
21-30	59-81	-0-09	-4310	7420	3110	60-17	-0-16	-7670	17060	8390
Oct. 1-10	59-70	-0-11	-5270	7600	2930	59-97	-0-20	-9580	19830	10250
11-20	59-75	0-05	2400	7420	9820	59-90	-0-07	-3350	16590	13230
21-31	59-80	0-05	2180	7850	10030	59-86	-0-04	-1740	14670	12930
Nov. 1-10	59-85	0-05	2400	7160	9560	59-81	-0-05	-2400	14270	11870
11-20	59-80	0-05	2400	7600	10000	59-87	0-06	2880	11830	14710
21-30	59-94	0-04	1920	7790	9710	59-89	0-02	960	9880	10840
Dec. 1-10	59-96	0-02	960	7570	8530	59-87	-0-02	-960	10260	9300
11-20	60-00	0-04	1920	7690	9610	59-86	-0-01	-480	10290	9810
21-31	60-00	0	0	7490	7490	59-85	-0-01	-440	9730	9290

Lake levels refer to elevations on 1st, 11th and 21st of each month.

RAINY LAKE INVESTIGATION

STORAGE, OUTFLOW AND INFLOW—LAKE OF THE WOODS—Continued  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	1920					1921				
	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.
		Foot depth	Rate c.f.s.				Foot depth	Rate c.f.s.		
Jan. 1-10	1059-85	0	0	9600	9600	59-36	0-02	960	7610	8570
11-20	59-85	0	0	9700	9700	59-37	0-01	870	8460	8940
21-31	59-85	0	0	11090	11090	59-39	0-02	480	8240	9110
Feb. 1-10	59-79	-0-06	-2880	11730	8850	59-39	0	0	7920	7920
11-20	59-73	-0-06	-2880	12100	9220	59-35	-0-04	-1920	7410	5490
21-29	59-70	-0-03	-1600	11380	9780	59-32	-0-03	-1800	7770	5970
Mar. 1-10	59-65	-0-05	-2400	13390	10990	59-32	0	0	8140	8140
11-20	59-50	-0-15	-7190	16900	9710	59-36	0-04	1920	7960	9880
21-31	59-57	0-07	3050	17210	20260	59-42	0-06	2610	8770	11380
April 1-10	59-55	-0-02	-960	17770	16810	59-75	0-33	15810	16700	32510
11-20	59-65	0-10	4790	17550	22340	59-88	0-13	6230	21780	28010
21-30	59-83	0-18	8630	19650	28280	59-87	-0-01	-480	22920	22440
May 1-10	59-80	-0-03	-1440	22870	21430	59-75	-0-12	-5750	22840	17090
11-20	59-65	-0-15	-7190	22910	15720	59-67	-0-08	-3830	22940	19110
21-31	59-88	0-23	10020	22480	32500	59-62	-0-05	-2180	19830	17650
June 1-10	60-12	0-24	11500	21270	32770	59-65	0-03	1440	14740	16180
11-20	60-15	0-03	1440	21190	22630	59-62	-0-03	-1440	15390	13950
21-30	60-08	-0-07	-3350	21820	18470	59-56	-0-06	-2880	11570	8690
July 1-10	60-08	0	0	21290	21290	59-54	-0-02	-960	9870	8910
11-20	59-97	-0-11	-5270	20360	15090	59-51	-0-03	-1440	10210	8770
21-31	59-81	-0-16	-6970	16690	9720	59-49	-0-02	-870	10380	9510
Aug. 1-10	59-75	-0-06	-2880	13960	11080	59-43	-0-06	-2880	9070	6190
11-20	59-67	-0-08	-3830	13130	9300	59-37	-0-06	-2880	7530	4650
21-31	59-60	-0-07	-3050	11200	8150	59-31	-0-06	-2610	7980	5370
Sept. 1-10	59-55	-0-05	-2400	10620	8220	59-27	-0-04	-1920	8560	6640
11-20	59-48	-0-07	-3350	11080	7730	59-25	-0-02	-960	8430	7470
21-30	59-40	-0-08	-3830	11170	7340	59-20	-0-05	-2400	9140	6740
Oct. 1-10	59-33	-0-07	-3350	10380	7030	59-15	-0-05	-2400	8600	6200
11-20	59-29	-0-04	-1920	7470	5550	59-10	-0-05	-2400	8840	6440
21-31	59-26	-0-03	-1310	7370	6060	59-07	-0-03	-1310	8890	7580
Nov. 1-10	59-25	-0-01	-480	7190	6710	59-01	-0-06	-2880	8870	5990
11-20	59-26	0-01	480	6820	7300	58-95	-0-06	-2880	8760	5880
21-30	59-30	0-04	1920	6700	8620	58-96	0-01	480	8910	9390
Dec. 1-10	59-30	0	0	6200	6200	59-00	0-04	1920	8580	10500
11-20	59-31	0-01	480	6200	6680	59-00	0	0	7980	7930
21-31	59-34	0-03	1310	7170	8480	59-00	0	0	7570	7570
Date										
1922										
Jan. 1-10	1059-05	0-05	2400	7320	9720	1059-74	0-09	4310	6710	11020
11-20	59-06	0-01	480	7670	8150	59-80	0-06	2880	6670	9550
21-31	59-09	0-03	1310	7970	9280	59-86	0-06	2610	6820	9430
Feb. 1-10	59-10	0-01	480	8060	8540	59-90	0-04	1920	7050	8970
11-20	59-10	0	0	8020	8020	59-96	0-06	2880	6680	9560
21-28	59-10	0	0	8200	8200	60-06	0-04	2400	7270	9670
Mar. 1-10	59-15	0-05	2400	7920	10320	60-05	0-05	2400	8580	10980
11-20	59-21	0-06	2880	7760	10640	59-99	-0-06	-2880	12970	10090
21-31	59-32	0-11	4790	7920	12710	59-73	-0-26	-11330	20170	8840
April 1-10	59-45	0-13	6230	10320	16550	59-39	-0-34	-16290	24280	7990
11-20	59-85	0-40	19170	13210	32380	59-47	0-03	3830	22920	26750
21-30	60-01	0-16	7670	22690	30360	60-15	0-68	32580	18350	50730
May 1-10	60-35	0-34	16290	24080	40370	60-34	0-19	9100	18290	27390
11-20	60-55	0-20	9580	25350	34930	60-38	-0-04	-1920	13630	15550
21-31	60-47	-0-08	-3490	24310	20820	60-35	-0-03	-1310	13210	11900
June 1-10	60-25	-0-22	-10340	23280	12740	60-30	-0-05	-2400	10430	8030
11-20	60-05	-0-20	-9580	23130	13550	60-26	-0-04	-1920	11460	9540
21-30	59-84	-0-21	-10060	23480	13420	60-25	-0-01	-480	11420	10940
July 1-10	59-72	-0-12	-5750	20920	15170	60-36	0-11	5270	10700	15970
11-20	59-75	0-03	1440	14120	15560	60-37	0-01	480	10790	11270
21-31	59-83	0-08	3490	14040	17530	60-28	-0-09	-3920	11270	7350
Aug. 1-10	59-79	-0-04	-1920	14290	12370	60-08	-0-20	-9580	11680	2100
11-20	59-66	-0-13	-6230	13500	7270	59-94	-0-14	-6710	10720	4010
21-31	59-57	-0-09	-3920	13540	9620	59-80	-0-14	-6100	10390	4290
Sept. 1-10	59-54	-0-03	-1440	12620	11180	59-66	-0-14	-6710	9680	2970
11-20	59-46	-0-08	-3830	11410	7580	59-56	-0-10	-4790	10440	5650
21-30	59-36	-0-10	-4790	11370	6580	59-51	-0-05	-2400	10440	8040
Oct. 1-10	59-22	-0-14	-6710	9060	2350	59-39	-0-12	-5750	11110	5360
11-20	59-10	-0-12	-5750	9120	3370	59-24	-0-15	-7190	10230	3040
21-31	59-23	0-13	5660	7760	13420	59-02	-0-22	-9580	9810	230
Nov. 1-10	59-40	0-17	8150	8130	16280	58-89	-0-13	-6230	10020	3790
11-20	59-40	0	0	7740	7740	58-82	-0-07	-3350	9860	6510
21-30	59-44	0-04	1920	7770	9690	58-72	-0-10	-4790	10100	5310
Dec. 1-10	59-50	0-06	2880	7540	10420	58-65	-0-07	-3350	9770	6420
11-20	59-60	0-10	4790	7790	12580	58-58	-0-07	-3350	9390	6040
21-31	59-65	0-05	2180	7090	9270	58-50	-0-08	-3490	8750	5230

Lake levels refer to elevations on 1st, 11th and 21st of each month.



STORAGE, OUTFLOW AND INFLOW—LAKE OF THE WOODS—Concluded  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	1924					1925				
	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.	Lake level	Change in Storage		Out-flow rate c.f.s.	In-flow rate c.f.s.
		Foot depth	Rate c.f.s.				Foot depth	Rate c.f.s.		
Jan. 1-10	1058-45	-0-05	-2400	8610	6210	1055-39	-0-08	-3830	9270	5440
11-20	58-35	-0-10	-4790	9780	4990	55-31	-0-08	-3830	8710	4880
21-31	58-25	-0-10	-4360	10230	5870	55-21	-0-10	-4360	7220	2860
Feb. 1-10	58-15	-0-10	-4790	9860	5070	55-20	-0-01	-480	5520	5040
11-20	58-05	-0-10	-4790	9740	4950	55-20			5690	5690
21-29	57-95	-0-10	-5320	9580	4260	55-18	-0-02	-1200	5530	4330
Mar. 1-10	57-84	-0-11	-5270	9490	4220	55-20	0-02	960	5540	6500
11-20	57-73	-0-11	-5270	9960	4690	55-30	0-10	4790	5290	10080
21-31	57-61	-0-12	-5230	9700	4470	55-46	0-16	6790	5060	12030
April 1-10	57-57	-0-04	-1920	8940	7020	55-60	0-14	6710	5580	12290
11-20	57-71	0-14	6710	9580	16290	55-83	0-23	11020	5730	16750
21-30	57-80	0-09	4310	9650	13960	56-25	0-42	20120	5890	26010
May 1-10	57-85	0-05	2400	9720	12120	56-59	0-34	16290	5540	21830
11-20	57-90	0-05	2400	9000	11400	56-80	0-21	10060	4280	14340
21-31	57-86	-0-04	-1740	9680	7940	56-99	0-19	8280	4940	13220
June 1-10	57-78	-0-08	-3830	8670	4840	57-70	0-71	34020	5140	39160
11-20	57-70	-0-08	-3830	8930	5100	58-20	0-50	23960	5400	29360
21-30	57-61	-0-09	-4310	9560	5250	58-56	0-36	17250	5430	22680
July 1-10	57-50	-0-11	-5270	9660	4390	58-73	0-17	8150	4930	13130
11-20	57-38	-0-12	-5750	10100	4350	58-77	0-04	1920	4810	6730
21-31	57-34	-0-04	-1740	10210	8470	58-70	-0-07	-3050	4840	1790
Aug. 1-10	57-25	-0-09	-4310	9830	5520	58-61	-0-09	-4310	5250	940
11-20	57-07	-0-18	-8630	10310	1680	58-61			5600	5600
21-31	56-83	-0-24	-10450	9170	1280	58-62	0-01	440	5480	5920
Sept. 1-10	56-72	-0-11	-5270	8680	3410	58-64	0-02	960	5620	6550
11-20	56-60	-0-12	-5750	10690	4940	58-67	0-03	1440	6150	7590
21-30	56-49	-0-11	-5270	11030	5760	58-74	0-07	3350	6310	9660
Oct. 1-10	56-39	-0-10	-4790	10550	5760	58-85	0-11	5270	6560	11830
11-20	56-30	-0-09	-4310	10600	6290	58-94	0-09	4310	6470	10780
21-31	56-16	-0-14	-6100	10410	4310	59-00	0-06	2610	6620	9230
Nov. 1-10	55-95	-0-21	-10060	9920	140	59-10	0-10	4790	5560	10350
11-20	55-80	-0-15	-7190	9390	2700	59-15	0-05	2400	6580	8980
21-30	55-77	-0-03	-1440	9570	8130	59-20	0-05	2400	6100	8500
Dec. 1-10	55-68	-0-09	-4310	9640	5330	59-26	0-06	2880	6410	9290
11-20	55-57	-0-11	-5270	9770	4500	59-30	0-04	1920	6030	7950
21-31	55-47	-0-10	-4360	8970	4610	59-34	0-04	1740	5450	7190
Date	1926					1927				
Jan. 1-10	1059-38	0-04	1920	5820	7740	1060-90	-0-01	-480	16000	15520
11-20	59-40	0-02	960	6410	7870	60-85	-0-05	-2400	16400	14000
21-31	59-41	0-01	440	6020	6460	60-75	-0-10	-4360	16500	12140
Feb. 1-10	59-50	0-09	4310	5830	10140	60-66	-0-09	-4310	16700	12390
11-20	59-50			5690	5690	60-50	-0-16	-7670	20200	12530
21-28	59-51	0-01	600	4800	5400	60-34	-0-16	-9590	20800	11220
Mar. 1-10	59-52	0-01	480	5830	6310	60-23	-0-11	-5270	20600	15330
11-20	59-54	0-02	960	5990	6950	60-15	-0-08	-3530	20400	16570
21-31	59-65	0-11	4790	6130	10920	60-01	-0-14	-6100	21000	14900
April 1-10	59-71	0-06	2880	7390	10270	60-30	0-29	13900	25200	39100
11-20	59-76	0-05	2400	9810	12210	60-90	0-60	28750	27700	56450
21-30	59-81	0-05	2400	11030	13430	61-47	0-57	27310	35800	63110
May 1-10	59-84	0-03	1440	10500	11940	62-10	0-63	30190	43800	73990
11-20	59-88	0-04	1920	10620	12540	62-70	0-60	28750	47500	76250
21-31	59-96	0-08	3490	9950	13440	62-88	0-18	7840	49300	57140
June 1-10	60-10	0-14	6710	9620	16330	62-80	-0-08	-3830	50800	46970
11-20	60-43	0-33	15810	9550	25360	62-77	-0-03	-1440	50200	48760
21-30	60-73	0-30	14380	10060	24440	62-83	0-06	2880	50600	53480
July 1-10	60-77	0-04	1920	9590	11510	62-78	-0-05	-2400	50200	47800
11-20	60-69	-0-08	-3830	17800	13970	62-60	-0-18	-8630	50300	41670
21-31	60-52	-0-17	-7400	17340	9940	62-08	-0-52	-22650	48900	26250
Aug. 1-10	60-37	-0-15	-7190	12230	5040	61-58	-0-50	-23960	41500	17540
11-20	60-40	0-03	1440	8730	10170	61-20	-0-38	-18210	35600	17390
21-31	60-49	0-09	3920	8900	12820	60-83	-0-37	-16120	32800	16680
Sept. 1-10	60-54	0-05	2400	8600	11000	60-75	-0-08	-3830	22300	18470
11-20	60-59	0-05	2400	9240	11640	60-45	-0-30	-14380	14300	-80
21-30	60-68	0-09	4310	9880	14190	60-45			11400	11400
Oct. 1-10	60-98	0-30	14380	9580	23960	60-45			10400	10400
11-20	60-98			23500	23500	60-45			11600	11600
21-31	60-90	-0-08	-3490	29100	25610	60-45			11500	11500
Nov. 1-10	60-84	-0-06	-2880	28900	26020	60-45			11800	11800
11-20	60-80	-0-04	-1920	21900	19980	60-40	-0-05	-2400	11400	9000
21-30	60-86	0-06	2880	17500	20380	60-40			11100	11100
Dec. 1-10	60-90	0-04	1920	16600	18520	60-38	-0-02	-960	11200	10240
11-20	60-95	0-05	2400	16100	18500	60-38			10700	10700
21-31	60-91	-0-04	-1740	15700	13960	60-40	0-02	870	8830	9700

Lake levels refer to elevations on 1st, 11th and 21st of each month.

SUMMARY OF LAKE LEVELS, OUTFLOW AND INFLOW—LAKE OF THE WOODS  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Mean lake level for month	Change in level		Equivalent storage in feet	Actual controlled outflow, average c.f.s.	Actual inflow, average c.f.s.	Inflow	
		Rise, feet	Fall, feet				Sec.-feet per square mile	Run-off depth in inches
1909								
Jan.....	1059.72		-0.17	- 2628	10147	7519	0.28	0.32
Feb.....	59.48		-0.31	- 5205	10053	4748	0.18	0.19
Mar.....	59.18		-0.23	- 3555	9913	6358	0.23	0.27
April.....	58.97		-0.34	- 5430	9810	4380	0.16	0.18
May.....	59.12	0.70		10820	10013	20833	0.78	0.90
June.....	59.51	0.27		4312	10728	15040	0.56	0.63
July.....	59.82	0.18		2782	10747	13529	0.50	0.58
Aug.....	59.97	0.10		1546	10740	12286	0.46	0.53
Sept.....	60.00	0.00		0	10838	10838	0.40	0.45
Oct.....	60.07	0.12		1855	10561	12416	0.47	0.54
Nov.....	60.17	0.09		1437	10611	12048	0.45	0.50
Dec.....	60.37	0.35		5410	10619	16029	0.60	0.69
Annual.....	59.70				10400	11398	0.42	5.78
1910								
Jan.....	1060.64	0.14		2164	10665	12829	0.48	0.55
Feb.....	60.72	0.05		856	10791	11647	0.43	0.45
Mar.....	60.86	0.38		5874	11545	17419	0.65	0.75
April.....	61.38	0.41		6549	24016	30565	1.14	1.27
May.....	61.30		-0.55	- 8501	26264	17763	0.66	0.76
June.....	60.71		-0.57	- 9104	21994	12890	0.48	0.54
July.....	60.05		-0.73	-11283	14407	3124	0.11	0.13
Aug.....	59.40		-0.61	- 9429	10453	1024	0.03	0.04
Sept.....	58.87		-0.41	- 6548	9967	3419	0.13	0.14
Oct.....	58.46		-0.40	- 6182	9505	3323	0.12	0.14
Nov.....	58.16		-0.20	- 3194	8481	5287	0.20	0.22
Dec.....	57.97		-0.21	- 3246	8380	5134	0.19	0.22
Annual.....	59.88				13873	10329	0.39	5.07
1911								
Jan.....	1057.76		-0.22	- 3401	8232	4831	0.18	0.21
Feb.....	57.52		-0.24	- 4107	8180	4073	0.15	0.16
Mar.....	57.27		-0.27	- 4173	8087	3914	0.15	0.17
April.....	57.09	0.01		159	8047	8206	0.30	0.34
May.....	57.21	0.16		2473	8252	10725	0.40	0.46
June.....	57.39	0.13		2076	8304	10380	0.39	0.43
July.....	57.24		-0.43	- 6647	8301	1654	0.06	0.07
Aug.....	56.93		-0.14	- 2164	8224	6060	0.23	0.26
Sept.....	56.85	0.01		160	7109	7269	0.27	0.30
Oct.....	56.90	0.05		773	3760	6533	0.24	0.28
Nov.....	56.91	0.00		0	5280	5280	0.20	0.22
Dec.....	56.97	0.11		1700	5141	6841	0.25	0.29
Annual.....	57.17				7406	6316	0.23	3.19
1912								
Jan.....	1057.11	0.16		2473	5207	7680	0.29	0.33
Feb.....	57.23	0.07		1156	5316	6472	0.24	0.26
Mar.....	57.31	0.11		1700	5501	7201	0.27	0.31
April.....	57.49	0.42		6708	5797	12505	0.47	0.52
May.....	58.24	0.85		13138	6199	19337	0.72	0.83
June.....	58.78	0.22		3514	5367	8881	0.33	0.37
July.....	59.06	0.44		6801	5061	11862	0.44	0.51
Aug.....	59.50	0.36		5564	5553	11117	0.42	0.48
Sept.....	59.99	0.81		12937	5969	18906	0.71	0.79
Oct.....	60.71	0.35		5410	9316	14726	0.55	0.63
Nov.....	60.78		-0.10	- 1597	9757	8160	0.30	0.34
Dec.....	60.64		-0.15	- 2318	10073	7755	0.29	0.33
Annual.....	58.90				6599	11233	0.42	5.70
1913								
Jan.....	1060.48		-0.16	- 2473	10068	7595	0.29	0.33
Feb.....	60.39		-0.03	- 513	8487	7974	0.30	0.31
Mar.....	60.42	0.10		1545	6807	8352	0.31	0.36
April.....	60.74	0.58		9264	8600	17864	0.66	0.74
May.....	61.12	0.03		464	17392	17856	0.67	0.77
June.....	60.97		-0.29	- 4631	19618	14987	0.56	0.62
July.....	60.92	0.19		2937	15067	18004	0.68	0.78
Aug.....	60.84		-0.33	-5100	14947	9847	0.36	0.42
Sept.....	60.31		-0.59	- 9423	12746	3323	0.13	0.14
Oct.....	60.14	0.07		1082	7993	9075	0.34	0.39
Nov.....	60.14		-0.02	- 319	7883	7564	0.29	0.32
Dec.....	60.11		-0.03	- 464	7820	7356	0.28	0.32
Annual.....	60.55				11468	10338	0.41	5.50

SUMMARY OF LAKE LEVELS, OUTFLOW AND INFLOW—LAKE OF THE WOODS—Continued  
RECORDS OF BY THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Mean lake level for month	Change in level		Equivalent storage in feet	Actual controlled outflow, average c.f.s.	Actual inflow, average c.f.s.	Inflow	
		Rise, feet	Fall, feet				Sec.-feet per square mile	Run-off depth in inches
1914								
Jan.....	1060-09		-0-00	0	7794	7794	0-30	0-34
Feb.....	60-09		-0-01	- 171	8220	8049	0-30	0-31
Mar.....	60-00		-0-15	- 2319	10023	7704	0-29	0-33
April.....	60-02	0-34		5431	9885	15316	0-57	0-64
May.....	60-66	0-70		10820	12327	23147	0-87	1-00
June.....	61-25	0-24		3833	18382	22215	0-83	0-93
July.....	61-18		-0-15	- 2318	20158	17840	0-67	0-77
Aug.....	60-65		-0-71	-10974	17995	7021	0-26	0-30
Sept.....	60-41	0-11		1757	12974	14731	0-55	0-61
Oct.....	60-58	0-26		4019	11210	15229	0-57	0-66
Nov.....	60-73	0-06		958	9586	10544	0-39	0-44
Dec.....	60-80	0-02		309	9638	9947	0-37	0-43
Annual.....	60-54				12379	1311	0-50	6-76
1915								
Jan.....	1060-80		-0-00	0	9739	9739	0-36	0-42
Feb.....	60-80		-0-02	- 342	9970	9628	0-36	0-37
Mar.....	60-74		-0-08	- 1237	9496	8260	0-31	0-36
April.....	60-78	0-19		3035	14232	17267	0-65	0-72
May.....	61-04	0-21		3245	17622	20867	0-78	0-90
June.....	61-40	0-63		10062	19414	29476	1-10	1-23
July.....	61-66		-0-37	- 5719	24445	18726	0-70	0-81
Aug.....	60-96		-0-74	-11438	20005	8567	0-32	0-37
Sept.....	60-44		-0-31	- 4952	11989	7037	0-26	0-29
Oct.....	60-26		-0-11	- 1700	9776	8076	0-30	0-35
Nov.....	60-21	0-03		479	9823	10302	0-37	0-43
Dec.....	60-25	0-05		772	9654	10426	0-39	0-45
Annual.....	60-78				13879	13196	0-49	6-70
1916								
Jan.....	1060-34	0-22		3400	9590	12990	0-49	0-56
Feb.....	60-44		-0-20	- 3310	13580	10270	0-38	0-41
Mar.....	60-26		-0-10	- 1550	15010	13460	0-50	0-58
April.....	60-74	1-65		26350	18140	44490	1-66	1-86
May.....	62-57	1-45		22410	31950	54360	2-03	2-34
June.....	63-73	0-75		11980	39330	51310	1-92	2-14
July.....	63-99		-0-45	- 6950	41560	34600	1-29	1-49
Aug.....	63-23		-1-35	-20870	36540	15670	0-59	0-68
Sept.....	61-85		-0-85	-13580	29410	15830	0-59	0-66
Oct.....	60-97		-0-65	-10060	25310	15250	0-57	0-66
Nov.....	60-55		-0-45	- 7190	20300	13110	0-49	0-55
Dec.....	60-20		-0-15	- 2320	16990	14670	0-55	0-63
Annual.....	61-59				24810	24670	0-92	12-56
1917								
Jan.....	1060-09		-0-20	- 3090	15060	11970	0-45	0-52
Feb.....	59-79		-0-30	- 5130	19120	13990	0-52	0-54
Mar.....	59-40		-0-55	- 8500	21290	12790	0-49	0-56
April.....	59-03	0-09		1440	20680	22120	0-83	0-93
May.....	59-37	0-26		4020	12820	16840	0-63	0-73
June.....	59-44	0-05		800	8610	9410	0-35	0-39
July.....	59-72	0-33		5100	6380	11480	0-43	0-50
Aug.....	59-83	0-02		310	6580	6890	0-26	0-30
Sept.....	59-79		-0-15	- 2400	6750	4350	0-16	0-18
Oct.....	59-65		-0-08	- 1240	7280	6040	0-23	0-26
Nov.....	59-60		-0-02	- 320	7390	7070	0-26	0-30
Dec.....	59-60	0-02		310	7120	7430	0-28	0-32
Annual.....	59-61				11590	10870	0-41	5-53
1918								
Jan.....	1059-61		-0-07	- 1080	7260	6180	0-23	0-27
Feb.....	59-51		-0-12	- 2050	7400	5350	0-10	0-10
Mar.....	59-26		-0-28	- 4330	11120	6790	0-25	0-29
April.....	59-18	0-12		1920	7740	9660	0-36	0-40
May.....	59-48	0-48		7420	6890	14310	0-54	0-62
June.....	59-89	0-20		3190	7100	10290	0-39	0-43
July.....	59-95	0-05		770	6270	7040	0-26	0-30
Aug.....	60-01	0		0	6070	6070	0-23	0-26
Sept.....	59-92		-0-19	- 3030	6980	3940	0-15	0-17
Oct.....	59-74		-0-01	- 150	7630	7480	0-28	0-32
Nov.....	59-87	0-14		2240	7520	9760	0-37	0-41
Dec.....	59-98	0-06		930	7580	8510	0-32	0-37
Annual.....	59-70				7460	7970	0-29	3-94

RAINY LAKE INVESTIGATION

SUMMARY OF LAKE LEVELS, OUTFLOW AND INFLOW—LAKE OF THE WOODS—Continued  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD.

Date	Mean lake level for month	Change in level		Equivalent storage in feet	Actual controlled outflow, average c.f.s.	Actual inflow, average c.f.s.	Inflow	
		Rise, feet	Fall, feet				Sec.-feet per square mile	Run-off depth in inches
1919								
Jan.....	1060.03	0.06		930	6770	7700	0.29	0.33
Feb.....	60.10	0.12		2050	6430	8480	0.32	0.33
Mar.....	60.12		-0.20	- 3096	14050	10960	0.41	0.47
April.....	59.95	0.01		160	18080	18240	0.68	0.76
May.....	60.04	0.10		1550	11470	13020	0.49	0.56
June.....	60.41	0.71		11340	11310	22650	0.85	0.95
July.....	61.69	0.55		8500	29710	38210	1.43	1.65
Aug.....	60.94		-0.77	-11900	27610	15710	0.59	0.68
Sept.....	60.37		-0.41	- 6550	19320	12770	0.48	0.53
Oct.....	59.96		-0.31	- 4790	16950	12160	0.46	0.53
Nov.....	59.85	0.03		480	11990	12470	0.47	0.52
Dec.....	59.87		-0.04	- 620	10080	9460	0.35	0.41
Annual.....	60.28				15310	15150	0.57	7.72
1920								
Jan.....	1059.85	0	0	0	10160	10160	0.38	0.44
Feb.....	59.77		-0.15	- 2480	11750	9270	0.35	0.37
Mar.....	59.60		-0.13	- 2010	15880	13870	0.52	0.60
April.....	59.62	0.26		4150	18320	22470	0.84	0.94
May.....	59.75	0.05		770	22750	23520	0.88	1.01
June.....	60.07	0.20		3190	21430	24620	0.92	1.03
July.....	60.00		-0.27	- 4170	19360	15190	0.57	0.66
Aug.....	59.70		-0.21	- 3250	12710	9460	0.35	0.41
Sept.....	59.51		-0.20	- 3190	10960	7770	0.29	0.32
Oct.....	59.31		-0.14	- 2160	8370	6210	0.23	0.27
Nov.....	59.26	0.04		640	6900	7540	0.28	0.32
Dec.....	59.31	0.04		620	6540	7160	0.27	0.31
Annual.....	59.65				13760	13100	0.49	6.66
1921								
Jan.....	1059.36	0.05		770	8110	8880	0.33	0.38
Feb.....	59.37		-0.07	- 1200	7690	6490	0.24	0.25
Mar.....	59.34	0.10		1550	8310	9860	0.36	0.42
April.....	59.75	0.45		7190	20470	27660	1.03	1.15
May.....	59.72		-0.25	- 3860	21800	17940	0.67	0.77
June.....	59.62		-0.06	- 960	13900	12940	0.48	0.54
July.....	59.52		-0.07	- 1080	10160	9080	0.34	0.39
Aug.....	59.40		-0.18	- 2780	8190	5410	0.20	0.23
Sept.....	59.26		-0.11	- 1760	8710	6950	0.26	0.29
Oct.....	59.13		-0.13	- 2010	8780	6770	0.21	0.24
Nov.....	58.96		-0.11	- 1760	8840	7080	0.26	0.30
Dec.....	58.99	0.04		620	8000	8620	0.32	0.37
Annual.....	59.37				11080	10640	0.39	5.33
1922								
Jan.....	1059.05	0.09		1390	7660	9050	0.34	0.39
Feb.....	59.10	0.01		170	8090	8260	0.31	0.32
Mar.....	59.19	0.22		3400	7870	11270	0.42	0.49
April.....	59.63	0.69		11020	15410	26430	0.99	1.10
May.....	60.37	0.46		7110	24570	31680	1.18	1.37
June.....	60.18		-0.63	-10060	23300	13240	0.50	0.55
July.....	59.76		-0.01	- 160	16280	16120	0.60	0.70
Aug.....	59.71		-0.26	- 4020	13770	9750	0.36	0.42
Sept.....	59.49		-0.21	- 3350	11800	8450	0.32	0.35
Oct.....	59.20		-0.13	- 2010	8620	6610	0.25	0.29
Nov.....	59.38	0.21		3350	7880	11230	0.42	0.47
Dec.....	59.55	0.21		3250	7460	10710	0.40	0.46
Annual.....	59.55				12730	13570	0.51	6.91
1923								
Jan.....	1059.76	0.21		3250	6740	9990	0.37	0.43
Feb.....	59.92	0.14		2400	6980	9380	0.35	0.37
Mar.....	59.98		-0.27	- 4170	14110	9940	0.37	0.43
April.....	59.54	0.42		6710	21780	28490	1.07	1.19
May.....	60.33	0.20		3090	14980	18070	0.68	0.78
June.....	60.28		-0.10	- 1600	11100	9500	0.36	0.40
July.....	60.34	0.03		460	10930	11390	0.43	0.49
Aug.....	60.02		-0.48	- 7420	10910	3490	0.13	0.15
Sept.....	59.63		-0.29	- 4630	10180	5550	0.21	0.23
Oct.....	59.30		-0.49	- 7570	10360	2790	0.10	0.12
Nov.....	58.86		-0.30	- 4790	9990	5200	0.19	0.22
Dec.....	58.61		-0.22	- 3400	9280	5880	0.22	0.25
Annual.....	59.71				11450	9980	0.37	5.06

SUMMARY OF LAKE LEVELS, OUTFLOW AND INFLOW—LAKE OF THE WOODS—Concluded  
RECORDS OF THE CANADIAN LAKE OF THE WOODS CONTROL BOARD

Date	Mean lake level for month	Change in level		Equivalent storage in feet	Actual controlled outflow, average c.f.s.	Actual inflow, average c.f.s.	Inflow	
		Rise, feet	Fall, feet				Sec.-feet per square mile	Run-off depth in inches
1924								
Jan.	1058.40		-0.25	- 3860	9560	5700	0.21	0.25
Feb.	58.11		-0.30	- 4960	9730	4770	0.18	0.19
Mar.	57.79		-0.34	- 5260	9710	4450	0.17	0.19
April	57.66	0.19		3040	9390	12430	0.47	0.52
May	57.86	0.06		930	9470	10400	0.39	0.45
June	57.74		-0.25	- 3990	9050	5060	0.19	0.21
July	57.45		-0.27	- 4170	10000	5830	0.22	0.25
Aug.	57.14		-0.51	- 7880	9750	1870	0.07	0.08
Sept.	56.66		-0.34	- 5430	10130	4700	0.18	0.20
Oct.	56.35		-0.33	- 5100	10520	5420	0.20	0.23
Nov.	55.91		-0.39	- 6230	9790	3560	0.13	0.15
Dec.	55.62		-0.30	- 4640	9440	4800	0.18	0.21
Annual	57.22				9710	5750	0.22	2.93
1925								
J. n.	1055.34		-0.26	- 4020	8370	4350	0.16	0.19
Feb.	55.20		-0.03	- 510	5580	5070	0.19	0.20
Mar.	55.27	0.28		4330	4290	9620	0.36	0.42
April	55.74	0.79		12620	5730	18350	0.69	0.77
May	56.66	0.74		11440	4920	16360	0.61	0.71
June	57.87	1.57		25080	5320	30400	1.14	1.27
July	58.72	0.14		2160	4870	7030	0.26	0.30
Aug.	58.62		-0.08	- 1240	5450	4210	0.16	0.18
Sept.	58.65	0.12		1920	6030	7950	0.30	0.33
Oct.	58.89	0.26		4020	6550	10570	0.40	0.46
Nov.	59.11	0.20		3190	6080	9270	0.35	0.39
Dec.	59.28	0.14		2160	5950	8110	0.30	0.35
Annual	57.44				5850	10940	0.41	5.57
1926								
Jan.	1059.38	0.07		1080	6080	7160	0.27	0.31
Feb.	59.48	0.10		1710	5490	7200	0.27	0.28
Mar.	59.55	0.14		2160	5900	8150	0.30	0.35
April	59.73	0.16		2560	9410	11970	0.45	0.50
May	59.87	0.15		2320	10340	12660	0.47	0.55
June	60.27	0.77		12300	9740	22040	0.82	0.92
July	60.71		-0.21	- 3250	15000	11750	0.44	0.51
Aug.	60.43		-0.03	- 460	9920	9460	0.35	0.41
Sept.	60.56	0.19		3040	9240	12280	0.46	0.51
Oct.	60.92	0.22		3400	21000	24400	0.91	1.05
Nov.	60.84		-0.04	- 640	22800	22160	0.83	0.92
Dec.	60.92	0.05		770	16100	16870	0.63	0.73
Annual	60.22				11760	13840	0.52	7.04
1927								
Jan.	1060.86		-0.16	- 2470	16300	13830	0.52	0.60
Feb.	60.59		-0.41	- 7020	19100	12080	0.45	0.47
Mar.	60.19		-0.33	- 5100	20700	15600	0.58	0.67
April	60.63	1.46		23320	29500	52820	1.98	2.21
May	62.33	1.41		21790	46900	68690	2.57	2.96
June	62.80		-0.05	- 800	50500	49700	1.86	2.07
July	62.64		-0.75	-11590	49800	38210	1.43	1.65
Aug.	61.40		-1.25	-19320	36500	17180	0.64	0.74
Sept.	60.61		-0.38	- 6070	16000	9930	0.37	0.41
Oct.	60.45				11200	11200	0.42	0.48
Nov.	60.43		-0.05	- 800	11400	10600	0.40	0.44
Dec.	60.39				10200	10200	0.38	0.44
Annual	61.11				26510	25840	0.97	13.14

LAKE OF THE WOODS IN A STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LEVELS, INFLOW AND OUTFLOW—ASSUMING RAINY AND NAMAKAN LAKES IN A STATE OF NATURE

10-DAY MEANS

Date	1909					1910				
	Computed natural levels		Com- puted natural inflow, average c.f.s.	Com- puted natural outflow, average c.f.s.	Computed natural levels		Com- puted natural inflow, average c.f.s.	Com- puted natural outflow, average c.f.s.		
	Lake level 1st of period	Change in level			Lake level 1st of period	Change in level				
	Rise, feet	Fall, feet			Rise, feet	Fall, feet				
Jan. 1-10	1056.26		0.14	7720	14290	1056.29		0.04	12510	14240
11-20	56.14		0.12	7880	13930	56.27		0.02	13150	14150
21-31	55.99		0.15	7010	13550	56.21		0.06	11170	14040
Feb. 1-10	55.82		0.17	4900	13130	56.12		0.09	9730	13850
11-20	55.07		0.15	5780	12740	56.05		0.07	10120	13630
21-28	55.52		0.15	3260	12320	56.00		0.05	10650	13470
Mar. 1-10	55.36		0.16	4220	11950	55.93		0.07	10010	13320
11-20	55.26		0.10	6660	11630	55.91		0.02	12230	13180
21-31	55.14		0.12	6300	11370	56.11	0.20		22020	13420
April 1-10	55.07		0.07	7880	11180	56.43	0.32		29640	14130
11-20	54.95		0.12	5260	10910	56.77	0.34		31210	15060
21-30	54.79		0.16	2950	10690	57.01	0.24		27250	15920
May 1-10	55.00	0.21		20740	10660	57.09	0.08		20410	16430
11-20	55.49	0.49		35140	11490	57.08		0.01	15890	16520
21-31	55.69	0.20		20820	12320	57.10	0.02		17590	16560
June 1-10	55.73	0.04		14360	12640	57.08		0.02	15830	16560
11-20	55.84	0.11		17850	12820	56.99		0.09	11940	16370
21-30	56.02	0.18		21950	13210	56.85		0.14	9390	16010
July 1-10	56.05	0.03		15110	13500	56.66		0.19	6230	15500
11-20	56.06	0.01		14140	13550	56.43		0.23	3990	14890
21-31	56.08	0.02		14240	13580	56.17		0.26	2700	14210
Aug. 1-10	56.10	0.02		14530	13630	55.94		0.23	2540	13530
11-20	56.08		0.02	12580	13630	55.71		0.23	1930	12920
21-31	56.07		0.01	13180	13580	55.45		0.26	860	12300
Sept. 1-10	56.07			13790	13580	55.28		0.17	3480	11750
11-20	56.03		0.04	11710	13530	55.10		0.18	2870	11350
21-30	56.01		0.02	12660	13450	54.94		0.16	3210	10940
Oct. 1-10	56.02	0.01		14120	13450	54.76		0.18	1930	10540
11-20	56.02			13420	13450	54.59		0.17	2040	10150
21-31	56.03	0.01		13890	13450	54.50		0.19	1640	9750
Nov. 1-10	56.06	0.03		14900	13500	54.26		0.14	2590	9390
11-20	56.15	0.09		17880	13660	54.12		0.14	2490	9100
21-30	56.20	0.05		16280	13880	54.02		0.10	4200	8840
Dec. 1-10	56.24	0.04		16050	13990	53.92		0.10	3880	8630
11-20	56.29	0.05		16270	14100	53.83		0.09	3960	8420
21-31	56.33	0.04		15950	14240	53.74		0.09	4350	8230

  

Date	1911					1912				
	Lake level 1st of period	Change in level				Lake level 1st of period	Change in level			
	Rise, feet	Fall, feet				Rise, feet	Fall, feet			
Jan. 1-10	1053.67		0.07	4700	8090	1053.18		0.01	6770	7170
11-20	53.61		0.06	5130	7980	53.16		0.02	6260	7130
21-31	53.53		0.08	4540	7850	53.15		0.01	6570	7100
Feb. 1-10	53.46		0.07	4490	7730	53.12		0.03	5610	7080
11-20	53.39		0.07	4250	7600	53.09		0.03	5800	7030
21-28	53.32		0.07	3490	7470	53.05		0.04	4860	6970
Mar. 1-10	53.25		0.07	4210	7350	53.03		0.02	6040	6920
11-20	53.17		0.08	3410	7200	53.00		0.03	5370	6870
21-31	53.09		0.08	3520	7070	52.98		0.02	6120	6830
April 1-10	53.02		0.07	3830	6950	52.94		0.04	4720	6790
11-20	53.08	0.06		9720	6830	53.01	0.07		9970	6810
21-30	53.17	0.09		11470	7070	53.24	0.23		18420	7070
May 1-10	53.23	0.06		8990	7190	53.48	0.24		19210	7470
11-20	53.29	0.06		10110	7300	53.75	0.27		20850	7940
21-31	53.35	0.06		9870	7400	53.96	0.21		17470	8380
June 1-10	53.42	0.07		10770	7530	54.08	0.12		14560	8720
11-20	53.48	0.06		10700	7640	54.14	0.06		11910	8930
21-30	53.54	0.06		10720	7740	54.21	0.07		12270	9050
July 1-10	53.53		0.01	7160	7780	54.35	0.14		16080	9280
11-20	53.45		0.08	4130	7710	54.46	0.11		15060	9770
21-31	53.36		0.09	3520	7560	54.58	0.12		15150	9790
Aug. 1-10	53.36			7400	7470	54.67	0.09		14280	10040
11-20	53.38	0.02		8250	7490	54.73	0.06		13130	10200
21-31	53.36		0.02	6550	7490	54.78	0.05		12700	10330
Sept. 1-10	53.36			7430	7470	54.86	0.08		14570	10470
11-20	53.36			7590	7470	55.09	0.23		21850	10840
21-30	53.40	0.04		9270	7510	55.38	0.29		25370	11470
Oct. 1-10	53.40			7550	7550	55.54	0.16		19910	12000
11-20	53.41	0.01		8090	7560	55.60	0.06		15150	12270
21-31	53.38		0.03	6420	7550	55.61	0.01		12840	12380
Nov. 1-10	53.34		0.04	5440	7470	55.54		0.07	9100	12300
11-20	53.29		0.05	4950	7400	55.47		0.07	8660	12100
21-30	53.25		0.04	5640	7310	55.37		0.10	6930	11910
Dec. 1-10	53.22		0.03	5850	7260	55.26		0.11	6330	11630
11-20	53.19		0.03	5560	7190	55.19		0.07	7940	11420
21-31	53.19			7440	7170	55.11		0.08	7610	11250

Lake levels refer to elevations on 1st, 11th and 21st of each month.

Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

LAKE OF THE WOODS IN A STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LEVELS, INFLOW AND OUTFLOW—ASSUMING RAINY AND NAMAKAN LAKES IN A STATE OF NATURE

—Continued  
10-DAY MEANS

Date	1913						1914					
	Computed natural levels			Com- puted natural inflow, average c.f.s.	Com- puted natural outflow, average c.f.s.	Computed natural level			Com- puted natural inflow, average c.f.s.	Com- puted natural outflow average c.f.s.		
	Lake level 1st of period	Change in level				Lake level 1st of period	Rise, feet	Fall, feet				
Jan. 1-10	1055.00		0.11	5540	11010	1054.86		0.08	6880	10660		
11-20	54.91		0.09	6730	10800	54.77		0.09	6280	10470		
21-31	54.81		0.10	6140	10560	54.67		0.10	5950	10240		
Feb. 1-10	54.76		0.05	7710	10380	54.58		0.09	5840	10040		
11-20	54.64		0.12	4640	10200	54.50		0.08	5880	9840		
21-28	54.56		0.08	5310	9970	54.44		0.06	6370	9690		
Mar. 1-10	54.47		0.09	5540	9790	54.34		0.10	4840	9510		
11-20	54.39		0.08	5970	9600	54.27		0.07	5870	9350		
21-31	54.32		0.07	6340	9430	54.18		0.09	5310	9160		
April 1-10	54.33	0.01		9820	9370	54.14		0.04	7240	9030		
11-20	54.48	0.15		16620	9540	54.20	0.06		11970	9050		
21-30	54.70	0.22		20310	9950	54.41	0.21		19160	9330		
May 1-10	54.84	0.14		17180	10360	54.69	0.28		23420	9860		
11-20	54.98	0.14		17520	10680	54.91	0.22		21050	10430		
21-31	55.14	0.16		18180	11030	55.21	0.30		24170	11030		
June 1-10	55.32	0.18		19900	11440	55.66	0.45		33560	11950		
11-20	55.50	0.18		20300	11880	55.96	0.30		27230	12900		
21-30	55.60	0.10		17220	12230	56.02	0.06		16090	13370		
July 1-10	55.80	0.20		22380	12610	56.24	0.22		24260	13740		
11-20	55.92	0.12		18460	13030	56.44	0.20		23910	14320		
21-31	55.94	0.02		14230	13210	56.48	0.04		16220	14660		
Aug. 1-10	55.94			13210	13240	56.34		0.14	7820	14520		
11-20	55.96	0.02		14340	13260	56.23		0.11	9050	14180		
21-31	55.93		0.03	12090	13260	56.17		0.06	11460	13930		
Sept. 1-10	55.77		0.16	5400	13000	56.14		0.03	12570	13820		
11-20	55.61		0.16	4730	12580	56.33	0.19		23020	14010		
21-30	55.52		0.09	7990	12280	56.26		0.07	10820	14180		
Oct. 1-10	55.53	0.01		12620	12150	56.28	0.02		15020	14130		
11-20	55.51		0.02	11080	12150	56.36	0.08		17950	14270		
21-31	55.42		0.09	8130	12030	56.29		0.07	11420	14290		
Nov. 1-10	55.37		0.05	9420	11830	56.17		0.12	8410	14010		
11-20	55.30		0.07	8280	11680	56.01		0.16	6040	13630		
21-30	55.20		0.10	6870	11490	55.96		0.05	11200	13370		
Dec. 1-10	55.13		0.07	7810	11270	55.85		0.11	7640	13130		
11-20	55.04		0.09	6670	11080	55.73		0.12	7080	12840		
21-31	54.94		0.10	6670	10870	55.64		0.09	8560	12560		
Date												
1915												
Jan. 1-10	1055.51		0.13	6190	12300	1055.82		0.01	12590	12950		
11-20	55.39		0.12	6360	11980	55.77		0.05	10630	12870		
21-31	55.28		0.11	6700	11680	55.78	0.01		13270	12820		
Feb. 1-10	55.20		0.08	7500	11470	55.70		0.08	9100	12710		
11-20	55.12		0.08	7300	11270	55.62		0.08	8780	12510		
21-28	55.03		0.09	5860	11080	55.54		0.08	8150	12300		
Mar. 1-10	54.93		0.10	6140	10840	55.50		0.04	10500	12150		
11-20	54.82		0.11	5350	10610	55.51	0.01		12660	12150		
21-31	54.70		0.12	4900	10330	55.45		0.06	9260	12050		
April 1-10	54.68		0.02	9010	10170	55.44		0.01	11730	11980		
11-20	54.81	0.13		16710	10310	56.37	0.93		57750	13150		
21-30	54.93	0.12		16430	10590	57.31	0.94		60580	15770		
May 1-10	55.10	0.17		18990	10910	57.91	0.60		47060	18340		
11-20	55.23	0.13		17690	11300	58.56	0.65		51720	20730		
21-31	55.36	0.13		17420	11610	59.21	0.65		51840	23600		
June 1-10	55.47	0.11		16920	11880	59.60	0.39		45020	26220		
11-20	55.85	0.38		30870	12510	59.86	0.26		40450	28010		
21-30	56.42	0.57		41260	13770	60.17	0.31		44590	29630		
July 1-10	56.78	0.36		32160	15080	60.33	0.16		38770	31070		
11-20	56.88	0.10		20350	15740	60.59	0.26		49440	32370		
21-31	56.95	0.07		18980	15980	60.52		0.07	30120	32990		
Aug. 1-10	56.94		0.01	15490	16080	60.39		0.13	25960	32310		
11-20	56.95	0.01		16740	16110	60.29		0.10	26790	31630		
21-31	56.80		0.15	9140	15860	60.04		0.25	19640	30520		
Sept. 1-10	56.69		0.11	10210	15470	59.95		0.09	25240	28570		
11-20	56.59		0.10	10450	15180	59.75		0.20	19300	28690		
21-30	56.50		0.09	10460	14890	59.56		0.19	18720	27620		
Oct. 1-10	56.40		0.10	9980	14630	59.33		0.23	15220	26430		
11-20	56.31		0.09	9840	14350	59.17		0.16	17770	25450		
21-31	56.20		0.11	9430	14100	59.06		0.11	20210	24790		
Nov. 1-10	56.14		0.06	10770	13850	58.86		0.20	14520	23990		
11-20	56.10		0.04	12020	13710	58.67		0.19	13900	23080		
21-30	56.05		0.05	11320	13610	58.55		0.12	16810	22360		
Dec. 1-10	55.97		0.08	9500	13420	58.45		0.10	17160	21870		
11-20	55.80		0.07	9820	13210	58.30		0.15	14220	21360		
21-31	55.83		0.07	9980	13030	58.18		0.12	15500	20770		

Lake levels refer to elevations on 1st, 11th and 21st of each month.

Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

RAINY LAKE INVESTIGATION

LAKE OF THE WOODS IN A STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LEVELS, INFLOW AND OUTFLOW—ASSUMING RAINY AND NAMAKAN LAKES IN A STATE OF NATURE  
—Continued  
10-DAY MEANS

Date	1917					1918				
	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Lake level 1st of period	Change in level				Lake level 1st of period	Change in level			
	Rise, feet	Fall, feet		Rise, feet	Fall, feet		Rise, feet	Fall, feet		
Jan. 1-10	1057.99		0.19	11060	20130	1054.34		0.05	6830	9450
11-20	57.79		0.20	9940	19390	54.29		0.05	6830	9350
21-31	57.59		0.20	9960	18640	54.23		0.06	6490	9240
Feb. 1-10	57.40		0.19	8820	17940	54.20		0.03	7640	9140
11-20	57.32		0.08	13780	17450	54.14		0.06	6160	9050
21-28	57.20		0.12	9940	17120	54.09		0.05	5680	8930
Mar. 1-10	57.02		0.18	8140	16620	54.02		0.07	5400	8800
11-20	56.86		0.16	8600	16080	53.95		0.07	5400	8670
21-31	56.73		0.13	9460	15620	53.98	0.03		9970	8630
April 1-10	56.61		0.12	9720	15260	54.00	0.02		9520	8670
11-20	56.70	0.09		19480	15210	54.00			8900	8700
21-30	56.85	0.15		22900	15590	54.03	0.03		10320	8740
May 1-10	56.91	0.06		18850	15890	54.12	0.09		12920	8840
11-20	56.85		0.06	13180	15890	54.24	0.12		14850	9070
21-31	56.09		0.16	8650	15560	54.43	0.19		17500	9390
June 1-10	56.53		0.16	7550	15090	54.55	0.12		15700	9730
11-20	56.38		0.15	7660	14660	54.62	0.07		13490	9950
21-30	56.23		0.15	7170	14240	54.65	0.03		11330	10040
July 1-10	56.24	0.01		14270	14010	54.65			10120	10090
11-20	56.14		0.10	9100	13900	54.68	0.03		11640	10130
21-31	55.97		0.17	6050	13530	54.72	0.04		11730	10200
Aug. 1-10	55.79		0.18	4690	13080	54.69		0.03	8540	10200
11-20	55.65		0.14	5740	12660	54.64		0.05	7760	10130
21-31	55.48		0.17	4780	12250	54.58		0.06	7410	9990
Sept. 1-10	55.33		0.15	4830	11880	54.49		0.09	5610	9840
11-20	55.14		0.19	2530	11470	54.39		0.10	4950	9620
21-30	54.99		0.15	3880	11060	54.26		0.13	3270	9390
Oct. 1-10	54.87		0.12	4790	10730	54.11		0.15	1910	9070
11-20	54.79		0.08	6770	10490	54.10		0.01	8310	8900
21-31	54.70		0.09	6530	10310	54.10			8730	8900
Nov. 1-10	54.64		0.06	7310	10130	54.11	0.01		9540	8930
11-20	54.59		0.05	7510	9990	54.13	0.02		10010	8950
21-30	54.52		0.07	6310	9860	54.15	0.02		9830	8990
Dec. 1-10	54.45		0.07	6450	9730	54.12		0.03	7640	8990
11-20	54.40		0.05	7080	9580	54.11		0.01	8560	8950
21-31	54.39		0.01	9160	9540	54.08		0.03	7380	8880
Date										
1919										
Jan. 1-10	1054.04		0.04	6910	8820	1056.20		0.10	9160	14070
11-20	53.99		0.05	6400	8740	56.10		0.10	8980	13800
21-31	53.91		0.08	5270	8590	56.01		0.09	9490	13530
Feb. 1-10	53.86		0.05	6170	8490	55.89		0.12	7480	13260
11-20	53.80		0.06	5690	8340	55.77		0.12	7000	12950
21-28	53.80			8390	8280	55.68		0.09	7920	12690
Mar. 1-10	53.79		0.01	7700	8250	55.60		0.08	8570	12450
11-20	53.79			8410	8250	55.48		0.12	6670	12200
21-31	53.87	0.08		11930	8340	55.61	0.13		17700	12200
April 1-10	54.04	0.17		16720	8590	55.63	0.02		13570	12400
11-20	54.26	0.22		19660	9010	55.78	0.15		19670	12610
21-30	54.42	0.16		17280	9410	56.05	0.27		25870	13160
May 1-10	54.56	0.14		16230	9730	56.20	0.15		20920	13740
11-20	54.72	0.16		17700	10060	56.24	0.04		15860	13990
21-31	54.78	0.06		13010	10310	56.70	0.46		34550	14690
June 1-10	55.01	0.23		21490	10630	57.11	0.41		35720	15980
11-20	55.25	0.24		22520	11200	57.33	0.22		27500	16990
21-30	55.67	0.42		31950	12000	57.37	0.04		19340	17420
July 1-10	57.05	1.38		80350	14380	57.42	0.05		20230	17590
11-20	57.16	0.11		22150	16620	57.42			17800	17660
21-31	57.25	0.09		20770	16950	57.30		0.12	12140	17450
Aug. 1-10	57.24		0.01	16560	17050	57.28		0.02	16080	17220
11-20	57.33	0.09		21720	17220	57.20		0.08	13320	17050
21-31	57.32		0.01	17000	17350	57.10		0.10	12400	16760
Sept. 1-10	57.31		0.01	16850	17320	57.01		0.09	11930	16430
11-20	57.29		0.02	16270	17250	56.91		0.10	11530	16140
21-30	57.14		0.15	9880	16990	56.80		0.11	10670	15830
Oct. 1-10	57.00		0.14	9760	16490	56.68		0.12	9660	15470
11-20	56.93		0.07	12940	16170	56.52		0.16	7250	15060
21-31	56.84		0.09	12190	15920	56.34		0.18	6550	14570
Nov. 1-10	56.75		0.09	11210	15620	56.17		0.17	5850	14070
11-20	56.72		0.03	14090	15470	56.01		0.16	6070	13630
21-30	56.62		0.10	10420	15260	55.90		0.11	7820	13260
Dec. 1-10	56.50		0.12	9270	14940	55.75		0.15	5890	12950
11-20	56.40		0.10	9620	14630	55.64		0.11	7220	12580
21-31	56.30		0.10	9970	14350	55.56		0.08	8790	12350

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.



LAKE OF THE WOODS IN A STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LEVELS, INFLOW AND OUTFLOW—ASSUMING RAINY AND NAMAKAN LAKES IN A STATE OF NATURE

—Continued

10-DAY MEANS

Date	1921				1922					
	Computed natural levels		Com- puted natural inflow, average c.f.s.	Com- puted natural outflow, average c.f.s.	Computed natural levels		Com- puted natural inflow, average c.f.s.	Com- puted natural outflow, average c.f.s.		
	Lake level 1st of period	Change in level			Lake level 1st of period	Change in level				
	Rise, feet	Fall, feet		Rise, feet	Fall, feet					
Jan. 1-10	1055-46		0-10	7540	12130	1054-58		0-06	7340	9980
11-20	55-36		0-10	7030	11880	54-51		0-07	6270	9840
21-31	55-25		0-11	7010	11630	54-44		0-07	6860	9710
Feb. 1-10	55-16		0-09	6970	11370	54-36		0-08	5490	9560
11-20	55-05		0-11	5780	11130	54-28		0-08	5560	9370
21-28	54-96		0-09	5750	10910	54-20		0-08	4460	9200
Mar. 1-10	54-84		0-12	4860	10660	54-14		0-06	6080	9050
11-20	54-77		0-07	7070	10450	54-10		0-04	7110	8950
21-31	54-71		0-06	7710	10290	54-10			9060	8910
April 1-10	55-09	0-38		28790	10660	54-21	0-11		14220	9010
11-20	55-36	0-27		24420	11440	54-62	0-41		29160	9560
21-30	55-50	0-14		18760	11930	54-97	0-35		27010	10400
May 1-10	55-60	0-10		17230	12230	55-52	0-55		37940	11490
11-20	55-74	0-14		19390	12530	55-98	0-46		34760	12740
21-31	55-89	0-15		19510	12900	56-17	0-19		21770	13550
June 1-10	56-00	0-11		18660	13240	56-19	0-02		14660	13880
11-20	56-11	0-11		18730	13530	56-25	0-06		17010	13990
21-30	56-11	0-11		13870	13690	56-31	0-06		17040	14150
July 1-10	56-10		0-01	13250	13690	56-43	0-12		20330	14410
11-20	56-06		0-04	11520	13610	56-52	0-09		18850	14690
21-31	56-04		0-02	12660	13530	56-66	0-14		20910	15030
Aug. 1-10	55-96		0-08	9660	13400	56-67	0-01		15500	15230
11-20	55-86		0-10	8380	13160	56-56		0-11	9700	15090
21-31	55-76		0-10	8730	12900	56-48		0-08	11220	14830
Sept. 1-10	55-68		0-08	8900	12660	56-44		0-04	12910	14660
11-20	55-58		0-10	7550	12430	56-31		0-13	8190	14410
21-30	55-48		0-10	7210	12180	56-15		0-16	6300	14010
Oct. 1-10	55-39		0-09	7430	11930	55-91		0-24	2010	13480
11-20	55-31		0-08	7770	11730	55-69		0-22	2530	12870
21-31	55-22		0-09	7710	11530	55-68		0-01	12050	12560
Nov. 1-10	55-10		0-12	5530	11270	55-71	0-03		14150	12610
11-20	54-96		0-14	4480	10960	55-57		0-14	5590	12450
21-30	54-90		0-06	7640	10730	55-47		0-10	7270	12150
Dec. 1-10	54-86		0-04	8530	10610	55-40		0-07	8340	11930
11-20	54-76		0-10	5740	10450	55-36		0-04	9990	11800
21-31	54-64		0-12	4860	10200	55-25		0-11	6910	11630
Date	1923				1924					
	Lake level 1st of period	Change in level			Lake level 1st of period	Change in level				
		Rise, feet	Fall, feet			Rise, feet	Fall, feet			
Jan. 1-10	1055-18		0-07	7960	11390	1053-96		0-09	4580	8720
11-20	55-08		0-10	6190	11200	53-87		0-09	4010	8510
21-31	54-96		0-12	5560	10940	53-79		0-08	4800	8340
Feb. 1-10	54-84		0-12	4780	10660	53-72		0-07	4780	8180
11-20	54-73		0-11	5350	10400	53-65		0-07	4460	8050
21-28	54-65		0-08	5130	10170	53-57		0-08	3890	7920
Mar. 1-10	54-57		0-08	6150	9990	53-48		0-09	3650	7780
11-20	54-49		0-08	5910	9820	53-40		0-08	3780	7620
21-31	54-40		0-09	5690	9620	53-31		0-09	3380	7470
April 1-10	54-32		0-08	5590	9450	53-27		0-04	5630	7350
11-20	54-63	0-31		24460	9690	53-42	0-15		14750	7460
21-30	55-42	0-79		49050	10960	53-52	0-10		12509	7670
May 1-10	55-75	0-33		28210	12320	53-57	0-05		10380	7820
11-20	55-81	0-06		15850	12820	53-62	0-05		10200	7890
21-31	55-81			13020	12900	53-60		0-02	7050	7920
June 1-10	55-75		0-06	10070	12820	53-53		0-07	4440	7830
11-20	55-73		0-02	11780	12710	53-46		0-07	4390	7730
21-30	55-74	0-01		12980	12690	53-39		0-07	4250	7580
July 1-10	55-87	0-13		19090	12870	53-33		0-06	4420	7470
11-20	55-58	0-01		13450	13050	53-27		0-06	4410	7370
21-31	55-79		0-09	9030	12970	53-30	0-03		8590	7330
Aug. 1-10	55-60		0-19	3650	12610	53-28		0-02	6320	7350
11-20	55-46		0-14	5600	12180	53-17		0-11	1970	7240
21-31	55-32		0-14	5760	11830	53-05		0-12	1710	7030
Sept. 1-10	55-18		0-14	4730	11490	53-00		0-05	4430	6880
11-20	55-08		0-10	6380	11200	52-98		0-02	5980	6830
21-30	55-03		0-05	8560	11010	52-98			6980	6820
Oct. 1-10	54-91		0-12	5320	10820	52-98			6960	6820
11-20	54-77		0-14	3610	10520	53-00	0-02		7800	6830
21-31	54-56		0-21	1060	10130	52-98		0-02	5850	6830
Nov. 1-10	54-44		0-12	4130	9750	52-88		0-10	1790	6740
11-20	54-38		0-06	6640	9560	52-83		0-05	4050	6610
21-30	54-29		0-09	5300	9410	52-90	0-07		9910	6630
Dec. 1-10	54-23		0-06	6260	9240	52-91	0-01		7130	6690
11-20	54-15		0-08	5370	9090	52-90		0-01	6340	6710
21-31	54-05		0-10	4510	8910	52-90			6560	6690

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
 Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

RAINY LAKE INVESTIGATION

LAKE OF THE WOODS IN A STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LEVELS, INFLOW AND OUTFLOW—ASSUMING RAINY AND NAMAKAN LAKES IN A STATE OF NATURE  
—Concluded

10-DAY MEANS

Date		1925					1926				
		Computed natural levels			Com- puted natural inflow, average c.f.s.	Com- puted natural outflow, average c.f.s.	Computed natural levels			Com- puted natural inflow, average c.f.s.	Com- puted natural outflow, average c.f.s.
		Lake level 1st of period	Change in level				Lake level 1st of period	Change in level			
	Rise, feet	Fall, feet		Rise, feet	Fall, feet		Rise, feet	Fall, feet			
Jan.	1-10	1052.91	0.01		7090	6690	1054.58		0.09	5860	10040
	11-20	52.90		0.01	6240	6710	54.49		0.09	5520	9840
	21-31	52.84		0.06	4190	6640	54.37		0.12	4570	9600
Feb.	1-10	52.83		0.01	6320	6590	54.33		0.04	7700	9430
	11-20	52.84	0.01		6830	6580	54.21		0.12	3380	9260
	21-28	52.82		0.02	5210	6580	54.12		0.09	3460	9030
Mar.	1-10	52.83	0.01		7050	6580	54.02		0.10	4160	8860
	11-20	52.91	0.08		10230	6640	53.93		0.09	4300	8630
	21-31	53.02	0.11		11380	6780	53.92		0.01	8010	8530
April	1-10	53.12	0.10		11690	6950	53.89		0.03	7280	8510
	11-20	53.32	0.20		16870	7220	53.92	0.03		9880	8490
	21-30	53.71	0.39		26350	7740	53.98	0.06		11490	8590
May	1-10	53.99	0.28		21950	8380	54.02	0.04		10500	8700
	11-20	54.13	0.14		15310	8820	54.07	0.05		11200	8800
	21-31	54.26	0.13		14720	9080	54.16	0.09		12910	8950
June	1-10	54.91	0.65		41030	9930	54.30	0.14		16020	9180
	11-20	55.34	0.43		31740	11180	54.64	0.34		25900	9680
	21-33	55.63	0.29		25920	12050	54.97	0.33		26270	10450
July	1-10	55.71	0.08		16330	12530	55.05	0.08		14890	10910
	11-20	55.66		0.05	10060	12560	55.17	0.12		17040	11140
	21-31	55.50		0.16	5440	12300	55.21	0.04		12920	11856
Aug.	1-10	55.35		0.15	4740	11930	55.16		0.05	9080	11350
	11-20	55.29		0.06	8880	11660	55.20	0.04		13420	11320
	21-31	55.23		0.06	9030	11510	55.29	0.09		15360	11470
Sept.	1-10	55.19		0.04	9610	11390	55.33	0.04		13530	11630
	11-20	55.15		0.04	9150	11300	55.37	0.04		13750	11730
	21-30	55.13		0.02	10490	11230	55.44	0.07		14980	11850
Oct.	1-10	55.15	0.02		12190	11230	55.70	0.26		24650	12280
	11-20	55.14		0.01	10990	11250	55.92	0.22		23500	12900
	21-31	55.09		0.05	9090	11180	56.12	0.20		22170	13450
Nov.	1-10	55.06		0.03	9730	11080	56.27	0.15		21310	13930
	11-20	55.00		0.06	8100	10960	56.36	0.09		18400	14240
	21-30	54.93		0.07	7500	10820	56.48	0.12		20250	14550
Dec.	1-10	54.87		0.06	7870	10660	56.57	0.09		19050	14820
	11-20	54.77		0.10	5830	10470	56.66	0.09		19200	15090
	21-31	54.67		0.10	5800	10240	56.66			15030	15230

  

Date		1927				
		Lake level 1st of period	Change in level			
			Rise, feet	Fall, feet		
Jan.	1-10	1056.87	0.01		15890	15260
	11-20	56.86		0.01	14600	15230
	21-31	56.61		0.05	12790	15150
Feb.	1-10	56.55		0.06	12330	15000
	11-20	56.49		0.06	12170	14830
	21-28	56.41		0.08	9940	14630
Mar.	1-10	56.34		0.07	11240	14430
	11-20	56.29		0.05	11770	14210
	21-31	56.25		0.04	12280	14130
April	1-10	56.71	0.46		36610	14170
	11-20	57.43	0.72		51030	16490
	21-30	58.14	0.71		53240	19010
May	1-10	58.93	0.79		60000	22050
	11-20	59.69	0.76		62110	25750
	21-31	60.07	0.38		45340	28860
June	1-10	60.22	0.15		37650	30460
	11-20	60.43	0.21		41410	31500
	21-30	60.74	0.31		47950	33120
July	1-10	60.95	0.21		44750	34770
	11-20	61.00	0.05		38260	35700
	21-31	60.83		0.17	27620	35230
Aug.	1-10	60.75		0.08	30840	34450
	11-20	60.64		0.11	28600	33870
	21-31	60.61		0.03	31980	33430
Sept.	1-10	60.55		0.06	30010	33120
	11-20	60.13		0.42	11410	31630
	21-30	59.93		0.20	20410	29750
Oct.	1-10	59.70		0.23	17690	28520
	11-20	59.47		0.23	16270	27240
	21-31	59.22		0.25	15150	25960
Nov.	1-10	58.98		0.24	13370	24690
	11-20	58.71		0.27	10500	23460
	21-30	58.47		0.24	10820	22270
Dec.	1-10	58.25		0.22	10790	21270
	11-20	58.02		0.23	9280	20330
	21-31	57.77		0.25	8670	19430

Lake levels refer to elevations on 1st, 11th and 21st of each month.  
Inflow represents net available run-off from entire watershed, evaporation from lake having been cared for by method of computation used.

LAKE OF THE WOODS IN A STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LEVELS, INFLOW AND OUTFLOW—ASSUMING RAINY AND NAMAKAN LAKES IN A STATE OF NATURE

MONTHLY MEANS

Date	1909					1910				
	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels			Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.
	Mean for month	Change in level				Mean for month	Change in level			
Rise, feet		Fall, feet	Rise, feet	Fall, feet						
Jan.....	1056-19		0-41	7520	13910	1056-27		0-12	12240	14140
Feb.....	55-75		0-47	4750	12760	56-10		0-21	10130	13660
Mar.....	55-31		0-38	5740	11640	55-97	0-11		14990	13310
April.....	54-97		0-35	5360	10890	56-59	0-90		29370	15040
May.....	55-26	0-90		25410	11520	57-07	0-09		17950	16510
June.....	55-81	0-33		18050	12890	57-01		0-25	12390	16310
July.....	56-06	0-06		14490	14540	56-54		0-68	4260	14850
Aug.....	56-08		0-01	13420	13610	55-81		0-72	1750	12900
Sept.....	56-05		0-06	12720	13520	55-19		0-51	3190	11350
Oct.....	56-02	0-02		13820	13450	54-70		0-54	1870	10170
Nov.....	56-11	0-17		16350	13680	54-20		0-38	3100	9110
Dec.....	56-26	0-13		16080	14110	53-87		0-28	4070	8420
Date										
1911										
Jan.....	1053-64		0-21	4780	7970	1053-17		0-04	6540	7130
Feb.....	53-43		0-21	4120	7610	53-11		0-10	5450	7030
Mar.....	53-21		0-23	3710	7200	53-01		0-07	5850	6870
April.....	53-08	0-08		8340	6980	53-02	0-26		11040	6890
May.....	53-25	0-18		9980	7300	53-63	0-72		19120	7950
June.....	53-45	0-19		10730	7640	54-10	0-25		12910	8900
July.....	53-47		0-18	4890	7680	54-43	0-37		15430	9620
Aug.....	53-36			7370	7480	54-70	0-20		13350	10200
Sept.....	53-37	0-04		8100	7480	55-02	0-60		20600	10930
Oct.....	53-40		0-02	7320	7550	55-55	0-23		15860	12220
Nov.....	53-31		0-13	5350	7390	55-50		0-24	8230	12100
Dec.....	53-22		0-06	6320	7210	55-22		0-26	7310	11430
Date										
1913										
Jan.....	1054-96		0-30	6130	10780	1054-81		0-27	6360	10450
Feb.....	54-70		0-25	5930	10200	54-56		0-23	6010	9870
Mar.....	54-43		0-24	5960	9600	54-32		0-26	5340	9330
April.....	54-44	0-38		15580	9620	54-21	0-23		12790	9140
May.....	54-92	0-44		17640	10700	54-81	0-80		22920	10460
June.....	55-40	0-46		19140	11840	55-75	0-81		25630	12740
July.....	55-83	0-34		18230	12960	56-32		0-46	21300	14270
Aug.....	55-95		0-01	13170	13250	56-34		0-31	9500	14200
Sept.....	55-70		0-41	6040	12620	56-23	0-09		15470	14000
Oct.....	55-50		0-10	10530	12100	56-31	0-03		14690	14230
Nov.....	55-32		0-22	8190	11670	56-15		0-33	8550	13670
Dec.....	55-07		0-26	7040	11070	55-82		0-32	7790	12830
Date										
1915										
Jan.....	1055-45		0-36	6430	11980	1055-80		0-05	12220	12880
Feb.....	55-17		0-25	6960	11290	55-66		0-24	8700	12510
Mar.....	54-87		0-33	5440	10580	55-51		0-09	10750	12130
April.....	54-77	0-23		14050	10360	56-09	1-86		43350	13630
May.....	55-16	0-43		18010	11280	58-29	1-90		50260	20980
June.....	55-74	1-06		29680	12720	59-72	0-96		43350	27950
July.....	56-79	0-53		23670	15610	60-43	0-35		37690	32170
Aug.....	56-92		0-15	13640	16010	60-31		0-48	23970	31460
Sept.....	56-64		0-30	10380	15180	59-84		0-48	21080	28630
Oct.....	56-35		0-30	9740	14350	59-27		0-50	17820	25330
Nov.....	56-12		0-15	11370	13720	58-82		0-51	15070	23140
Dec.....	55-93		0-22	9770	13210	58-37		0-37	15620	21320
Date										
1917										
Jan.....	1057-88		0-59	10310	19360	1054-31		0-16	6710	9340
Feb.....	57-38		0-39	10910	17530	54-17		0-14	6550	9050
Mar.....	56-94		0-47	8750	16070	54-00		0-11	7020	8700
April.....	56-70	0-12		17360	15350	54-00	0-05		9540	8700
May.....	56-74		0-16	13400	15770	54-20	0-40		15170	9110
June.....	56-46		0-46	7460	14660	54-58	0-22		13510	9910
July.....	56-15		0-26	9680	13800	54-68	0-07		11180	10140
Aug.....	55-70		0-49	5060	12650	54-66		0-14	7890	10100
Sept.....	55-24		0-49	3750	11470	54-44		0-32	4610	9620
Oct.....	54-83		0-29	6050	10500	54-13		0-16	6390	8960
Nov.....	54-61		0-18	7040	9990	54-13	0-05		9800	8960
Dec.....	54-43		0-13	7610	9610	54-12		0-07	7840	8940
Date										
1918										
Jan.....	1054-31		0-16	6710	9340	1054-31		0-16	6710	9340
Feb.....	54-17		0-14	6550	9050	54-17		0-14	6550	9050
Mar.....	54-00		0-11	7020	8700	54-00		0-11	7020	8700
April.....	54-00	0-05		9540	8700	54-00	0-05		9540	8700
May.....	54-20	0-40		15170	9110	54-20	0-40		15170	9110
June.....	54-58	0-22		13510	9910	54-58	0-22		13510	9910
July.....	54-68	0-07		11180	10140	54-68	0-07		11180	10140
Aug.....	54-66		0-14	7890	10100	54-66		0-14	7890	10100
Sept.....	54-44		0-32	4610	9620	54-44		0-32	4610	9620
Oct.....	54-13		0-16	6390	8960	54-13		0-16	6390	8960
Nov.....	54-13	0-05		9800	8960	54-13	0-05		9800	8960
Dec.....	54-12		0-07	7840	8940	54-12		0-07	7840	8940

LAKE OF THE WOODS IN A STATE OF NATURE—SUMMARY OF COMPUTED NATURAL LEVELS, INFLOW AND OUTFLOW—ASSUMING RAINY AND NAMAKAN LAKES IN A STATE OF NATURE  
—Concluded

MONTHLY MEANS

Date	1919				1920					
	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.		
	Mean for month	Change in level			Mean for month	Change in level				
Rise, feet		Fall, feet	Rise, feet	Fall, feet						
Jan.....	1054.01	.....	0.17	6160	8710	1056.15	.....	0.29	9220	13790
Feb.....	53.85	.....	0.11	6630	8380	55.84	.....	0.33	7450	12980
Mar.....	53.80	0.07	.....	9430	8280	55.57	.....	0.07	11200	12280
Apr.....	54.14	0.55	.....	17890	9000	55.74	0.44	.....	19700	12720
May.....	54.63	0.36	.....	15560	10040	56.28	0.65	.....	24120	14160
June.....	55.16	0.89	.....	25320	11280	57.16	0.67	.....	27520	16800
July.....	56.91	1.58	.....	40430	16010	57.40	.....	0.07	16580	17600
Aug.....	57.29	0.07	.....	18380	17210	57.22	.....	0.20	13880	16700
Sept.....	57.28	.....	0.18	14330	17190	56.92	.....	0.30	11380	16130
Oct.....	56.97	.....	0.30	11650	16180	56.59	.....	0.46	7780	15020
Nov.....	56.73	.....	0.22	11910	15450	56.10	.....	0.44	6580	13650
Dec.....	56.45	.....	0.32	9630	14630	55.70	.....	0.34	7350	12620
Date										
Date	1921				1922					
	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.		
	Mean for month	Change in level			Mean for month	Change in level				
Rise, feet		Fall, feet	Rise, feet	Fall, feet						
Jan.....	1055.41	.....	0.31	7150	11870	1054.54	.....	0.20	6830	9840
Feb.....	55.11	.....	0.29	6200	11150	54.33	.....	0.24	5220	9390
Mar.....	54.81	.....	0.25	6580	10460	54.13	.....	0.10	7470	8970
Apr.....	55.19	0.79	.....	23990	11340	54.46	0.87	.....	23460	9660
May.....	55.68	0.39	.....	18740	12560	55.70	1.20	.....	31170	12620
June.....	56.04	0.22	.....	17090	13490	56.23	0.14	.....	16240	14010
July.....	56.08	.....	0.07	12480	13610	56.48	0.35	.....	20060	14720
Aug.....	55.91	.....	0.28	8920	13150	56.59	.....	0.18	12110	15040
Sept.....	55.62	.....	0.28	7890	12420	56.36	.....	0.33	9130	14360
Oct.....	55.35	.....	0.26	7640	11720	55.83	.....	0.47	5740	12960
Nov.....	55.04	.....	0.32	5880	10990	55.62	.....	0.21	9000	12400
Dec.....	54.79	.....	0.26	6330	10410	55.37	.....	0.22	8370	11780
Date										
Date	1923				1924					
	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.		
	Mean for month	Change in level			Mean for month	Change in level				
Rise, feet		Fall, feet	Rise, feet	Fall, feet						
Jan.....	1055.12	.....	0.29	6540	11170	1053.92	.....	0.26	4470	8520
Feb.....	54.80	.....	0.31	5090	10430	53.68	.....	0.22	4390	8050
Mar.....	54.52	.....	0.25	5910	9800	53.44	.....	0.26	3590	7620
Apr.....	54.63	1.02	.....	26360	10030	53.37	0.21	.....	10960	7490
May.....	55.73	0.39	.....	18830	12690	53.58	0.08	.....	9140	7880
June.....	55.75	.....	0.07	11610	12740	53.49	.....	0.21	4360	7710
July.....	55.83	0.05	.....	13700	12960	53.32	.....	0.09	5900	7390
Aug.....	55.54	.....	0.47	5030	12190	53.21	.....	0.25	3280	7200
Sept.....	55.14	.....	0.29	6560	11230	52.99	.....	0.07	5800	6840
Oct.....	54.83	.....	0.47	3260	10480	52.99	.....	.....	6830	6830
Nov.....	54.41	.....	0.27	5360	9570	52.88	.....	0.08	5250	6660
Dec.....	54.18	.....	0.24	5350	9070	52.90	.....	.....	6670	6690
Date										
Date	1925				1926					
	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.		
	Mean for month	Change in level			Mean for month	Change in level				
Rise, feet		Fall, feet	Rise, feet	Fall, feet						
Jan.....	1052.89	.....	0.06	5790	6680	1054.53	.....	0.30	5290	9820
Feb.....	52.83	.....	0.02	6180	6580	54.27	.....	0.25	4950	9260
Mar.....	52.89	0.20	.....	9610	6670	53.99	.....	0.20	5570	8670
Apr.....	53.26	0.69	.....	18310	7300	53.92	0.06	.....	9550	8530
May.....	54.03	0.55	.....	17240	8770	54.06	0.18	.....	11580	8820
June.....	55.06	1.37	.....	32900	11050	54.51	0.81	.....	22730	9770
July.....	55.64	.....	0.13	10440	12460	55.10	0.24	.....	14880	11140
Aug.....	55.33	.....	0.27	7600	11690	55.20	0.08	.....	12710	11380
Sept.....	55.18	.....	0.10	9750	11310	55.36	0.15	.....	14090	11740
Oct.....	55.14	.....	0.04	10700	11220	55.81	0.68	.....	23400	12890
Nov.....	55.03	.....	0.16	8440	10950	56.31	0.36	.....	19990	14240
Dec.....	54.81	.....	0.26	6480	10450	56.60	0.18	.....	17670	15060
Date										
Date	1927									
	Computed natural levels		Computed natural inflow, average c.f.s.	Computed natural outflow, average c.f.s.						
	Mean for month	Change in level								
Rise, feet		Fall, feet								
Jan.....	1056.65	.....	0.05	14370	15210					
Feb.....	56.52	.....	0.20	11590	14830					
Mar.....	56.31	.....	0.16	11780	14250					
Apr.....	57.15	1.89	.....	46960	16740					
May.....	59.29	1.93	.....	55470	25660					
June.....	60.35	0.67	.....	42340	31690					
July.....	60.91	0.09	.....	36940	35230					
Aug.....	60.70	.....	0.22	30520	33900					
Sept.....	60.32	.....	0.68	20610	31500					
Oct.....	59.58	.....	0.71	16330	27200					
Nov.....	58.85	.....	0.75	11560	23470					
Dec.....	58.13	.....	0.70	9550	20310					