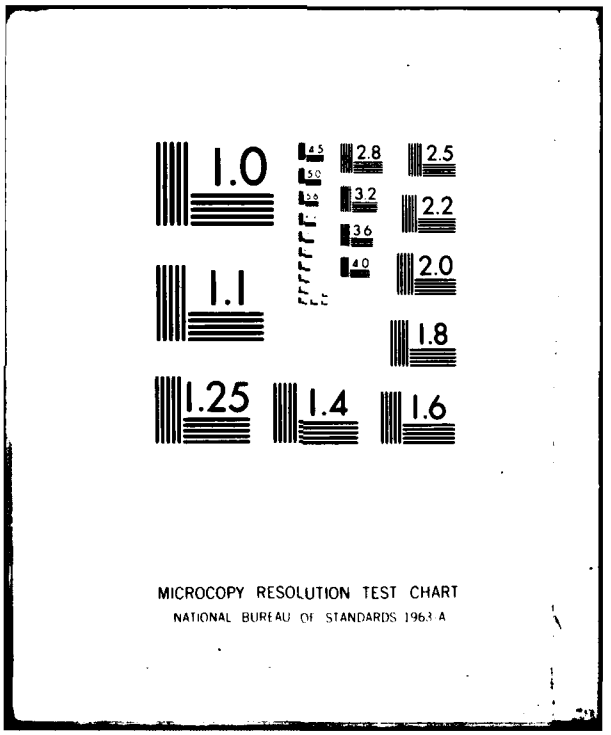
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Lake Erie Water Level Study

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Appendix A
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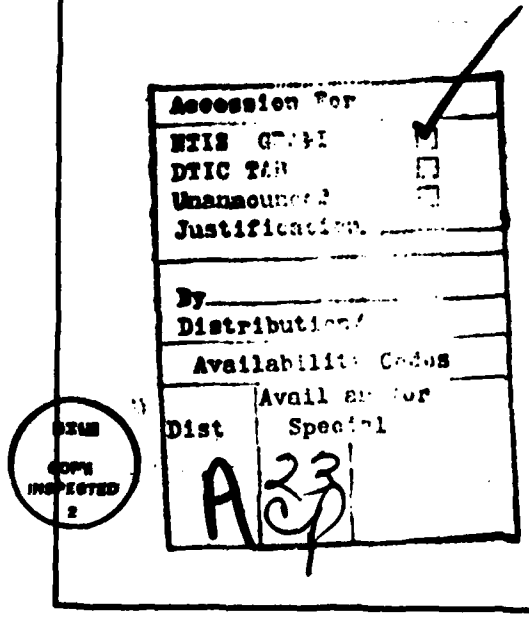
This appendix contains the coordinated basic data developed and employed in the International Lake Erie Regulation Study. It describes the methods and techniques employed in obtaining the water supply data and development of the basis-of-comparison. Volume 2 also contains tabulations of the final basis-of-comparison data and tabulations of the basic data employed in their derivation. → next page

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20. The report also provides a description of the methods and techniques employed in the development of the level and flow data for the three regulation plans developed in this study, for each of three categories, and a copy of the computer program used is presented.



LAKE ERIE REGULATION STUDY

APPENDIX A

LAKE REGULATION

VOLUME 2

COORDINATED BASIC DATA

AND

PROGRAM DOCUMENTATION -

GREAT LAKES REGULATION MODEL

REPORT TO THE

INTERNATIONAL JOINT COMMISSION

BY THE

INTERNATIONAL LAKE ERIE REGULATION STUDY BOARD

(UNDER THE REFERENCE OF 21 FEBRUARY 1977)

July 1981

LAKE ERIE REGULATION STUDY

APPENDIX A

LAKE REGULATION

COORDINATED BASIC DATA

REPORT TO THE

INTERNATIONAL JOINT COMMISSION

BY THE

INTERNATIONAL LAKE ERIE REGULATION STUDY BOARD

(UNDER THE REFERENCE OF 25 FEBRUARY 1977)

July 1978

TABLE OF CONTENTS

	PAGE
Section 1 INTRODUCTION	A-1
Section 2 RECORDED DATA	A-2
2.1 Beginning of Period Lake Levels	A-2
2.2 Recorded Outflows	A-3
2.3 Recorded Diversions	A-4
Section 3 DERIVED DATA	A-5
3.1 Net Basin Supplies	A-5
3.2 Winter and Weed Retardation	A-5
Section 4 BASIS-OF-COMPARISON	A-8
Section 5 SUMMARY	A-12
ANNEX A - Recorded Data	A-13
ANNEX B - Derived Data	A-99
ANNEX C - Basis-of-Comparison	A-153

COVER PHOTO: Computer Room, Canada Centre for Inland Waters, Burlington, Ontario.

Section 1

INTRODUCTION

At the request of the Governments of Canada and the United States, the International Joint Commission has undertaken an investigation to determine the possibilities for limited regulation of Lake Erie and the consequent effects throughout the Great Lakes basin. As a result of this request, the Commission established the International Lake Erie Regulation Study Board on 3 May 1977 to undertake, through appropriate agencies in Canada and the United States, the necessary investigations and studies and to advise the Commission on all matters which it must consider in reporting on this matter.

The Working Committee, which was established by the Study Board, appointed a Regulation Subcommittee composed of members for the U.S. from the Buffalo and the Detroit Districts of the Corps of Engineers and members for Canada from the Inland Waters Directorate, Environment Canada, located in Cornwall and Burlington, Ontario. The Regulation Subcommittee and, in particular, these two agencies were assigned the task of deriving the basis-of-comparison and the data required for the development of regulation plans. Water supply data and the basis-of-comparison data, covering the period January 1900 through December 1976, have been developed and coordinated. This report provides a description of the methods employed to obtain the final data, and contains tabulations of the basis-of-comparison data as well as the basic data used in their derivation.

Section 2

RECORDED DATA

The historic or recorded data, from which the required water supplies and comparison data for the regulation plans have been developed, were themselves developed, in part, by another international committee known as the Coordinating Committee on Great Lakes Basic Hydraulic and Hydrologic Data. This Committee is comprised of three Canadian and three U.S. members who represent the federal agencies in each country having responsibilities for accurate determination of such data. The Committee develops and coordinates data on water levels, river flows and on the physical characteristics of the Great Lakes system. The values developed by the Coordinating Committee on Great Lakes Basic Hydraulic and Hydrologic Data were employed where possible. Where required coordinated data did not exist, the missing data required were developed by the Board's Regulation Subcommittee.

Due to their larger lake area, the levels of Lake Superior and Lakes Michigan-Huron respond to changes in water supply much more slowly than do the levels of Lakes Erie and Ontario (Lake Ontario six times as fast as Lakes Michigan-Huron). For this reason, the basic data used in this study were developed and coordinated for monthly periods on Lakes Superior and Michigan-Huron, quarter-monthly periods on Lakes Erie and Ontario. Since Lake St. Clair reflects conditions mainly on Lakes Michigan-Huron, monthly periods were employed on that lake. In order to measure the effect of upstream regulation on the lower St. Lawrence River, data were also developed for Lake St. Louis.

The quarter-monthly periods used consist of seven or eight days subdivided as shown in the following tabulation:

Dates Included in Quarter-Monthly Periods

Quarter Month	Months of 28 or 29 days	Months of 30 or 31 days
First	1-7	1-8
Second	8-14	9-15
Third	15-21	16-23
Fourth	22-28 or 29	24-30 or 31

The recorded data, which are contained in Annex A and which were employed in the computation of water supplies and the basis-of-comparison for the period January 1900 through December 1976, are discussed below.

2.1 Beginning of Period Lake Levels

Since the beginning-of-period lake level is theoretically an instantaneous value and because of daily and even hourly level fluctuations

resulting from unbalance or tilting of the lake surface caused by winds, differential barometric pressure and seiche effects, the level selected might be subject to considerable error if only one gauge on a large lake were used. Therefore, in determining the beginning-of-period levels, several gauges were selected at points around the lake to provide a good representation of the lake level. The beginning-of-period levels were selected and coordinated by graphically, mathematically or judgementally eliminating the effects of wind, datum differences and other factors.

Basically, beginning-of-period levels were computed using the following method. When only one gauge was used to determine the beginning-of-period level for a lake, the level was calculated as the average of the daily mean levels for the first two days of the period and the last two days of the previous period. Where more than one gauge was used, the level was computed by first averaging the daily mean levels at all the gauges on the first day of the period, and then on the last day of the previous period. These two values were then in turn meaned to obtain a beginning-of-period level for the lake.

For Lake Superior, the water level gauges at Thunder Bay, Duluth, Michipicoten, Marquette, and Pte. Iroquois were used. The gauges used on Lakes Michigan-Huron were located at Milwaukee, Ludington, Mackinaw City, Harbor Beach, Thessalon, and Goderich.

For Lake St. Clair the Windmill Point gauge was used for the period 1900-1911, the Isle Aux Peche gauge from 1912 to 1925, the Tecumseh gauge from 1926-1950, the Grosse Pte. gauge for the period 1951-1969, and the St. Clair Shores gauge for the period 1970-1976. Relationships between each of these gauges and the Fort Wayne and Port Lambton river gauges were used to refine the levels when recorded levels did not appear representative of river and lake level conditions.

Lake Erie beginning-of-period levels were determined from Cleveland and Port Stanley daily records. The gauges at Toledo and Buffalo were used as supporting data during unstable lake level conditions. Lake Ontario beginning-of-period levels are available on a current basis from the International St. Lawrence River Board of Control.

2.2 Recorded Outflows

Recorded outflows from Lake Superior via the St. Marys River, the St. Clair and Detroit River flows and the Lake Erie and Ontario outflows were supplied by the Coordinating Committee. Lake St. Louis outflows were compiled by the Inland Waters Branch and adopted by the Regulation Subcommittee.

2.3 Recorded Diversions

The Long Lac diversion was begun in 1939. Water from Long Lac, which naturally drained into James Bay via the Kenogami and Albany Rivers, is diverted through a series of small lakes into the Aguasabon River, a tributary to Lake Superior. The Ogoki diversion was begun in 1943. Water from the Ogoki River, another tributary of the Albany River, is diverted into Lake Nipigon and held there until required by hydro-electric plants on the Nipigon River which drains into Lake Superior. Data on the amount of water diverted at both Long Lac and Ogoki are supplied by the Hydro-Electric Power Commission of Ontario and are reported in the International Lake Superior Board of Control Annual Report. Data from this report was used where possible.

The Chicago Sanitary and Ship Canal, between the Chicago River and the Des Plaines River, forms part of the Illinois Waterway connecting Lake Michigan and the Mississippi River. The flow in this canal is controlled by a dam and gates at Lockport, Illinois. Discharge figures are supplied to the U.S. Army, Corps of Engineers by the Chicago Sanitary District and have been adopted for use in this study.

The Welland Ship Canal crosses the Niagara Peninsula from Port Colborne on Lake Erie to Port Weller on Lake Ontario. The New York State Barge Canal System is a series of canals, a part of which links the Niagara River above Niagara Falls with Lake Ontario. Recorded discharges for the Welland Canal and New York State Barge Canal for the period 1900-1975, are available in the Coordinating Committee's Lake Erie Outflow Report dated June 1976. This report was used where possible. The Monthly Report of Flow Directed from Lake Erie-Welland Canal, released by the St. Lawrence Seaway Authority of Transport Canada, was the source of the 1976 values.

The recorded data is tabulated in Annex A of this report.

Section 3

DERIVED DATA

Employing the recorded data listed above, data required for the lake regulation studies were derived as follows and are tabulated in Annex B.

3.1 Net Basin Supplies

The net basin supply is a term used to describe the water which a lake receives from precipitation on both its surface and on its own land drainage basin less the net effect of evaporation and condensation on the lake surface. With presently available techniques, some of these factors cannot be determined accurately; therefore, the net basin supplies were computed by employing reliable lake level and flow records for the required monthly and quarter-monthly periods. The relationship used is as follows:

$$NBS = \Delta S + O - I \pm D$$

Where:

NBS = Net basin supply
ΔS = Change in storage from beginning to end of the period
O = Average outflow from lake through outflow river
I = Average inflow to lake from inflow river
D = Diversion into (-) and out of (+) the lake

with all terms expressed in units of cubic feet per second for the period. The sum of the values ΔS and O represents the net total supply to the lake.

The values for changes in storage, outflows and inflows are obtained or determined directly from the mutually adopted recorded values of lake levels, river flows and diversions listed above.

3.2 Winter and Weed Retardation

The flows in the outlet rivers of the lakes during the winter season are often retarded materially by ice formation and by ice jamming. These conditions are not predictable for any specific winter, either as to their severity or the exact timing of their occurrence. The natural retardation of flows under ice conditions causes the levels of unregulation lakes to be higher at the time of the spring breakup than the levels would be if there is no ice, and this increases the storage on the lake.

The water level of Lake Superior and the outflow through the St. Marys River are regulated by the International Lake Superior Board of Control under authority of the International Joint Commission. The physical control is achieved by a dam and other structures at the head of the St. Marys Rapids at Sault Ste. Marie, Michigan/Ontario. Under present regulation conditions, the winter retardation effect on the discharges is virtually zero. Since the basis-of-comparison condition for Lake Superior was considered to be under regulated conditions, it was not necessary to consider winter retardation in the St. Marys River.

Lake Huron does not freeze over completely during the winter, primarily due to the influence of wind and the heat stored in the lake. The ice which forms in exposed central parts of the lake is continually broken up and moved about by the action of the wind. Some of this ice finds its way into the St. Clair River. As a result of these heavy runs of ice, jams occur which materially reduce the normal flow and in turn affect both the upstream and downstream levels. Winter retardation in the St. Clair River was computed for use in this study by subtracting the coordinated recorded St. Clair River flow from the corresponding discharge computed from the open water discharge relationship for the Harbor Beach, and St. Clair Shores (or Grosse Pointe) gauges.

Lake St. Clair normally freezes over in early winter and shields the Detroit River from heavy ice runs. The Detroit River itself, however, frequently freezes over in its lower reaches. Due to the size of Lake St. Clair, even a small retardation influences its level regime. Therefore, for use in this study, winter retardation in the Detroit River was determined to be the difference between the flow computed from the open water discharge relationship for the St. Clair Shores (or Grosse Pointe) and Cleveland gauges, and the coordinated recorded flow.

As in the case of Lake Huron, the principle problem with ice in Lake Erie and the Niagara River results from breakup of lake ice fields and the wind pushing the ice into the river. In order to avoid ice problems in the Niagara River, an ice boom has been placed across the head of the Niagara River each winter season since 1964 by the power entities. The presence of this ice boom has reduced the retardation of Niagara River flow by ice to a very small amount which can be considered insignificant. However, since the outlet conditions of 1953 were adopted as the basis to be used for comparing regulation plans, average winter retardation was assumed for the Niagara River over the period of record. In addition, a small amount of weed retardation exists in the summer months. For these investigations, average monthly values as derived by the Coordinating Committee on Great Lakes Basic Hydraulic and Hydrologic Data in the Lake Erie Outflow Report dated June 1965 have been used.

Since Lake Ontario has been regulated since 1960, and the basis-of-comparison assumes this condition for the entire study period, no winter retardations were required for the calculations of effects on the upper

St. Lawrence River. Reduction in the winter flow at the outlet of Lake St. Louis was calculated directly as the difference between the discharges derived from its approximate open-water stage discharge curve and the recorded discharges.

Section 4

BASIS FOR COMPARISON

The recorded Great Lakes level and outflow data reflect the effects of changes in the regimen of the lakes and their connecting channels which occurred over the study period (1900-1976). The principal changes were man-made and consisted of changes in the amount of diversion into and out of the Great Lakes basin, alterations in the configuration of the connecting channels and the erection of control structures at the outlets of Lakes Superior and Ontario. In addition to these man-made changes, the movement of the earth's crust in the Great Lakes basin, a natural phenomenon, has been progressively changing the tilt of the basin with a resultant gradual change in the elevation of individual lake outlets with respect to any given point on each lake. In order to permit consistent evaluation of the effects of various regulation plans, it was necessary to develop a set of lake levels and outflows which would reflect a constant or fixed regimen in the Great Lakes-St. Lawrence River System over the study period.

The Board agreed on the following basic conditions of lake levels and outflows to be used as the basis for evaluation. The conditions, together with the reasons for their selection are as follows:

(1) A constant diversion of 5,000 cfs into Lake Superior by way of the Long Lac and Ogoki diversions. This diversion was authorized under the exchange of notes, dated October 14 and 31 and November 7, 1940, between the United States and Canada and has averaged approximately this amount since that date.

(2) Lake Superior regulated in accordance with Plan 1977, which is the currently authorized plan being used by the International Lake Superior Board of Control for determining releases from Lake Superior.

(3) A constant diversion of 3,200 cfs out of Lake Michigan at Chicago. This is the maximum allowable diversion at Chicago by decree of the U.S. Supreme Court, dated June 12, 1967.

(4) 1962 outlet conditions for Lake Huron. This represents the current conditions, which have existed since the completion of the 27-foot navigation channel dredging in 1962.

(5) A constant diversion, by way of the Welland Canal, of 7,000 cfs out of Lake Erie and into Lake Ontario. This is the approximate average diversion through the Welland Canal during the period 1950-1976.

(6) 1953 outlet conditions for Lake Erie. In its 1953 report on the Preservation and Enhancement of Niagara Falls, the International Joint Commission considered it essential that the relationship existing at that time between the Niagara River flow and the Chippewa-Grass Island Pool level be

maintained following the commencement of operation of the Chippewa-Grass Island Pool Control Structure and power diversions as permitted by the 1950 Niagara Treaty.

(7) Lake Ontario regulated during the period 1900-April 1960 in accordance with Plan 1958-D without discretionary deviation. For the period from April 1960 to December 1976, Lake Ontario was regulated in accordance with Plan 1958-D with discretionary deviations as they occurred. Minor adjustments to the discretionary deviation values were required during the period 1973-1976 to preclude violation of the St. Lawrence River low water profiles.

(8) Recorded conditions for the Ottawa River and local inflow to the St. Lawrence River.

The levels and outflows to be used as a basis-of-comparison for each lake were obtained by routing through the system the coordinated net basin supplies employing the constant conditions previously listed.

For Lake Superior, the basis-of-comparison levels and outflows were obtained by routing through the lake the coordinated net basin supplies (adjusted for a constant 5,000 cfs diversion into the lake by way of the Long Lac and Ogoki diversions) in accordance with the present regulation plan known as Plan 1977.

Because of the nature of the control in the St. Clair and Detroit Rivers, the problem of routing supplies through Lakes Michigan-Huron, St. Clair and Erie was fairly complex. The St. Clair River and Detroit River flows are dependent not only on Lake Huron levels, but also on the water levels in the lower river and Lake Erie. Therefore, a method of successive approximations of supply routing as described in the steps below was used:

(1) The month was first considered to be broken-up into very small periods (the period used was one-fortieth of a month) because Lake St. Clair levels are very sensitive to small changes in outflow. Therefore, the data available on a monthly basis (net basin supplies to Lakes Michigan-Huron and St. Clair) were considered to be made up of 40 equal parts, and correspondingly, the data available on a quarter-monthly basis (net basin supplies to Lake Erie) were considered to be made up of 10 equal parts.

(2) Net total supply to Lakes Michigan-Huron was calculated as the routed Lake Superior outflow plus the Lakes Michigan-Huron net basin supply minus a constant diversion of 3,200 cfs at Chicago.

(3) In the first approximation, the beginning-of-period stages were considered equal to the average levels for the period.

(4) A first estimate of the Lake Huron outflow was made with the Harbor Beach-St. Clair Shores two-gauge relationship for the 1962 regime:

$Q = 0.0841168\ (0.5\ HB + 0.5\ SCS - 543.4)^{2.0}\ (HB - SCS)^{0.5}$ - winter retardation.

(5) A first estimate of the Lake St. Clair total supply was made by adding the Lakes Michigan-Huron calculated outflow to the Lake St. Clair net basin supply.

(6) A first estimate of the Lake St. Clair outflow was made from the St. Clair Shores-Cleveland two-gauge relationship for the 1962 regime:

$Q = 0.1280849\ (SCS - 543.81)^2\ (SCS - C)^{0.5}$ - winter retardation.

(7) An initial estimate of the Lake Erie total supply was made by adding the Lake St. Clair calculated outflow to the Lake Erie net basin supply.

(8) A first estimate of Lake Erie outflow was made from the Buffalo single gauge relationship for the 1953 regime.

$Q = 3665\ (B - 556.25)^{1.5} + 7.00$ (Welland) - winter or weed retardation.

(9) Having a first estimate of the total supply and outflow from each lake, a first estimate was made of the change of storage, the end-of-period level, and the mean level for the period.

(10) Steps (4-9) were repeated using first estimate mean levels in place of beginning-of-period levels.

(11) The process was repeated four times. This was judged sufficient to stabilize the system.

(12) The required monthly and quarter-monthly data were extracted by combining the calculated data for the shorter periods.

Having the Lake Erie outflows and Lake Ontario net basin supplies, the net total supplies to Lake Ontario were calculated. Outflows and levels for Lake Ontario were calculated by employing the developed rules of Plan 1958-D for the period up to 20 April 1960 and applying the deviations from this plan as they actually occurred during the period after that date to December 1976, with some minor adjustments made to preclude violation of the St. Lawrence River low water profiles during the latter period.

Lake Ontario outflows were added to the recorded differences between the Lake St. Louis and Lake Ontario outflows to obtain Lake St. Louis outflows for

comparison purposes. Then, working with the Lock 5 rating equation, the basis-of-comparison Lake St. Louis levels were calculated as:

$$SL = [(Q + \text{ice retardation})/5.6268]^{2/3} + 54.29$$

The basis-of-comparison data are contained in Annex C.

Section 5

SUMMARY

The current study of possible regulation of Lake Erie has required the coordination of the net basin supplies and basis-of-comparison levels and outflows for each of the lakes. These basic data are employed directly in the regulation study and serve a number of important functions in the study.

Most of the long term trends, for example, changes in diversions and regulation procedures, have been removed from the data. Several other long term trends such as increasing tributary regulation, changes in winter retardation, and increasing consumptive use remain in the data. However, it is assumed that these effects are small enough so as not to significantly affect the regulation studies over the historical period, when compared with a basis-of-comparison which employed the same input data.

ANNEX A

RECORDED DATA

ANNEX A

RECORDED DATA

Table		Page
A-1	Lake Superior Monthly Beginning-of-Period Levels	A-17
A-2	Lakes Michigan-Huron Monthly Beginning-of-Period Levels	A-20
A-3	Lake St. Clair Monthly Beginning-of-Period Levels	A-23
A-4	Lake Erie Quarter-Monthly Beginning-of-Period Levels	A-26
A-5	Lake Ontario Quarter-Monthly Beginning-of-Period Levels	A-37
A-6	Lake Superior Monthly Mean Outflow	A-48
A-7	Lakes Michigan-Huron Monthly Mean Outflow	A-51
A-8	Lake St. Clair Monthly Mean Outflow	A-54
A-9	Lake Erie Quarter-Monthly Mean Outflow	A-57
A-10	Lake Erie Monthly Mean Outflow	A-68
A-11	Lake Ontario Quarter-Monthly Mean Outflow	A-71
A-12	Lake Ontario Monthly Mean Outflow	A-82
A-13	Lake St. Louis Monthly Mean Outflow	A-85
A-14	Long Lac and Ogoki Diversions	A-88
A-15	Chicago Sanitary and Ship Canal (Including Illinois and Michigan Canal)	A-91
A-16	Welland Canal	A-94
A-17	New York State Barge Canal	A-97

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TABLE A-1

LAKE SUPERIOR MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	600.75	600.45	600.35	600.10	600.25	600.40	600.40	600.75	601.15	601.65	601.60	601.30
1901	600.90	600.55	600.30	600.25	600.40	600.55	600.90	601.20	601.20	601.00	601.05	600.80
1902	600.50	600.20	600.05	600.00	600.20	600.50	600.80	600.90	600.90	600.90	600.85	600.80
1903	600.55	600.30	599.95	600.05	600.30	600.95	601.00	601.25	601.30	601.40	601.30	601.10
1904	600.65	600.40	600.30	600.20	600.20	600.70	600.90	600.90	601.10	601.20	601.30	600.95
1905	600.60	600.20	600.10	600.20	600.30	600.65	600.95	601.15	601.30	601.45	601.25	601.15
1906	600.85	600.55	600.40	600.15	600.40	600.65	601.00	601.00	601.00	600.95	600.80	600.65
1907	600.35	600.15	600.00	600.00	599.95	600.45	600.70	600.80	601.10	601.25	601.05	600.75
1908	600.25	599.95	599.80	599.65	599.80	600.45	600.80	600.95	600.85	600.75	600.50	600.10
1909	599.85	599.55	599.45	599.30	599.45	600.00	600.05	600.45	600.50	600.45	600.30	600.35
1910	600.15	599.90	599.65	599.55	599.75	599.90	599.95	600.00	600.10	600.00	599.80	599.60
1911	599.20	599.00	598.80	598.65	598.70	599.20	599.55	600.00	600.20	600.30	600.15	599.95
1912	599.80	599.55	599.45	599.40	599.80	600.10	600.40	600.50	600.70	600.65	600.60	600.25
1913	600.05	599.65	599.45	599.65	599.90	600.30	600.45	600.75	600.85	601.00	600.95	600.90
1914	600.55	600.25	600.05	599.85	600.15	600.50	600.70	600.85	600.90	600.90	600.65	600.45
1915	599.95	599.90	599.70	599.40	599.60	599.85	600.35	600.50	600.50	600.80	600.85	600.90
1916	600.75	600.60	600.40	600.30	600.90	601.45	601.80	601.85	601.85	601.95	601.75	601.35
1917	601.10	600.65	600.45	600.45	600.40	600.60	600.83	600.86	600.99	600.93	600.74	600.44
1918	600.12	599.92	599.79	599.56	599.71	600.16	600.43	600.58	600.69	600.59	600.67	600.65
1919	600.55	600.32	600.20	600.05	600.34	600.58	600.72	600.78	600.74	600.74	600.54	600.58
1920	600.28	600.14	600.04	600.31	600.53	600.74	601.06	601.18	601.10	600.82	600.77	600.46
1921	600.37	600.01	599.82	599.80	600.22	600.59	600.69	600.86	600.86	600.79	600.56	600.24
1922	599.88	599.63	599.48	599.49	599.86	600.28	600.56	600.80	600.86	600.82	600.60	600.32
1923	600.09	599.86	599.60	599.54	599.68	599.82	599.96	600.18	600.23	600.24	600.22	600.06
1924	599.82	599.56	599.32	599.15	599.36	599.42	599.54	599.75	600.03	600.10	600.03	599.74
1925	599.38	599.16	598.98	598.95	599.10	599.25	599.51	599.68	599.70	599.72	599.40	599.06
1926	598.75	598.52	598.29	598.28	598.27	598.52	598.86	599.20	599.39	599.74	599.82	599.86
1927	599.74	599.49	599.39	599.50	599.78	600.36	600.63	600.95	600.88	600.86	600.78	600.57
1928	600.34	600.11	599.90	599.85	600.12	600.46	600.68	601.17	601.38	601.49	601.60	601.25
1929	600.84	600.65	600.60	600.68	600.75	600.83	600.94	601.12	601.01	601.05	600.98	600.80
1930	600.56	600.35	600.28	600.10	600.22	600.57	601.01	601.21	601.02	600.94	600.81	600.66
1931	600.38	600.16	599.88	599.69	599.78	600.06	600.32	600.52	600.48	600.58	600.62	600.66
1932	600.49	600.31	600.21	600.03	600.20	600.63	600.73	601.06	601.24	600.94	600.74	600.55
1933	600.34	600.14	600.08	599.92	600.26	600.81	600.99	601.10	601.04	601.11	601.04	600.84

TABLE A-1 (CONTINUED)

LAKE SUPERIOR MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	600.61	600.50	600.34	600.30	600.47	600.90	601.04	601.08	600.97	601.20	601.13	601.18
1935	600.83	600.68	600.45	600.51	600.68	600.80	601.11	601.35	601.28	601.11	601.03	600.75
1936	600.53	600.35	600.26	600.32	600.51	601.10	601.19	601.08	601.12	600.99	600.72	600.44
1937	600.26	600.10	600.16	599.96	600.33	600.80	600.84	601.14	601.26	601.14	601.06	600.96
1938	600.69	600.51	600.38	600.45	601.02	601.33	601.64	601.56	601.53	601.35	601.08	600.92
1939	600.72	600.62	600.51	600.49	600.70	601.14	601.56	601.61	601.59	601.36	601.03	600.73
1940	600.37	600.15	599.90	599.73	599.82	600.41	600.87	601.04	600.96	600.86	600.67	600.59
1941	600.39	600.10	599.89	599.67	600.19	600.46	600.76	600.90	600.99	601.40	601.49	601.18
1942	600.92	600.63	600.41	600.44	600.59	601.09	601.15	601.25	601.32	601.26	601.31	601.30
1943	601.03	600.84	600.71	600.64	600.77	601.28	601.84	601.83	601.79	601.50	601.24	600.94
1944	600.52	600.24	600.02	599.94	600.11	600.67	601.26	601.60	601.73	601.70	601.27	601.13
1945	600.71	600.49	600.43	600.66	600.96	601.05	601.14	601.29	601.44	601.44	601.21	601.02
1946	600.73	600.56	600.41	600.53	600.63	600.83	601.11	601.21	601.18	601.29	601.32	601.18
1947	600.90	600.59	600.36	600.19	600.57	601.01	601.67	601.61	601.59	601.50	601.21	600.90
1948	600.55	600.25	599.98	599.89	600.48	600.55	600.65	600.79	600.98	600.82	600.57	600.59
1949	600.36	600.21	600.03	599.94	600.12	600.51	600.88	601.24	601.20	601.08	601.12	600.91
1950	600.67	600.53	600.33	600.32	600.58	601.45	601.81	602.01	602.00	601.87	601.78	601.64
1951	601.24	600.94	600.96	600.97	601.37	601.60	601.82	601.82	601.92	601.99	601.88	601.62
1952	601.37	601.16	600.90	600.76	601.10	601.10	601.47	601.97	601.98	601.70	601.10	600.80
1953	600.52	600.31	600.17	600.15	600.40	600.88	601.31	601.49	601.52	601.24	600.87	600.57
1954	600.33	600.10	599.99	599.80	600.27	600.86	601.24	601.20	601.01	600.85	600.63	600.47
1955	600.11	599.83	599.69	599.66	600.09	600.32	600.42	600.61	600.74	600.72	600.78	600.70
1956	600.36	600.15	599.86	599.61	599.73	600.17	600.40	600.73	600.77	600.68	600.48	600.26
1957	600.07	599.69	599.57	599.55	599.94	600.19	600.58	600.76	600.74	600.73	600.49	600.48
1958	600.21	600.00	599.78	599.62	599.75	599.86	600.18	600.49	600.64	600.75	600.60	600.54
1959	600.24	599.99	599.81	599.73	599.86	600.39	600.63	600.74	601.16	601.36	601.23	600.80
1960	600.50	600.30	600.03	599.85	600.36	600.96	601.04	601.05	601.00	600.81	600.55	600.50
1961	600.10	599.84	599.77	599.78	599.95	600.27	600.42	600.51	600.45	600.55	600.54	600.35
1962	600.15	599.82	599.77	599.68	599.78	600.26	600.40	600.49	600.66	600.73	600.51	600.20
1963	599.91	599.74	599.56	599.60	599.86	600.07	600.50	600.57	600.67	600.62	600.46	600.30
1964	599.95	599.83	599.55	599.38	599.79	600.40	600.75	600.80	600.94	600.99	600.75	600.54
1965	600.25	599.96	599.78	599.69	599.91	600.40	600.52	600.56	600.59	600.68	600.59	600.57
1966	600.39	600.17	600.00	600.08	600.26	600.62	600.77	600.82	601.00	600.72	600.69	600.49
1967	600.29	600.13	599.98	599.92	600.42	600.50	600.82	600.88	600.94	600.66	600.66	600.44

TABLE A-1 (CONTINUED)

LAKE SUPERIOR MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	600.18	599.92	599.68	599.72	600.20	600.46	601.06	601.50	601.64	601.78	601.72	601.28
1969	601.08	601.04	600.81	600.57	600.88	601.04	601.11	601.10	601.08	600.85	600.73	600.54
1970	600.24	600.08	599.87	599.72	600.05	600.68	600.93	601.26	601.15	601.17	601.32	601.30
1971	601.06	600.69	600.72	600.64	600.89	601.30	601.48	601.50	601.45	601.32	601.34	601.16
1972	600.87	600.70	600.54	600.56	600.80	601.08	601.11	601.30	601.57	601.55	601.23	600.99
1973	600.71	600.44	600.30	600.54	600.73	601.22	601.53	601.72	601.88	601.67	601.54	601.26
1974	600.97	600.76	600.56	600.38	600.72	601.04	601.39	601.62	601.84	601.77	601.72	601.61
1975	601.32	601.16	601.01	600.78	600.83	601.10	601.40	601.47	601.34	601.29	601.07	601.20
1976	600.94	600.70	600.57	600.66	601.02	601.06	601.30	601.32	601.16	600.82	600.53	600.20

TABLE A-2

LAKE MICHIGAN/HURON MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	578.10	577.95	578.15	578.13	578.41	578.54	578.63	578.95	579.02	578.96	578.89	578.78
1901	578.42	578.25	578.19	578.59	578.94	579.15	579.25	579.43	579.34	578.95	578.77	578.36
1902	578.21	578.01	577.92	578.09	578.25	578.52	578.82	579.14	578.90	578.75	578.40	578.32
1903	577.98	577.93	578.06	578.38	578.56	578.82	578.90	578.96	578.94	579.00	578.77	578.42
1904	578.19	578.10	578.16	578.60	579.04	579.55	579.72	579.74	579.64	579.52	579.32	578.93
1905	578.61	578.50	578.51	578.83	578.96	579.40	579.73	579.85	579.76	579.56	579.19	579.02
1906	578.80	578.91	579.00	579.10	579.36	579.54	579.73	579.69	579.45	579.27	579.03	578.95
1907	578.81	578.92	578.90	579.05	579.24	579.52	579.72	579.76	579.63	579.52	579.18	578.92
1908	578.76	578.62	578.74	578.95	579.26	579.78	579.89	580.02	579.67	579.32	578.92	578.49
1909	578.21	578.10	578.20	578.24	578.75	579.17	579.31	579.29	579.10	578.88	578.40	578.29
1910	578.25	578.23	578.17	578.24	578.58	578.70	578.71	578.60	578.50	578.36	578.15	577.92
1911	577.55	577.56	577.55	577.52	577.80	578.13	578.24	578.09	577.92	577.82	577.73	577.66
1912	577.60	577.52	577.52	577.48	577.85	578.60	578.68	578.76	578.83	578.82	578.63	578.56
1913	578.37	578.24	578.17	578.50	579.05	579.41	579.48	579.49	579.30	579.00	578.78	578.70
1914	578.33	578.26	578.20	578.29	578.44	578.68	578.94	578.94	578.82	578.60	578.35	578.00
1915	577.66	577.70	577.78	577.68	577.73	577.89	578.08	578.16	578.13	578.17	577.78	577.71
1916	577.49	577.56	577.58	577.81	578.44	578.94	579.37	579.38	579.11	578.94	578.85	578.71
1917	578.75	578.68	578.60	578.77	579.17	579.42	579.99	580.22	580.00	579.73	579.40	579.19
1918	578.94	578.96	579.13	579.43	579.70	580.15	580.13	580.06	579.84	579.48	579.33	579.19
1919	579.17	578.93	578.75	579.00	579.33	579.66	579.57	579.47	579.14	578.89	578.76	578.55
1920	578.35	578.18	578.15	578.54	578.88	578.95	579.16	579.20	579.13	579.01	578.71	578.38
1921	578.22	578.09	577.98	578.24	578.76	578.76	578.73	578.54	578.41	578.25	577.95	577.68
1922	577.65	577.41	577.55	577.75	578.41	578.66	578.78	578.90	578.59	578.37	577.87	577.63
1923	577.28	577.10	576.99	577.17	577.55	577.93	578.08	578.02	577.86	577.75	577.49	577.12
1924	576.95	576.72	576.78	576.96	577.23	577.58	577.72	577.79	577.90	577.66	577.22	576.92
1925	576.56	576.38	576.40	576.57	576.65	576.56	576.72	576.72	576.44	576.23	575.97	575.82
1926	575.66	575.61	575.64	575.77	576.16	576.45	576.78	576.81	576.75	576.65	576.52	576.61
1927	576.49	576.50	576.60	576.89	577.15	577.63	577.78	577.85	577.55	577.44	577.22	577.20
1928	577.09	577.04	577.14	577.37	577.98	578.29	578.59	578.71	578.73	578.61	578.82	578.90
1929	578.86	578.89	578.74	579.11	579.87	580.45	580.60	580.57	580.31	579.92	579.59	579.24
1930	578.89	578.81	578.94	578.94	579.06	579.26	579.46	579.48	579.18	578.79	578.35	577.96
1931	577.63	577.35	577.19	577.27	577.27	577.38	577.42	577.27	576.88	576.97	576.67	576.73
1932	576.38	576.58	576.51	576.46	576.60	576.86	576.86	576.85	576.71	576.40	576.25	576.02
1933	576.01	575.90	575.89	575.84	576.36	576.88	576.97	576.92	576.58	576.32	576.07	575.85

TABLE A-2 (CONTINUED)

LAKE MICHIGAN/HURON MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	575.73	575.77	575.57	575.67	576.03	576.12	576.27	576.22	576.01	576.15	575.85	575.96
1935	575.93	575.85	575.89	576.12	576.33	576.47	576.80	576.86	576.71	576.56	576.33	576.37
1936	576.12	576.14	576.18	576.36	576.54	576.88	576.92	576.80	576.76	576.73	576.57	576.20
1937	576.13	576.10	576.21	576.08	576.55	576.78	576.94	576.90	576.79	576.58	576.36	576.22
1938	575.95	576.05	576.34	576.82	577.12	577.42	577.73	577.83	577.86	577.78	577.50	577.27
1939	577.05	576.92	577.01	577.09	577.50	577.82	578.18	578.19	578.24	578.03	577.76	577.45
1940	577.16	576.98	576.87	576.75	576.91	577.27	577.57	577.58	577.60	577.46	577.14	577.05
1941	577.00	576.98	576.93	576.82	577.20	577.30	577.30	577.23	576.96	576.98	577.14	577.25
1942	577.15	577.12	577.14	577.49	577.75	578.17	578.43	578.44	578.18	578.06	577.87	577.71
1943	577.57	577.54	577.67	577.98	578.33	578.88	579.52	579.70	579.70	579.45	579.18	579.08
1944	578.68	578.59	578.50	578.58	578.69	578.87	579.11	579.05	578.82	578.79	578.49	578.32
1945	578.02	577.87	577.82	578.05	578.32	578.78	579.21	579.23	579.05	578.96	578.78	578.71
1946	578.52	578.56	578.60	578.92	578.94	579.11	579.27	579.13	578.84	578.58	578.28	577.94
1947	577.74	577.67	577.61	577.61	578.32	578.91	579.25	579.39	579.32	579.18	579.04	578.77
1948	578.34	578.13	578.12	578.52	578.88	579.10	579.16	579.07	578.77	578.32	577.77	577.79
1949	577.50	577.46	577.42	577.41	577.64	577.74	577.99	577.98	577.63	577.28	576.98	576.67
1950	576.51	576.65	576.71	576.96	577.47	577.70	578.02	578.23	578.22	578.14	577.97	577.84
1951	577.79	577.85	577.98	578.24	579.08	579.33	579.54	579.82	579.84	579.69	579.81	579.84
1952	579.80	579.92	579.84	579.98	580.50	580.69	580.79	580.94	580.91	580.55	579.92	579.82
1953	579.65	579.48	579.43	579.62	579.89	580.11	580.37	580.36	580.28	579.91	579.62	579.27
1954	578.97	578.73	578.82	578.89	579.34	579.54	579.92	579.91	579.78	579.73	580.01	579.83
1955	579.57	579.38	579.25	579.26	579.61	579.69	579.69	579.50	579.17	578.58	578.38	578.13
1956	577.84	577.74	577.72	577.82	578.14	578.56	578.66	578.74	578.76	578.39	578.08	577.81
1957	577.61	577.40	577.33	577.31	577.56	577.82	578.05	578.15	577.88	577.67	577.44	577.35
1958	577.31	577.26	577.17	577.12	577.23	577.12	577.20	577.22	577.03	576.86	576.57	576.26
1959	575.98	575.92	575.97	576.16	576.78	577.12	577.13	577.10	577.23	577.08	577.11	577.17
1960	577.22	577.24	577.30	577.25	577.90	578.67	579.04	579.25	579.24	579.02	578.66	578.55
1961	578.13	577.85	577.78	577.89	578.09	578.15	578.30	578.30	578.14	578.14	577.91	577.69
1962	577.42	577.36	577.40	577.52	577.75	577.96	577.99	577.87	577.73	577.44	577.14	576.78
1963	576.46	576.26	576.22	576.46	576.68	576.90	576.90	576.90	576.79	576.57	576.28	575.99
1964	575.62	575.50	575.35	575.37	575.69	575.94	575.98	576.05	575.98	575.92	575.64	575.57
1965	575.44	575.46	575.55	575.72	576.31	576.70	576.80	576.80	576.85	577.12	577.04	577.05
1966	577.12	577.00	577.02	577.35	577.57	577.66	577.72	577.61	577.45	577.11	576.81	576.92
1967	576.99	576.99	576.95	577.08	577.76	577.94	578.41	578.36	578.23	577.97	577.84	577.76

TABLE A-2 (CONTINUED)

LAKE MICHIGAN/HURON MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	577.83	577.71	577.70	577.74	578.04	578.22	578.52	578.58	578.68	578.73	578.48	578.36
1969	578.34	578.35	578.30	578.33	578.81	579.24	579.70	579.92	579.76	579.35	579.17	579.00
1970	578.72	578.64	578.52	578.51	578.82	579.12	579.29	579.46	579.20	579.31	579.06	578.90
1971	578.88	578.77	578.86	579.05	579.49	579.71	579.86	579.91	579.78	579.59	579.42	579.15
1972	579.26	578.97	578.88	578.96	579.42	579.74	579.90	580.07	580.32	580.25	580.06	579.95
1973	579.93	579.92	579.80	580.18	580.46	580.90	581.06	580.96	580.94	580.58	580.39	580.09
1974	579.91	579.96	579.90	580.00	580.46	580.74	580.99	580.95	580.72	580.36	580.02	579.82
1975	579.64	579.50	579.59	579.72	580.04	580.36	580.58	580.48	580.37	580.10	579.62	579.53
1976	579.38	579.21	579.36	579.92	580.26	580.51	580.57	580.47	580.08	579.61	579.11	578.76

TABLE A-3

LAKE ST. CLAIR MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	572.64	572.45	572.58	573.00	573.14	573.27	573.32	573.52	573.44	573.24	573.00	572.94
1901	572.94	571.55	571.47	572.47	570.89	573.17	573.27	573.43	573.46	573.06	572.85	572.61
1902	572.96	570.97	571.55	572.29	572.69	573.18	573.61	574.00	573.55	573.25	573.03	572.50
1903	573.07	573.19	572.32	573.17	573.59	573.94	573.74	573.81	573.75	573.52	573.19	572.85
1904	573.11	572.16	572.97	574.01	573.98	574.32	574.17	574.28	574.16	573.77	573.55	573.07
1905	572.93	571.84	571.89	573.38	573.20	573.70	574.11	574.18	574.05	573.80	573.39	573.27
1906	572.97	573.05	572.05	572.90	573.15	573.35	573.60	573.80	573.55	573.50	573.30	572.90
1907	572.10	573.35	572.80	573.40	573.55	574.00	574.05	574.00	573.85	573.85	573.50	573.00
1908	573.40	572.00	572.65	573.75	573.75	574.30	574.40	574.40	574.00	573.50	573.20	572.45
1909	572.35	572.35	571.90	572.75	573.50	574.00	574.10	574.15	573.75	573.20	572.80	572.95
1910	574.47	572.00	572.45	572.80	573.40	573.25	573.55	573.45	573.30	572.95	572.60	572.25
1911	571.85	571.00	571.05	572.25	572.60	572.85	573.00	572.85	572.75	572.65	572.30	572.05
1912	572.14	572.20	572.70	572.83	573.08	573.35	573.37	573.20	573.21	573.05	572.81	572.44
1913	572.53	572.70	571.90	574.00	574.07	574.18	574.09	573.93	573.60	573.18	572.90	573.02
1914	572.68	571.68	572.32	572.78	572.92	573.38	573.36	573.35	573.14	572.89	572.46	572.24
1915	572.84	571.50	571.65	571.86	572.10	572.45	572.56	572.76	572.80	572.86	572.22	571.84
1916	572.16	572.70	571.88	572.69	573.04	573.78	573.85	573.79	573.35	573.08	572.71	572.51
1917	574.12	572.62	572.59	572.98	573.12	573.96	574.38	574.42	574.22	573.64	573.41	573.42
1918	572.77	571.95	572.70	572.41	572.23	573.57	573.58	573.82	573.58	573.40	573.15	572.78
1919	573.11	573.06	572.48	573.46	573.70	574.24	574.24	573.94	573.58	573.24	573.10	572.28
1920	570.88	570.88	570.98	572.14	572.91	573.05	573.32	573.40	573.35	572.97	572.66	572.65
1921	573.21	572.43	571.49	573.05	573.49	573.54	573.48	573.14	572.88	572.40	572.57	572.23
1922	572.30	571.65	571.18	572.77	573.09	573.33	573.44	573.36	573.16	572.89	572.44	571.78
1923	571.93	571.03	571.38	571.53	572.11	572.65	572.71	572.71	572.39	572.35	571.88	571.57
1924	571.85	571.55	571.20	571.72	572.27	572.56	572.84	572.85	572.68	572.37	571.88	571.26
1925	571.18	570.78	570.73	571.66	571.72	571.51	571.68	571.68	571.40	571.43	570.94	570.90
1926	570.09	569.76	569.88	570.77	571.40	571.44	571.75	571.89	571.85	572.10	571.78	571.92
1927	571.88	570.45	569.84	572.12	572.24	572.77	572.70	572.97	572.50	572.14	571.92	572.16
1928	572.07	571.91	571.00	572.40	572.51	572.82	573.39	573.40	573.20	572.97	573.04	573.00
1929	572.93	573.30	573.91	573.62	574.77	574.94	574.88	574.98	574.52	574.40	573.83	573.22
1930	572.42	573.43	574.33	574.07	574.23	574.18	574.21	574.04	573.73	573.39	572.96	572.35
1931	572.28	570.92	570.23	571.12	572.15	572.22	572.30	572.32	571.88	571.78	571.45	571.22
1932	571.80	571.53	571.95	571.26	571.97	572.41	571.98	572.10	571.92	571.68	571.46	571.40
1933	571.73	571.44	571.23	571.86	572.30	572.50	572.55	572.20	572.07	571.70	571.40	571.10

TABLE A-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	571.25	570.10	570.26	570.21	571.36	571.33	571.46	571.41	571.02	571.06	570.57	570.40
1935	571.25	570.02	570.01	571.19	571.21	571.54	571.74	571.64	571.56	571.21	571.20	570.78
1936	570.26	570.04	571.10	571.55	571.77	571.80	571.80	571.53	571.30	571.71	571.22	571.04
1937	571.13	571.68	571.19	571.46	572.85	572.48	572.79	572.70	572.39	572.05	571.55	571.12
1938	571.36	570.78	571.36	572.20	572.40	572.76	572.81	572.91	572.67	572.75	572.43	572.00
1939	572.68	571.22	571.01	572.29	572.92	572.96	573.13	573.10	572.89	572.80	572.39	572.15
1940	571.99	570.87	570.93	571.72	572.13	572.73	572.78	572.85	572.72	572.64	572.17	571.88
1941	572.52	570.83	571.08	571.78	572.23	572.43	572.37	572.31	571.98	571.74	571.65	571.81
1942	571.58	571.13	569.98	572.33	572.74	573.23	573.34	573.40	573.16	573.04	572.73	572.50
1943	573.12	571.79	572.54	573.15	573.64	574.33	574.57	574.74	574.48	574.20	573.94	573.67
1944	572.90	572.54	572.21	573.12	573.80	573.98	574.10	573.79	573.49	573.66	573.19	572.80
1945	572.98	571.67	572.41	573.24	573.54	574.13	574.33	574.34	573.96	574.22	573.85	573.66
1946	573.84	571.87	571.99	573.86	573.68	574.04	574.25	574.12	573.69	573.38	573.21	572.80
1947	572.69	572.40	572.00	573.12	573.90	574.42	574.58	574.49	574.42	574.02	573.95	573.22
1948	573.42	573.06	573.30	573.97	574.10	574.32	574.29	574.04	573.83	573.42	573.00	572.78
1949	573.16	572.92	572.91	573.29	573.07	573.19	573.27	573.22	572.62	572.42	572.05	571.74
1950	572.17	572.73	571.89	573.24	573.82	573.62	573.69	573.68	573.62	573.42	573.20	573.17
1951	573.14	572.86	573.69	574.18	574.61	574.70	574.82	574.86	574.75	574.46	574.40	574.36
1952	575.11	574.40	574.99	575.06	575.50	575.80	575.80	575.60	575.50	575.20	574.47	574.25
1953	574.28	574.37	574.25	574.57	574.84	575.10	575.20	575.19	575.05	574.64	574.34	573.90
1954	573.62	572.21	573.71	574.32	574.80	574.64	574.89	574.80	574.60	574.50	574.72	574.40
1955	574.65	574.10	574.60	574.85	574.95	574.90	574.88	574.75	574.40	574.05	573.64	573.14
1956	573.24	570.66	571.62	573.13	574.08	574.18	574.27	574.35	574.35	573.88	573.46	572.90
1957	572.92	571.93	572.84	573.00	573.62	573.75	573.60	573.88	573.55	573.35	572.97	572.60
1958	572.96	570.83	571.72	571.92	572.55	572.67	572.77	572.92	572.74	572.56	572.26	571.68
1959	571.45	571.04	571.34	572.61	572.86	573.12	573.01	572.88	572.88	572.62	572.40	572.31
1960	572.74	571.66	572.50	573.32	573.46	573.96	574.28	574.32	574.30	574.06	573.50	572.96
1961	573.06	572.40	573.22	573.24	574.09	573.96	573.98	574.01	573.80	573.52	573.06	572.90
1962	573.08	571.50	572.04	573.09	573.13	573.19	573.33	573.18	573.06	572.88	572.49	572.36
1963	572.67	571.55	571.52	572.63	572.56	572.61	572.56	572.46	572.28	572.00	571.68	571.45
1964	571.55	570.45	570.38	571.53	572.04	572.10	571.95	571.92	571.85	571.58	571.25	570.90
1965	571.11	570.23	570.74	571.91	572.23	572.42	572.41	572.32	572.40	572.22	572.04	571.89
1966	572.53	572.05	572.01	572.74	573.17	573.21	573.32	573.16	572.96	572.48	572.19	572.20
1967	572.65	572.87	572.50	573.09	573.37	573.64	574.02	573.83	573.66	573.35	573.23	572.98

TABLE A-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	573.50	573.44	573.29	573.72	573.62	574.11	574.40	574.23	574.04	573.83	573.48	573.66
1969	573.72	574.10	573.82	573.95	574.49	574.85	575.02	575.31	574.98	574.58	574.23	573.98
1970	572.90	573.37	573.31	573.97	574.16	574.40	574.55	574.62	574.39	574.32	574.10	573.98
1971	574.16	573.13	574.10	574.37	574.53	574.78	574.90	574.81	574.84	574.60	574.27	574.04
1972	574.21	574.33	573.92	574.35	574.71	575.06	575.24	575.32	575.29	575.23	575.13	575.06
1973	575.31	575.49	575.22	575.99	575.88	576.06	576.39	576.14	575.91	575.60	575.11	575.08
1974	575.32	575.54	575.39	575.66	575.86	576.05	576.08	575.89	575.69	575.11	574.86	575.03
1975	574.82	575.13	575.22	575.28	575.41	575.50	575.74	575.49	575.76	575.30	574.86	574.46
1976	574.94	574.13	575.25	575.42	575.72	575.72	575.68	575.84	575.28	574.91	574.44	573.74

TABLE A-4

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1900	JAN	569.95	569.50	569.50	FEB	569.50	569.50	569.55	569.60	MAR	569.70	569.80	569.90	570.00
	APR	570.10	570.20	570.30	MAY	570.45	570.50	570.50	570.50	JUN	570.50	570.55	570.50	570.45
	JUL	570.45	570.45	570.40	AUG	570.40	570.35	570.35	570.40	SEP	570.30	570.20	570.05	569.85
	OCT	569.90	569.85	569.80	NOV	569.65	569.60	569.50	569.55	DEC	569.60	569.65	569.60	569.50
1901	JAN	569.40	569.40	569.45	FEB	569.35	569.25	569.05	568.85	MAR	568.80	568.80	568.95	569.05
	APR	569.25	569.30	569.30	MAY	569.30	569.30	569.30	569.45	JUN	569.60	569.65	569.80	569.90
	JUL	569.90	570.00	569.95	AUG	569.95	569.85	569.75	569.80	SEP	569.90	569.90	569.75	569.65
	OCT	569.60	569.45	569.40	NOV	569.30	569.25	569.20	569.20	DEC	569.20	569.15	569.20	569.25
1902	JAN	569.25	569.25	569.15	FEB	568.90	568.75	568.70	568.65	MAR	568.60	568.85	569.00	569.15
	APR	569.30	569.50	569.60	MAY	569.65	569.85	569.90	569.95	JUN	570.00	570.05	570.15	570.20
	JUL	570.40	570.75	570.75	AUG	571.00	570.95	570.85	570.70	SEP	570.55	570.40	570.35	570.40
	OCT	570.55	570.50	570.45	NOV	570.20	570.10	570.05	570.05	DEC	569.90	569.80	569.80	569.85
1903	JAN	569.85	569.80	569.65	FEB	569.55	569.75	569.95	569.70	MAR	569.70	570.20	570.40	570.50
	APR	570.55	570.85	571.30	MAY	571.20	571.15	571.10	571.05	JUN	571.05	571.10	571.10	571.10
	JUL	571.05	571.05	571.00	AUG	571.00	570.85	570.75	570.65	SEP	570.80	570.75	570.70	570.50
	OCT	570.40	570.40	570.35	NOV	570.00	569.85	569.80	569.75	DEC	569.75	569.60	569.50	569.40
1904	JAN	569.35	569.30	569.25	FEB	569.50	569.50	569.50	569.45	MAR	569.55	569.90	570.05	570.15
	APR	570.70	571.10	571.25	MAY	571.35	571.40	571.40	571.35	JUN	571.55	571.70	571.60	571.50
	JUL	571.45	571.50	571.50	AUG	571.35	571.20	571.10	571.10	SEP	571.05	571.00	570.90	570.80
	OCT	570.75	570.65	570.60	NOV	570.35	570.40	570.15	570.05	DEC	570.00	569.95	569.95	569.80
1905	JAN	569.70	569.60	569.50	FEB	569.45	569.35	569.25	569.20	MAR	569.15	569.10	569.10	569.30
	APR	569.60	569.70	569.85	MAY	570.20	570.30	570.55	570.70	JUN	570.75	570.95	571.10	571.25
	JUL	571.15	571.10	571.15	AUG	571.05	570.90	570.95	570.95	SEP	570.80	570.70	570.65	570.65
	OCT	570.55	570.50	570.35	NOV	570.05	570.05	570.00	570.00	DEC	570.00	570.00	570.05	569.95
1906	JAN	569.90	569.90	569.90	FEB	570.15	570.10	570.00	569.80	MAR	569.80	569.70	569.80	569.70
	APR	569.90	570.10	570.20	MAY	570.35	570.40	570.45	570.50	JUN	570.50	570.60	570.70	570.70
	JUL	570.70	570.75	570.75	AUG	570.70	570.70	570.70	570.75	SEP	570.65	570.50	570.45	570.40
	OCT	570.40	570.30	570.30	NOV	570.30	570.25	570.25	570.20	DEC	570.20	570.45	570.55	570.70

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		2	3	4		2	3	4		2	3	4
1907	JAN 570.45	570.75	571.05	571.10	FEB 570.85	570.70	570.50	570.45	MAR 570.35	570.25	570.20	570.4
	APR 570.75	570.80	570.80	570.75	MAY 570.85	570.95	570.90	571.00	JUN 571.15	571.30	571.40	571.4
	JUL 571.40	571.40	571.40	571.40	AUG 571.30	571.25	571.15	571.00	SEP 570.90	570.90	570.85	570.8
	OCT 570.85	570.85	570.80	570.70	NOV 570.70	570.65	570.50	570.45	DEC 570.40	570.35	570.35	570.4
1908	JAN 570.55	570.75	570.70	570.55	FEB 570.35	570.20	570.25	570.30	MAR 570.40	570.50	570.75	570.9
	APR 571.10	571.25	571.40	571.40	MAY 571.40	571.50	571.60	571.65	JUN 571.70	571.65	571.60	571.5
	JUL 571.50	571.45	571.35	571.40	AUG 571.35	571.25	571.25	571.20	SEP 571.05	570.85	570.80	570.7
	OCT 570.60	570.50	570.35	570.30	NOV 570.25	569.95	569.70	569.70	DEC 569.55	569.50	569.55	569.5
1909	JAN 569.40	569.55	569.50	569.45	FEB 569.45	569.45	569.50	569.55	MAR 569.80	569.90	569.85	569.8
	APR 569.90	570.00	570.15	570.25	MAY 570.45	570.75	571.10	571.10	JUN 571.15	571.35	571.30	571.3
	JUL 571.30	571.15	571.10	571.05	AUG 571.00	570.95	570.90	570.80	SEP 570.70	570.55	570.50	570.4
	OCT 570.20	570.05	569.85	569.80	NOV 569.70	569.75	569.70	569.75	DEC 569.75	569.60	569.50	569.5
1910	JAN 569.45	569.35	569.30	569.30	FEB 569.30	569.25	569.25	569.20	MAR 569.30	569.65	569.80	569.8
	APR 569.95	570.05	570.10	570.30	MAY 570.50	570.70	570.65	570.65	JUN 570.70	570.75	570.70	570.6
	JUL 570.55	570.50	570.50	570.45	AUG 570.45	570.35	570.35	570.25	SEP 570.20	570.20	570.10	570.0
	OCT 569.95	570.00	570.00	569.95	NOV 569.75	569.60	569.55	569.45	DEC 569.55	569.50	569.40	569.3
1911	JAN 569.25	569.10	569.15	569.05	FEB 569.15	569.15	569.15	569.15	MAR 569.10	569.10	569.10	569.1
	APR 569.30	569.50	569.60	569.85	MAY 569.90	569.90	569.90	569.95	JUN 569.95	570.00	570.00	570.0
	JUL 569.95	569.90	569.85	569.75	AUG 569.65	569.65	569.70	569.65	SEP 569.60	569.60	569.55	569.5
	OCT 569.60	569.60	569.60	569.55	NOV 569.45	569.25	569.15	569.30	DEC 569.15	569.30	569.60	569.6
1912	JAN 569.50	569.35	569.35	569.35	FEB 569.30	569.20	569.10	569.05	MAR 569.10	569.10	569.10	569.4
	APR 569.75	570.05	570.40	570.50	MAY 570.55	570.55	570.65	570.70	JUN 570.70	570.70	570.70	570.7
	JUL 570.70	570.60	570.60	570.60	AUG 570.60	570.50	570.55	570.55	SEP 570.55	570.60	570.55	570.4
	OCT 570.40	570.30	570.15	570.20	NOV 570.20	570.15	570.10	569.90	DEC 569.75	569.65	569.60	569.5
1913	JAN 569.60	570.05	570.20	570.65	FEB 570.60	570.50	570.50	570.45	MAR 570.35	570.20	570.25	570.4
	APR 571.65	572.05	572.15	572.10	MAY 572.15	572.10	572.05	572.00	JUN 572.00	572.00	571.90	571.8
	JUL 571.75	571.75	571.65	571.55	AUG 571.50	571.35	571.30	571.25	SEP 571.05	571.05	570.80	570.5
	OCT 570.60	570.60	570.50	570.35	NOV 570.25	570.20	570.25	570.35	DEC 570.45	570.30	570.05	570.2

TABLE A-4 (CONTINUED).

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		1	2	3	4	1	2	3	4	1	2	3	4
1914	JAN	570.20	570.15	570.10	570.05	FEB	569.95	569.85	569.80	569.75	MAR	569.60	569.50	569.45	569.50
	APR	569.95	570.15	570.25	570.30	MAY	570.50	570.70	571.10	571.15	JUN	571.15	571.15	571.10	571.00
	JUL	570.95	570.90	570.90	570.80	AUG	570.75	570.60	570.55	570.60	SEP	570.55	570.50	570.35	570.35
	OCT	570.20	570.10	570.20	570.20	NOV	569.80	569.70	569.55	569.50	DEC	569.50	569.60	569.35	569.30
1915	JAN	569.25	569.25	569.15	569.10	FEB	569.10	569.25	569.35	569.50	MAR	569.55	569.55	569.45	569.35
	APR	569.40	569.45	569.50	569.55	MAY	569.55	569.65	569.75	569.75	JUN	569.85	569.90	569.90	569.90
	JUL	569.95	570.00	570.10	570.15	AUG	570.20	570.30	570.35	570.40	SEP	570.30	570.25	570.25	570.25
	OCT	570.25	570.05	570.05	570.05	NOV	569.80	569.75	569.55	569.50	DEC	569.40	569.45	569.40	569.30
1916	JAN	569.50	569.80	569.85	569.85	FEB	570.10	570.15	570.10	570.05	MAR	569.90	569.85	569.90	569.95
	APR	570.25	570.40	570.50	570.65	MAY	570.75	570.85	570.95	571.00	JUN	571.20	571.30	571.40	571.40
	JUL	571.40	571.40	571.30	571.25	AUG	571.15	571.00	570.90	570.85	SEP	570.65	570.60	570.45	570.25
	OCT	570.20	570.10	570.00	569.90	NOV	569.80	569.80	569.80	569.60	DEC	569.60	569.60	569.55	569.60
1917	JAN	569.60	569.65	569.75	569.65	FEB	569.60	569.50	569.40	569.35	MAR	569.40	569.40	569.65	569.75
	APR	570.05	570.65	570.70	570.75	MAY	570.80	570.90	571.00	571.15	JUN	571.30	571.50	571.60	571.60
	JUL	571.75	571.85	571.95	571.95	AUG	571.85	571.70	571.60	571.50	SEP	571.45	571.45	571.35	571.20
	OCT	571.10	571.00	570.90	570.90	NOV	571.00	571.05	571.00	571.00	DEC	570.90	570.85	570.65	570.50
1918	JAN	570.40	570.15	569.90	569.80	FEB	569.70	569.60	569.60	569.85	MAR	569.95	570.15	570.35	570.50
	APR	570.40	570.45	570.25	570.15	MAY	570.00	570.00	570.25	570.35	JUN	570.45	570.55	570.55	570.60
	JUL	570.60	570.65	570.65	570.65	AUG	570.65	570.65	570.65	570.55	SEP	570.55	570.60	570.55	570.50
	OCT	570.40	570.40	570.30	570.35	NOV	570.35	570.30	570.20	570.15	DEC	570.00	570.10	570.30	570.40
1919	JAN	570.45	570.20	570.15	570.25	FEB	570.30	570.25	570.25	570.25	MAR	570.15	570.30	570.45	570.75
	APR	570.95	570.95	571.10	571.35	MAY	571.35	571.65	571.75	571.90	JUN	571.95	571.90	571.85	571.75
	JUL	571.70	571.60	571.55	571.45	AUG	571.35	571.35	571.20	571.15	SEP	571.05	570.95	570.85	570.75
	OCT	570.65	570.60	570.55	570.45	NOV	570.50	570.50	570.30	570.20	DEC	570.10	570.10	570.00	569.90
1920	JAN	569.65	569.50	569.40	569.30	FEB	569.20	568.95	568.80	568.75	MAR	568.70	568.65	568.85	569.10
	APR	569.20	569.40	569.65	570.00	MAY	570.20	570.30	570.35	570.40	JUN	570.40	570.40	570.50	570.65
	JUL	570.65	570.65	570.70	570.75	AUG	570.70	570.60	570.70	570.70	SEP	570.60	570.50	570.45	570.40
	OCT	570.30	570.20	570.15	570.10	NOV	570.05	570.00	570.00	570.00	DEC	570.05	570.10	570.00	569.95

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		1	2	3	4	1	2	3	4	1	2	3	4
1921	JAN	569.90	570.05	569.95	570.00	FEB	570.05	570.05	569.95	569.90	MAR	569.80	569.95	570.20	570.3
	APR	570.55	570.65	570.80	571.00	MAY	571.20	571.15	571.10	571.10	JUN	571.15	571.10	571.05	571.0
	JUL	571.05	571.00	571.00	570.80	AUG	570.70	570.60	570.55	570.50	SEP	570.40	570.35	570.30	570.1
	OCT	570.00	569.90	569.80	569.75	NOV	569.75	569.75	569.70	569.90	DEC	569.85	569.85	569.85	569.9
1922	JAN	569.75	569.65	569.55	569.45	FEB	569.35	569.30	569.20	569.20	MAR	569.25	569.20	569.35	569.5
	APR	569.90	570.20	570.45	570.60	MAY	570.65	570.70	570.70	570.85	JUN	570.90	570.85	570.90	570.9
	JUL	570.85	570.80	570.80	570.70	AUG	570.70	570.65	570.50	570.40	SEP	570.40	570.40	570.45	570.3
	OCT	570.15	570.15	569.95	569.75	NOV	569.65	569.60	569.50	569.35	DEC	569.20	569.20	569.15	569.0
1923	JAN	569.20	569.30	569.20	569.20	FEB	569.10	568.95	568.85	568.80	MAR	568.75	568.85	569.00	569.2
	APR	569.30	569.40	569.55	569.60	MAY	569.65	569.70	569.80	570.00	JUN	570.05	570.10	570.10	570.0
	JUL	570.05	570.10	570.05	570.05	AUG	569.95	569.90	569.80	569.65	SEP	569.55	569.60	569.55	569.5
	OCT	569.55	569.35	569.25	569.20	NOV	569.10	569.10	569.05	569.00	DEC	568.95	569.20	569.25	569.4
1924	JAN	569.50	569.35	569.40	569.35	FEB	569.40	569.40	569.40	569.30	MAR	569.15	569.20	569.20	569.2
	APR	569.50	569.70	569.85	570.00	MAY	570.05	570.20	570.25	570.25	JUN	570.25	570.30	570.35	570.4
	JUL	570.60	570.55	570.50	570.45	AUG	570.40	570.35	570.25	570.10	SEP	570.00	570.00	569.95	569.9
	OCT	569.65	569.85	569.80	569.65	NOV	569.45	569.35	569.20	568.95	DEC	568.95	568.85	568.85	568.8
1925	JAN	568.80	568.75	568.65	568.60	FEB	568.50	568.45	568.50	568.60	MAR	568.75	568.80	568.90	569.1
	APR	569.30	569.30	569.30	569.40	MAY	569.40	569.40	569.35	569.35	JUN	569.25	569.25	569.20	569.2
	JUL	569.25	569.20	569.20	569.10	AUG	569.15	569.10	569.20	569.10	SEP	569.00	568.90	569.10	568.9
	OCT	568.95	568.80	568.60	568.55	NOV	568.55	568.45	568.50	568.55	DEC	568.60	568.55	568.50	568.4
1926	JAN	568.15	568.15	568.10	568.05	FEB	568.05	568.00	567.95	567.90	MAR	567.90	568.00	568.00	568.0
	APR	568.20	568.80	569.00	569.00	MAY	569.10	569.20	569.20	569.20	JUN	569.20	569.22	569.37	569.3
	JUL	569.34	569.30	569.26	569.20	AUG	569.25	569.30	569.43	569.41	SEP	569.27	569.37	569.39	569.5
	OCT	569.74	569.85	569.77	569.69	NOV	569.70	569.67	569.62	569.59	DEC	569.64	569.64	569.55	569.4
1927	JAN	569.42	569.31	569.16	569.10	FEB	569.00	569.05	569.01	569.00	MAR	568.98	568.94	569.06	569.4
	APR	569.60	569.75	569.76	569.81	MAY	569.82	569.90	570.00	570.16	JUN	570.24	570.29	570.24	570.2
	JUL	570.24	570.20	570.22	570.26	AUG	570.26	570.15	570.09	569.98	SEP	569.85	569.84	569.81	569.5
	OCT	569.54	569.51	569.41	569.27	NOV	569.24	569.12	569.08	569.23	DEC	569.65	569.65	569.85	569.9

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		2	3	4		2	3	4		2	3	4
1928	JAN 569.90	569.87	569.95	569.87	FEB 569.84	569.83	569.86	569.85	MAR 569.76	569.60	569.52	569.45
	APR 569.65	569.82	569.91	570.04	MAY 570.07	570.08	570.09	570.19	JUN 570.20	570.41	570.45	570.59
	JUL 570.70	570.70	570.74	570.81	AUG 570.71	570.77	570.66	570.55	SEP 570.44	570.30	570.25	570.08
	OCT 569.97	569.94	569.95	569.99	NOV 569.84	569.88	569.85	569.90	DEC 569.92	569.92	569.98	570.00
1929	JAN 569.99	569.88	569.89	570.25	FEB 570.20	570.19	570.16	570.12	MAR 570.25	570.41	570.56	570.90
	APR 571.10	571.46	571.65	571.92	MAY 572.17	572.26	572.36	572.43	JUN 572.42	572.32	572.32	572.29
	JUL 572.25	572.30	572.26	572.14	AUG 572.10	571.92	571.83	571.72	SEP 571.60	571.58	571.41	571.26
	OCT 571.26	571.06	570.94	570.96	NOV 570.95	570.88	570.95	570.95	DEC 570.82	570.75	570.89	571.00
1930	JAN 570.88	571.40	571.73	571.66	FEB 571.48	571.35	571.25	571.19	MAR 571.50	571.59	571.61	571.68
	APR 571.85	571.90	572.01	572.11	MAY 572.13	572.08	572.03	571.99	JUN 571.86	571.84	571.82	571.81
	JUL 571.74	571.62	571.52	571.48	AUG 571.34	571.23	571.04	570.96	SEP 570.93	570.80	570.72	570.64
	OCT 570.53	570.42	570.41	570.20	NOV 570.14	569.99	570.02	569.85	DEC 569.73	569.83	569.84	569.74
1931	JAN 569.57	569.66	569.54	569.46	FEB 569.38	569.27	569.15	569.13	MAR 568.99	568.88	568.76	568.76
	APR 568.97	569.12	569.20	569.32	MAY 569.40	569.50	569.54	569.55	JUN 569.60	569.71	569.73	569.72
	JUL 569.74	569.81	569.77	569.78	AUG 569.71	569.68	569.66	569.52	SEP 569.40	569.34	569.34	569.29
	OCT 569.19	569.17	569.06	568.94	NOV 568.88	568.72	568.85	568.95	DEC 568.79	568.76	568.75	568.88
1932	JAN 569.05	569.21	569.31	569.61	FEB 569.65	569.62	569.70	569.74	MAR 569.71	569.58	569.51	569.46
	APR 569.49	569.61	569.68	569.72	MAY 569.70	569.90	569.97	569.92	JUN 569.99	570.00	569.96	569.86
	JUL 569.85	569.83	569.84	569.82	AUG 569.72	569.69	569.57	569.46	SEP 569.44	569.37	569.27	569.13
	OCT 568.97	568.80	568.74	568.72	NOV 568.66	568.68	568.65	568.60	DEC 568.60	568.60	568.45	568.43
1933	JAN 568.74	568.79	568.72	568.86	FEB 568.91	568.81	568.73	568.64	MAR 568.70	568.75	568.94	569.17
	APR 569.32	569.57	569.79	569.92	MAY 569.90	570.07	570.22	570.28	JUN 570.25	570.24	570.12	570.02
	JUL 569.99	569.94	569.86	569.76	AUG 569.66	569.64	569.57	569.39	SEP 569.28	569.20	569.14	568.94
	OCT 568.94	568.87	568.69	568.61	NOV 568.48	568.38	568.18	568.21	DEC 568.14	568.20	568.21	568.24
1934	JAN 568.18	568.19	568.06	567.97	FEB 567.85	567.78	567.70	567.62	MAR 567.56	567.62	567.62	567.70
	APR 567.81	568.07	568.27	568.42	MAY 568.41	568.42	568.44	568.44	JUN 568.46	568.45	568.42	568.49
	JUL 568.52	568.50	568.48	568.42	AUG 568.35	568.42	568.46	568.31	SEP 568.22	568.23	568.27	568.28
	OCT 568.23	568.08	567.92	567.90	NOV 567.74	567.70	567.56	567.67	DEC 567.66	567.67	567.56	567.62

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1935	JAN	567.60	567.65	567.70	FEB	567.65	567.58	567.57	MAR	567.62	567.74	567.90	568.05
	APR	568.16	568.24	568.30	MAY	568.37	568.60	568.70	JUN	568.77	568.82	568.80	568.89
	JUL	568.89	568.94	568.95	AUG	568.95	569.06	569.03	SEP	568.73	568.65	568.63	568.54
	OCT	568.37	568.21	568.22	NOV	568.19	568.13	568.21	DEC	568.04	568.05	568.20	568.14
1936	JAN	568.00	567.89	567.76	FEB	567.54	567.52	567.53	MAR	567.79	567.94	568.12	568.40
	APR	568.78	568.90	568.99	MAY	569.15	569.25	569.27	JUN	569.25	569.28	569.26	569.19
	JUL	569.21	569.20	569.18	AUG	569.01	568.93	568.88	SEP	568.76	568.71	568.79	568.67
	OCT	568.70	568.68	568.62	NOV	568.55	568.55	568.46	DEC	568.24	568.25	568.19	568.14
1937	JAN	568.30	568.43	568.74	FEB	569.30	569.36	569.37	MAR	569.35	569.32	569.29	569.30
	APR	569.29	569.38	569.60	MAY	570.28	570.27	570.26	JUN	570.31	570.28	570.37	570.66
	JUL	570.77	570.72	570.78	AUG	570.59	570.54	570.51	SEP	570.28	570.12	569.87	569.66
	OCT	569.56	569.41	569.31	NOV	569.19	569.02	569.02	DEC	568.80	568.64	568.67	568.70
1938	JAN	568.77	568.75	568.75	FEB	568.59	568.68	569.04	MAR	569.46	569.45	569.42	569.62
	APR	569.88	570.12	570.25	MAY	570.21	570.19	570.16	JUN	570.32	570.30	570.40	570.36
	JUL	570.38	570.37	570.37	AUG	570.40	570.46	570.38	SEP	570.10	569.98	570.07	569.95
	OCT	569.87	569.70	569.70	NOV	569.49	569.39	569.30	DEC	569.24	569.25	569.20	569.15
1939	JAN	568.99	569.05	569.17	FEB	569.12	569.03	568.98	MAR	569.27	569.40	569.54	569.47
	APR	569.67	569.74	570.02	MAY	570.44	570.44	570.42	JUN	570.41	570.47	570.44	570.45
	JUL	570.49	570.50	570.38	AUG	570.42	570.33	570.30	SEP	570.09	570.00	569.95	569.76
	OCT	569.74	569.70	569.53	NOV	569.46	569.30	569.29	DEC	569.22	569.21	569.17	569.11
1940	JAN	568.96	568.97	568.84	FEB	568.63	568.60	568.62	MAR	568.71	568.76	568.81	568.85
	APR	569.00	569.30	569.53	MAY	569.85	569.89	569.93	JUN	570.19	570.26	570.30	570.36
	JUL	570.40	570.36	570.34	AUG	570.25	570.20	570.15	SEP	570.18	570.12	569.98	569.93
	OCT	569.89	569.79	569.76	NOV	569.59	569.44	569.34	DEC	569.32	569.28	569.46	569.56
1941	JAN	569.75	569.82	569.80	FEB	569.58	569.47	569.40	MAR	569.16	569.20	569.14	569.16
	APR	569.18	569.36	569.36	MAY	569.46	569.48	569.54	JUN	569.61	569.66	569.72	569.78
	JUL	569.72	569.64	569.67	AUG	569.64	569.53	569.44	SEP	569.33	569.28	569.15	569.07
	OCT	568.90	568.98	568.86	NOV	568.78	568.70	568.70	DEC	568.70	568.64	568.56	568.69

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1942	JAN 568.76	568.52	568.52	568.53	FEB 568.59	568.78	568.75	568.77	MAR 568.67	568.63	568.94	569.27
	APR 569.48	569.75	570.04	570.10	MAY 570.10	570.12	570.21	570.33	JUN 570.49	570.57	570.64	570.64
	JUL 570.60	570.58	570.55	570.63	AUG 570.66	570.62	570.60	570.46	SEP 570.40	570.37	570.30	570.18
	OCT 570.11	570.05	570.15	570.04	NOV 569.96	569.93	569.84	570.05	DEC 570.00	569.87	569.80	569.75
1943	JAN 570.19	570.31	570.22	570.11	FEB 570.00	569.97	570.00	569.94	MAR 570.01	569.95	570.05	570.33
	APR 570.41	570.48	570.52	570.76	MAY 570.96	571.17	571.46	571.89	JUN 572.04	572.14	572.15	572.13
	JUL 572.05	572.14	572.16	572.14	AUG 572.08	572.01	571.91	571.74	SEP 571.65	571.56	571.45	571.31
	OCT 571.22	571.09	571.01	571.00	NOV 570.94	570.85	570.80	570.75	DEC 570.68	570.63	570.51	570.35
1944	JAN 570.34	570.18	570.02	569.84	FEB 569.85	569.84	569.85	569.81	MAR 569.89	569.91	569.92	570.06
	APR 570.21	570.40	570.93	571.13	MAY 571.18	571.26	571.35	571.48	JUN 571.50	571.47	571.47	571.49
	JUL 571.50	571.40	571.31	571.16	AUG 571.07	571.06	571.00	570.90	SEP 570.76	570.69	570.65	570.57
	OCT 570.57	570.46	570.35	570.23	NOV 570.13	570.07	570.14	570.08	DEC 569.97	569.93	569.92	569.86
1945	JAN 569.87	569.86	569.83	569.65	FEB 569.55	569.46	569.44	569.43	MAR 569.64	569.94	570.06	570.44
	APR 570.57	570.86	570.85	570.88	MAY 570.92	571.00	571.10	571.44	JUN 571.46	571.51	571.57	571.80
	JUL 571.85	571.78	571.77	571.76	AUG 571.74	571.66	571.59	571.48	SEP 571.28	571.20	571.15	571.14
	OCT 571.36	571.48	571.29	571.30	NOV 571.20	571.06	570.95	570.88	DEC 570.93	570.86	570.69	570.64
1946	JAN 570.63	570.76	570.82	570.72	FEB 570.49	570.33	570.29	570.26	MAR 570.24	570.44	570.61	570.76
	APR 570.83	570.79	570.77	570.80	MAY 570.78	570.78	570.91	571.04	JUN 571.18	571.26	571.42	571.66
	JUL 571.65	571.60	571.52	571.51	AUG 571.43	571.30	571.19	571.10	SEP 570.89	570.81	570.73	570.65
	OCT 570.52	570.42	570.33	570.31	NOV 570.28	570.19	570.13	569.93	DEC 569.94	569.84	569.80	569.72
1947	JAN 569.80	569.70	569.69	569.64	FEB 569.91	569.86	569.76	569.63	MAR 569.57	569.53	569.62	569.75
	APR 570.02	570.62	570.87	571.29	MAY 571.47	571.72	571.80	571.99	JUN 572.11	572.45	572.51	572.41
	JUL 572.33	572.20	572.19	572.10	AUG 572.02	571.96	571.91	571.87	SEP 571.87	571.83	571.62	571.50
	OCT 571.26	571.15	571.10	571.06	NOV 571.05	570.87	570.78	570.66	DEC 570.53	570.60	570.53	570.59
1948	JAN 570.62	570.61	570.51	570.40	FEB 570.29	570.17	570.17	570.27	MAR 570.45	570.48	570.48	571.07
	APR 571.30	571.42	571.55	571.57	MAY 571.63	571.74	572.02	572.05	JUN 571.99	571.99	571.89	571.92
	JUL 571.97	571.86	571.85	571.77	AUG 571.64	571.49	571.45	571.41	SEP 571.29	571.18	571.07	570.90
	OCT 570.76	570.54	570.46	570.40	NOV 570.34	570.28	570.17	570.19	DEC 570.15	570.01	570.02	569.98

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1949	JAN	569.96	570.00	570.07	FEB	570.27	570.26	570.26	MAR	570.58	570.56	570.47
	APR	570.57	570.62	570.65	MAY	570.72	570.72	570.65	JUN	570.83	570.74	570.74
	JUL	570.78	570.72	570.65	AUG	570.58	570.43	570.41	SEP	570.17	570.12	569.96
	OCT	569.75	569.74	569.75	NOV	569.45	569.28	569.26	DEC	569.19	569.08	569.09
1950	JAN	569.34	569.72	569.90	FEB	570.33	570.30	570.60	MAR	570.45	570.40	570.46
	APR	570.94	571.28	57[illegible].29	MAY	571.51	571.43	571.40	JUN	571.30	571.31	571.32
	JUL	571.15	571.10	571.00	AUG	571.00	570.84	570.72	SEP	570.69	570.64	570.65
	OCT	570.42	570.33	570.40	NOV	570.27	570.16	570.09	DEC	570.30	570.61	570.67
1951	JAN	570.44	570.58	570.59	FEB	570.56	570.44	570.55	MAR	570.96	571.16	571.31
	APR	571.61	571.76	571.87	MAY	571.97	571.95	572.08	JUN	572.06	572.01	572.02
	JUL	572.04	571.95	571.92	AUG	571.82	571.72	571.68	SEP	571.45	571.30	571.28
	OCT	571.02	571.01	570.90	NOV	570.80	570.80	570.89	DEC	570.86	570.98	570.97
1952	JAN	571.06	571.27	571.29	FEB	571.89	572.03	572.13	MAR	572.05	572.03	572.28
	APR	572.45	572.52	572.75	MAY	572.78	572.69	572.71	JUN	572.82	572.78	572.72
	JUL	572.62	572.57	572.49	AUG	572.31	572.22	572.22	SEP	572.09	572.01	571.94
	OCT	571.70	571.50	571.35	NOV	570.96	570.84	570.85	DEC	570.85	570.91	570.90
1953	JAN	570.94	571.01	571.02	FEB	571.16	571.11	571.08	MAR	571.09	571.18	571.28
	APR	571.48	571.52	571.54	MAY	571.62	571.67	571.72	JUN	572.05	572.11	572.12
	JUL	572.09	572.07	571.98	AUG	571.92	571.96	571.86	SEP	571.68	571.58	571.34
	OCT	571.16	571.05	570.97	NOV	570.77	570.72	570.65	DEC	570.65	570.52	570.57
1954	JAN	570.36	570.40	570.30	FEB	570.23	570.08	570.05	MAR	570.47	570.56	570.64
	APR	571.12	571.27	571.51	MAY	571.92	571.91	571.87	JUN	571.75	571.77	571.76
	JUL	571.71	571.67	571.63	AUG	571.51	571.44	571.33	SEP	571.28	571.20	571.13
	OCT	570.95	570.98	571.29	NOV	571.44	571.37	571.31	DEC	571.29	571.21	571.24
1955	JAN	571.29	571.62	571.58	FEB	571.31	571.22	571.16	MAR	571.41	571.67	571.85
	APR	572.01	571.97	572.05	MAY	572.27	572.17	572.07	JUN	572.05	572.02	571.98
	JUL	571.82	571.82	571.69	AUG	571.60	571.60	571.60	SEP	571.36	571.22	571.12
	OCT	570.90	570.90	570.96	NOV	570.66	570.51	570.46	DEC	570.34	570.38	570.25

YEAR	QUARTER 4			
1949	MAR	570.38		
	JUN	570.76		
	SEP	569.81		
	DEC	569.20		
1950	MAR	570.56		
	JUN	571.21		
	SEP	570.51		
	DEC	570.54		
1951	MAR	571.41		
	JUN	572.05		
	SEP	571.16		
	DEC	570.95		
1952	MAR	572.40		
	JUN	572.61		
	SEP	571.86		
	DEC	570.97		
1953	MAR	571.36		
	JUN	572.07		
	SEP	571.29		
	DEC	570.41		
1954	MAR	570.72		
	JUN	571.76		
	SEP	570.96		
	DEC	571.17		
1955	MAR	571.94		
	JUN	571.91		
	SEP	571.01		
	DEC	570.21		

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1956	JAN 570.16	570.21	570.00	569.67	FEB 569.50	569.40	569.37	569.34	MAR 569.49	569.86	570.01	570.09
	APR 570.25	570.49	570.56	570.55	MAY 570.81	571.06	571.58	571.61	JUN 571.60	571.60	571.56	571.61
	JUL 571.57	571.56	571.58	571.60	AUG 571.48	571.58	571.57	571.43	SEP 571.48	571.34	571.23	571.01
	OCT 570.85	570.69	570.60	570.55	NOV 570.48	570.33	570.12	570.03	DEC 569.91	570.04	570.07	570.09
1957	JAN 570.01	569.92	569.78	569.82	FEB 569.78	569.72	569.81	569.76	MAR 569.90	569.93	569.95	570.02
	APR 570.07	570.50	570.72	570.83	MAY 570.96	570.88	570.95	571.09	JUN 571.06	571.03	571.05	571.04
	JUL 571.21	571.30	571.38	571.30	AUG 571.17	571.00	570.93	570.76	SEP 570.67	570.49	570.55	570.55
	OCT 570.36	570.17	570.06	570.01	NOV 569.94	569.74	569.74	569.66	DEC 569.67	569.73	569.72	569.93
1958	JAN 570.05	569.94	569.90	569.78	FEB 569.61	569.40	569.31	569.20	MAR 569.25	569.35	569.38	569.41
	APR 569.46	569.55	569.58	569.64	MAY 569.67	569.74	569.77	569.78	JUN 569.77	569.85	569.92	569.95
	JUL 570.00	570.09	570.22	570.19	AUG 570.15	570.19	570.23	570.10	SEP 569.99	569.95	569.87	569.95
	OCT 569.82	569.60	569.49	569.45	NOV 569.38	569.14	569.21	569.24	DEC 569.09	568.98	568.86	568.87
1959	JAN 568.85	568.68	568.64	568.91	FEB 568.99	569.02	569.23	569.32	MAR 569.35	569.50	569.56	569.66
	APR 569.87	570.13	570.18	570.15	MAY 570.42	570.48	570.56	570.60	JUN 570.63	570.60	570.46	570.38
	JUL 570.40	570.29	570.23	570.18	AUG 570.15	570.06	569.94	569.95	SEP 569.96	569.82	569.64	569.43
	OCT 569.53	569.75	569.56	569.46	NOV 569.44	569.37	569.43	569.36	DEC 569.35	569.30	569.60	569.70
1960	JAN 569.81	569.72	569.97	570.02	FEB 570.00	569.93	570.04	570.03	MAR 570.04	570.03	569.98	569.99
	APR 570.17	570.49	570.58	570.70	MAY 570.77	570.84	570.97	571.06	JUN 571.10	571.11	571.33	571.35
	JUL 571.36	571.33	571.30	571.29	AUG 571.29	571.30	571.28	571.27	SEP 571.21	571.14	570.96	570.94
	OCT 570.82	570.63	570.60	570.41	NOV 570.31	570.15	570.12	570.10	DEC 570.06	569.92	569.76	569.72
1961	JAN 569.67	569.63	569.67	569.60	FEB 569.52	569.48	569.51	569.65	MAR 569.91	570.14	570.28	570.45
	APR 570.50	570.58	570.76	571.05	MAY 571.52	571.59	571.60	571.56	JUN 571.48	571.54	571.54	571.51
	JUL 571.45	571.33	571.31	571.30	AUG 571.33	571.32	571.19	571.14	SEP 571.12	571.13	570.96	570.82
	OCT 570.68	570.51	570.39	570.30	NOV 570.12	569.97	569.97	569.99	DEC 569.91	569.65	569.78	569.80
1962	JAN 569.63	569.50	569.50	569.51	FEB 569.58	569.55	569.47	569.47	MAR 569.55	569.64	569.80	570.02
	APR 570.13	570.20	570.25	570.26	MAY 570.30	570.34	570.32	570.32	JUN 570.31	570.35	570.45	570.47
	JUL 570.44	570.39	570.34	570.38	AUG 570.27	570.34	570.22	570.17	SEP 570.12	570.01	569.95	569.81
	OCT 569.86	569.91	569.88	569.79	NOV 569.61	569.65	569.78	569.65	DEC 569.63	569.68	569.54	569.46

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		2	3	4		2	3	4		2	3	4
1963	JAN 569.38	569.32	569.20	569.10	FEB 569.06	569.02	568.95	568.92	MAR 568.77	568.95	569.20	569.46
	APR 569.70	569.83	569.77	569.96	MAY 570.05	570.07	570.06	570.04	JUN 570.04	570.02	570.03	569.91
	JUL 569.88	569.72	569.72	569.73	AUG 569.72	569.62	569.63	569.54	SEP 569.48	569.41	569.34	569.25
	OCT 569.16	569.03	569.01	569.00	NOV 568.92	568.86	568.77	568.77	DEC 568.71	568.65	568.55	568.51
1964	JAN 568.44	568.49	568.52	568.51	FEB 568.51	568.60	568.60	568.62	MAR 568.53	568.72	568.95	569.02
	APR 569.15	569.40	569.40	569.52	MAY 569.72	569.72	569.77	569.72	JUN 569.65	569.67	569.66	569.66
	JUL 569.57	569.52	569.50	569.48	AUG 569.35	569.32	569.22	569.26	SEP 569.26	569.14	569.00	568.96
	OCT 568.84	568.63	568.52	568.42	NOV 568.44	568.38	568.34	568.20	DEC 568.23	568.26	568.26	568.26
1965	JAN 568.36	568.49	568.51	568.55	FEB 568.50	568.48	568.72	568.79	MAR 568.84	569.14	569.26	569.28
	APR 569.31	569.42	569.56	569.68	MAY 569.76	569.90	569.88	569.86	JUN 569.87	569.91	569.83	569.80
	JUL 569.76	569.76	569.67	569.59	AUG 569.57	569.55	569.53	569.49	SEP 569.43	569.42	569.43	569.42
	OCT 569.33	569.18	569.16	569.30	NOV 569.12	569.13	569.13	569.14	DEC 569.04	569.07	569.20	569.25
1966	JAN 569.41	569.46	569.37	569.40	FEB 569.30	569.32	569.49	569.50	MAR 569.53	569.67	569.78	569.88
	APR 569.97	570.00	570.01	570.14	MAY 570.35	570.33	570.46	570.51	JUN 570.43	570.42	570.56	570.57
	JUL 570.50	570.45	570.47	570.36	AUG 570.33	570.25	570.28	570.22	SEP 570.17	570.06	569.92	569.86
	OCT 569.71	569.46	569.40	569.30	NOV 569.20	569.35	569.45	569.42	DEC 569.45	569.74	570.07	570.10
1967	JAN 569.95	569.88	569.83	569.76	FEB 569.89	569.94	569.84	569.83	MAR 569.78	569.80	569.94	570.04
	APR 570.21	570.45	570.54	570.63	MAY 570.63	570.81	570.96	570.93	JUN 570.86	570.85	570.86	570.92
	JUL 570.98	570.96	570.98	570.91	AUG 570.90	570.88	570.79	570.70	SEP 570.64	570.56	570.42	570.43
	OCT 570.40	570.37	570.32	570.31	NOV 570.23	570.21	570.23	570.25	DEC 570.21	570.32	570.39	570.59
1968	JAN 570.56	570.50	570.58	570.52	FEB 570.75	571.04	570.92	570.82	MAR 570.76	570.70	570.72	570.96
	APR 571.04	571.20	571.14	571.20	MAY 571.08	571.06	571.13	571.20	JUN 571.41	571.40	571.37	571.25
	JUL 571.52	571.46	571.42	571.40	AUG 571.34	571.38	571.28	571.32	SEP 571.13	571.08	571.02	570.93
	OCT 570.77	570.65	570.58	570.49	NOV 570.40	570.37	570.30	570.32	DEC 570.50	570.55	570.49	570.36
1969	JAN 570.65	570.54	570.46	570.61	FEB 570.86	571.04	571.03	570.98	MAR 570.95	570.88	570.82	570.86
	APR 571.00	571.33	571.43	571.80	MAY 571.80	571.80	571.96	572.27	JUN 572.25	572.27	572.32	572.33
	JUL 572.32	572.53	572.52	572.59	AUG 572.57	572.42	572.33	572.25	SEP 572.08	571.98	571.74	571.67
	OCT 571.60	571.46	571.41	571.20	NOV 571.05	571.08	570.90	571.06	DEC 571.00	571.05	571.10	571.05

TABLE A-4 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1970	JAN 570.95	570.64	570.54	570.46	FEB 570.40	570.52	570.51	570.42	MAR 570.44	570.60	570.61	570.73
	APR 570.81	571.02	571.13	571.24	MAY 571.34	571.31	571.40	571.51	JUN 571.52	571.53	571.56	571.59
	JUL 571.61	571.54	571.64	571.68	AUG 571.68	571.57	571.46	571.37	SEP 571.28	571.18	571.17	571.24
	OCT 571.14	571.02	571.10	571.00	NOV 571.02	571.04	570.97	570.76	DEC 570.92	570.85	571.01	571.00
1971	JAN 570.99	570.92	570.92	570.76	FEB 570.64	570.66	570.68	570.88	MAR 571.06	571.24	571.28	571.40
	APR 571.46	571.49	571.56	571.58	MAY 571.59	571.64	571.65	571.70	JUN 571.78	571.84	571.86	571.82
	JUL 571.82	571.75	571.66	571.59	AUG 571.62	571.54	571.53	571.48	SEP 571.56	571.49	571.45	571.42
	OCT 571.44	571.16	571.12	571.17	NOV 571.06	570.80	570.78	570.76	DEC 570.76	570.79	570.80	570.86
1972	JAN 571.10	570.98	570.94	570.92	FEB 570.86	570.86	570.87	570.90	MAR 570.96	571.14	571.30	571.46
	APR 571.52	571.50	571.68	572.02	MAY 572.08	572.17	572.24	572.25	JUN 572.23	572.20	572.17	572.50
	JUL 572.44	572.40	572.42	572.46	AUG 572.33	572.26	572.23	572.24	SEP 572.17	572.10	572.02	572.05
	OCT 572.20	572.11	571.94	571.84	NOV 571.88	572.02	572.23	572.20	DEC 572.15	572.30	572.36	572.41
1973	JAN 572.41	572.48	572.36	572.38	FEB 572.51	572.56	572.49	572.41	MAR 572.31	572.44	572.82	573.11
	APR 573.23	573.34	573.24	573.20	MAY 573.28	573.24	573.22	573.22	JUN 573.28	573.49	573.53	573.40
	JUL 573.49	573.49	573.32	573.11	AUG 573.20	573.04	573.00	572.90	SEP 572.83	572.68	572.47	572.27
	OCT 572.30	572.28	572.16	571.94	NOV 571.98	571.78	571.80	571.72	DEC 571.80	571.82	571.87	571.77
1974	JAN 571.96	571.93	571.82	572.09	FEB 572.24	572.39	572.34	572.34	MAR 572.44	572.86	572.96	572.93
	APR 573.00	573.26	573.22	573.17	MAY 573.08	573.12	573.22	573.31	JUN 573.27	573.24	573.21	573.24
	JUL 573.19	573.14	573.06	572.91	AUG 572.84	572.76	572.72	572.65	SEP 572.50	572.40	572.24	572.16
	OCT 572.17	571.86	571.84	571.66	NOV 571.62	571.74	571.56	571.68	DEC 571.78	571.85	571.80	571.86
1975	JAN 571.90	571.94	571.94	571.90	FEB 572.08	571.98	571.96	572.02	MAR 572.35	572.44	572.45	572.56
	APR 572.58	572.54	572.49	572.54	MAY 572.58	572.62	572.58	572.58	JUN 572.62	572.71	572.74	572.76
	JUL 572.75	572.66	572.56	572.50	AUG 572.38	572.37	572.32	572.30	SEP 572.66	572.50	572.37	572.36
	OCT 572.28	572.18	572.00	572.07	NOV 571.87	571.89	571.74	571.69	DEC 571.58	571.70	571.76	571.76
1976	JAN 571.82	571.65	571.68	571.66	FEB 571.62	571.43	571.47	572.01	MAR 572.33	572.79	572.86	572.84
	APR 572.90	572.88	572.79	572.79	MAY 572.88	572.90	572.91	572.90	JUN 572.90	572.82	572.76	572.75
	JUL 572.88	572.74	572.81	572.76	AUG 572.74	572.64	572.58	572.51	SEP 572.30	572.15	572.10	572.02
	OCT 571.98	571.96	571.65	571.52	NOV 571.80	571.32	571.15	570.97	DEC 570.93	570.96	570.96	570.96

TABLE A-5

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1900	JAN 243.17	243.27	243.32	243.37	FEB 243.32	243.37	243.52	243.62	MAR 243.77	243.82	243.87	243.82
	APR 243.97	244.27	244.52	244.72	MAY 244.77	244.82	244.77	244.82	JUN 244.72	244.77	244.77	244.72
	JUL 244.62	244.57	244.62	244.57	AUG 244.47	244.42	244.42	244.27	SEP 244.17	244.12	243.92	243.82
	OCT 243.77	243.67	243.57	243.42	NOV 243.37	243.32	243.17	243.27	DEC 243.52	243.57	243.67	243.62
1901	JAN 243.47	243.37	243.47	243.47	FEB 243.47	243.47	243.27	243.12	MAR 243.07	242.97	243.02	243.22
	APR 243.62	244.02	244.17	244.57	MAY 244.77	244.72	244.67	244.62	JUN 244.57	244.77	244.77	244.82
	JUL 244.77	244.72	244.62	244.52	AUG 244.47	244.42	244.27	244.17	SEP 244.12	244.02	243.97	243.82
	OCT 243.77	243.57	243.42	243.37	NOV 243.22	243.07	243.02	243.02	DEC 242.92	242.92	243.07	243.32
1902	JAN 243.32	243.22	243.22	243.27	FEB 243.32	243.22	243.22	243.17	MAR 243.17	243.57	243.87	244.12
	APR 244.17	244.27	244.37	244.32	MAY 244.32	244.32	244.32	244.27	JUN 244.32	244.32	244.32	244.37
	JUL 244.47	244.77	244.82	244.92	AUG 244.97	245.02	244.92	244.82	SEP 244.77	244.62	244.52	244.42
	OCT 244.32	244.32	244.17	244.07	NOV 243.97	243.92	243.92	243.87	DEC 243.82	243.72	243.67	243.62
1903	JAN 243.62	243.62	243.52	243.57	FEB 243.47	243.67	243.77	243.67	MAR 243.82	244.02	244.47	244.82
	APR 244.97	245.37	245.52	245.47	MAY 245.57	245.47	245.47	245.37	JUN 245.32	245.17	245.27	245.27
	JUL 245.37	245.37	245.32	245.27	AUG 245.37	245.32	245.22	245.02	SEP 245.02	244.97	244.92	244.67
	OCT 244.52	244.47	244.52	244.47	NOV 244.37	244.22	244.12	244.07	DEC 244.02	243.92	243.82	243.72
1904	JAN 243.67	243.52	243.42	243.37	FEB 243.47	243.57	243.62	243.72	MAR 243.87	243.92	244.07	244.27
	APR 244.87	245.27	245.52	245.77	MAY 245.92	246.12	246.17	246.32	JUN 246.42	246.57	246.57	246.57
	JUL 246.57	246.57	246.57	246.57	AUG 246.47	246.37	246.27	246.32	SEP 246.17	246.17	245.97	245.77
	OCT 245.67	245.67	245.57	245.47	NOV 245.37	245.22	244.97	244.87	DEC 244.67	244.52	244.42	244.37
1905	JAN 244.32	244.57	244.47	244.42	FEB 244.37	244.17	243.97	243.92	MAR 243.87	243.87	243.82	243.92
	APR 244.27	244.62	244.77	244.82	MAY 244.82	245.02	245.07	245.07	JUN 245.17	245.27	245.42	245.57
	JUL 245.62	245.77	245.77	245.77	AUG 245.77	245.77	245.92	245.82	SEP 245.77	245.72	245.67	245.47
	OCT 245.27	245.27	245.27	245.12	NOV 245.07	244.92	244.82	244.77	DEC 244.72	244.72	244.72	244.67
1906	JAN 244.77	244.92	244.92	244.97	FEB 245.02	245.02	244.97	244.87	MAR 244.87	244.82	244.77	244.72
	APR 244.77	244.87	245.07	245.07	MAY 245.07	245.07	245.12	245.12	JUN 245.07	245.17	245.17	245.22
	JUL 245.32	245.32	245.32	245.32	AUG 245.27	245.22	245.12	244.97	SEP 244.82	244.67	244.62	244.52
	OCT 244.37	244.37	244.32	244.37	NOV 244.42	244.42	244.37	244.42	DEC 244.42	244.47	244.47	244.47

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1907	JAN 244.47	244.87	245.02	245.22	FEB 245.32	245.22	245.22	245.17	MAR 245.17	245.12	245.12	245.22
	APR 245.52	245.57	245.57	245.62	MAY 245.67	245.82	245.82	245.82	JUN 245.87	245.92	245.87	245.87
	JUL 245.87	245.82	245.82	245.82	AUG 245.82	245.77	245.72	245.57	SEP 245.47	245.37	245.27	245.22
	OCT 245.22	245.22	245.17	245.02	NOV 245.02	245.12	245.02	245.07	DEC 245.07	244.97	244.97	245.02
1908	JAN 245.27	245.32	245.37	245.42	FEB 245.52	245.52	245.57	245.72	MAR 245.82	245.82	245.92	246.17
	APR 246.47	246.67	246.72	246.82	MAY 246.87	247.12	247.32	247.47	JUN 247.42	247.37	247.32	247.32
	JUL 247.27	247.12	247.07	247.07	AUG 246.97	246.92	246.82	246.57	SEP 246.32	246.07	245.87	245.72
	OCT 245.62	245.42	245.22	245.12	NOV 245.07	244.87	244.77	244.57	DEC 244.52	244.42	244.22	244.12
1909	JAN 244.02	243.97	243.97	243.92	FEB 244.02	244.02	244.07	244.12	MAR 244.37	244.47	244.42	244.42
	APR 244.47	244.62	244.87	245.07	MAY 245.32	245.62	245.92	246.12	JUN 246.12	246.12	246.07	245.97
	JUL 245.92	245.87	245.87	245.87	AUG 245.87	245.72	245.67	245.52	SEP 245.47	245.22	245.07	245.02
	OCT 244.87	244.67	244.57	244.42	NOV 244.32	244.22	244.12	244.07	DEC 244.07	244.02	243.97	243.92
1910	JAN 243.92	243.87	243.82	243.82	FEB 243.87	243.87	243.87	243.87	MAR 243.92	244.07	244.37	244.47
	APR 244.47	244.62	244.57	244.67	MAY 244.87	245.12	245.12	245.17	JUN 245.22	245.22	245.22	245.22
	JUL 245.12	245.07	245.02	244.97	AUG 244.92	244.87	244.77	244.77	SEP 244.67	244.67	244.52	244.37
	OCT 244.32	244.32	244.22	244.12	NOV 244.02	243.92	243.92	243.82	DEC 243.82	243.77	243.72	243.62
1911	JAN 243.52	243.52	243.52	243.47	FEB 243.52	243.52	243.57	243.62	MAR 243.67	243.57	243.67	243.72
	APR 243.82	243.92	244.02	244.17	MAY 244.22	244.32	244.32	244.32	JUN 244.32	244.37	244.42	244.42
	JUL 244.42	244.37	244.32	244.27	AUG 244.12	244.02	243.97	243.82	SEP 243.72	243.67	243.62	243.52
	OCT 243.47	243.42	243.37	243.32	NOV 243.27	243.22	243.22	243.17	DEC 243.22	243.17	243.27	243.42
1912	JAN 243.47	243.52	243.52	243.52	FEB 243.57	243.57	243.52	243.57	MAR 243.67	243.62	243.62	243.77
	APR 243.97	244.37	244.72	245.07	MAY 245.27	245.32	245.42	245.72	JUN 245.97	246.07	246.07	246.07
	JUL 245.97	245.82	245.77	245.72	AUG 245.62	245.47	245.42	245.37	SEP 245.27	245.17	245.12	245.12
	OCT 245.07	244.97	244.92	244.87	NOV 244.77	244.77	244.82	244.77	DEC 244.82	244.82	244.82	244.82
1913	JAN 244.82	244.92	245.07	245.42	FEB 245.67	245.67	245.42	245.27	MAR 245.27	245.17	245.27	245.47
	APR 246.12	246.42	246.52	246.57	MAY 246.67	246.72	246.72	246.77	JUN 246.82	246.87	246.82	246.72
	JUL 246.72	246.67	246.62	246.47	AUG 246.32	246.27	246.12	246.02	SEP 245.92	245.72	245.52	245.42
	OCT 245.32	245.17	245.07	244.97	NOV 244.92	244.87	244.87	244.87	DEC 244.82	244.77	244.67	244.62

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1914	JAN 244.57	244.47	244.37	244.37	FEB 244.42	244.52	244.57	244.47	MAR 244.32	244.37	244.37	244.42
	APR 244.77	245.12	245.17	245.42	MAY 245.47	245.62	245.72	245.72	JUN 245.72	245.72	245.72	245.67
	JUL 245.62	245.57	245.52	245.42	AUG 245.27	245.12	245.12	245.07	SEP 245.02	244.97	244.87	244.82
	OCT 244.62	244.52	244.42	244.32	NOV 244.17	244.07	244.02	243.87	DEC 243.82	243.72	243.57	243.47
1915	JAN 243.42	243.37	243.37	243.42	FEB 243.47	243.57	243.62	243.72	MAR 243.92	243.97	243.92	243.87
	APR 243.87	243.82	243.87	243.87	MAY 243.87	243.87	243.87	243.87	JUN 243.87	243.87	243.87	243.87
	JUL 243.87	243.87	243.87	243.87	AUG 243.87	244.17	244.22	244.32	SEP 244.27	244.17	244.22	244.17
	OCT 244.12	244.07	244.02	243.97	NOV 243.87	243.67	243.62	243.57	DEC 243.57	243.47	243.47	243.42
1916	JAN 243.52	243.67	243.82	243.87	FEB 244.02	244.07	244.12	244.07	MAR 244.12	244.17	244.17	244.17
	APR 244.47	244.97	245.12	245.42	MAY 245.57	245.67	245.82	246.12	JUN 246.22	246.57	246.67	246.87
	JUL 246.92	246.92	246.82	246.72	AUG 246.47	246.37	246.22	246.02	SEP 245.77	245.67	245.47	245.32
	OCT 245.12	244.92	244.82	244.77	NOV 244.62	244.52	244.47	244.37	DEC 244.27	244.17	244.17	244.12
1917	JAN 244.02	244.02	243.97	243.92	FEB 243.82	243.82	243.72	243.72	MAR 243.67	243.67	243.82	244.07
	APR 244.37	244.77	245.02	245.12	MAY 245.17	245.22	245.17	245.27	JUN 245.32	245.52	245.72	245.87
	JUL 245.97	246.07	246.22	246.27	AUG 246.27	246.17	246.07	245.92	SEP 245.87	245.82	245.62	245.52
	OCT 245.47	245.42	245.32	245.27	NOV 245.52	245.47	245.37	245.37	DEC 245.27	245.27	245.27	245.22
1918	JAN 245.12	244.97	244.92	244.82	FEB 244.67	244.57	244.62	244.77	MAR 244.97	245.07	245.27	245.52
	APR 245.67	245.82	245.92	245.97	MAY 245.97	245.87	245.92	245.87	JUN 245.82	245.82	245.77	245.72
	JUL 245.67	245.67	245.62	245.52	AUG 245.37	245.27	245.27	245.07	SEP 244.92	244.97	244.92	244.87
	OCT 244.77	244.72	244.72	244.67	NOV 244.77	244.77	244.67	244.72	DEC 244.62	244.62	244.62	244.67
1919	JAN 244.67	244.77	244.72	244.72	FEB 244.67	244.62	244.62	244.57	MAR 244.57	244.57	244.67	244.87
	APR 244.92	245.07	245.22	245.42	MAY 245.62	245.82	246.02	246.42	JUN 246.67	246.77	246.77	246.67
	JUL 246.62	246.57	246.52	246.42	AUG 246.32	246.12	246.02	246.02	SEP 245.87	245.72	245.57	245.47
	OCT 245.32	245.22	245.07	244.97	NOV 244.92	244.92	244.82	244.72	DEC 244.62	244.57	244.42	244.37
1920	JAN 244.27	244.12	244.02	243.92	FEB 243.87	243.77	243.77	243.72	MAR 243.57	243.47	243.72	243.97
	APR 244.17	244.27	244.22	244.22	MAY 244.32	244.37	244.32	244.32	JUN 244.27	244.27	244.27	244.32
	JUL 244.32	244.37	244.42	244.47	AUG 244.47	244.37	244.37	244.32	SEP 244.27	244.22	244.22	244.07
	OCT 244.02	244.02	243.97	243.92	NOV 243.92	243.92	243.77	243.82	DEC 243.87	244.02	244.12	244.27

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		2	3	4		2	3	4		2	3	4
1921	JAN 244.32	244.32	244.37	244.32	FEB 244.22	244.22	244.22	244.22	MAR 244.22	244.37	244.57	244.77
	APR 244.92	245.07	245.07	245.27	MAY 245.27	245.42	245.47	245.42	JUN 245.42	245.37	245.37	245.32
	JUL 245.22	245.17	245.12	245.02	AUG 244.92	244.72	244.67	244.52	SEP 244.37	244.32	244.17	244.02
	OCT 243.92	243.87	243.82	243.77	NOV 243.57	243.52	243.52	243.57	DEC 243.52	243.57	243.47	243.57
1922	JAN 243.52	243.57	243.57	243.47	FEB 243.32	243.47	243.47	243.47	MAR 243.62	243.77	243.92	244.02
	APR 244.07	244.37	244.77	245.17	MAY 245.22	245.32	245.27	245.37	JUN 245.32	245.32	245.47	245.57
	JUL 245.62	245.77	245.72	245.62	AUG 245.47	245.47	245.32	245.12	SEP 244.97	244.87	244.82	244.72
	OCT 244.52	244.42	244.37	244.22	NOV 244.02	243.92	243.87	243.72	DEC 243.62	243.47	243.37	243.32
1923	JAN 243.22	243.32	243.37	243.32	FEB 243.22	243.22	243.22	243.17	MAR 243.12	243.32	243.47	243.67
	APR 243.77	244.02	244.17	244.17	MAY 244.22	244.22	244.27	244.47	JUN 244.47	244.62	244.72	244.67
	JUL 244.67	244.62	244.57	244.42	AUG 244.27	244.22	244.12	244.07	SEP 243.92	243.87	243.77	243.67
	OCT 243.57	243.47	243.32	243.22	NOV 243.22	243.17	243.07	243.02	DEC 243.07	243.22	243.27	243.22
1924	JAN 243.27	243.32	243.52	243.52	FEB 243.57	243.62	243.62	243.67	MAR 243.52	243.57	243.62	243.62
	APR 243.77	243.97	244.07	244.32	MAY 244.42	244.57	244.87	245.02	JUN 245.07	245.07	245.02	245.02
	JUL 245.02	244.97	244.97	244.92	AUG 244.92	244.87	244.87	244.72	SEP 244.62	244.47	244.37	244.22
	OCT 244.37	244.32	244.22	244.07	NOV 243.92	243.77	243.72	243.57	DEC 243.42	243.37	243.37	243.22
1925	JAN 243.07	243.17	243.02	243.02	FEB 242.97	243.02	243.17	243.27	MAR 243.57	243.82	243.97	244.22
	APR 244.32	244.37	244.32	244.47	MAY 244.37	244.47	244.37	244.37	JUN 244.27	244.27	244.22	244.12
	JUL 244.07	244.02	243.92	243.92	AUG 243.82	243.82	243.77	243.57	SEP 243.32	243.37	243.47	243.37
	OCT 243.22	243.17	243.02	242.97	NOV 242.97	242.97	243.12	243.27	DEC 243.22	243.32	243.32	243.32
1926	JAN 243.17	242.97	243.02	242.92	FEB 242.82	242.82	242.82	242.77	MAR 242.72	242.77	242.77	242.87
	APR 243.07	243.42	243.72	243.87	MAY 244.02	244.12	244.12	244.12	JUN 244.02	244.02	244.07	244.07
	JUL 244.07	243.97	243.97	243.92	AUG 243.77	243.82	243.77	243.72	SEP 243.67	243.67	243.62	243.62
	OCT 243.67	243.77	243.62	243.62	NOV 243.77	243.82	243.87	244.17	DEC 244.22	244.22	244.22	244.17
1927	JAN 244.07	244.02	243.97	243.97	FEB 244.02	243.97	243.97	243.97	MAR 244.17	244.22	244.37	244.62
	APR 244.77	244.77	244.67	244.67	MAY 244.62	244.62	244.67	244.77	JUN 244.87	244.87	244.82	244.82
	JUL 244.82	244.72	244.72	244.72	AUG 244.77	244.62	244.47	244.27	SEP 244.22	244.12	244.02	243.87
	[illegible]	[illegible]	[illegible]	[illegible]	NOV 243.52	243.47	243.42	243.67	DEC 243.92	244.17	244.32	244.52

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1928	JAN	244.47	244.77	244.82	FEB	244.77	244.67	244.72	MAR	244.77	244.62	244.67	244.72
	APR	244.87	245.02	245.17	MAY	245.32	245.37	245.37	JUN	245.27	245.32	245.27	245.32
	JUL	245.47	245.47	245.52	AUG	245.47	245.47	245.42	SEP	245.22	245.02	244.92	244.67
	OCT	244.62	244.52	244.42	NOV	244.42	244.37	244.32	DEC	244.42	244.47	244.47	244.52
1929	JAN	244.52	244.42	244.42	FEB	244.72	244.72	244.67	MAR	244.57	244.67	244.87	245.17
	APR	245.37	245.87	246.07	MAY	246.57	246.87	247.07	JUN	247.27	247.22	247.17	247.17
	JUL	247.17	247.17	247.12	AUG	247.02	246.82	246.77	SEP	246.42	246.27	246.22	246.02
	OCT	245.87	245.82	245.67	NOV	245.47	245.37	245.32	DEC	245.32	245.17	245.12	245.17
1930	JAN	245.17	245.27	245.67	FEB	245.72	245.82	245.82	MAR	246.02	246.22	246.52	246.62
	APR	246.62	246.72	246.72	MAY	246.72	246.77	246.77	JUN	246.92	246.82	246.87	246.87
	JUL	246.92	246.87	246.87	AUG	246.57	246.42	246.17	SEP	245.87	245.67	245.57	245.42
	OCT	245.32	245.12	244.97	NOV	244.62	244.47	244.37	DEC	244.22	244.17	244.07	243.92
1931	JAN	243.82	243.82	243.77	FEB	243.57	243.52	243.52	MAR	243.42	243.42	243.42	243.42
	APR	243.57	243.67	243.72	MAY	243.77	243.82	243.87	JUN	244.12	244.22	244.22	244.17
	JUL	244.07	244.07	244.02	AUG	243.92	243.77	243.67	SEP	243.42	243.42	243.32	243.27
	OCT	243.17	243.07	242.97	NOV	242.82	242.77	242.72	DEC	242.67	242.67	242.67	242.67
1932	JAN	242.72	242.92	243.02	FEB	243.57	243.62	243.77	MAR	243.97	244.02	243.97	243.97
	APR	244.07	244.37	244.67	MAY	244.82	244.87	244.97	JUN	244.92	244.87	244.82	244.72
	JUL	244.67	244.67	244.67	AUG	244.47	244.47	244.32	SEP	244.12	243.92	243.77	243.62
	OCT	243.47	243.47	243.32	NOV	243.12	243.12	243.22	DEC	243.12	243.12	243.02	242.97
1933	JAN	243.07	243.12	243.07	FEB	243.12	243.07	243.02	MAR	242.92	242.87	242.92	243.02
	APR	243.07	243.32	243.57	MAY	243.87	244.02	244.12	JUN	244.17	244.22	244.17	244.12
	JUL	244.07	244.02	243.92	AUG	243.72	243.57	243.52	SEP	243.42	243.32	243.12	243.02
	OCT	242.97	242.82	242.72	NOV	242.42	242.32	242.22	DEC	242.22	242.22	242.22	242.17
1934	JAN	242.17	242.42	242.42	FEB	242.57	242.62	242.57	MAR	242.32	242.57	242.57	242.57
	APR	242.67	242.87	243.07	MAY	243.27	243.32	243.22	JUN	243.07	242.97	242.97	243.02
	JUL	242.97	242.87	242.82	AUG	242.57	242.42	242.32	SEP	241.97	241.92	242.02	242.02
	OCT	242.02	241.87	241.72	NOV	241.52	241.52	241.42	DEC	241.52	241.52	241.37	241.42

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1935	JAN 241.42	241.47	241.77	241.87	FEB 241.77	241.77	241.77	241.87	MAR 241.87	241.92	242.07	242.22
	APR 242.32	242.32	242.37	242.42	MAY 242.47	242.62	242.72	242.67	JUN 242.77	242.82	242.82	243.07
	JUL 243.07	243.07	243.17	243.12	AUG 243.02	242.92	242.87	242.77	SEP 242.57	242.52	242.47	242.37
	OCT 242.27	242.17	242.07	241.97	NOV 241.92	241.97	241.92	241.87	DEC 241.82	241.82	241.87	241.92
1936	JAN 241.77	241.77	241.82	241.77	FEB 241.67	241.62	241.57	241.47	MAR 241.52	241.62	242.07	242.72
	APR 243.27	243.62	243.77	243.97	MAY 244.02	244.07	244.07	243.97	JUN 243.92	243.92	243.87	243.82
	JUL 243.72	243.62	243.57	243.42	AUG 243.32	243.12	243.02	242.97	SEP 242.92	242.82	242.82	242.72
	OCT 242.67	242.67	242.52	242.52	NOV 242.47	242.57	242.57	242.42	DEC 242.37	242.32	242.27	242.27
1937	JAN 242.32	242.47	242.72	243.02	FEB 243.22	243.32	243.37	243.42	MAR 243.57	243.62	243.57	243.57
	APR 243.52	243.67	243.77	244.07	MAY 244.32	244.47	244.52	244.72	JUN 244.77	244.77	244.77	244.87
	JUL 244.87	244.82	244.77	244.72	AUG 244.67	244.62	244.62	244.47	SEP 244.42	244.27	244.12	243.92
	OCT 243.82	243.72	243.52	243.57	NOV 243.62	243.52	243.67	243.57	DEC 243.52	243.52	243.37	243.42
1938	JAN 243.27	243.22	243.22	243.17	FEB 243.17	243.37	243.57	243.67	MAR 243.72	243.92	243.92	244.17
	APR 244.37	244.42	244.52	244.67	MAY 244.72	244.72	244.72	244.72	JUN 244.72	244.67	244.67	244.62
	JUL 244.52	244.42	244.42	244.42	AUG 244.42	244.42	244.37	244.32	SEP 244.12	243.97	243.97	244.02
	OCT 244.02	243.87	243.82	243.72	NOV 243.57	243.47	243.42	243.37	DEC 243.27	243.27	243.22	243.07
1939	JAN 243.07	243.07	243.07	243.02	FEB 243.02	243.02	243.02	243.17	MAR 243.37	243.57	243.67	243.72
	APR 244.02	244.27	244.47	244.72	MAY 244.87	244.92	244.92	244.92	JUN 244.92	244.87	244.87	244.82
	JUL 244.82	244.82	244.77	244.57	AUG 244.57	244.47	244.52	244.42	SEP 244.27	244.12	243.97	243.77
	OCT 243.72	243.67	243.62	243.47	NOV 243.37	243.32	243.12	243.02	DEC 242.92	242.92	242.87	242.87
1940	JAN 242.77	242.77	242.77	242.72	FEB 242.57	242.52	242.57	242.52	MAR 242.52	242.62	242.62	242.62
	APR 242.62	243.22	243.57	243.92	MAY 244.07	244.22	244.27	244.37	JUN 244.57	244.62	244.67	244.67
	JUL 244.77	244.77	244.72	244.77	AUG 244.77	244.62	244.52	244.32	SEP 244.22	244.12	244.02	243.92
	OCT 243.92	243.87	243.77	243.62	NOV 243.47	243.52	243.47	243.47	DEC 243.47	243.52	243.47	243.57
1941	JAN 243.82	243.92	243.92	243.87	FEB 243.92	243.92	244.02	244.07	MAR 243.97	243.97	244.07	244.02
	APR 244.07	244.27	244.37	244.47	MAY 244.42	244.37	244.27	244.22	JUN 244.17	244.12	244.02	243.97
	JUL 243.92	243.87	243.82	243.72	AUG 243.77	243.67	243.52	243.42	SEP 243.32	243.32	243.27	243.12
	OCT 243.02	242.97	242.92	242.92	NOV 242.82	242.92	242.87	242.82	DEC 242.77	242.77	242.72	242.72

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		2	3	4		2	3	4		2	3	4
1942	JAN 242.82	242.87	242.77	242.72	FEB 242.67	242.82	242.77	242.77	MAR 242.72	242.82	243.22	243.72
	APR 243.82	244.07	244.27	244.37	MAY 244.42	244.47	244.52	244.67	JUN 244.82	244.92	244.92	244.87
	JUL 244.82	244.77	244.72	244.72	AUG 244.72	244.67	244.62	244.52	SEP 244.37	244.32	244.32	244.22
	OCT 244.17	244.07	243.97	243.92	NOV 243.92	243.92	243.92	243.92	DEC 244.02	243.97	243.97	243.92
1943	JAN 244.22	244.37	244.42	244.42	FEB 244.52	244.57	244.72	244.67	MAR 244.87	244.97	245.07	245.42
	APR 245.62	245.72	245.72	245.82	MAY 245.97	246.22	246.57	246.97	JUN 247.32	247.47	247.52	247.52
	JUL 247.47	247.42	247.32	247.27	AUG 247.17	247.07	247.07	246.97	SEP 246.77	246.72	246.52	246.32
	OCT 246.17	245.97	245.82	245.77	NOV 245.82	245.82	245.77	245.67	DEC 245.62	245.52	245.42	245.27
1944	JAN 245.07	245.02	244.82	244.77	FEB 244.72	244.62	244.62	244.57	MAR 244.62	244.52	244.52	244.62
	APR 244.82	244.77	245.17	245.32	MAY 245.52	245.67	245.82	245.87	JUN 245.87	245.87	245.92	246.02
	JUL 246.12	246.02	245.97	245.92	AUG 245.87	245.67	245.62	245.47	SEP 245.32	245.27	245.17	245.12
	OCT 244.97	244.82	244.72	244.57	NOV 244.42	244.27	244.22	244.12	DEC 244.12	244.02	244.17	244.07
1945	JAN 244.02	243.97	244.02	244.12	FEB 244.12	244.12	244.07	244.07	MAR 244.22	244.52	244.67	245.07
	APR 245.37	245.62	245.67	245.72	MAY 245.92	246.12	246.22	246.52	JUN 246.62	246.67	246.67	246.72
	JUL 246.72	246.67	246.67	246.67	AUG 246.62	246.52	246.42	246.22	SEP 246.12	245.97	245.92	245.97
	OCT 246.07	246.32	246.32	246.27	NOV 246.27	246.22	246.17	246.17	DEC 246.22	246.27	246.27	246.12
1946	JAN 246.17	246.12	246.22	246.12	FEB 245.92	245.97	245.92	245.97	MAR 245.92	246.22	246.37	246.37
	APR 246.27	246.22	246.12	246.02	MAY 245.97	245.92	245.87	246.02	JUN 246.02	246.07	246.07	246.07
	JUL 246.02	245.97	245.92	245.87	AUG 245.72	245.62	245.57	245.47	SEP 245.32	245.12	245.07	245.02
	OCT 244.97	244.77	244.82	244.77	NOV 244.82	244.82	244.72	244.67	DEC 244.62	244.52	244.47	244.47
1947	JAN 244.52	244.52	244.57	244.62	FEB 244.92	245.07	244.92	244.87	MAR 244.82	244.87	244.87	244.92
	APR 245.22	245.67	245.87	246.02	MAY 246.12	246.32	246.42	246.67	JUN 246.92	247.52	247.77	247.82
	JUL 247.77	247.72	247.67	247.72	AUG 247.82	247.62	247.42	247.37	SEP 247.22	247.12	246.97	246.77
	OCT 246.52	246.32	246.17	245.97	NOV 245.82	245.72	245.67	245.52	DEC 245.42	245.37	245.37	245.27
1948	JAN 245.12	245.22	245.17	245.07	FEB 245.02	245.02	245.02	245.12	MAR 245.27	245.37	245.37	245.92
	APR 246.27	246.42	246.62	246.72	MAY 246.77	246.87	246.97	247.12	JUN 247.12	247.12	247.12	247.07
	JUL 247.02	246.87	246.82	246.72	AUG 246.67	246.47	246.37	246.27	SEP 246.12	245.97	245.77	245.62
	OCT 245.42	245.27	245.22	245.12	NOV 244.97	244.97	244.92	244.97	DEC 244.87	244.82	244.67	244.62

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1949	JAN	244.52	244.67	244.72	244.82	FEB	244.87	244.92	244.97	245.22	MAR	245.27	245.32	245.32	245.37
	APR	245.42	245.62	245.62	245.77	MAY	245.77	245.82	245.72	245.72	JUN	245.62	245.52	245.47	245.42
	JUL	245.32	245.22	245.12	245.02	AUG	244.92	244.72	244.62	244.37	SEP	244.32	244.27	244.17	244.12
	OCT	244.02	243.97	243.92	243.82	NOV	243.67	243.52	243.47	243.47	DEC	243.37	243.32	243.27	243.47
1950	JAN	243.57	243.82	243.97	244.12	FEB	244.37	244.37	244.52	244.67	MAR	244.67	244.67	244.62	244.82
	APR	245.22	245.77	245.92	246.02	MAY	246.07	246.07	246.12	246.12	JUN	246.07	246.07	246.07	246.02
	JUL	246.02	245.92	245.87	245.77	AUG	245.77	245.67	245.47	245.37	SEP	245.42	245.22	245.22	245.07
	OCT	244.87	244.77	244.87	244.77	NOV	244.67	244.72	244.62	244.67	DEC	244.77	244.92	245.07	245.07
1951	JAN	245.02	245.12	245.22	245.27	FEB	245.27	245.37	245.37	245.67	MAR	245.82	246.02	246.12	246.22
	APR	246.47	246.77	247.17	247.37	MAY	247.62	247.62	247.67	247.62	JUN	247.57	247.52	247.57	247.52
	JUL	247.47	247.52	247.47	247.42	AUG	247.27	247.02	246.92	246.72	SEP	246.62	246.47	246.42	246.27
	OCT	246.07	245.97	245.82	245.67	NOV	245.57	245.52	245.57	245.52	DEC	245.52	245.57	245.62	245.62
1952	JAN	245.67	245.77	245.87	246.07	FEB	246.17	246.37	246.42	246.52	MAR	246.47	246.57	246.77	246.97
	APR	247.07	247.52	247.67	247.77	MAY	247.87	247.82	247.92	248.12	JUN	248.22	248.17	248.12	247.97
	JUL	247.92	247.77	247.67	247.62	AUG	247.42	247.27	247.17	247.02	SEP	246.87	246.67	246.57	246.57
	OCT	246.42	246.27	246.12	245.87	NOV	245.72	245.57	245.47	245.52	DEC	245.47	245.42	245.47	245.52
1953	JAN	245.42	245.37	245.32	245.47	FEB	245.42	245.42	245.42	245.42	MAR	245.42	245.47	245.47	245.57
	APR	246.02	246.07	246.12	246.17	MAY	246.17	246.37	246.47	246.72	JUN	246.77	246.77	246.72	246.62
	JUL	246.52	246.42	246.27	246.22	AUG	246.17	246.07	246.02	245.82	SEP	245.77	245.67	245.52	245.47
	OCT	245.32	245.12	244.97	244.87	NOV	244.77	244.52	244.52	244.47	DEC	244.47	244.47	244.52	244.52
1954	JAN	244.47	244.42	244.32	244.27	FEB	244.37	244.32	244.27	244.72	MAR	244.97	245.22	245.22	245.27
	APR	245.47	245.67	245.82	246.17	MAY	246.42	246.67	246.72	246.67	JUN	246.62	246.62	246.57	246.57
	JUL	246.52	246.32	246.22	246.02	AUG	245.92	245.82	245.62	245.52	SEP	245.52	245.42	245.32	245.27
	OCT	245.22	245.17	245.22	245.32	NOV	245.32	245.37	245.27	245.27	DEC	245.47	245.32	245.37	245.37
1955	JAN	245.47	245.73	245.72	245.65	FEB	245.58	245.57	245.43	245.53	MAR	245.64	245.88	246.15	246.45
	APR	246.60	246.90	247.04	247.23	MAY	247.30	247.30	247.22	247.13	JUN	247.15	247.05	246.98	246.87
	JUL	246.72	246.62	246.48	246.30	AUG	246.17	245.97	246.15	245.97	SEP	245.85	245.65	245.50	245.30
	OCT	245.20	245.20	245.25	245.50	NOV	245.60	245.55	245.54	245.42	DEC	245.37	245.35	245.30	245.15

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 2				QUARTER 3				QUARTER 4			
1956	JAN	244.97	244.88	244.85	FEB	244.65	244.55	244.55	244.50	MAR	244.43	244.70	244.85	244.87		
	APR	244.87	245.20	245.40	MAY	245.88	246.15	246.43	246.53	JUN	246.60	246.65	246.63	246.45		
	JUL	246.37	246.27	246.22	AUG	245.98	245.83	245.75	245.64	SEP	245.73	245.72	245.52	245.40		
	OCT	245.26	245.16	245.00	NOV	244.75	244.67	244.50	244.42	DEC	244.30	244.32	244.28	244.20		
1957	JAN	244.22	244.10	243.95	FEB	244.18	244.16	244.12	244.07	MAR	244.18	244.18	244.28	244.41		
	APR	244.38	244.50	244.58	MAY	244.81	244.73	244.81	245.00	JUN	245.02	245.02	244.99	244.98		
	JUL	245.20	245.23	245.24	AUG	245.13	245.04	244.93	244.70	SEP	244.55	244.53	244.42	244.48		
	OCT	244.30	244.07	243.93	NOV	243.68	243.63	243.65	243.53	DEC	243.60	243.44	243.45	243.65		
1958	JAN	243.84	243.75	243.64	FEB	243.71	243.67	243.53	243.45	MAR	243.60	243.75	243.75	243.82		
	APR	243.00	244.08	244.12	MAY	244.28	244.27	244.28	244.30	JUN	244.25	244.25	244.33	244.18		
	JUL	244.21	244.10	244.10	AUG	244.00	243.95	243.87	243.73	SEP	243.67	243.60	243.54	243.67		
	OCT	243.57	243.40	243.30	NOV	243.15	243.12	243.15	243.10	DEC	243.05	243.00	242.93	242.85		
1959	JAN	242.82	242.74	242.78	FEB	243.11	243.13	243.31	243.34	MAR	243.48	243.68	243.75	243.98		
	APR	244.19	244.76	245.01	MAY	245.16	245.11	245.10	245.12	JUN	245.12	245.05	244.92	244.79		
	JUL	244.70	244.74	244.60	AUG	244.28	244.06	243.98	243.82	SEP	243.74	243.61	243.38	243.18		
	OCT	243.14	243.28	243.15	NOV	243.02	243.03	243.02	243.02	DEC	243.04	243.20	243.40	243.44		
1960	JAN	243.58	243.64	243.80	FEB	243.88	243.94	244.15	244.31	MAR	244.40	244.34	244.22	244.20		
	APR	244.34	244.91	245.12	MAY	245.70	245.82	245.96	246.06	JUN	246.12	246.12	246.10	245.98		
	JUL	245.88	245.74	245.60	AUG	245.28	245.10	244.94	244.83	SEP	244.65	244.46	244.28	244.15		
	OCT	244.08	243.94	243.92	NOV	243.94	243.89	243.92	243.92	DEC	243.86	243.80	243.67	243.61		
1961	JAN	243.54	243.50	243.39	FEB	243.16	243.06	242.98	242.96	MAR	243.32	243.58	243.74	243.86		
	APR	244.02	244.13	244.44	MAY	245.02	245.23	245.40	245.53	JUN	245.56	245.62	245.58	245.59		
	JUL	245.55	245.53	245.47	AUG	245.24	245.12	245.00	244.84	SEP	244.80	244.71	244.60	244.40		
	OCT	244.28	244.17	244.02	NOV	243.72	243.62	243.58	243.61	DEC	243.53	243.60	243.57	243.56		
1962	JAN	243.44	243.40	243.38	FEB	243.26	243.16	243.16	243.16	MAR	243.19	243.12	243.28	243.46		
	APR	243.71	244.08	244.39	MAY	244.78	244.98	245.04	245.20	JUN	245.32	245.34	245.34	245.36		
	JUL	245.32	245.18	245.16	AUG	245.12	245.20	245.14	245.01	SEP	244.96	244.74	244.69	244.60		
	OCT	244.61	244.66	244.58	NOV	244.40	244.29	244.35	244.28	DEC	244.26	244.32	244.32	244.23		

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		2	3	4		2	3	4		2	3	4
1963	JAN 244.10	244.02	243.94	243.76	FEB 243.63	243.49	243.39	243.24	MAR 243.15	243.13	243.18	243.36
	APR 243.81	244.23	244.41	244.73	MAY 244.90	245.08	245.30	245.56	JUN 245.70	245.74	245.78	245.78
	JUL 245.75	245.70	245.64	245.61	AUG 245.51	245.51	245.54	245.40	SEP 245.25	245.08	244.90	244.69
	OCT 244.53	244.36	244.19	244.02	NOV 243.76	243.65	243.59	243.58	DEC 243.56	243.48	243.40	243.28
1964	JAN 243.20	243.08	242.80	242.70	FEB 242.63	242.52	242.40	242.24	MAR 242.04	242.19	242.37	242.48
	APR 242.69	242.96	243.18	243.44	MAY 243.70	243.88	244.08	244.23	JUN 244.37	244.46	244.51	244.51
	JUL 244.52	244.52	244.58	244.51	AUG 244.38	244.20	244.12	244.16	SEP 244.08	243.89	243.70	243.50
	OCT 243.34	243.14	242.94	242.78	NOV 242.60	242.40	242.26	242.12	DEC 242.02	241.88	241.81	241.74
1965	JAN 241.74	241.76	241.76	241.72	FEB 241.68	241.70	241.98	242.01	MAR 242.14	242.32	242.44	242.61
	APR 242.68	242.80	243.09	243.42	MAY 243.61	243.82	243.93	244.10	JUN 244.24	244.32	244.36	244.42
	JUL 244.56	244.68	244.68	244.60	AUG 244.48	244.49	244.46	244.40	SEP 244.30	244.31	244.25	244.23
	OCT 244.12	244.10	244.10	244.06	NOV 243.97	243.94	243.94	244.09	DEC 244.16	244.22	244.23	244.19
1966	JAN 244.19	244.20	244.14	244.16	FEB 244.02	243.97	244.06	244.06	MAR 244.10	244.37	244.44	244.56
	APR 244.68	244.72	244.70	244.73	MAY 244.75	244.76	244.84	244.99	JUN 245.08	245.18	245.30	245.36
	JUL 245.35	245.34	245.24	245.17	AUG 245.09	244.99	244.96	244.94	SEP 244.86	244.79	244.62	244.58
	OCT 244.44	244.33	244.26	244.09	NOV 243.92	243.92	243.92	243.84	DEC 243.94	244.04	244.24	244.26
1967	JAN 244.23	244.22	244.23	244.18	FEB 244.36	244.32	244.26	244.20	MAR 244.10	244.02	244.01	244.04
	APR 244.22	244.65	244.85	245.05	MAY 245.14	245.29	245.48	245.68	JUN 245.72	245.78	245.85	245.95
	JUL 246.03	246.06	246.09	246.04	AUG 246.04	246.02	245.95	245.81	SEP 245.71	245.56	245.40	245.36
	OCT 245.40	245.29	245.15	245.24	NOV 245.20	245.18	245.17	245.14	DEC 245.04	244.88	244.76	244.76
1968	JAN 244.65	244.57	244.49	244.44	FEB 244.52	244.64	244.59	244.49	MAR 244.46	244.38	244.45	244.76
	APR 245.05	244.28	245.30	245.23	MAY 245.16	245.11	245.18	245.36	JUN 245.48	245.57	245.64	245.66
	JUL 245.87	245.93	245.86	245.82	AUG 245.70	245.68	245.48	245.44	SEP 245.25	245.18	245.16	245.00
	OCT 244.75	244.60	244.44	244.29	NOV 244.15	244.08	243.98	244.02	DEC 244.23	244.36	244.20	244.22
1969	JAN 244.34	244.30	244.29	244.35	FEB 244.56	244.61	244.56	244.52	MAR 244.46	244.32	244.23	244.30
	APR 244.54	244.74	244.88	245.21	MAY 245.38	245.45	245.58	245.86	JUN 245.96	246.07	246.08	246.06
	JUL 246.06	245.94	245.88	245.66	AUG 245.67	245.54	245.34	245.16	SEP 244.93	244.71	244.53	244.34
	OCT 244.14	244.00	243.89	243.86	NOV 243.74	243.77	243.76	243.77	DEC 243.70	243.66	243.80	243.76

TABLE A-5 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY BEGINNING-OF-PERIOD LEVELS (IGLD 1955)
RECORDED DATA

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1970	JAN	243.72	243.68	243.67	FEB	243.59	243.66	243.77	MAR	243.72	243.74	243.73	243.84
	APR	244.02	244.36	244.52	MAY	244.97	245.06	245.17	JUN	245.37	245.36	245.31	245.36
	JUL	245.48	245.48	245.53	AUG	245.54	245.40	245.24	SEP	244.93	244.80	244.66	244.60
	OCT	244.56	244.44	244.40	NOV	244.28	244.10	244.12	DEC	244.12	244.13	244.09	244.12
1971	JAN	244.18	244.20	244.20	FEB	244.10	244.08	244.21	MAR	244.32	244.48	244.56	244.76
	APR	244.76	244.88	245.14	MAY	245.50	245.62	245.66	JUN	245.56	245.54	245.49	245.46
	JUL	245.50	245.46	245.32	AUG	245.20	245.04	244.90	SEP	244.94	244.82	244.76	244.63
	OCT	244.46	244.37	244.22	NOV	244.00	243.81	243.68	DEC	243.61	243.58	243.73	243.79
1972	JAN	243.88	243.93	244.00	FEB	244.20	244.28	244.34	MAR	244.39	244.51	244.62	244.82
	APR	244.92	245.02	245.34	MAY	245.88	246.16	246.27	JUN	246.36	246.37	246.32	246.47
	JUL	246.61	246.64	246.72	AUG	246.59	246.54	246.38	SEP	246.06	245.85	245.61	245.32
	OCT	245.22	245.04	244.80	NOV	244.54	244.60	244.62	DEC	244.64	244.72	244.92	245.09
1973	JAN	245.38	245.58	245.66	FEB	246.01	246.31	246.31	MAR	246.14	246.28	246.55	247.00
	APR	247.15	247.64	247.76	MAY	247.88	247.92	247.94	JUN	247.98	247.97	247.86	247.72
	JUL	247.68	247.50	247.31	AUG	246.84	246.63	246.44	SEP	246.06	245.83	245.52	245.37
	OCT	245.16	245.04	244.86	NOV	244.60	244.40	244.34	DEC	244.28	244.27	244.31	244.32
1974	JAN	244.70	244.85	245.00	FEB	245.42	245.58	245.60	MAR	245.70	245.90	245.94	245.96
	APR	245.99	246.32	246.53	MAY	246.84	246.90	247.19	JUN	247.55	247.48	247.46	247.46
	JUL	247.38	247.40	247.25	AUG	246.82	246.64	246.39	SEP	245.90	245.61	245.44	245.16
	OCT	244.98	244.72	244.58	NOV	244.10	244.00	243.92	DEC	244.00	243.98	244.08	244.08
1975	JAN	244.01	244.01	244.08	FEB	244.43	244.52	244.56	MAR	244.88	244.94	244.90	245.20
	APR	245.36	245.52	245.52	MAY	245.80	245.95	245.94	JUN	245.82	245.86	245.94	245.90
	JUL	245.77	245.62	245.46	AUG	245.29	245.12	245.02	SEP	244.88	244.70	244.61	244.61
	OCT	244.71	244.62	244.58	NOV	244.37	244.30	244.26	DEC	244.08	244.04	244.11	244.13
1976	JAN	244.25	244.20	244.34	FEB	244.45	244.40	244.46	MAR	245.08	245.58	245.78	246.02
	APR	246.36	246.68	246.78	MAY	247.09	247.24	247.26	JUN	247.52	247.40	247.27	247.20
	JUL	247.24	247.07	246.98	AUG	246.70	246.46	246.36	SEP	245.92	245.66	245.52	245.38
	OCT	245.24	245.08	245.03	NOV	244.80	244.68	244.47	DEC	244.12	244.08	244.04	244.03

TABLE A-6

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	79	77	73	73	77	78	82	86	92	94	94	84
1901	79	75	69	70	76	79	86	86	81	81	78	72
1902	66	62	57	61	65	69	74	75	77	74	75	69
1903	64	61	60	62	70	77	79	80	80	81	80	73
1904	72	68	68	70	76	82	84	86	87	90	87	81
1905	78	71	67	74	79	82	87	87	89	93	88	84
1906	82	76	74	76	81	86	88	89	88	86	84	79
1907	74	71	67	70	72	78	83	88	91	87	85	82
1908	75	70	65	62	67	78	86	88	85	82	79	74
1909	67	61	54	53	56	63	69	76	76	75	69	74
1910	67	63	57	55	57	64	66	70	69	68	66	58
1911	55	50	47	48	52	56	58	63	62	62	60	58
1912	56	54	52	54	60	64	64	69	70	71	69	66
1913	62	60	58	61	68	70	73	75	76	80	78	76
1914	70	69	65	64	70	73	75	76	80	87	85	69
1915	67	67	66	64	70	71	75	76	76	75	76	73
1916	71	70	69	74	83	98	98	104	115	118	114	108
1917	89	86	84	88	90	91	90	80	82	85	82	65
1918	66	64	65	64	66	72	62	66	74	76	70	58
1919	58	56	56	56	58	56	57	55	59	58	59	59
1920	60	59	58	58	82	85	89	99	86	68	61	58
1921	56	57	54	56	50	49	58	61	61	56	51	48
1922	44	45	46	46	47	43	45	47	46	49	50	51
1923	50	51	54	53	60	56	55	55	54	53	52	53
1924	54	53	54	56	56	53	50	53	52	52	54	53
1925	55	54	55	59	60	55	53	59	74	77	74	68
1926	59	57	56	58	60	57	56	45	42	44	49	59
1927	72	72	71	74	76	78	76	81	79	77	82	74
1928	75	75	73	77	80	74	69	83	101	111	117	103
1929	69	55	60	101	98	76	91	76	74	60	58	56
1930	55	55	58	57	58	61	77	92	82	59	56	52
1931	49	51	49	51	44	46	49	48	55	56	57	53
1932	53	58	58	57	57	55	60	60	79	72	69	55
1933	49	47	50	48	53	56	69	64	61	65	75	54

TABLE A-6 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	58	60	61	60	58	73	94	101	92	78	85	98
1935	70	62	76	96	99	89	94	95	99	110	104	68
1936	65	65	65	65	83	87	85	86	84	76	77	66
1937	64	64	64	65	62	76	72	72	73	72	72	64
1938	62	62	60	60	81	117	126	124	122	118	97	61
1939	62	63	63	74	101	104	116	126	124	112	76	66
1940	64	65	54	53	56	57	61	62	61	62	61	60
1941	62	62	61	60	60	60	57	60	60	77	108	84
1942	83	67	59	89	67	81	92	79	79	69	56	59
1943	60	64	75	81	90	110	123	127	125	114	99	75
1944	68	58	58	59	61	61	80	100	109	115	102	83
1945	75	74	74	86	108	106	76	74	74	81	94	75
1946	74	74	73	68	77	77	77	75	77	79	77	76
1947	75	75	72	73	76	78	117	115	102	114	91	78
1948	76	75	74	75	74	69	65	63	58	59	59	57
1949	57	57	57	59	63	64	61	66	72	72	72	67
1950	63	66	66	66	68	105	124	127	126	124	121	112
1951	82	80	80	104	122	123	124	122	124	124	121	103
1952	84	82	81	82	107	78	67	117	117	114	107	75
1953	74	72	70	78	93	98	107	120	119	114	101	80
1954	74	72	72	71	76	77	100	116	113	96	76	65
1955	62	62	61	60	72	75	70	66	41	50	84	77
1956	74	74	73	76	69	61	62	72	72	73	70	69
1957	67	66	57	57	52	54	54	64	67	67	66	65
1958	71	71	69	61	62	62	57	56	57	66	69	66
1959	66	67	65	70	70	69	67	69	75	112	118	89
1960	74	72	69	66	68	111	115	105	103	92	73	68
1961	67	67	66	66	68	69	65	57	57	58	65	65
1962	64	65	64	63	60	60	63	60	56	64	68	65
1963	62	65	60	57	61	61	63	62	72	64	66	56
1964	59	68	68	68	70	72	81	100	107	111	116	93
1965	86	84	83	82	94	99	113	114	108	102	102	85
1966	77	77	77	81	80	79	96	96	104	90	80	75
1967	71	72	71	71	85	90	90	92	87	71	72	70

TABLE A-6 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	69	69	67	69	70	70	100	122	123	124	123	105
1969	83	92	95	103	115	116	116	116	105	69	67	68
1970	68	83	70	64	64	65	65	96	79	65	86	101
1971	93	83	84	95	108	113	114	106	108	113	112	99
1972	81	73	75	75	111	116	114	114	115	111	116	86
1973	75	57	53	55	55	56	80	97	118	93	84	85
1974	76	75	75	75	73	85	76	75	74	73	84	97
1975	87	85	86	92	98	89	84	81	74	66	68	70
1976	70	69	69	72	84	82	80	72	68	64	57	60

TABLE A-7

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	148	140	140	181	185	187	192	193	196	197	199	192
1901	166	126	154	127	194	202	204	204	200	198	196	187
1902	146	152	183	186	188	192	191	194	190	186	187	182
1903	141	137	173	185	185	188	192	192	194	198	192	182
1904	153	148	154	187	195	202	204	205	204	205	201	189
1905	126	139	161	196	200	204	206	207	207	206	202	198
1906	193	150	170	200	204	204	206	205	202	198	196	182
1907	156	145	173	197	199	202	206	205	206	202	198	194
1908	140	132	167	192	198	204	208	206	201	196	192	190
1909	170	122	154	184	190	195	197	195	194	190	184	178
1910	138	140	178	182	186	189	187	186	185	185	182	169
1911	135	130	170	173	180	183	184	184	180	180	178	175
1912	136	141	156	168	177	188	188	191	192	194	194	194
1913	184	146	165	184	192	199	202	200	196	198	196	191
1914	154	154	161	184	186	190	191	191	192	190	190	176
1915	131	149	171	181	180	182	182	182	182	182	182	177
1916	164	142	145	180	188	194	200	200	199	196	198	194
1917	160	160	192	194	198	202	209	211	206	203	202	168
1918	144	161	176	161	214	218	215	212	209	203	204	200
1919	190	185	187	190	198	197	200	198	195	192	191	191
1920	123	132	167	193	197	199	202	200	201	198	192	188
1921	185	136	179	181	190	190	189	188	184	185	178	180
1922	144	134	164	181	188	193	193	192	189	186	183	177
1923	134	136	150	171	175	184	183	183	182	180	176	169
1924	150	122	154	162	169	177	178	180	180	175	169	150
1925	133	130	148	162	166	165	166	164	160	160	156	157
1926	110	115	127	153	161	166	166	165	162	160	158	159
1927	113	123	146	166	172	178	178	178	174	176	172	170
1928	142	116	137	180	187	188	190	194	196	198	201	198
1929	169	164	191	202	214	218	220	220	216	208	208	178
1930	160	166	192	190	194	198	202	202	198	192	186	180
1931	147	111	124	175	176	174	175	170	166	166	168	164
1932	157	158	134	162	160	163	166	165	161	159	156	145
1933	149	116	145	151	155	162	162	162	158	156	155	146

TABLE A-7 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	108	121	132	154	156	158	159	160	159	159	155	157
1935	129	149	150	160	161	164	167	167	164	163	162	141
1936	135	133	150	166	170	173	172	169	171	172	168	161
1937	159	122	161	157	163	165	164	164	166	165	165	154
1938	127	145	132	168	174	178	182	184	183	182	180	176
1939	158	140	144	171	180	184	188	190	190	188	185	180
1940	126	143	152	168	171	174	176	176	179	176	174	171
1941	140	130	155	168	177	176	176	173	174	178	181	180
1942	147	106	162	181	185	189	190	189	188	186	184	177
1943	140	148	164	186	184	196	202	208	208	205	204	198
1944	149	164	168	192	194	196	198	198	198	198	194	190
1945	150	162	181	183	186	194	199	198	196	194	195	187
1946	165	160	195	201	200	198	199	196	194	190	188	185
1947	151	148	177	174	184	190	198	198	198	198	198	192
1948	173	166	176	190	194	194	195	195	190	184	180	178
1949	171	162	153	174	178	178	182	181	178	172	170	163
1950	153	134	142	161	170	176	182	187	186	186	186	178
1951	155	156	180	187	198	201	208	211	210	214	214	210
1952	203	202	203	215	220	224	224	228	226	222	215	213
1953	209	201	204	206	214	216	220	221	218	214	210	204
1954	169	157	197	196	204	208	214	214	211	213	214	210
1955	195	185	197	201	206	206	206	202	194	190	188	183
1956	144	142	166	181	180	189	190	190	188	185	184	180
1957	146	156	173	172	174	178	182	180	180	176	176	173
1958	141	132	164	164	176	172	172	171	169	166	165	154
1959	118	128	151	155	166	171	172	173	174	173	175	173
1960	164	148	165	173	190	196	204	205	204	202	198	187
1961	174	180	183	182	182	184	187	187	187	189	188	182
1962	153	147	173	181	187	188	188	185	186	180	174	164
1963	142	132	152	162	168	171	172	173	170	168	166	156
1964	133	127	146	147	155	156	159	160	161	161	159	154
1965	131	133	144	155	166	170	172	174	175	180	178	174
1966	171	162	170	177	182	182	184	181	180	177	172	171
1967	167	156	167	176	183	186	192	192	190	184	188	180

TABLE A-7 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	163	164	176	178	183	186	192	196	197	198	197	189
1969	164	181	186	190	196	202	208	212	210	207	206	195
1970	150	166	191	192	199	204	206	207	207	204	204	200
1971	184	176	196	205	211	214	218	218	215	212	210	203
1972	198	188	192	194	208	214	214	218	222	221	216	210
1973	207	194	201	214	221	225	228	230	228	225	222	214
1974	200	202	206	210	219	227	232	229	226	220	218	210
1975	201	196	192	206	216	220	223	220	218	212	207	205
1976	167	176	194	212	220	222	223	220	214	208	201	182

TABLE A-8

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS, RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	152	147	148	186	187	190	194	196	196	197	199	190
1901	175	142	159	128	177	199	204	205	201	198	197	191
1902	150	155	180	180	187	194	202	198	193	188	188	188
1903	151	144	181	192	192	197	201	195	197	198	196	201
1904	160	165	162	200	201	204	206	208	206	205	203	196
1905	135	156	172	195	202	208	212	212	209	210	205	201
1906	194	149	169	191	206	209	210	208	203	200	201	185
1907	169	153	176	201	205	203	209	209	208	206	201	196
1908	153	146	177	200	205	209	212	212	202	202	195	190
1909	176	132	150	192	197	197	198	196	195	193	190	176
1910	166	138	175	186	194	191	188	187	186	188	186	174
1911	135	138	164	173	181	184	184	185	181	183	182	178
1912	140	139	162	176	186	192	194	194	196	198	200	197
1913	187	148	161	201	202	201	203	201	197	201	200	191
1914	166	156	161	182	192	192	192	196	195	192	194	187
1915	133	159	160	180	185	184	186	188	185	184	184	178
1916	178	153	139	183	196	194	199	204	200	199	199	197
1917	159	160	189	202	206	206	211	215	205	208	206	172
1918	153	169	172	182	219	220	218	215	214	206	210	202
1919	204	188	196	204	206	201	201	204	201	198	200	194
1920	123	140	169	193	192	200	203	202	202	201	193	182
1921	188	131	185	187	190	191	191	189	185	188	179	183
1922	159	140	166	180	182	195	194	193	190	188	187	179
1923	147	136	157	172	174	186	184	184	183	183	180	163
1924	160	122	153	159	170	179	179	181	181	178	173	156
1925	143	132	153	155	160	167	167	165	161	163	160	152
1926	114	112	132	153	164	162	163	164	163	166	166	164
1927	119	126	143	169	172	178	180	178	175	177	176	173
1928	160	138	134	176	188	188	191	195	197	201	201	201
1929	180	164	202	218	228	226	227	223	216	209	211	189
1930	166	168	200	202	204	202	207	204	200	199	186	180
1931	154	116	122	175	174	174	176	171	169	170	171	167
1932	161	164	134	158	166	166	167	166	162	159	157	160
1933	154	133	149	160	162	170	166	162	158	156	156	147

TABLE A-8 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS, RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	118	121	143	157	157	158	159	160	159	159	155	157
1935	140	157	145	160	166	160	167	167	165	163	162	142
1936	140	133	150	162	168	173	172	169	172	172	168	161
1937	165	130	159	167	170	165	164	164	163	167	165	152
1938	131	153	143	172	175	178	182	184	182	183	182	174
1939	162	148	148	180	181	184	187	188	190	188	186	179
1940	137	143	149	170	170	179	177	176	180	179	181	176
1941	152	130	148	165	177	177	177	173	175	178	181	178
1942	153	114	155	184	186	192	192	190	191	184	187	179
1943	158	148	178	188	202	202	210	211	210	208	206	198
1944	152	165	169	196	198	202	203	199	198	199	195	195
1945	158	157	182	188	199	202	206	202	200	204	196	192
1946	180	168	195	202	201	204	202	199	194	190	188	186
1947	162	152	178	200	196	201	206	206	204	200	201	194
1948	184	175	192	197	208	200	202	200	194	185	181	178
1949	184	180	155	182	180	179	182	182	178	174	170	169
1950	170	152	153	180	176	180	186	187	190	190	187	186
1951	162	167	191	198	204	208	214	216	214	216	218	222
1952	224	210	218	226	224	228	230	232	232	224	218	215
1953	210	206	212	212	218	222	226	224	220	214	212	206
1954	173	165	208	206	210	214	218	215	214	220	217	212
1955	208	190	210	208	210	210	212	204	202	198	192	188
1956	158	140	173	189	207	196	196	200	198	192	188	182
1957	153	154	176	179	181	181	190	185	187	180	180	178
1958	142	132	170	157	178	175	176	174	173	170	165	162
1959	122	132	163	166	171	172	174	175	175	178	180	182
1960	178	152	167	192	194	202	204	206	205	204	200	188
1961	177	183	190	190	189	188	190	191	190	191	190	184
1962	160	146	183	185	188	190	189	187	187	182	178	165
1963	148	132	159	170	171	174	174	174	171	169	166	160
1964	140	130	150	153	159	159	161	163	163	162	161	156
1965	140	144	153	168	168	171	174	175	177	182	181	181
1966	176	168	177	183	185	185	186	184	183	178	177	181
1967	172	162	177	190	185	191	197	195	192	191	194	192

TABLE A-8 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	168	182	186	185	186	192	196	199	198	200	198	197
1969	171	194	192	200	202	206	210	213	210	208	210	202
1970	149	170	196	201	201	205	208	207	207	206	207	205
1971	190	180	208	210	209	214	216	217	216	213	210	207
1972	202	192	203	204	209	214	216	220	222	222	223	218
1973	217	200	223	221	224	228	230	231	229	227	226	221
1974	215	214	220	220	226	228	233	230	227	222	219	214
1975	209	207	205	217	217	222	223	223	224	216	211	209
1976	173	190	215	218	226	223	228	224	216	211	205	185

TABLE A-9

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1900	JAN	193	186	187	197	FEB	183	188	185	192	MAR	192	190	196	192
	APR	196	196	198	201	MAY	206	209	207	206	JUN	209	208	204	210
	JUL	206	206	203	202	AUG	204	204	201	202	SEP	202	202	200	192
	OCT	193	191	192	189	NOV	197	205	198	186	DEC	197	192	191	201
1901	JAN	186	188	197	190	FEB	178	173	172	168	MAR	170	169	172	175
	APR	175	175	170	176	MAY	181	183	180	182	JUN	192	188	191	195
	JUL	196	188	193	192	AUG	190	189	188	190	SEP	191	195	193	188
	OCT	187	191	192	182	NOV	188	193	180	183	DEC	180	189	189	187
1902	JAN	188	189	178	177	FEB	179	170	165	162	MAR	169	173	178	175
	APR	179	186	185	191	MAY	193	191	193	202	JUN	197	199	204	198
	JUL	208	212	214	214	AUG	216	212	210	205	SEP	211	208	200	199
	OCT	210	214	204	203	NOV	202	203	204	203	DEC	201	184	208	210
1903	JAN	197	214	189	189	FEB	184	192	192	189	MAR	192	197	203	208
	APR	208	207	221	220	MAY	224	221	220	216	JUN	216	221	222	222
	JUL	217	218	217	217	AUG	214	212	211	206	SEP	211	211	212	209
	OCT	208	202	212	208	NOV	199	205	205	194	DEC	199	208	199	198
1904	JAN	176	175	173	181	FEB	180	180	180	180	MAR	188	190	195	203
	APR	214	209	221	217	MAY	227	229	229	228	JUN	234	232	234	233
	JUL	227	229	227	226	AUG	224	222	222	220	SEP	220	218	214	216
	OCT	214	209	217	210	NOV	206	210	203	209	DEC	204	195	206	209
1905	JAN	196	195	188	184	FEB	180	181	179	176	MAR	174	175	180	198
	APR	185	187	194	197	MAY	202	207	215	213	JUN	214	219	223	229
	JUL	224	225	226	224	AUG	221	220	221	220	SEP	221	213	220	215
	OCT	216	218	221	201	NOV	210	209	197	208	DEC	210	203	208	218
1906	JAN	213	196	209	200	FEB	203	192	192	190	MAR	190	189	196	187
	APR	192	198	199	200	MAY	207	211	208	205	JUN	210	207	212	214
	JUL	210	211	214	211	AUG	209	209	210	209	SEP	209	205	204	201
	OCT	204	209	195	213	NOV	200	205	210	217	DEC	216	209	210	210

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1907	JAN	214	219	225	219	FEB	215	210	205	197	MAR	204	198	201	207
	APR	204	213	212	209	MAY	216	220	221	222	JUN	223	220	227	229
	JUL	227	227	229	231	AUG	226	220	217	217	SEP	219	221	217	213
	OCT	218	221	215	210	NOV	218	218	207	213	DEC	210	208	219	221
1908	JAN	217	212	223	212	FEB	218	193	200	201	MAR	202	209	212	215
	APR	220	222	222	225	MAY	230	232	233	236	JUN	233	229	229	230
	JUL	228	226	226	222	AUG	224	223	224	213	SEP	218	209	209	215
	OCT	205	204	197	203	NOV	207	206	195	199	DEC	207	196	194	200
1909	JAN	189	182	182	189	FEB	189	185	181	190	MAR	189	192	190	194
	APR	198	196	195	195	MAY	218	218	222	221	JUN	218	223	226	224
	JUL	222	221	221	217	AUG	214	213	212	212	SEP	211	203	201	206
	OCT	197	211	195	192	NOV	193	190	202	189	DEC	202	207	207	192
1910	JAN	184	179	185	180	FEB	178	174	174	174	MAR	184	187	187	191
	APR	191	190	193	201	MAY	209	213	212	215	JUN	213	211	212	210
	JUL	207	209	204	208	AUG	207	201	199	197	SEP	200	195	191	193
	OCT	197	198	198	202	NOV	194	201	194	194	DEC	187	199	189	184
1911	JAN	186	179	178	176	FEB	169	172	170	178	MAR	174	175	177	179
	APR	174	180	182	186	MAY	198	196	195	197	JUN	196	199	196	194
	JUL	191	192	192	196	AUG	186	186	192	185	SEP	182	184	184	184
	OCT	182	185	192	190	NOV	193	200	196	200	DEC	189	185	191	205
1912	JAN	196	193	180	178	FEB	176	173	167	176	MAR	171	172	174	182
	APR	193	194	202	200	MAY	207	213	212	215	JUN	214	210	214	208
	JUL	205	208	204	207	AUG	208	210	209	208	SEP	210	209	209	208
	OCT	206	207	203	205	NOV	209	209	206	212	DEC	207	216	200	199
1913	JAN	193	199	211	217	FEB	236	209	196	200	MAR	202	196	204	222
	APR	235	231	238	238	MAY	243	239	242	240	JUN	240	240	237	236
	JUL	236	235	229	226	AUG	224	220	219	222	SEP	212	208	211	210
	OCT	206	207	206	206	NOV	211	217	210	205	DEC	212	216	205	201

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1914	JAN	194	210	197	195	FEB	202	197	185	183	MAR	185	182	185	181
	APR	195	201	198	199	MAY	208	214	224	224	JUN	220	222	218	220
	JUL	213	212	216	208	AUG	206	210	209	205	SEP	213	200	201	202
	OCT	197	197	197	204	NOV	203	196	207	195	DEC	171	197	204	187
1915	JAN	185	174	176	172	FEB	168	176	178	184	MAR	181	182	181	185
	APR	177	179	177	180	MAY	188	192	191	189	JUN	191	195	195	193
	JUL	195	195	198	197	AUG	202	205	203	203	SEP	201	204	206	199
	OCT	204	200	200	201	NOV	198	199	204	202	DEC	193	194	197	187
1916	JAN	197	200	210	192	FEB	211	195	195	194	MAR	194	191	191	193
	APR	199	205	207	208	MAY	218	220	223	224	JUN	223	227	230	228
	JUL	225	220	222	221	AUG	218	218	214	213	SEP	213	210	210	204
	OCT	199	208	207	201	NOV	198	196	199	208	DEC	198	206	196	195
1917	JAN	195	190	197	183	FEB	189	181	178	179	MAR	180	185	193	199
	APR	199	208	206	206	MAY	214	222	226	227	JUN	230	232	234	238
	JUL	236	239	238	240	AUG	236	234	230	232	SEP	228	225	222	227
	OCT	226	227	217	228	NOV	227	223	223	221	DEC	217	239	212	209
1918	JAN	198	210	193	186	FEB	185	183	189	192	MAR	196	196	206	204
	APR	201	190	197	194	MAY	201	202	204	207	JUN	208	211	208	207
	JUL	210	207	205	205	AUG	206	209	201	205	SEP	206	208	210	210
	OCT	205	208	200	204	NOV	204	206	209	220	DEC	206	196	200	209
1919	JAN	215	211	203	208	FEB	203	196	199	205	MAR	200	197	207	212
	APR	209	210	217	225	MAY	228	227	238	239	JUN	237	235	232	228
	JUL	225	225	222	225	AUG	223	219	223	222	SEP	217	215	214	212
	OCT	209	208	205	206	NOV	206	212	213	208	DEC	203	212	196	197
1920	JAN	192	183	174	172	FEB	164	168	169	165	MAR	166	168	172	177
	APR	179	178	180	194	MAY	201	201	203	204	JUN	205	206	207	209
	JUL	207	208	209	208	AUG	205	207	203	206	SEP	205	206	202	200
	OCT	205	198	198	207	NOV	208	209	191	194	DEC	203	211	210	208

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1921	JAN	202	200	201	184	FEB	192	190	190	189	MAR	187	192	198	202
	APR	204	206	205	213	MAY	218	218	216	219	JUN	213	218	214	215
	JUL	214	212	211	213	AUG	206	204	202	200	SEP	199	199	203	201
	OCT	202	197	197	179	NOV	186	190	189	191	DEC	201	196	204	207
1922	JAN	198	192	188	173	FEB	182	172	171	173	MAR	174	174	182	178
	APR	193	201	212	204	MAY	211	209	213	214	JUN	212	218	214	212
	JUL	209	209	209	204	AUG	207	202	202	201	SEP	201	202	196	196
	OCT	197	198	197	189	NOV	190	190	197	192	DEC	188	189	183	171
1923	JAN	174	184	179	169	FEB	171	174	168	164	MAR	167	172	179	181
	APR	180	173	188	185	MAY	186	196	197	193	JUN	199	196	196	201
	JUL	190	193	190	189	AUG	189	190	187	185	SEP	184	186	179	181
	OCT	183	180	177	179	NOV	177	175	179	179	DEC	180	188	182	196
1924	JAN	199	190	200	188	FEB	173	179	174	174	MAR	175	174	174	179
	APR	182	183	186	189	MAY	197	202	206	209	JUN	200	199	202	209
	JUL	203	207	204	201	AUG	200	200	196	195	SEP	196	198	192	189
	OCT	198	190	190	190	NOV	191	184	189	194	DEC	178	196	182	184
1925	JAN	168	163	164	160	FEB	156	160	158	171	MAR	167	167	174	177
	APR	174	176	170	177	MAY	187	182	184	180	JUN	181	182	182	181
	JUL	176	177	179	175	AUG	177	178	175	169	SEP	172	171	176	172
	OCT	171	172	177	173	NOV	172	178	184	172	DEC	173	174	175	178
1926	JAN	156	144	148	146	FEB	142	141	142	147	MAR	151	150	156	164
	APR	175	175	164	157	MAY	167	166	170	174	JUN	184	181	184	186
	JUL	180	182	179	171	AUG	176	176	175	179	SEP	174	176	176	187
	OCT	190	188	194	196	NOV	197	195	210	195	DEC	186	195	191	180
1927	JAN	181	171	173	177	FEB	178	173	160	180	MAR	170	173	172	181
	APR	177	182	189	191	MAY	192	198	196	202	JUN	203	201	199	201
	JUL	199	197	196	200	AUG	199	194	193	190	SEP	188	189	194	187
	OCT	189	188	180	179	NOV	182	181	186	189	DEC	207	204	210	207

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1928	JAN	206	191	202	181	FEB	169	186	191	181	MAR	179	182	183	183
	APR	186	182	182	193	MAY	192	193	198	201	JUN	201	207	210	219
	JUL	211	210	212	213	AUG	212	203	206	204	SEP	204	203	196	203
	OCT	194	195	201	198	NOV	197	197	205	204	DEC	204	192	210	201
1929	JAN	211	194	191	183	FEB	188	190	190	195	MAR	208	198	206	205
	APR	220	215	230	244	MAY	256	247	251	249	JUN	247	245	246	249
	JUL	249	244	240	243	AUG	240	238	231	229	SEP	228	234	221	218
	OCT	217	217	218	221	NOV	220	217	226	245	DEC	223	209	217	220
1930	JAN	224	232	234	207	FEB	214	217	213	221	MAR	224	230	225	223
	APR	220	215	220	222	MAY	237	237	238	239	JUN	239	235	238	237
	JUL	232	229	228	225	AUG	224	218	209	215	SEP	211	209	213	220
	OCT	201	202	214	201	NOV	202	195	199	208	DEC	194	195	193	200
1931	JAN	188	192	190	176	FEB	174	177	178	175	MAR	168	169	166	172
	APR	173	175	177	189	MAY	183	184	186	188	JUN	188	187	185	182
	JUL	184	183	188	187	AUG	182	181	180	185	SEP	181	180	178	179
	OCT	177	173	177	176	NOV	178	171	171	181	DEC	182	173	177	170
1932	JAN	181	182	194	205	FEB	191	204	194	191	MAR	193	183	174	182
	APR	179	190	186	185	MAY	188	196	192	195	JUN	194	192	192	191
	JUL	192	191	189	188	AUG	185	182	183	182	SEP	179	175	174	176
	OCT	178	175	164	173	NOV	166	177	167	168	DEC	174	177	168	168
1933	JAN	178	176	178	171	FEB	180	162	156	164	MAR	161	153	160	168
	APR	161	155	176	192	MAY	189	196	200	201	JUN	200	199	196	192
	JUL	189	186	186	184	AUG	182	182	176	175	SEP	176	167	178	173
	OCT	169	175	171	164	NOV	159	172	164	169	DEC	161	158	161	161
1934	JAN	153	165	155	156	FEB	146	142	142	143	MAR	147	144	144	144
	APR	150	159	158	163	MAY	161	163	163	160	JUN	160	164	161	158
	JUL	158	157	156	156	AUG	158	157	160	156	SEP	156	156	157	159
	OCT	158	153	152	159	NOV	154	156	149	145	DEC	159	152	150	150

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1935	JAN	154	156	146	144	FEB	141	143	152	144	MAR	144	151	155	148
	APR	143	156	160	160	MAY	159	167	168	169	JUN	170	170	170	169
	JUL	164	168	169	170	AUG	171	173	170	170	SEP	167	165	165	165
	OCT	168	157	158	160	NOV	160	152	159	165	DEC	162	154	161	154
1936	JAN	151	154	149	120	FEB	116	110	116	130	MAR	138	152	154	179
	APR	173	169	174	168	MAY	173	171	173	180	JUN	181	179	176	178
	JUL	175	174	170	172	AUG	168	167	166	168	SEP	166	165	163	162
	OCT	166	169	168	170	NOV	167	173	173	171	DEC	160	160	162	162
1937	JAN	169	173	180	187	FEB	186	187	176	193	MAR	179	172	182	175
	APR	184	181	188	195	MAY	200	201	204	201	JUN	202	199	206	208
	JUL	209	208	210	213	AUG	204	206	201	198	SEP	195	199	192	184
	OCT	184	183	187	184	NOV	186	178	180	184	DEC	182	178	172	170
1938	JAN	168	156	151	163	FEB	155	164	158	175	MAR	179	173	180	176
	APR	181	197	197	198	MAY	197	199	200	198	JUN	202	199	199	190
	JUL	193	197	196	198	AUG	201	204	201	195	SEP	191	188	196	191
	OCT	183	187	187	186	NOV	184	195	182	189	DEC	183	189	177	192
1939	JAN	174	175	178	163	FEB	171	165	166	171	MAR	179	168	179	183
	APR	187	188	176	188	MAY	194	203	200	202	JUN	203	206	201	203
	JUL	202	201	192	196	AUG	200	203	198	192	SEP	194	192	189	185
	OCT	186	195	189	184	NOV	187	186	177	177	DEC	185	182	187	181
1940	JAN	169	173	159	158	FEB	161	160	158	166	MAR	164	165	169	168
	APR	186	186	180	187	MAY	189	189	192	197	JUN	200	201	200	210
	JUL	203	197	197	197	AUG	192	189	192	188	SEP	194	196	191	190
	OCT	190	188	186	180	NOV	193	189	190	187	DEC	192	184	191	191
1941	JAN	198	189	190	174	FEB	182	184	191	174	MAR	172	174	179	177
	APR	178	180	181	180	MAY	182	184	186	184	JUN	184	184	186	183
	JUL	181	181	186	184	AUG	181	181	180	180	SEP	180	179	174	177
	OCT	177	177	171	172	NOV	186	183	175	179	DEC	173	178	171	174

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1942	JAN	188	158	155	152	FEB	160	156	168	168	MAR	164	184	183	166
	APR	181	189	193	194	MAY	198	196	203	204	JUN	204	204	205	203
	JUL	203	201	203	202	AUG	203	203	207	200	SEP	198	202	199	204
	OCT	196	188	200	202	NOV	196	209	194	206	DEC	218	202	192	194
1943	JAN	197	202	169	182	FEB	201	193	183	198	MAR	186	190	203	200
	APR	199	194	195	201	MAY	212	218	230	236	JUN	241	240	243	240
	JUL	234	237	237	234	AUG	236	236	233	225	SEP	231	227	222	220
	OCT	216	212	222	209	NOV	217	225	214	214	DEC	212	222	223	194
1944	JAN	198	192	194	194	FEB	196	184	190	196	MAR	190	190	194	200
	APR	195	203	213	219	MAY	220	224	220	225	JUN	228	224	227	228
	JUL	222	219	217	217	AUG	212	215	214	211	SEP	216	207	207	206
	OCT	205	206	202	199	NOV	197	195	197	198	DEC	197	200	204	194
1945	JAN	184	174	180	184	FEB	180	180	183	195	MAR	199	197	200	204
	APR	204	208	214	218	MAY	219	217	228	228	JUN	224	226	227	224
	JUL	225	225	224	223	AUG	224	225	221	222	SEP	219	222	215	218
	OCT	238	229	225	227	NOV	222	220	227	216	DEC	216	224	218	214
1946	JAN	213	220	203	200	FEB	202	200	199	195	MAR	205	210	201	200
	APR	212	209	210	209	MAY	209	212	216	215	JUN	220	220	224	223
	JUL	220	218	219	218	AUG	217	219	219	215	SEP	210	207	206	207
	OCT	201	202	201	203	NOV	203	206	206	203	DEC	196	210	203	201
1947	JAN	201	187	198	190	FEB	192	177	177	186	MAR	185	188	190	196
	APR	200	192	172	194	MAY	205	223	236	243	JUN	250	253	249	246
	JUL	242	236	237	239	AUG	232	231	227	229	SEP	231	231	227	220
	OCT	219	213	216	210	NOV	213	217	211	222	DEC	218	215	218	209
1948	JAN	204	215	200	183	FEB	191	196	205	204	MAR	201	203	216	220
	APR	224	225	228	226	MAY	233	235	242	237	JUN	236	236	229	234
	JUL	231	223	226	231	AUG	224	224	222	220	SEP	215	217	211	204
	OCT	202	217	205	201	NOV	206	212	210	202	DEC	207	197	205	200

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1949	JAN	211	205	206	206	FEB	209	203	215	214	MAR	209	210	205	201
	APR	206	206	211	208	MAY	210	205	208	214	JUN	208	204	203	203
	JUL	198	200	202	205	AUG	201	197	194	197	SEP	200	194	199	192
	OCT	188	187	189	187	NOV	187	184	192	181	DEC	188	183	185	188
1950	JAN	190	212	210	203	FEB	206	196	218	207	MAR	199	208	202	219
	APR	214	214	216	210	MAY	227	226	222	222	JUN	226	223	220	220
	JUL	216	213	209	213	AUG	211	205	204	203	SEP	202	204	204	205
	OCT	202	208	200	202	NOV	202	209	209	213	DEC	211	218	218	212
1951	JAN	214	213	216	202	FEB	201	202	209	215	MAR	206	207	212	218
	APR	218	238	243	237	MAY	240	238	239	242	JUN	239	238	236	234
	JUL	234	230	230	228	AUG	227	223	227	221	SEP	220	220	221	221
	OCT	217	214	213	222	NOV	220	222	220	222	DEC	217	228	235	220
1952	JAN	229	228	242	238	FEB	242	238	238	240	MAR	239	242	246	250
	APR	254	250	258	253	MAY	256	264	256	260	JUN	257	254	247	244
	JUL	241	241	243	241	AUG	238	240	240	237	SEP	238	237	240	234
	OCT	233	224	231	226	NOV	226	216	213	230	DEC	218	228	220	226
1953	JAN	215	217	222	229	FEB	223	225	230	231	MAR	227	218	225	234
	APR	227	231	236	230	MAY	230	232	236	236	JUN	237	234	232	228
	JUL	233	230	229	231	AUG	228	233	230	229	SEP	227	230	222	222
	OCT	215	213	212	214	NOV	212	212	212	218	DEC	219	219	222	224
1954	JAN	207	205	196	207	FEB	200	198	208	200	MAR	225	206	213	218
	APR	225	226	231	230	MAY	239	238	234	231	JUN	235	229	224	222
	JUL	220	220	219	221	AUG	225	226	222	221	SEP	222	213	225	217
	OCT	217	223	238	235	NOV	236	227	226	239	DEC	229	230	234	232
1955	JAN	234	237	237	229	FEB	217	228	224	229	MAR	233	235	246	234
	APR	244	242	244	246	MAY	250	244	242	243	JUN	236	237	235	231
	JUL	229	223	226	222	AUG	225	219	225	224	SEP	220	217	210	214
	OCT	215	218	220	221	NOV	220	214	230	227	DEC	215	213	210	208

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1956	JAN	191	192	192	191	FEB	187	189	185	192	MAR	197	203	185	201
	APR	204	204	217	212	MAY	220	232	236	232	JUN	232	229	221	224
	JUL	217	225	221	220	AUG	215	226	227	227	SEP	228	223	224	215
	OCT	217	210	205	200	NOV	204	208	214	204	DEC	198	201	200	209
1957	JAN	204	196	197	198	FEB	191	193	195	189	MAR	193	199	193	188
	APR	203	219	212	216	MAY	217	216	214	220	JUN	216	214	214	220
	JUL	222	223	220	216	AUG	215	212	207	208	SEP	211	206	208	206
	OCT	195	196	195	200	NOV	198	207	207	198	DEC	195	200	199	204
1958	JAN	208	194	194	189	FEB	186	186	178	178	MAR	186	183	185	179
	APR	183	185	185	187	MAY	186	192	192	190	JUN	188	191	191	195
	JUL	194	194	193	192	AUG	192	195	194	192	SEP	191	191	188	190
	OCT	187	188	180	182	NOV	181	180	188	191	DEC	187	182	175	168
1959	JAN	168	166	176	171	FEB	171	173	182	179	MAR	186	183	193	183
	APR	203	195	190	188	MAY	197	206	206	207	JUN	208	205	202	200
	JUL	200	195	190	191	AUG	187	190	190	189	SEP	189	183	180	177
	OCT	181	196	185	185	NOV	194	187	192	195	DEC	194	194	187	188
1960	JAN	210	190	202	194	FEB	194	202	201	193	MAR	181	184	192	197
	APR	206	194	200	199	MAY	210	219	217	216	JUN	219	216	220	224
	JUL	222	216	214	210	AUG	211	210	210	210	SEP	211	212	207	207
	OCT	206	203	206	200	NOV	211	203	206	210	DEC	202	199	206	191
1961	JAN	189	179	185	192	FEB	185	184	188	198	MAR	193	200	196	199
	APR	203	206	217	230	MAY	233	230	232	232	JUN	231	226	225	227
	JUL	223	220	218	218	AUG	218	222	210	216	SEP	215	217	209	216
	OCT	207	205	198	205	NOV	201	193	196	198	DEC	210	202	189	199
1962	JAN	196	177	172	182	FEB	175	177	177	179	MAR	175	193	196	195
	APR	196	196	193	195	MAY	206	201	202	202	JUN	198	194	198	194
	JUL	186	194	192	196	AUG	192	189	189	188	SEP	185	192	189	183
	OCT	185	184	188	188	NOV	177	176	183	178	DEC	189	200	184	184

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1963	JAN	178	189	170	153	FEB	156	166	165	163	MAR	168	175	191	188
	APR	188	187	182	180	MAY	183	194	200	196	JUN	195	200	195	190
	JUL	188	184	183	182	AUG	186	185	180	173	SEP	172	167	166	167
	OCT	168	163	159	159	NOV	164	169	170	170	DEC	163	174	170	164
1964	JAN	156	136	142	141	FEB	132	141	148	157	MAR	159	161	167	176
	APR	176	178	174	182	MAY	187	192	191	191	JUN	185	186	184	185
	JUL	182	178	176	173	AUG	171	174	174	175	SEP	170	165	164	173
	OCT	167	164	162	160	NOV	153	156	167	153	DEC	148	160	158	155
1965	JAN	158	166	150	164	FEB	153	172	170	170	MAR	168	176	179	172
	APR	180	179	178	172	MAY	177	187	194	195	JUN	190	192	192	191
	JUL	189	188	181	180	AUG	182	182	177	180	SEP	177	177	179	177
	OCT	184	185	173	189	NOV	177	176	186	192	DEC	184	176	179	179
1966	JAN	187	186	180	172	FEB	178	184	191	182	MAR	194	184	187	194
	APR	197	190	187	192	MAY	207	202	208	208	JUN	206	204	206	203
	JUL	201	203	200	199	AUG	197	197	200	200	SEP	198	190	186	193
	OCT	191	187	185	179	NOV	186	183	181	185	DEC	188	194	200	208
1967	JAN	196	199	195	193	FEB	183	195	195	190	MAR	183	182	191	192
	APR	200	204	212	206	MAY	209	218	218	209	JUN	211	208	201	203
	JUL	205	208	207	207	AUG	204	202	201	202	SEP	201	192	194	199
	OCT	195	202	205	208	NOV	204	208	209	209	DEC	196	202	211	213
1968	JAN	200	178	209	205	FEB	225	224	220	212	MAR	205	203	213	216
	APR	218	217	210	214	MAY	219	219	224	218	JUN	225	222	218	224
	JUL	227	221	221	219	AUG	217	215	218	218	SEP	218	218	210	215
	OCT	215	206	210	211	NOV	198	200	219	212	DEC	225	207	214	217
1969	JAN	205	203	203	210	FEB	216	215	214	211	MAR	210	214	212	216
	APR	220	211	221	237	MAY	235	247	247	248	JUN	249	243	241	241
	JUL	240	244	239	243	AUG	242	239	239	235	SEP	231	237	226	228
	OCT	226	224	234	217	NOV	217	222	227	224	DEC	219	226	221	208

TABLE A-9 (CONTINUED)

LAKE ERIE QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1970	JAN	214	202	195	200	FEB	208	205	204	205	MAR	201	205	207	211
	APR	221	214	216	220	MAY	228	224	230	229	JUN	227	223	226	223
	JUL	225	222	228	224	AUG	220	214	217	221	SEP	222	216	218	221
	OCT	221	214	217	210	NOV	218	211	234	219	DEC	225	213	216	224
1971	JAN	221	206	221	225	FEB	203	213	209	224	MAR	220	215	224	217
	APR	221	220	218	219	MAY	224	219	220	235	JUN	235	234	233	230
	JUL	226	221	223	222	AUG	218	221	220	220	SEP	220	218	217	216
	OCT	220	222	211	214	NOV	223	211	216	207	DEC	206	218	224	222
1972	JAN	224	225	223	216	FEB	214	206	215	214	MAR	221	217	231	227
	APR	225	227	232	235	MAY	239	244	245	243	JUN	247	243	242	249
	JUL	244	245	246	243	AUG	240	241	238	240	SEP	235	234	235	238
	OCT	239	240	238	234	NOV	237	231	244	263	DEC	245	252	260	252
1973	JAN	257	241	242	239	FEB	241	235	238	233	MAR	246	254	270	262
	APR	276	273	270	270	MAY	275	275	270	268	JUN	273	274	269	272
	JUL	275	274	261	265	AUG	262	259	255	258	SEP	257	250	248	240
	OCT	244	248	243	231	NOV	254	239	236	243	DEC	242	239	235	248
1974	JAN	242	234	229	254	FEB	235	248	244	253	MAR	252	252	266	256
	APR	272	274	271	270	MAY	270	278	274	274	JUN	269	269	268	264
	JUL	269	261	254	251	AUG	250	246	248	245	SEP	237	246	239	242
	OCT	238	233	233	228	NOV	226	242	242	232	DEC	225	241	245	243
1975	JAN	242	251	245	249	FEB	239	239	239	254	MAR	239	235	244	253
	APR	257	253	257	251	MAY	254	254	252	252	JUN	256	253	255	252
	JUL	251	247	247	245	AUG	241	244	240	245	SEP	252	250	250	241
	OCT	246	244	236	239	NOV	240	247	240	237	DEC	238	233	239	233
1976	JAN	241	232	222	229	FEB	230	231	241	246	MAR	256	262	258	255
	APR	264	271	262	263	MAY	269	267	268	260	JUN	256	256	253	257
	JUL	259	257	255	250	AUG	244	248	247	244	SEP	243	245	246	240
	OCT	236	242	241	233	NOV	236	234	231	231	DEC	221	226	218	198

TABLE A-10

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	191	187	192	198	207	208	204	203	199	191	196	195
1901	190	173	171	174	182	192	192	189	192	188	186	186
1902	183	169	174	185	195	200	212	211	204	208	203	201
1903	197	189	200	214	220	220	217	211	211	207	201	201
1904	176	180	194	215	228	233	227	222	217	213	207	204
1905	191	179	182	191	209	221	225	221	217	214	206	210
1906	205	194	190	198	207	211	211	209	205	206	208	212
1907	219	207	202	210	220	225	228	220	218	216	214	215
1908	216	203	209	222	233	230	225	221	213	202	202	199
1909	185	186	191	196	220	223	220	213	205	199	193	202
1910	182	175	187	194	212	211	207	201	194	199	196	190
1911	180	172	176	181	197	196	193	187	183	187	197	192
1912	187	173	175	197	212	212	206	208	209	205	209	206
1913	205	210	206	236	241	238	232	222	210	206	211	209
1914	199	192	183	198	218	220	212	208	204	199	200	190
1915	177	177	182	178	190	194	196	203	202	201	200	192
1916	200	199	192	204	221	227	222	216	209	204	200	199
1917	191	182	189	205	222	234	238	233	225	225	224	219
1918	197	187	200	196	204	209	207	205	209	204	210	203
1919	209	201	204	215	233	233	224	222	214	207	210	202
1920	180	166	171	183	202	206	208	205	203	202	201	208
1921	197	190	195	207	218	215	212	203	200	194	189	202
1922	188	175	177	203	212	214	208	203	199	195	192	183
1923	176	169	175	181	193	198	190	188	183	180	177	186
1924	194	175	175	185	203	202	204	198	194	192	189	185
1925	164	161	171	174	183	181	177	175	173	173	177	175
1926	148	143	156	168	169	184	178	176	178	192	200	188
1927	176	173	174	185	197	201	198	194	190	184	184	205
1928	195	182	182	186	196	209	212	206	201	197	201	202
1929	195	191	204	227	250	247	244	234	225	218	226	217
1930	224	216	225	219	238	238	228	216	213	205	201	196
1931	186	176	168	178	185	185	186	182	180	176	175	176
1932	191	195	183	185	192	192	190	183	176	172	169	172
1933	176	165	161	171	197	197	186	179	174	170	166	160

TABLE A-10 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	157	143	145	157	162	161	157	158	157	156	151	153
1935	150	145	150	155	166	170	168	171	166	161	159	158
1936	143	118	156	171	174	178	173	167	164	168	171	161
1937	177	186	177	187	202	204	210	202	192	184	182	175
1938	160	163	177	193	198	198	196	200	192	186	187	185
1939	172	168	178	184	200	203	198	198	190	188	182	184
1940	165	162	167	185	192	203	198	190	193	186	190	189
1941	188	183	176	180	184	184	183	180	178	174	181	174
1942	164	163	174	189	200	204	202	203	200	197	201	201
1943	187	194	195	197	224	241	236	232	225	215	218	213
1944	195	191	193	207	222	227	219	213	209	203	197	199
1945	180	184	200	211	223	225	224	223	218	230	221	218
1946	209	199	204	210	213	222	219	218	207	202	204	202
1947	194	183	190	189	227	249	239	230	227	214	216	215
1948	200	199	210	226	237	234	228	222	212	206	208	202
1949	207	210	206	208	209	205	201	197	197	188	186	186
1950	203	207	207	214	224	222	213	206	204	203	208	214
1951	211	206	211	234	240	237	230	225	221	217	221	225
1952	234	239	244	254	259	251	241	239	237	229	221	223
1953	221	227	226	231	234	233	231	230	225	214	213	221
1954	204	202	216	228	235	228	220	224	220	229	232	231
1955	234	224	237	244	245	235	225	223	215	218	223	212
1956	192	188	196	210	230	227	221	224	223	208	208	202
1957	199	192	193	212	217	216	220	211	208	197	202	200
1958	196	182	184	185	190	191	193	193	190	184	185	178
1959	170	176	186	194	204	204	194	189	182	186	192	190
1960	199	197	189	200	215	220	216	211	209	204	208	200
1961	186	189	197	214	232	227	220	217	214	204	197	200
1962	182	177	190	195	203	196	192	189	187	186	178	189
1963	172	163	180	184	193	195	184	181	168	162	168	168
1964	144	145	166	178	190	185	177	173	168	163	157	155
1965	159	166	174	177	188	191	184	180	178	183	183	180
1966	181	184	190	192	207	205	201	198	192	186	184	198
1967	196	191	187	206	214	206	207	202	197	203	208	206

TABLE A-10 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	199	220	209	215	220	222	222	217	215	211	208	216
1969	205	214	213	222	244	244	241	239	231	226	223	218
1970	203	206	206	218	227	226	225	218	219	215	221	220
1971	219	212	219	220	225	233	224	220	218	217	215	217
1972	222	212	224	230	242	245	245	240	235	238	244	252
1973	245	237	258	272	272	272	269	258	249	241	243	241
1974	240	245	257	272	274	268	258	247	241	233	235	238
1975	246	243	243	254	253	254	248	242	248	241	241	236
1976	231	237	258	265	266	255	255	246	243	238	233	-1

TABLE A-11

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1900	JAN	214	206	205	206	FEB	205	210	211	211	MAR	212	212	214	220
	APR	232	239	243	244	MAY	246	246	245	244	JUN	246	247	243	248
	JUL	243	247	246	243	AUG	239	241	235	233	SEP	233	230	230	226
	OCT	225	221	225	213	NOV	221	218	216	209	DEC	222	220	222	224
1901	JAN	220	212	204	220	FEB	212	211	208	205	MAR	202	202	203	217
	APR	228	234	234	245	MAY	246	247	243	239	JUN	250	246	245	249
	JUL	245	244	241	238	AUG	238	238	233	233	SEP	230	229	233	225
	OCT	226	224	224	218	NOV	215	211	210	207	DEC	207	218	218	219
1902	JAN	218	212	209	204	FEB	203	184	184	185	MAR	204	216	233	234
	APR	236	234	238	242	MAY	241	239	238	240	JUN	242	242	242	245
	JUL	245	248	250	251	AUG	253	252	250	245	SEP	248	248	240	233
	OCT	238	239	232	232	NOV	231	229	228	231	DEC	224	219	227	227
1903	JAN	224	227	216	216	FEB	220	221	219	221	MAR	224	236	243	256
	APR	255	254	259	262	MAY	262	261	259	258	JUN	255	257	257	261
	JUL	262	263	258	259	AUG	259	258	257	248	SEP	252	250	250	248
	OCT	242	236	242	235	NOV	229	234	223	221	DEC	219	223	222	214
1904	JAN	200	208	203	201	FEB	205	207	208	205	MAR	211	216	231	232
	APR	248	257	259	260	MAY	266	268	271	276	JUN	275	277	[illegible]	280
	JUL	278	280	277	277	AUG	275	273	272	271	SEP	266	264	26[illegible]	263
	OCT	259	250	257	253	NOV	247	246	240	238	DEC	235	225	229	198
1905	JAN	202	209	213	211	FEB	222	219	218	214	MAR	212	209	208	217
	APR	237	238	239	238	MAY	239	242	242	243	JUN	243	249	252	255
	JUL	257	260	260	260	AUG	258	255	257	256	SEP	256	254	254	252
	OCT	250	248	248	243	NOV	241	244	238	239	DEC	238	230	233	241
1906	JAN	245	238	242	243	FEB	235	235	233	232	MAR	232	233	232	232
	APR	238	239	243	244	MAY	245	245	246	240	JUN	246	246	247	247
	JUL	249	250	251	248	AUG	246	244	242	239	SEP	239	234	232	230
	OCT	230	231	228	235	NOV	227	227	231	232	DEC	224	227	229	226

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1907	JAN	233	232	203	224	FEB	229	232	229	227	MAR	229	227	236	248
	APR	251	256	258	254	MAY	257	262	262	261	JUN	262	260	262	263
	JUL	262	262	262	265	AUG	262	259	257	254	SEP	250	251	246	247
	OCT	248	249	247	243	NOV	247	246	246	240	DEC	242	239	247	248
1908	JAN	254	246	229	204	FEB	221	228	232	242	MAR	245	242	246	260
	APR	272	282	278	280	MAY	286	292	293	295	JUN	294	295	293	297
	JUL	290	291	288	284	AUG	282	282	281	271	SEP	270	263	258	257
	OCT	254	250	242	241	NOV	241	241	234	234	DEC	231	226	223	226
1909	JAN	224	217	206	215	FEB	214	214	198	207	MAR	220	220	224	232
	APR	238	240	244	243	MAY	260	258	264	264	JUN	264	266	270	264
	JUL	262	264	263	265	AUG	259	255	255	254	SEP	252	244	241	239
	OCT	240	240	235	230	NOV	228	224	225	221	DEC	226	225	222	216
1910	JAN	214	206	204	213	FEB	209	206	192	194	MAR	213	227	233	238
	APR	237	238	235	240	MAY	245	249	248	250	JUN	252	250	250	247
	JUL	246	247	244	246	AUG	245	242	239	239	SEP	233	234	229	226
	OCT	229	227	224	224	NOV	221	223	219	216	DEC	216	215	214	210
1911	JAN	209	209	199	202	FEB	196	203	199	203	MAR	206	201	206	211
	APR	219	224	226	228	MAY	234	232	229	231	JUN	231	233	233	231
	JUL	230	231	230	233	AUG	226	224	224	217	SEP	216	216	214	211
	OCT	210	210	211	213	NOV	210	212	213	210	DEC	211	210	212	214
1912	JAN	216	203	199	193	FEB	191	189	196	188	MAR	195	196	199	203
	APR	215	233	247	251	MAY	249	253	255	264	JUN	269	270	269	264
	JUL	263	260	256	257	AUG	254	254	250	251	SEP	248	249	245	245
	OCT	248	242	241	241	NOV	243	237	244	240	DEC	245	248	239	241
1913	JAN	238	244	250	256	FEB	248	239	245	241	MAR	241	242	252	260
	APR	272	273	278	270	MAY	282	278	280	280	JUN	284	282	279	275
	JUL	280	281	274	267	AUG	266	268	262	263	SEP	256	250	248	253
	OCT	244	244	245	241	NOV	245	242	242	237	DEC	240	243	237	235

TABLE A-1: (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1914	JAN	224	230	225	226	FEB	224	210	220	206	MAR	209	212	220	229
	APR	248	262	252	250	MAY	254	255	259	260	JUN	256	259	257	255
	JUL	254	252	254	249	AUG	248	245	246	241	SEP	248	239	240	235
	OCT	230	231	227	229	NOV	227	222	232	224	DEC	210	217	217	217
1915	JAN	215	214	213	210	FEB	195	197	208	212	MAR	219	221	224	224
	APR	222	225	221	222	MAY	220	224	220	220	JUN	219	220	220	222
	JUL	222	223	221	220	AUG	220	229	229	229	SEP	228	228	231	228
	OCT	225	225	225	224	NOV	220	221	219	217	DEC	214	213	212	211
1916	JAN	217	218	218	220	FEB	219	213	218	216	MAR	216	214	213	213
	APR	236	245	246	253	MAY	257	260	265	268	JUN	269	272	280	281
	JUL	280	278	277	274	AUG	269	269	264	262	SEP	257	252	251	248
	OCT	243	240	239	234	NOV	231	229	228	230	DEC	226	224	223	219
1917	JAN	221	215	211	212	FEB	225	226	222	224	MAR	219	215	213	238
	APR	239	244	244	243	MAY	245	244	243	246	JUN	252	256	261	260
	JUL	265	266	270	270	AUG	269	267	268	265	SEP	261	258	253	255
	OCT	254	253	251	253	NOV	253	253	249	248	DEC	246	251	247	239
1918	JAN	241	232	226	222	FEB	215	225	224	228	MAR	234	233	243	254
	APR	258	252	258	262	MAY	260	260	260	259	JUN	261	260	259	257
	JUL	259	257	256	255	AUG	250	250	245	245	SEP	243	242	242	243
	OCT	237	239	235	236	NOV	236	238	237	244	DEC	234	233	235	234
1919	JAN	239	236	238	241	FEB	238	233	234	236	MAR	235	235	240	242
	APR	243	250	254	258	MAY	260	261	270	278	JUN	278	279	277	276
	JUL	275	275	273	275	AUG	268	264	265	266	SEP	259	254	254	253
	OCT	246	248	243	242	NOV	238	242	242	236	DEC	235	237	231	229
1920	JAN	226	218	202	202	FEB	199	206	208	203	MAR	200	201	207	225
	APR	228	230	227	231	MAY	230	230	229	228	JUN	228	228	229	231
	JUL	231	232	232	234	AUG	232	231	227	228	SEP	227	226	228	223
	OCT	227	222	221	223	NOV	224	225	221	218	DEC	222	224	230	228

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1921	JAN	233	233	229	216	FEB	223	221	220	221	MAR	225	233	239	243
	APR	244	245	241	249	MAY	250	252	252	251	JUN	250	251	251	247
	JUL	247	245	244	244	AUG	241	238	236	230	SEP	228	225	226	225
	OCT	223	222	221	212	NOV	210	211	213	206	DEC	216	213	217	212
1922	JAN	210	209	209	205	FEB	206	202	194	190	MAR	201	213	220	219
	APR	229	236	248	248	MAY	248	247	248	248	JUN	249	252	251	256
	JUL	258	258	258	252	AUG	250	249	248	244	SEP	238	239	236	235
	OCT	229	232	230	224	NOV	219	221	220	216	DEC	214	213	209	196
1923	JAN	194	200	205	201	FEB	202	201	189	191	MAR	192	194	198	200
	APR	210	221	226	225	MAY	225	227	231	231	JUN	233	236	236	238
	JUL	234	232	232	227	AUG	227	225	226	224	SEP	219	219	213	214
	OCT	213	209	206	206	NOV	205	203	203	203	DEC	205	210	207	205
1924	JAN	212	210	216	201	FEB	199	204	202	204	MAR	203	206	208	213
	APR	219	223	226	229	MAY	232	232	246	247	JUN	244	242	241	245
	JUL	241	244	243	240	AUG	239	240	238	237	SEP	233	233	227	225
	OCT	233	225	224	221	NOV	223	217	216	217	DEC	209	213	205	204
1925	JAN	196	181	177	176	FEB	181	189	190	192	MAR	198	211	223	227
	APR	228	227	225	227	MAY	233	229	229	227	JUN	228	228	226	224
	JUL	223	221	222	221	AUG	219	218	216	211	SEP	207	207	211	207
	OCT	204	204	205	203	NOV	202	204	212	206	DEC	207	214	212	208
1926	JAN	203	196	195	186	FEB	175	177	182	184	MAR	185	186	184	190
	APR	198	212	222	224	MAY	225	225	226	223	JUN	225	220	226	226
	JUL	222	225	222	218	AUG	218	218	214	218	SEP	213	216	212	216
	OCT	216	217	216	222	NOV	222	223	230	232	DEC	226	232	228	224
1927	JAN	220	215	204	206	FEB	206	205	194	195	MAR	204	214	229	237
	APR	234	236	237	238	MAY	236	236	237	240	JUN	244	244	239	241
	JUL	240	238	238	240	AUG	240	235	232	228	SEP	228	224	224	220
	OCT	221	221	214	213	NOV	214	214	217	219	DEC	228	231	236	236

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1928	[illegible]	243	236	236	229	FEB	230	228	233	232	MAR	229	224	233	239
	[illegible]	243	249	248	249	MAY	251	249	248	250	JUN	248	252	247	252
	JUL	253	255	254	253	AUG	253	251	250	250	SEP	249	242	239	238
	OCT	234	232	235	233	NOV	231	230	231	231	DEC	235	231	237	236
1929	JAN	235	224	230	234	FEB	231	230	231	227	MAR	230	232	244	247
	APR	254	258	264	274	MAY	281	284	288	290	JUN	288	287	287	288
	JUL	288	286	282	285	AUG	284	280	276	273	SEP	271	271	266	259
	OCT	257	257	253	253	NOV	252	249	250	259	DEC	245	241	228	238
1930	JAN	245	248	254	250	FEB	249	253	250	255	MAR	260	271	274	273
	APR	279	277	278	278	MAY	280	276	280	282	JUN	281	278	280	282
	JUL	280	280	279	276	AUG	273	270	261	261	SEP	258	252	253	254
	OCT	245	242	244	236	NOV	235	229	228	230	DEC	224	222	222	221
1931	JAN	215	217	214	209	FEB	207	204	203	205	MAR	202	205	206	209
	APR	212	218	216	220	MAY	218	215	219	224	JUN	225	224	225	225
	JUL	221	221	220	222	AUG	218	212	212	209	SEP	210	209	205	204
	OCT	205	200	201	198	NOV	199	196	195	200	DEC	197	193	195	192
1932	JAN	194	201	206	214	FEB	211	218	220	217	MAR	219	222	217	219
	APR	226	233	237	238	MAY	237	239	241	241	JUN	239	238	236	236
	JUL	237	237	233	232	AUG	230	230	228	226	SEP	222	217	214	212
	OCT	212	214	204	204	NOV	203	205	203	205	DEC	206	204	202	202
1933	JAN	206	206	205	199	FEB	205	194	197	195	MAR	194	197	196	201
	APR	207	210	211	220	MAY	218	222	223	225	JUN	225	227	223	222
	JUL	218	218	217	214	AUG	212	210	207	205	SEP	205	202	201	200
	OCT	194	196	194	188	NOV	185	185	183	184	DEC	184	180	184	169
1934	JAN	169	175	167	166	FEB	168	174	175	175	MAR	176	182	186	188
	APR	196	201	205	211	MAY	207	209	206	204	JUN	200	204	203	202
	JUL	200	196	194	192	AUG	190	186	187	182	SEP	179	178	181	181
	OCT	179	174	172	176	NOV	172	169	169	168	DEC	173	169	167	171

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1935	JAN	162	163	169	169	FEB	165	169	170	170	MAR	169	173	181	186
	APR	184	184	189	191	MAY	191	195	195	195	JUN	196	197	199	204
	JUL	200	203	203	202	AUG	200	199	195	194	SEP	191	188	187	187
	OCT	189	181	180	180	NOV	180	173	174	177	DEC	176	173	176	175
1936	JAN	175	176	170	155	FEB	152	151	155	158	MAR	161	169	184	203
	APR	213	215	224	221	MAY	222	223	223	222	JUN	221	217	216	216
	JUL	215	212	208	210	AUG	206	201	197	197	SEP	197	194	194	194
	OCT	194	195	193	192	NOV	193	195	193	191	DEC	187	185	186	187
1937	JAN	191	197	200	203	FEB	202	207	205	212	MAR	211	209	212	206
	APR	215	216	216	221	MAY	228	230	236	237	JUN	237	237	235	236
	JUL	237	234	238	239	AUG	233	234	231	228	SEP	225	225	224	217
	OCT	215	213	213	215	NOV	215	211	215	217	DEC	214	214	209	204
1938	JAN	198	198	192	195	FEB	197	202	201	205	MAR	187	199	213	230
	APR	231	230	235	236	MAY	236	234	235	235	JUN	237	235	234	228
	JUL	228	230	229	230	AUG	232	231	230	225	SEP	221	217	221	222
	OCT	216	217	214	213	NOV	212	216	210	208	DEC	207	208	203	208
1939	JAN	196	202	199	194	FEB	193	189	171	180	MAR	190	195	199	202
	APR	222	231	234	235	MAY	239	241	238	239	JUN	238	239	236	236
	JUL	238	237	232	231	AUG	232	235	229	225	SEP	223	220	217	213
	OCT	213	217	212	208	NOV	208	206	199	197	DEC	200	196	198	197
1940	JAN	195	191	178	190	FEB	187	182	182	185	MAR	183	184	186	186
	APR	195	211	214	221	MAY	224	224	227	229	JUN	233	233	235	236
	JUL	236	232	233	234	AUG	232	229	227	222	SEP	221	222	220	219
	OCT	216	215	212	207	NOV	211	211	212	207	DEC	211	209	211	212
1941	JAN	219	217	216	208	FEB	207	186	206	209	MAR	204	195	199	212
	APR	221	228	232	230	MAY	228	227	226	224	JUN	222	220	221	220
	JUL	218	216	219	214	AUG	214	212	209	208	SEP	208	206	203	202
	OCT	202	201	198	197	NOV	198	200	199	198	DEC	196	194	192	195

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1942	JAN	200	197	192	184	FEB	186	187	189	190	MAR	189	197	214	215
	APR	219	223	228	229	MAY	230	231	233	235	JUN	236	237	237	238
	JUL	239	236	235	233	AUG	234	232	234	228	SEP	225	226	225	229
	OCT	224	218	219	223	NOV	221	224	220	221	DEC	232	222	217	214
1943	JAN	210	226	198	206	FEB	217	221	219	222	MAR	207	208	234	252
	APR	256	257	254	260	MAY	265	270	276	285	JUN	290	292	293	292
	JUL	289	288	287	285	AUG	283	284	284	277	SEP	275	275	268	264
	OCT	260	256	258	252	NOV	257	259	255	255	DEC	252	252	252	245
1944	JAN	237	237	233	232	FEB	230	224	227	227	MAR	225	225	230	235
	APR	238	237	243	249	MAY	252	257	257	259	JUN	260	259	259	260
	JUL	260	259	260	260	AUG	254	255	253	248	SEP	249	243	243	238
	OCT	236	236	235	228	NOV	227	223	220	219	DEC	222	221	226	220
1945	JAN	207	187	184	200	FEB	207	207	212	204	MAR	218	229	235	246
	APR	256	254	256	258	MAY	261	264	269	274	JUN	272	273	274	273
	JUL	274	272	271	268	AUG	270	270	266	263	SEP	261	260	256	258
	OCT	269	268	268	266	NOV	265	265	264	256	DEC	263	268	265	263
1946	JAN	263	263	259	255	FEB	250	245	233	229	MAR	233	260	264	265
	APR	266	264	262	259	MAY	257	258	259	258	JUN	259	261	260	259
	JUL	258	255	254	255	AUG	252	253	250	247	SEP	245	241	239	240
	OCT	236	234	235	238	NOV	237	237	237	234	DEC	230	238	233	228
1947	JAN	227	225	226	231	FEB	233	235	228	231	MAR	231	229	231	240
	APR	246	259	258	265	MAY	264	268	271	281	JUN	286	296	299	297
	JUL	295	294	295	299	AUG	294	292	287	285	SEP	282	281	278	274
	OCT	272	266	265	256	NOV	255	257	253	254	DEC	251	252	250	246
1948	JAN	233	238	224	202	FEB	210	216	221	230	MAR	219	230	246	264
	APR	272	273	275	274	MAY	277	280	284	285	JUN	284	284	283	284
	JUL	281	277	274	278	AUG	273	270	268	266	SEP	260	259	253	248
	OCT	244	249	245	241	NOV	241	244	240	239	DEC	240	235	233	230

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1949	JAN	234	232	236	228	FEB	234	233	240	243	MAR	245	247	246	249
	APR	251	253	256	257	MAY	257	253	254	256	JUN	252	250	248	246
	JUL	242	240	240	240	AUG	237	232	226	224	SEP	227	222	223	221
	OCT	217	217	215	214	NOV	210	205	210	204	DEC	206	207	209	212
1950	JAN	211	221	225	222	FEB	223	223	225	227	MAR	227	230	228	239
	APR	254	260	262	261	MAY	263	264	261	261	JUN	265	262	261	262
	JUL	259	257	256	257	AUG	254	252	248	244	SEP	244	237	241	238
	OCT	237	237	235	233	NOV	232	238	236	230	DEC	235	240	242	243
1951	JAN	243	246	246	238	FEB	211	230	233	247	MAR	254	257	266	270
	APR	276	280	290	292	MAY	295	295	294	294	JUN	292	291	293	291
	JUL	293	293	292	289	AUG	284	279	276	273	SEP	268	271	270	268
	OCT	260	258	254	258	NOV	250	254	252	252	DEC	252	251	257	253
1952	JAN	255	255	262	258	FEB	263	264	264	268	MAR	268	274	276	284
	APR	287	292	300	297	MAY	299	302	303	306	JUN	308	308	304	299
	JUL	299	297	297	294	AUG	288	286	284	279	SEP	277	273	275	272
	OCT	269	264	266	259	NOV	256	250	245	254	DEC	247	256	253	260
1953	JAN	252	250	255	258	FEB	254	255	259	259	MAR	258	255	259	263
	APR	268	271	275	272	MAY	274	277	282	283	JUN	285	284	282	280
	JUL	280	277	273	274	AUG	266	267	266	266	SEP	262	261	258	256
	OCT	249	246	244	239	NOV	237	237	237	238	DEC	239	238	240	239
1954	JAN	232	229	225	225	FEB	229	227	230	242	MAR	256	250	253	258
	APR	262	264	272	271	MAY	280	284	283	283	JUN	283	278	278	278
	JUL	277	272	268	266	AUG	264	264	260	255	SEP	257	251	254	252
	OCT	252	252	255	253	NOV	254	256	252	254	DEC	257	254	257	256
1955	JAN	261	259	261	259	FEB	247	245	243	249	MAR	250	258	276	282
	APR	285	288	292	291	MAY	296	295	293	292	JUN	290	289	287	284
	JUL	281	275	277	269	AUG	267	262	267	264	SEP	262	257	253	252
	OCT	249	252	255	260	NOV	259	258	258	256	DEC	249	251	248	247

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1956	JAN	240	235	239	238	FEB	236	236	234	232	MAR	232	239	239	242
	APR	246	255	264	262	MAY	269	274	279	283	JUN	286	283	278	280
	JUL	274	276	272	274	AUG	268	269	263	261	SEP	263	262	259	254
	OCT	256	251	243	239	NOV	239	240	241	238	DEC	235	238	236	236
1957	JAN	236	230	229	227	FEB	229	228	230	228	MAR	232	234	238	234
	APR	237	245	242	242	MAY	242	244	244	251	JUN	248	247	245	249
	JUL	253	250	245	244	AUG	245	242	242	238	SEP	241	233	232	230
	OCT	223	224	226	224	NOV	219	222	218	213	DEC	212	215	216	216
1958	JAN	221	220	218	217	FEB	220	220	207	199	MAR	200	210	219	223
	APR	226	229	235	228	MAY	228	229	230	230	JUN	230	230	229	230
	JUL	229	228	227	225	AUG	224	222	223	223	SEP	222	222	217	216
	OCT	218	222	215	207	NOV	204	208	209	209	DEC	212	210	208	204
1959	JAN	188	167	174	182	FEB	190	189	189	190	MAR	193	196	205	217
	APR	230	239	256	263	MAY	262	263	263	263	JUN	263	264	263	263
	JUL	257	256	254	243	AUG	238	232	228	228	SEP	225	221	216	212
	OCT	208	208	208	211	NOV	211	211	210	209	DEC	210	211	215	218
1960	JAN	215	203	210	222	FEB	217	214	216	220	MAR	228	231	228	223
	APR	232	246	253	260	MAY	264	268	271	272	JUN	278	280	300	302
	JUL	272	272	278	277	AUG	272	264	257	254	SEP	246	234	229	226
	OCT	222	201	196	196	NOV	203	206	210	209	DEC	211	210	210	210
1961	JAN	210	211	210	212	FEB	213	213	213	213	MAR	209	208	208	209
	APR	210	212	218	236	MAY	243	234	249	271	JUN	280	282	280	273
	JUL	272	270	264	262	AUG	257	253	251	251	SEP	251	250	246	239
	OCT	236	235	232	222	NOV	219	218	214	213	DEC	214	215	215	214
1962	JAN	210	210	213	212	FEB	209	209	208	208	MAR	206	205	205	201
	APR	188	192	191	195	MAY	200	205	195	189	JUN	208	213	215	215
	JUL	215	214	214	214	AUG	215	216	218	217	SEP	218	217	215	214
	OCT	212	211	212	211	NOV	207	207	208	211	DEC	211	210	211	211

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1963	JAN	207	208	210	214	FEB	210	207	207	207	MAR	204	203	191	190
	APR	189	189	192	189	MAY	188	188	188	188	JUN	203	205	208	209
	JUL	210	213	216	217	AUG	216	216	217	217	SEP	213	212	212	212
	OCT	210	205	217	215	NOV	214	198	201	207	DEC	210	206	213	208
1964	JAN	211	210	211	211	FEB	207	207	207	205	MAR	191	194	195	192
	APR	184	182	176	175	MAY	175	184	188	189	JUN	193	196	197	197
	JUL	198	200	202	203	AUG	204	208	208	207	SEP	206	206	209	208
	OCT	206	206	206	203	NOV	206	202	195	195	DEC	195	197	192	188
1965	JAN	182	185	182	182	FEB	182	182	182	181	MAR	180	179	180	180
	APR	185	186	185	179	MAY	178	179	174	175	JUN	180	188	193	195
	JUL	197	201	203	203	AUG	204	206	208	208	SEP	203	204	205	199
	OCT	195	199	210	208	NOV	208	210	210	211	DEC	216	225	232	235
1966	JAN	226	218	218	225	FEB	224	220	221	225	MAR	228	237	235	235
	APR	236	237	233	230	MAY	223	213	208	204	JUN	206	211	216	217
	JUL	218	220	220	220	AUG	220	220	220	220	SEP	221	221	222	221
	OCT	217	216	216	216	NOV	217	215	208	207	DEC	208	211	222	225
1967	JAN	218	220	218	222	FEB	228	230	228	226	MAR	223	219	214	206
	APR	198	210	218	222	MAY	222	217	216	220	JUN	224	219	218	213
	JUL	218	229	232	226	AUG	230	233	236	233	SEP	239	235	226	229
	OCT	234	246	254	264	NOV	269	275	279	284	DEC	284	281	278	282
1968	JAN	239	247	241	236	FEB	254	250	250	242	MAR	234	237	234	242
	APR	259	261	264	265	MAY	264	249	236	236	JUN	234	236	237	242
	JUL	248	254	256	256	AUG	256	264	264	264	SEP	267	268	273	274
	OCT	269	263	260	256	NOV	255	252	252	257	DEC	262	276	240	231
1969	JAN	231	230	236	244	FEB	250	250	255	255	MAR	254	256	255	257
	APR	261	261	265	271	MAY	276	274	273	280	JUN	285	290	293	297
	JUL	299	298	298	294	AUG	297	297	293	292	SEP	286	281	275	267
	OCT	260	255	250	255	NOV	244	246	249	252	DEC	254	243	246	230

TABLE A-11 (CONTINUED)

LAKE ONTARIO QUARTER-MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1970	JAN	220	231	231	229	FEB	232	237	238	234	MAR	236	234	234	236
	APR	232	233	239	242	MAY	248	249	247	252	JUN	252	250	248	246
	JUL	250	255	256	264	AUG	265	268	265	263	SEP	259	258	257	259
	OCT	262	262	264	262	NOV	262	263	264	269	DEC	274	278	258	229
1971	JAN	231	233	239	239	FEB	244	246	250	250	MAR	254	262	266	269
	APR	278	263	267	277	MAY	284	284	287	285	JUN	282	278	266	264
	JUL	257	268	262	259	AUG	261	260	258	256	SEP	261	264	264	265
	OCT	262	260	256	256	NOV	257	253	244	235	DEC	232	231	238	237
1972	JAN	218	220	220	231	FEB	230	217	239	236	MAR	240	248	258	270
	APR	279	258	272	280	MAY	286	290	293	294	JUN	295	294	300	310
	JUL	310	310	310	310	AUG	310	310	310	310	SEP	310	310	310	310
	OCT	310	307	298	294	NOV	293	294	292	294	DEC	295	296	248	244
1973	JAN	258	235	256	257	FEB	247	287	290	291	MAR	299	290	296	311
	APR	317	322	330	331	MAY	332	334	337	344	JUN	349	350	350	350
	JUL	350	350	350	350	AUG	341	324	318	311	SEP	317	317	319	314
	OCT	310	310	308	297	NOV	300	296	290	288	DEC	288	287	262	230
1974	JAN	236	221	247	254	FEB	237	263	273	289	MAR	299	293	304	310
	APR	309	309	310	310	MAY	310	310	306	306	JUN	320	330	330	330
	JUL	331	335	339	340	AUG	340	336	326	320	SEP	319	315	331	310
	OCT	310	307	302	295	NOV	281	277	273	276	DEC	277	276	283	290
1975	JAN	286	276	236	230	FEB	230	244	260	264	MAR	281	290	290	294
	APR	300	306	306	293	MAY	297	308	310	309	JUN	308	308	309	305
	JUL	296	291	287	287	AUG	286	285	282	279	SEP	282	282	281	281
	OCT	286	287	290	293	NOV	290	289	287	283	DEC	283	281	255	235
1976	JAN	270	235	237	244	FEB	252	257	264	269	MAR	271	288	295	304
	APR	280	304	320	320	MAY	326	335	327	326	JUN	344	350	350	350
	JUL	350	350	350	349	AUG	338	328	321	318	SEP	314	310	307	306
	OCT	306	301	300	299	NOV	299	300	298	290	DEC	262	238	240	217

TABLE A-12

LAKE ONTARIO MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	208	209	215	239	245	246	244	237	230	221	216	222
1901	214	209	206	234	244	248	242	235	229	223	211	215
1902	210	189	222	238	240	243	248	250	243	235	230	224
1903	220	220	240	258	260	258	260	255	250	239	227	220
1904	203	206	220	256	270	277	278	273	264	255	243	221
1905	209	218	212	238	242	249	259	257	254	247	241	235
1906	242	234	232	241	244	246	250	243	234	231	229	227
1907	223	230	235	255	261	262	263	258	249	247	245	244
1908	232	231	248	278	292	294	288	279	262	247	238	227
1909	215	208	224	241	261	266	264	256	244	236	225	222
1910	209	200	228	237	248	249	246	241	231	226	220	214
1911	204	200	206	224	232	232	231	223	215	211	212	212
1912	202	191	198	236	255	268	259	252	247	243	241	243
1913	247	243	249	273	280	280	275	265	252	244	242	238
1914	226	215	218	253	257	257	252	245	241	229	226	215
1915	213	203	222	222	221	220	221	227	229	224	219	212
1916	218	216	214	245	262	275	277	266	252	239	230	223
1917	215	224	221	242	245	257	268	266	257	253	251	246
1918	230	223	241	258	260	259	257	248	243	237	239	234
1919	239	235	238	251	267	277	275	266	255	245	240	233
1920	212	204	208	229	229	229	232	229	226	223	219	226
1921	227	221	235	245	251	250	245	236	226	219	210	215
1922	208	198	213	240	248	252	257	248	237	229	219	208
1923	200	196	196	221	229	236	231	225	216	208	204	207
1924	210	202	208	224	240	243	242	238	230	226	218	208
1925	183	188	215	227	230	226	222	216	208	204	206	210
1926	195	180	187	214	225	224	222	217	214	218	227	227
1927	211	200	221	236	237	242	239	234	224	217	216	233
1928	236	231	231	247	249	250	254	251	242	234	231	235
1929	231	229	239	262	286	287	285	279	267	255	252	238
1930	249	252	269	278	279	281	279	266	255	242	231	222
1931	214	205	205	216	219	224	221	213	207	201	197	194
1932	204	216	219	233	240	237	235	229	216	208	204	203
1933	204	198	197	212	222	224	217	208	202	193	184	179

TABLE A-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	169	173	183	203	206	202	195	187	180	175	170	170
1935	166	168	177	187	194	199	202	197	188	183	176	175
1936	169	154	180	218	223	218	211	200	195	193	193	186
1937	198	207	210	217	233	236	237	231	223	214	214	210
1938	196	201	208	233	235	233	229	229	220	215	211	206
1939	197	183	196	230	239	237	235	230	218	212	202	198
1940	188	184	185	210	226	234	234	228	221	213	210	211
1941	215	202	202	228	226	221	216	210	205	199	199	194
1942	193	188	204	225	232	237	236	232	226	221	221	222
1943	209	220	226	257	274	292	287	282	271	256	256	250
1944	235	227	229	242	256	259	260	252	243	234	222	222
1945	195	207	232	256	267	273	271	267	259	268	263	265
1946	260	239	256	263	258	260	256	250	241	236	237	232
1947	227	232	233	257	271	294	296	289	279	265	255	250
1948	224	220	240	274	282	284	278	269	255	244	241	234
1949	233	237	247	254	255	249	241	230	223	216	208	208
1950	220	225	231	259	262	263	257	249	240	235	234	240
1951	243	230	262	284	294	292	292	278	269	257	252	253
1952	258	265	276	294	302	305	297	284	274	264	251	254
1953	254	257	259	272	279	283	276	266	259	245	237	239
1954	228	232	254	267	282	279	271	261	254	253	254	256
1955	260	246	267	289	294	287	276	265	256	254	258	249
1956	238	234	238	257	276	282	274	265	260	247	240	236
1957	230	229	234	241	245	247	248	242	234	224	218	214
1958	219	212	213	230	229	230	227	223	219	215	207	209
1959	178	190	203	247	263	263	252	231	219	209	210	214
1960	213	217	227	247	269	290	275	262	234	204	207	210
1961	211	213	209	219	250	279	267	253	247	231	216	214
1962	211	209	204	191	197	213	214	217	216	211	208	211
1963	210	208	197	190	188	206	214	217	212	212	205	210
1964	211	206	193	179	184	196	201	207	207	205	200	193
1965	183	182	180	184	176	189	201	206	203	203	210	227
1966	222	222	234	234	212	212	219	220	221	216	212	217
1967	219	228	215	212	219	218	226	233	232	249	277	281

TABLE A-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	241	249	237	262	246	237	253	262	270	262	254	251
1969	235	253	255	264	276	291	297	295	277	255	248	243
1970	228	235	235	236	249	249	256	265	258	263	265	259
1971	236	248	263	271	285	273	261	259	263	259	247	235
1972	222	231	254	273	291	300	310	310	310	302	293	270
1973	252	279	299	325	337	350	350	323	317	306	294	266
1974	240	265	302	310	308	327	336	330	314	303	277	282
1975	256	250	289	301	306	308	290	283	281	289	287	263
1976	247	261	290	306	328	348	350	326	309	302	297	239

TABLE A-13

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	235	237	234	320	334	307	298	280	257	252	261	253
1901	238	220	225	340	351	321	272	254	249	244	234	244
1902	234	202	286	328	333	324	302	279	259	254	264	262
1903	246	246	311	341	330	310	304	283	262	264	243	227
1904	216	219	249	352	405	395	326	300	288	298	276	242
1905	226	227	227	304	316	306	292	278	273	267	265	255
1906	269	257	250	292	324	323	283	257	242	240	241	241
1907	247	239	251	310	349	336	307	278	265	275	282	278
1908	259	252	276	350	447	388	327	296	272	254	247	236
1909	230	224	240	332	419	370	304	289	269	258	246	245
1910	232	217	264	317	320	303	267	256	250	248	246	233
1911	220	211	214	284	332	294	257	236	225	221	225	238
1912	228	203	209	313	354	366	297	274	268	265	302	288
1913	297	278	304	363	366	324	294	274	263	259	279	274
1914	246	231	234	304	318	286	273	253	246	235	235	228
1915	227	218	238	260	277	255	246	243	242	239	231	227
1916	245	245	236	351	402	367	316	284	264	258	260	254
1917	236	240	242	328	339	344	324	302	278	272	279	264
1918	242	235	261	336	337	312	300	268	264	283	305	279
1919	273	254	278	339	400	361	301	279	272	276	289	272
1920	233	221	242	306	302	267	262	251	242	236	239	256
1921	249	233	293	332	328	282	262	250	236	234	230	237
1922	226	212	247	357	352	303	288	266	251	241	232	219
1923	211	204	208	274	352	305	262	243	236	221	222	236
1924	238	221	232	301	360	313	275	258	249	255	241	236
1925	197	215	264	314	307	286	260	242	228	226	240	244
1926	218	195	203	272	322	297	266	241	232	236	272	268
1927	241	231	279	286	292	296	280	265	242	238	272	286
1928	281	265	268	364	395	333	300	283	271	293	302	280
1929	272	258	295	366	418	350	324	299	283	274	280	257
1930	281	274	293	336	339	335	331	292	273	260	248	238
1931	227	217	222	260	262	254	238	227	219	213	214	220
1932	238	247	243	318	295	268	260	251	252	260	276	242
1933	240	224	221	326	318	268	239	229	218	208	198	194

TABLE A-13 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	186	181	202	302	305	251	223	199	192	192	186	198
1935	199	191	218	244	247	233	234	217	204	198	198	196
1936	191	170	245	294	340	283	236	216	212	222	234	216
1937	247	247	246	293	322	278	258	252	239	235	261	246
1938	224	232	274	338	319	274	248	247	240	238	231	229
1939	219	207	223	302	336	291	268	258	236	231	227	221
1940	207	200	202	275	293	304	276	248	241	230	232	238
1941	247	228	225	303	277	245	236	228	223	230	245	232
1942	225	219	253	308	295	283	256	248	241	237	243	244
1943	234	248	271	326	405	362	321	301	291	277	285	274
1944	256	243	258	284	310	282	275	265	258	251	241	242
1945	219	227	293	330	337	326	295	282	277	299	295	288
1946	291	267	314	314	300	298	272	264	256	258	269	271
1947	269	277	273	367	424	434	351	313	296	281	273	271
1948	245	242	289	334	329	311	293	283	266	255	256	254
1949	265	268	289	342	315	279	267	244	239	233	226	236
1950	257	251	263	327	317	301	285	271	264	258	267	272
1951	281	265	318	419	363	317	321	294	287	284	309	293
1952	294	301	315	376	373	351	320	308	292	288	273	284
1953	284	291	315	352	330	304	291	279	270	259	252	256
1954	248	261	302	356	338	320	296	279	278	304	305	296
1955	306	286	318	412	343	314	294	281	272	274	296	280
1956	266	258	266	332	346	330	303	291	296	287	268	266
1957	263	263	279	283	286	278	302	264	261	256	264	267
1958	260	253	265	312	273	266	262	250	248	252	249	241
1959	208	219	234	328	316	296	278	255	244	239	259	264
1960	254	264	268	377	394	334	329	298	260	228	234	238
1961	236	240	236	280	304	322	306	284	278	263	244	246
1962	244	246	243	277	264	244	236	239	235	235	237	233
1963	230	228	222	271	235	233	232	234	235	232	234	240
1964	240	233	236	236	225	228	222	223	222	222	217	215
1965	206	212	208	228	231	213	218	230	236	267	266	276
1966	266	264	299	303	270	258	243	247	244	240	248	284
1967	262	277	250	311	300	280	268	257	257	291	349	333

TABLE A-13 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (1000 CFS)
RECORDED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	286	292	295	341	287	269	288	288	295	286	285	284
1969	271	287	290	356	357	341	330	326	303	282	293	284
1970	267	271	273	316	328	303	304	303	286	294	302	297
1971	276	289	309	378	379	310	286	282	288	281	270	266
1972	251	262	288	367	406	360	368	357	346	344	355	322
1973	311	335	396	416	412	400	383	351	341	337	329	313
1974	288	309	361	406	448	415	376	350	333	327	321	329
1975	304	293	342	385	378	356	319	304	306	319	327	316
1976	307	320	372	453	429	393	382	353	335	337	329	286

TABLE A-14

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
LONG LAKE/OGOKI

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1901	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1902	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1903	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1904	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1905	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1906	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1907	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1908	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1909	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1910	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1911	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1912	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1913	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1914	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1915	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1916	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1917	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1918	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1919	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1920	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1921	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1922	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1923	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1924	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1925	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1926	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1927	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1928	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1929	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1930	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1931	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1932	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1933	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TABLE A-14 (CONTINUED)

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
LONG LAKE/OGOKI

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1935	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1936	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1937	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1938	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1939	0.	0.	0.	0.	0.	0.	.10	.40	.40	.20	0.	0.
1940	0.	0.	0.	0.	.60	.80	1.10	1.30	.90	0.	0.	0.
1941	.20	.70	.60	.70	1.50	1.60	1.40	1.20	1.30	1.20	1.70	1.60
1942	1.20	.90	.70	.70	1.80	2.30	1.90	1.60	1.30	.60	2.10	1.90
1943	1.50	1.10	.90	.70	1.60	2.30	3.20	4.20	5.10	5.50	5.30	4.50
1944	4.00	3.40	2.70	2.40	4.70	8.00	7.40	3.00	2.30	3.80	2.80	2.60
1945	2.90	2.10	1.90	2.60	3.60	7.10	8.70	6.40	3.80	3.70	4.00	3.70
1946	3.30	2.90	2.80	3.80	10.10	12.50	10.60	5.70	3.80	4.70	7.40	7.30
1947	5.10	4.00	3.00	2.40	7.60	8.,0	9.80	5.20	5.00	4.00	3.40	3.70
1948	3.60	2.80	2.20	2.60	8.20	9 30	9.10	7.60	4.60	3.30	3.30	4.70
1949	3.70	3.40	3.50	4.90	10.30	10.40	5.40	4.70	3.60	3.60	4.60	4.90
1950	5.00	4.40	3.90	3.50	8.90	2.30	2.30	2.10	7.00	3.60	6.80	6.70
1951	4.80	3.70	3.10	2.60	4.60	3.00	3.60	4.70	4.00	7.60	7.50	9.40
1952	6.30	4.90	3.80	1.90	1.00	2.10	2.00	1.50	1.30	1.20	.90	3.40
1953	6.10	3.90	3.20	3.20	5.40	9.30	9.30	1.20	1.40	3.20	7.90	5.20
1954	7.50	5.60	4.40	3.90	7.50	2.60	1.30	6.00	5.90	5.90	6.40	7.60
1955	5.10	4.50	4.00	4.10	9.70	10.90	9.80	5.60	4.30	3.80	4.40	4.70
1956	4.30	3.90	3.50	3.30	4.80	14.60	11.30	6.90	4.80	4.40	4.40	4.60
1957	3.80	3.10	2.90	3.20	9.40	10.90	2.60	6.60	4.40	4.20	5.50	4.50
1958	3.90	3.80	3.50	3.80	8.90	11.40	8.20	5.90	5.40	7.20	8.70	6.90
1959	5.60	5.00	3.80	3.60	5.10	12.20	12.80	9.10	6.70	6.10	5.20	4.80
1960	4.10	4.00	3.30	3.20	5.90	9.90	7.70	4.90	3.50	2.70	3.50	3.90
1961	3.80	3.70	3.40	3.50	9.40	13.20	7.80	4.90	3.50	4.00	4.70	4.10
1962	4.00	4.00	3.40	3.20	4.80	10.20	8.60	7.80	8.00	5.90	4.60	4.00
1963	3.90	3.60	3.10	3.20	4.30	8.30	7.00	9.90	9.10	5.90	4.20	3.70
1964	3.60	3.40	3.10	3.40	11.20	12.80	7.30	12.10	10.60	12.70	9.40	6.60
1965	5.40	4.60	4.80	4.80	6.60	8.40	7.40	6.20	4.80	7.00	7.60	7.30
1966	6.60	5.60	4.70	4.60	8.40	17.70	5.00	10.20	6.50	4.70	4.00	3.50
1967	3.70	3.30	2.90	3.40	6.40	13.50	9.60	6.20	3.90	3.00	3.50	3.60

TABLE A-14 (CONTINUED)

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
LONG LAKE/OGOKI

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	3.70	3.30	3.00	3.90	9.90	15.80	9.80	3.90	3.40	2.90	12.60	8.90
1969	6.50	5.60	4.60	4.40	10.40	16.30	5.30	1.40	12.30	8.80	6.60	5.40
1970	4.80	4.50	3.80	3.30	6.30	11.30	9.40	8.80	8.80	12.30	3.00	6.20
1971	7.20	5.90	4.90	4.80	9.70	11.60	8.30	5.70	3.40	4.80	11.20	10.40
1972	7.40	5.70	4.30	3.60	7.40	8.40	5.80	4.80	4.60	5.20	5.80	5.50
1973	4.50	3.60	3.20	3.00	6.40	8.10	8.50	8.30	7.40	6.20	5.50	5.60
1974	4.60	4.10	3.40	3.10	4.60	1.20	1.60	4.40	8.40	8.90	8.80	6.80
1975	5.50	4.60	3.80	3.30	5.90	10.10	9.40	6.00	4.70	3.50	4.20	4.20
1976	4.00	3.50	3.00	3.00	6.70	7.40	6.10	4.60	3.20	2.50	2.00	1.60

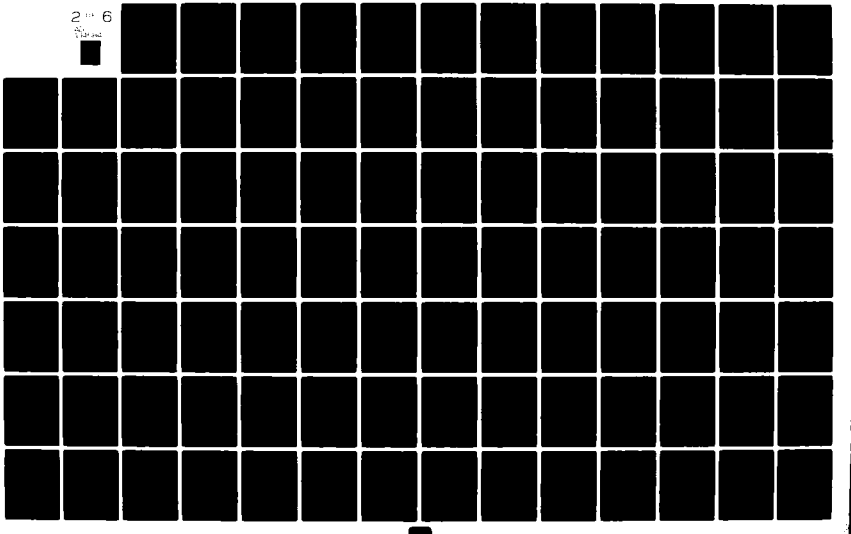
TABLE A-15

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
CHICAGO SANITARY AND SHIP CANAL (INCLUDING ILLINOIS AND MICHIGAN CANAL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	2.00	2.90	2.70	3.30	3.80	3.80	4.00	4.20	2.90	4.00	4.40	4.90
1901	5.50	5.70	5.90	5.00	3.70	3.50	3.70	4.50	4.50	4.40	4.50	4.70
1902	4.80	4.80	4.80	4.80	4.80	4.70	4.90	4.80	4.90	4.80	4.80	6.00
1903	6.70	6.30	5.90	5.20	5.20	5.40	5.50	5.10	4.90	5.10	5.30	6.10
1904	6.20	5.90	6.20	6.00	5.80	4.80	5.30	5.30	4.90	4.70	5.20	5.80
1905	5.90	6.20	6.20	5.40	4.80	4.90	4.80	5.00	5.00	5.20	4.10	4.60
1906	5.20	5.30	5.10	5.30	5.40	5.10	4.70	4.10	4.40	5.90	5.90	5.60
1907	6.00	6.20	5.70	5.70	5.70	6.20	6.30	6.90	5.40	4.90	5.10	5.70
1908	4.80	5.20	7.50	8.40	8.20	8.20	7.60	7.40	7.20	7.20	7.10	7.10
1909	6.90	6.80	6.80	7.40	7.50	7.60	7.80	7.70	7.30	6.90	6.80	6.90
1910	7.50	7.20	7.80	7.70	7.70	7.90	7.60	7.40	7.30	7.80	7.50	7.20
1911	6.10	6.10	5.90	6.10	6.20	7.20	7.60	7.40	7.60	7.90	7.60	7.00
1912	6.20	6.00	6.10	6.80	6.30	6.90	7.50	7.80	7.80	7.60	7.40	6.80
1913	6.80	6.60	6.50	6.80	7.90	8.40	8.60	9.20	9.20	8.70	8.00	7.60
1914	7.30	7.30	6.90	7.20	8.00	8.20	7.90	8.30	9.10	8.40	7.60	7.70
1915	7.50	7.70	7.30	6.80	7.60	7.90	7.80	8.50	8.10	7.70	8.00	8.10
1916	7.90	7.60	7.60	7.50	7.80	8.50	9.60	9.10	8.20	8.00	8.40	8.30
1917	8.10	7.80	7.70	7.90	8.10	9.20	10.00	9.90	9.70	9.10	8.80	8.40
1918	7.70	8.50	8.40	8.60	9.00	9.50	9.90	9.30	8.70	8.70	8.70	8.90
1919	8.50	8.00	8.60	8.80	9.80	9.00	8.60	8.50	8.20	8.60	8.70	7.90
1920	8.20	8.10	8.50	8.20	7.80	8.00	8.20	8.50	9.10	8.80	8.50	8.30
1921	7.80	7.80	7.80	8.10	7.80	8.10	8.90	8.60	8.60	8.90	9.10	8.80
1922	8.10	8.00	8.60	8.00	8.70	8.90	8.70	8.60	8.80	8.60	8.50	7.90
1923	7.80	7.50	7.70	7.70	8.00	8.10	8.10	8.40	8.40	8.30	8.20	8.10
1924	7.40	8.10	9.40	9.70	9.50	10.30	9.70	10.00	9.40	9.10	8.40	7.90
1925	7.50	7.70	8.10	8.30	8.30	8.40	8.50	8.20	8.30	8.00	7.20	7.30
1926	7.20	7.70	8.00	8.80	8.60	9.20	8.90	9.00	7.80	6.70	8.80	8.70
1927	8.50	7.90	9.10	7.90	6.80	6.60	7.80	9.10	10.00	9.80	10.20	7.70
1928	8.50	9.80	10.00	10.20	10.10	10.30	10.20	10.30	10.10	10.00	10.40	10.30
1929	10.10	10.20	8.30	6.80	5.80	10.00	9.10	9.50	11.00	11.40	11.10	10.10
1930	7.70	7.90	8.90	9.70	8.20	8.50	8.20	10.40	8.90	7.40	7.20	7.20
1931	8.10	7.70	7.60	7.60	8.00	8.40	7.90	9.00	8.80	8.80	8.50	7.90
1932	8.00	7.40	7.20	7.80	8.20	8.10	7.70	8.60	8.90	8.80	8.30	8.10
1933	7.10	6.80	7.70	8.20	7.80	8.50	8.90	8.80	8.50	7.70	8.10	8.00

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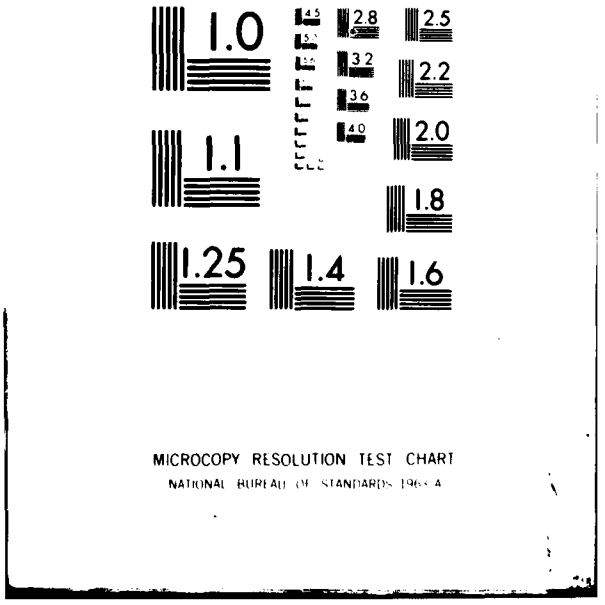

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TABLE A-15 (CONTINUED)

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
CHICAGO SANITARY AND SHIP CANAL (INCLUDING ILLINOIS AND MICHIGAN CANAL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	7.30	7.10	7.00	8.00	8.40	8.80	8.70	8.70	8.70	8.20	8.30	8.40
1935	8.30	8.30	8.20	8.40	8.30	8.20	8.00	7.70	7.20	7.80	8.80	7.70
1936	6.30	6.60	6.60	6.80	7.60	6.40	7.00	7.10	7.20	5.90	6.50	4.90
1937	6.30	5.60	5.40	6.30	5.80	6.70	7.30	7.70	6.90	7.20	7.40	7.30
1938	6.40	7.40	7.60	7.70	6.30	6.70	6.50	6.70	7.20	5.50	5.90	5.50
1939	2.90	3.90	3.20	2.70	2.60	4.20	2.90	2.90	2.80	3.00	2.80	3.50
1940	2.90	2.80	3.10	3.00	3.20	2.80	3.60	3.90	3.10	3.20	2.80	4.90
1941	2.60	2.50	2.80	2.70	3.60	4.00	3.70	3.60	3.40	2.80	2.30	3.30
1942	2.70	3.40	2.90	2.90	3.10	3.10	3.30	3.50	3.70	2.80	2.80	2.90
1943	2.50	2.60	2.70	2.70	4.50	3.70	4.10	3.60	3.30	3.00	2.30	2.30
1944	3.20	2.60	3.20	3.10	3.00	3.30	3.30	3.30	3.10	3.10	3.30	3.00
1945	2.90	2.90	2.70	3.40	3.90	3.70	3.30	3.30	3.20	2.80	2.50	2.30
1946	2.80	2.90	3.00	2.60	4.10	3.60	3.80	3.50	3.20	2.70	2.70	2.30
1947	2.90	2.80	2.90	4.00	3.10	3.50	2.90	4.00	3.00	2.60	2.40	3.40
1948	2.60	2.50	3.10	2.40	2.90	3.50	3.90	4.40	4.00	3.10	2.50	2.80
1949	2.50	2.40	2.40	2.50	3.40	4.10	4.20	4.10	3.70	3.00	2.40	2.80
1950	2.50	2.60	2.60	3.00	2.60	3.90	4.10	4.00	3.80	3.00	2.40	3.10
1951	2.70	2.70	2.70	3.00	3.20	3.80	3.80	3.90	3.90	3.20	2.40	2.10
1952	2.40	2.20	2.70	2.70	3.10	3.90	4.10	4.00	3.40	2.70	2.90	3.40
1953	2.50	2.40	2.80	2.70	3.10	3.50	3.60	4.20	4.40	2.80	3.00	3.20
1954	2.90	2.60	2.90	3.30	3.20	3.30	4.00	4.00	3.20	4.20	2.10	2.80
1955	2.70	2.80	2.60	3.50	3.70	3.70	3.70	3.80	3.20	2.80	2.80	3.50
1956	2.80	2.80	2.70	3.60	3.40	3.60	3.80	4.10	3.30	3.20	2.90	3.80
1957	9.10	8.00	2.90	3.40	3.40	3.40	4.00	3.40	3.00	3.10	3.00	3.40
1958	2.90	3.30	2.80	3.20	3.40	3.50	3.60	3.50	3.10	3.00	3.30	3.40
1959	4.60	2.60	2.80	2.80	2.70	3.40	3.70	4.20	3.20	3.10	2.90	3.50
1960	3.60	2.90	3.10	3.70	3.50	3.30	3.20	3.20	3.40	2.90	3.00	3.60
1961	2.90	2.90	3.00	3.50	3.50	3.70	3.70	3.70	4.60	2.30	2.00	3.00
1962	2.90	2.40	2.50	2.90	3.50	3.70	3.80	4.10	3.70	3.10	3.10	3.50
1963	2.40	2.70	2.80	3.90	3.90	3.80	3.80	3.60	3.20	2.70	3.10	3.40
1964	2.50	2.50	2.70	3.20	3.50	3.90	4.10	3.70	3.70	2.70	3.50	3.10
1965	2.80	2.80	3.00	3.40	3.00	3.20	3.40	4.20	3.60	2.80	2.80	3.40
1966	2.30	2.60	2.90	3.40	4.10	2.60	3.40	4.00	3.50	2.70	3.30	3.60
1967	2.30	2.40	2.80	3.60	2.60	3.90	3.20	3.70	3.90	4.00	3.00	3.40

TABLE A-15 (CONTINUED)

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
CHICAGO SANITARY AND SHIP CANAL (INCLUDING ILLINOIS AND MICHIGAN CANAL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	2.20	2.50	1.80	2.80	3.30	3.70	3.70	4.30	3.40	3.30	3.90	4.50
1969	2.90	2.00	2.20	3.60	3.60	4.40	4.90	4.30	4.10	3.10	2.00	3.30
1970	2.90	3.20	2.20	4.30	4.50	4.30	3.70	3.30	3.60	3.10	2.70	2.20
1971	2.00	2.70	2.50	2.10	2.90	3.30	4.80	6.10	4.10	3.60	3.00	3.00
1972	2.10	2.00	3.10	3.50	3.20	3.60	4.50	5.60	5.70	2.90	3.30	3.00
1973	2.80	2.10	4.70	4.70	4.10	3.70	3.30	2.60	2.60	2.50	2.00	2.80
1974	3.00	2.90	2.80	3.50	5.50	4.30	2.90	2.40	2.10	1.90	2.30	3.20
1975	3.60	4.10	2.50	5.60	3.30	3.50	2.50	4.10	1.90	2.00	2.00	2.40
1976	2.70	4.80	4.30	3.60	3.50	3.40	2.70	2.20	2.10	2.00	2.10	3.00

TABLE A-16

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
WELLAND CANAL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1901	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1902	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
1903	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
1904	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
1905	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
1906	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1907	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
1908	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1909	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
1910	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
1911	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
1912	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
1913	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
1914	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
1915	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
1916	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
1917	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
1918	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
1919	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
1920	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
1921	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
1922	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
1923	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80
1924	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
1925	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
1926	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
1927	2.50	2.50	2.60	2.70	2.80	2.70	2.70	2.80	2.80	2.70	2.80	2.60
1928	2.40	2.40	2.40	2.50	2.60	2.60	2.60	2.70	2.60	2.80	2.80	2.70
1929	2.60	2.60	2.60	2.70	2.70	2.70	2.80	2.70	2.60	2.70	2.70	2.40
1930	2.40	2.30	2.30	2.50	2.80	2.80	2.70	2.80	2.80	2.80	2.60	2.20
1931	2.00	2.10	2.10	2.30	2.60	2.50	2.40	2.40	2.40	2.40	2.60	2.10
1932	1.90	1.90	1.80	2.20	2.70	2.70	2.70	2.70	2.70	2.80	2.70	2.10
1933	1.90	1.90	1.80	2.10	2.70	2.70	2.80	2.80	2.90	2.90	2.90	2.30

TABLE A-16 (CONTINUED)

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
WELLAND CANAL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	2.10	2.20	2.10	2.20	2.80	2.70	2.80	2.80	2.70	2.80	2.90	2.20
1935	2.00	2.10	2.10	2.60	2.90	2.70	2.60	3.00	3.20	2.60	3.50	2.70
1936	1.90	2.20	2.00	2.30	3.00	2.80	2.80	2.60	2.80	3.10	3.10	2.60
1937	1.50	1.50	2.30	2.50	2.90	2.90	2.90	3.00	3.00	3.10	2.90	2.40
1938	2.20	2.00	1.90	2.60	2.90	2.80	2.80	2.90	3.00	3.10	3.10	2.40
1939	2.10	2.10	2.20	2.40	2.80	3.00	2.80	2.90	3.00	3.10	3.20	2.30
1940	2.30	2.40	2.20	2.50	3.30	3.40	3.20	3.50	3.40	3.90	3.60	2.80
1941	2.50	2.60	2.40	3.10	3.40	3.50	3.30	3.30	3.50	3.50	4.00	3.30
1942	2.90	2.90	2.50	3.30	3.20	3.50	3.60	3.60	3.40	3.40	3.30	2.90
1943	2.80	2.70	2.80	2.90	3.20	3.30	3.40	3.30	3.60	4.90	5.30	4.90
1944	4.60	4.90	4.90	5.10	4.50	5.50	5.00	5.70	5.60	5.60	5.60	4.00
1945	5.20	5.10	4.70	5.10	5.50	5.50	5.60	5.50	5.60	5.10	5.40	4.00
1946	2.40	4.60	4.40	4.20	5.10	5.10	5.10	5.30	5.20	5.60	5.80	5.30
1947	5.30	5.10	5.00	5.30	5.50	5.60	4.90	5.20	5.50	5.70	5.80	6.00
1948	6.30	6.40	6.20	5.80	5.30	5.40	5.40	5.40	5.30	5.80	5.80	6.20
1949	7.00	6.80	6.80	5.20	5.50	5.50	5.40	5.60	5.80	5.80	5.70	6.10
1950	7.00	7.30	6.90	5.60	5.60	5.60	5.50	5.60	5.70	7.20	8.00	7.50
1951	6.80	6.00	6.20	8.00	8.10	8.10	8.00	8.20	8.30	8.40	8.30	7.50
1952	6.90	7.00	7.30	8.20	8.30	8.30	7.60	8.10	8.60	8.50	8.60	7.90
1953	7.70	7.60	7.40	8.80	8.60	8.50	8.60	8.40	8.40	8.30	8.10	7.70
1954	7.40	7.20	7.50	5.80	6.30	6.20	6.50	8.20	8.30	8.10	7.90	7.70
1955	7.50	7.60	7.50	8.00	7.90	6.70	6.40	6.90	7.80	8.50	8.30	7.80
1956	7.40	7.30	7.00	7.90	7.90	8.50	7.80	8.20	8.40	8.40	8.50	7.80
1957	7.20	7.50	7.60	8.00	8.40	8.40	7.60	8.30	8.50	8.60	8.20	7.30
1958	7.30	7.10	7.10	5.70	7.70	8.00	7.50	7.30	6.40	6.20	5.90	6.20
1959	5.50	6.20	5.90	6.60	7.00	7.10	6.20	7.40	7.10	7.40	7.50	7.00
1960	6.40	6.30	6.20	6.80	6.80	6.60	5.90	7.40	8.30	8.00	8.60	7.40
1961	7.30	7.40	7.50	8.10	6.90	6.80	7.40	8.20	8.00	8.40	7.20	7.60
1962	7.30	7.10	7.40	7.90	8.60	8.50	8.30	8.50	7.60	7.80	6.60	7.30
1963	7.30	7.30	7.40	7.60	7.90	7.80	7.20	7.30	6.40	5.70	6.00	6.00
1964	5.50	5.70	6.20	6.50	7.40	6.90	6.80	6.10	5.60	4.70	4.10	5.30
1965	6.50	6.70	6.90	6.90	7.80	8.20	8.00	8.00	7.90	7.30	6.90	7.00
1966	6.80	7.00	6.90	8.10	8.60	8.50	7.80	8.50	8.10	6.80	7.30	7.50
1967	7.00	7.10	7.10	8.10	7.50	8.60	8.40	8.20	8.10	8.10	8.20	7.60

TABLE A-16 (CONTINUED)

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
WELLAND CANAL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	6.90	6.80	7.00	8.20	8.70	8.10	8.00	8.80	8.80	9.00	8.70	8.00
1969	7.20	7.40	7.50	8.20	7.60	7.30	7.60	8.30	8.30	8.40	8.40	7.80
1970	7.20	7.20	7.20	8.00	8.70	8.40	7.90	7.20	8.00	8.70	8.70	8.40
1971	7.10	6.80	5.80	7.30	8.20	6.90	8.30	8.20	8.20	8.30	8.30	7.90
1972	7.10	7.00	6.70	7.90	8.60	8.70	8.50	8.70	8.10	8.40	8.40	5.70
1973	.30	.90	7.40	9.00	9.50	9.60	9.60	9.80	9.60	9.60	9.10	8.70
1974	7.40	7.40	7.80	8.60	9.00	9.20	9.10	8.70	7.70	9.20	9.20	8.80
1975	8.30	8.10	8.00	8.90	7.90	7.60	7.10	7.60	8.90	9.20	9.30	9.00
1976	8.40	8.40	8.70	9.30	9.20	9.20	9.40	9.50	9.50	9.70	9.80	9.50

TABLE A-17

DIVERSIONS .. GREAT LAKES SYSTEM (1000 CFS)
NEW YORK STATE BARGE CANAL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1901	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1902	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1903	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1904	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1905	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1906	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1907	.70	.70	.70	.40	.70	.70	.70	.70	.70	.70	.70	.70
1908	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70	.50	0.00
1909	0.00	0.00	0.00	0.00	.60	.80	.80	.80	.80	.80	.60	0.00
1910	0.00	0.00	0.00	0.00	.60	.80	.80	.80	.80	.80	.60	0.00
1911	0.00	0.00	0.00	0.00	.60	.90	.90	.90	.90	.90	.60	0.00
1912	0.00	0.00	0.00	0.00	.60	.90	.90	.90	.90	.90	.60	0.00
1913	0.00	0.00	0.00	0.00	0.00	.90	.90	.90	.90	.90	.90	.30
1914	0.00	0.00	0.00	0.00	.40	1.00	1.00	1.00	1.00	1.00	1.00	.50
1915	.30	.30	.30	.20	.70	1.00	1.00	1.00	1.00	1.00	1.00	.50
1916	.30	.30	.30	.20	.90	1.10	1.10	1.10	1.10	1.10	1.10	.50
1917	.30	.30	.30	.20	.90	1.10	1.10	1.10	1.10	1.10	1.10	.60

NOTE - THE EFFECT OF THE NEW YORK STATE BARGE CANAL ON LAKE ERIE OUTFLOWS IS CONSIDERED ZERO AFTER 1917 BECAUSE THE INTAKE FOR THE CANAL WAS MOVED DOWNSTREAM OF THE BUFFALO GAUGE AT THAT TIME.

ANNEX B

DERIVED DATA

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ANNEX B

DERIVED DATA

Table		Page
B-1	Lake Superior Monthly Mean Net Basin Supply	A-103
B-2	Lakes Michigan-Huron Monthly Mean Net Basin Supply	A-106
B-3	Lake St. Clair Monthly Mean Net Basin Supply	A-109
B-4	Lake Erie Quarter-Monthly Mean Net Basin Supply	A-112
B-5	Lake Erie Monthly Mean Net Basin Supply	A-123
B-6	Lake Ontario Quarter-Monthly Mean Net Basin Supply	A-126
B-7	Lake Ontario Monthly Mean Net Basin Supply	A-137
B-8	Winter Retardation of the Outflow from Lakes Michigan-Huron	A-140
B-9	Winter Retardation of the Outflow from Lake St. Clair	A-143
B-10	Winter Retardation of the Outflow from Lake Ontario	A-146
B-11	Winter Retardation of the Outflow from Lake St. Louis	A-149

TABLE B-1

LAKE SUPERIOR MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	-22	44	-11	124	127	78	200	221	261	77	-7	-51
1901	-39	-9	52	121	126	197	187	86	13	98	-7	-30
1902	-35	11	40	129	167	171	108	75	77	58	58	-15
1903	-20	-57	94	146	290	94	164	97	113	47	12	-79
1904	-13	34	34	70	245	149	84	154	121	124	-31	37
1905	-58	37	101	108	197	183	155	137	140	25	54	-18
1906	-20	26	-10	160	165	204	88	89	71	35	33	-22
1907	7	20	67	53	241	163	117	189	142	20	-17	-87
1908	-26	19	14	113	287	196	136	54	51	-3	-56	-10
1909	-34	27	3	104	242	80	204	93	59	25	86	7
1910	-17	-21	24	123	108	80	83	104	35	0	-2	-77
1911	-12	-18	-3	65	221	174	210	130	96	11	-8	7
1912	-28	20	36	189	161	165	98	136	53	54	-49	-2
1913	-73	-7	125	145	303	120	174	108	127	63	61	-43
1914	-31	1	-3	165	188	140	126	93	80	2	18	-100
1915	50	-1	-35	131	154	240	125	76	177	92	93	22
1916	20	2	36	277	268	216	115	104	149	51	-21	23
1917	-63	19	84	71	158	168	100	124	62	21	-20	-43
1918	-2	20	-13	115	218	163	113	103	40	103	63	24
1919	-20	15	5	154	139	104	77	42	59	-10	73	-42
1920	12	25	150	132	153	193	129	72	-8	51	-43	26
1921	-66	-7	48	198	176	82	115	61	37	-22	-57	-74
1922	-40	-5	49	171	189	137	126	67	32	-25	-44	-27
1923	-28	-37	33	100	107	103	129	72	58	46	-2	-28
1924	-34	-28	-3	127	76	94	120	148	76	29	-44	-69
1925	-20	-6	45	110	110	143	111	66	81	-31	-41	-37
1926	-19	-20	53	54	144	172	171	109	160	71	62	18
1927	-12	38	108	169	272	169	184	57	72	50	11	-3
1928	-2	4	56	168	194	216	167	154	138	148	-2	-35
1929	5	38	88	124	125	113	152	38	88	36	-2	-25
1930	-16	31	-3	97	176	209	144	28	54	15	5	-43
1931	-25	-44	-15	81	139	134	117	34	89	69	70	-4
1932	-8	25	-3	114	202	89	171	121	-22	4	5	-16
1933	-18	27	-4	163	238	117	107	44	85	42	8	-24

TABLE 8-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	20	6	47	117	203	121	108	64	170	55	102	-21
19[illegible]	19	-15	97	153	140	194	175	71	42	84	10	-6
[illegible]36	4	35	85	129	283	117	48	100	40	-14	-18	5
[illegible]37	10	85	-4	190	221	89	173	113	32	46	38	-27
1938	2	18	84	253	186	222	99	114	62	27	43	-7
1[illegible]9	28	26	56	145	250	246	133	119	45	0	-25	-56
19[illegible]	-10	-20	-4	83	255	212	117	34	26	-3	34	-7
1941	-36	-9	-14	235	150	159	103	89	198	106	2	-5
1942	-16	-8	69	139	234	99	124	101	58	85	51	-34
1943	-6	19	50	124	261	296	116	109	22	21	-8	-71
1944	-31	-19	28	114	246	252	188	141	97	-34	52	-62
1945	-2	52	149	185	134	130	118	118	70	-0	25	-27
1946	14	21	110	98	134	159	100	60	110	84	22	-26
1947	-35	-7	12	199	217	293	86	103	66	12	-17	-44
1948	-29	-19	41	272	89	93	103	120	-0	-29	62	-25
1949	3	-7	23	115	184	178	178	48	28	82	-3	-19
1950	11	-6	59	150	354	224	189	121	75	90	67	-29
1951	-25	83	80	237	193	194	120	152	143	79	26	9
1952	7	-10	30	195	106	201	234	119	21	-90	5	-23
1953	-3	21	60	159	250	234	158	129	23	-14	-8	-6
1954	-11	30	3	226	267	203	85	46	53	16	16	-68
1955	-38	10	47	201	140	98	124	104	30	66	52	-43
1956	-1	-28	-15	114	212	124	162	78	36	1	-9	0
1957	-65	22	48	186	127	175	112	51	59	-18	57	-30
1958	-4	-8	11	101	90	158	153	101	88	8	40	-42
1959	-28	1	34	110	284	138	92	202	136	62	-33	-17
1960	2	-24	5	235	265	128	110	83	35	1	53	-71
1961	-25	40	66	120	166	106	88	32	88	51	-4	-7
1962	-51	44	30	94	217	97	85	110	72	-16	-41	-37
1963	1	0	71	142	128	198	80	86	46	4	8	-66
1964	15	-30	8	203	265	177	90	135	113	17	36	-12
1965	-18	19	48	152	253	131	119	118	133	65	87	17
1966	-4	14	100	137	193	112	108	146	3	76	9	4
1967	14	18	48	237	105	185	101	106	-11	68	-6	-22

TABLE B-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	-22	-15	78	228	148	257	239	166	167	100	-39	29
1969	63	9	9	203	159	123	108	108	15	19	-3	-39
1970	9	7	15	172	271	138	167	50	77	103	77	14
1971	-40	87	52	175	237	162	113	83	60	115	40	-9
1972	16	14	77	153	198	118	173	200	104	-2	29	-17
1973	-20	6	130	116	215	152	135	143	40	43	-16	-18
1974	1	3	11	187	177	202	152	145	42	48	38	-8
1975	27	30	4	106	183	180	98	31	52	-11	108	-22
1976	-15	21	96	190	91	155	80	13	-50	-37	-57	-57

TABLE B-2

LAKE MICHIGAN-HURON MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	-1	162	60	246	175	156	268	145	78	73	56	-61
1901	10	27	284	230	223	175	208	79	-64	35	-74	48
1902	-12	52	212	207	257	272	276	8	45	-52	78	-45
1903	59	144	273	215	245	155	147	107	148	12	-51	4
1904	44	115	304	334	370	207	134	76	64	24	-68	-40
1905	1	79	254	190	337	286	181	82	27	-60	36	13
1906	169	122	149	255	215	214	103	5	32	3	80	41
1907	141	71	184	224	267	226	148	62	68	-44	-7	40
1908	3	125	210	288	389	187	192	-43	-45	-71	-86	-12
1909	57	116	126	384	343	207	126	36	20	-109	69	92
1910	69	55	162	298	194	138	76	76	56	24	13	-60
1911	91	82	114	266	293	187	61	47	78	83	92	95
1912	47	93	90	299	484	170	170	164	125	39	98	44
1913	66	59	272	395	306	172	143	43	-15	21	88	-55
1914	57	64	146	199	240	251	124	66	15	-9	-56	-49
1915	91	128	64	148	195	211	154	100	134	-73	80	7
1916	135	90	194	416	354	311	117	-25	10	42	25	114
1917	45	43	197	306	236	395	240	35	3	-32	28	-9
1918	96	187	264	235	374	146	129	50	-30	63	76	141
1919	25	50	260	302	309	106	104	-7	24	80	40	43
1920	-10	67	305	307	157	223	141	75	66	-5	-20	61
1921	74	34	258	383	147	135	49	73	55	-6	6	127
1922	-7	164	223	461	270	217	214	4	46	-95	26	-34
1923	5	40	191	308	306	208	108	59	83	10	-45	42
1924	-7	106	196	245	291	202	172	190	22	-80	-21	-68
1925	-1	93	183	150	71	195	121	-21	-7	-34	17	20
1926	34	80	141	292	250	277	133	100	80	60	161	51
1927	54	107	223	225	333	179	143	-38	52	3	91	50
1928	51	99	185	407	267	269	188	131	48	198	133	86
1929	124	47	317	474	401	225	124	29	-35	1	-8	-37
1930	74	182	143	200	240	242	143	-24	-62	-71	-50	-24
1931	-29	-9	121	132	192	156	62	-56	163	-25	149	-50
1932	208	73	59	180	236	116	109	46	-58	24	-16	94
1933	54	71	79	361	360	158	78	-57	-20	-22	-18	42

TABLE B-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	77	-28	126	276	150	166	49	-33	143	-55	131	54
1935	29	114	192	174	137	242	110	8	0	-50	86	-39
1936	86	94	178	195	258	112	36	71	80	23	-80	67
1937	87	116	40	325	217	173	80	47	-1	-6	33	-32
1938	119	230	310	260	244	216	111	81	29	-65	-22	15
1939	36	124	122	297	236	257	80	91	-32	-51	-38	-22
1940	-22	28	44	195	291	264	124	127	54	-36	72	92
1941	71	46	44	293	169	120	89	-13	126	181	128	51
1942	53	52	274	220	323	236	106	-12	55	28	54	53
1943	68	149	241	276	363	398	170	84	-34	-36	59	-67
1944	41	65	152	189	223	254	92	-9	77	-58	14	-34
1945	6	67	221	230	304	298	135	41	82	29	70	23
1946	113	108	279	146	209	202	59	-15	-5	-30	-50	15
1947	45	47	107	447	395	279	152	53	32	19	-20	-89
1948	-1	89	298	291	229	158	91	-8	-81	-136	134	-16
1949	97	88	94	228	166	239	120	-49	-59	-41	-49	22
1950	160	99	198	343	215	229	163	60	26	-17	4	45
1951	105	141	228	490	200	183	223	102	18	151	110	90
1952	179	83	192	386	208	198	233	100	-61	-193	63	60
1953	56	107	228	261	230	246	112	67	-74	-37	-57	-17
1954	-17	130	162	344	228	317	113	40	78	256	53	23
1955	45	64	143	313	176	135	49	-19	-127	47	-13	-30
1956	25	61	144	262	317	179	170	132	-58	-34	-13	21
1957	-13	64	109	239	251	238	180	-11	15	2	69	92
1958	49	21	74	159	65	152	128	27	34	-36	-49	-43
1959	28	88	180	386	262	111	94	171	30	78	89	112
1960	103	108	75	424	496	266	193	98	-1	-60	75	-80
1961	-24	82	173	216	147	191	125	57	134	22	19	-10
1962	63	103	169	232	232	146	71	61	-6	-25	-64	-51
1963	-14	51	210	215	216	113	113	62	-4	-33	-37	-74
1964	19	-10	90	236	209	107	116	30	29	-82	13	2
1965	58	95	146	360	263	122	62	88	201	43	84	126
1966	38	98	254	205	150	134	38	12	-84	-55	148	134
1967	98	68	161	435	187	326	81	42	-18	54	81	148

TABLE B-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	38	92	130	256	202	264	124	126	101	-42	21	78
1969	88	67	108	321	291	312	202	23	-88	55	59	-6
1970	46	29	119	282	283	225	226	-11	184	22	43	91
1971	40	139	206	323	212	176	133	56	20	21	-29	160
1972	-20	74	159	343	254	179	186	230	79	21	51	117
1973	130	82	336	299	381	250	104	126	-61	43	-4	45
1974	151	101	182	360	286	266	140	45	-20	-15	40	30
1975	51	158	171	273	275	240	94	91	16	-83	97	66
1976	18	184	399	308	260	172	98	-37	-78	-94	-22	-96

TABLE B-3

LAKE ST. CLAIR MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	3	8	10	6	3	3	3	3	-1	-1	0	-2
1901	2	16	10	-7	-6	-2	1	1	-1	-1	0	6
1902	-6	6	1	-4	1	4	13	2	2	1	-2	9
1903	11	3	12	9	9	8	9	3	2	-2	2	20
1904	2	21	13	13	8	1	2	2	0	-1	0	6
1905	4	17	18	-2	4	6	6	4	1	2	2	2
1906	1	-6	3	-8	3	6	5	2	1	1	3	-1
1907	19	5	6	5	8	1	3	3	2	2	1	4
1908	6	17	15	8	10	6	4	4	-1	4	-1	-0
1909	6	8	0	12	9	2	1	-1	-2	1	7	5
1910	16	0	-1	7	7	4	0	0	-1	1	2	3
1911	-4	8	0	2	2	2	-1	0	0	1	3	3
1912	4	0	7	9	10	4	5	3	3	3	4	3
1913	4	-2	6	17	10	2	0	-1	-1	2	5	-2
1914	7	5	2	-1	8	2	1	4	2	0	3	14
1915	-4	11	-10	0	7	2	5	6	3	-1	0	3
1916	17	7	-2	5	12	0	-1	2	0	1	0	11
1917	-8	0	-1	9	12	6	2	3	-4	4	4	1
1918	5	12	-5	20	12	2	4	2	4	2	4	4
1919	14	0	14	15	11	4	-0	4	4	5	5	-4
1920	0	8	8	4	-4	2	1	2	-1	2	1	-3
1921	-1	-10	14	8	0	1	[illegible]	0	-1	4	-1	3
1922	12	4	10	1	-5	2	1	0	0	0	1	3
1923	9	2	8	4	2	2	1	-1	1	1	2	-5
1924	8	-2	2	0	2	3	1	0	-0	1	1	6
1925	8	2	10	-7	-7	3	1	0	1	1	4	-9
1926	2	-2	9	3	3	-2	-2	-1	2	4	9	5
1927	-1	0	8	4	3	0	3	-2	-1	0	5	3
1928	17	18	4	-4	2	3	1	0	0	3	0	3
1929	13	3	10	22	15	8	8	1	-1	-2	0	7
1930	11	6	7	13	10	4	4	0	0	5	-3	0
1931	0	2	2	5	-2	0	1	-1	2	2	2	6
1932	3	8	-3	-0	8	1	2	0	0	-1	1	17
1933	4	16	7	11	8	8	2	-1	-2	-2	-0	2

TABLE B-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	4	1	11	9	1	1	0	-2	0	-2	-1	4
1935	5	8	1	0	7	-3	-0	0	-1	0	-2	-2
1936	4	5	2	-3	-2	0	-1	-1	3	-2	-1	0
1937	9	6	-1	17	5	2	0	-2	-5	0	-2	-1
1938	1	11	15	5	3	0	0	-1	-1	-1	0	1
1939	-3	7	10	12	1	1	-1	-3	0	-2	0	-2
1940	6	0	1	4	2	5	1	-1	1	1	6	8
1941	4	1	-4	-1	1	1	1	-2	0	0	1	-3
1942	4	2	4	5	3	4	2	0	2	-4	2	5
1943	12	4	17	4	21	7	9	2	1	2	1	-4
1944	1	-1	5	7	5	7	4	-0	1	-1	-1	6
1945	2	-1	5	6	16	9	7	2	5	8	0	6
1946	5	9	9	0	3	7	2	1	-2	-1	-2	0
1947	10	2	6	30	14	12	8	8	4	2	-1	3
1948	9	10	19	8	15	6	6	4	2	-1	0	2
1949	12	18	4	7	3	1	0	-2	-1	0	-2	8
1950	20	14	18	22	5	4	4	0	3	3	1	8
1951	6	15	13	13	6	8	6	4	3	2	4	16
1952	18	11	15	13	6	4	5	4	4	-2	2	2
1953	1	4	10	7	5	6	6	2	0	-2	0	1
1954	-3	15	14	12	5	7	4	0	2	8	1	3
1955	10	7	14	8	4	4	5	0	6	6	2	6
1956	1	3	14	13	28	7	6	10	8	5	1	2
1957	2	2	4	10	8	2	9	3	6	2	2	7
1958	-9	4	7	-4	3	4	5	2	3	2	-3	7
1959	2	5	18	12	6	1	1	2	0	4	5	11
1960	9	8	6	20	6	8	0	1	0	-1	0	1
1961	0	7	7	12	6	4	3	3	2	0	1	3
1962	0	1	15	4	1	3	0	1	0	0	3	2
1963	1	0	12	8	3	3	2	0	0	0	-1	4
1964	2	3	9	8	4	2	2	3	1	-1	0	3
1965	5	13	14	15	3	1	2	1	1	1	2	10
1966	3	6	10	8	3	4	1	2	1	0	5	12
1967	6	4	13	15	3	7	4	2	1	6	5	14

TABLE 8-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	5	17	12	6	5	7	3	2	0	0	2	8
1969	9	12	7	12	8	5	3	0	-2	-1	3	2
1970	1	4	8	10	3	2	2	-1	0	1	2	6
1971	1	8	13	6	-1	1	-2	-1	0	0	-1	5
1972	5	2	13	12	3	1	2	2	0	1	7	9
1973	11	5	25	6	4	5	1	0	0	0	4	8
1974	16	11	15	11	8	1	0	0	-2	1	2	3
1975	9	11	13	12	1	3	-1	4	4	2	2	6
1976	2	19	22	7	6	1	6	1	0	1	1	2

TABLE B-4

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1900	JAN	-148	34	35	45	FEB	36	62	59	87	MAR	86	84	90	86
	APR	52	52	54	36	MAY	40	22	20	19	JUN	40	-3	-7	20
	JUL	12	-9	9	8	AUG	-13	8	26	-36	SEP	-36	-57	-80	17
	OCT	-25	-27	-26	-50	NOV	-23	-36	20	8	DEC	28	-19	-41	-31
1901	JAN	12	34	22	-27	FEB	-6	-53	-54	5	MAR	10	73	55	100
	APR	67	47	63	27	MAY	4	6	66	68	JUN	14	52	34	-4
	JUL	34	-37	-32	9	AUG	-57	-58	4	27	SEP	-10	-69	-50	-34
	OCT	-74	-28	-27	-37	NOV	-30	-25	-17	-14	DEC	-32	19	19	-4
1902	JAN	38	-3	-14	-36	FEB	-39	-6	-11	-14	MAR	94	56	61	58
	APR	83	48	26	11	MAY	90	25	27	36	JUN	24	47	32	88
	JUL	152	10	75	54	AUG	-3	-28	-51	-56	SEP	-45	-6	28	69
	OCT	1	5	-26	-48	NOV	-28	-6	16	-48	DEC	-29	-4	41	22
1903	JAN	25	0	38	-4	FEB	124	132	-57	45	MAR	221	100	64	48
	APR	142	204	8	7	MAY	11	8	7	24	JUN	40	24	25	4
	JUL	16	-4	37	-5	AUG	-44	-25	-26	74	SEP	-7	-7	-69	-30
	OCT	10	-17	-49	-74	NOV	-60	-12	-12	-2	DEC	-65	-35	-44	-24
1904	JAN	-5	-6	55	84	FEB	16	15	-6	58	MAR	173	91	75	272
	APR	182	72	21	59	MAY	47	28	7	111	JUN	92	-14	-12	8
	JUL	42	23	21	-43	AUG	-47	-28	14	-9	SEP	-8	-30	-34	-11
	OCT	-33	-17	-72	-16	NOV	24	-98	-42	-15	DEC	-13	-1	-53	-29
1905	JAN	19	18	74	7	FEB	-18	-17	2	-1	MAR	-19	3	92	152
	APR	32	55	83	65	MAY	42	110	76	32	JUN	90	74	78	-21
	JUL	-9	34	-7	-10	AUG	-54	29	9	-54	SEP	-30	-17	11	-36
	OCT	-15	-55	-31	-93	NOV	5	-17	-8	3	DEC	9	23	-35	-4
1906	JAN	19	2	99	27	FEB	33	1	-41	41	MAR	-21	62	-15	102
	APR	85	49	50	30	MAY	22	26	22	-1	JUN	43	40	3	5
	JUL	21	1	-17	1	AUG	1	1	23	-41	SEP	-57	-19	-20	-2
	OCT	-38	9	-5	13	NOV	-22	4	-12	16	DEC	136	66	88	-80

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1907	JAN	171	176	77	-55	FEB	-1	-27	31	2	MAR	-14	1	130	157
	APR	24	12	-10	50	MAY	53	-6	58	80	JUN	83	59	24	26
	JUL	18	18	20	-20	AUG	-4	-31	-55	-34	SEP	11	-8	9	5
	OCT	12	-6	-33	4	NOV	-4	-46	-15	-9	DEC	-7	12	44	88
1908	JAN	148	38	7	-25	FEB	9	68	75	97	MAR	67	137	98	122
	APR	83	85	22	25	MAY	67	69	49	52	JUN	3	-1	-1	0
	JUL	-5	-28	35	-11	AUG	-30	11	-9	-62	SEP	-68	-14	-35	-29
	OCT	-39	-61	-26	-20	NOV	-114	-94	0	-59	DEC	-4	27	-17	-32
1909	JAN	76	-14	-15	13	FEB	57	74	70	163	MAR	81	21	19	86
	APR	48	67	45	87	MAY	147	168	25	45	JUN	105	5	29	27
	JUL	-39	2	2	-2	AUG	-3	-4	-26	-26	SEP	-47	-13	-36	-73
	OCT	-59	-66	-19	-43	NOV	24	-22	33	-1	DEC	-37	-11	31	-5
1910	JAN	-28	-8	19	14	FEB	18	36	15	78	MAR	156	75	33	58
	APR	47	25	91	99	MAY	99	-2	18	42	JUN	43	-1	0	-23
	JUL	-2	21	-5	20	AUG	-22	14	-30	-11	SEP	14	-33	-37	-14
	OCT	30	10	-11	-70	NOV	-55	-6	-34	50	DEC	-8	-17	-27	-11
1911	JAN	-12	65	1	83	FEB	31	34	32	19	MAR	10	11	34	78
	APR	85	49	114	34	MAY	17	15	35	16	JUN	33	15	12	-11
	JUL	-14	-13	-34	-30	AUG	1	22	-14	-21	SEP	1	-18	3	24
	OCT	-1	2	-12	-35	NOV	-73	-24	77	-44	DEC	74	133	13	-15
1912	JAN	-7	53	40	17	FEB	-5	-8	7	58	MAR	9	10	138	167
	APR	143	166	68	45	MAY	21	69	47	29	JUN	22	18	43	-5
	JUL	-31	14	10	13	AUG	-28	37	15	14	SEP	35	-8	-29	-9
	OCT	-34	-54	26	7	NOV	-12	-12	-78	-50	DEC	-32	-2	-18	23
1913	JAN	195	75	213	9	FEB	46	61	27	10	MAR	-22	56	127	564
	APR	202	72	16	58	MAY	20	16	19	38	JUN	39	-3	15	-6
	JUL	34	-10	-16	2	AUG	-40	-2	-3	-63	SEP	15	-94	-91	34
	OCT	6	-36	-58	-37	NOV	-10	38	52	47	DEC	-42	-80	77	10

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1914	JAN	7	22	10	-13	FEB	4	20	8	-36	MAR	-18	0	45	209
	APR	97	61	37	101	MAY	100	190	53	32	JUN	28	9	-16	8
	JUL	0	20	-18	-5	AUG	-52	-8	34	-12	SEP	-3	-58	6	-56
	OCT	-37	47	5	-156	NOV	-33	-61	-8	1	DEC	26	-95	-4	-21
1915	JAN	52	-0	22	39	FEB	72	59	82	46	MAR	21	-20	-21	46
	APR	18	20	18	0	MAY	45	49	6	46	JUN	28	11	11	30
	JUL	30	51	33	32	AUG	56	38	36	-27	SEP	-5	19	21	14
	OCT	-64	16	16	-88	NOV	-7	-69	-1	-24	DEC	36	-6	-23	93
1916	JAN	145	42	32	119	FEB	79	21	21	-22	MAR	34	73	73	180
	APR	79	64	87	67	MAY	64	66	48	112	JUN	71	75	36	34
	JUL	26	-21	2	-20	AUG	-50	-28	-11	-75	SEP	-8	-53	-74	-17
	OCT	-42	-33	-34	-40	NOV	-1	-3	-84	8	DEC	2	-12	20	-2
1917	JAN	57	73	-4	3	FEB	-13	-21	-3	40	MAR	-9	101	46	136
	APR	249	27	25	25	MAY	50	58	83	84	JUN	108	68	28	96
	JUL	67	70	28	-13	AUG	-42	-23	-27	-4	SEP	23	-22	-46	-20
	OCT	-24	-23	9	62	NOV	42	-4	17	-27	DEC	24	-17	-23	-5
1918	JAN	-60	-48	-2	-9	FEB	-26	14	125	65	MAR	108	108	97	-10
	APR	40	-76	-27	-51	MAY	-18	88	28	30	JUN	30	-9	9	-13
	JUL	13	-11	-13	-13	AUG	-9	-6	-56	-10	SEP	13	-27	-25	-46
	OCT	-1	-40	15	-2	NOV	-27	-46	-22	-53	DEC	46	78	40	28
1919	JAN	-94	-14	41	25	FEB	-6	8	11	-25	MAR	66	64	137	100
	APR	5	68	118	21	MAY	148	63	94	54	JUN	15	13	-10	6
	JUL	-18	3	-21	-18	AUG	19	-48	-2	-24	SEP	-26	-28	-29	-31
	OCT	-10	-11	-35	29	NOV	6	-72	-29	-34	DEC	9	-24	-40	-102
1920	JAN	6	18	9	8	FEB	-81	-35	8	4	MAR	-24	83	108	50
	APR	70	90	134	85	MAY	51	30	32	12	JUN	5	48	70	9
	JUL	4	26	27	-16	AUG	-39	47	1	-38	SEP	-39	-17	-21	-44
	OCT	-38	-24	-24	-15	NOV	-6	16	-2	22	DEC	42	-13	7	8

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1921	JAN	77	-30	34	17	FEB	61	16	38	16	MAR	65	112	76	102
	APR	59	82	102	110	MAY	7	7	26	50	JUN	1	6	2	45
	JUL	2	21	-64	-20	AUG	-25	-6	-8	-31	SEP	-7	-7	-45	-47
	OCT	-28	-33	-12	-9	NOV	6	-10	94	-9	DEC	18	13	63	-60
1922	JAN	-3	-9	-12	-28	FEB	21	-10	31	54	MAR	-13	70	79	180
	APR	139	126	95	45	MAY	50	27	94	53	JUN	-4	44	19	-4
	JUL	-6	15	-27	10	AUG	-7	-54	-33	8	SEP	11	33	-57	-57
	OCT	9	-74	-75	-41	NOV	-18	-39	-53	-58	DEC	9	-11	-38	55
1923	JAN	69	-5	32	-20	FEB	-28	-4	11	7	MAR	52	78	106	66
	APR	50	64	37	34	MAY	33	64	107	40	JUN	34	10	-11	15
	JUL	27	-12	6	-37	AUG	-16	-36	-60	-41	SEP	22	-18	-4	-2
	OCT	-84	-45	-27	-46	NOV	-3	-26	-22	-22	DEC	122	46	82	75
1924	JAN	-24	51	19	49	FEB	51	57	10	-11	MAR	43	21	42	131
	APR	107	87	90	51	MAY	90	53	36	39	JUN	42	41	44	114
	JUL	3	7	4	1	AUG	-2	-23	-48	-28	SEP	15	-4	-10	-13
	OCT	20	-9	-51	-72	NOV	-24	-52	-89	21	DEC	-20	40	26	7
1925	JAN	4	-22	0	-25	FEB	3	49	68	102	MAR	35	56	126	87
	APR	19	21	57	22	MAY	27	1	24	-22	JUN	14	-6	36	14
	JUL	-12	10	-30	29	AUG	-9	55	-32	-38	SEP	-31	94	-48	11
	OCT	-55	-75	-7	10	NOV	-30	39	46	34	DEC	0	1	-19	-79
1926	JAN	42	9	13	32	FEB	9	8	9	35	MAR	61	18	45	95
	APR	274	106	11	46	MAY	45	2	6	10	JUN	31	82	26	7
	JUL	0	3	-9	29	AUG	33	66	3	-43	SEP	54	21	76	108
	OCT	70	-11	-6	34	NOV	18	8	31	50	DEC	22	-6	2	-13
1927	JAN	16	-11	29	16	FEB	72	30	30	46	MAR	10	80	193	101
	APR	71	18	41	26	MAY	53	68	92	64	JUN	46	2	42	2
	JUL	2	25	33	20	AUG	-25	-9	-31	-43	SEP	9	1	-73	-9
	OCT	-1	-31	-56	-11	NOV	-44	-12	73	189	DEC	34	112	63	25

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1928	JAN	33	64	8	9	FEB	27	61	48	6	MAR	-23	14	20	133
	APR	82	44	61	30	MAY	8	9	52	17	JUN	102	36	80	77
	JUL	20	36	50	-20	AUG	42	-38	-36	-37	SEP	-51	-15	-72	-41
	OCT	-19	-2	17	-66	NOV	13	-17	25	12	DEC	3	16	17	-4
1929	JAN	-16	18	162	-18	FEB	20	14	9	85	MAR	74	59	146	87
	APR	153	77	125	131	MAY	65	61	52	17	JUN	-21	19	8	7
	JUL	43	0	-38	-1	AUG	-59	-23	-38	-44	SEP	3	-54	-58	2
	OCT	-76	-43	17	7	NOV	-20	35	14	-21	DEC	4	78	74	-20
1930	JAN	277	205	38	-35	FEB	-9	7	20	184	MAR	61	38	54	94
	APR	39	59	60	29	MAY	12	12	17	-19	JUN	29	25	32	5
	JUL	-26	-20	4	-41	AUG	-26	-65	-28	-2	SEP	-44	-24	-21	-27
	OCT	-44	-2	-73	-23	NOV	-47	21	-58	-29	DEC	56	19	-29	-51
1931	JAN	72	-12	3	-11	FEB	12	10	53	0	MAR	-1	-4	44	138
	APR	61	33	52	47	MAY	51	26	16	35	JUN	60	21	6	17
	JUL	37	-10	16	-18	AUG	-1	1	-50	-36	SEP	-13	11	-12	-32
	OCT	-1	-43	-44	-20	NOV	-60	55	42	-57	DEC	2	2	65	75
1932	JAN	87	63	159	61	FEB	14	73	47	14	MAR	5	20	19	61
	APR	72	61	45	19	MAY	106	59	5	58	JUN	32	10	-16	20
	JUL	17	28	14	-21	AUG	6	-34	-30	7	SEP	-12	-29	-47	-53
	OCT	-53	-9	-3	-11	NOV	17	8	-11	11	DEC	14	-46	0	139
1933	JAN	45	-8	82	38	FEB	5	-5	-15	56	MAR	33	84	107	82
	APR	106	87	70	24	MAY	99	97	63	27	JUN	26	-21	-16	9
	JUL	2	-14	-22	-24	AUG	12	-9	-62	-33	SEP	-16	-16	-64	15
	OCT	-16	-57	-19	-46	NOV	-39	-68	21	-17	DEC	40	15	27	-11
1934	JAN	39	-8	-1	-12	FEB	-4	-13	-13	-3	MAR	30	1	34	48
	APR	102	86	64	2	MAY	8	15	6	12	JUN	-2	-7	32	13
	JUL	-10	-10	-28	-32	AUG	27	14	-63	-42	SEP	1	13	2	-21
	OCT	-64	-73	-15	-67	NOV	-18	-58	41	-15	DEC	6	-51	18	-15

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1935	JAN	35	37	27	-38	FEB	-45	-18	8	-4	MAR	50	73	73	49
	APR	17	21	13	17	MAY	90	43	-6	41	JUN	31	2	47	9
	JUL	18	6	2	3	AUG	50	-6	-26	-93	SEP	-31	-8	-38	-71
	OCT	-62	-2	-17	-3	NOV	-27	24	-54	-18	DEC	24	75	-6	-47
1936	JAN	-35	-41	-67	-37	FEB	-25	-19	-21	110	MAR	51	78	121	189
	APR	62	45	37	48	MAY	47	12	9	0	JUN	21	-3	-26	13
	JUL	-1	-6	-40	-34	AUG	-34	-23	2	-56	SEP	-27	26	-59	3
	OCT	-14	-28	-20	-15	NOV	-1	-33	-58	-27	DEC	3	-26	-20	68
1937	JAN	58	138	208	64	FEB	82	61	84	17	MAR	8	1	27	12
	APR	55	106	163	171	MAY	26	26	64	23	JUN	24	72	163	89
	JUL	24	69	21	-6	AUG	19	30	-9	-16	SEP	-36	-69	-59	-21
	OCT	-46	-26	-1	-12	NOV	-50	13	-44	-15	DEC	-38	39	33	47
1938	JAN	29	25	-30	16	FEB	40	162	164	39	MAR	32	17	121	142
	APR	110	79	25	9	MAY	14	11	88	27	JUN	15	63	4	21
	JUL	7	15	31	11	AUG	42	-14	-34	-56	SEP	-41	44	-37	-25
	OCT	-71	4	-42	-38	NOV	-40	-25	20	-40	DEC	13	-6	-18	-49
1939	JAN	37	64	-30	26	FEB	-15	-4	107	57	MAR	86	79	2	119
	APR	36	125	126	55	MAY	13	13	11	26	JUN	44	9	38	19
	JUL	19	-36	-37	68	AUG	-25	2	-45	-30	SEP	-34	-19	-81	-14
	OCT	-19	-64	-58	26	NOV	-66	-4	-5	-42	DEC	2	-13	-17	-61
1940	JAN	36	-19	-16	-29	FEB	5	26	40	36	MAR	36	37	37	82
	APR	142	113	128	34	MAY	36	35	56	103	JUN	50	39	38	56
	JUL	9	11	16	-14	AUG	-5	-8	-39	79	SEP	-11	-43	-10	-7
	OCT	-31	-3	-60	-3	NOV	-51	-34	9	-3	DEC	-1	83	48	103
1941	JAN	75	29	12	-45	FEB	6	25	-2	6	MAR	41	0	31	46
	APR	88	15	46	27	MAY	14	32	22	24	JUN	28	32	10	6
	JUL	-30	16	-21	24	AUG	-38	-30	-43	11	SEP	-16	-50	-34	-70
	OCT	32	-51	-20	-27	NOV	-29	2	-6	-2	DEC	-30	-34	48	25

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1942	JAN	-66	5	6	25	FEB	126	29	62	12	MAR	-8	159	166	100
	APR	111	127	38	10	MAY	21	48	68	85	JUN	46	41	13	-6
	JUL	3	-4	45	23	AUG	-4	5	-42	-16	SEP	-6	-19	-42	-17
	OCT	-13	46	-30	-16	NOV	-3	-16	96	-2	DEC	-16	-6	-8	200
1943	JAN	90	6	-35	-22	FEB	40	58	10	80	MAR	-17	54	142	56
	APR	41	23	108	97	MAY	98	137	209	97	JUN	81	42	33	4
	JUL	62	36	19	-1	AUG	-5	-17	-49	-24	SEP	-17	-29	-47	-28
	OCT	-46	-29	10	-24	NOV	-27	-2	-13	-22	DEC	-7	-26	-42	-8
1944	JAN	-22	-27	-34	46	FEB	26	23	8	64	MAR	29	25	83	94
	APR	79	230	101	44	MAY	56	64	77	36	JUN	13	22	33	31
	JUL	-23	-22	-49	-24	AUG	8	-10	-27	-47	SEP	-12	-8	-24	8
	OCT	-41	-40	-48	-42	NOV	-23	30	-23	-43	DEC	-15	1	-16	3
1945	JAN	21	3	-54	-16	FEB	-14	14	22	126	MAR	143	65	178	77
	APR	137	16	39	47	MAY	53	60	172	37	JUN	43	49	122	43
	JUL	-11	14	14	9	AUG	-11	-7	-27	-64	SEP	-15	0	10	111
	OCT	85	-55	26	-19	NOV	-33	-22	1	41	DEC	-5	-40	5	17
1946	JAN	88	66	-19	-76	FEB	-33	15	18	18	MAR	94	86	69	34
	APR	-7	-1	21	-2	MAY	8	66	69	73	JUN	50	83	121	15
	JUL	-3	-17	13	-17	AUG	-36	-26	-18	-72	SEP	-18	-21	-22	-42
	OCT	-31	-26	3	1	NOV	-22	-7	-66	19	DEC	-32	7	-17	49
1947	JAN	-3	20	15	141	FEB	19	-17	-29	8	MAR	-10	47	67	132
	APR	252	97	148	70	MAY	114	61	120	97	JUN	191	77	6	12
	JUL	-18	26	-7	0	AUG	1	4	5	23	SEP	10	-61	-28	-85
	OCT	-27	-8	-1	6	NOV	-63	-22	-40	-33	DEC	53	-8	49	28
1948	JAN	16	-11	-30	-47	FEB	-34	21	72	105	MAR	22	11	272	124
	APR	78	83	39	55	MAY	71	144	47	4	JUN	36	-6	42	56
	JUL	-17	17	-10	-26	AUG	-39	7	5	-30	SEP	-25	-23	-54	-48
	OCT	-75	-2	-5	-10	NOV	0	-15	37	5	DEC	-30	23	10	14

TABLE 8-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1949	JAN	44	50	106	22	FEB	25	23	136	67	MAR	46	17	12	125
	APR	45	37	41	43	MAY	30	-4	129	9	JUN	-8	25	32	32
	JUL	-10	-11	12	2	AUG	-44	7	-64	-11	SEP	1	-51	-42	-11
	OCT	10	17	-48	-50	NOV	-55	5	-4	7	DEC	-27	18	62	77
1950	JAN	179	118	124	129	FEB	42	170	108	-50	MAR	25	80	91	226
	APR	177	38	61	98	MAY	17	38	21	29	JUN	50	47	-7	14
	JUL	10	-15	35	15	AUG	-43	-32	-33	54	SEP	-9	18	-45	-23
	OCT	-26	48	-19	-14	NOV	-32	-7	73	64	DEC	156	57	-23	-16
1951	JAN	111	55	58	23	FEB	-16	81	113	148	MAR	99	79	63	111
	APR	83	86	53	73	MAY	27	89	35	29	JUN	10	35	40	22
	JUL	-18	3	0	-11	AUG	-31	-10	-64	-16	SEP	-57	-2	-43	-51
	OCT	-3	-48	1	-40	NOV	2	41	-18	12	DEC	45	2	5	44
1952	JAN	93	12	174	111	FEB	112	49	11	13	MAR	12	129	79	53
	APR	58	121	45	27	MAY	-5	49	49	65	JUN	12	1	-27	20
	JUL	-10	-23	8	-60	AUG	-32	8	-13	-29	SEP	-28	-25	-26	-65
	OCT	-75	-63	-81	-74	NOV	-42	2	-5	12	DEC	28	9	34	-1
1953	JAN	34	11	66	23	FEB	-4	7	3	50	MAR	53	48	47	73
	APR	32	27	24	51	MAY	33	35	94	81	JUN	40	16	-11	14
	JUL	-2	-34	-9	-8	AUG	20	-33	-49	-16	SEP	-35	-91	-19	-53
	OCT	-45	-34	-2	-84	NOV	-21	-29	-4	10	DEC	-42	34	-51	-3
1954	JAN	51	-10	11	18	FEB	-28	21	169	86	MAR	54	32	38	178
	APR	82	121	151	70	MAY	25	11	-6	0	JUN	29	11	10	-13
	JUL	-15	-15	-41	-6	AUG	-19	-35	28	-36	SEP	-26	-30	-60	-1
	OCT	10	133	107	-10	NOV	-10	-16	26	-3	DEC	-17	31	-8	70
1955	JAN	164	12	-29	-34	FEB	-11	12	55	123	MAR	132	101	74	54
	APR	20	68	94	71	MAY	-2	-8	28	29	JUN	14	10	-5	-17
	JUL	17	-43	1	-15	AUG	21	15	-17	-43	SEP	-41	-27	-38	-34
	OCT	17	46	-42	-40	NOV	-35	1	25	-3	DEC	44	-30	6	-1

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1956	JAN	54	-54	-104	-38	FEB	5	36	33	115	MAR	179	93	46	95
	APR	116	45	24	132	MAY	118	243	41	21	JUN	36	17	46	12
	JUL	17	38	33	-26	AUG	57	22	-32	48	SEP	-29	-21	-66	-50
	OCT	-42	-20	-8	-22	NOV	-47	-68	-12	-34	DEC	70	32	26	-7
1957	JAN	13	-14	60	28	FEB	12	77	20	94	MAR	30	31	46	33
	APR	205	132	79	92	MAY	2	64	92	27	JUN	22	42	29	110
	JUL	70	67	-4	-28	AUG	-41	-2	-49	-15	SEP	-52	44	21	-61
	OCT	-65	-30	-6	-9	NOV	-66	27	-6	22	DEC	42	18	109	77
1958	JAN	20	35	1	-24	FEB	-34	16	0	67	MAR	58	26	28	30
	APR	63	41	54	42	MAY	37	27	18	8	JUN	47	45	28	41
	JUL	55	72	5	-0	AUG	35	38	-34	-28	SEP	1	-15	48	-37
	OCT	-75	-28	-7	-18	NOV	-84	45	35	-37	DEC	-21	-30	17	-2
1959	JAN	-26	27	168	83	FEB	52	129	88	60	MAR	86	45	72	108
	APR	146	50	11	136	MAY	51	69	52	49	JUN	23	-26	-4	36
	JUL	-20	-4	-5	4	AUG	-26	-35	19	18	SEP	-45	-68	-83	44
	OCT	96	-62	-35	-1	NOV	-15	32	-17	11	DEC	-9	138	47	52
1960	JAN	-6	117	45	8	FEB	13	96	45	45	MAR	10	-4	29	106
	APR	149	40	58	36	MAY	45	80	61	39	JUN	21	106	26	26
	JUL	5	-1	6	6	AUG	9	-4	0	-21	SEP	-23	-69	-6	-49
	OCT	-78	-14	-78	-46	NOV	-56	-10	-2	-7	DEC	-45	-56	1	18
1961	JAN	-5	19	-21	-19	FEB	-15	14	64	124	MAR	100	69	78	30
	APR	47	92	149	238	MAY	73	45	26	9	JUN	68	38	24	14
	JUL	-18	22	24	41	AUG	23	-24	-2	17	SEP	29	-44	-40	-33
	OCT	-55	-37	-31	-62	NOV	-52	3	14	-26	DEC	1	-11	13	-56
1962	JAN	-19	17	16	51	FEB	16	-3	31	67	MAR	30	77	105	58
	APR	40	32	12	27	MAY	35	5	14	10	JUN	25	46	16	-9
	JUL	-24	-16	20	-39	AUG	34	-49	-19	-20	SEP	-48	-20	-57	17
	OCT	24	-11	-32	-70	NOV	16	53	-50	-8	DEC	45	-24	-15	-15

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1963	JAN	5	-10	-20	-12	FEB	7	5	20	-32	MAR	85	121	141	130
	APR	73	-8	92	48	MAY	20	19	21	25	JUN	13	30	-30	3
	JUL	-53	10	13	4	AUG	-30	15	-32	-26	SEP	-28	-33	-43	-42
	OCT	-56	-14	-14	-44	NOV	-27	-35	4	-21	DEC	-22	-28	-7	-25
1964	JAN	37	9	-2	1	FEB	40	11	26	-11	MAR	89	108	46	81
	APR	128	25	71	113	MAY	28	54	11	3	JUN	34	23	25	-12
	JUL	0	9	7	-43	AUG	-5	-31	28	12	SEP	-43	-57	-16	-41
	OCT	-83	-44	-42	6	NOV	-33	-22	-53	5	DEC	5	4	2	41
1965	JAN	73	34	27	3	FEB	1	129	55	47	MAR	141	73	34	32
	APR	58	70	60	38	MAY	68	11	18	31	JUN	36	-13	8	3
	JUL	15	-24	-27	-2	AUG	-1	-1	-15	-20	SEP	-4	4	-2	-38
	OCT	-61	-5	50	-69	NOV	0	-5	9	-31	DEC	16	50	19	65
1966	JAN	32	-28	17	-46	FEB	18	88	27	27	MAR	76	53	52	55
	APR	27	11	59	97	MAY	14	72	44	-11	JUN	17	78	25	-11
	JUL	-6	25	-32	0	AUG	-21	26	-9	-5	SEP	-31	-52	-22	-53
	OCT	-94	-16	-35	-41	NOV	72	48	-9	21	DEC	129	152	32	-36
1967	JAN	-5	6	-6	76	FEB	42	-9	29	7	MAR	14	64	56	87
	APR	111	52	60	16	MAY	100	96	20	-5	JUN	16	21	35	37
	JUL	0	19	-19	5	AUG	1	-31	-32	-18	SEP	-25	-59	6	-6
	OCT	-9	-10	10	-17	NOV	2	22	23	-2	DEC	50	39	103	8
1968	JAN	7	44	16	134	FEB	165	-8	-4	5	MAR	-6	25	128	64
	APR	100	7	50	-21	MAY	25	62	67	120	JUN	29	17	-24	146
	JUL	6	8	17	-2	AUG	35	-26	36	-61	SEP	-1	-5	-26	-50
	OCT	-36	-23	-28	-27	NOV	-13	-27	29	90	DEC	49	-15	-38	142
1969	JAN	-12	-2	95	144	FEB	98	17	-1	4	MAR	-11	-3	37	83
	APR	159	53	177	37	MAY	33	112	175	38	JUN	51	58	39	31
	JUL	118	30	58	25	AUG	-34	-12	-8	-49	SEP	-21	-74	-13	-11
	OCT	-41	-5	-62	-54	NOV	20	-64	84	-11	DEC	38	45	-2	-36

TABLE B-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1970	JAN	-65	11	12	26	FEB	88	31	-4	43	MAR	72	13	62	49
	APR	108	59	61	61	MAY	14	61	75	32	JUN	26	31	34	26
	JUL	-12	56	37	16	AUG	-33	-39	-28	-24	SEP	-27	5	40	-28
	OCT	-36	42	-31	12	NOV	19	-25	-61	79	DEC	-9	75	7	15
1971	JAN	2	16	-36	-16	FEB	31	41	113	120	MAR	88	24	66	34
	APR	24	39	16	13	MAY	36	14	32	60	JUN	46	28	2	16
	JUL	-19	-33	-22	19	AUG	-33	0	-18	37	SEP	25	-15	-12	8
	OCT	111	-8	19	-45	NOV	-96	-7	-2	-3	DEC	12	15	42	116
1972	JAN	-28	-6	13	-11	FEB	22	18	36	47	MAR	94	81	95	49
	APR	13	99	171	56	MAY	68	64	40	26	JUN	20	16	167	10
	JUL	11	37	47	-28	AUG	-9	8	22	-9	SEP	-16	-22	26	79
	OCT	-21	-54	-26	29	NOV	73	96	8	19	DEC	90	59	63	34
1973	JAN	69	-26	33	77	FEB	62	6	4	-9	MAR	78	191	169	90
	APR	101	10	32	83	MAY	34	43	46	69	JUN	133	63	24	44
	JUL	45	-28	-57	73	AUG	-36	11	-18	-2	SEP	-35	-67	-65	24
	OCT	9	-30	-76	21	NOV	-56	21	-3	30	DEC	29	39	-28	107
1974	JAN	14	-27	128	102	FEB	84	13	30	81	MAR	200	74	33	65
	APR	161	37	30	12	MAY	61	94	86	31	JUN	28	28	53	15
	JUL	15	-6	-42	-11	AUG	-14	-1	-11	-48	SEP	-32	-48	-22	19
	OCT	-114	23	-65	-11	NOV	58	-53	74	55	DEC	40	6	56	46
1975	JAN	50	42	19	116	FEB	-10	24	57	186	MAR	72	34	85	58
	APR	23	15	61	51	MAY	54	20	35	52	JUN	72	44	46	32
	JUL	-10	-18	-1	-28	AUG	14	0	9	173	SEP	-39	-29	22	-17
	OCT	-12	-48	49	-61	NOV	37	-27	8	-20	DEC	80	49	30	49
1976	JAN	-4	72	41	39	FEB	-40	58	278	191	MAR	234	76	35	65
	APR	38	15	44	83	MAY	51	45	38	34	JUN	-1	8	26	89
	JUL	-28	58	6	14	AUG	-22	-1	-6	-68	SEP	-36	8	-4	7
	OCT	17	-99	-25	14	NOV	-45	-42	-50	-33	DEC	49	-10	8	-38

TABLE B-5

LAKE ERIE MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	-9	61	86	48	25	12	5	-4	-39	-32	-8	-16
1901	10	-27	60	51	36	24	-7	-21	-41	-41	-21	0
1902	-4	-18	67	42	45	48	73	-35	11	-17	-16	8
1903	15	61	108	90	12	23	11	-5	-28	-33	-22	-42
1904	32	21	153	84	48	18	11	-18	-21	-34	-33	-24
1905	30	-8	57	59	65	55	2	-18	-18	-48	-4	-2
1906	37	8	32	54	17	23	1	-4	-25	-5	-3	53
1907	92	1	68	19	46	48	9	-31	4	-6	-18	34
1908	42	62	106	54	59	0	-2	-22	-37	-36	-67	-7
1909	15	91	52	62	96	42	-9	-15	-42	-46	9	-6
1910	0	37	80	66	40	4	8	-12	-18	-10	-11	-16
1911	34	29	33	71	21	12	-23	-3	2	-12	-16	51
1912	26	13	81	105	42	20	1	9	-3	-14	-38	-7
1913	123	36	182	87	23	11	2	-27	-34	-31	32	-8
1914	7	-1	59	74	94	7	-1	-9	-28	-35	-26	-24
1915	28	65	7	14	36	20	37	26	12	-30	-26	25
1916	85	25	90	74	72	54	-3	-41	-38	-37	-20	2
1917	32	1	68	82	69	75	38	-24	-16	6	7	-5
1918	-30	45	76	-28	32	4	-6	-20	-21	-7	-37	48
1919	-11	-3	92	53	90	6	-14	-14	-29	-7	-32	-39
1920	10	-26	54	95	31	33	10	-7	-30	-25	8	10
1921	25	33	89	88	23	14	-16	-18	-27	-20	20	8
1922	-13	24	79	101	56	14	-2	-21	-17	-45	-42	4
1923	19	-4	75	46	61	12	-4	-38	0	-51	-18	81
1924	24	27	59	84	54	60	4	-25	-3	-28	-36	13
1925	-11	55	76	30	7	14	-1	-6	6	-32	22	-24
1926	24	15	55	109	16	36	6	15	65	22	27	1
1927	12	45	96	39	69	23	20	-27	-18	-25	52	58
1928	28	35	36	54	22	74	22	-17	-45	-18	8	8
1929	37	32	92	121	49	3	1	-41	-27	-24	2	4
1930	121	50	62	47	6	23	-21	-30	-29	-36	-28	-1
1931	13	19	44	49	32	26	6	-21	-11	-27	-5	36
1932	93	37	26	49	57	12	9	-12	-35	-19	6	27
1933	40	10	76	72	71	-1	-15	-23	-20	-34	-26	18

TABLE B-5 (CONTINUED)

LAKE ERIE MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	5	-8	28	64	10	9	-20	-16	-1	-55	-12	-10
1935	15	-15	61	17	42	22	7	-19	-37	-21	-19	12
1936	-45	11	110	48	17	1	-20	-28	-14	-20	-30	6
1937	117	61	12	124	35	87	27	6	-46	-21	-24	20
1938	10	101	78	56	35	26	16	-15	-15	-37	-21	-15
1939	24	36	71	86	16	28	4	-24	-37	-29	-29	-22
1940	-7	27	48	104	58	46	6	7	-18	-24	-20	58
1941	18	9	30	44	23	19	-2	-25	-42	-16	-9	2
1942	-7	57	104	70	55	24	17	-14	-21	-3	18	42
1943	10	47	59	67	136	40	29	-24	-30	-22	-16	-21
1944	-9	30	58	113	58	25	-29	-19	-9	-42	-15	-7
1945	-11	37	116	60	80	64	7	-27	27	9	-3	-6
1946	14	5	71	3	54	67	-6	-38	-26	-13	-19	2
1947	43	-5	59	142	98	71	0	8	-41	-8	-40	30
1948	-18	41	107	64	67	32	-9	-14	-38	-23	7	4
1949	56	63	50	41	41	20	-2	-28	-26	-18	-12	33
1950	137	67	105	93	26	26	11	-14	-15	-3	24	43
1951	62	82	88	74	45	27	-7	-30	-38	-23	9	24
1952	97	46	68	63	39	2	-21	-16	-36	-73	-8	17
1953	34	14	55	34	61	15	-13	-19	-49	-41	-11	-15
1954	17	62	76	106	8	10	-19	-16	-29	60	-1	19
1955	28	45	90	63	12	0	-10	-6	-35	-5	-3	5
1956	-36	47	103	79	106	28	15	24	-42	-23	-40	30
1957	22	51	35	127	46	51	26	-27	-12	-27	-6	62
1958	8	12	36	50	22	40	33	2	-1	-32	-10	-9
1959	63	82	78	86	55	7	-6	-6	-38	-0	3	57
1960	41	50	35	71	56	45	4	-4	-37	-54	-19	-20
1961	-6	47	69	132	38	36	17	4	-22	-46	-15	-13
1962	16	28	68	28	16	20	-15	-14	-27	-22	3	-2
1963	-9	0	119	51	21	4	-6	-18	-36	-32	-20	-20
1964	11	16	81	84	24	18	-7	1	-39	-41	-26	13
1965	34	58	70	56	32	8	-10	-9	-10	-21	-7	38
1966	-6	40	59	48	30	27	-3	-2	-40	-46	33	69
1967	18	17	55	60	53	27	2	-20	-21	-6	11	50

TABLE B-5 (CONTINUED)

LAKE ERIE MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	50	40	53	34	68	42	7	-4	-20	-28	20	34
1969	56	30	26	106	90	45	58	-26	-30	-40	7	11
1970	-4	40	49	72	46	29	24	-31	-2	-3	3	22
1971	-8	76	53	23	36	23	-14	-4	2	19	-27	46
1972	-8	31	80	85	50	53	17	3	17	-18	49	62
1973	38	16	132	56	48	66	8	-11	-36	-19	-2	37
1974	54	52	93	60	68	31	-11	-18	-21	-42	34	37
1975	57	64	62	38	40	46	-14	49	-16	-18	-0	52
1976	37	122	102	45	42	30	12	-24	-6	-23	-42	2

TABLE B-6

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1900	JAN	53	36	34	-7	FEB	38	70	58	67	MAR	36	38	2	76
	APR	132	123	109	59	MAY	56	21	54	6	JUN	53	39	23	6
	JUL	21	57	27	9	AUG	19	37	-14	-1	SEP	15	-36	-2	18
	OCT	0	-2	-14	8	NOV	8	-35	50	103	DEC	41	60	15	-25
1901	JAN	2	56	7	30	FEB	34	-26	-12	21	MAR	0	49	95	170
	APR	182	107	192	133	MAY	49	48	47	73	JUN	90	58	70	38
	JUL	34	24	16	30	AUG	32	1	13	27	SEP	7	18	-8	21
	OCT	-25	-15	16	-12	NOV	-21	2	30	-8	DEC	27	77	109	32
1902	JAN	-2	23	47	43	FEB	-8	14	3	23	MAR	163	139	135	75
	APR	89	80	37	51	MAY	48	48	29	54	JUN	45	43	54	79
	JUL	134	52	68	53	AUG	53	8	8	24	SEP	-11	8	8	2
	OCT	28	-23	-4	-3	NOV	13	26	8	12	DEC	-9	19	3	17
1903	JAN	27	-20	43	-5	FEB	100	61	-5	80	MAR	96	183	152	95
	APR	176	95	22	74	MAY	6	40	7	26	JUN	-9	68	35	71
	JUL	45	29	25	74	AUG	29	14	-18	42	SEP	25	23	-42	-9
	OCT	18	50	14	-4	NOV	-18	-3	2	11	DEC	-12	-17	-9	0
1904	JAN	-24	1	14	52	FEB	56	43	60	72	MAR	39	74	90	221
	APR	162	128	118	91	MAY	103	55	90	80	JUN	90	45	44	47
	JUL	51	51	50	19	AUG	19	19	66	3	SEP	46	-18	-16	15
	OCT	45	9	8	11	NOV	-7	-44	5	-35	DEC	-17	-2	7	-27
1905	JAN	86	-18	8	11	FEB	-22	-26	23	22	MAR	38	18	60	131
	APR	164	99	61	41	MAY	101	51	27	62	JUN	61	78	77	42
	JUL	81	35	34	36	AUG	37	83	4	20	SEP	19	25	-30	-27
	OCT	34	30	-21	26	NOV	-17	3	25	15	DEC	28	27	9	54
1906	JAN	80	42	49	59	FEB	32	27	9	42	MAR	26	28	20	61
	APR	78	105	44	44	MAY	38	50	38	19	JUN	68	39	51	65
	JUL	39	39	37	21	AUG	21	3	-16	-18	SEP	-18	13	-4	-19
	OCT	24	6	49	38	NOV	27	6	37	15	DEC	24	18	18	16

TABLE B-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1907	JAN	147	61	42	37	FEB	-18	22	8	30	MAR	9	29	67	137
	APR	63	43	62	61	MAY	89	42	41	55	JUN	55	24	35	34
	JUL	19	35	33	34	AUG	20	23	-8	5	SEP	-1	-2	13	34
	OCT	30	12	-16	33	NOV	60	-4	55	27	DEC	0	30	44	107
1908	JAN	53	50	22	24	FEB	3	51	80	73	MAR	43	65	114	141
	APR	116	76	88	71	MAY	136	124	108	43	JUN	45	50	64	51
	JUL	14	49	62	30	AUG	42	27	-23	-22	SEP	-28	-10	1	10
	OCT	-15	-18	13	22	NOV	-30	3	-25	19	DEC	-8	-34	-3	-6
1909	JAN	19	34	8	58	FEB	25	45	33	97	MAR	63	12	34	54
	APR	88	124	113	128	MAY	138	136	106	43	JUN	46	27	12	24
	JUL	24	43	42	48	AUG	-3	26	-5	26	SEP	-39	-7	24	-15
	OCT	-21	-3	-8	6	NOV	3	2	7	32	DEC	8	2	-1	24
1910	JAN	14	11	19	48	FEB	32	32	18	36	MAR	141	72	78	47
	APR	94	32	74	103	MAY	116	36	52	51	JUN	39	39	38	5
	JUL	23	22	24	22	AUG	22	9	40	10	SEP	33	-9	-10	17
	OCT	32	-3	-6	-10	NOV	-5	22	-7	22	DEC	13	0	-7	-6
1911	JAN	23	30	5	42	FEB	27	47	45	41	MAR	0	58	45	64
	APR	77	76	92	58	MAY	68	36	34	34	JUN	51	50	37	37
	JUL	23	23	22	-11	AUG	8	22	-16	0	SEP	18	16	-2	11
	OCT	12	9	3	7	NOV	1	12	1	26	DEC	6	57	69	25
1912	JAN	36	10	20	31	FEB	15	0	45	44	MAR	8	24	73	85
	APR	150	150	156	115	MAY	58	72	139	129	JUN	87	60	55	24
	JUL	10	36	36	18	AUG	-2	28	25	11	SEP	6	24	36	21
	OCT	10	19	22	4	NOV	34	44	22	44	DEC	38	32	39	42
1913	JAN	77	93	151	119	FEB	12	-50	1	41	MAR	7	78	112	246
	APR	133	74	56	64	MAY	55	39	54	56	JUN	60	26	10	38
	JUL	28	30	-3	-6	AUG	26	0	11	9	SEP	-20	-22	5	11
	OCT	-10	5	7	19	NOV	18	25	32	16	DEC	12	-5	16	18

TABLE B-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1914	JAN	-2	-12	28	47	FEB	54	29	3	-25	MAR	40	30	51	160
	APR	165	77	134	67	MAY	94	73	35	36	JUN	36	37	23	18
	JUL	25	24	6	-7	AUG	-6	36	21	20	SEP	19	7	23	-32
	OCT	1	2	-2	-23	NOV	-8	10	-23	13	DEC	7	-28	-19	14
1915	JAN	14	40	53	54	FEB	59	37	62	92	MAR	54	23	27	39
	APR	29	62	44	42	MAY	32	32	29	31	JUN	28	25	25	29
	JUL	27	28	23	23	AUG	114	40	58	10	SEP	-5	40	9	13
	OCT	4	9	9	-9	NOV	-42	6	-1	16	DEC	-11	20	-1	56
1916	JAN	68	66	24	76	FEB	24	34	7	38	MAR	38	23	22	116
	APR	197	88	135	93	MAY	72	88	138	76	JUN	158	77	114	68
	JUL	55	26	23	-27	AUG	20	4	-14	-31	SEP	12	-22	-7	-20
	OCT	-20	0	16	-15	NOV	1	17	-3	-10	DEC	-4	18	11	-8
1917	JAN	26	9	-2	-3	FEB	36	13	44	29	MAR	39	78	100	135
	APR	168	116	70	53	MAY	47	6	49	35	JUN	86	88	75	54
	JUL	61	75	48	30	AUG	1	1	-10	17	SEP	17	-31	-1	12
	OCT	12	-6	18	105	NOV	10	-2	26	-5	DEC	29	12	19	-2
1918	JAN	-5	6	1	-12	FEB	-2	58	83	100	MAR	70	101	117	98
	APR	105	94	77	68	MAY	27	74	40	36	JUN	53	33	35	34
	JUL	49	34	19	2	AUG	12	41	-20	-8	SEP	53	18	16	0
	OCT	16	31	19	64	NOV	32	0	44	-8	DEC	28	37	51	25
1919	JAN	56	9	35	17	FEB	19	37	19	31	MAR	36	70	97	46
	APR	82	88	101	97	MAY	96	98	160	119	JUN	73	44	12	32
	JUL	34	34	19	18	AUG	-19	13	42	-4	SEP	-6	-9	8	-7
	OCT	5	-8	6	20	NOV	32	-2	-3	-4	DEC	16	-23	19	0
1920	JAN	-14	3	-4	14	FEB	3	38	23	-10	MAR	2	113	114	112
	APR	81	36	48	69	MAY	45	13	26	8	JUN	23	22	38	22
	JUL	40	40	39	26	AUG	-5	24	8	6	SEP	6	20	-22	7
	OCT	22	8	7	16	NOV	16	-32	36	40	DEC	67	45	68	36

TABLE B-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1921	JAN	63	17	12	0	FEB	31	32	30	32	MAR	86	105	105	88
	APR	88	39	100	36	MAY	80	50	20	32	JUN	21	33	21	0
	JUL	18	17	1	-1	AUG	-29	18	-14	-18	SEP	13	-22	-25	-8
	OCT	5	9	8	-31	NOV	8	21	40	-1	DEC	31	-15	45	-11
1922	JAN	28	17	-12	-16	FEB	72	30	23	65	MAR	75	88	70	57
	APR	132	163	164	60	MAY	69	22	67	18	JUN	37	82	69	60
	JUL	97	33	17	0	AUG	43	-1	-18	-5	SEP	5	21	8	-25
	OCT	0	18	-15	-29	NOV	-3	15	-25	-8	DEC	-22	-8	10	-7
1923	JAN	52	32	10	0	FEB	31	27	5	11	MAR	89	70	83	51
	APR	110	96	38	56	MAY	39	48	98	38	JUN	82	72	24	37
	JUL	28	23	-6	-10	AUG	22	2	23	-9	SEP	18	1	2	1
	OCT	-2	-19	-3	27	NOV	12	-4	8	40	DEC	73	38	9	25
1924	JAN	29	84	16	29	FEB	42	25	44	-18	MAR	44	48	34	82
	APR	101	72	120	72	MAY	83	126	88	54	JUN	44	27	39	36
	JUL	22	37	23	39	AUG	23	40	-6	10	SEP	-11	4	-12	84
	OCT	19	3	-14	-17	NOV	-16	18	-21	-25	DEC	15	17	-25	-28
1925	JAN	60	-30	13	0	FEB	41	77	64	117	MAR	111	92	129	82
	APR	70	35	103	18	MAY	78	15	45	15	JUN	47	30	12	27
	JUL	31	12	43	14	AUG	42	24	-23	-38	SEP	51	68	3	-13
	OCT	17	-16	12	30	NOV	30	74	76	18	DEC	66	40	37	-18
1926	JAN	-17	68	15	8	FEB	33	36	24	21	MAR	50	36	60	90
	APR	135	133	106	115	MAY	90	59	56	17	JUN	40	55	42	40
	JUL	10	43	27	-1	AUG	58	26	23	23	SEP	38	24	36	45
	OCT	58	-20	22	74	NOV	41	44	116	53	DEC	40	37	21	12
1927	JAN	23	28	31	45	FEB	12	32	34	79	MAR	50	89	137	104
	APR	57	22	48	31	MAY	44	54	73	70	JUN	41	27	40	40
	JUL	9	41	42	56	AUG	-7	-7	-25	22	SEP	8	3	-18	1
	OCT	48	17	-14	2	NOV	16	17	111	110	DEC	101	78	85	22

TABLE B-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1928	JAN	134	61	34	32	FEB	29	58	58	51	MAR	2	58	66	104
	APR	105	114	98	72	MAY	75	56	34	33	JUN	63	29	53	81
	JUL	42	60	26	40	AUG	41	32	12	14	SEP	-19	7	-37	19
	OCT	8	5	66	3	NOV	18	17	74	10	DEC	47	39	43	35
1929	JAN	-8	30	135	51	FEB	42	24	9	32	MAR	54	98	134	106
	APR	194	107	114	110	MAY	121	101	85	57	JUN	25	26	41	39
	JUL	39	26	-6	58	AUG	-20	26	-19	-4	SEP	-5	22	-19	-7
	OCT	24	-8	-12	16	NOV	0	16	24	14	DEC	-26	16	27	18
1930	JAN	52	144	52	27	FEB	67	36	53	82	MAR	100	137	81	50
	APR	91	62	58	56	MAY	59	39	74	59	JUN	10	59	42	61
	JUL	32	51	19	-13	AUG	1	-28	-12	14	SEP	-17	11	-8	2
	OCT	-20	-8	-18	-29	NOV	-15	2	-3	6	DEC	14	-5	-19	-11
1931	JAN	27	9	8	-15	FEB	17	27	9	14	MAR	34	36	40	86
	APR	71	59	55	31	MAY	51	47	81	68	JUN	69	37	24	9
	JUL	38	22	16	19	AUG	-12	-1	0	-24	SEP	29	-3	11	-7
	OCT	-4	-5	8	-10	NOV	5	9	40	-13	DEC	15	20	18	38
1932	JAN	77	51	108	89	FEB	36	62	90	26	MAR	42	23	43	69
	APR	143	139	83	69	MAY	65	75	33	46	JUN	29	30	12	29
	JUL	45	46	-4	28	AUG	45	0	13	12	SEP	-21	-6	-8	-12
	OCT	34	-9	8	-1	NOV	37	60	36	5	DEC	32	-5	18	66
1933	JAN	44	14	43	28	FEB	9	16	25	15	MAR	17	60	68	49
	APR	126	135	116	44	MAY	77	58	39	24	JUN	41	12	11	14
	JUL	13	0	-1	-2	AUG	-18	12	15	14	SEP	-3	-29	-9	11
	OCT	-23	-11	-25	-24	NOV	-6	-19	3	31	DEC	23	22	7	8
1934	JAN	96	10	44	26	FEB	38	16	17	-32	MAR	109	38	42	76
	APR	110	106	111	48	MAY	62	14	43	-4	JUN	8	40	58	28
	JUL	10	23	-10	4	AUG	-16	-3	-5	-54	SEP	8	54	24	22
	OCT	-27	-27	4	-31	NOV	18	-19	52	23	DEC	14	-31	33	21

TABLE B-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1935	JAN	24	103	55	-7	FEB	24	26	50	26	MAR	40	70	74	70
	APR	41	44	45	46	MAY	80	60	11	58	JUN	42	27	110	35
	JUL	36	67	18	0	AUG	-3	10	-8	-40	SEP	8	7	-10	-10
	OCT	-11	-8	-10	4	NOV	36	5	-1	-4	DEC	14	35	31	-27
1936	JAN	24	38	5	3	FEB	20	26	7	44	MAR	55	161	238	200
	APR	152	94	114	69	MAY	65	52	18	26	JUN	40	22	24	6
	JUL	8	22	-10	6	AUG	-26	2	14	13	SEP	-1	29	-1	16
	OCT	28	-22	25	6	NOV	58	22	-28	4	DEC	11	9	24	41
1937	JAN	70	104	116	80	FEB	48	36	45	67	MAR	48	21	30	15
	APR	79	67	124	106	MAY	76	45	96	52	JUN	35	38	61	28
	JUL	12	10	12	10	AUG	13	-28	-18	14	SEP	-18	-22	-32	1
	OCT	-0	-34	42	47	NOV	-3	81	3	17	DEC	32	-12	53	-14
1938	JAN	14	42	25	32	FEB	106	102	75	46	MAR	72	26	113	118
	APR	66	65	86	54	MAY	39	35	35	37	JUN	19	36	19	6
	JUL	3	33	33	32	AUG	31	11	13	-34	SEP	-18	29	41	31
	OCT	-15	14	-5	-22	NOV	-4	5	12	-13	DEC	24	3	-22	16
1939	JAN	22	27	5	31	FEB	22	24	53	73	MAR	75	59	36	115
	APR	115	108	138	95	MAY	61	38	38	37	JUN	19	33	19	33
	JUL	36	20	-24	35	AUG	0	48	-1	-15	SEP	-19	-20	-36	12
	OCT	12	6	-25	-8	NOV	5	-44	-10	-12	DEC	15	-2	11	-16
1940	JAN	26	18	3	-16	FEB	10	38	8	19	MAR	51	19	17	18
	APR	201	137	146	82	MAY	83	51	66	96	JUN	49	48	35	58
	JUL	33	19	52	37	AUG	-8	8	-29	2	SEP	-5	-6	-3	29
	OCT	10	-5	-22	-21	NOV	34	6	22	20	DEC	35	9	52	101
1941	JAN	53	28	10	50	FEB	25	34	31	3	MAR	32	54	4	51
	APR	107	80	83	34	MAY	30	11	24	24	JUN	22	4	18	21
	JUL	21	19	1	46	AUG	1	-17	-3	-4	SEP	28	11	-20	-7
	OCT	9	8	27	-7	NOV	44	1	8	3	DEC	23	0	21	53

TABLE B-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1942	JAN	28	7	21	16	FEB	74	15	21	6	MAR	57	141	191	80
	APR	118	98	67	51	MAY	48	50	78	79	JUN	64	34	16	19
	JUL	20	19	32	31	AUG	15	13	-5	-20	SEP	11	24	-6	9
	OCT	-4	-2	3	21	NOV	25	15	26	47	DEC	-2	20	10	116
1943	JAN	61	40	29	56	FEB	32	76	20	88	MAR	53	50	143	116
	APR	89	63	91	107	MAY	133	164	174	161	JUN	97	68	50	36
	JUL	39	19	34	18	AUG	16	48	19	-12	SEP	28	-16	-18	-4
	OCT	-20	-4	20	59	NOV	40	18	9	25	DEC	8	-2	-19	-14
1944	JAN	23	-20	23	22	FEB	2	40	21	47	MAR	4	35	68	99
	APR	27	162	78	94	MAY	80	81	53	34	JUN	32	51	64	64
	JUL	6	24	27	27	AUG	-22	24	-9	-11	SEP	18	4	20	-16
	OCT	-17	-2	-14	-19	NOV	-18	12	-9	21	DEC	-7	69	-10	10
1945	JAN	7	30	36	16	FEB	27	11	29	57	MAR	115	80	163	138
	APR	132	62	58	104	MAY	106	79	137	78	JUN	64	48	63	49
	JUL	33	47	47	29	AUG	14	13	-19	9	SEP	-6	22	57	72
	OCT	111	39	27	39	NOV	27	29	37	56	DEC	62	44	-1	66
1946	JAN	34	75	24	-9	FEB	64	29	50	18	MAR	124	98	63	33
	APR	38	23	20	34	MAY	32	30	91	43	JUN	55	42	36	20
	JUL	22	21	19	-12	AUG	3	18	-1	-16	SEP	-29	18	17	17
	OCT	-29	48	18	51	NOV	34	-1	15	15	DEC	2	12	30	43
1947	JAN	26	54	44	137	FEB	89	10	35	30	MAR	62	41	57	140
	APR	190	131	134	103	MAY	123	77	115	118	JUN	228	123	66	35
	JUL	37	42	74	92	AUG	-2	-3	44	8	SEP	19	2	-13	-26
	OCT	-11	5	-15	-2	NOV	10	24	-6	0	DEC	18	37	0	-11
1948	JAN	61	7	-8	3	FEB	19	20	48	74	MAR	50	27	206	156
	APR	96	112	79	64	MAY	76	77	90	48	JUN	48	48	38	34
	JUL	34	6	16	31	AUG	-15	14	14	-2	SEP	-3	-22	-6	-20
	OCT	-6	16	8	-8	NOV	35	16	46	5	DEC	17	-10	12	-2

TABLE B-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1949	JAN	71	43	62	38	FEB	41	46	105	46	MAR	52	37	57	64
	APR	109	47	93	49	MAY	63	16	46	10	JUN	12	30	29	11
	JUL	12	8	6	3	AUG	-28	3	-48	11	SEP	11	-4	8	-3
	OCT	13	14	-6	-21	NOV	-25	5	18	-9	DEC	2	8	88	56
1950	JAN	101	57	64	99	FEB	17	75	55	20	MAR	28	6	90	148
	APR	216	94	78	67	MAY	36	54	39	23	JUN	40	39	26	42
	JUL	10	28	15	44	AUG	11	-17	12	57	SEP	-22	33	-11	-31
	OCT	3	61	3	-1	NOV	46	-3	43	49	DEC	72	70	24	15
1951	JAN	61	65	46	36	FEB	42	28	120	80	MAR	112	82	86	132
	APR	154	170	111	135	MAY	55	72	39	36	JUN	37	68	41	41
	JUL	76	47	46	13	AUG	-23	24	-15	20	SEP	0	35	1	-17
	OCT	11	-4	-7	2	NOV	14	48	16	30	DEC	51	39	22	49
1952	JAN	58	59	84	52	FEB	85	42	58	12	MAR	61	96	94	66
	APR	177	90	74	76	MAY	27	70	110	78	JUN	35	38	9	39
	JUL	10	24	38	-11	AUG	2	14	-4	-6	SEP	-25	4	35	-10
	OCT	-12	-8	-45	-15	NOV	-18	2	48	8	DEC	14	44	50	2
1953	JAN	21	17	81	13	FEB	31	30	29	28	MAR	47	37	66	173
	APR	57	56	55	42	MAY	108	77	126	63	JUN	48	34	18	20
	JUL	15	-1	28	27	AUG	6	18	-28	21	SEP	3	-17	20	-14
	OCT	-30	-15	0	-7	NOV	-55	25	9	20	DEC	20	35	18	-1
1954	JAN	9	-8	13	50	FEB	13	13	166	122	MAR	111	44	56	104
	APR	101	86	153	122	MAY	121	62	33	36	JUN	48	33	54	40
	JUL	-7	20	-15	13	AUG	7	-26	6	34	SEP	3	6	13	19
	OCT	19	45	48	18	NOV	34	-3	26	79	DEC	-20	40	24	56
1955	JAN	111	19	1	8	FEB	27	-27	51	55	MAR	94	109	126	96
	APR	136	90	109	68	MAY	46	26	22	55	JUN	22	30	17	5
	JUL	20	7	-6	6	AUG	-22	100	-16	1	SEP	-22	-8	-21	6
	OCT	34	50	116	71	NOV	23	41	-10	13	DEC	27	22	-10	-19

TABLE 6-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1956	JAN	20	33	15	15	FEB	17	47	33	18	MAR	122	84	60	41
	APR	147	115	137	114	MAY	136	132	75	73	JUN	70	47	-1	30
	JUL	25	35	29	0	AUG	5	17	1	63	SEP	32	-25	-3	-6
	OCT	7	-10	-10	7	NOV	10	-23	1	-4	DEC	44	24	10	34
1957	JAN	-6	-14	48	86	FEB	32	22	19	74	MAR	39	67	86	36
	APR	72	52	52	77	MAY	-1	54	91	37	JUN	32	23	28	100
	JUL	40	30	3	15	AUG	1	-6	-39	-18	SEP	24	-8	43	-34
	OCT	-46	-17	-11	-15	NOV	5	21	-28	38	DEC	-34	18	81	72
1958	JAN	-16	-9	27	47	FEB	21	-10	3	69	MAR	62	27	56	69
	APR	101	56	75	67	MAY	39	40	44	24	JUN	42	65	-10	45
	JUL	0	34	18	17	AUG	16	1	-16	12	SEP	9	12	71	-6
	OCT	-24	2	19	-7	NOV	13	37	5	2	DEC	9	5	8	26
1959	JAN	-5	14	49	65	FEB	26	74	17	56	MAR	71	35	86	101
	APR	209	124	82	107	MAY	49	53	64	56	JUN	33	17	20	34
	JUL	70	16	16	-3	AUG	-19	16	-13	13	SEP	-5	-36	-28	22
	OCT	71	-29	-18	26	NOV	21	21	18	20	DEC	68	81	41	75
1960	JAN	24	64	30	31	FEB	42	80	67	56	MAR	27	8	30	70
	APR	208	119	181	118	MAY	93	93	86	75	JUN	59	58	41	46
	JUL	5	11	19	9	AUG	3	2	12	-14	SEP	-26	-36	-19	-3
	OCT	-29	-9	-16	9	NOV	-24	12	4	-20	DEC	-10	-31	-16	-3
1961	JAN	8	-3	-17	-12	FEB	-4	3	18	130	MAR	99	60	50	61
	APR	42	105	100	92	MAY	77	59	58	48	JUN	68	44	58	34
	JUL	43	31	11	5	AUG	1	-8	-10	22	SEP	8	-2	-27	-15
	OCT	-6	-18	-30	-15	NOV	-14	13	27	-11	DEC	26	3	23	-24
1962	JAN	1	27	9	24	FEB	2	32	31	39	MAR	9	63	66	86
	APR	110	95	65	58	MAY	58	23	44	26	JUN	16	19	24	9
	JUL	-16	14	9	18	AUG	49	8	-13	13	SEP	-37	9	-3	34
	OCT	43	1	11	-22	NOV	-5	51	3	26	DEC	41	10	-2	-15

TABLE 8-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1963	JAN	4	-7	-18	19	FEB	9	9	-6	15	MAR	30	44	57	146
	APR	135	60	113	63	MAY	62	64	71	37	JUN	21	18	13	10
	JUL	6	9	23	3	AUG	30	41	-7	-4	SEP	-14	-13	-22	-6
	OCT	-12	-12	4	-27	NOV	15	10	28	31	DEC	21	6	4	19
1964	JAN	16	-15	37	48	FEB	40	27	7	-16	MAR	80	91	63	83
	APR	94	74	85	76	MAY	45	56	45	43	JUN	36	26	13	15
	JUL	16	41	4	-11	AUG	-24	8	47	7	SEP	-25	-20	-19	-16
	OCT	-25	-22	-7	-14	NOV	-11	2	-17	10	DEC	3	15	11	33
1965	JAN	30	19	19	5	FEB	35	99	22	52	MAR	70	41	55	30
	APR	44	100	113	68	MAY	68	27	34	25	JUN	15	9	20	49
	JUL	47	13	-4	-15	AUG	26	14	12	-4	SEP	29	8	19	-13
	OCT	4	14	24	-10	NOV	22	34	72	41	DEC	51	52	40	56
1966	JAN	42	13	44	8	FEB	30	65	30	56	MAR	121	76	86	80
	APR	52	41	56	44	MAY	19	36	48	25	JUN	32	45	29	10
	JUL	14	-15	-2	-4	AUG	-9	14	14	-5	SEP	1	-23	24	-17
	OCT	-9	6	-23	-17	NOV	30	32	2	54	DEC	52	81	28	8
1967	JAN	19	24	7	87	FEB	32	15	14	4	MAR	14	33	32	72
	APR	135	70	70	44	MAY	61	60	62	24	JUN	32	33	49	36
	JUL	23	31	9	19	AUG	20	9	-10	-1	SEP	-10	-9	19	43
	OCT	4	-1	78	43	NOV	59	64	61	43	DEC	37	40	67	34
1968	JAN	13	43	16	57	FEB	67	10	-2	20	MAR	3	46	120	119
	APR	114	50	32	29	MAY	29	52	70	56	JUN	39	36	25	85
	JUL	40	11	22	-1	AUG	33	-15	33	-15	SEP	27	44	12	-21
	OCT	6	-6	2	0	NOV	35	20	46	112	DEC	79	18	32	52
1969	JAN	13	24	52	101	FEB	50	19	28	25	MAR	-1	13	65	118
	APR	105	95	150	88	MAY	63	69	116	64	JUN	71	50	46	56
	JUL	21	35	-11	54	AUG	13	-6	-4	-17	SEP	-15	-14	-12	-25
	OCT	-11	-4	6	0	NOV	37	21	25	6	DEC	22	62	12	9

TABLE 8-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1970	JAN	-7	26	14	26	FEB	46	67	18	29	MAR	41	26	62	83
	APR	120	71	107	83	MAY	49	60	65	39	JUN	22	11	38	61
	JUL	25	49	44	27	AUG	0	3	-3	-6	SEP	-5	-3	20	25
	OCT	3	35	15	46	NOV	-14	58	11	69	DEC	52	52	52	24
1971	JAN	16	27	-14	14	FEB	35	75	41	61	MAR	85	73	106	52
	APR	95	126	126	96	MAY	99	78	54	31	JUN	41	28	23	47
	JUL	18	2	17	21	AUG	-8	-6	32	55	SEP	3	27	5	-5
	OCT	-3	6	0	16	NOV	-27	0	6	28	DEC	16	61	33	44
1972	JAN	10	17	48	1	FEB	42	30	37	25	MAR	57	66	91	75
	APR	86	133	168	90	MAY	137	81	67	61	JUN	51	35	106	106
	JUL	76	91	64	25	AUG	54	18	27	12	SEP	8	-1	-18	40
	OCT	13	-10	9	28	NOV	75	69	16	69	DEC	76	108	42	85
1973	JAN	65	20	70	69	FEB	101	51	31	23	MAR	96	120	166	94
	APR	195	83	70	84	MAY	67	63	71	81	JUN	72	38	36	64
	JUL	18	15	-8	30	AUG	13	4	-8	1	SEP	-14	-32	26	7
	OCT	27	4	-6	51	NOV	-17	35	35	45	DEC	42	61	31	102
1974	JAN	40	36	59	92	FEB	52	20	41	55	MAR	106	52	42	62
	APR	138	103	102	68	MAY	56	122	116	59	JUN	30	54	64	38
	JUL	67	26	-5	40	AUG	31	9	3	-7	SEP	-10	15	-17	11
	OCT	-12	29	-28	7	NOV	21	11	62	37	DEC	47	66	37	23
1975	JAN	42	48	15	67	FEB	20	15	40	93	MAR	59	39	139	89
	APR	90	50	103	69	MAY	90	49	27	48	JUN	67	80	40	10
	JUL	-4	-8	26	-1	AUG	-10	10	16	49	SEP	-28	2	30	73
	OCT	10	31	37	0	NOV	28	29	16	19	DEC	29	70	18	40
1976	JAN	12	47	14	51	FEB	6	44	126	119	MAR	171	85	111	155
	APR	114	61	92	115	MAY	105	72	127	81	JUN	46	50	74	106
	JUL	34	64	43	61	AUG	17	48	-10	14	SEP	-13	17	17	21
	OCT	20	42	28	26	NOV	24	-1	-17	27	DEC	26	-2	17	16

TABLE B-7

LAKE ONTARIO MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	29	58	38	106	3[illegible]	30	28	10	-1	-2	32	23
1901	24	4	79	153	54	6[illegible]	26	18	10	-9	0	61
1902	28	8	128	64	45	55	77	23	2	0	15	7
1903	11	59	132	92	20	41	43	17	-1	20	-2	-9
1904	11	58	106	125	82	56	43	27	7	18	-20	-10
1905	22	-1	61	91	60	65	47	36	-3	17	6	30
1906	57	28	34	67	37	56	34	-3	-7	30	21	19
1907	72	10	61	57	57	37	30	10	11	15	35	45
1908	37	52	91	88	103	52	39	6	-7	0	-8	-13
1909	30	50	41	113	106	27	39	11	-9	-7	11	8
1910	23	29	85	76	64	30	23	20	8	3	8	0
1911	25	40	42	76	43	44	14	4	11	8	10	39
1912	24	26	48	143	99	56	25		22	14	36	38
1913	110	1	111	82	51	34	12	1[illegible]	-6	5	23	10
1914	15	15	70	111	59	29	12	1[illegible]	4	-6	-2	-6
1915	40	62	36	44	31	27	25	56	15	3	-5	16
1916	59	26	50	128	94	104	19	-6	-9	-5	1	4
1917	7	30	88	102	34	76	54	2	-1	32	7	15
1918	-3	60	96	86	44	3[illegible]	26	6	22	33	17	35
1919	29	26	62	92	118	[illegible]	26	8	-3	6	5	3
1920	0	14	85	58	2[illegible]	27	36	8	3	13	15	54
1921	23	31	96	66	45	19	9	-11	-10	-2	17	13
1922	4	47	72	130	44	62	37	5	2	-7	-5	-7
1923	24	18	73	75	56	54	9	10	6	1	14	36
1924	40	23	52	91	88	36	30	17	16	-2	-11	-5
1925	11	[illegible]	103	57	38	29	25	1	27	11	49	31
1926	19	28	59	122	56	45	20	32	36	34	64	27
1927	32	39	95	39	60	37	37	-4	-1	13	64	72
1928	65	49	58	97	50	56	42	25	-7	20	30	41
1929	52	27	98	132	91	33	29	-4	-2	5	14	9
1930	69	59	92	67	58	43	22	-6	-3	-19	-2	-5
1931	7	17	49	54	62	35	24	-10	7	-3	10	23
1932	81	54	44	108	55	25	29	18	-12	8	34	28
1933	32	16	49	105	49	20	3	6	-8	-21	2	15

TABLE B-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	44	10	66	94	29	34	7	-20	27	-20	19	9
1935	44	31	64	44	52	53	30	-10	-1	-6	9	13
1936	18	24	164	107	40	23	6	1	11	9	14	21
1937	93	49	28	94	67	40	11	9	-18	14	24	15
1938	28	82	82	68	36	20	25	5	21	-7	0	5
1939	21	43	71	114	43	26	17	8	-16	-4	-15	2
1940	8	19	26	141	74	47	35	-7	4	-10	21	50
1941	35	23	35	76	22	16	22	-6	3	9	14	24
1942	16	29	118	84	64	33	25	1	10	5	28	36
1943	46	54	90	87	158	63	27	17	-2	13	23	-7
1944	12	28	52	90	62	53	21	-4	6	-13	1	16
1945	22	31	124	89	100	56	39	4	36	54	37	43
1946	31	40	80	29	49	38	12	1	6	22	16	22
1947	66	41	75	139	108	113	61	12	-4	-6	7	11
1948	16	40	110	88	73	42	22	3	-13	2	25	4
1949	53	59	53	75	34	20	7	-16	3	0	-2	38
1950	80	42	68	114	38	37	24	16	-8	17	34	45
1951	52	68	103	142	51	47	45	1	5	0	27	40
1952	63	49	79	104	71	30	15	2	1	-20	10	27
1953	28	29	81	53	94	30	17	4	-2	-13	0	18
1954	14	78	79	115	63	44	3	5	10	33	34	25
1955	35	27	106	101	37	18	6	16	-11	67	17	5
1956	21	29	77	128	104	37	22	22	0	-1	-4	28
1957	29	37	57	63	45	46	22	-15	6	-22	9	34
1958	12	21	54	75	37	35	17	3	21	-2	14	12
1959	31	43	73	130	56	26	25	-1	-12	12	20	66
1960	37	61	34	157	87	51	11	1	-21	-11	-7	-15
1961	-6	37	68	85	61	51	22	1	-9	-17	4	7
1962	15	26	56	82	38	17	6	14	1	8	19	8
1963	0	7	69	93	59	16	10	15	-14	-12	21	13
1964	21	15	79	82	47	23	13	10	-20	-17	-4	15
1965	18	52	49	81	39	23	10	12	11	8	42	50
1966	27	45	91	48	32	29	-2	3	-4	-11	30	42
1967	34	16	38	80	52	37	21	4	11	31	57	45

TABLE B-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN NET BASIN SUPPLY (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	32	24	72	56	52	46	18	9	16	0	53	45
1969	48	30	49	110	78	56	25	-4	-16	-2	22	26
1970	15	40	53	95	53	33	36	-2	9	25	31	45
1971	11	53	79	111	66	35	14	18	8	5	2	38
1972	19	34	72	119	86	74	64	28	7	10	57	78
1973	56	52	119	108	70	52	14	2	-3	19	24	59
1974	57	42	66	103	88	46	32	9	0	-1	33	43
1975	43	42	82	78	54	49	3	16	19	20	23	39
1976	31	74	130	96	96	69	50	17	10	29	8	14

TABLE 8-8

WINTER RETARDATION OF THE OUTFLOW FROM LAKE MICHIGAN-HURON (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	39	45	42	2	0	0	0	0	0	0	0	4
1901	28	72	42	82	15	0	0	0	0	0	0	0
1902	49	42	1	0	0	0	0	0	0	0	0	0
1903	36	44	8	0	0	0	0	0	0	0	0	0
1904	38	40	28	0	0	0	0	0	0	0	0	2
1905	73	60	36	0	0	0	0	0	0	0	0	0
1906	0	54	35	2	0	0	0	0	0	0	0	14
1907	38	53	26	0	0	0	0	0	0	0	0	0
1908	54	66	25	0	0	0	0	0	0	0	0	0
1909	14	70	39	0	0	0	0	0	0	0	0	0
1910	48	52	4	0	0	0	0	0	0	0	0	10
1911	52	57	10	2	0	0	0	0	0	0	0	2
1912	38	30	10	0	0	0	0	0	0	0	0	1
1913	1	44	23	0	0	0	0	0	0	0	0	2
1914	38	40	32	2	0	0	0	0	0	0	0	1
1915	96	32	17	0	0	0	0	0	0	0	0	2
1916	6	35	38	1	0	0	0	0	0	0	0	1
1917	30	34	2	0	0	0	0	0	0	0	0	29
1918	67	48	37	56	0	0	0	0	0	0	0	4
1919	6	14	10	8	0	0	0	0	0	0	0	4
1920	81	67	28	6	0	0	0	0	0	0	0	2
1921	1	60	7	5	0	0	0	0	0	0	0	0
1922	35	50	16	1	0	0	0	0	0	0	0	0
1923	40	41	24	5	0	0	0	0	0	0	0	2
1924	18	56	20	8	0	0	0	0	0	0	0	19
1925	35	40	19	0	0	0	0	0	0	0	0	2
1926	53	48	34	6	0	0	0	0	0	0	0	0
1927	56	52	26	2	0	0	0	0	0	0	0	2
1928	30	60	46	1	0	0	0	0	0	0	0	3
1929	28	26	3	0	0	0	0	0	0	0	0	20
1930	34	30	0	0	0	0	0	0	0	0	0	2
1931	33	78	64	2	0	0	0	0	0	0	0	2
1932	2	1	33	0	0	0	0	0	0	0	0	2
1933	0	40	6	0	0	0	0	0	0	0	0	6

TABLE B-8 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE MICHIGAN-HURON (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	56	42	30	2	0	0	0	0	0	0	0	4
1935	34	22	14	4	0	0	0	0	0	0	0	27
1936	43	38	16	1	0	0	0	0	0	0	0	0
1937	0	41	2	0	0	0	0	0	0	0	0	1
1938	34	16	37	0	0	0	0	0	0	0	0	2
1939	14	48	39	1	0	0	0	0	0	0	0	1
1940	58	43	29	0	0	0	0	0	0	0	0	0
1941	36	56	24	6	0	0	0	0	0	0	0	2
1942	37	89	26	0	0	0	0	0	0	0	0	2
1943	44	42	20	0	0	0	0	0	0	0	0	5
1944	63	42	34	0	0	0	0	0	0	0	0	2
1945	42	30	2	2	0	0	0	0	0	0	0	2
1946	33	51	6	1	0	0	0	0	0	0	0	2
1947	38	42	7	0	0	0	0	0	0	0	0	4
1948	17	23	8	0	0	0	0	0	0	0	0	2
1949	0	10	27	0	0	0	0	0	0	0	0	2
1950	8	29	23	0	0	0	0	0	0	0	0	1
1951	30	28	2	0	0	0	0	0	0	0	0	1
1952	4	10	4	0	0	0	0	0	0	0	0	2
1953	0	6	1	4	0	0	0	0	0	0	0	4
1954	39	50	3	0	0	0	0	0	0	0	0	2
1955	10	22	2	0	0	0	0	0	0	0	0	1
1956	55	60	20	1	0	0	0	0	0	0	0	2
1957	42	28	1	0	0	0	0	0	0	0	0	0
1958	45	60	14	17	0	0	0	0	0	0	0	4
1959	54	39	5	4	0	0	0	0	0	0	0	3
1960	15	41	15	1	0	0	0	0	0	0	0	-11
1961	22	10	2	1	0	0	0	0	0	0	0	4
1962	30	47	6	1	0	0	0	0	0	0	0	3
1963	27	39	11	2	0	0	0	0	0	0	0	4
1964	29	34	6	0	0	0	0	0	0	0	0	2
1965	29	27	8	0	0	0	0	0	0	0	0	6
1966	9	18	8	1	0	0	0	0	0	0	0	0
1967	2	21	1	0	0	0	0	0	0	0	0	1

TABLE B-8 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE MICHIGAN-HURON (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	19	17	0	1	0	0	0	0	0	0	0	4
1969	29	12	4	0	0	0	0	0	0	0	0	8
1970	63	41	5	1	0	0	0	0	0	0	0	3
1971	17	26	6	0	0	0	0	0	0	0	0	7
1972	8	14	7	6	0	0	0	0	0	0	0	2
1973	4	16	4	0	0	0	0	0	0	0	0	3
1974	7	7	0	0	0	0	0	0	0	0	0	2
1975	6	9	12	1	0	0	0	0	0	0	0	1
1976	34	27	2	0	0	0	0	0	0	0	0	11

TABLE 8-9

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ST. CLAIR (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	21	29	36	0	0	0	0	0	0	0	0	1
1901	2	8	4	3	0	0	0	0	0	0	0	6
1902	7	0	4	2	0	0	0	0	0	0	0	2
1903	46	40	2	0	0	0	0	0	0	0	0	8
1904	6	5	33	0	0	0	0	0	0	0	0	6
1905	30	6	4	0	0	0	0	0	0	0	0	0
1906	2	14	1	2	0	0	0	0	0	0	0	2
1907	8	21	2	0	0	0	0	0	0	0	0	0
1908	21	9	9	0	0	0	0	0	0	0	0	2
1909	10	22	3	0	0	0	0	0	0	0	0	45
1910	25	27	21	8	0	0	0	0	0	0	0	4
1911	9	2	5	10	0	0	0	0	0	0	0	1
1912	50	55	43	17	0	0	0	0	0	0	0	0
1913	4	10	10	0	0	0	0	0	0	0	0	0
1914	0	11	2	0	0	0	0	0	0	0	0	16
1915	18	10	0	0	0	0	0	0	0	0	0	0
1916	12	16	10	0	0	0	0	0	0	0	0	13
1917	56	40	5	0	0	0	0	0	0	0	0	26
1918	2	10	0	0	0	0	0	0	0	0	0	0
1919	14	0	0	0	0	0	0	0	0	0	0	0
1920	8	16	6	0	0	0	0	0	0	0	0	0
1921	2	3	0	0	0	0	0	0	0	0	0	0
1922	14	6	4	7	0	0	0	0	0	0	0	2
1923	17	20	9	0	0	0	0	0	0	0	0	3
1924	8	8	0	3	0	0	0	0	0	0	0	2
1925	2	4	8	2	0	0	0	0	0	0	0	0
1926	6	5	4	0	0	0	0	0	0	0	0	4
1927	12	0	2	0	0	0	0	0	0	0	0	0
1928	2	4	2	0	0	0	0	0	0	0	0	0
1929	28	55	2	0	0	0	0	0	0	0	0	4
1930	12	4	0	0	0	0	0	0	0	0	0	0
1931	10	3	3	0	0	0	0	0	0	0	0	0
1932	5	1	2	2	0	0	0	0	0	0	0	26
1933	11	10	6	8	0	0	0	0	0	0	0	20

TABLE B-9 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ST. CLAIR (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	10	18	0	8	0	0	0	0	0	0	0	8
1935	17	0	8	3	0	0	0	0	0	0	0	16
1936	0	18	13	2	0	0	0	0	0	0	0	5
1937	1	10	0	0	0	0	0	0	0	0	0	26
1938	14	9	0	0	0	0	0	0	0	0	0	1
1939	15	0	0	0	0	0	0	0	0	0	0	0
1940	16	0	0	4	0	0	0	0	0	0	0	0
1941	2	1	2	0	0	0	0	0	0	0	0	0
1942	12	4	0	0	0	0	0	0	0	0	0	6
1943	2	2	2	0	0	0	0	0	0	0	0	4
1944	0	0	1	0	0	0	0	0	0	0	0	0
1945	17	10	4	0	0	0	0	0	0	0	0	18
1946	2	0	0	0	0	0	0	0	0	0	0	0
1947	0	8	2	2	0	0	0	0	0	0	0	2
1948	6	10	3	0	0	0	0	0	0	0	0	2
1949	2	0	0	0	0	0	0	0	0	0	0	2
1950	0	2	2	0	0	0	0	0	0	0	0	2
1951	9	8	0	0	0	0	0	0	0	0	0	12
1952	12	0	0	0	0	0	0	0	0	0	0	0
1953	2	1	0	0	0	0	0	0	0	0	0	0
1954	0	1	0	0	0	0	0	0	0	0	0	1
1955	0	2	0	0	0	0	0	0	0	0	0	2
1956	0	0	0	0	0	0	0	0	0	0	0	1
1957	1	2	2	1	0	0	0	0	0	0	0	4
1958	0	2	1	0	0	0	0	0	0	0	0	10
1959	15	4	3	6	0	0	0	0	0	0	0	3
1960	0	0	3	0	0	0	0	0	0	0	0	24
1961	15	7	4	0	0	0	0	0	0	0	0	3
1962	27	0	3	0	0	0	0	0	0	0	0	12
1963	16	24	11	0	0	0	0	0	0	0	0	9
1964	1	6	0	0	0	0	0	0	0	0	0	4
1965	0	0	4	0	0	0	0	0	0	0	0	0
1966	1	0	0	0	0	0	0	0	0	0	0	0
1967	12	3	3	0	0	0	0	0	0	0	0	3

TABLE B-9 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ST. CLAIR (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	12	7	0	0	0	0	0	0	0	0	0	3
1969	28	0	0	0	0	0	0	0	0	0	0	0
1970	11	7	6	0	0	0	0	0	0	0	0	0
1971	20	18	0	0	0	0	0	0	0	0	0	4
1972	16	21	3	0	0	0	0	0	0	0	0	0
1973	3	11	0	0	0	0	0	0	0	0	0	4
1974	20	8	0	0	0	0	0	0	0	0	0	0
1975	9	7	0	0	0	0	0	0	0	0	0	5
1976	44	16	0	0	0	0	0	0	0	0	0	21

TABLE B-10

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ONTARIO (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	6	7	6	0	0	0	0	0	0	0	0	0
1901	5	3	5	0	0	0	0	0	0	0	0	0
1902	6	21	4	0	0	0	0	0	0	0	0	0
1903	4	5	3	0	0	0	0	0	0	0	0	2
1904	12	11	7	0	0	0	0	0	0	0	0	8
1905	18	0	4	0	0	0	0	0	0	0	0	0
1906	0	6	3	0	0	0	0	0	0	0	0	1
1907	18	8	4	0	0	0	0	0	0	0	0	0
1908	18	18	7	0	0	0	0	0	0	0	0	0
1909	6	14	3	0	0	0	0	0	0	0	0	1
1910	8	13	2	0	0	0	0	0	0	0	0	0
1911	7	10	4	0	0	0	0	0	0	0	0	0
1912	12	18	11	0	0	0	0	0	0	0	0	0
1913	2	7	3	0	0	0	0	0	0	0	0	0
1914	4	13	8	0	0	0	0	0	0	0	0	0
1915	1	12	0	0	0	0	0	0	0	0	0	1
1916	2	8	11	0	0	0	0	0	0	0	0	1
1917	4	0	3	0	0	0	0	0	0	0	0	2
1918	8	10	4	0	0	0	0	0	0	0	0	0
1919	0	1	0	0	0	0	0	0	0	0	0	0
1920	10	9	6	0	0	0	0	0	0	0	0	0
1921	2	4	0	0	0	0	0	0	0	0	0	0
1922	3	2	3	0	0	0	0	0	0	0	0	2
1923	5	6	11	0	0	0	0	0	0	0	0	0
1924	3	8	3	0	0	0	0	0	0	0	0	0
1925	16	14	4	0	0	0	0	0	0	0	0	0
1926	5	14	6	0	0	0	0	0	0	0	0	0
1927	10	17	5	0	0	0	0	0	0	0	0	0
1928	4	6	3	0	0	0	0	0	0	0	0	0
1929	4	5	2	0	0	0	0	0	0	0	0	6
1930	3	6	1	0	0	0	0	0	0	0	0	0
1931	3	5	3	0	0	0	0	0	0	0	0	1
1932	2	1	2	0	0	0	0	0	0	0	0	0
1933	1	3	2	0	0	0	0	0	0	0	0	4

TABLE B-10 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ONTARIO (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	16	10	2	0	0	0	0	0	0	0	0	0
1935	7	5	2	0	0	0	0	0	0	0	0	0
1936	5	12	4	0	0	0	0	0	0	0	0	0
1937	1	2	2	0	0	0	0	0	0	0	0	0
1938	8	8	11	0	0	0	0	0	0	0	0	0
1939	4	17	12	0	0	0	0	0	0	0	0	0
1940	4	4	4	0	0	0	0	0	0	0	0	1
1941	2	12	10	0	0	0	0	0	0	0	0	0
1942	2	5	2	0	0	0	0	0	0	0	0	3
1943	17	9	4	0	0	0	0	0	0	0	0	0
1944	2	4	2	0	0	0	0	0	0	0	0	0
1945	22	8	1	0	0	0	0	0	0	0	0	0
1946	1	16	6	0	0	0	0	0	0	0	0	0
1947	5	4	4	0	0	0	0	0	0	0	0	0
1948	18	16	8	0	0	0	0	0	0	0	0	0
1949	2	3	0	0	0	0	0	0	0	0	0	0
1950	3	6	3	0	0	0	0	0	0	0	0	0
1951	1	15	0	0	0	0	0	0	0	0	0	0
1952	2	4	2	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0
1954	6	4	0	0	0	0	0	0	0	0	0	0
1955	2	12	5	0	0	0	0	0	0	0	0	0
1956	3	11	11	0	0	0	0	0	0	0	0	0
1957	6	9	4	0	0	0	0	0	0	0	0	0
1958	0	12	2	0	0	0	0	0	0	0	0	0
1959	14	14	11	0	0	0	0	0	0	0	0	0
1960	2	14	14	0	0	0	0	0	0	0	0	0
1961	9	9	7	0	0	0	0	0	0	0	0	0
1962	6	18	7	0	0	0	0	0	0	0	0	0
1963	11	16	10	0	0	0	0	0	0	0	0	0
1964	7	11	6	0	0	0	0	0	0	0	0	0
1965	5	13	9	0	0	0	0	0	0	0	0	0
1966	6	17	9	0	0	0	0	0	0	0	0	0
1967	1	19	10	0	0	0	0	0	0	0	0	0

TABLE B-10 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ONTARIO (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	6	20	7	0	0	0	0	0	0	0	0	0
1969	9	14	12	0	0	0	0	0	0	0	0	0
1970	26	11	14	0	0	0	0	0	0	0	0	0
1971	26	7	14	0	0	0	0	0	0	0	0	0
1972	0	17	14	0	0	0	0	0	0	0	0	0
1973	0	17	0	0	0	0	0	0	0	0	0	0
1974	2	19	11	0	0	0	0	0	0	0	0	0
1975	0	12	10	0	0	0	0	0	0	0	0	0
1976	18	7	8	0	0	0	0	0	0	0	0	0

TABLE B-11

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ST. LOUIS (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	40	37	16	10	0	0	0	0	0	0	0	17
1901	37	41	15	18	0	0	0	0	0	0	0	20
1902	50	24	21	8	0	0	0	0	0	0	0	19
1903	29	24	16	1	0	0	0	0	0	0	0	7
1904	20	14	13	4	0	0	0	0	0	0	0	28
1905	24	14	10	5	0	0	0	0	0	0	0	5
1906	26	24	16	2	0	0	0	0	0	0	0	39
1907	26	32	6	14	0	0	0	0	0	0	0	2
1908	40	35	12	13	0	0	0	0	0	0	0	19
1909	29	29	6	16	0	0	0	0	0	0	0	3
1910	30	17	11	0	0	0	0	0	0	0	0	21
1911	30	22	0	11	0	0	0	0	0	0	0	0
1912	28	28	7	9	0	0	0	0	0	0	0	11
1913	11	15	13	10	0	0	0	0	0	0	0	0
1914	43	33	7	0	0	0	0	0	0	0	0	14
1915	25	10	2	2	0	0	0	0	0	0	0	0
1916	24	16	0	7	0	0	0	0	0	0	0	16
1917	50	23	0	8	0	0	0	0	0	0	0	24
1918	46	29	9	6	0	0	0	0	0	0	0	6
1919	24	18	1	0	0	0	0	0	0	0	0	23
1920	54	24	14	8	0	0	0	0	0	0	0	7
1921	23	22	11	2	0	0	0	0	0	0	0	13
1922	56	27	11	3	0	0	0	0	0	0	0	19
1923	35	31	9	10	0	0	0	0	0	0	0	2
1924	25	35	12	17	0	0	0	0	0	0	0	23
1925	37	14	12	5	0	0	0	0	0	0	0	12
1926	36	33	12	10	0	0	0	0	0	0	0	19
1927	42	24	3	4	0	0	0	0	0	0	0	4
1928	13	23	9	2	0	0	0	0	0	0	0	0
1929	29	36	11	2	0	0	0	0	0	0	0	23
1930	31	34	12	2	0	0	0	0	0	0	0	2
1931	23	23	5	0	0	0	0	0	0	0	0	13
1932	0	19	6	4	0	0	0	0	0	0	0	10
1933	7	14	8	1	0	0	0	0	0	0	0	22

TABLE B-11 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ST. LOUIS (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	18	30	18	8	0	0	0	0	0	0	0	18
1935	33	27	11	6	0	0	0	0	0	0	0	11
1936	31	34	5	4	0	0	0	0	0	0	0	6
1937	19	19	10	4	0	0	0	0	0	0	0	14
1938	41	35	4	2	0	0	0	0	0	0	0	1
1939	35	34	9	1	0	0	0	0	0	0	0	5
1940	41	33	15	9	0	0	0	0	0	0	0	8
1941	31	27	9	1	0	0	0	0	0	0	0	4
1942	35	31	4	2	0	0	0	0	0	0	0	13
1943	55	22	15	4	0	0	0	0	0	0	0	15
1944	48	33	8	3	0	0	0	0	0	0	0	10
1945	38	41	0	0	0	0	0	0	0	0	0	14
1946	21	30	1	1	0	0	0	0	0	0	0	1
1947	32	23	5	2	0	0	0	0	0	0	0	12
1948	41	23	6	0	0	0	0	0	0	0	0	0
1949	11	20	1	0	0	0	0	0	0	0	0	2
1950	15	22	11	7	0	0	0	0	0	0	0	12
1951	35	22	4	13	0	0	0	0	0	0	0	31
1952	37	17	5	10	0	0	0	0	0	0	0	6
1953	21	18	8	10	0	0	0	0	0	0	0	0
1954	31	7	2	8	0	0	0	0	0	0	0	5
1955	23	16	0	1	0	0	0	0	0	0	0	12
1956	32	19	7	2	0	0	0	0	0	0	0	0
1957	46	22	6	4	0	0	0	0	0	0	0	11
1958	30	26	3	3	0	0	0	0	0	0	0	33
1959	37	39	8	1	0	0	0	0	0	0	0	10
1960	48	20	11	1	0	0	0	0	0	0	0	9
1961	59	25	18	3	0	0	0	0	0	0	0	7
1962	11	10	6	2	0	0	0	0	0	0	0	12
1963	43	37	12	2	0	0	0	0	0	0	0	26
1964	37	22	4	2	0	0	0	0	0	0	0	6
1965	47	35	1	0	0	0	0	0	0	0	0	0
1966	37	28	10	4	0	0	0	0	0	0	0	7
1967	28	31	8	7	0	0	0	0	0	0	0	1

TABLE B-11 (CONTINUED)

WINTER RETARDATION OF THE OUTFLOW FROM LAKE ST. LOUIS (1000 CFS)
DERIVED DATA

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	37	30	8	4	0	0	0	0	0	0	0	6
1969	50	26	13	5	0	0	0	0	0	0	0	5
1970	42	21	4	0	0	0	0	0	0	0	0	15
1971	42	18	0	0	0	0	0	0	0	0	0	0
1972	33	37	10	0	0	0	0	0	0	0	0	8
1973	19	16	0	0	0	0	0	0	0	0	0	0
1974	45	28	2	3	0	0	0	0	0	0	0	0
1975	5	16	0	0	0	0	0	0	0	0	0	0
1976	18	11	0	0	0	0	0	0	0	0	0	13

ANNEX C

BASIS-OF-COMPARISON

PRECEDING PAGE BLANK-NOT FILMED

ANNEX C

BASIS-OF-COMPARISON

Table		Page
C-1	Lake Superior Monthly Mean Elevation	A-157
C-2	Lakes Michigan-Huron Monthly Mean Elevation	A-160
C-3	Lake St. Clair Monthly Mean Elevation	A-163
C-4	Lake Erie Quarter-Monthly Mean Elevation	A-166
C-5	Lake Erie Monthly Mean Elevation	A-177
C-6	Lake Ontario Quarter-Monthly Mean Elevation (With Deviations)	A-180
C-7	Lake Ontario Monthly Mean Elevation (With Deviations)	A-191
C-8	Lake Superior Monthly Mean Outflow	A-194
C-9	Lakes Michigan-Huron Monthly Mean Outflow	A-197
C-10	Lake St. Clair Monthly Mean Outflow	A-200
C-11	Lake Erie Quarter-Monthly Mean Outflow	A-203
C-12	Lake Erie Monthly Mean Outflow	A-214
C-13	Lake Ontario Quarter-Monthly Mean Outflow (With Deviations)	A-217
C-14	Lake Ontario Monthly Mean Outflow (With Deviations)	A-228
C-15	Lake St. Louis Monthly Mean Outflow (With Deviations)	A-231

[illegible]

TABLE C-1

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	601.36	601.16	600.98	600.92	601.02	601.00	601.10	601.40	601.78	601.93	601.69	601.32
1901	600.95	600.66	600.50	600.53	600.64	600.86	601.17	601.26	601.11	601.03	600.89	600.59
1902	600.30	600.08	599.96	600.02	600.25	600.53	600.71	600.77	600.81	600.82	600.78	600.62
1903	600.38	600.07	599.94	600.10	600.54	600.85	600.97	601.09	601.13	601.11	600.94	600.61
1904	600.28	600.12	600.03	599.99	600.27	600.66	600.81	600.98	601.19	601.31	601.16	600.80
1905	600.46	600.24	600.25	600.37	600.60	600.92	601.18	601.35	601.46	601.37	601.16	600.95
1906	600.68	600.48	600.30	600.31	600.57	600.88	601.08	601.11	601.11	601.04	600.92	600.72
1907	600.50	600.35	600.29	600.27	600.50	600.87	601.04	601.26	601.46	601.37	601.05	600.64
1908	600.29	600.10	599.96	599.97	600.37	600.88	601.15	601.16	601.07	600.95	600.69	600.42
1909	600.18	599.98	599.84	599.82	600.14	600.42	600.64	600.88	600.90	600.82	600.77	600.69
1910	600.46	600.20	599.99	600.00	600.14	600.22	600.27	600.38	600.44	600.34	600.19	599.93
1911	599.45	599.45	599.27	599.22	599.49	599.91	600.30	600.60	600.69	600.60	600.40	600.23
1912	600.02	599.82	599.72	599.87	600.18	600.44	600.62	600.77	600.85	600.84	600.70	600.48
1913	600.22	599.95	599.98	600.23	600.56	600.81	601.02	601.20	601.30	601.28	601.14	600.90
1914	600.58	600.32	600.11	600.14	600.45	600.71	600.88	600.98	601.01	600.92	600.74	600.43
1915	600.16	600.05	599.80	599.75	599.98	600.35	600.66	600.71	600.86	601.01	600.98	600.87
1916	600.69	600.48	600.30	600.53	601.07	601.47	601.62	601.61	601.64	601.60	601.31	601.04
1917	600.77	600.49	600.44	600.46	600.58	600.84	601.00	601.12	601.23	601.16	600.99	600.73
1918	600.48	600.32	600.15	600.12	600.42	600.76	600.95	601.08	601.09	601.14	601.19	601.09
1919	600.87	600.64	600.45	600.46	600.64	600.73	600.78	600.79	600.79	600.72	600.66	600.56
1920	600.37	600.27	600.38	600.65	600.86	601.08	601.27	601.26	601.07	600.93	600.80	600.61
1921	600.37	600.07	599.95	600.13	600.48	600.64	600.71	600.76	600.71	600.57	600.30	599.96
1922	599.64	599.43	599.34	599.52	599.89	600.21	600.45	600.59	600.59	600.45	600.20	599.95
1923	599.72	599.47	599.32	599.37	599.51	599.66	599.85	600.00	600.05	600.05	599.97	599.78
1924	599.54	599.30	599.10	599.14	599.29	599.40	599.56	599.81	600.00	600.00	599.83	599.52
1925	599.24	599.05	598.96	599.04	599.20	599.41	599.64	599.75	599.82	599.75	599.49	599.23
1926	599.00	598.79	598.69	598.70	598.85	599.17	599.53	599.79	600.05	600.21	600.18	600.09
1927	599.91	599.77	599.80	600.03	600.45	600.81	601.03	601.07	600.94	600.81	600.59	600.35
1928	600.16	599.98	599.88	600.03	600.36	600.74	601.06	601.25	601.37	601.46	601.35	601.02
1929	600.76	600.62	600.59	600.70	600.81	600.89	601.07	601.14	601.14	601.17	601.08	600.87
1930	600.63	600.46	600.32	600.28	600.49	600.85	601.12	601.12	601.03	600.94	600.80	600.57
1931	600.29	600.00	599.73	599.65	599.79	600.00	600.18	600.22	600.23	600.32	600.35	600.26
1932	600.05	599.88	599.72	599.70	599.96	600.17	600.33	600.54	600.43	600.18	600.02	599.84
1933	599.61	599.44	599.29	599.34	599.74	600.06	600.19	600.22	600.23	600.23	600.10	599.88

TABLE C-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	599.69	599.55	599.44	599.50	599.77	600.01	600.11	600.13	600.27	600.35	600.28	600.14
1935	599.90	599.68	599.57	599.71	599.99	600.15	600.44	600.54	600.42	600.36	600.24	600.00
1936	599.80	599.67	599.66	599.78	600.16	600.48	600.43	600.39	600.35	600.17	599.95	599.78
1937	599.66	599.65	599.62	599.75	600.15	600.33	600.45	600.60	600.52	600.37	600.24	600.02
1938	599.79	599.63	599.59	599.90	600.32	600.66	600.85	600.88	600.85	600.72	600.57	600.39
1939	600.21	600.08	600.00	600.09	600.43	600.89	601.14	601.20	601.12	600.86	600.54	600.19
1940	599.91	599.68	599.46	599.40	599.71	600.21	600.46	600.45	600.34	600.21	600.11	600.00
1941	599.79	599.57	599.39	599.57	599.95	600.18	600.33	600.39	600.58	600.75	600.60	600.34
1942	600.12	599.89	599.79	599.91	600.25	600.51	600.61	600.73	600.74	600.74	600.70	600.49
1943	600.24	600.07	599.98	600.05	600.41	601.01	601.33	601.33	601.21	601.02	600.87	600.59
1944	600.25	599.99	599.82	599.85	600.19	600.71	601.11	601.31	601.34	601.10	600.84	600.60
1945	600.29	600.16	600.25	600.53	600.75	600.85	600.96	601.07	601.09	600.94	600.79	600.62
1946	600.41	600.27	600.27	600.38	600.51	600.70	600.86	600.87	600.90	600.95	600.82	600.55
1947	600.25	599.98	599.78	599.89	600.29	600.82	601.13	601.14	601.14	601.01	600.79	600.51
1948	600.22	599.97	599.81	600.09	600.41	600.46	600.54	600.68	600.66	600.43	600.33	600.22
1949	600.01	599.82	599.66	599.68	599.93	600.25	600.55	600.64	600.50	600.44	600.30	600.03
1950	599.82	599.64	599.53	599.65	600.20	600.80	601.11	601.25	601.21	601.13	601.04	600.81
1951	600.49	600.34	600.35	600.58	600.96	601.24	601.39	601.45	601.55	601.55	601.36	601.14
1952	600.95	600.74	600.56	600.68	600.87	601.05	601.42	601.63	601.52	601.15	600.84	600.66
1953	600.47	600.35	600.32	600.50	600.89	601.31	601.56	601.65	601.53	601.22	600.91	600.69
1954	600.48	600.32	600.19	600.34	600.85	601.26	601.37	601.23	601.10	601.00	600.88	600.66
1955	600.36	600.17	600.10	600.32	600.63	600.75	600.86	600.98	600.95	600.85	600.77	600.55
1956	600.27	600.02	599.75	599.69	599.98	600.29	600.52	600.68	600.66	600.55	600.39	600.21
1957	599.93	599.69	599.61	599.77	600.03	600.25	600.47	600.50	600.46	600.35	600.26	600.13
1958	599.90	599.70	599.52	599.51	599.60	599.77	600.04	600.23	600.31	600.24	600.10	599.90
1959	599.61	599.39	599.25	599.28	599.61	599.98	600.11	600.34	600.62	600.62	600.36	600.04
1960	599.84	599.62	599.41	599.58	600.13	600.49	600.64	600.73	600.74	600.64	600.57	600.38
1961	600.06	599.90	599.87	599.96	600.18	600.34	600.41	600.39	600.39	600.45	600.37	600.19
1962	599.92	599.73	599.65	599.65	599.92	600.17	600.23	600.33	600.41	600.31	600.05	599.79
1963	599.59	599.44	599.40	599.56	599.76	600.01	600.19	600.20	600.18	600.05	599.90	599.65
1964	599.39	599.18	599.07	599.10	599.58	599.98	600.10	600.17	600.25	600.15	599.94	599.72
1965	599.47	599.27	599.17	599.26	599.65	599.98	600.10	600.21	600.34	600.38	600.33	600.23
1966	600.03	599.82	599.77	599.91	600.16	600.34	600.41	600.54	600.50	600.35	600.21	599.99
1967	599.83	599.70	599.61	599.85	600.14	600.33	600.53	600.62	600.54	600.44	600.37	600.14

TABLE C-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	599.90	599.66	599.57	599.84	600.19	600.56	601.04	601.33	601.49	601.54	601.30	601.01
1969	600.91	600.80	600.60	600.69	600.95	601.07	601.13	601.20	601.14	600.95	600.78	600.55
1970	600.33	600.17	600.02	600.11	600.55	600.90	601.08	601.12	601.06	601.11	601.14	601.03
1971	600.76	600.60	600.59	600.70	601.04	601.31	601.38	601.34	601.26	601.29	601.24	601.02
1972	600.80	600.62	600.53	600.64	600.91	601.08	601.23	601.50	601.61	601.43	601.20	601.01
1973	600.76	600.55	600.55	600.73	600.97	601.22	601.36	601.48	601.48	601.37	601.24	601.02
1974	600.81	600.64	600.47	600.58	600.89	601.16	601.40	601.54	601.51	601.39	601.34	601.20
1975	601.02	600.89	600.73	600.68	600.86	601.11	601.23	601.15	601.08	600.99	600.99	600.95
1976	600.71	600.53	600.52	600.76	600.94	601.02	601.11	601.04	600.84	600.56	600.27	599.96

TABLE C-2

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	577.44	577.47	577.57	577.71	577.96	578.15	578.41	578.66	578.71	578.69	578.65	578.43
1901	578.15	578.04	578.21	578.59	578.89	579.06	579.20	579.28	579.06	578.78	578.50	578.24
1902	578.05	577.90	577.95	578.12	578.35	578.65	578.97	579.00	578.77	578.49	578.28	578.07
1903	577.88	577.93	578.16	578.43	578.67	578.86	578.96	579.00	579.04	578.96	578.68	578.39
1904	578.21	578.18	578.42	578.85	579.31	579.63	579.68	579.60	579.45	579.28	579.01	578.66
1905	578.42	578.35	578.50	578.71	579.00	579.40	579.62	579.64	579.53	579.29	579.07	578.88
1906	578.80	578.88	578.96	579.13	579.34	579.51	579.57	579.41	579.18	578.96	578.78	578.66
1907	578.63	578.67	578.73	578.90	579.14	579.40	579.53	579.48	579.38	579.21	578.97	578.77
1908	578.59	578.55	578.71	578.98	579.41	579.72	579.84	579.75	579.39	578.98	578.52	578.13
1909	577.93	577.92	578.01	578.31	578.80	579.11	579.18	579.06	578.85	578.49	578.19	578.13
1910	578.11	578.08	578.11	578.34	578.61	578.69	578.64	578.51	578.35	578.14	577.89	577.57
1911	577.39	577.39	577.38	577.51	577.82	578.05	578.05	577.91	577.82	577.78	577.72	577.65
1912	577.59	577.56	577.56	577.74	578.34	578.77	578.87	578.94	578.96	578.84	578.67	578.51
1913	578.33	578.22	578.34	578.78	579.25	579.50	579.56	579.49	579.27	579.06	578.98	578.78
1914	578.56	578.49	578.51	578.63	578.83	579.10	579.23	579.16	578.98	578.73	578.39	578.02
1915	577.87	577.92	577.90	577.88	577.99	578.16	578.31	578.35	578.36	578.20	578.03	577.93
1916	577.88	577.94	578.09	578.53	579.11	579.61	579.85	579.75	579.53	579.38	579.25	579.16
1917	579.08	578.96	578.97	579.22	579.52	579.90	580.28	580.26	579.98	579.64	579.33	579.08
1918	578.97	579.06	579.29	579.58	579.94	580.17	580.14	580.00	579.70	579.42	579.26	579.22
1919	579.13	578.97	579.05	579.39	579.78	579.97	579.90	579.68	579.37	579.16	578.97	578.74
1920	578.54	578.41	578.57	578.91	579.12	579.29	579.44	579.45	579.36	579.12	578.78	578.53
1921	578.40	578.29	578.38	578.79	579.08	579.11	579.04	578.90	578.76	578.52	578.22	578.07
1922	577.94	577.90	578.07	578.50	578.97	579.18	579.31	579.21	578.94	578.58	578.21	577.91
1923	577.64	577.48	577.51	577.78	578.15	578.40	578.43	578.31	578.16	577.97	577.64	577.37
1924	577.16	577.08	577.19	577.41	577.71	577.95	578.07	578.16	578.10	577.75	577.38	577.04
1925	576.76	576.67	576.75	576.87	576.86	576.90	576.98	576.83	576.55	576.27	576.02	575.84
1926	575.72	575.70	575.77	576.03	576.36	576.67	576.85	576.84	576.77	576.70	576.75	576.78
1927	576.72	576.75	576.93	577.19	577.57	577.93	578.10	578.04	577.89	577.78	577.71	577.66
1928	577.55	577.55	577.69	578.09	578.53	578.84	579.08	579.18	579.16	579.22	579.36	579.34
1929	579.30	579.26	579.39	579.93	580.58	580.96	581.00	580.83	580.48	580.09	579.73	579.39
1930	579.19	579.23	579.31	579.39	579.58	579.80	579.94	579.80	579.42	578.99	578.57	578.21
1931	577.92	577.72	577.70	577.76	577.84	577.95	577.92	577.67	577.53	577.40	577.28	577.15
1932	577.09	577.17	577.12	577.17	577.39	577.56	577.58	577.53	577.33	577.08	576.85	576.70
1933	576.65	576.61	576.59	576.85	577.39	577.71	577.73	577.51	577.19	576.92	576.66	576.48

TABLE C-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	576.44	576.36	576.30	576.53	576.76	576.90	576.93	576.74	576.65	576.56	576.49	576.51
1935	576.44	576.45	576.60	576.80	576.93	577.14	577.31	577.25	577.08	576.84	576.69	576.58
1936	576.47	576.50	576.60	576.78	577.05	577.26	577.25	577.17	577.13	577.01	576.71	576.44
1937	576.36	576.38	576.35	576.51	576.88	577.14	577.25	577.22	577.12	576.95	576.80	576.61
1938	576.52	576.71	577.10	577.50	577.81	578.10	578.24	578.25	578.17	577.92	577.63	577.41
1939	577.25	577.24	577.35	577.59	577.94	578.26	578.42	578.42	578.30	578.04	577.75	577.47
1940	577.22	577.07	576.96	577.00	577.28	577.63	577.82	577.86	577.81	577.57	577.34	577.24
1941	577.18	577.13	577.02	577.14	577.38	577.47	577.48	577.34	577.25	577.39	577.54	577.51
1942	577.41	577.38	577.56	577.84	578.17	578.52	578.63	578.48	578.28	578.12	577.98	577.87
1943	577.80	577.85	578.05	578.35	578.77	579.33	579.70	579.77	579.61	579.28	579.00	578.70
1944	578.45	578.36	578.37	578.48	578.65	578.90	579.02	578.90	578.78	578.61	578.36	578.10
1945	577.87	577.76	577.85	578.09	578.44	578.88	579.11	579.05	578.95	578.83	578.66	578.49
1946	578.40	578.44	578.61	578.78	578.89	579.07	579.09	578.88	578.60	578.33	578.05	577.81
1947	577.67	577.60	577.57	577.93	578.58	579.05	579.28	579.27	579.12	578.94	578.67	578.29
1948	577.96	577.84	578.02	578.39	578.69	578.87	578.87	578.69	578.34	577.86	577.58	577.45
1949	577.30	577.28	577.28	577.41	577.60	577.80	577.95	577.82	577.51	577.19	576.91	576.70
1950	576.69	576.80	576.96	577.34	577.72	578.00	578.24	578.31	578.24	578.09	577.92	577.79
1951	577.77	577.87	578.08	578.62	579.13	579.32	579.55	579.69	579.61	579.58	579.64	579.60
1952	579.61	579.62	579.65	579.98	580.34	580.50	580.69	580.78	580.57	580.03	579.57	579.37
1953	579.16	579.03	579.07	579.27	579.51	579.79	579.95	579.93	579.72	579.39	579.05	578.69
1954	578.41	578.33	578.41	578.67	579.03	579.38	579.62	579.57	579.45	579.50	579.51	579.26
1955	579.03	578.86	578.80	578.99	579.23	579.31	579.24	579.01	578.61	578.30	578.12	577.86
1956	577.67	577.62	577.66	577.87	578.24	578.52	578.63	578.69	578.51	578.14	577.81	577.56
1957	577.37	577.24	577.21	577.35	577.65	577.95	578.16	578.11	577.87	577.64	577.44	577.36
1958	577.31	577.23	577.15	577.18	577.20	577.20	577.27	577.20	577.05	576.85	576.55	576.26
1959	576.09	576.10	576.22	576.63	577.10	577.28	577.28	577.33	577.33	577.28	577.29	577.31
1960	577.31	577.35	577.35	577.65	578.37	578.91	579.12	579.14	578.94	578.56	578.28	578.00
1961	577.66	577.50	577.53	577.70	577.87	578.02	578.13	578.08	578.02	577.90	577.66	577.42
1962	577.26	577.26	577.34	577.53	577.77	577.93	577.91	577.80	577.60	577.32	576.98	576.62
1963	576.34	576.20	576.29	576.51	576.76	576.91	576.96	576.95	576.80	576.54	576.24	575.91
1964	575.68	575.54	575.46	575.62	575.92	576.10	576.20	576.20	576.13	575.94	575.74	575.60
1965	575.51	575.54	575.65	576.01	576.48	576.70	576.72	576.69	576.81	576.88	576.84	576.88
1966	576.86	576.82	577.00	577.28	577.45	577.57	577.56	577.41	577.16	576.84	576.76	576.87
1967	576.90	576.88	576.91	577.31	577.75	578.08	578.27	578.16	577.95	577.73	577.61	577.61

TABLE C-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	577.58	577.52	577.53	577.71	577.96	578.23	578.43	578.51	578.58	578.47	578.28	578.19
1969	578.16	578.14	578.11	578.34	578.78	579.22	579.54	579.53	579.21	578.93	578.76	578.53
1970	578.36	578.26	578.18	578.34	578.68	578.99	579.23	579.22	579.15	579.09	578.90	578.81
1971	578.71	578.69	578.83	579.14	579.46	579.65	579.76	579.75	579.58	579.36	579.12	579.03
1972	578.93	578.76	578.78	579.07	579.47	579.70	579.84	580.04	580.15	580.03	579.85	579.74
1973	579.72	579.67	579.84	580.22	580.65	581.05	581.16	581.12	580.90	580.57	580.27	579.98
1974	579.89	579.87	579.88	580.16	580.56	580.88	581.04	580.97	580.73	580.40	580.09	579.85
1975	579.66	579.62	579.71	579.91	580.23	580.52	580.61	580.53	580.32	579.91	579.60	579.46
1976	579.30	579.29	579.64	580.09	580.42	580.61	580.62	580.38	579.92	579.41	578.98	578.56

TABLE C-3

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	572.37	572.50	572.96	573.24	573.46	573.56	573.65	573.76	573.62	573.48	573.38	573.25
1901	572.76	572.11	572.36	571.83	572.95	573.65	573.90	573.90	573.77	573.47	573.27	573.33
1902	572.31	572.09	572.87	573.23	573.54	573.85	574.44	574.38	574.03	573.91	573.57	573.55
1903	573.59	573.30	573.72	574.29	574.41	574.47	574.50	574.32	574.24	573.99	573.70	573.86
1904	572.82	573.03	573.88	574.61	574.86	575.01	575.00	574.80	574.57	574.28	573.99	573.85
1905	572.83	572.60	572.97	573.65	574.19	574.67	574.84	574.75	574.52	574.29	574.02	573.92
1906	573.92	573.23	573.28	573.92	574.34	574.57	574.63	574.50	574.24	574.04	573.94	573.79
1907	573.98	573.64	573.60	574.24	574.49	574.71	574.82	574.69	574.48	574.38	574.12	574.01
1908	573.64	573.22	574.06	574.66	574.99	575.10	575.02	574.91	574.45	574.13	573.57	573.27
1909	573.17	572.51	572.74	573.72	574.38	574.61	574.54	574.34	574.02	573.62	573.46	574.05
1910	573.12	572.67	573.50	573.86	574.13	574.14	573.98	573.85	573.64	573.48	573.20	572.91
1911	571.95	571.86	572.49	573.07	573.27	573.40	573.30	573.17	573.07	573.05	572.92	573.02
1912	573.21	573.23	573.47	573.84	574.05	574.21	574.22	574.20	574.21	574.02	573.87	573.59
1913	573.87	573.40	573.72	575.10	575.22	575.10	574.96	574.74	574.39	574.14	574.06	573.88
1914	573.30	573.19	573.00	573.78	574.44	574.57	574.51	574.41	574.20	573.90	573.54	573.67
1915	572.40	572.85	572.72	573.09	573.36	573.48	573.68	573.87	573.81	573.59	573.29	573.18
1916	573.71	573.44	573.08	574.02	574.67	574.97	575.06	574.87	574.50	574.24	574.05	574.30
1917	574.27	573.90	573.87	574.57	574.95	575.31	575.61	575.49	575.09	574.85	574.73	574.35
1918	573.04	573.30	573.50	573.68	574.50	574.75	574.81	574.71	574.57	574.31	574.20	574.12
1919	574.43	573.87	574.21	574.75	575.27	575.37	575.13	574.94	574.63	574.38	574.19	573.72
1920	572.28	572.28	572.82	573.63	574.07	574.32	574.49	574.48	574.29	574.07	573.85	573.66
1921	573.69	572.60	573.69	574.26	574.52	574.50	574.40	574.14	573.92	573.70	573.47	573.49
1922	573.13	572.41	573.09	573.96	574.26	574.51	574.49	574.33	574.11	573.75	573.34	573.12
1923	572.73	572.38	572.60	573.09	573.48	573.76	573.74	573.51	573.33	573.10	572.85	572.73
1924	572.79	571.98	572.32	572.95	573.43	573.65	573.74	573.62	573.44	573.21	572.77	572.29
1925	571.85	571.51	572.19	572.50	572.47	572.54	572.54	572.43	572.24	571.96	571.81	571.49
1926	570.62	570.39	570.84	571.73	572.16	572.25	572.34	572.41	572.48	572.66	572.71	572.74
1927	571.68	571.37	572.08	572.85	573.18	573.46	573.58	573.43	573.20	573.01	572.97	573.24
1928	573.12	572.61	572.42	573.28	573.74	574.07	574.35	574.35	574.12	574.05	574.05	574.11
1929	574.34	574.67	574.60	575.48	576.05	576.12	576.10	575.75	575.36	574.94	574.75	574.47
1930	574.66	574.45	574.98	575.25	575.27	575.19	575.15	574.84	574.49	574.18	573.69	573.44
1931	572.89	571.77	571.69	572.91	573.15	573.32	573.35	573.13	572.95	572.79	572.60	572.59
1932	572.86	573.18	572.46	572.97	573.33	573.33	573.28	573.12	572.86	572.49	572.36	572.87
1933	572.65	572.15	572.48	573.09	573.39	573.56	573.35	573.06	572.68	572.38	572.06	572.21

TABLE C-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	571.20	571.17	571.17	572.10	572.19	572.24	572.26	572.10	571.99	571.79	571.61	571.78
1935	571.45	571.30	571.63	572.02	572.38	572.44	572.61	572.62	572.35	572.07	571.91	571.66
1936	570.91	571.07	571.64	572.19	572.44	572.57	572.51	572.35	572.31	572.14	571.95	571.82
1937	572.15	571.99	572.23	572.74	573.09	573.20	573.38	573.23	572.83	572.52	572.26	572.48
1938	571.79	572.27	572.35	573.23	573.42	573.57	573.65	573.62	573.41	573.14	572.84	572.68
1939	572.52	571.84	572.19	573.21	573.47	573.61	573.66	573.56	573.38	573.05	572.83	572.58
1940	571.75	571.36	571.63	572.62	572.95	573.33	573.42	573.31	573.24	572.99	572.78	572.82
1941	572.40	571.71	571.95	572.42	572.78	572.89	572.87	572.69	572.51	572.43	572.47	572.37
1942	572.02	570.99	572.08	573.25	573.57	573.91	573.95	573.83	573.62	573.35	573.30	573.38
1943	572.91	572.63	573.32	573.82	574.67	575.09	575.28	575.10	574.77	574.42	574.15	573.78
1944	572.50	572.55	572.88	573.90	574.30	574.48	574.41	574.13	573.92	573.69	573.42	573.29
1945	572.67	572.43	573.27	573.78	574.27	574.61	574.74	574.52	574.32	574.41	574.07	574.18
1946	573.45	572.88	573.73	573.95	574.09	574.50	574.52	574.23	573.83	573.53	573.27	573.05
1947	572.55	572.44	572.85	574.05	574.57	575.06	575.01	574.88	574.62	574.22	573.89	573.65
1948	573.42	573.17	573.72	574.25	574.67	574.65	574.57	574.28	573.89	573.34	573.08	572.99
1949	573.18	573.27	572.91	573.41	573.50	573.54	573.52	573.28	572.96	572.70	572.35	572.37
1950	572.83	572.91	573.08	573.99	574.00	574.00	573.98	573.80	573.71	573.52	573.33	573.60
1951	573.27	573.45	574.10	574.61	574.88	574.97	574.97	574.86	574.60	574.41	574.44	574.85
1952	575.10	575.13	575.32	575.69	575.79	575.81	575.76	575.63	575.43	574.84	574.41	574.33
1953	574.36	574.28	574.51	574.67	574.89	575.16	575.14	574.97	574.63	574.24	573.94	573.67
1954	572.87	572.83	573.83	574.44	574.69	574.76	574.73	574.54	574.39	574.56	574.60	574.45
1955	574.47	574.08	574.66	574.85	574.92	574.84	574.68	574.40	574.10	573.82	573.53	573.44
1956	572.24	571.71	572.87	573.62	574.46	574.47	574.43	574.45	574.21	573.72	573.28	573.08
1957	572.31	572.39	572.94	573.45	573.74	573.82	574.13	573.85	573.57	573.20	572.94	573.08
1958	572.15	571.70	572.41	572.37	572.81	572.90	573.07	573.01	572.82	572.54	572.15	572.14
1959	571.18	571.42	572.42	572.92	573.20	573.18	573.04	572.93	572.74	572.71	572.68	572.89
1960	572.84	572.48	572.84	573.60	573.94	574.37	574.39	574.35	574.10	573.66	573.31	573.28
1961	572.73	572.74	573.19	573.58	574.00	574.00	573.93	573.85	573.65	573.29	572.97	572.80
1962	572.50	571.75	572.79	573.06	573.18	573.32	573.23	573.11	572.86	572.66	572.47	572.38
1963	571.78	571.42	571.98	572.43	572.58	572.63	572.53	572.43	572.21	571.91	571.63	571.55
1964	570.80	570.66	571.23	571.76	572.04	572.07	572.04	571.96	571.77	571.41	571.19	571.18
1965	570.77	570.99	571.74	572.20	572.38	572.44	572.39	572.27	572.23	572.17	572.13	572.22
1966	572.20	572.05	572.52	572.92	573.13	573.24	573.16	573.01	572.73	572.29	572.29	572.72
1967	572.84	572.39	572.82	573.30	573.53	573.71	573.78	573.60	573.30	573.19	573.09	573.35

TABLE C-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	573.18	573.44	573.51	573.66	573.76	574.03	574.10	574.04	573.88	573.63	573.46	573.60
1969	573.66	573.74	573.70	574.20	574.64	574.95	575.16	575.01	574.54	574.17	573.97	573.77
1970	572.74	572.87	573.54	573.91	574.15	574.35	574.49	574.39	574.21	574.16	574.04	574.04
1971	573.98	573.86	574.30	574.53	574.60	574.80	574.73	574.65	574.59	574.54	574.23	574.17
1972	574.36	574.17	574.35	574.66	575.04	575.15	575.27	575.26	575.18	575.10	575.15	575.25
1973	575.34	575.19	575.64	575.95	576.11	576.44	576.40	576.20	575.87	575.52	575.29	575.24
1974	575.55	575.52	575.79	576.03	576.19	576.26	576.20	575.97	575.61	575.29	575.09	575.07
1975	575.21	575.23	575.38	575.62	575.66	575.85	575.77	575.67	575.64	575.25	574.93	574.96
1976	574.90	574.83	575.72	575.83	575.98	575.93	575.98	575.70	575.22	574.81	574.34	574.12

TABLE C-4

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1900	JAN	569.74	569.53	569.55	569.58	FEB	569.59	569.63	569.70	569.79	MAR	569.90	570.01	570.11	570.22
	APR	570.31	570.41	570.50	570.57	MAY	570.63	570.66	570.66	570.66	JUN	570.69	570.70	570.66	570.64
	JUL	570.66	570.65	570.64	570.65	AUG	570.64	570.63	570.67	570.66	SEP	570.57	570.46	570.31	570.26
	OCT	570.27	570.22	570.18	570.11	NOV	570.05	570.00	570.01	570.07	DEC	570.12	570.14	570.07	569.99
1901	JAN	569.96	569.99	570.02	569.98	FEB	569.88	569.74	569.54	569.42	MAR	569.39	569.47	569.60	569.76
	APR	569.90	569.91	569.91	569.90	MAY	569.85	569.85	569.94	570.10	JUN	570.20	570.30	570.43	570.47
	JUL	570.53	570.56	570.50	570.51	AUG	570.49	570.40	570.38	570.46	SEP	570.51	570.44	570.33	570.26
	OCT	570.16	570.08	570.05	570.00	NOV	569.95	569.92	569.90	569.89	DEC	569.86	569.87	569.93	569.97
1902	JAN	570.00	569.96	569.85	569.71	FEB	569.56	569.48	569.43	569.37	MAR	569.46	569.65	569.80	569.95
	APR	570.12	570.26	570.33	570.36	MAY	570.46	570.57	570.61	570.66	JUN	570.71	570.78	570.85	570.97
	JUL	571.24	571.40	571.48	571.61	AUG	571.63	571.55	571.41	571.25	SEP	571.11	571.02	571.02	571.11
	OCT	571.15	571.11	571.04	570.91	NOV	570.78	570.70	570.68	570.60	DEC	570.49	570.44	570.47	570.52
1903	JAN	570.51	570.43	570.39	570.33	FEB	570.38	570.56	570.51	570.38	MAR	570.62	570.96	571.09	571.17
	APR	571.34	571.68	571.85	571.78	MAY	571.73	571.68	571.62	571.59	JUN	571.61	571.63	571.64	571.61
	JUL	571.59	571.57	571.57	571.58	AUG	571.48	571.37	571.28	571.31	SEP	571.35	571.30	571.18	571.05
	OCT	571.01	570.98	570.89	570.73	NOV	570.56	570.49	570.46	570.45	DEC	570.37	570.28	570.22	570.17
1904	JAN	570.15	570.09	570.09	570.19	FEB	570.25	570.24	570.22	570.25	MAR	570.45	570.69	570.81	571.14
	APR	571.60	571.84	571.90	571.94	MAY	572.00	572.01	571.99	572.07	JUN	572.24	572.26	572.15	572.09
	JUL	572.09	572.12	572.12	572.05	AUG	571.90	571.78	571.73	571.71	SEP	571.66	571.58	571.47	571.39
	OCT	571.32	571.24	571.12	571.00	NOV	571.00	570.90	570.73	570.66	DEC	570.62	570.60	570.53	570.43
1905	JAN	570.38	570.29	570.27	570.23	FEB	570.12	570.02	569.94	569.89	MAR	569.83	569.81	569.93	570.21
	APR	570.42	570.52	570.68	570.84	MAY	570.95	571.10	571.29	571.38	JUN	571.49	571.65	571.78	571.81
	JUL	571.74	571.75	571.76	571.72	AUG	571.63	571.59	571.62	571.58	SEP	571.44	571.37	571.35	571.31
	OCT	571.24	571.15	571.04	570.89	NOV	570.79	570.79	570.76	570.76	DEC	570.77	570.80	570.77	570.72
1906	JAN	570.73	570.75	570.86	570.99	FEB	571.00	570.92	570.75	570.64	MAR	570.58	570.58	570.58	570.64
	APR	570.82	570.95	571.04	571.11	MAY	571.15	571.18	571.23	571.24	JUN	571.27	571.37	571.40	571.40
	JUL	571.43	571.46	571.43	571.41	AUG	571.41	571.39	571.41	571.37	SEP	571.24	571.13	571.07	571.04
	OCT	570.98	570.94	570.93	570.92	NOV	570.89	570.86	570.83	570.82	DEC	570.97	571.14	571.24	571.17

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1907	JAN	571.20	571.51	571.69	571.60	FEB	571.41	571.24	571.10	571.01	MAR	570.90	570.83	570.93	571.20
	APR	571.34	571.35	571.32	571.34	MAY	571.43	571.45	571.47	571.60	JUN	571.75	571.86	571.90	571.90
	JUL	571.90	571.90	571.90	571.86	AUG	571.79	571.72	571.59	571.46	SEP	571.42	571.40	571.39	571.38
	OCT	571.38	571.36	571.29	571.23	NOV	571.21	571.12	571.02	570.97	DEC	570.93	570.92	570.96	571.09
1908	JAN	571.29	571.36	571.26	571.09	FEB	570.95	570.92	570.97	571.04	MAR	571.12	571.29	571.48	571.65
	APR	571.81	571.94	572.00	571.99	MAY	572.03	572.12	572.19	572.24	JUN	572.24	572.19	572.13	572.08
	JUL	572.03	571.96	571.94	571.94	AUG	571.87	571.83	571.80	571.70	SEP	571.53	571.40	571.32	571.23
	OCT	571.13	571.00	570.89	570.84	NOV	570.67	570.42	570.31	570.24	DEC	570.16	570.19	570.19	570.12
1909	JAN	570.15	570.20	570.13	570.11	FEB	570.13	570.16	570.20	570.33	MAR	570.50	570.51	570.46	570.49
	APR	570.57	570.69	570.82	570.96	MAY	571.21	571.53	571.69	571.72	JUN	571.83	571.89	571.85	571.85
	JUL	571.78	571.69	571.65	571.60	AUG	571.55	571.50	571.42	571.32	SEP	571.20	571.10	571.01	570.86
	OCT	570.69	570.54	570.43	570.36	NOV	570.33	570.33	570.35	570.38	DEC	570.29	570.20	570.20	570.20
1910	JAN	570.14	570.05	570.00	569.98	FEB	569.95	569.93	569.89	569.91	MAR	570.12	570.35	570.44	570.50
	APR	570.60	570.67	570.79	570.99	MAY	571.18	571.25	571.23	571.25	JUN	571.31	571.31	571.26	571.19
	JUL	571.12	571.11	571.10	571.08	AUG	571.05	571.00	570.95	570.87	SEP	570.84	570.79	570.68	570.59
	OCT	570.58	570.60	570.57	570.45	NOV	570.29	570.20	570.14	570.15	DEC	570.17	570.10	570.01	569.93
1911	JAN	569.84	569.80	569.77	569.75	FEB	569.78	569.76	569.75	569.71	MAR	569.67	569.67	569.70	569.80
	APR	569.96	570.08	570.25	570.38	MAY	570.40	570.40	570.43	570.45	JUN	570.48	570.51	570.51	570.49
	JUL	570.44	570.40	570.32	570.24	AUG	570.20	570.22	570.22	570.16	SEP	570.13	570.10	570.07	570.09
	OCT	570.11	570.09	570.07	570.01	NOV	569.87	569.77	569.83	569.87	DEC	569.90	570.12	570.26	570.23
1912	JAN	570.12	570.07	570.07	570.04	FEB	569.95	569.84	569.76	569.76	MAR	569.78	569.76	569.90	570.21
	APR	570.53	570.84	571.05	571.12	MAY	571.13	571.18	571.26	571.31	JUN	571.32	571.32	571.35	571.35
	JUL	571.27	571.22	571.23	571.23	AUG	571.19	571.18	571.21	571.22	SEP	571.25	571.25	571.18	571.12
	OCT	571.05	570.93	570.89	570.90	NOV	570.88	570.83	570.71	570.56	DEC	570.46	570.42	570.40	570.40
1913	JAN	570.65	570.94	571.23	571.42	FEB	571.38	571.35	571.30	571.18	MAR	571.04	570.99	571.12	571.83
	APR	572.58	572.77	572.75	572.73	MAY	572.70	572.63	572.56	572.53	JUN	572.53	572.47	572.39	572.32
	JUL	572.27	572.23	572.13	572.06	AUG	571.96	571.86	571.81	571.69	SEP	571.59	571.46	571.22	571.14
	OCT	571.16	571.10	570.98	570.86	NOV	570.80	570.83	570.93	571.03	DEC	571.02	570.85	570.82	570.89

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 2				QUARTER 3				QUARTER 4			
1914	JAN	570.86	570.82	570.79	FEB	570.62	570.57	570.53	MAR	570.31	570.25	570.26	570.50			
	APR	570.81	570.96	571.04	MAY	571.34	571.63	571.84	JUN	571.87	571.84	571.76	571.69			
	JUL	571.65	571.64	571.59	AUG	571.43	571.34	571.35	SEP	571.31	571.21	571.13	571.05			
	OCT	570.92	570.91	570.94	NOV	570.51	570.40	570.32	DEC	570.32	570.24	570.12	570.09			
1915	JAN	570.10	570.05	569.95	FEB	569.95	570.06	570.18	MAR	570.30	570.24	570.13	570.10			
	APR	570.14	570.17	570.20	MAY	570.26	570.35	570.40	JUN	570.51	570.53	570.53	570.56			
	JUL	570.61	570.69	570.78	AUG	570.91	570.99	571.04	SEP	570.94	570.92	570.93	570.94			
	OCT	570.84	570.75	570.75	NOV	570.48	570.36	570.26	DEC	570.21	570.23	570.18	570.24			
1916	JAN	570.49	570.68	570.73	FEB	571.02	571.02	570.95	MAR	570.75	570.75	570.80	570.98			
	APR	571.17	571.28	571.40	MAY	571.63	571.72	571.80	JUN	572.09	572.19	572.24	572.25			
	JUL	572.26	572.21	572.13	AUG	571.95	571.82	571.75	SEP	571.51	571.42	571.26	571.15			
	OCT	571.07	570.99	570.92	NOV	570.80	570.80	570.71	DEC	570.65	570.66	570.68	570.72			
1917	JAN	570.75	570.81	570.79	FEB	570.62	570.52	570.43	MAR	570.43	570.55	570.72	570.92			
	APR	571.36	571.65	571.67	MAY	571.76	571.85	571.98	JUN	572.30	572.43	572.47	572.56			
	JUL	572.68	572.77	572.82	AUG	572.64	572.51	572.41	SEP	572.30	572.24	572.11	571.98			
	OCT	571.89	571.80	571.75	NOV	571.87	571.86	571.82	DEC	571.66	571.55	571.39	571.25			
1918	JAN	571.08	570.84	570.67	FEB	570.43	570.36	570.49	MAR	570.80	570.99	571.14	571.16			
	APR	571.12	571.01	570.85	MAY	570.65	570.78	570.97	JUN	571.19	571.24	571.27	571.29			
	JUL	571.31	571.35	571.35	AUG	571.35	571.35	571.30	SEP	571.26	571.25	571.21	571.14			
	OCT	571.09	571.04	571.02	NOV	571.00	570.92	570.85	DEC	570.77	570.91	571.04	571.10			
1919	JAN	571.01	570.89	570.92	FEB	571.02	570.99	570.98	MAR	570.95	571.09	571.31	571.55			
	APR	571.63	571.69	571.87	MAY	572.14	572.33	572.45	JUN	572.56	572.53	572.46	572.39			
	JUL	572.32	572.25	572.17	AUG	572.04	571.97	571.88	SEP	571.72	571.62	571.53	571.43			
	OCT	571.36	571.31	571.24	NOV	571.24	571.14	571.00	DEC	570.87	570.82	570.71	570.52			
1920	JAN	570.36	570.26	570.16	FEB	569.84	569.63	569.54	MAR	569.44	569.53	569.76	569.95			
	APR	570.10	570.31	570.59	MAY	570.99	571.06	571.10	JUN	571.12	571.16	571.28	571.35			
	JUL	571.35	571.38	571.42	AUG	571.34	571.34	571.39	SEP	571.23	571.15	571.10	571.01			
	OCT	570.92	570.85	570.80	NOV	570.73	570.74	570.74	DEC	570.80	570.79	570.75	570.73			

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1921	JAN 570.79	570.81	570.79	570.81	FEB 570.83	570.78	570.68	570.60	MAR 570.58	570.77	570.96	571.14
	APR 571.28	571.40	571.57	571.76	MAY 571.82	571.77	571.73	571.76	JUN 571.75	571.69	571.65	571.65
	JUL 571.65	571.62	571.53	571.39	AUG 571.30	571.23	571.18	571.10	SEP 571.03	570.99	570.90	570.77
	OCT 570.67	570.59	570.54	570.51	NOV 570.49	570.47	570.55	570.61	DEC 570.58	570.59	570.64	570.61
1922	JAN 570.49	570.41	570.31	570.20	FEB 570.13	570.06	570.00	570.01	MAR 570.00	570.05	570.21	570.49
	APR 570.82	571.08	571.29	571.39	MAY 571.44	571.46	571.54	571.64	JUN 571.63	571.63	571.65	571.62
	JUL 571.57	571.54	571.50	571.45	AUG 571.43	571.33	571.21	571.17	SEP 571.17	571.19	571.13	570.98
	OCT 570.90	570.80	570.61	570.46	NOV 570.39	570.31	570.20	570.07	DEC 570.01	570.01	569.95	569.97
1923	JAN 570.08	570.08	570.03	569.97	FEB 569.83	569.72	569.65	569.60	MAR 569.61	569.73	569.90	570.06
	APR 570.15	570.26	570.35	570.41	MAY 570.46	570.54	570.70	570.83	JUN 570.88	570.89	570.85	570.83
	JUL 570.85	570.84	570.81	570.75	AUG 570.67	570.59	570.47	570.34	SEP 570.31	570.31	570.28	570.27
	OCT 570.16	570.01	569.93	569.85	NOV 569.80	569.77	569.72	569.67	DEC 569.78	569.94	570.05	570.18
1924	JAN 570.17	570.15	570.17	570.18	FEB 570.20	570.18	570.11	569.96	MAR 569.89	569.89	569.91	570.05
	APR 570.26	570.43	570.56	570.65	MAY 570.74	570.84	570.87	570.89	JUN 570.92	570.96	571.00	571.12
	JUL 571.18	571.13	571.08	571.03	AUG 570.98	570.90	570.77	570.65	SEP 570.61	570.59	570.55	570.49
	OCT 570.47	570.45	570.34	570.17	NOV 570.03	569.92	569.74	569.65	DEC 569.63	569.62	569.65	569.64
1925	JAN 569.59	569.51	569.42	569.33	FEB 569.24	569.23	569.29	569.41	MAR 569.50	569.56	569.72	569.91
	APR 569.98	569.97	570.01	570.04	MAY 570.04	570.00	569.96	569.90	JUN 569.84	569.81	569.81	569.84
	JUL 569.82	569.79	569.75	569.73	AUG 569.73	569.76	569.76	569.65	SEP 569.54	569.59	569.60	569.53
	OCT 569.44	569.26	569.14	569.13	NOV 569.08	569.07	569.14	569.21	DEC 569.20	569.14	569.06	568.90
1926	JAN 568.79	568.75	568.66	568.62	FEB 568.56	568.49	568.42	568.38	MAR 568.43	568.47	568.50	568.61
	APR 569.00	569.40	569.49	569.50	MAY 569.56	569.57	569.53	569.52	JUN 569.53	569.62	569.71	569.70
	JUL 569.68	569.65	569.62	569.62	AUG 569.67	569.76	569.80	569.72	SEP 569.71	569.76	569.84	570.01
	OCT 570.16	570.17	570.09	570.07	NOV 570.08	570.06	570.06	570.10	DEC 570.13	570.09	570.03	569.97
1927	JAN 569.89	569.76	569.64	569.56	FEB 569.54	569.55	569.51	569.49	MAR 569.46	569.51	569.78	570.05
	APR 570.18	570.24	570.27	570.30	MAY 570.35	570.44	570.57	570.69	JUN 570.77	570.77	570.77	570.77
	JUL 570.73	570.73	570.77	570.79	AUG 570.75	570.68	570.59	570.47	SEP 570.41	570.39	570.28	570.16
	OCT 570.14	570.08	569.97	569.89	NOV 569.82	569.77	569.85	570.15	DEC 570.38	570.51	570.66	570.69

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
	1	2	3	4	1	2	3	4	1	2	3	4
1928	JAN 570.69	570.72	570.72	570.66	FEB 570.60	570.58	570.57	570.51	MAR 570.37	570.26	570.19	570.28
	APR 570.44	570.55	570.63	570.70	MAY 570.71	570.70	570.76	570.81	JUN 570.93	571.07	571.17	571.32
	JUL 571.39	571.43	571.49	571.49	AUG 571.48	571.44	571.32	571.22	SEP 571.10	571.01	570.90	570.77
	OCT 570.71	570.70	570.73	570.69	NOV 570.66	570.67	570.69	570.75	DEC 570.78	570.81	570.86	570.88
1929	JAN 570.83	570.80	570.99	571.10	FEB 571.04	571.00	570.96	571.00	MAR 571.16	571.31	571.54	571.78
	APR 572.04	572.28	572.49	572.76	MAY 572.93	573.02	573.08	573.10	JUN 573.04	572.98	572.97	572.94
	JUL 572.97	572.98	572.90	572.83	AUG 572.73	572.60	572.51	572.38	SEP 572.32	572.23	572.08	572.00
	OCT 571.89	571.73	571.69	571.70	NOV 571.66	571.65	571.68	571.64	DEC 571.58	571.61	571.72	571.70
1930	JAN 571.91	572.34	572.47	572.32	FEB 572.14	572.01	571.94	572.06	MAR 572.24	572.28	572.31	572.40
	APR 572.47	572.51	572.57	572.59	MAY 572.55	572.49	572.45	572.37	JUN 572.32	572.31	572.31	572.29
	JUL 572.22	572.12	572.07	572.00	AUG 571.90	571.77	571.64	571.59	SEP 571.51	571.41	571.34	571.27
	OCT 571.16	571.10	571.00	570.88	NOV 570.79	570.73	570.66	570.54	DEC 570.55	570.60	570.56	570.43
1931	JAN 570.41	570.40	570.30	570.22	FEB 570.12	570.01	569.94	569.86	MAR 569.73	569.62	569.57	569.69
	APR 569.84	569.95	570.06	570.17	MAY 570.27	570.32	570.33	570.36	JUN 570.44	570.50	570.50	570.49
	JUL 570.53	570.53	570.51	570.48	AUG 570.43	570.40	570.31	570.18	SEP 570.10	570.08	570.06	569.99
	OCT 569.94	569.88	569.77	569.69	NOV 569.59	569.58	569.68	569.65	DEC 569.59	569.59	569.66	569.80
1932	JAN 569.96	570.09	570.30	570.50	FEB 570.52	570.57	570.65	570.66	MAR 570.59	570.49	570.41	570.38
	APR 570.42	570.51	570.56	570.57	MAY 570.65	570.77	570.78	570.78	JUN 570.82	570.80	570.72	570.66
	JUL 570.65	570.65	570.65	570.59	AUG 570.53	570.45	570.33	570.28	SEP 570.23	570.15	570.03	569.88
	OCT 569.74	569.65	569.62	569.58	NOV 569.57	569.58	569.55	569.53	DEC 569.52	569.45	569.39	569.54
1933	JAN 569.73	569.74	569.79	569.89	FEB 569.87	569.79	569.68	569.65	MAR 569.69	569.78	569.95	570.11
	APR 570.26	570.43	570.55	570.59	MAY 570.67	570.83	570.93	570.96	JUN 570.95	570.89	570.80	570.74
	JUL 570.71	570.65	570.57	570.48	AUG 570.43	570.40	570.28	570.13	SEP 570.05	569.98	569.85	569.77
	OCT 569.74	569.63	569.52	569.43	NOV 569.31	569.17	569.11	569.11	DEC 569.11	569.14	569.15	569.14
1934	JAN 569.12	569.07	568.96	568.85	FEB 568.75	568.66	568.57	568.49	MAR 568.49	568.51	568.54	568.62
	APR 568.79	569.02	569.20	569.28	MAY 569.29	569.30	569.32	569.32	JUN 569.33	569.31	569.34	569.38
	JUL 569.38	569.36	569.32	569.26	AUG 569.26	569.30	569.24	569.11	SEP 569.06	569.08	569.10	569.08
	OCT 568.98	568.83	568.74	568.65	NOV 568.57	568.50	568.50	568.56	DEC 568.57	568.53	568.51	568.53

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
	JAN	FEB	MAR		APR	MAY	JUN		JUL	AUG	SEP	
1935	568.56	568.49	568.50		569.01	569.27	569.57		569.70	569.78	569.46	
1936	568.69	568.15	568.31		569.32	569.66	569.68		569.63	569.41	569.20	
1937	568.94	569.94	569.92		569.84	570.76	570.70		571.13	570.97	570.60	
1938	569.38	569.19	569.95		570.47	570.68	570.79		570.83	570.88	570.50	
1939	569.58	569.57	569.75		570.09	570.76	570.74		570.82	570.72	570.41	
1940	569.40	569.00	569.09		569.51	570.22	570.56		570.74	570.61	570.53	
1941	570.27	569.94	569.62		569.70	569.90	570.03		570.03	569.94	569.69	

YEAR	QUARTER 4				QUARTER 4				QUARTER 4			
	OCT	NOV	DEC									
1935	569.01	568.86	568.83		568.60	568.44	568.94		569.14	569.50	569.68	
1936	569.04	568.81	568.78		568.25	568.13	569.05		569.58	569.67	569.62	
1937	569.69	569.36	569.34		569.85	570.00	569.81		570.61	570.74	571.10	
1938	570.01	569.79	569.61		570.18	569.93	570.26		570.70	570.64	570.84	
1939	569.82	569.65	569.46		569.60	569.66	569.97		570.72	570.49	570.12	
1940	569.08	569.05	569.28		569.19	569.31	569.71		570.67	570.46	570.29	
1941	570.08	569.66	569.60		569.57	569.77	569.86		569.98	569.75	569.38	

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
1942	JAN 569.25	569.15	569.13	569.13	FEB 569.26	569.31	569.28	569.23	MAR 569.13	569.30	569.65	569.92
	APR 570.13	570.40	570.56	570.58	MAY 570.59	570.64	570.74	570.88	JUN 570.99	571.05	571.07	571.04
	JUL 571.01	570.99	571.01	571.06	AUG 571.05	571.02	570.94	570.84	SEP 570.78	570.72	570.63	570.54
	OCT 570.49	570.50	570.48	570.40	NOV 570.35	570.31	570.38	570.46	DEC 570.41	570.35	570.30	570.30
1943	JAN 570.77	570.78	570.63	570.46	FEB 570.40	570.42	570.40	570.41	MAR 570.40	570.41	570.61	570.79
	APR 570.87	570.91	571.03	571.23	MAY 571.41	571.65	572.00	572.28	JUN 572.40	572.45	572.44	572.40
	JUL 572.40	572.46	572.46	572.42	AUG 572.35	572.26	572.13	572.00	SEP 571.91	571.82	571.69	571.57
	OCT 571.46	571.35	571.30	571.26	NOV 571.18	571.12	571.07	571.01	DEC 570.95	570.87	570.75	570.65
1944	JAN 570.56	570.40	570.23	570.14	FEB 570.14	570.13	570.11	570.13	MAR 570.18	570.20	570.28	570.43
	APR 570.59	570.95	571.30	571.42	MAY 571.47	571.54	571.64	571.69	JUN 571.68	571.66	571.66	571.68
	JUL 571.64	571.54	571.42	571.31	AUG 571.27	571.24	571.16	571.05	SEP 570.95	570.91	570.86	570.82
	OCT 570.77	570.66	570.55	570.43	NOV 570.35	570.36	570.35	570.27	DEC 570.20	570.18	570.16	570.14
1945	JAN 570.14	570.08	569.94	569.79	FEB 569.70	569.65	569.65	569.78	MAR 570.06	570.28	570.54	570.79
	APR 570.99	571.12	571.13	571.17	MAY 571.24	571.32	571.54	571.72	JUN 571.75	571.78	571.92	572.04
	JUL 572.01	571.95	571.92	571.90	AUG 571.84	571.75	571.66	571.51	SEP 571.38	571.32	571.31	571.42
	OCT 571.60	571.58	571.50	571.46	NOV 571.35	571.23	571.16	571.16	DEC 571.14	571.03	570.94	570.92
1946	JAN 570.99	571.08	571.04	570.84	FEB 570.63	570.53	570.49	570.45	MAR 570.53	570.72	570.89	570.99
	APR 570.99	570.97	570.97	570.97	MAY 570.96	571.02	571.15	571.28	JUN 571.39	571.50	571.70	571.80
	JUL 571.76	571.69	571.64	571.59	AUG 571.48	571.37	571.28	571.14	SEP 571.00	570.93	570.85	570.75
	OCT 570.64	570.55	570.51	570.49	NOV 570.44	570.38	570.27	570.20	DEC 570.16	570.11	570.08	570.10
1947	JAN 570.12	570.08	570.06	570.17	FEB 570.27	570.17	570.03	569.92	MAR 569.86	569.89	570.01	570.22
	APR 570.64	571.03	571.30	571.52	MAY 571.68	571.81	571.94	572.11	JUN 572.36	572.56	572.55	572.47
	JUL 572.37	572.30	572.25	572.17	AUG 572.12	572.06	572.01	571.99	SEP 571.96	571.84	571.68	571.50
	OCT 571.33	571.26	571.22	571.19	NOV 571.08	570.95	570.85	570.74	DEC 570.73	570.75	570.76	570.80
1948	JAN 570.79	570.74	570.64	570.49	FEB 570.35	570.29	570.35	570.50	MAR 570.60	570.61	570.92	571.33
	APR 571.50	571.62	571.69	571.72	MAY 571.79	571.97	572.11	572.08	JUN 572.05	571.99	571.95	571.99
	JUL 571.95	571.88	571.83	571.72	AUG 571.59	571.50	571.46	571.38	SEP 571.26	571.16	571.01	570.85
	OCT 570.67	570.54	570.50	570.43	NOV 570.38	570.32	570.30	570.31	DEC 570.24	570.19	570.19	570.17

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1949	JAN	570.21	570.29	570.44	FEB	570.56	570.57	570.71	MAR	570.92	570.87	570.78
	APR	570.91	570.93	570.95	MAY	570.99	570.93	571.00	JUN	570.99	570.93	570.93
	JUL	570.91	570.83	570.79	AUG	570.67	570.58	570.47	SEP	570.31	570.22	570.08
	OCT	569.96	569.97	569.90	NOV	569.61	569.54	569.52	DEC	569.45	569.43	569.51
1950	JAN	569.91	570.22	570.44	FEB	570.78	570.90	571.08	MAR	570.84	570.85	570.93
	APR	571.53	571.67	571.68	MAY	571.78	571.72	571.66	JUN	571.59	571.59	571.54
	JUL	571.41	571.33	571.30	AUG	571.20	571.06	570.94	SEP	570.93	570.90	570.83
	OCT	570.63	570.63	570.63	NOV	570.48	570.41	570.45	DEC	570.78	570.97	570.94
1951	JAN	570.87	570.95	570.97	FEB	570.85	570.84	570.98	MAR	571.39	571.52	571.60
	APR	571.86	571.98	572.06	MAY	572.17	572.21	572.26	JUN	572.21	572.18	572.20
	JUL	572.13	572.06	572.02	AUG	571.89	571.81	571.70	SEP	571.49	571.41	571.35
	OCT	571.18	571.12	571.07	NOV	571.00	571.07	571.11	DEC	571.18	571.24	571.26
1952	JAN	571.49	571.60	571.81	FEB	572.32	572.44	572.42	MAR	572.33	572.44	572.61
	APR	572.73	572.87	572.98	MAY	572.94	572.90	572.94	JUN	572.99	572.93	572.83
	JUL	572.72	572.64	572.60	AUG	572.39	572.35	572.33	SEP	572.20	572.13	572.07
	OCT	571.79	571.62	571.45	NOV	571.14	571.09	571.10	DEC	571.15	571.18	571.21
1953	JAN	571.25	571.28	571.35	FEB	571.41	571.37	571.34	MAR	571.45	571.53	571.61
	APR	571.78	571.81	571.82	MAY	571.90	571.93	572.02	JUN	572.24	572.25	572.20
	JUL	572.13	572.06	571.99	AUG	571.94	571.90	571.78	SEP	571.62	571.46	571.33
	OCT	571.12	571.03	570.99	NOV	570.76	570.71	570.67	DEC	570.63	570.61	570.58
1954	JAN	570.53	570.50	570.42	FEB	570.29	570.23	570.39	MAR	570.71	570.80	570.87
	APR	571.37	571.56	571.83	MAY	572.05	572.00	571.93	JUN	571.82	571.82	571.80
	JUL	571.70	571.65	571.57	AUG	571.46	571.39	571.37	SEP	571.27	571.20	571.09
	OCT	571.05	571.22	571.50	NOV	571.55	571.49	571.48	DEC	571.42	571.41	571.40
1955	JAN	571.66	571.81	571.72	FEB	571.48	571.41	571.41	MAR	571.77	571.97	572.10
	APR	572.16	572.18	572.28	MAY	572.37	572.26	572.19	JUN	572.14	572.09	572.03
	JUL	571.89	571.81	571.72	AUG	571.63	571.62	571.57	SEP	571.31	571.19	571.08
	OCT	570.92	570.96	570.93	NOV	570.68	570.61	570.61	DEC	570.61	570.59	570.52

YEAR	QUARTER 4			
1949	MAR	570.82		
	JUN	570.94		
	SEP	569.99		
	DEC	569.64		
1950	MAR	571.18		
	JUN	571.66		
	SEP	570.72		
	DEC	570.83		
1951	MAR	571.72		
	JUN	572.20		
	SEP	571.24		
	DEC	571.32		
1952	MAR	572.68		
	JUN	572.76		
	SEP	571.96		
	DEC	571.23		
1953	MAR	571.71		
	JUN	572.15		
	SEP	571.24		
	DEC	570.50		
1954	MAR	571.18		
	JUN	571.76		
	SEP	571.03		
	DEC	571.43		
1955	MAR	572.16		
	JUN	571.94		
	SEP	570.97		
	DEC	570.49		

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
	1	2	3	4	1	2	3	4	1	2	3	4
1956	JAN 570.49	570.37	570.06	569.79	FEB 569.67	569.62	569.62	569.70	MAR 569.96	570.24	570.36	570.48
	APR 570.68	570.83	570.88	571.02	MAY 571.27	571.64	571.90	571.90	JUN 571.90	571.87	571.85	571.83
	JUL 571.78	571.78	571.78	571.72	AUG 571.70	571.73	571.66	571.62	SEP 571.59	571.47	571.31	571.14
	OCT 570.99	570.88	570.80	570.73	NOV 570.61	570.44	570.31	570.23	DEC 570.25	570.33	570.35	570.32
1957	JAN 570.27	570.17	570.12	570.12	FEB 570.07	570.09	570.12	570.17	MAR 570.24	570.27	570.31	570.35
	APR 570.58	570.92	571.09	571.21	MAY 571.23	571.21	571.31	571.35	JUN 571.31	571.30	571.30	571.38
	JUL 571.50	571.59	571.58	571.47	AUG 571.33	571.22	571.09	570.97	SEP 570.84	570.79	570.82	570.73
	OCT 570.54	570.39	570.32	570.27	NOV 570.14	570.08	570.07	570.06	DEC 570.10	570.14	570.26	570.43
1958	JAN 570.46	570.39	570.28	570.12	FEB 569.92	569.79	569.69	569.66	MAR 569.72	569.78	569.81	569.84
	APR 569.91	569.97	570.02	570.06	MAY 570.09	570.12	570.13	570.11	JUN 570.14	570.20	570.25	570.28
	JUL 570.35	570.45	570.50	570.45	AUG 570.44	570.48	570.43	570.30	SEP 570.22	570.16	570.15	570.12
	OCT 569.95	569.79	569.73	569.67	NOV 569.52	569.44	569.50	569.46	DEC 569.35	569.25	569.21	569.19
1959	JAN 569.10	568.99	569.11	569.27	FEB 569.31	569.42	569.57	569.63	MAR 569.70	569.80	569.90	570.06
	APR 570.29	570.44	570.43	570.54	MAY 570.68	570.74	570.79	570.82	JUN 570.82	570.74	570.63	570.59
	JUL 570.55	570.46	570.40	570.35	AUG 570.28	570.17	570.12	570.14	SEP 570.08	569.92	569.73	569.68
	OCT 569.83	569.85	569.73	569.68	NOV 569.66	569.68	569.69	569.68	DEC 569.68	569.82	570.02	570.11
1960	JAN 570.13	570.22	570.35	570.36	FEB 570.31	570.34	570.40	570.40	MAR 570.36	570.30	570.27	570.37
	APR 570.61	570.79	570.88	570.96	MAY 571.01	571.10	571.21	571.27	JUN 571.30	571.41	571.52	571.54
	JUL 571.53	571.50	571.47	571.45	AUG 571.43	571.40	571.37	571.31	SEP 571.24	571.10	570.99	570.91
	OCT 570.75	570.63	570.51	570.36	NOV 570.24	570.16	570.15	570.14	DEC 570.06	569.91	569.82	569.82
1961	JAN 569.81	569.79	569.75	569.66	FEB 569.60	569.60	569.69	569.90	MAR 570.14	570.31	570.45	570.53
	APR 570.58	570.72	570.96	571.35	MAY 571.62	571.64	571.61	571.55	JUN 571.54	571.56	571.53	571.49
	JUL 571.40	571.33	571.31	571.32	AUG 571.33	571.25	571.16	571.12	SEP 571.11	571.02	570.87	570.74
	OCT 570.60	570.45	570.35	570.22	NOV 570.07	569.99	570.00	569.97	DEC 569.92	569.88	569.86	569.79
1962	JAN 569.66	569.59	569.56	569.57	FEB 569.59	569.53	569.49	569.53	MAR 569.58	569.71	569.92	570.10
	APR 570.20	570.26	570.28	570.30	MAY 570.34	570.35	570.34	570.34	JUN 570.35	570.41	570.45	570.44
	JUL 570.38	570.32	570.31	570.27	AUG 570.25	570.22	570.12	570.07	SEP 569.98	569.90	569.80	569.76
	OCT 569.80	569.80	569.74	569.61	NOV 569.54	569.51	569.60	569.51	DEC 569.53	569.51	569.43	569.36

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
		1	2	3		1	2	3		1	2	3
1963	JAN	569.30	569.23	569.12	FEB	568.94	568.87	568.82	MAR	568.75	568.98	569.27
	APR	569.75	569.78	569.84	MAY	570.00	569.99	569.98	JUN	569.98	569.99	569.95
	JUL	569.79	569.72	569.74	AUG	569.69	569.65	569.62	SEP	569.46	569.38	569.28
	OCT	569.06	568.99	568.96	NOV	568.81	568.74	568.71	DEC	568.62	568.56	568.51
1964	JAN	568.47	568.48	568.45	FEB	568.40	568.40	568.39	MAR	568.40	568.62	568.78
	APR	569.11	569.26	569.33	MAY	569.61	569.64	569.65	JUN	569.59	569.60	569.60
	JUL	569.51	569.48	569.47	AUG	569.31	569.25	569.23	SEP	569.20	569.06	568.96
	OCT	568.73	568.58	568.48	NOV	568.41	568.35	568.27	DEC	568.24	568.25	568.26
1965	JAN	568.44	568.51	568.53	FEB	568.48	568.60	568.77	MAR	569.01	569.22	569.30
	APR	569.40	569.52	569.65	MAY	569.81	569.85	569.82	JUN	569.86	569.84	569.79
	JUL	569.75	569.71	569.63	AUG	569.55	569.53	569.49	SEP	569.39	569.38	569.38
	OCT	569.21	569.14	569.20	NOV	569.10	569.10	569.11	DEC	569.09	569.17	569.26
1966	JAN	569.46	569.48	569.42	FEB	569.32	569.42	569.52	MAR	569.63	569.76	569.85
	APR	570.02	570.05	570.11	MAY	570.37	570.42	570.50	JUN	570.44	570.51	570.58
	JUL	570.48	570.47	570.42	AUG	570.29	570.27	570.25	SEP	570.12	570.00	569.88
	OCT	569.58	569.44	569.37	NOV	569.30	569.43	569.46	DEC	569.62	569.93	570.11
1967	JAN	569.98	569.94	569.90	FEB	570.04	570.00	569.95	MAR	569.89	569.96	570.08
	APR	570.40	570.56	570.65	MAY	570.79	570.95	571.01	JUN	570.90	570.89	570.91
	JUL	570.96	570.95	570.92	AUG	570.85	570.78	570.68	SEP	570.52	570.39	570.31
	OCT	570.26	570.22	570.21	NOV	570.15	570.16	570.19	DEC	570.22	570.30	570.45
1968	JAN	570.51	570.50	570.49	FEB	570.86	570.96	570.86	MAR	570.73	570.71	570.84
	APR	571.13	571.17	571.16	MAY	571.06	571.09	571.17	JUN	571.40	571.38	571.31
	JUL	571.50	571.45	571.41	AUG	571.35	571.31	571.26	SEP	571.07	571.02	570.95
	OCT	570.71	570.63	570.55	NOV	570.42	570.36	570.36	DEC	570.62	570.63	570.54
1969	JAN	570.72	570.63	570.66	FEB	571.06	571.14	571.09	MAR	570.98	570.91	570.91
	APR	571.24	571.43	571.64	MAY	571.82	571.90	572.15	JUN	572.30	572.32	572.34
	JUL	572.42	572.51	572.53	AUG	572.44	572.31	572.21	SEP	571.93	571.76	571.60
	OCT	571.41	571.31	571.19	NOV	570.96	570.89	570.89	DEC	570.95	571.00	571.00

YEAR	QUARTER 4				QUARTER 4				QUARTER 4			
		4				4				4		
1963	JAN	569.02	FEB	568.73	MAR	569.55						
	APR	569.97	MAY	569.98	JUN	569.88						
	JUL	569.74	AUG	569.53	SEP	569.18						
	OCT	568.89	NOV	568.68	DEC	568.47						
1964	JAN	568.40	FEB	568.35	MAR	568.91						
	APR	569.51	MAY	569.60	JUN	569.57						
	JUL	569.39	AUG	569.26	SEP	568.88						
	OCT	568.45	NOV	568.22	DEC	568.32						
1965	JAN	568.52	FEB	568.84	MAR	569.33						
	APR	569.73	MAY	569.83	JUN	569.76						
	JUL	569.58	AUG	569.44	SEP	569.32						
	OCT	569.17	NOV	569.09	DEC	569.36						
1966	JAN	569.36	FEB	569.54	MAR	569.95						
	APR	570.28	MAY	570.48	JUN	570.55						
	JUL	570.35	AUG	570.20	SEP	569.77						
	OCT	569.27	NOV	569.46	DEC	569.97						
1967	JAN	569.95	FEB	569.93	MAR	570.21						
	APR	570.70	MAY	570.95	JUN	570.96						
	JUL	570.87	AUG	570.59	SEP	570.29						
	OCT	570.18	NOV	570.19	DEC	570.35						
1968	JAN	570.59	FEB	570.79	MAR	571.01						
	APR	571.13	MAY	571.31	JUN	571.39						
	JUL	571.37	AUG	571.18	SEP	570.93						
	OCT	570.47	NOV	570.48	DEC	570.64						
1969	JAN	570.85	FEB	571.04	MAR	571.00						
	APR	571.82	MAY	572.29	JUN	572.33						
	JUL	572.54	AUG	572.07	SEP	571.52						
	OCT	571.02	NOV	570.95	DEC	570.90						

TABLE C-4 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
	1	2	3	4	1	2	3	4	1	2	3	4
1970	JAN 570.70	570.51	570.42	570.34	FEB 570.37	570.43	570.39	570.35	MAR 570.43	570.51	570.57	570.68
	APR 570.84	571.01	571.11	571.22	MAY 571.26	571.30	571.40	571.46	JUN 571.47	571.49	571.52	571.53
	JUL 571.51	571.53	571.60	571.62	AUG 571.57	571.45	571.34	571.25	SEP 571.17	571.13	571.16	571.16
	OCT 571.07	571.06	571.06	571.02	NOV 571.03	571.00	570.89	570.89	DEC 570.95	571.01	571.07	571.07
1971	JAN 571.04	570.99	570.91	570.79	FEB 570.76	570.79	570.91	571.12	MAR 571.30	571.39	571.46	571.53
	APR 571.56	571.59	571.62	571.62	MAY 571.64	571.65	571.66	571.72	JUN 571.79	571.84	571.83	571.81
	JUL 571.77	571.68	571.60	571.58	AUG 571.55	571.50	571.46	571.47	SEP 571.53	571.52	571.47	571.45
	OCT 571.56	571.64	571.61	571.53	NOV 571.33	571.18	571.15	571.11	DEC 571.09	571.08	571.12	571.27
1972	JAN 571.32	571.23	571.20	571.16	FEB 571.11	571.10	571.10	571.14	MAR 571.25	571.41	571.57	571.68
	APR 571.69	571.77	572.03	572.22	MAY 572.28	572.34	572.37	572.36	JUN 572.33	572.30	572.44	572.56
	JUL 572.50	572.48	572.51	572.46	AUG 572.36	572.30	572.28	572.26	SEP 572.18	572.10	572.07	572.16
	OCT 572.18	572.06	571.93	571.90	NOV 571.99	572.15	572.22	572.20	DEC 572.27	572.37	572.45	572.48
1973	JAN 572.52	572.50	572.44	572.50	FEB 572.57	572.54	572.44	572.33	MAR 572.34	572.60	572.96	573.18
	APR 573.31	573.33	573.27	573.30	MAY 573.33	573.32	573.32	573.36	JUN 573.51	573.64	573.64	573.63
	JUL 573.65	573.58	573.40	573.35	AUG 573.32	573.23	573.16	573.08	SEP 572.98	572.82	572.62	572.54
	OCT 572.54	572.47	572.31	572.22	NOV 572.15	572.09	572.08	572.08	DEC 572.12	572.15	572.12	572.17
1974	JAN 572.24	572.17	572.25	572.46	FEB 572.61	572.64	572.61	572.66	MAR 572.91	573.13	573.16	573.18
	APR 573.33	573.45	573.42	573.36	MAY 573.35	573.42	573.52	573.55	JUN 573.51	573.47	573.47	573.45
	JUL 573.40	573.33	573.21	573.09	AUG 573.00	572.94	572.87	572.76	SEP 572.63	572.50	572.38	572.35
	OCT 572.21	572.08	572.01	571.91	NOV 571.95	571.92	571.92	572.04	DEC 572.11	572.11	572.12	572.18
1975	JAN 572.23	572.27	572.27	572.36	FEB 572.40	572.34	572.36	572.56	MAR 572.76	572.78	572.82	572.87
	APR 572.86	572.82	572.83	572.89	MAY 572.93	572.91	572.88	572.89	JUN 572.95	573.00	573.03	573.02
	JUL 572.97	572.87	572.79	572.70	AUG 572.63	572.60	572.58	572.74	SEP 572.84	572.69	572.63	572.57
	OCT 572.48	572.35	572.29	572.21	NOV 572.12	572.07	571.99	571.92	DEC 571.93	572.02	572.09	572.07
1976	JAN 572.01	571.95	571.94	571.88	FEB 571.77	571.72	572.04	572.47	MAR 572.86	573.12	573.14	573.16
	APR 573.18	573.14	573.11	573.17	MAY 573.22	573.23	573.22	573.22	JUN 573.16	573.08	573.04	573.09
	JUL 573.08	573.06	573.06	573.02	AUG 572.95	572.85	572.78	572.62	SEP 572.44	572.35	572.29	572.23
	OCT 572.19	572.03	571.82	571.76	NOV 571.66	571.51	571.35	571.21	DEC 571.17	571.14	571.06	570.95

TABLE C-5

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	[illegible].60	569.68	570.06	570.45	570.65	570.67	570.65	570.65	570.40	570.19	570.03	570.08
1901	[illegible].98	569.64	569.55	569.91	569.94	570.35	570.53	570.43	570.38	570.07	569.92	569.91
1902	[illegible].88	569.46	569.71	570.27	570.57	570.82	571.43	571.46	571.06	571.05	570.69	570.48
1903	570.42	570.46	570.96	571.66	571.66	571.62	571.58	571.36	571.22	570.90	570.49	570.26
1904	570.13	570.24	570.78	571.82	572.02	572.18	572.09	571.78	571.52	571.17	570.82	570.55
1905	570.29	569.99	569.95	570.61	571.18	571.68	571.74	571.60	571.37	571.08	570.77	570.76
1906	570.83	570.83	570.60	570.98	571.20	571.36	571.43	571.40	571.12	570.94	570.85	571.13
1907	571.50	571.19	570.97	571.34	571.49	571.85	571.89	571.64	571.40	571.32	571.08	570.97
1908	571.25	570.97	571.39	571.93	572.15	572.16	571.97	571.80	571.37	570.97	570.41	570.16
1909	570.15	570.20	570.49	570.76	571.55	571.86	571.68	571.45	571.04	570.51	570.35	570.22
1910	570.04	569.92	570.35	570.76	571.23	571.27	571.10	570.97	570.72	570.55	570.20	570.06
1911	569.79	569.75	569.71	570.17	570.42	570.50	570.35	570.20	570.10	570.07	569.83	570.13
1912	570.07	569.83	569.91	570.88	571.22	571.34	571.24	571.20	571.20	570.94	570.74	570.42
1913	571.06	571.30	571.24	572.71	572.61	572.43	572.17	571.83	571.35	571.02	570.90	570.89
1914	570.80	570.54	570.33	570.99	571.67	571.79	571.60	571.37	571.17	570.88	570.38	570.20
1915	570.00	570.12	570.19	570.18	570.36	570.53	570.73	570.99	570.93	570.74	570.33	570.21
1916	570.69	570.96	570.82	571.35	571.77	572.19	572.17	571.79	571.33	570.96	570.74	570.68
1917	570.76	570.49	570.65	571.60	571.93	572.44	572.76	572.47	572.16	571.81	571.83	571.47
1918	570.78	570.48	571.02	570.93	570.87	571.24	571.34	571.31	571.21	571.05	570.88	570.96
1919	570.95	570.98	571.22	571.80	572.37	572.49	572.21	571.93	571.58	571.28	571.07	570.73
1920	570.21	569.63	569.67	570.46	571.07	571.23	571.39	571.35	571.12	570.83	570.74	570.77
1921	570.80	570.72	570.86	571.50	571.77	571.68	571.54	571.20	570.92	570.58	570.53	570.61
1922	570.35	570.05	570.19	571.14	571.52	571.63	571.51	571.29	571.12	570.69	570.24	569.98
1923	570.04	569.70	569.83	570.29	570.63	570.86	570.81	570.52	570.29	569.99	569.74	569.99
1924	570.17	570.11	569.94	570.48	570.84	571.00	571.11	570.83	570.56	570.36	569.84	569.63
1925	569.46	569.29	569.67	570.00	569.98	569.83	569.77	569.72	569.56	569.24	569.13	569.08
1926	568.70	568.46	568.50	569.35	569.54	569.64	569.64	569.74	569.83	570.12	570.07	570.06
1927	569.71	569.52	569.70	570.25	570.51	570.77	570.75	570.62	570.31	570.02	569.90	570.56
1928	570.70	570.57	570.27	570.58	570.75	571.12	571.45	571.37	570.95	570.71	570.69	570.83
1929	570.93	571.00	571.45	572.39	573.03	572.99	572.92	572.56	572.15	571.75	571.66	571.65
1930	572.26	572.04	572.31	572.53	572.47	572.31	572.11	571.72	571.38	571.04	570.68	570.54
1931	570.33	569.98	569.65	570.00	570.32	570.48	570.51	570.33	570.06	569.82	569.62	569.66
1932	570.21	570.60	570.47	570.52	570.74	570.75	570.64	570.40	570.07	569.65	569.56	569.47
1933	569.79	569.75	569.88	570.46	570.85	570.85	570.61	570.31	569.91	569.58	569.18	569.14

TABLE C-5 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	569.00	568.62	568.54	569.07	569.31	569.34	569.33	569.23	569.08	568.80	568.53	568.53
1935	568.61	568.45	568.72	569.08	569.41	569.62	569.71	569.74	569.37	569.04	568.94	568.89
1936	568.48	568.10	568.63	569.45	569.68	569.65	569.57	569.34	569.19	569.10	568.94	568.76
1937	569.38	569.99	569.86	570.18	570.73	570.86	571.11	570.88	570.31	569.79	569.48	569.28
1938	569.30	569.57	570.04	570.63	570.71	570.83	570.84	570.79	570.46	570.13	569.83	569.70
1939	569.62	569.56	569.87	570.41	570.72	570.77	570.74	570.62	570.27	569.93	569.71	569.55
1940	569.26	569.01	569.17	569.88	570.31	570.64	570.71	570.53	570.40	570.10	569.78	569.91
1941	570.22	569.81	569.60	569.80	569.94	570.07	570.00	569.81	569.54	569.30	569.22	569.23
1942	569.17	569.27	569.50	570.42	570.71	571.04	571.02	570.96	570.67	570.47	570.38	570.39
1943	570.66	570.40	570.56	571.01	571.83	572.42	572.43	572.18	571.75	571.34	571.10	570.80
1944	570.33	570.13	570.27	571.06	571.59	571.67	571.48	571.18	570.88	570.60	570.33	570.17
1945	569.99	569.70	570.42	571.10	571.45	571.87	571.94	571.69	571.36	571.53	571.22	571.01
1946	570.99	570.53	570.78	570.98	571.10	571.59	571.67	571.31	570.88	570.55	570.32	570.12
1947	570.11	570.10	569.99	571.12	571.88	572.48	572.28	572.04	571.75	571.25	570.91	570.76
1948	570.67	570.37	570.87	571.63	571.99	571.99	571.85	571.48	571.07	570.54	570.33	570.20
1949	570.38	570.68	570.85	570.94	571.00	570.95	570.82	570.52	570.15	569.90	569.54	569.91
1950	570.31	570.94	570.95	571.66	571.69	571.55	571.33	571.03	570.85	570.62	570.48	570.88
1951	570.93	570.96	571.56	572.01	572.22	572.19	572.05	571.75	571.38	571.10	571.07	571.25
1952	571.75	572.39	572.51	572.89	572.94	572.88	572.62	572.33	572.09	571.53	571.11	571.19
1953	571.32	571.37	571.58	571.82	572.00	572.21	572.03	571.83	571.41	571.00	570.71	570.58
1954	570.46	570.38	570.87	571.69	571.96	571.80	571.60	571.39	571.15	571.34	571.50	571.41
1955	571.70	571.46	572.00	572.25	572.25	572.05	571.77	571.57	571.14	570.90	570.63	570.55
1956	570.18	569.65	570.26	570.85	571.68	571.86	571.77	571.68	571.38	570.85	570.40	570.31
1957	570.17	570.11	570.29	570.95	571.27	571.32	571.54	571.15	570.79	570.38	570.09	570.23
1958	570.31	569.77	569.79	569.99	570.11	570.22	570.44	570.41	570.16	569.78	569.48	569.25
1959	569.12	569.48	569.87	570.43	570.76	570.69	570.44	570.18	569.85	569.77	569.67	569.91
1960	570.27	570.36	570.33	570.81	571.15	571.44	571.49	571.38	571.06	570.56	570.17	569.90
1961	569.75	569.70	570.36	570.90	571.60	571.53	571.34	571.22	570.93	570.40	570.01	569.87
1962	569.59	569.53	569.83	570.26	570.34	570.41	570.32	570.17	569.86	569.73	569.56	569.46
1963	569.17	568.84	569.13	569.83	569.99	569.95	569.75	569.62	569.32	568.98	568.73	568.54
1964	568.45	568.38	568.68	569.30	569.63	569.59	569.46	569.26	569.02	568.56	568.32	568.27
1965	568.50	568.67	569.22	569.57	569.83	569.81	569.67	569.50	569.37	569.18	569.10	569.22
1966	569.42	569.45	569.80	570.12	570.44	570.52	570.43	570.25	569.94	569.41	569.41	569.93
1967	569.94	569.98	570.03	570.57	570.92	570.92	570.93	570.72	570.38	570.22	570.17	570.38

TABLE C-5 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	570.52	570.87	570.82	571.15	571.16	571.37	571.43	571.28	570.97	570.59	570.40	570.61
1969	570.72	571.08	570.95	571.53	572.04	572.32	572.50	572.26	571.70	571.23	570.92	570.96
1970	570.49	570.39	570.55	571.05	571.36	571.50	571.56	571.40	571.15	571.05	570.95	571.03
1971	570.93	570.89	571.42	571.60	571.67	571.82	571.66	571.50	571.49	571.58	571.19	571.14
1972	571.22	571.11	571.48	571.93	572.34	572.41	572.49	572.30	572.13	572.02	572.14	572.39
1973	572.49	572.47	572.77	573.30	573.33	573.60	573.49	573.20	572.74	572.38	572.10	572.14
1974	572.28	572.63	573.09	573.39	573.46	573.48	573.26	572.89	572.46	572.05	571.96	572.13
1975	572.28	572.41	572.81	572.85	572.90	573.00	572.83	572.64	572.68	572.33	572.03	572.02
1976	571.95	572.00	573.07	573.15	573.22	573.09	573.06	572.80	572.32	571.95	571.43	571.08

TABLE C-6

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1900	JAN 244.26	244.31	244.33	244.28	FEB 244.24	244.33	244.44	244.52	MAR 244.55	244.53	244.47	244.51
	APR 244.79	245.14	245.40	245.52	MAY 245.57	245.56	245.57	245.57	JUN 245.62	245.75	245.83	245.85
	JUL 245.85	245.93	246.01	246.03	AUG 246.03	246.08	246.07	245.98	SEP 245.91	245.74	245.53	245.42
	OCT 245.29	245.13	244.95	244.79	NOV 244.68	244.51	244.42	244.57	DEC 244.67	244.66	244.59	244.40
1901	JAN 244.23	244.22	244.23	244.19	FEB 244.18	244.05	243.87	243.78	MAR 243.72	243.72	243.88	244.23
	APR 244.69	245.00	245.30	245.62	MAY 245.70	245.65	245.61	245.61	JUN 245.70	245.75	245.77	245.76
	JUL 245.69	245.60	245.49	245.40	AUG 245.35	245.27	245.17	245.11	SEP 245.03	244.92	244.78	244.64
	OCT 244.47	244.26	244.13	244.01	NOV 243.85	243.73	243.68	243.62	DEC 243.56	243.64	243.86	243.99
1902	JAN 243.93	243.87	243.89	243.93	FEB 243.86	243.76	243.69	243.64	MAR 243.85	244.22	244.51	244.67
	APR 244.77	244.89	244.92	244.92	MAY 244.96	245.02	245.08	245.17	JUN 245.29	245.39	245.53	245.74
	JUL 246.06	246.30	246.38	246.42	AUG 246.41	246.30	246.10	245.91	SEP 245.69	245.45	245.24	245.04
	OCT 244.89	244.70	244.48	244.29	NOV 244.14	244.05	243.95	243.84	DEC 243.71	243.62	243.59	243.57
1903	JAN 243.60	243.57	243.57	243.59	FEB 243.68	243.85	243.84	243.86	MAR 244.03	244.37	244.77	245.00
	APR 245.27	245.55	245.58	245.58	MAY 245.54	245.46	245.39	245.31	JUN 245.22	245.22	245.30	245.39
	JUL 245.50	245.52	245.50	245.54	AUG 245.58	245.50	245.34	245.22	SEP 245.16	245.07	244.85	244.58
	OCT 244.42	244.37	244.31	244.16	NOV 243.95	243.76	243.63	243.56	DEC 243.49	243.38	243.29	243.24
1904	JAN 243.16	243.07	243.04	243.09	FEB 243.21	243.32	243.43	243.57	MAR 243.68	243.79	243.99	244.41
	APR 244.93	245.28	245.54	245.73	MAY 245.90	246.01	246.10	246.22	JUN 246.34	246.40	246.38	246.35
	JUL 246.33	246.32	246.27	246.17	AUG 246.02	245.84	245.74	245.61	SEP 245.45	245.25	244.96	244.75
	OCT 244.65	244.54	244.37	244.20	NOV 244.03	243.78	243.59	243.45	DEC 243.32	243.27	243.26	243.21
1905	JAN 243.27	243.33	243.27	243.25	FEB 243.18	243.04	242.98	242.99	MAR 243.02	243.05	243.12	243.38
	APR 243.84	244.25	244.46	244.58	MAY 244.80	245.03	245.13	245.24	JUN 245.40	245.57	245.75	245.85
	JUL 245.93	245.97	245.91	245.85	AUG 245.79	245.79	245.72	245.55	SEP 245.39	245.24	245.01	244.71
	OCT 244.54	244.46	244.29	244.11	NOV 243.95	243.77	243.68	243.64	DEC 243.62	243.64	243.63	243.66
1906	JAN 243.81	243.95	244.05	244.19	FEB 244.27	244.24	244.15	244.08	MAR 244.04	243.99	243.93	243.94
	APR 244.06	244.25	244.40	244.45	MAY 244.52	244.61	244.73	244.81	JUN 244.94	245.10	245.22	245.38
	JUL 245.49	245.53	245.56	245.55	AUG 245.49	245.40	245.25	245.06	SEP 244.87	244.73	244.61	244.43
	OCT 244.31	244.24	244.21	244.22	NOV 244.19	244.10	244.02	243.95	DEC 243.86	243.80	243.74	243.70

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		1	2	3	4	1	2	3	4	1	2	3	4
1907	JAN	243.90	244.22	244.40	244.54	FEB	244.54	244.45	244.35	244.27	MAR	244.18	244.10	244.11	244.31
	APR	244.50	244.55	244.59	244.68	MAY	244.82	244.95	245.02	245.13	JUN	245.27	245.36	245.41	245.48
	JUL	245.51	245.53	245.56	245.58	AUG	245.55	245.49	245.37	245.21	SEP	245.06	244.90	244.77	244.69
	OCT	244.64	244.55	244.39	244.26	NOV	244.25	244.17	244.08	244.03	DEC	243.89	243.77	243.77	243.92
1908	JAN	244.13	244.28	244.38	244.44	FEB	244.42	244.37	244.42	244.50	MAR	244.52	244.54	244.69	244.95
	APR	245.21	245.37	245.47	245.55	MAY	245.72	245.97	246.17	246.23	JUN	246.19	246.16	246.16	246.15
	JUL	246.05	245.94	245.90	245.83	AUG	245.73	245.62	245.41	245.13	SEP	244.86	244.63	244.46	244.32
	OCT	244.17	243.98	243.85	243.78	NOV	243.65	243.51	243.41	243.34	DEC	243.30	243.18	243.08	243.02
1909	JAN	243.00	243.03	243.05	243.10	FEB	243.18	243.24	243.32	243.47	MAR	243.67	243.72	243.72	243.80
	APR	243.97	244.26	244.57	244.86	MAY	245.18	245.51	245.78	245.88	JUN	245.88	245.86	245.78	245.71
	JUL	245.65	245.60	245.57	245.54	AUG	245.43	245.29	245.15	245.02	SEP	244.84	244.62	244.51	244.37
	OCT	244.17	243.99	243.85	243.73	NOV	243.65	243.59	243.54	243.54	DEC	243.54	243.49	243.43	243.43
1910	JAN	243.45	243.43	243.41	243.46	FEB	243.52	243.56	243.58	243.60	MAR	243.82	244.09	244.24	244.33
	APR	244.46	244.57	244.64	244.84	MAY	245.11	245.28	245.33	245.41	JUN	245.47	245.50	245.54	245.52
	JUL	245.47	245.45	245.43	245.39	AUG	245.35	245.28	245.23	245.17	SEP	245.09	244.98	244.78	244.63
	OCT	244.56	244.45	244.29	244.11	NOV	243.93	243.82	243.70	243.62	DEC	243.60	243.54	243.47	243.40
1911	JAN	243.36	243.37	243.35	243.35	FEB	243.38	243.42	243.49	243.54	MAR	243.51	243.52	243.61	243.72
	APR	243.91	244.14	244.41	244.64	MAY	244.84	245.02	245.13	245.23	JUN	245.35	245.48	245.58	245.66
	JUL	245.70	245.70	245.70	245.63	AUG	245.54	245.49	245.41	245.30	SEP	245.24	245.20	245.13	245.05
	OCT	245.00	244.94	244.87	244.79	NOV	244.68	244.57	244.45	244.35	DEC	244.27	244.25	244.34	244.36
1912	JAN	244.34	244.32	244.28	244.26	FEB	244.22	244.10	244.04	244.05	MAR	244.00	243.93	243.98	244.14
	APR	244.42	244.81	245.19	245.50	MAY	245.65	245.73	245.93	246.20	JUN	246.39	246.45	246.46	246.42
	JUL	246.30	246.17	246.06	245.92	AUG	245.73	245.57	245.47	245.34	SEP	245.18	245.06	244.99	244.91
	OCT	244.78	244.65	244.54	244.40	NOV	244.28	244.23	244.15	244.06	DEC	243.98	243.88	243.84	243.86
1913	JAN	243.97	244.19	244.55	244.97	FEB	245.14	244.98	244.77	244.69	MAR	244.60	244.56	244.70	245.12
	APR	245.60	245.81	245.90	245.96	MAY	246.02	246.04	246.06	246.10	JUN	246.14	246.13	246.02	245.94
	JUL	245.89	245.82	245.72	245.56	AUG	245.46	245.36	245.24	245.12	SEP	244.96	244.75	244.58	244.46
	OCT	244.32	244.18	244.07	243.99	NOV	243.92	243.86	243.83	243.79	DEC	243.72	243.64	243.59	243.60

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1				QUARTER 2				QUARTER 3				QUARTER 4			
1914	JAN	243.58	243.54	243.55	FEB	243.76	243.80	243.75	243.62	MAR	243.56	243.59	243.63	243.89
	APR	244.33	244.62	244.85	MAY	245.20	245.37	245.46	245.49	JUN	245.52	245.55	245.55	245.51
	JUL	245.47	245.43	245.37	AUG	245.13	245.08	245.07	245.03	SEP	244.97	244.89	244.79	244.63
	OCT	244.43	244.30	244.18	NOV	243.83	243.71	243.59	243.50	DEC	243.46	243.35	243.22	243.17
1915	JAN	243.17	243.19	243.27	FEB	243.48	243.55	243.63	243.80	MAR	243.94	243.95	243.92	243.91
	APR	243.94	244.04	244.18	MAY	244.43	244.56	244.68	244.78	JUN	244.87	244.93	244.97	245.02
	JUL	245.07	245.11	245.13	AUG	245.32	245.52	245.61	245.59	SEP	245.44	245.32	245.21	245.06
	OCT	244.91	244.75	244.60	NOV	244.17	243.96	243.81	243.69	DEC	243.59	243.52	243.49	243.54
1916	JAN	243.70	243.86	243.96	FEB	244.16	244.15	244.10	244.05	MAR	244.05	244.03	243.98	244.10
	APR	244.49	244.83	245.05	MAY	245.40	245.53	245.76	245.96	JUN	246.19	246.42	246.56	246.69
	JUL	246.71	246.65	246.52	AUG	246.01	245.79	245.53	245.23	SEP	244.98	244.77	244.55	244.35
	OCT	244.15	244.00	243.91	NOV	243.68	243.64	243.61	243.53	DEC	243.47	243.45	243.48	243.48
1917	JAN	243.50	243.54	243.54	FEB	243.54	243.57	243.60	243.65	MAR	243.69	243.82	244.04	244.34
	APR	244.74	245.11	245.29	MAY	245.37	245.34	245.33	245.38	JUN	245.51	245.71	245.88	245.99
	JUL	246.07	246.16	246.22	AUG	246.07	245.88	245.67	245.48	SEP	245.34	245.12	244.88	244.71
	OCT	244.56	244.40	244.25	NOV	244.31	244.16	244.04	243.92	DEC	243.84	243.80	243.74	243.67
1918	JAN	243.60	243.57	243.54	FEB	243.39	243.41	243.56	243.75	MAR	243.89	244.04	244.26	244.47
	APR	244.63	244.77	244.84	MAY	244.84	244.84	244.88	244.89	JUN	244.93	244.99	245.02	245.06
	JUL	245.12	245.17	245.15	AUG	245.01	245.00	244.93	244.78	SEP	244.75	244.75	244.67	244.55
	OCT	244.44	244.37	244.31	NOV	244.28	244.15	244.03	243.90	DEC	243.76	243.73	243.78	243.83
1919	JAN	243.91	243.98	244.01	FEB	244.06	244.04	244.00	243.95	MAR	243.93	243.98	244.13	244.25
	APR	244.35	244.52	244.71	MAY	245.14	245.35	245.67	246.01	JUN	246.18	246.22	246.15	246.07
	JUL	246.01	245.93	245.81	AUG	245.45	245.25	245.16	245.03	SEP	244.84	244.65	244.50	244.36
	OCT	244.23	244.10	243.99	NOV	243.88	243.81	243.68	243.58	DEC	243.54	243.49	243.46	243.48
1920	JAN	243.42	243.36	243.31	FEB	243.23	243.21	243.22	243.15	MAR	243.06	243.16	243.45	243.74
	APR	243.97	244.10	244.23	MAY	244.68	244.84	244.96	245.03	JUN	245.09	245.17	245.26	245.36
	JUL	245.45	245.57	245.68	AUG	245.78	245.74	245.68	245.57	SEP	245.45	245.33	245.16	244.96
	OCT	244.83	244.71	244.57	NOV	244.33	244.14	244.00	243.98	DEC	244.01	244.04	244.08	244.13

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1921	JAN	244.21	244.29	244.29	FEB	244.24	244.21	244.16	MAR	244.14	244.29	244.47
	APR	244.78	244.85	244.94	MAY	245.10	245.21	245.23	JUN	245.25	245.27	245.30
	JUL	245.26	245.26	245.23	AUG	245.04	244.95	244.89	SEP	244.68	244.59	244.44
	OCT	244.27	244.24	244.19	NOV	243.95	243.93	243.94	DEC	243.85	243.78	243.75
1922	JAN	243.69	243.72	243.68	FEB	243.62	243.71	243.70	MAR	243.88	244.03	244.17
	APR	244.47	244.86	245.27	MAY	245.56	245.58	245.60	JUN	245.58	245.66	245.78
	JUL	245.95	245.97	245.85	AUG	245.56	245.45	245.24	SEP	244.87	244.75	244.63
	OCT	244.25	244.15	244.02	NOV	243.67	243.61	243.51	DEC	243.25	243.14	243.09
1923	JAN	243.06	243.13	243.14	FEB	243.08	243.10	243.07	MAR	243.10	243.28	243.47
	APR	243.87	244.21	244.41	MAY	244.72	244.90	245.16	JUN	245.60	245.83	245.92
	JUL	245.97	245.96	245.89	AUG	245.69	245.64	245.57	SEP	245.34	245.23	245.10
	OCT	244.84	244.70	244.57	NOV	244.46	244.37	244.27	DEC	244.31	244.36	244.30
1924	JAN	244.21	244.30	244.38	FEB	244.38	244.36	244.34	MAR	244.15	244.18	244.18
	APR	244.45	244.64	244.87	MAY	245.23	245.48	245.72	JUN	245.86	245.84	245.82
	JUL	245.79	245.75	245.71	AUG	245.60	245.53	245.41	SEP	245.06	244.88	244.71
	OCT	244.67	244.53	244.35	NOV	243.92	243.78	243.64	DEC	243.33	243.29	243.20
1925	JAN	243.01	242.97	242.84	FEB	242.71	242.79	242.91	MAR	243.37	243.60	243.85
	APR	244.19	244.25	244.35	MAY	244.44	244.50	244.52	JUN	244.60	244.65	244.63
	JUL	244.62	244.59	244.58	AUG	244.53	244.53	244.42	SEP	244.10	244.17	244.16
	OCT	243.91	243.79	243.66	NOV	243.59	243.64	243.76	DEC	243.74	243.75	243.70
1926	JAN	243.37	243.31	243.29	FEB	243.10	243.06	243.00	MAR	242.88	242.88	242.90
	APR	243.25	243.62	243.96	MAY	244.57	244.76	244.90	JUN	244.99	245.07	245.15
	JUL	245.18	245.16	245.16	AUG	245.07	245.10	245.06	SEP	245.00	244.98	244.96
	OCT	244.99	244.87	244.69	NOV	244.64	244.57	244.61	DEC	244.57	244.45	244.34
1927	JAN	244.13	244.10	244.08	FEB	244.02	243.90	243.83	MAR	243.85	243.88	244.06
	APR	244.36	244.33	244.29	MAY	244.31	244.38	244.54	JUN	244.91	244.99	245.07
	JUL	245.22	245.25	245.34	AUG	245.47	245.36	245.21	SEP	245.03	244.93	244.78
	OCT	244.60	244.57	244.42	NOV	244.13	244.04	244.11	DEC	244.48	244.57	244.68

YEAR	QUARTER 4			
1921	MAR	244.63		
	JUN	245.28		
	SEP	244.33		
	DEC	243.73		
1922	MAR	244.26		
	JUN	245.85		
	SEP	244.44		
	DEC	243.05		
1923	MAR	243.63		
	JUN	245.94		
	SEP	244.97		
	DEC	244.22		
1924	MAR	244.25		
	JUN	245.82		
	SEP	244.67		
	DEC	243.04		
1925	MAR	244.07		
	JUN	244.62		
	SEP	244.02		
	DEC	243.57		
1926	MAR	243.00		
	JUN	245.19		
	SEP	244.97		
	DEC	244.22		
1927	MAR	244.27		
	JUN	245.17		
	SEP	244.64		
	DEC	244.75		

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1928	JAN	244.92	245.17	245.27	FEB	245.34	245.32	245.32	MAR	245.20	245.09	245.09
	APR	245.31	245.47	245.61	MAY	245.72	245.75	245.72	JUN	245.72	245.75	245.78
	JUL	245.98	246.01	246.01	AUG	245.95	245.90	245.79	SEP	245.42	245.19	244.93
	OCT	244.55	244.40	244.35	NOV	244.16	244.06	244.05	DEC	243.96	243.95	243.96
1929	JAN	243.99	243.99	244.21	FEB	244.56	244.54	244.44	MAR	244.34	244.45	244.69
	APR	245.29	245.63	245.85	MAY	246.32	246.55	246.72	JUN	246.80	246.73	246.68
	JUL	246.63	246.58	246.44	AUG	246.24	246.05	245.86	SEP	245.42	245.27	245.10
	OCT	244.75	244.62	244.43	NOV	244.18	244.07	244.01	DEC	243.80	243.70	243.71
1930	JAN	243.81	244.17	244.54	FEB	244.90	245.00	245.05	MAR	245.30	245.54	245.76
	APR	245.93	246.01	246.03	MAY	246.07	246.06	246.08	JUN	246.06	246.01	246.03
	JUL	246.04	246.01	245.94	AUG	245.58	245.36	245.13	SEP	244.83	244.68	244.54
	OCT	244.22	244.05	243.90	NOV	243.56	243.50	243.45	DEC	243.40	243.38	243.32
1931	JAN	243.25	243.27	243.25	FEB	243.14	243.16	243.16	MAR	243.15	243.20	243.25
	APR	243.58	243.78	243.96	MAY	244.26	244.45	244.67	JUN	245.10	245.23	245.27
	JUL	245.28	245.30	245.29	AUG	245.22	245.12	245.04	SEP	244.84	244.79	244.71
	OCT	244.51	244.40	244.31	NOV	244.12	244.05	244.05	DEC	243.94	243.92	243.90
1932	JAN	244.03	244.16	244.36	FEB	244.71	244.74	244.86	MAR	244.89	244.86	244.82
	APR	245.06	245.37	245.56	MAY	245.68	245.75	245.77	JUN	245.74	245.72	245.68
	JUL	245.73	245.80	245.78	AUG	245.78	245.76	245.67	SEP	245.46	245.30	245.16
	OCT	244.93	244.86	244.74	NOV	244.60	244.66	244.68	DEC	244.47	244.35	244.24
1933	JAN	244.35	244.34	244.34	FEB	244.32	244.27	244.25	MAR	244.21	244.27	244.42
	APR	244.81	245.20	245.53	MAY	245.77	245.88	245.94	JUN	245.97	245.97	245.93
	JUL	245.92	245.88	245.82	AUG	245.64	245.55	245.52	SEP	245.40	245.26	245.10
	OCT	244.86	244.71	244.55	NOV	244.24	244.12	244.01	DEC	243.97	243.93	243.87
1934	JAN	243.84	243.89	243.85	FEB	243.79	243.74	243.65	MAR	243.45	243.54	243.53
	APR	243.78	244.05	244.33	MAY	244.68	244.77	244.84	JUN	244.85	244.89	245.00
	JUL	245.07	245.05	245.00	AUG	244.81	244.70	244.60	SEP	244.26	244.28	244.31
	OCT	244.20	244.03	243.91	NOV	243.67	243.56	243.50	DEC	243.45	243.28	243.14

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1935	JAN 243.00	243.05	243.14	243.07	FEB 242.95	242.88	242.84	242.81	MAR 242.77	242.81	242.91	243.03
	APR 243.12	243.19	243.28	243.37	MAY 243.52	243.72	243.81	243.91	JUN 244.05	244.13	244.32	244.52
	JUL 244.58	244.67	244.73	244.68	AUG 244.60	244.54	244.47	244.31	SEP 244.17	244.11	244.01	243.88
	OCT 243.75	243.63	243.51	243.42	NOV 243.41	243.39	243.32	243.23	DEC 243.14	243.10	243.08	242.97
1936	JAN 242.83	242.78	242.69	242.53	FEB 242.40	242.30	242.17	242.08	MAR 242.08	242.27	242.76	243.33
	APR 243.81	244.15	244.44	244.67	MAY 244.83	244.99	245.05	245.03	JUN 245.05	245.07	245.06	245.02
	JUL 244.96	244.91	244.83	244.72	AUG 244.59	244.44	244.36	244.30	SEP 244.20	244.13	244.06	243.97
	OCT 243.94	243.85	243.75	243.70	NOV 243.71	243.75	243.64	243.50	DEC 243.42	243.32	243.24	243.21
1937	JAN 243.26	243.41	243.65	243.87	FEB 243.99	244.02	244.04	244.10	MAR 244.15	244.13	244.08	244.03
	APR 244.09	244.27	244.54	244.88	MAY 245.11	245.23	245.41	245.61	JUN 245.71	245.79	245.92	246.03
	JUL 246.05	245.99	245.91	245.82	AUG 245.73	245.66	245.54	245.40	SEP 245.26	245.05	244.83	244.67
	OCT 244.57	244.42	244.33	244.36	NOV 244.32	244.33	244.32	244.19	DEC 244.11	244.00	243.95	243.91
1938	JAN 243.81	243.80	243.80	243.77	FEB 243.87	244.10	244.27	244.33	MAR 244.38	244.39	244.48	244.71
	APR 244.86	244.95	245.05	245.13	MAY 245.14	245.14	245.16	245.20	JUN 245.25	245.32	245.38	245.40
	JUL 245.37	245.38	245.44	245.49	AUG 245.54	245.56	245.55	245.45	SEP 245.30	245.24	245.24	245.21
	OCT 245.05	244.86	244.69	244.47	NOV 244.25	244.09	243.98	243.85	DEC 243.77	243.72	243.61	243.53
1939	JAN 243.50	243.49	243.46	243.43	FEB 243.43	243.42	243.45	243.57	MAR 243.73	243.88	243.96	244.13
	APR 244.43	244.70	245.00	245.25	MAY 245.38	245.43	245.44	245.43	JUN 245.40	245.38	245.37	245.40
	JUL 245.48	245.52	245.46	245.42	AUG 245.43	245.45	245.47	245.39	SEP 245.27	245.13	244.97	244.85
	OCT 244.80	244.73	244.60	244.45	NOV 244.36	244.21	244.05	243.95	DEC 243.88	243.82	243.76	243.66
1940	JAN 243.58	243.55	243.47	243.34	FEB 243.21	243.16	243.12	243.04	MAR 243.04	243.05	243.01	242.98
	APR 243.26	243.77	244.21	244.58	MAY 244.86	245.09	245.28	245.51	JUN 245.67	245.72	245.74	245.76
	JUL 245.77	245.71	245.67	245.66	AUG 245.53	245.37	245.18	244.99	SEP 244.86	244.74	244.63	244.59
	OCT 244.55	244.45	244.30	244.12	NOV 244.05	244.03	243.98	243.96	DEC 243.95	243.93	243.95	244.11
1941	JAN 244.28	244.33	244.31	244.32	FEB 244.32	244.26	244.22	244.12	MAR 244.04	244.04	244.00	243.98
	APR 244.18	244.44	244.66	244.81	MAY 244.90	244.98	245.04	245.10	JUN 245.15	245.16	245.16	245.19
	JUL 245.21	245.21	245.17	245.18	AUG 245.18	245.07	244.95	244.85	SEP 244.79	244.75	244.63	244.48
	OCT 244.38	244.31	244.27	244.20	NOV 244.17	244.16	244.09	244.03	DEC 243.98	243.91	243.84	243.86

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1942	JAN	243.88	243.83	243.76	FEB	243.73	243.77	243.72	243.66	MAR	243.65	243.87	244.31	244.64
	APR	244.84	245.07	245.21	MAY	245.32	245.40	245.51	245.65	JUN	245.76	245.79	245.75	245.69
	JUL	245.64	245.60	245.61	AUG	245.62	245.55	245.42	245.24	SEP	245.08	245.00	244.89	244.74
	OCT	244.60	244.45	244.32	NOV	244.16	244.09	244.02	244.00	DEC	243.93	243.81	243.73	243.83
1943	JAN	244.04	244.15	244.21	FEB	244.33	244.35	244.34	244.34	MAR	244.39	244.38	244.52	244.77
	APR	244.93	245.01	245.08	MAY	245.46	245.79	246.17	246.55	JUN	246.80	246.89	246.90	246.86
	JUL	246.80	246.71	246.60	AUG	246.30	246.17	246.04	245.81	SEP	245.60	245.38	245.09	244.85
	OCT	244.62	244.41	244.28	NOV	244.26	244.19	244.06	243.95	DEC	243.83	243.69	243.55	243.43
1944	JAN	243.42	243.39	243.35	FEB	243.35	243.34	243.36	243.39	MAR	243.40	243.38	243.48	243.69
	APR	243.82	244.08	244.44	MAY	244.91	245.13	245.30	245.39	JUN	245.43	245.50	245.60	245.72
	JUL	245.72	245.63	245.56	AUG	245.34	245.19	245.08	244.90	SEP	244.77	244.67	244.56	244.43
	OCT	244.24	244.09	243.95	NOV	243.64	243.57	243.50	243.45	DEC	243.39	243.42	243.47	243.43
1945	JAN	243.41	243.41	243.45	FEB	243.45	243.43	243.42	243.48	MAR	243.69	243.94	244.25	244.64
	APR	244.95	245.14	245.18	MAY	245.44	245.58	245.77	245.97	JUN	246.04	246.04	246.05	246.07
	JUL	246.02	245.96	245.92	AUG	245.70	245.53	245.32	245.11	SEP	244.92	244.77	244.73	244.76
	OCT	244.87	244.91	244.79	NOV	244.54	244.40	244.28	244.21	DEC	244.18	244.13	244.02	243.97
1946	JAN	244.03	244.18	244.31	FEB	244.30	244.30	244.24	244.17	MAR	244.23	244.41	244.50	244.48
	APR	244.42	244.34	244.24	MAY	244.18	244.19	244.34	244.54	JUN	244.68	244.82	244.92	245.00
	JUL	245.05	245.08	245.10	AUG	244.97	244.93	244.87	244.74	SEP	244.56	244.44	244.39	244.33
	OCT	244.20	244.11	244.10	NOV	244.07	243.97	243.84	243.73	DEC	243.62	243.54	243.54	243.59
1947	JAN	243.62	243.67	243.75	FEB	244.19	244.19	244.08	244.00	MAR	243.96	243.95	243.94	244.10
	APR	244.48	244.85	245.12	MAY	245.55	245.72	245.88	246.11	JUN	246.51	246.90	247.02	246.99
	JUL	246.91	246.84	246.82	AUG	246.76	246.52	246.34	246.17	SEP	245.97	245.76	245.50	245.19
	OCT	244.89	244.67	244.47	NOV	244.12	244.01	243.88	243.72	DEC	243.62	243.62	243.59	243.51
1948	JAN	243.56	243.64	243.59	FEB	243.51	243.48	243.50	243.61	MAR	243.72	243.75	244.03	244.32
	APR	244.80	245.01	245.18	MAY	245.33	245.44	245.57	245.66	JUN	245.66	245.66	245.63	245.60
	JUL	245.56	245.48	245.37	AUG	245.20	245.06	244.97	244.85	SEP	244.71	244.54	244.37	244.20
	OCT	244.03	243.93	243.86	NOV	243.69	243.69	243.70	243.68	DEC	243.62	243.56	243.50	243.48

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1				QUARTER 1				QUARTER 1			
		1	2	3	4	1	2	3	4	1	2	3	4
1949	JAN	243.54	243.67	243.79	243.89	FEB	243.94	243.99	244.13	244.27	MAR	244.31	244.34	244.37	244.45
	APR	244.61	244.75	244.84	244.92	MAY	244.98	245.00	245.02	245.04	JUN	245.03	245.07	245.13	245.17
	JUL	245.17	245.17	245.15	245.11	AUG	245.01	244.90	244.76	244.63	SEP	244.59	244.51	244.43	244.34
	OCT	244.26	244.21	244.12	243.98	NOV	243.80	243.67	243.62	243.54	DEC	243.44	243.37	243.44	243.58
1950	JAN	243.76	243.95	244.09	244.30	FEB	244.41	244.47	244.58	244.60	MAR	244.57	244.51	244.56	244.84
	APR	245.32	245.70	245.83	245.87	MAY	245.88	245.89	245.88	245.82	JUN	245.77	245.76	245.73	245.71
	JUL	245.66	245.58	245.53	245.50	AUG	245.47	245.33	245.18	245.15	SEP	245.06	244.93	244.82	244.60
	OCT	244.41	244.39	244.36	244.22	NOV	244.14	244.06	243.97	243.97	DEC	244.02	244.10	244.12	244.07
1951	JAN	244.11	244.27	244.41	244.50	FEB	244.56	244.53	244.60	244.76	MAR	244.90	245.05	245.16	245.35
	APR	245.65	246.01	246.27	246.47	MAY	246.58	246.60	246.59	246.53	JUN	246.44	246.39	246.34	246.26
	JUL	246.24	246.21	246.14	246.01	AUG	245.78	245.59	245.41	245.23	SEP	245.08	244.96	244.83	244.62
	OCT	244.44	244.29	244.13	243.99	NOV	243.88	243.86	243.83	243.78	DEC	243.79	243.81	243.81	243.85
1952	JAN	243.99	244.18	244.43	244.68	FEB	244.91	245.08	245.17	245.19	MAR	245.19	245.32	245.51	245.65
	APR	245.92	246.20	246.32	246.41	MAY	246.42	246.43	246.57	246.72	JUN	246.74	246.69	246.60	246.50
	JUL	246.39	246.25	246.16	246.02	AUG	245.83	245.68	245.53	245.35	SEP	245.15	244.97	244.88	244.77
	OCT	244.58	244.40	244.17	243.94	NOV	243.76	243.64	243.65	243.67	DEC	243.62	243.66	243.74	243.74
1953	JAN	243.72	243.76	243.91	244.05	FEB	244.09	244.10	244.10	244.09	MAR	244.11	244.16	244.24	244.53
	APR	244.79	244.86	244.92	244.95	MAY	245.09	245.30	245.54	245.74	JUN	245.80	245.80	245.76	245.70
	JUL	245.63	245.53	245.46	245.42	AUG	245.35	245.26	245.11	244.96	SEP	244.87	244.72	244.59	244.46
	OCT	244.26	244.07	243.94	243.83	NOV	243.63	243.52	243.52	243.52	DEC	243.54	243.57	243.61	243.60
1954	JAN	243.57	243.54	243.51	243.57	FEB	243.62	243.59	243.80	244.17	MAR	244.43	244.54	244.55	244.68
	APR	244.88	245.07	245.33	245.64	MAY	245.89	246.04	246.04	245.98	JUN	245.93	245.88	245.85	245.84
	JUL	245.73	245.58	245.43	245.28	AUG	245.18	245.03	244.89	244.85	SEP	244.80	244.69	244.59	244.51
	OCT	244.44	244.43	244.46	244.45	NOV	244.40	244.30	244.17	244.17	DEC	244.09	243.95	243.94	244.02
1955	JAN	244.26	244.48	244.53	244.56	FEB	244.59	244.49	244.40	244.44	MAR	244.56	244.77	245.03	245.26
	APR	245.49	245.70	245.85	245.97	MAY	245.99	245.94	245.85	245.80	JUN	245.75	245.68	245.61	245.53
	JUL	245.46	245.39	245.28	245.17	AUG	245.04	245.06	245.08	244.93	SEP	244.76	244.59	244.41	244.26
	OCT	244.21	244.22	244.36	244.49	NOV	244.44	244.32	244.14	243.93	DEC	243.80	243.71	243.59	243.44

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1956	JAN 243.39	243.43	243.46	243.44	FEB 243.39	243.38	243.40	243.37	MAR 243.49	243.71	243.81	243.83
	APR 244.01	244.31	244.58	244.84	MAY 245.11	245.41	245.62	245.71	JUN 245.79	245.82	245.73	245.61
	JUL 245.54	245.46	245.40	245.28	AUG 245.13	245.02	244.92	244.89	SEP 244.91	244.78	244.58	244.42
	OCT 244.27	244.12	243.95	243.81	NOV 243.71	243.58	243.46	243.39	DEC 243.39	243.44	243.44	243.48
1957	JAN 243.49	243.41	243.41	243.57	FEB 243.67	243.66	243.63	243.69	MAR 243.78	243.86	244.01	244.11
	APR 244.19	244.32	244.43	244.60	MAY 244.69	244.77	245.03	245.24	JUN 245.35	245.44	245.51	245.71
	JUL 245.90	245.93	245.88	245.79	AUG 245.69	245.54	245.33	245.10	SEP 244.97	244.86	244.78	244.65
	OCT 244.38	244.16	244.01	243.88	NOV 243.80	243.77	243.68	243.63	DEC 243.57	243.48	243.58	243.79
1958	JAN 243.84	243.75	243.73	243.80	FEB 243.85	243.80	243.72	243.75	MAR 243.89	243.97	244.04	244.18
	APR 244.42	244.66	244.87	245.09	MAY 245.28	245.43	245.57	245.66	JUN 245.73	245.85	245.88	245.88
	JUL 245.89	245.87	245.89	245.88	AUG 245.87	245.83	245.74	245.66	SEP 245.62	245.57	245.61	245.60
	OCT 245.39	245.20	245.06	244.90	NOV 244.73	244.65	244.55	244.39	DEC 244.26	244.17	244.09	244.04
1959	JAN 243.96	243.85	243.83	243.90	FEB 243.93	243.99	244.05	244.08	MAR 244.20	244.27	244.37	244.57
	APR 244.95	245.35	245.52	245.65	MAY 245.73	245.75	245.79	245.83	JUN 245.81	245.73	245.64	245.59
	JUL 245.62	245.61	245.51	245.42	AUG 245.29	245.20	245.12	245.03	SEP 244.95	244.80	244.59	244.47
	OCT 244.51	244.48	244.30	244.21	NOV 244.19	244.16	244.13	244.10	DEC 244.14	244.28	244.36	244.42
1960	JAN 244.46	244.51	244.58	244.61	FEB 244.62	244.67	244.75	244.79	MAR 244.77	244.67	244.58	244.60
	APR 244.91	245.30	245.62	245.92	MAY 246.09	246.22	246.33	246.41	JUN 246.45	246.43	246.37	246.30
	JUL 246.17	246.01	245.87	245.72	AUG 245.57	245.42	245.30	245.16	SEP 244.96	244.74	244.54	244.39
	OCT 244.22	244.05	243.92	243.82	NOV 243.71	243.61	243.56	243.45	DEC 243.33	243.19	243.04	242.95
1961	JAN 242.89	242.83	242.71	242.58	FEB 242.48	242.40	242.36	242.52	MAR 242.83	243.06	243.21	243.37
	APR 243.55	243.82	244.18	244.50	MAY 244.78	245.04	245.26	245.41	JUN 245.52	245.59	245.65	245.68
	JUL 245.69	245.67	245.61	245.52	AUG 245.41	245.29	245.16	245.06	SEP 244.99	244.87	244.69	244.50
	OCT 244.34	244.19	244.00	243.82	NOV 243.64	243.50	243.43	243.34	DEC 243.26	243.22	243.19	243.12
1962	JAN 243.00	242.95	242.92	242.89	FEB 242.84	242.81	242.82	242.84	MAR 242.84	242.89	243.04	243.24
	APR 243.54	243.87	244.15	244.36	MAY 244.57	244.74	244.86	244.96	JUN 245.01	245.04	245.08	245.09
	JUL 245.04	244.97	244.94	244.92	AUG 244.96	244.97	244.88	244.79	SEP 244.66	244.52	244.42	244.37
	OCT 244.40	244.38	244.30	244.18	NOV 244.04	244.03	244.02	243.96	DEC 243.98	243.96	243.87	243.75

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1	2	3	4	QUARTER 1	2	3	4	QUARTER 1	2	3	4
1963	JAN 243.63	243.52	243.37	243.26	FEB 243.18	243.08	242.96	242.85	MAR 242.79	242.80	242.89	243.15
	APR 243.56	243.86	244.13	244.40	MAY 244.61	244.83	245.05	245.21	JUN 245.28	245.31	245.30	245.28
	JUL 245.24	245.18	245.13	245.06	AUG 245.01	245.01	244.95	244.81	SEP 244.66	244.51	244.34	244.16
	OCT 244.00	243.84	243.70	243.52	NOV 243.35	243.27	243.23	243.21	DEC 243.17	243.07	242.95	242.84
1964	JAN 242.74	242.58	242.45	242.43	FEB 242.41	242.37	242.27	242.10	MAR 242.06	242.23	242.38	242.53
	APR 242.76	243.01	243.25	243.51	MAY 243.72	243.90	244.06	244.20	JUN 244.31	244.38	244.40	244.41
	JUL 244.40	244.42	244.42	244.34	AUG 244.20	244.08	244.06	244.04	SEP 243.90	243.72	243.54	243.37
	OCT 243.18	242.98	242.80	242.63	NOV 242.46	242.31	242.17	242.05	DEC 241.97	241.88	241.82	241.80
1965	JAN 241.82	241.83	241.82	241.78	FEB 241.77	241.91	242.04	242.11	MAR 242.27	242.42	242.56	242.69
	APR 242.80	243.01	243.32	243.61	MAY 243.85	244.03	244.17	244.32	JUN 244.42	244.47	244.51	244.60
	JUL 244.71	244.74	244.69	244.60	AUG 244.55	244.53	244.49	244.42	SEP 244.37	244.35	244.31	244.25
	OCT 244.17	244.12	244.09	244.00	NOV 243.92	243.91	243.97	244.05	DEC 244.09	244.15	244.17	244.19
1966	JAN 244.21	244.17	244.13	244.08	FEB 244.01	244.02	244.05	244.05	MAR 244.20	244.38	244.48	244.59
	APR 244.65	244.66	244.69	244.73	MAY 244.75	244.80	244.93	245.05	JUN 245.13	245.23	245.32	245.35
	JUL 245.34	245.29	245.20	245.13	AUG 245.04	244.98	244.95	244.89	SEP 244.81	244.69	244.59	244.51
	OCT 244.37	244.27	244.14	243.97	NOV 243.88	243.89	243.86	243.87	DEC 243.96	244.10	244.23	244.23
1967	JAN 244.21	244.22	244.20	244.28	FEB 244.38	244.35	244.29	244.22	MAR 244.16	244.17	244.23	244.36
	APR 244.65	244.94	245.13	245.27	MAY 245.41	245.59	245.78	245.91	JUN 245.97	246.04	246.15	246.26
	JUL 246.32	246.33	246.31	246.26	AUG 246.22	246.15	246.01	245.85	SEP 245.68	245.51	245.39	245.33
	OCT 245.23	245.05	244.99	245.00	NOV 244.96	244.93	244.90	244.82	DEC 244.70	244.58	244.52	244.46
1968	JAN 244.36	244.31	244.26	244.25	FEB 244.31	244.29	244.17	244.08	MAR 244.03	244.02	244.19	244.49
	APR 244.75	244.88	244.87	244.83	MAY 244.82	244.86	245.02	245.21	JUN 245.35	245.45	245.52	245.66
	JUL 245.80	245.81	245.77	245.70	AUG 245.64	245.55	245.45	245.34	SEP 245.21	245.17	245.09	244.89
	OCT 244.68	244.51	244.34	244.20	NOV 244.11	244.05	244.00	244.09	DEC 244.23	244.19	244.09	244.12
1969	JAN 244.17	244.16	244.18	244.32	FEB 244.44	244.43	244.38	244.33	MAR 244.25	244.15	244.15	244.32
	APR 244.54	244.74	245.01	245.2[illegible]	MAY 245.37	245.47	245.66	245.85	JUN 245.96	246.02	246.03	246.05
	JUL 246.01	245.92	245.80	245.[illegible]	AUG 245.66	245.50	245.33	245.13	SEP 244.92	244.72	244.54	244.35
	OCT 244.17	244.04	243.99	243.85	NOV 243.81	243.82	243.79	243.75	DEC 243.71	243.76	243.79	243.76

TABLE C-6 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	QUARTER 1				QUARTER 2				QUARTER 3			
1970	JAN	243.71	243.69	243.67	FEB	243.68	243.75	243.78	MAR	243.76	243.77	243.82	243.97
	APR	244.22	244.46	244.68	MAY	245.03	245.13	245.26	JUN	245.39	245.38	245.41	245.51
	JUL	245.58	245.60	245.65	AUG	245.57	245.44	245.30	SEP	245.00	244.85	244.75	244.68
	OCT	244.59	244.51	244.44	NOV	244.29	244.21	244.17	DEC	244.16	244.14	244.17	244.23
1971	JAN	244.24	244.24	244.17	FEB	244.06	244.12	244.17	MAR	244.34	244.47	244.62	244.73
	APR	244.81	245.02	245.29	MAY	245.63	245.73	245.76	JUN	245.66	245.61	245.56	245.56
	JUL	245.56	245.47	245.37	AUG	245.22	245.09	245.02	SEP	245.01	244.93	244.85	244.71
	OCT	244.57	244.46	244.36	NOV	244.12	243.95	243.83	DEC	243.74	243.78	243.84	243.89
1972	JAN	243.94	243.97	244.06	FEB	244.14	244.22	244.27	MAR	244.37	244.49	244.65	244.80
	APR	244.90	245.12	245.49	MAY	246.00	246.21	246.30	JUN	246.37	246.34	246.39	246.53
	JUL	246.61	246.66	246.68	AUG	246.51	246.40	246.24	SEP	245.88	245.67	245.41	245.23
	OCT	245.09	244.88	244.66	NOV	244.50	244.56	244.53	DEC	244.58	244.71	244.87	245.07
1973	JAN	245.29	245.41	245.52	FEB	245.94	246.08	246.07	MAR	245.99	246.17	246.48	246.75
	APR	247.04	247.30	247.34	MAY	247.38	247.37	247.36	JUN	247.36	247.29	247.15	247.06
	JUL	246.94	246.73	246.47	AUG	246.04	245.84	245.63	SEP	245.23	244.96	244.76	244.63
	OCT	244.51	244.39	244.24	NOV	244.06	243.94	243.91	DEC	243.89	243.92	243.96	244.15
1974	JAN	244.39	244.52	244.67	FEB	245.10	245.19	245.21	MAR	245.37	245.50	245.52	245.55
	APR	245.73	245.97	246.15	MAY	246.31	246.46	246.71	JUN	246.87	246.82	246.81	246.78
	JUL	246.74	246.66	246.45	AUG	246.09	245.88	245.65	SEP	245.18	244.96	244.75	244.54
	OCT	244.36	244.21	244.05	NOV	243.77	243.69	243.68	DEC	243.73	243.79	243.82	243.79
1975	JAN	243.81	243.88	243.95	FEB	244.25	244.31	244.35	MAR	244.67	244.74	244.93	245.19
	APR	245.34	245.41	245.47	MAY	245.69	245.78	245.74	JUN	245.71	245.78	245.81	245.73
	JUL	245.60	245.46	245.37	AUG	245.16	245.04	244.97	SEP	244.89	244.74	244.68	244.73
	OCT	244.72	244.63	244.58	NOV	244.35	244.28	244.19	DEC	244.01	244.02	244.06	244.13
1976	JAN	244.16	244.21	244.29	FEB	244.39	244.39	244.56	MAR	245.24	245.56	245.77	246.07
	APR	246.39	246.55	246.61	MAY	246.89	246.95	247.05	JUN	247.15	247.03	246.94	246.94
	JUL	246.87	246.72	246.59	AUG	246.29	246.14	245.98	SEP	245.53	245.32	245.16	245.01
	OCT	244.86	244.75	244.65	NOV	244.38	244.21	243.99	DEC	243.74	243.69	243.68	243.71

TABLE C-7

LAKE ONTARIO MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.29	244.38	244.52	245.21	245.57	245.76	245.95	246.04	245.65	245.04	244.54	244.58
1901	244.22	243.97	243.89	245.15	245.64	245.74	245.55	245.22	244.84	244.21	243.72	243.76
1902	243.91	243.74	244.31	244.87	245.06	245.49	246.29	246.18	245.35	244.59	243.99	243.62
1903	243.58	243.81	244.54	245.49	245.42	245.28	245.51	245.41	244.91	244.31	243.73	243.35
1904	243.09	243.38	243.96	245.37	246.06	246.36	246.27	245.80	245.10	244.44	243.71	243.26
1905	243.28	243.04	243.14	244.28	245.05	245.64	245.91	245.71	245.09	244.35	243.76	243.64
1906	244.00	244.18	243.97	244.29	244.66	245.16	245.53	245.30	244.66	244.25	244.06	243.77
1907	244.26	244.40	244.17	244.58	244.98	245.38	245.54	245.41	244.85	244.46	244.13	243.84
1908	244.30	244.42	244.67	245.40	246.02	246.16	245.93	245.47	244.57	243.94	243.47	243.14
1909	243.04	243.30	243.73	244.41	245.59	245.80	245.59	245.22	244.58	243.93	243.58	243.47
1910	243.43	243.56	244.12	244.62	245.28	245.50	245.43	245.26	244.87	244.35	243.77	243.50
1911	243.36	243.46	243.59	244.27	245.05	245.51	245.68	245.43	245.15	244.90	244.51	244.30
1912	244.30	244.10	244.01	244.98	245.88	246.43	246.11	245.53	245.03	244.59	244.18	243.89
1913	244.42	244.89	244.74	245.81	246.05	246.06	245.75	245.29	244.68	244.14	243.85	243.63
1914	243.58	243.73	243.67	244.71	245.38	245.53	245.38	245.08	244.82	244.23	243.66	243.30
1915	243.25	243.61	243.93	244.11	244.61	244.95	245.11	245.51	245.26	244.67	243.91	243.54
1916	243.90	244.12	244.04	244.91	245.66	246.46	246.53	245.64	244.66	243.96	243.61	243.47
1917	243.52	243.59	243.97	245.12	245.35	245.77	246.16	245.77	245.01	244.37	244.11	243.76
1918	243.55	243.53	244.16	244.78	244.86	245.00	245.13	244.93	244.68	244.35	244.09	243.77
1919	243.99	244.01	244.07	244.63	245.54	246.15	245.85	245.22	244.59	244.06	243.73	243.49
1920	243.34	243.20	243.35	244.19	244.88	245.22	245.62	245.69	245.22	244.64	244.11	244.06
1921	244.26	244.18	244.38	244.90	245.19	245.27	245.23	244.91	244.51	244.19	243.93	243.78
1922	243.67	243.69	244.08	245.02	245.59	245.72	245.86	245.32	244.67	244.06	243.54	243.13
1923	243.10	243.06	243.37	244.26	245.04	245.82	245.89	245.59	245.16	244.65	244.33	244.30
1924	244.31	244.33	244.19	244.76	245.56	245.83	245.73	245.44	244.83	244.42	243.69	243.21
1925	242.89	242.88	243.72	244.30	244.51	244.62	244.59	244.42	244.11	243.74	243.69	243.69
1926	243.29	243.02	242.91	243.78	244.80	245.10	245.15	245.06	244.98	244.80	244.62	244.39
1927	244.10	243.89	244.01	244.32	244.49	245.03	245.31	245.28	244.84	244.46	244.15	244.62
1928	245.17	245.32	245.13	245.51	245.72	245.78	245.99	245.81	245.06	244.40	244.07	243.97
1929	244.16	244.47	244.60	245.71	246.60	246.71	246.50	245.94	245.17	244.52	244.05	243.73
1930	244.31	245.02	245.61	246.00	246.08	246.04	245.94	245.26	244.61	243.97	243.48	243.33
1931	243.24	243.15	243.24	243.85	244.57	245.21	245.29	245.07	244.74	244.35	244.06	243.92
1932	244.29	244.81	244.86	245.40	245.73	245.70	245.76	245.70	245.23	244.79	244.63	244.33
1933	244.35	244.26	244.36	245.30	245.88	245.94	245.84	245.54	245.19	244.62	244.09	243.89

TABLE C-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	243.85	243.66	243.53	244.17	244.79	244.95	245.01	244.63	244.28	243.98	243.56	243.24
1935	243.06	242.87	242.88	243.24	243.74	244.25	244.66	244.48	244.04	243.58	243.34	243.07
1936	242.70	242.23	242.61	244.26	244.97	245.05	244.85	244.42	244.09	243.81	243.65	243.30
1937	243.54	244.03	244.09	244.44	245.34	245.86	245.94	245.58	244.95	244.42	244.29	243.99
1938	243.79	244.14	244.49	245.00	245.16	245.34	245.42	245.52	245.24	244.77	244.04	243.66
1939	243.47	243.46	243.93	244.84	245.42	245.39	245.47	245.43	245.05	244.64	244.14	243.78
1940	243.48	243.13	243.02	243.95	245.18	245.72	245.70	245.26	244.70	244.35	244.00	243.98
1941	244.31	244.23	244.01	244.52	245.00	245.16	245.19	245.01	244.66	244.29	244.11	243.90
1942	243.79	243.72	244.12	245.10	245.47	245.75	245.62	245.46	244.93	244.40	244.06	243.82
1943	244.17	244.34	244.51	245.06	245.99	246.86	246.64	246.08	245.23	244.39	244.11	243.62
1944	243.38	243.36	243.49	244.25	245.18	245.56	245.60	245.13	244.61	244.02	243.54	243.43
1945	243.43	243.44	244.13	245.13	245.69	246.05	245.93	245.41	244.79	244.81	244.36	244.07
1946	244.20	244.25	244.40	244.29	244.31	244.85	245.07	244.88	244.43	244.12	243.90	243.57
1947	243.75	244.11	243.99	244.94	245.81	246.85	246.85	246.45	245.60	244.57	243.93	243.58
1948	243.58	243.52	244.00	245.06	245.50	245.64	245.43	245.02	244.45	243.89	243.69	243.54
1949	243.72	244.08	244.37	244.78	245.01	245.10	245.15	244.82	244.46	244.14	243.66	243.46
1950	244.02	244.51	244.62	245.68	245.87	245.74	245.57	245.28	244.85	244.34	244.03	244.08
1951	244.32	244.61	245.12	246.10	246.57	246.35	246.15	245.50	244.87	244.21	243.84	243.81
1952	244.32	245.09	245.42	246.21	246.53	246.63	246.20	245.60	244.94	244.27	243.68	243.69
1953	243.86	244.09	244.26	244.88	245.42	245.76	245.51	245.17	244.66	244.02	243.55	243.58
1954	243.55	243.79	244.55	245.23	245.98	245.87	245.50	244.99	244.64	244.44	244.26	244.00
1955	244.46	244.48	244.90	245.75	245.89	245.64	245.32	245.03	244.50	244.32	244.21	243.63
1956	243.43	243.38	243.71	244.44	245.46	245.73	245.42	244.99	244.67	244.03	243.53	243.44
1957	243.47	243.66	243.94	244.38	244.93	245.50	245.88	245.41	244.82	244.11	243.72	243.60
1958	243.78	243.78	244.02	244.76	245.48	245.83	245.88	245.77	245.60	245.14	244.58	244.14
1959	243.88	244.01	244.35	245.37	245.77	245.69	245.54	245.16	244.70	244.37	244.14	244.30
1960	244.54	244.71	244.65	245.44	246.26	246.39	245.94	245.36	244.65	244.00	243.58	243.12
1961	242.75	242.44	243.12	244.01	245.12	245.61	245.62	245.23	244.76	244.09	243.48	243.19
1962	242.94	242.83	243.00	243.98	244.78	245.05	244.97	244.90	244.49	244.31	244.01	243.89
1963	243.44	243.01	242.91	243.99	244.92	245.29	245.15	244.94	244.42	243.76	243.27	243.00
1964	242.55	242.28	242.30	243.13	243.97	244.37	244.39	244.09	243.63	242.90	242.25	241.87
1965	241.81	241.96	242.48	243.18	244.09	244.50	244.68	244.50	244.32	244.09	243.96	244.15
1966	244.15	244.03	244.41	244.68	244.88	245.26	245.24	244.96	244.65	244.19	243.87	244.13
1967	244.23	244.31	244.23	245.00	245.67	246.10	246.30	246.05	245.48	245.07	244.90	244.56

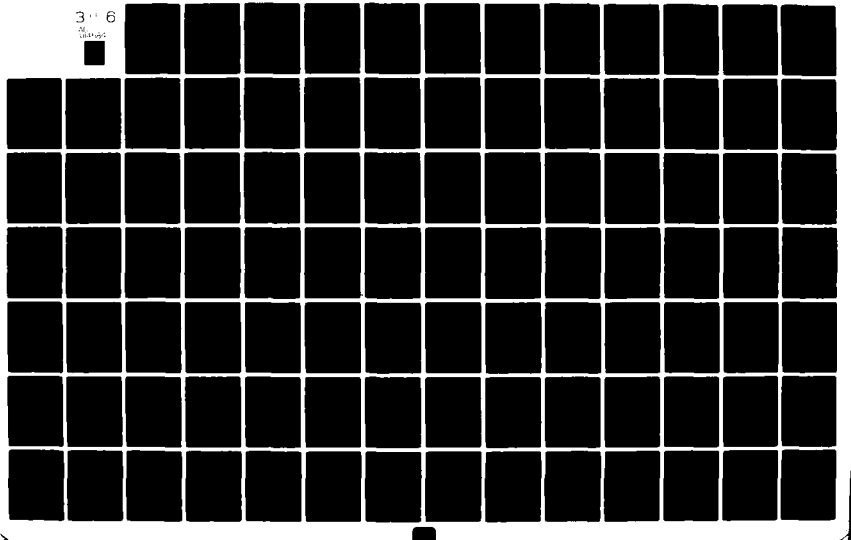
TABLE C-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (IGLD 1955)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.29	244.21	244.18	244.83	244.98	245.49	245.77	245.50	245.09	244.43	244.06	244.16
1969	244.20	244.39	244.22	244.88	245.59	246.01	245.86	245.40	244.63	244.00	243.79	243.75
1970	243.68	243.7	243.83	244.56	245.20	245.42	245.62	245.36	244.82	244.48	244.20	244.17
1971	244.18	244.1	244.54	245.15	245.71	245.60	245.43	245.09	244.87	244.41	243.91	243.81
1972	244.02	244.23	244.58	245.32	246.21	246.40	246.64	246.30	245.55	244.78	244.52	244.81
1973	245.48	246.3	247.35	247.26	247.37	247.21	246.59	245.73	244.90	244.32	243.95	243.98
1974	244.61	245.1	246.48	246.03	246.58	246.82	246.52	245.76	244.86	244.12	243.71	243.78
1975	243.93	244.55	244.88	245.44	245.72	245.75	245.43	245.03	244.76	244.60	244.22	244.05
1976	244.25	244.55	245.66	246.57	247.01	247.01	246.66	246.04	245.25	244.69	244.10	243.70

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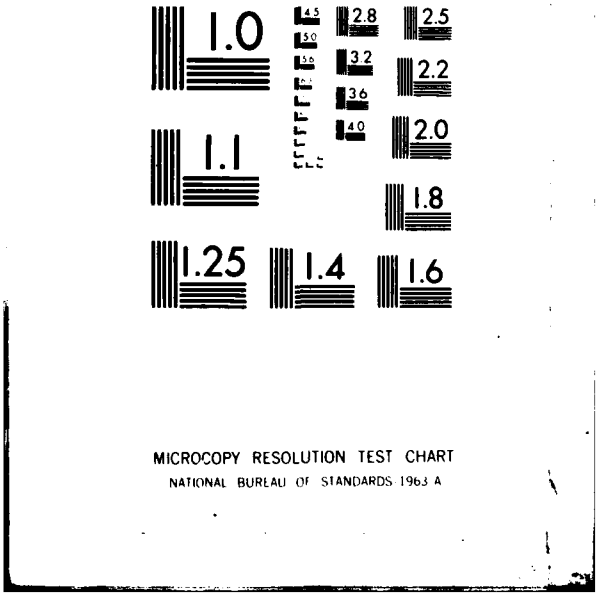

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TABLE C-8

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	83	82	82	82	114	114	110	116	122	123	121	83
1901	82	81	81	81	99	86	102	116	96	82	109	70
1902	70	70	70	70	80	81	81	70	67	70	86	70
1903	70	70	70	70	81	100	91	99	92	92	95	70
1904	70	70	70	70	70	70	70	67	77	92	115	70
1905	70	70	70	70	89	87	88	97	118	117	112	77
1906	76	76	75	75	85	82	87	82	82	82	82	70
1907	70	70	70	70	81	86	87	83	117	117	114	67
1908	67	67	67	67	70	77	87	104	71	70	55	67
1909	67	67	67	67	70	76	67	77	77	70	81	76
1910	76	75	75	75	75	70	67	55	55	55	55	55
1911	55	55	55	55	55	67	67	81	90	93	55	67
1912	67	67	67	67	84	76	76	70	70	55	55	55
1913	55	55	55	55	81	81	82	88	92	116	115	77
1914	76	76	75	75	80	81	82	82	77	82	67	70
1915	70	70	69	69	75	76	89	86	76	103	113	86
1916	86	85	84	85	105	118	120	120	120	120	117	77
1917	76	76	76	76	81	76	95	55	71	71	55	67
1918	67	67	67	67	70	90	70	71	71	55	82	82
1919	82	81	80	80	100	90	67	55	55	55	55	55
1920	55	55	55	55	102	102	105	116	87	55	55	67
1921	67	67	67	67	81	81	76	76	67	55	55	55
1922	55	55	55	55	67	55	55	55	55	55	55	55
1923	55	55	55	55	67	55	55	55	55	55	55	55
1924	55	55	55	55	55	55	55	55	55	55	55	55
1925	55	55	55	55	67	55	55	55	55	55	55	55
1926	55	55	55	55	55	55	55	55	55	75	87	67
1927	67	67	67	67	99	108	110	114	113	109	110	67
1928	67	67	67	67	85	81	95	103	117	118	117	77
1929	76	76	76	76	103	90	67	82	55	55	55	67
1930	67	67	67	67	76	76	102	82	71	70	55	67
1931	67	67	67	67	69	70	67	70	55	55	70	70
1932	70	70	69	69	79	84	76	89	95	67	55	67
1933	67	67	67	67	74	75	70	70	67	70	75	67

TABLE C-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	67	67	67	67	82	90	84	80	75	104	107	84
1935	83	82	82	82	92	87	92	103	97	80	106	70
1936	69	69	69	69	95	103	102	88	88	70	55	55
1937	55	55	55	55	95	101	92	103	104	88	94	70
1938	69	69	69	70	94	96	105	100	100	90	93	76
1939	75	75	75	75	95	104	112	114	115	111	95	67
1940	67	67	67	67	69	75	89	80	67	55	55	55
1941	55	55	55	55	83	80	88	80	85	111	110	70
1942	70	70	69	70	80	89	76	81	81	70	99	70
1943	70	70	70	70	80	87	117	115	110	70	55	67
1944	67	67	67	67	75	81	96	109	117	115	90	76
1945	75	75	75	76	106	100	87	87	96	82	55	70
1946	70	70	70	70	89	81	82	82	77	95	112	76
1947	75	75	75	75	80	81	102	87	92	87	67	67
1948	67	67	67	67	88	76	70	70	76	55	55	67
1949	67	67	67	67	75	80	81	96	85	76	105	70
1950	69	69	69	69	75	103	112	116	116	115	114	86
1951	85	84	85	85	103	107	118	118	119	119	117	77
1952	77	76	76	76	104	91	106	115	109	82	55	55
1953	55	55	55	55	100	112	119	120	119	112	82	67
1954	67	67	67	67	94	109	117	116	77	70	55	55
1955	55	55	55	55	86	81	76	82	87	86	94	76
1956	75	75	75	74	70	70	70	70	67	55	55	67
1957	67	67	67	67	83	75	76	76	70	55	55	67
1958	67	67	67	67	74	67	70	70	75	80	70	70
1959	69	69	69	69	69	75	75	70	93	110	108	67
1960	67	67	67	67	75	81	70	70	55	55	55	67
1961	67	67	67	67	84	85	76	70	55	55	55	67
1962	67	67	67	67	75	80	70	70	67	70	55	55
1963	55	55	55	55	88	79	91	80	75	70	55	67
1964	67	67	67	67	85	96	99	95	103	106	104	74
1965	74	74	74	74	78	92	87	84	88	97	99	80
1966	79	79	79	79	93	96	88	85	102	85	106	67
1967	67	67	67	67	90	80	81	76	81	55	67	67

TABLE C-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	67	67	67	67	84	81	101	117	119	119	117	82
1969	82	81	81	81	109	105	96	82	92	82	55	67
1970	67	67	67	67	85	100	96	99	82	71	99	82
1971	81	81	81	81	110	117	118	117	88	83	112	82
1972	81	81	81	81	104	107	88	117	120	112	82	70
1973	70	70	70	70	104	103	104	101	93	71	55	67
1974	67	67	67	67	102	99	106	107	105	77	55	77
1975	77	77	76	76	104	102	103	87	55	55	55	67
1976	67	67	67	67	106	91	96	55	55	55	55	55

TABLE C-9

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	149	142	141	181	186	190	195	200	204	205	205	197
1901	173	134	165	139	202	212	213	215	211	208	203	195
1902	155	160	193	194	195	199	198	200	199	194	193	188
1903	146	144	180	186	191	195	197	201	204	205	202	192
1904	163	158	164	192	201	208	210	211	210	209	206	197
1905	133	147	171	203	203	207	211	212	213	210	208	204
1906	202	159	180	209	210	212	212	210	208	204	201	186
1907	158	149	178	200	203	206	208	209	209	206	203	200
1908	146	139	172	195	202	209	214	213	210	204	199	194
1909	176	128	158	192	195	200	203	203	202	198	192	182
1910	147	148	186	191	193	196	197	195	194	191	188	174
1911	140	136	175	178	186	190	191	189	188	187	188	182
1912	142	149	165	174	187	197	199	202	202	201	199	198
1913	189	150	169	181	193	203	207	208	208	206	205	200
1914	166	164	175	197	195	200	205	204	203	200	197	184
1915	142	162	178	190	188	191	192	191	192	191	191	188
1916	174	151	157	192	199	208	214	214	213	213	212	205
1917	178	172	205	204	206	211	217	219	217	211	204	174
1918	151	169	184	170	224	227	226	223	217	213	210	206
1919	197	193	194	197	208	212	214	210	207	205	202	199
1920	135	146	182	203	208	209	211	211	212	208	202	196
1921	194	146	187	191	200	202	201	201	201	198	193	189
1922	156	149	178	192	201	203	207	207	203	199	195	190
1923	168	148	163	182	191	194	195	195	193	192	187	179
1924	157	128	163	171	180	183	185	189	190	185	181	160
1925	143	140	154	172	172	172	174	172	168	165	161	159
1926	115	122	133	156	164	171	174	173	170	165	166	166
1927	123	132	153	173	180	186	188	189	188	188	187	180
1928	151	128	148	191	197	201	203	206	209	211	215	210
1929	181	177	205	209	218	229	230	231	227	222	215	190
1930	167	176	199	197	202	210	215	215	210	203	199	191
1931	160	124	138	187	188	188	187	184	182	182	181	176
1932	170	169	146	173	173	178	179	180	179	178	174	160
1933	164	130	159	162	172	178	182	180	178	175	173	160

TABLE C-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	122	135	145	167	174	176	177	174	174	174	175	169
1935	141	155	163	173	175	180	182	180	179	177	176	149
1936	139	143	161	173	177	181	181	182	181	181	176	171
1937	164	126	161	159	163	169	169	170	174	174	174	165
1938	139	155	143	178	183	188	191	192	192	190	186	181
1939	167	142	149	179	185	192	196	197	196	194	190	185
1940	132	148	156	174	176	179	183	186	186	183	180	177
1941	145	132	159	174	181	182	182	181	181	186	189	188
1942	154	112	168	186	190	194	197	195	192	192	189	183
1943	146	153	171	191	189	198	206	211	211	208	204	196
1944	148	166	171	193	192	196	200	201	201	200	197	190
1945	153	165	184	183	189	193	198	200	200	195	196	187
1946	165	155	194	200	202	200	201	199	198	195	191	186
1947	153	149	178	176	186	190	198	200	200	201	199	188
1948	170	164	176	165	187	192	194	193	190	185	182	178
1949	173	161	150	172	176	181	185	185	182	177	175	168
1950	155	135	143	168	171	179	186	191	190	189	187	179
1951	154	156	177	186	196	200	206	212	214	216	217	209
1952	202	196	199	207	216	220	226	231	228	222	216	209
1953	205	197	199	199	207	210	215	217	216	213	208	199
1954	167	154	190	190	196	205	212	214	212	211	211	205
1955	190	179	188	192	198	202	202	200	194	190	190	183
1956	140	140	167	180	178	186	189	191	189	187	185	179
1957	145	155	173	170	173	180	181	184	182	182	180	176
1958	142	131	166	165	176	175	174	173	172	171	169	158
1959	116	129	152	156	168	172	175	178	180	179	180	175
1960	163	143	164	175	190	198	204	205	203	199	197	179
1961	167	175	177	177	175	179	184	184	185	187	186	178
1962	152	144	174	180	185	188	188	187	186	181	175	164
1963	142	131	154	162	168	171	174	175	174	172	168	158
1964	136	130	149	152	155	159	162	163	164	164	162	157
1965	133	133	145	155	164	169	170	171	174	177	176	170
1966	167	159	167	176	178	179	180	179	176	174	172	169
1967	166	153	167	172	180	186	190	189	188	184	183	178

TABLE C-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	162	158	174	178	182	185	189	192	197	197	195	186
1969	160	175	183	185	190	197	203	205	204	202	200	189
1970	143	161	186	189	195	200	205	206	207	206	203	197
1971	182	174	191	202	210	212	216	217	213	208	206	197
1972	191	183	188	192	203	208	210	216	220	218	212	205
1973	201	190	199	209	220	226	230	232	231	227	222	211
1974	199	199	202	206	215	224	230	231	230	226	220	211
1975	199	195	192	205	215	220	224	223	218	212	208	203
1976	166	174	194	208	215	221	221	218	213	205	200	181

TABLE C-10

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	153	148	149	185	189	193	198	203	204	204	205	197
1901	177	153	171	137	189	207	213	216	211	208	204	200
1902	155	166	188	189	195	201	208	204	202	196	193	196
1903	157	148	188	193	199	203	206	205	206	205	205	211
1904	171	178	171	203	208	209	212	214	211	210	208	204
1905	142	165	186	199	205	211	217	218	215	213	211	206
1906	202	158	181	197	212	217	218	213	210	206	204	186
1907	176	157	183	202	209	207	211	213	212	209	205	203
1908	155	157	183	201	210	215	218	218	211	210	202	194
1909	182	138	158	197	202	202	205	203	202	201	199	184
1910	168	150	179	195	200	200	198	196	194	193	192	179
1911	140	144	171	177	187	191	191	190	189	189	191	185
1912	146	150	170	182	197	201	204	205	205	205	204	202
1913	190	152	170	194	204	205	208	209	209	208	208	200
1914	176	169	176	192	200	202	206	209	206	202	201	197
1915	144	169	170	187	194	194	196	196	195	192	192	190
1916	187	161	155	191	208	207	213	217	215	215	213	214
1917	167	174	203	209	216	215	219	223	215	215	209	177
1918	162	177	178	190	230	229	230	226	222	215	215	209
1919	210	197	204	211	216	217	215	216	213	211	209	198
1920	142	153	186	203	203	210	212	213	212	211	204	194
1921	192	143	192	197	201	203	203	202	201	202	193	192
1922	170	155	183	189	196	205	208	208	204	201	197	193
1923	159	151	168	184	190	196	196	196	195	194	190	174
1924	166	131	161	168	181	186	186	190	191	187	184	168
1925	153	142	160	165	166	174	176	173	170	167	164	152
1926	122	121	139	154	166	167	171	171	171	170	174	172
1927	128	132	156	174	181	185	191	188	188	189	191	182
1928	169	148	152	183	198	202	203	206	210	214	215	213
1929	192	179	213	226	232	237	238	234	228	222	216	198
1930	177	183	203	209	212	214	220	218	212	210	198	192
1931	163	131	139	185	186	188	188	184	185	185	183	182
1932	171	176	147	169	180	179	181	181	180	178	175	173
1933	169	149	164	170	179	187	185	182	178	175	174	161

TABLE C-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	132	135	155	170	175	177	177	174	174	173	174	172
1935	148	164	161	172	180	176	181	180	180	178	174	149
1936	147	146	159	169	175	181	181	181	184	179	176	171
1937	170	134	159	171	169	169	168	170	171	174	173	162
1938	144	162	158	179	185	188	191	191	193	191	187	183
1939	165	152	157	185	187	192	195	195	197	193	191	184
1940	142	149	155	172	177	183	185	186	187	185	186	184
1941	153	137	153	170	181	182	183	181	182	185	190	185
1942	140	120	165	187	192	197	199	196	196	190	191	188
1943	161	157	183	193	205	205	214	214	214	211	206	195
1944	155	164	174	195	196	202	205	202	202	201	197	197
1945	158	164	184	188	199	201	205	203	205	204	198	193
1946	174	166	197	200	203	206	204	202	198	195	191	188
1947	165	152	181	199	199	201	206	208	206	204	200	192
1948	181	174	191	192	200	199	200	199	194	187	182	180
1949	183	179	156	176	178	182	186	185	182	179	175	175
1950	171	150	158	178	177	183	190	192	194	193	188	185
1951	161	169	188	196	202	207	213	218	218	218	220	222
1952	217	208	213	218	221	225	232	235	234	224	218	212
1953	206	202	207	206	210	216	222	221	218	213	209	201
1954	168	168	198	199	202	211	217	215	216	217	214	208
1955	200	188	199	199	203	206	208	202	202	197	193	189
1956	149	143	175	190	201	194	196	200	199	194	189	182
1957	151	156	175	177	180	182	190	190	189	186	183	181
1958	139	137	169	161	177	178	178	176	176	175	168	165
1959	123	132	164	165	173	174	176	180	182	183	185	184
1960	173	153	168	190	194	205	204	206	205	201	197	180
1961	170	180	182	186	181	183	187	187	188	189	188	182
1962	153	149	182	184	186	190	189	189	187	182	179	167
1963	146	133	161	169	171	174	176	176	176	173	169	162
1964	142	133	154	157	159	161	164	167	166	165	163	160
1965	140	144	155	167	167	170	172	172	175	178	179	179
1966	171	165	174	182	181	183	182	181	179	176	176	179
1967	172	159	177	184	182	191	194	193	191	191	188	190

TABLE C-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	168	174	185	181	185	191	192	195	198	199	197	194
1969	168	187	190	193	196	201	205	207	204	202	203	192
1970	150	163	190	197	197	202	206	207	207	208	205	203
1971	184	181	202	207	208	212	215	216	214	208	207	201
1972	196	186	199	202	205	208	212	218	220	220	218	214
1973	212	197	220	215	222	230	232	233	233	228	227	219
1974	213	211	215	216	222	225	230	232	230	228	222	215
1975	207	205	205	216	216	222	224	227	223	216	211	208
1976	169	191	212	215	220	223	227	222	215	208	204	184

TABLE C-11

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1900	JAN	184	180	181	181	FEB	181	182	183	185	MAR	188	191	193	195
	APR	195	197	199	201	MAY	207	207	208	208	JUN	207	207	206	206
	JUL	202	202	202	202	AUG	203	203	204	204	SEP	203	201	198	197
	OCT	198	197	196	194	NOV	194	194	194	195	DEC	196	197	195	194
1901	JAN	189	190	190	189	FEB	187	184	180	177	MAR	178	180	182	186
	APR	187	187	187	187	MAY	191	191	193	196	JUN	196	199	201	202
	JUL	200	200	199	199	AUG	200	198	198	199	SEP	202	200	198	197
	OCT	196	194	193	192	NOV	192	192	191	191	DEC	191	191	192	193
1902	JAN	190	189	187	184	FEB	180	179	178	176	MAR	180	183	186	190
	APR	191	194	196	196	MAY	203	206	206	207	JUN	207	208	210	212
	JUL	214	218	220	222	AUG	224	222	220	216	SEP	214	212	212	214
	OCT	216	215	214	211	NOV	210	208	208	206	DEC	204	203	204	205
1903	JAN	200	199	198	197	FEB	197	201	200	197	MAR	203	210	213	215
	APR	217	224	228	226	MAY	230	229	228	227	JUN	226	227	227	226
	JUL	222	222	222	222	AUG	221	218	217	217	SEP	220	218	216	213
	OCT	213	213	211	207	NOV	205	204	203	203	DEC	202	200	198	197
1904	JAN	193	192	192	194	FEB	194	194	194	194	MAR	200	205	207	214
	APR	223	228	229	230	MAY	236	236	236	238	JUN	240	240	238	236
	JUL	233	234	234	232	AUG	230	227	226	226	SEP	226	224	222	220
	OCT	220	218	216	213	NOV	214	212	208	207	DEC	207	206	205	203
1905	JAN	198	196	195	195	FEB	192	190	188	187	MAR	187	187	189	195
	APR	198	200	203	206	MAY	214	217	221	223	JUN	224	227	230	230
	JUL	225	226	226	225	AUG	224	223	224	222	SEP	221	220	220	219
	OCT	218	216	214	211	NOV	210	210	209	209	DEC	210	210	210	209
1906	JAN	205	205	208	210	FEB	210	208	205	202	MAR	202	202	202	204
	APR	206	209	211	212	MAY	218	218	219	220	JUN	219	221	222	222
	JUL	219	219	219	218	AUG	219	219	219	219	SEP	217	215	214	213
	OCT	213	212	212	211	NOV	212	211	211	210	DEC	214	218	220	218

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1907	JAN	215	221	225	223	FEB	219	215	212	210	MAR	209	208	210	215
	APR	217	217	216	217	MAY	224	224	225	227	JUN	229	232	232	232
	JUL	229	229	229	228	AUG	228	226	223	221	SEP	221	221	220	220
	OCT	221	221	219	218	NOV	219	217	215	214	DEC	213	213	214	216
1908	JAN	217	218	216	213	FEB	209	208	209	211	MAR	214	217	222	225
	APR	227	230	231	231	MAY	237	239	240	241	JUN	240	239	237	236
	JUL	232	230	230	230	AUG	229	228	228	226	SEP	223	221	219	217
	OCT	216	213	211	210	NOV	207	202	200	198	DEC	197	198	198	196
1909	JAN	193	194	193	192	FEB	192	192	193	196	MAR	201	201	200	200
	APR	201	203	206	209	MAY	219	226	229	230	JUN	231	232	231	231
	JUL	226	224	223	222	AUG	222	221	220	218	SEP	216	214	212	209
	OCT	206	203	201	200	NOV	200	200	201	201	DEC	200	198	198	198
1910	JAN	193	191	190	190	FEB	188	188	187	187	MAR	193	198	200	201
	APR	201	203	205	209	MAY	218	220	219	220	JUN	220	220	219	217
	JUL	212	212	212	211	AUG	212	211	210	208	SEP	209	208	205	203
	OCT	204	205	204	202	NOV	199	198	196	196	DEC	197	196	194	192
1911	JAN	187	186	185	185	FEB	185	184	184	183	MAR	184	184	184	186
	APR	188	191	194	197	MAY	202	202	203	203	JUN	202	203	203	202
	JUL	198	197	195	194	AUG	194	194	194	193	SEP	194	193	193	193
	OCT	194	194	194	192	NOV	191	189	190	191	DEC	192	196	199	198
1912	JAN	192	191	191	191	FEB	188	186	184	184	MAR	186	186	188	195
	APR	200	206	211	212	MAY	217	218	220	221	JUN	220	220	220	220
	JUL	215	214	214	214	AUG	215	214	215	215	SEP	217	217	216	214
	OCT	214	212	211	211	NOV	212	211	208	205	DEC	203	202	202	202
1913	JAN	203	209	216	220	FEB	218	217	216	214	MAR	212	211	214	229
	APR	244	248	248	247	MAY	252	250	248	248	JUN	246	245	243	242
	JUL	237	236	234	232	AUG	231	229	228	225	SEP	225	222	217	215
	OCT	216	215	213	210	NOV	210	211	213	215	DEC	215	211	211	212

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1914	JAN	208	207	206	204	FEB	202	201	200	198	MAR	197	196	196	201
	APR	206	209	210	213	MAY	222	228	233	233	JUN	232	231	229	228
	JUL	223	223	222	221	AUG	220	218	218	218	SEP	219	216	215	213
	OCT	211	211	212	208	NOV	204	202	200	200	DEC	200	199	196	196
1915	JAN	192	191	189	188	FEB	188	190	193	195	MAR	197	195	193	193
	APR	192	192	193	193	MAY	199	201	202	203	JUN	203	203	203	204
	JUL	201	203	205	206	AUG	209	210	212	211	SEP	211	210	211	211
	OCT	210	208	208	205	NOV	203	201	199	198	DEC	198	199	198	199
1916	JAN	200	204	205	208	FEB	210	210	209	206	MAR	206	206	207	211
	APR	213	216	218	221	MAY	228	230	232	235	JUN	237	239	240	240
	JUL	237	236	234	232	AUG	231	228	227	224	SEP	223	221	218	215
	OCT	215	213	211	210	NOV	210	210	208	206	DEC	207	207	208	209
1917	JAN	205	207	206	204	FEB	202	200	198	198	MAR	199	202	205	210
	APR	217	224	224	225	MAY	231	233	236	239	JUN	241	244	245	247
	JUL	246	248	249	248	AUG	246	243	241	239	SEP	240	239	236	233
	OCT	232	230	229	230	NOV	233	233	232	230	DEC	229	226	223	220
1918	JAN	212	207	204	201	FEB	198	197	199	203	MAR	207	211	214	214
	APR	212	210	207	204	MAY	207	210	214	216	JUN	217	216	219	219
	JUL	216	217	217	217	AUG	218	218	217	216	SEP	218	217	216	215
	OCT	215	214	213	214	NOV	214	212	211	209	DEC	210	213	216	217
1919	JAN	211	208	209	211	FEB	210	210	209	208	MAR	210	213	218	223
	APR	223	224	228	231	MAY	239	243	246	248	JUN	247	246	245	243
	JUL	238	236	235	233	AUG	233	232	230	228	SEP	227	225	223	221
	OCT	221	220	218	218	NOV	219	217	214	212	DEC	212	211	209	205
1920	JAN	197	195	193	191	FEB	186	182	180	179	MAR	179	181	186	189
	APR	191	195	201	206	MAY	214	216	217	217	JUN	216	217	219	221
	JUL	217	218	218	218	AUG	218	218	219	218	SEP	217	215	214	212
	OCT	211	210	209	208	NOV	208	209	209	209	DEC	210	210	209	209

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4		QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4		QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
1921	JAN	206	207	206	207	FEB	206	205	203	202	MAR	202	206	210	214
	APR	216	218	222	226	MAY	232	231	230	231	JUN	229	228	227	227
	JUL	223	223	221	218	AUG	217	216	214	213	SEP	213	212	210	207
	OCT	206	204	203	203	NOV	204	203	205	206	DEC	206	206	207	206
1922	JAN	200	198	196	194	FEB	192	190	189	189	MAR	190	192	195	200
	APR	206	212	216	218	MAY	224	224	226	228	JUN	227	226	227	226
	JUL	222	221	220	219	AUG	220	218	215	214	SEP	216	216	215	212
	OCT	211	209	205	202	NOV	201	200	198	195	DEC	194	194	193	193
1923	JAN	192	192	190	189	FEB	186	183	182	181	MAR	183	185	188	192
	APR	192	194	196	197	MAY	203	205	208	211	JUN	210	211	210	210
	JUL	206	206	206	204	AUG	204	202	200	197	SEP	198	198	197	197
	OCT	196	192	191	189	NOV	189	189	188	187	DEC	189	193	195	198
1924	JAN	193	193	193	194	FEB	193	193	191	188	MAR	188	188	189	192
	APR	194	196	201	202	MAY	209	211	212	212	JUN	212	212	213	216
	JUL	213	212	211	210	AUG	210	209	206	203	SEP	204	204	202	201
	OCT	202	202	199	196	NOV	194	192	188	186	DEC	186	186	187	186
1925	JAN	182	180	178	176	FEB	174	174	175	177	MAR	180	182	185	189
	APR	188	188	189	190	MAY	195	194	193	192	JUN	189	189	189	189
	JUL	185	185	184	183	AUG	184	185	185	183	SEP	182	183	183	182
	OCT	181	177	175	175	NOV	175	175	176	178	DEC	178	177	175	172
1926	JAN	166	165	163	162	FEB	161	159	158	157	MAR	159	160	161	165
	APR	169	177	179	179	MAY	185	185	184	184	JUN	183	185	186	186
	JUL	182	182	181	181	AUG	183	185	186	184	SEP	185	186	188	192
	OCT	196	196	194	194	NOV	195	195	195	196	DEC	197	196	194	193
1927	JAN	188	185	182	181	FEB	180	180	179	179	MAR	180	181	186	192
	APR	193	194	194	195	MAY	201	203	206	208	JUN	208	208	208	208
	JUL	204	204	205	205	AUG	206	204	202	200	SEP	200	199	197	195
	OCT	195	194	192	190	NOV	190	189	190	197	DEC	202	204	207	208

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1928	JAN	204	205	205	203	FEB	202	201	201	200	MAR	198	196	194	196
	APR	198	200	202	203	MAY	208	208	210	211	JUN	212	214	217	220
	JUL	218	219	220	220	AUG	221	220	218	215	SEP	214	212	210	207
	OCT	207	207	207	207	NOV	207	207	208	209	DEC	210	211	212	212
1929	JAN	207	206	210	213	FEB	211	210	209	210	MAR	215	218	223	228
	APR	232	237	242	248	MAY	257	259	260	260	JUN	258	256	256	256
	JUL	252	253	251	249	AUG	248	246	243	241	SEP	240	238	235	233
	OCT	232	229	228	228	NOV	228	228	229	228	DEC	227	228	230	230
1930	JAN	230	240	242	239	FEB	234	232	230	233	MAR	238	239	240	242
	APR	242	242	244	244	MAY	248	247	246	244	JUN	242	241	241	241
	JUL	236	234	233	231	AUG	230	227	224	223	SEP	223	221	219	218
	OCT	216	215	213	210	NOV	210	209	207	204	DEC	205	206	205	203
1931	JAN	198	198	196	194	FEB	192	189	188	186	MAR	185	183	182	184
	APR	186	188	190	192	MAY	199	200	201	201	JUN	201	203	203	202
	JUL	200	200	199	199	AUG	199	198	196	194	SEP	193	193	192	191
	OCT	191	190	188	186	NOV	185	185	187	186	DEC	186	186	187	190
1932	JAN	189	192	196	200	FEB	200	201	203	203	MAR	203	201	199	198
	APR	198	199	201	201	MAY	207	210	210	210	JUN	209	209	207	206
	JUL	202	202	202	201	AUG	201	199	197	196	SEP	196	194	192	189
	OCT	187	185	184	184	NOV	185	185	184	184	DEC	184	183	182	184
1933	JAN	184	185	186	188	FEB	187	185	183	182	MAR	184	186	190	193
	APR	194	198	200	201	MAY	208	211	213	214	JUN	212	211	209	208
	JUL	203	202	200	199	AUG	199	198	196	193	SEP	192	191	188	187
	OCT	187	185	183	181	NOV	180	177	176	176	DEC	176	177	177	177
1934	JAN	172	171	169	167	FEB	164	163	161	159	MAR	161	161	162	163
	APR	165	169	173	174	MAY	180	180	180	180	JUN	179	178	179	180
	JUL	176	176	175	174	AUG	175	176	175	172	SEP	172	173	173	173
	OCT	172	169	167	166	NOV	165	164	164	165	DEC	165	165	164	165

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1935	JAN	161	162	163	162	FEB	159	158	158	158	MAR	161	164	167	169
	APR	169	170	171	172	MAY	179	182	183	184	JUN	184	184	185	186
	JUL	183	183	183	183	AUG	185	186	185	182	SEP	180	180	178	176
	OCT	174	173	173	172	NOV	173	173	172	171	DEC	171	172	173	170
1936	JAN	164	161	158	155	FEB	153	151	150	152	MAR	157	160	165	171
	APR	175	177	179	180	MAY	187	188	188	187	JUN	186	186	185	185
	JUL	181	181	180	178	AUG	178	177	176	175	SEP	175	176	175	174
	OCT	175	175	174	173	NOV	174	173	172	170	DEC	170	169	168	170
1937	JAN	169	173	181	187	FEB	188	189	190	189	MAR	189	188	187	187
	APR	186	189	195	202	MAY	210	209	209	209	JUN	207	208	211	215
	JUL	212	212	212	211	AUG	210	209	208	205	SEP	204	200	195	192
	OCT	191	188	187	186	NOV	185	184	182	181	DEC	179	178	179	180
1938	JAN	177	177	175	173	FEB	173	177	184	188	MAR	190	189	191	196
	APR	199	202	204	203	MAY	208	207	209	210	JUN	209	210	210	210
	JUL	206	206	206	206	AUG	208	208	206	203	SEP	202	201	201	199
	OCT	198	196	194	192	NOV	192	190	190	189	DEC	189	189	188	186
1939	JAN	181	183	183	182	FEB	180	179	180	182	MAR	185	188	188	190
	APR	191	194	200	204	MAY	210	209	208	208	JUN	208	208	208	209
	JUL	206	205	203	203	AUG	205	204	202	200	SEP	200	198	196	194
	OCT	194	192	189	189	NOV	189	188	187	186	DEC	186	186	185	183
1940	JAN	178	176	174	172	FEB	169	169	170	170	MAR	172	173	174	176
	APR	179	185	190	193	MAY	198	199	200	203	JUN	204	205	206	207
	JUL	204	204	203	203	AUG	202	201	200	200	SEP	202	200	198	197
	OCT	197	196	194	192	NOV	191	189	188	188	DEC	188	190	193	196
1941	JAN	195	196	194	192	FEB	188	186	184	182	MAR	183	182	182	182
	APR	183	185	185	186	MAY	192	192	193	194	JUN	193	194	194	194
	JUL	189	189	188	188	AUG	189	187	185	184	SEP	185	183	181	179
	OCT	179	179	178	177	NOV	177	177	178	178	DEC	178	177	176	176

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1942	JAN	175	173	172	172	FEB	174	175	175	174	MAR	173	176	183	189
	APR	192	197	200	201	MAY	206	207	209	212	JUN	213	214	215	214
	JUL	210	209	210	211	AUG	212	211	209	207	SEP	207	206	204	202
	OCT	202	202	202	200	NOV	201	200	201	203	DEC	202	201	200	204
1943	JAN	206	206	203	199	FEB	197	198	197	198	MAR	199	199	203	207
	APR	207	208	210	215	MAY	223	228	236	242	JUN	243	244	244	243
	JUL	240	241	241	240	AUG	240	238	235	232	SEP	232	230	227	224
	OCT	223	220	219	219	NOV	218	217	216	214	DEC	214	212	209	207
1944	JAN	201	198	194	193	FEB	192	192	191	192	MAR	194	194	196	199
	APR	201	209	216	219	MAY	225	226	228	229	JUN	228	227	227	228
	JUL	223	221	218	216	AUG	216	216	214	212	SEP	211	210	209	208
	OCT	208	206	204	201	NOV	201	201	201	199	DEC	198	198	197	197
1945	JAN	193	192	189	186	FEB	183	182	182	185	MAR	192	196	202	207
	APR	210	212	212	213	MAY	220	221	226	230	JUN	229	230	233	235
	JUL	231	230	229	229	AUG	229	227	225	222	SEP	220	219	218	221
	OCT	226	225	224	223	NOV	222	219	218	218	DEC	218	215	213	213
1946	JAN	210	212	212	207	FEB	202	200	199	198	MAR	201	205	209	211
	APR	210	209	209	209	MAY	214	215	218	220	JUN	221	224	228	230
	JUL	226	224	223	222	AUG	221	218	217	214	SEP	212	210	209	207
	OCT	205	204	203	202	NOV	202	201	199	198	DEC	197	196	196	196
1947	JAN	192	192	191	193	FEB	195	193	190	188	MAR	188	188	191	195
	APR	202	210	216	221	MAY	229	232	235	238	JUN	242	247	247	245
	JUL	239	238	236	235	AUG	235	234	232	232	SEP	233	230	226	223
	OCT	220	218	218	217	NOV	216	213	211	209	DEC	209	209	210	210
1948	JAN	206	205	203	200	FEB	196	195	196	200	MAR	203	203	210	218
	APR	220	223	224	225	MAY	232	236	238	238	JUN	236	234	234	234
	JUL	230	228	227	225	AUG	223	221	220	219	SEP	218	215	212	209
	OCT	206	203	202	201	NOV	201	200	200	200	DEC	199	198	198	197

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1949	JAN	194	196	199	201	FEB	201	201	204	207	MAR	210	208	207	207
	APR	208	208	209	209	MAY	214	213	215	216	JUN	213	212	212	212
	JUL	208	206	205	204	AUG	204	202	200	197	SEP	198	196	193	191
	OCT	192	192	190	187	NOV	186	184	184	183	DEC	183	182	184	187
1950	JAN	188	194	199	204	FEB	205	208	212	210	MAR	208	208	210	215
	APR	221	224	224	226	MAY	231	230	229	228	JUN	226	226	225	223
	JUL	218	217	216	216	AUG	215	212	209	209	SEP	211	210	208	206
	OCT	205	205	205	204	NOV	203	202	203	205	DEC	210	214	213	211
1951	JAN	208	210	210	209	FEB	207	206	210	214	MAR	219	222	224	227
	APR	228	231	232	234	MAY	240	241	242	241	JUN	239	239	239	239
	JUL	234	232	232	230	AUG	230	228	226	223	SEP	222	221	220	217
	OCT	217	216	214	214	NOV	214	216	216	216	DEC	218	220	220	222
1952	JAN	221	224	228	234	FEB	238	241	241	240	MAR	240	242	246	248
	APR	247	250	253	253	MAY	257	256	257	258	JUN	257	255	253	251
	JUL	247	245	244	242	AUG	241	240	239	238	SEP	238	236	235	233
	OCT	230	226	223	219	NOV	217	216	216	216	DEC	218	218	219	220
1953	JAN	216	217	218	220	FEB	219	218	217	218	MAR	221	223	224	226
	APR	226	227	227	228	MAY	234	234	237	240	JUN	240	240	239	238
	JUL	234	232	231	230	AUG	231	230	228	226	SEP	225	222	219	217
	OCT	216	214	213	210	NOV	209	208	207	208	DEC	207	206	206	204
1954	JAN	201	200	198	198	FEB	195	194	197	202	MAR	205	207	208	213
	APR	218	222	227	232	MAY	237	236	234	233	JUN	231	231	230	229
	JUL	224	223	222	220	AUG	221	219	219	218	SEP	218	216	214	213
	OCT	214	218	224	226	NOV	226	225	224	224	DEC	224	223	223	224
1955	JAN	225	228	226	223	FEB	220	219	219	222	MAR	228	232	235	236
	APR	235	235	237	240	MAY	244	242	240	240	JUN	238	237	235	233
	JUL	228	227	225	224	AUG	224	224	223	220	SEP	218	216	214	211
	OCT	211	212	212	209	NOV	208	206	206	206	DEC	206	206	206	206

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1956	JAN	200	197	191	186	FEB	182	182	181	183	MAR	190	195	198	200
	APR	203	206	207	210	MAY	220	228	234	234	JUN	232	232	231	231
	JUL	226	226	226	225	AUG	226	226	225	224	SEP	224	222	219	215
	OCT	213	210	209	207	NOV	206	202	200	198	DEC	199	201	201	200
1957	JAN	195	193	192	192	FEB	190	191	192	193	MAR	195	196	197	198
	APR	201	208	212	214	MAY	219	219	221	222	JUN	220	220	219	221
	JUL	220	222	222	220	AUG	218	215	213	210	SEP	209	208	208	206
	OCT	203	200	199	198	NOV	196	195	195	195	DEC	196	197	199	203
1958	JAN	199	198	196	192	FEB	188	185	183	182	MAR	185	186	187	187
	APR	187	188	189	190	MAY	196	196	196	196	JUN	195	196	197	198
	JUL	196	198	199	198	AUG	199	200	199	196	SEP	196	194	194	194
	OCT	191	188	187	186	NOV	184	182	183	182	DEC	181	179	178	178
1959	JAN	172	170	172	175	FEB	175	178	180	182	MAR	184	186	188	192
	APR	195	198	198	200	MAY	208	209	210	211	JUN	209	208	205	205
	JUL	200	198	197	196	AUG	196	194	192	193	SEP	193	190	186	185
	OCT	189	189	187	186	NOV	187	187	187	187	DEC	187	190	194	196
1960	JAN	193	194	197	197	FEB	196	196	197	197	MAR	198	197	196	198
	APR	202	205	207	209	MAY	215	217	219	220	JUN	220	222	224	225
	JUL	221	220	220	219	AUG	220	219	219	217	SEP	217	214	212	210
	OCT	208	205	203	200	NOV	198	197	196	196	DEC	195	192	190	190
1961	JAN	186	186	185	183	FEB	181	181	183	187	MAR	193	197	200	201
	APR	201	204	209	217	MAY	228	228	228	226	JUN	225	225	224	224
	JUL	218	217	216	216	AUG	218	216	214	213	SEP	214	212	209	206
	OCT	205	202	199	197	NOV	195	193	194	193	DEC	192	192	191	190
1962	JAN	183	182	181	181	FEB	181	180	179	180	MAR	182	185	189	192
	APR	193	194	195	195	MAY	201	201	201	201	JUN	200	201	202	201
	JUL	196	195	195	194	AUG	195	194	192	191	SEP	191	189	187	186
	OCT	188	188	187	184	NOV	184	186	185	184	DEC	184	184	182	181

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1963	JAN	176	174	172	170	FEB	168	167	166	164	MAR	166	170	176	181
	APR	184	184	186	188	MAY	194	194	193	194	JUN	192	192	191	190
	JUL	184	183	183	183	AUG	184	183	182	180	SEP	180	179	177	175
	OCT	174	172	171	170	NOV	170	168	168	167	DEC	166	165	164	164
1964	JAN	160	160	159	158	FEB	158	158	157	156	MAR	159	163	166	169
	APR	171	174	176	179	MAY	186	187	187	186	JUN	184	184	184	184
	JUL	179	178	178	176	AUG	176	175	174	175	SEP	175	172	170	169
	OCT	167	164	162	162	NOV	162	161	159	158	DEC	159	159	160	161
1965	JAN	159	160	161	160	FEB	159	161	165	166	MAR	171	175	176	177
	APR	177	179	182	184	MAY	190	191	190	190	JUN	190	189	188	188
	JUL	184	183	181	180	AUG	181	180	180	179	SEP	179	179	179	178
	OCT	176	175	176	176	NOV	176	176	176	175	DEC	176	177	179	181
1966	JAN	179	179	178	177	FEB	175	177	179	180	MAR	183	186	188	190
	APR	189	190	191	195	MAY	201	202	204	204	JUN	201	203	204	204
	JUL	199	198	197	196	AUG	196	195	195	194	SEP	194	191	189	187
	OCT	184	181	180	178	NOV	179	182	182	182	DEC	186	192	196	195
1967	JAN	189	189	188	189	FEB	190	189	188	188	MAR	188	190	192	195
	APR	197	200	202	203	MAY	210	214	215	214	JUN	211	211	211	212
	JUL	209	208	208	207	AUG	208	206	204	202	SEP	202	199	198	197
	OCT	198	197	196	196	NOV	196	197	197	197	DEC	198	200	203	205
1968	JAN	200	200	200	202	FEB	207	209	207	206	MAR	206	205	208	211
	APR	212	213	213	212	MAY	216	217	218	221	JUN	222	221	220	221
	JUL	220	219	218	217	AUG	218	217	216	215	SEP	214	212	211	208
	OCT	207	205	204	202	NOV	202	201	201	203	DEC	207	207	205	207
1969	JAN	205	203	203	208	FEB	211	213	212	211	MAR	211	209	209	211
	APR	215	219	223	227	MAY	232	234	239	242	JUN	241	242	242	242
	JUL	240	242	243	243	AUG	242	239	237	234	SEP	232	228	225	223
	OCT	222	220	217	214	NOV	213	212	212	213	DEC	214	215	215	212

TABLE C-11 (CONTINUED)

LAKE ERIE QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1970	JAN	204	200	198	197	FEB	197	198	197	196	MAR	199	201	202	204
	APR	206	210	212	214	MAY	220	221	223	224	JUN	223	224	224	224
	JUL	220	221	222	223	AUG	223	220	218	216	SEP	216	215	215	215
	OCT	214	214	214	213	NOV	215	214	212	212	DEC	214	215	216	216
1971	JAN	211	210	209	206	FEB	205	206	208	212	MAR	218	220	221	223
	APR	222	222	223	223	MAY	228	228	229	230	JUN	230	231	231	230
	JUL	226	224	222	222	AUG	222	221	221	221	SEP	223	223	222	222
	OCT	225	227	226	224	NOV	221	218	217	216	DEC	216	216	217	220
1972	JAN	217	216	215	214	FEB	212	212	212	213	MAR	216	220	223	226
	APR	224	226	232	236	MAY	242	244	244	244	JUN	242	241	244	247
	JUL	242	242	242	241	AUG	240	239	238	238	SEP	238	236	235	237
	OCT	238	236	233	232	NOV	235	239	240	240	DEC	242	244	246	247
1973	JAN	244	243	242	243	FEB	244	243	241	239	MAR	240	246	254	259
	APR	260	261	259	260	MAY	266	265	266	266	JUN	268	271	271	271
	JUL	268	266	262	261	AUG	262	260	258	256	SEP	255	252	247	245
	OCT	246	245	241	239	NOV	239	238	238	238	DEC	239	239	239	240
1974	JAN	237	236	238	242	FEB	245	246	245	246	MAR	253	258	258	259
	APR	261	264	263	262	MAY	266	268	270	271	JUN	268	267	267	267
	JUL	262	261	258	255	AUG	254	253	252	249	SEP	247	244	242	241
	OCT	239	236	235	232	NOV	234	234	234	237	DEC	238	238	239	240
1975	JAN	237	238	238	240	FEB	240	239	239	244	MAR	250	250	251	252
	APR	250	249	250	251	MAY	257	256	256	256	JUN	256	257	257	257
	JUL	252	250	248	246	AUG	246	246	245	249	SEP	252	249	247	246
	OCT	245	242	241	239	NOV	238	237	236	234	DEC	235	237	237	238
1976	JAN	232	231	231	230	FEB	226	225	232	242	MAR	252	258	258	258
	APR	258	256	256	257	MAY	263	263	263	263	JUN	260	258	258	259
	JUL	255	254	255	254	AUG	253	251	249	246	SEP	243	241	240	238
	OCT	239	235	231	229	NOV	228	225	222	219	DEC	218	218	216	214

TABLE C-12

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	182	183	192	198	207	206	202	203	200	196	194	195
1901	190	182	181	187	193	200	200	199	199	194	192	192
1902	187	178	185	194	206	209	219	221	215	214	208	204
1903	198	199	210	224	229	226	222	218	217	211	204	199
1904	192	194	207	227	236	239	233	227	223	217	210	205
1905	196	189	189	202	218	228	225	223	220	215	209	210
1906	207	206	203	209	219	221	219	219	215	212	211	217
1907	221	214	210	217	225	231	229	224	220	220	216	214
1908	216	209	219	230	239	238	230	228	220	212	202	197
1909	193	193	201	205	226	231	224	220	213	203	201	198
1910	191	188	198	205	219	219	212	210	206	204	197	195
1911	186	184	185	192	203	203	196	194	193	194	190	196
1912	191	186	189	207	219	220	215	215	216	212	209	202
1913	212	216	216	247	249	244	235	228	219	214	212	212
1914	206	200	197	210	229	230	222	219	216	210	201	198
1915	190	192	194	193	201	203	204	211	211	208	200	198
1916	204	209	207	217	231	239	235	228	219	212	209	208
1917	206	199	204	222	235	244	248	243	237	230	232	225
1918	206	199	212	208	212	218	217	217	217	214	212	214
1919	210	209	216	227	244	245	236	231	224	219	216	209
1920	194	182	184	199	216	218	218	218	215	209	209	210
1921	206	204	208	220	231	228	221	215	210	204	204	206
1922	197	190	194	213	226	227	220	217	214	207	198	194
1923	191	183	187	195	207	210	206	201	197	192	188	194
1924	193	191	189	199	211	213	212	207	203	200	190	186
1925	179	175	184	189	193	189	184	184	182	177	176	175
1926	164	159	161	176	185	185	182	185	188	195	195	195
1927	184	179	184	194	204	208	204	203	198	193	191	205
1928	204	201	196	201	209	216	219	218	211	207	208	211
1929	209	210	221	240	259	256	251	244	237	229	228	228
1930	238	232	239	243	246	241	233	226	220	214	207	205
1931	197	189	183	189	200	202	199	197	192	189	186	187
1932	194	202	200	200	209	208	202	198	193	185	184	183
1933	186	184	188	198	211	210	201	196	189	184	177	177

TABLE C-12 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	170	162	162	170	180	179	175	174	173	168	164	165
1935	162	158	165	170	182	185	183	185	179	173	172	172
1936	160	152	163	178	187	185	180	177	175	174	172	169
1937	177	189	188	193	209	210	212	208	198	188	183	179
1938	176	180	191	202	208	209	206	206	201	195	190	188
1939	182	180	188	197	209	208	204	203	197	191	188	185
1940	175	169	174	187	200	206	203	201	199	194	189	192
1941	194	185	182	185	193	194	189	186	182	178	178	178
1942	173	174	180	198	209	214	210	210	205	202	201	202
1943	204	197	202	210	232	244	240	236	228	220	216	210
1944	197	192	196	211	227	227	220	214	210	205	200	197
1945	190	183	199	212	224	232	230	225	220	224	219	215
1946	210	200	207	209	217	226	224	217	209	204	200	196
1947	192	191	190	212	234	245	237	233	228	218	212	210
1948	204	197	208	223	236	234	228	221	214	203	200	198
1949	198	203	208	208	215	212	206	201	194	190	184	184
1950	196	209	210	224	229	225	217	211	209	205	203	212
1951	209	209	223	231	241	239	232	227	220	215	216	220
1952	227	240	244	251	257	254	245	239	235	224	216	219
1953	218	218	224	227	236	239	232	228	221	213	208	206
1954	199	197	209	225	235	230	222	219	215	220	225	223
1955	225	220	233	237	242	236	226	223	215	211	206	205
1956	194	182	196	207	229	232	226	225	220	210	202	200
1957	193	192	196	209	220	220	221	214	208	200	195	199
1958	196	184	186	189	196	197	198	198	195	188	183	179
1959	172	179	188	198	210	207	198	194	188	188	187	192
1960	195	197	197	206	218	223	220	219	213	204	197	192
1961	185	183	198	208	228	224	217	215	211	201	194	191
1962	182	180	187	194	201	201	195	193	188	187	185	183
1963	173	166	173	186	194	191	184	182	178	172	168	165
1964	159	157	164	175	186	184	178	175	172	164	160	160
1965	160	163	175	180	190	189	182	180	179	176	176	178
1966	178	178	186	191	203	203	198	195	190	180	182	193
1967	189	189	191	201	213	211	208	205	199	197	197	202

TABLE C-12 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	201	207	207	213	218	221	219	217	211	204	202	206
1969	205	212	210	221	237	242	242	238	227	218	213	214
1970	200	197	202	211	222	224	222	219	215	214	213	215
1971	209	208	220	222	229	231	224	221	222	225	218	218
1972	215	212	221	230	244	244	242	239	236	235	239	245
1973	243	242	250	260	266	270	264	259	250	243	238	239
1974	238	245	257	262	269	268	259	252	244	236	235	239
1975	238	240	251	250	256	257	249	246	249	242	236	237
1976	231	231	256	257	263	259	254	250	241	233	223	216

TABLE C-13

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1900	JAN	210	210	210	212	FEB	207	207	217	222	MAR	231	234	227	213
	APR	207	221	241	248	MAY	247	246	240	231	JUN	213	211	213	216
	JUL	218	218	217	214	AUG	215	216	223	227	SEP	240	252	241	242
	OCT	248	245	246	240	NOV	234	238	218	228	DEC	248	253	255	250
1901	JAN	220	220	220	220	FEB	229	228	216	207	MAR	204	204	204	204
	APR	224	239	242	251	MAY	256	252	254	250	JUN	251	257	258	260
	JUL	260	257	253	248	AUG	246	242	233	238	SEP	249	250	250	247
	OCT	246	238	231	235	NOV	221	221	221	220	DEC	219	219	210	230
1902	JAN	220	218	214	220	FEB	222	209	207	207	MAR	204	224	234	244
	APR	240	239	247	239	MAY	235	228	224	217	JUN	224	214	212	212
	JUL	222	242	262	276	AUG	286	293	295	293	SEP	293	288	286	282
	OCT	278	277	270	268	NOV	259	257	253	251	DEC	246	227	221	217
1903	JAN	212	211	210	210	FEB	220	230	234	229	MAR	235	245	259	264
	APR	263	272	276	274	MAY	286	273	273	267	JUN	262	252	252	245
	JUL	251	255	256	258	AUG	265	266	268	267	SEP	272	276	279	271
	OCT	265	262	264	264	NOV	259	253	237	226	DEC	223	222	210	210
1904	JAN	210	210	210	210	FEB	207	210	212	216	MAR	222	223	229	235
	APR	252	263	270	274	MAY	277	280	282	285	JUN	287	289	290	289
	JUL	289	289	309	288	AUG	307	303	301	303	SEP	300	301	294	285
	OCT	281	280	277	276	NOV	269	265	241	229	DEC	216	214	210	210
1905	JAN	210	210	210	210	FEB	212	207	207	207	MAR	204	204	204	204
	APR	190	210	219	216	MAY	208	224	231	229	JUN	237	244	253	261
	JUL	266	277	278	279	AUG	282	285	293	291	SEP	291	290	291	282
	OCT	275	275	272	267	NOV	264	259	243	241	DEC	233	233	230	231
1906	JAN	220	220	220	220	FEB	240	255	253	249	MAR	249	247	243	239
	APR	235	235	238	235	MAY	233	229	223	222	JUN	216	227	229	232
	JUL	241	245	249	254	AUG	258	261	264	262	SEP	260	257	259	256
	OCT	250	249	248	254	NOV	256	259	256	260	DEC	257	257	250	246

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1907	JAN	220	220	220	220	FEB	240	260	260	257	MAR	256	253	251	253
	APR	256	256	252	250	MAY	249	251	237	238	JUN	241	245	244	245
	JUL	249	252	255	260	AUG	267	268	272	272	SEP	272	271	268	267
	OCT	269	271	270	268	NOV	268	274	268	274	DEC	273	257	243	240
1908	JAN	220	220	220	220	FEB	240	259	259	261	MAR	262	262	263	269
	APR	273	278	282	283	MAY	285	290	295	298	JUN	298	296	297	297
	JUL	296	298	297	299	AUG	298	300	298	289	SEP	280	273	268	264
	OCT	261	254	249	250	NOV	244	224	224	215	DEC	215	214	210	210
1909	JAN	210	210	210	210	FEB	207	207	210	211	MAR	220	225	221	220
	APR	215	215	232	238	MAY	247	258	270	275	JUN	275	274	275	272
	JUL	273	275	277	279	AUG	281	276	274	268	SEP	268	259	257	257
	OCT	251	245	241	235	NOV	223	222	221	221	DEC	221	221	210	210
1910	JAN	210	210	210	210	FEB	207	208	207	207	MAR	205	225	230	234
	APR	228	230	234	232	MAY	238	245	245	246	JUN	248	247	246	244
	JUL	241	242	244	246	AUG	249	249	251	255	SEP	254	259	258	254
	OCT	253	254	251	251	NOV	246	242	239	221	DEC	221	221	210	210
1911	JAN	210	210	210	210	FEB	207	207	209	213	MAR	214	206	208	204
	APR	191	189	192	196	MAY	198	196	203	206	JUN	210	211	213	216
	JUL	217	219	221	221	AUG	223	223	223	223	SEP	222	223	224	223
	OCT	223	222	221	228	NOV	230	233	235	235	DEC	233	227	238	246
1912	JAN	220	220	220	220	FEB	232	229	225	226	MAR	227	224	218	224
	APR	222	234	245	251	MAY	256	259	265	266	JUN	271	273	275	274
	JUL	272	286	285	285	AUG	284	276	275	275	SEP	273	270	269	269
	OCT	269	267	267	270	NOV	265	268	270	271	DEC	269	268	253	239
1913	JAN	220	220	220	220	FEB	240	260	260	266	MAR	266	262	264	268
	APR	276	284	287	288	MAY	290	290	291	291	JUN	293	293	297	291
	JUL	287	284	280	276	AUG	274	275	273	273	SEP	272	268	264	261
	OCT	259	254	251	251	NOV	250	250	251	253	DEC	247	241	225	226

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1914	JAN	219	210	210	210	FEB	229	232	232	228	MAR	221	223	220	220
	APR	230	241	242	252	MAY	253	256	259	258	JUN	259	259	261	260
	JUL	260	260	258	254	AUG	251	248	252	254	SEP	257	260	262	263
	OCT	256	253	252	251	NOV	245	238	229	224	DEC	224	221	210	210
1915	JAN	210	210	210	210	FEB	211	216	216	221	MAR	228	231	228	224
	APR	213	196	210	190	MAY	188	188	200	203	JUN	208	211	214	215
	JUL	217	220	221	221	AUG	222	224	240	260	SEP	268	268	272	270
	OCT	268	264	262	263	NOV	257	250	248	238	DEC	225	223	210	210
1916	JAN	215	220	220	220	FEB	240	245	246	243	MAR	244	245	242	239
	APR	243	255	259	265	MAY	268	268	274	279	JUN	281	287	290	294
	JUL	295	295	310	310	AUG	310	307	303	298	SEP	287	282	272	263
	OCT	255	248	246	248	NOV	234	228	228	222	DEC	220	220	210	210
1917	JAN	210	210	210	210	FEB	215	217	216	219	MAR	218	220	225	233
	APR	239	251	269	271	MAY	267	267	261	260	JUN	260	267	276	278
	JUL	279	294	283	303	AUG	308	306	305	302	SEP	301	302	296	293
	OCT	290	284	278	277	NOV	287	285	280	278	DEC	262	261	254	250
1918	JAN	219	219	218	218	FEB	221	215	225	242	MAR	246	248	253	259
	APR	267	270	270	267	MAY	264	255	253	249	JUN	244	241	240	239
	JUL	241	246	247	248	AUG	248	248	252	249	SEP	248	257	260	261
	OCT	260	259	260	263	NOV	268	272	268	272	DEC	257	251	238	240
1919	JAN	220	220	220	220	FEB	240	251	251	249	MAR	248	248	251	255
	APR	256	257	259	262	MAY	267	270	271	288	JUN	293	294	295	292
	JUL	291	303	302	300	AUG	299	291	289	288	SEP	282	274	268	265
	OCT	261	257	254	255	NOV	253	256	249	237	DEC	225	224	210	214
1920	JAN	210	210	210	210	FEB	211	208	209	207	MAR	204	204	204	212
	APR	213	206	194	188	MAY	195	189	207	211	JUN	214	217	218	219
	JUL	220	221	220	219	AUG	237	246	259	262	SEP	264	268	272	267
	OCT	265	264	262	262	NOV	260	259	251	254	DEC	254	258	244	244

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1921	JAN	220	220	220	220	FEB	240	250	251	250	MAR	250	254	256	258
	APR	257	261	262	265	MAY	260	263	256	252	JUN	251	247	245	242
	JUL	239	241	242	242	AUG	242	234	239	239	SEP	235	239	231	224
	OCT	223	224	229	236	NOV	222	228	233	239	DEC	236	238	223	234
1922	JAN	214	212	213	210	FEB	208	218	218	217	MAR	221	227	231	233
	APR	230	237	254	262	MAY	263	264	265	266	JUN	264	262	267	267
	JUL	274	285	284	280	AUG	276	276	273	268	SEP	267	266	266	263
	OCT	255	249	246	243	NOV	227	223	223	221	DEC	215	213	210	210
1923	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	208	194	MAY	192	188	203	204	JUN	205	222	237	229
	JUL	236	238	236	236	AUG	231	233	237	242	SEP	240	245	240	238
	OCT	231	225	223	222	NOV	221	226	219	220	DEC	224	238	239	237
1924	JAN	220	220	220	220	FEB	233	235	234	235	MAR	227	228	228	223
	APR	218	224	221	235	MAY	236	237	245	250	JUN	253	253	253	253
	JUL	255	257	258	259	AUG	262	261	265	261	SEP	259	254	252	248
	OCT	258	255	253	251	NOV	243	237	228	222	DEC	215	215	210	210
1925	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	210	217	227
	APR	225	221	230	233	MAY	223	222	213	207	JUN	209	214	214	214
	JUL	216	217	217	219	AUG	219	219	221	221	SEP	220	222	222	221
	OCT	219	217	214	213	NOV	211	211	214	230	DEC	224	234	227	220
1926	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	188	188	MAY	196	199	198	202	JUN	204	208	212	213
	JUL	215	215	216	217	AUG	217	220	221	222	SEP	222	222	222	232
	OCT	251	257	252	254	NOV	257	260	261	272	DEC	271	270	246	254
1927	JAN	220	220	220	220	FEB	240	239	237	235	MAR	238	238	241	245
	APR	244	244	237	232	MAY	[illegible]	224	207	213	JUN	215	215	216	216
	JUL	217	218	218	219	AUG	227	235	239	233	SEP	239	239	238	231
	OCT	233	240	242	239	NOV	236	234	229	247	DEC	259	270	238	240

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1928	JAN	220	220	220	220	FEB	240	260	260	261	MAR	261	259	257	256
	APR	255	259	264	265	MAY	266	267	255	251	JUN	249	250	249	250
	JUL	257	261	265	267	AUG	272	276	279	280	SEP	282	279	278	268
	OCT	265	259	255	263	NOV	257	256	255	261	DEC	257	259	254	237
1929	JAN	220	220	220	220	FEB	240	260	260	258	MAR	257	258	263	268
	APR	268	279	284	288	MAY	293	297	302	305	JUN	306	304	304	303
	JUL	302	302	310	297	AUG	310	310	310	303	SEP	297	293	293	287
	OCT	283	281	275	273	NOV	271	269	268	269	DEC	266	248	247	250
1930	JAN	220	220	220	220	FEB	240	260	260	275	MAR	278	280	280	280
	APR	290	294	296	296	MAY	297	297	298	298	JUN	296	288	287	285
	JUL	288	289	291	289	AUG	284	281	275	271	SEP	271	267	266	262
	OCT	259	252	249	246	NOV	226	222	222	220	DEC	217	218	210	210
1931	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	188	188	MAY	188	188	198	204	JUN	210	216	219	220
	JUL	221	222	222	222	AUG	222	223	223	222	SEP	223	223	223	223
	OCT	222	219	217	216	NOV	213	212	211	212	DEC	210	210	210	210
1932	JAN	210	210	210	220	FEB	238	239	241	245	MAR	245	246	243	242
	APR	239	247	254	255	MAY	257	255	259	252	JUN	249	243	237	224
	JUL	223	230	230	222	AUG	228	235	231	232	SEP	236	230	230	227
	OCT	220	224	217	217	NOV	215	217	235	244	DEC	233	236	216	213
1933	JAN	218	216	211	220	FEB	220	211	210	207	MAR	204	204	204	207
	APR	195	209	227	238	MAY	237	242	244	242	JUN	238	239	230	218
	JUL	219	221	221	222	AUG	222	221	221	221	SEP	221	222	222	222
	OCT	220	216	214	211	NOV	207	205	202	201	DEC	210	210	210	210
1934	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	188	188	MAY	188	188	188	188	JUN	190	191	195	197
	JUL	199	200	201	200	AUG	201	200	201	201	SEP	199	200	203	202
	OCT	201	197	194	193	NOV	198	198	198	198	DEC	210	210	210	210

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1935	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	188	188	MAY	188	188	188	188	JUN	190	190	192	199
	JUL	201	204	207	208	AUG	209	209	211	211	SEP	209	210	210	207
	OCT	204	201	199	197	NOV	198	198	198	198	DEC	210	210	210	210
1936	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	189	193	201	MAY	198	191	211	220	JUN	211	210	212	211
	JUL	211	212	212	211	AUG	211	210	211	211	SEP	212	212	213	210
	OCT	208	207	204	204	NOV	202	204	204	200	DEC	210	210	210	210
1937	JAN	210	210	210	210	FEB	219	223	224	226	MAR	231	232	228	225
	APR	205	201	198	216	MAY	230	232	212	222	JUN	220	216	218	223
	JUL	234	248	251	254	AUG	251	249	253	248	SEP	248	249	236	222
	OCT	222	222	220	221	NOV	220	219	237	232	DEC	226	225	210	213
1938	JAN	210	210	210	210	FEB	207	207	224	230	MAR	232	235	232	239
	APR	239	240	251	247	MAY	248	241	235	229	JUN	214	216	218	219
	JUL	220	221	222	222	AUG	222	222	222	226	SEP	224	228	242	253
	OCT	259	255	255	252	NOV	244	239	232	226	DEC	216	216	210	210
1939	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	209	212	209
	APR	213	220	231	240	MAY	244	242	250	247	JUN	243	238	234	218
	JUL	218	221	220	220	AUG	221	221	221	219	SEP	221	222	222	222
	OCT	222	223	222	219	NOV	216	214	210	209	DEC	210	210	210	210
1940	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	188	188	MAY	188	193	203	215	JUN	235	240	245	245
	JUL	249	251	250	255	AUG	258	251	251	243	SEP	235	231	227	222
	OCT	233	227	233	223	NOV	218	218	217	217	DEC	218	218	215	221
1941	JAN	220	220	220	220	FEB	234	233	232	230	MAR	225	224	224	208
	APR	191	196	194	196	MAY	188	188	195	197	JUN	201	204	206	206
	JUL	208	210	210	210	AUG	214	214	215	215	SEP	215	217	217	213
	OCT	210	208	207	207	NOV	204	205	204	203	DEC	210	210	210	210

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1942	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	224
	APR	227	233	240	240	MAY	236	228	242	247	JUN	251	254	254	248
	JUL	245	235	229	236	AUG	246	253	255	255	SEP	250	251	252	249
	OCT	249	245	243	244	NOV	243	245	243	246	DEC	248	245	238	228
1943	JAN	220	220	220	220	FEB	240	249	251	250	MAR	253	254	252	257
	APR	256	260	262	263	MAY	266	273	281	289	JUN	296	298	300	299
	JUL	298	297	310	310	AUG	310	310	310	310	SEP	307	305	298	287
	OCT	281	271	265	266	NOV	269	271	270	268	DEC	265	254	237	219
1944	JAN	210	210	210	210	FEB	216	215	216	215	MAR	220	216	215	218
	APR	220	210	227	229	MAY	234	236	244	248	JUN	248	249	254	257
	JUL	264	266	266	267	AUG	268	259	260	257	SEP	253	255	254	253
	OCT	248	241	239	235	NOV	222	222	222	222	DEC	222	215	210	210
1945	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	217	224	238
	APR	245	251	266	264	MAY	267	270	272	274	JUN	284	286	278	286
	JUL	289	290	291	293	AUG	295	292	290	283	SEP	279	273	272	277
	OCT	283	293	296	297	NOV	295	292	288	286	DEC	285	284	259	261
1946	JAN	220	220	220	220	FEB	240	258	256	255	MAR	252	258	261	262
	APR	266	266	258	249	MAY	243	239	220	224	JUN	226	229	231	232
	JUL	236	238	240	242	AUG	242	242	247	248	SEP	247	243	244	244
	OCT	244	238	242	244	NOV	249	252	249	247	DEC	235	222	214	219
1947	JAN	219	213	220	220	FEB	240	252	247	245	MAR	242	243	240	239
	APR	244	256	263	268	MAY	271	276	280	284	JUN	289	299	305	305
	JUL	303	302	300	310	AUG	310	310	310	310	SEP	310	309	307	303
	OCT	292	282	276	271	NOV	266	264	262	257	DEC	240	235	236	226
1948	JAN	210	220	219	210	FEB	227	224	222	225	MAR	230	232	229	249
	APR	257	259	274	274	MAY	273	276	278	284	JUN	284	284	284	278
	JUL	278	276	268	268	AUG	270	263	263	262	SEP	260	258	254	250
	OCT	244	239	239	239	NOV	224	231	225	236	DEC	224	222	210	210

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1949	JAN	210	210	214	220	FEB	229	230	232	242	MAR	243	246	244	244
	APR	241	245	253	252	MAY	248	243	237	233	JUN	224	219	220	221
	JUL	220	218	220	222	AUG	222	223	222	223	SEP	223	223	223	222
	OCT	222	222	222	221	NOV	217	214	212	212	DEC	210	210	210	210
1950	JAN	210	210	210	220	FEB	235	234	241	244	MAR	244	243	238	244
	APR	248	261	281	287	MAY	269	281	279	275	JUN	271	267	266	262
	JUL	263	259	255	252	AUG	256	255	253	253	SEP	259	256	259	255
	OCT	248	245	251	252	NOV	249	254	249	252	DEC	254	260	252	249
1951	JAN	220	220	220	220	FEB	240	260	260	265	MAR	267	272	273	274
	APR	275	283	291	294	MAY	299	298	301	299	JUN	310	310	310	303
	JUL	300	305	301	301	AUG	295	286	286	281	SEP	280	278	279	275
	OCT	268	264	260	258	NOV	254	254	256	256	DEC	252	259	243	245
1952	JAN	220	220	220	220	FEB	240	260	260	279	MAR	277	279	280	280
	APR	285	295	299	300	MAY	303	301	304	307	JUN	309	307	308	310
	JUL	310	306	302	302	AUG	296	293	292	290	SEP	287	283	282	283
	OCT	278	273	268	261	NOV	255	241	233	247	DEC	238	235	243	250
1953	JAN	220	220	220	220	FEB	240	249	249	249	MAR	248	251	249	253
	APR	263	260	267	263	MAY	258	261	264	275	JUN	279	279	280	275
	JUL	273	271	267	269	AUG	272	271	272	266	SEP	266	264	260	260
	OCT	256	249	246	246	NOV	237	222	223	223	DEC	223	223	218	220
1954	JAN	210	210	210	210	FEB	219	217	215	233	MAR	244	253	252	251
	APR	253	255	266	272	MAY	277	282	284	291	JUN	289	287	280	278
	JUL	278	274	271	264	AUG	260	256	252	252	SEP	256	256	256	254
	OCT	253	252	258	267	NOV	270	277	275	278	DEC	283	274	239	238
1955	JAN	220	220	220	220	FEB	240	260	259	260	MAR	261	265	271	277
	APR	277	284	288	291	MAY	293	292	299	293	JUN	290	283	278	268
	JUL	263	264	261	258	AUG	257	253	265	262	SEP	261	257	255	249
	OCT	247	248	252	268	NOV	276	279	279	274	DEC	262	253	245	229

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1956	JAN	210	210	210	210	FEB	220	216	218	217	MAR	215	235	241	242
	APR	235	243	247	254	MAY	258	265	274	280	JUN	281	282	286	279
	JUL	279	279	278	277	AUG	274	268	267	263	SEP	269	272	267	264
	OCT	260	256	253	249	NOV	243	236	220	221	DEC	215	220	210	210
1957	JAN	210	210	210	210	FEB	222	221	220	218	MAR	223	224	226	232
	APR	224	224	227	225	MAY	228	208	213	219	JUN	221	219	220	220
	JUL	240	252	256	260	AUG	261	261	260	254	SEP	251	252	250	255
	OCT	247	237	229	220	NOV	219	218	219	217	DEC	217	217	210	210
1958	JAN	217	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	190	188	MAY	188	188	200	204	JUN	207	212	216	215
	JUL	217	218	219	219	AUG	219	220	221	221	SEP	220	221	221	241
	OCT	243	238	243	247	NOV	235	234	237	236	DEC	221	211	210	210
1959	JAN	210	210	210	210	FEB	207	207	207	207	MAR	207	222	214	226
	APR	227	239	254	253	MAY	257	253	258	259	JUN	260	256	252	246
	JUL	245	249	240	228	AUG	221	222	221	221	SEP	221	220	221	221
	OCT	221	220	220	218	NOV	217	216	216	215	DEC	215	223	228	242
1960	JAN	220	220	220	220	FEB	240	240	244	246	MAR	247	247	245	241
	APR	238	250	256	263	MAY	267	269	273	275	JUN	276	292	291	290
	JUL	290	273	283	278	AUG	272	267	264	263	SEP	258	253	248	244
	OCT	249	238	231	228	NOV	226	221	221	220	DEC	219	215	210	210
1961	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	200	215	MAY	216	211	224	242	JUN	256	257	261	258
	JUL	256	259	255	252	AUG	254	250	246	252	SEP	252	254	254	246
	OCT	242	238	233	234	NOV	239	238	232	232	DEC	219	217	213	214
1962	JAN	210	210	210	210	FEB	207	207	207	207	MAR	204	204	204	204
	APR	188	188	188	188	MAY	188	188	200	204	JUN	207	210	213	213
	JUL	214	214	214	215	AUG	218	220	221	221	SEP	222	221	221	218
	OCT	218	218	216	218	NOV	213	213	216	216	DEC	210	221	214	210

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1963	JAN	208	208	208	210	FEB	211	206	206	206	MAR	202	199	192	198
	APR	187	186	188	188	MAY	188	188	193	197	JUN	201	206	208	208
	JUL	208	214	215	218	AUG	218	218	220	220	SEP	218	217	217	219
	OCT	212	209	215	218	NOV	214	198	202	205	DEC	210	210	210	210
1964	JAN	210	210	210	210	FEB	207	207	207	206	MAR	194	194	194	191
	APR	177	180	176	175	MAY	175	184	188	188	JUN	191	195	198	198
	JUL	199	201	202	203	AUG	204	207	208	210	SEP	207	208	209	208
	OCT	207	206	206	203	NOV	206	202	195	190	DEC	196	197	190	186
1965	JAN	184	185	185	185	FEB	182	182	182	182	MAR	179	179	179	179
	APR	178	186	184	179	MAY	179	178	174	174	JUN	180	189	194	195
	JUL	199	203	203	203	AUG	203	205	207	208	SEP	202	205	205	198
	OCT	196	201	210	210	NOV	205	207	209	207	DEC	210	212	219	227
1966	JAN	220	220	217	220	FEB	218	217	221	220	MAR	222	231	239	236
	APR	231	233	228	226	MAY	221	208	201	202	JUN	206	210	214	215
	JUL	216	218	216	216	AUG	217	217	220	219	SEP	221	221	220	219
	OCT	215	212	213	214	NOV	212	211	206	204	DEC	210	210	210	214
1967	JAN	210	210	210	210	FEB	221	224	220	219	MAR	209	208	204	204
	APR	203	212	213	215	MAY	215	216	214	219	JUN	222	219	218	214
	JUL	231	233	235	236	AUG	241	250	250	249	SEP	248	246	241	251
	OCT	258	254	250	261	NOV	263	269	274	277	DEC	275	273	277	271
1968	JAN	248	245	243	238	FEB	255	253	247	238	MAR	230	233	232	239
	APR	251	256	260	248	MAY	249	235	220	226	JUN	225	229	229	231
	JUL	243	248	248	251	AUG	251	258	258	262	SEP	260	263	270	268
	OCT	263	258	254	251	NOV	247	250	249	252	DEC	263	271	249	230
1969	JAN	220	230	234	243	FEB	250	250	255	250	MAR	249	248	248	251
	APR	254	256	259	268	MAY	270	269	266	275	JUN	279	284	287	288
	JUL	295	294	294	289	AUG	294	292	289	286	SEP	281	276	270	264
	OCT	257	251	248	249	NOV	238	245	241	244	DEC	237	241	239	232

TABLE C-13 (CONTINUED)

LAKE ONTARIO QUARTER MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR		QUARTER 1	2	3	4		QUARTER 1	2	3	4		QUARTER 1	2	3	4
1970	JAN	216	223	228	224	FEB	226	230	233	227	MAR	230	231	227	226
	APR	226	230	231	240	MAY	243	241	242	244	JUN	244	242	240	241
	JUL	247	250	255	261	AUG	263	263	262	260	SEP	259	257	257	259
	OCT	260	258	260	261	NOV	263	261	265	265	DEC	270	273	243	231
1971	JAN	230	233	240	235	FEB	237	244	250	248	MAR	251	260	262	267
	APR	273	259	267	274	MAY	281	283	286	285	JUN	282	277	266	264
	JUL	261	267	262	260	AUG	259	256	255	258	SEP	264	263	267	267
	OCT	264	261	262	263	NOV	263	260	257	247	DEC	246	241	243	241
1972	JAN	220	220	222	222	FEB	221	224	231	235	MAR	237	244	256	267
	APR	277	255	267	279	MAY	281	288	292	292	JUN	293	293	304	313
	JUL	310	308	318	307	AUG	310	310	310	310	SEP	308	308	308	307
	OCT	308	306	299	291	NOV	289	291	288	288	DEC	291	293	247	247
1973	JAN	253	245	253	250	FEB	263	287	290	298	MAR	298	291	296	308
	APR	314	322	330	331	MAY	332	334	337	344	JUN	349	350	350	350
	JUL	350	350	350	350	AUG	341	324	318	311	SEP	318	313	307	303
	OCT	300	296	291	289	NOV	286	282	281	281	DEC	281	282	262	231
1974	JAN	233	231	243	248	FEB	245	265	273	291	MAR	294	293	299	300
	APR	306	308	310	310	MAY	310	310	306	307	JUN	320	330	330	330
	JUL	331	335	338	340	AUG	340	336	326	320	SEP	319	313	307	301
	OCT	295	291	286	280	NOV	277	274	273	275	DEC	276	278	279	278
1975	JAN	255	257	240	230	FEB	230	244	260	264	MAR	274	276	281	286
	APR	297	305	312	294	MAY	293	306	309	306	JUN	310	306	309	309
	JUL	291	289	284	285	AUG	284	281	281	282	SEP	288	284	284	285
	OCT	293	291	295	294	NOV	290	288	286	283	DEC	282	285	253	235
1976	JAN	264	234	238	242	FEB	250	256	261	269	MAR	275	285	295	301
	APR	282	304	318	320	MAY	326	335	328	324	JUN	344	349	350	350
	JUL	350	350	350	349	AUG	338	327	321	318	SEP	314	310	307	306
	OCT	306	301	300	299	NOV	296	290	284	278	DEC	253	235	224	220

TABLE C-14

LAKE ONTARIO MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	210	213	226	229	241	213	217	220	244	245	230	252
1901	220	220	204	239	253	256	254	240	249	238	221	220
1902	218	211	226	241	226	216	250	292	287	273	255	228
1903	211	228	250	271	275	253	255	266	274	264	244	216
1904	210	211	227	265	281	289	294	304	295	278	251	212
1905	210	208	204	209	223	249	275	288	288	272	252	232
1906	220	249	244	236	227	226	247	261	258	250	258	252
1907	220	254	253	254	244	244	254	270	270	270	271	253
1908	220	255	264	279	292	297	298	296	271	254	227	212
1909	210	209	222	225	262	274	276	275	260	243	222	216
1910	210	207	224	231	244	246	243	251	256	252	237	216
1911	210	209	208	192	201	212	220	223	223	224	233	236
1912	220	228	223	238	262	273	282	278	270	268	268	252
1913	220	256	265	284	290	294	282	274	266	254	251	235
1914	212	230	221	241	256	260	258	251	260	253	234	216
1915	210	216	228	202	195	212	220	236	270	264	248	217
1916	219	244	242	256	272	288	302	304	276	249	228	215
1917	210	217	224	258	264	270	290	305	298	282	282	257
1918	218	226	252	268	255	241	246	249	256	260	270	246
1919	220	248	250	258	274	294	299	292	272	257	249	218
1920	210	209	206	200	200	217	220	251	268	263	256	250
1921	220	248	254	261	258	246	241	238	232	228	230	233
1922	212	215	228	246	264	265	281	273	266	248	224	212
1923	210	207	204	194	197	223	236	234	241	225	222	234
1924	220	234	226	224	242	253	257	262	253	254	232	212
1925	210	207	214	227	216	213	217	220	221	216	216	226
1926	210	207	204	188	199	209	216	220	224	254	262	260
1927	220	238	240	239	218	216	218	234	237	238	236	252
1928	220	255	258	261	260	250	262	277	277	260	257	247
1929	220	254	262	280	299	304	303	308	292	278	269	253
1930	220	259	280	294	298	289	289	278	266	252	222	214
1931	210	207	204	188	194	216	222	222	223	218	212	210
1932	212	241	244	249	256	238	226	232	231	220	228	224
1933	216	212	205	217	241	231	221	221	222	215	204	210

TABLE C-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	210	207	204	188	188	193	200	201	201	196	198	210
1935	210	207	204	188	188	193	205	210	209	200	198	210
1936	210	207	204	193	205	211	212	211	212	206	202	210
1937	210	223	229	205	224	219	247	250	239	221	227	218
1938	210	217	234	244	238	217	221	223	237	255	235	213
1939	210	207	208	226	246	233	220	220	222	222	212	210
1940	210	207	204	188	200	241	251	251	229	229	218	218
1941	220	232	220	194	192	204	210	214	216	208	204	210
1942	210	207	209	235	238	252	236	252	250	245	244	240
1943	220	248	254	260	277	298	304	310	299	271	270	244
1944	210	216	217	222	240	252	266	261	254	241	222	214
1945	210	207	221	256	271	284	291	290	275	292	290	272
1946	220	252	258	260	232	230	239	245	244	242	249	222
1947	218	246	241	258	278	300	304	310	307	280	262	234
1948	215	224	235	266	278	282	272	264	256	240	229	216
1949	214	233	244	248	240	221	220	222	223	222	214	210
1950	212	238	242	269	276	266	257	254	257	249	251	254
1951	220	256	272	286	299	308	302	287	278	262	255	250
1952	220	260	279	295	304	308	305	293	284	270	244	242
1953	220	247	250	263	264	278	270	270	262	249	226	221
1954	210	221	250	262	284	284	272	255	256	258	275	258
1955	220	255	268	285	294	280	262	259	256	254	277	247
1956	210	218	233	245	269	282	278	268	268	254	230	214
1957	210	220	226	225	217	220	252	259	252	233	218	214
1958	212	207	204	188	195	212	218	220	226	243	236	215
1959	210	207	217	243	257	254	240	221	221	220	216	227
1960	220	242	244	252	271	287	281	266	251	236	222	214
1961	210	207	204	198	223	258	256	250	252	237	235	216
1962	210	207	204	188	195	211	214	220	220	218	214	214
1963	208	207	198	187	192	206	214	219	218	214	205	210
1964	210	207	193	177	184	196	201	207	208	206	198	192
1965	185	182	179	182	176	190	202	206	202	204	207	217
1966	219	219	232	230	208	211	216	218	220	214	208	211
1967	210	221	206	211	216	218	234	248	246	256	271	274

TABLE C-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244	248	234	254	232	228	248	257	265	256	250	253
1969	232	251	249	259	270	284	293	290	273	251	242	237
1970	223	229	228	232	242	242	253	262	258	260	264	254
1971	234	245	260	268	284	272	262	257	265	262	257	243
1972	221	228	251	270	288	301	311	310	308	301	289	270
1973	250	284	298	324	337	350	350	324	310	294	282	264
1974	239	268	296	308	308	328	336	330	310	288	275	278
1975	246	250	279	302	304	308	287	282	285	293	287	264
1976	244	259	289	306	328	348	350	326	309	302	287	233

TABLE C-15

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	238	242	246	310	330	274	271	264	271	276	275	282
1901	244	232	223	346	361	330	284	258	268	258	244	248
1902	242	224	291	332	320	297	304	321	305	292	289	266
1903	237	254	322	355	345	306	299	294	286	289	260	274
1904	223	224	256	360	416	407	342	331	319	322	284	254
1905	228	217	220	275	298	306	308	310	307	292	276	251
1906	247	272	262	287	307	303	281	275	266	259	270	266
1907	244	263	270	309	332	318	298	290	286	298	308	287
1908	247	276	292	350	448	391	336	313	281	261	236	222
1909	224	225	238	315	420	378	317	308	285	265	243	238
1910	233	224	260	310	316	300	264	266	276	274	264	234
1911	227	220	216	252	302	275	246	236	233	234	246	262
1912	246	240	234	314	360	371	321	299	292	290	330	297
1913	271	292	320	379	376	338	300	283	278	269	288	272
1914	232	246	238	292	318	290	279	259	265	258	242	230
1915	224	230	244	239	251	247	244	253	282	280	260	232
1916	246	272	264	362	412	379	342	323	288	268	258	246
1917	232	233	244	336	358	358	346	341	319	302	310	276
1918	231	238	272	346	333	294	289	269	278	307	336	291
1919	254	267	290	346	407	378	326	304	289	288	298	258
1920	231	226	238	278	274	255	250	274	284	276	277	280
1921	242	260	312	349	327	278	258	252	242	242	250	255
1922	230	230	262	363	370	316	312	292	280	260	236	223
1923	221	216	216	249	320	292	267	254	260	239	240	264
1924	249	253	251	302	362	323	290	283	273	284	255	240
1925	224	234	264	315	294	274	256	246	241	238	251	261
1926	234	222	220	246	296	282	260	244	242	272	308	300
1927	250	270	298	288	273	270	259	265	254	259	292	304
1928	264	290	295	377	406	333	309	309	306	320	328	293
1929	262	284	317	384	431	367	342	328	309	298	297	272
1930	252	281	303	351	357	343	342	304	284	270	240	228
1931	224	220	220	232	238	246	239	237	235	230	228	235
1932	247	272	268	334	311	269	252	253	266	272	300	264
1933	253	238	228	333	337	275	243	243	238	230	217	224

TABLE C-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	227	216	223	287	286	242	229	212	213	213	214	238
1935	243	230	245	245	241	228	237	230	225	216	220	232
1936	232	223	269	268	322	277	236	226	229	234	244	240
1937	259	263	265	281	314	261	268	270	255	242	274	253
1938	239	248	300	348	322	257	240	240	257	278	254	235
1939	232	230	236	298	343	287	254	248	240	240	237	234
1940	228	223	221	253	267	311	294	272	248	246	240	246
1941	252	259	243	270	244	228	230	232	234	238	250	246
1942	242	238	260	317	301	298	256	268	265	261	266	261
1943	246	276	299	329	409	368	337	329	319	292	298	267
1944	233	232	247	265	294	274	281	274	269	258	241	234
1945	235	227	282	330	341	337	314	305	293	324	322	296
1946	251	281	317	312	274	268	254	258	259	264	281	262
1947	260	291	281	368	430	439	360	334	324	296	281	255
1948	236	246	285	327	325	310	288	278	266	252	244	235
1949	246	264	287	334	301	251	246	237	238	239	232	238
1950	249	264	275	336	331	305	286	277	281	272	284	286
1951	258	291	328	421	369	334	331	303	296	290	312	289
1952	257	296	319	377	375	355	329	316	302	294	266	273
1953	250	280	306	344	316	300	285	284	274	263	241	238
1954	231	250	298	350	339	326	297	274	279	308	326	299
1955	266	295	320	408	343	306	280	275	272	274	315	278
1956	238	241	261	320	340	330	307	294	304	294	258	244
1957	242	254	271	266	258	250	306	281	279	266	264	266
1958	252	249	256	272	238	248	253	247	254	279	277	246
1959	240	237	249	324	310	286	266	244	247	250	265	277
1960	262	290	285	381	396	332	335	303	277	261	250	242
1961	235	234	231	259	278	301	295	281	282	269	263	248
1962	246	245	243	274	262	242	236	243	240	241	244	236
1963	229	227	223	268	238	232	232	236	240	235	234	241
1964	239	233	236	234	225	228	222	224	222	222	216	214
1965	208	212	207	226	230	214	219	229	236	268	263	266
1966	263	260	297	300	266	257	240	245	242	238	245	279
1967	252	270	240	310	299	280	276	272	271	296	345	326

TABLE C-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (1000 CFS)
BASIS FOR COMPARISON (WITH DEVIATION)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	290	291	291	332	273	260	282	284	290	280	280	286
1969	267	286	283	351	352	334	326	321	298	278	288	278
1970	262	265	267	311	321	296	301	300	286	292	302	292
1971	276	286	306	375	378	310	287	280	289	285	279	274
1972	250	260	285	364	404	361	368	357	344	343	350	321
1973	309	340	395	415	412	400	383	351	334	325	318	310
1974	286	312	357	405	448	414	376	351	328	312	320	326
1975	293	293	332	386	376	357	316	303	310	323	326	316
1976	304	318	371	452	429	393	382	352	335	337	320	282

LAKE ERIE REGULATION STUDY

APPENDIX A

LAKE REGULATION

PROGRAM DOCUMENTATION

GREAT LAKES REGULATION MODEL

REPORT TO THE

INTERNATIONAL JOINT COMMISSION

BY THE

INTERNATIONAL LAKE ERIE REGULATION STUDY BOARD

(UNDER THE REFERENCE OF 21 FEBRUARY 1977)

July 1981

TABLE OF CONTENTS

		PAGE
	Table of Contents	A-i
	List of Annexes	A-ii
	Disclaimer	A-iii
	Section 1	
	ABSTRACT	A-1
	Section 2	
	SPECIFICATIONS	A-2
2.1	Limitations	A-2
2.2	Input Data	A-2
	2.2.1 Tape File 66	A-2
	2.2.2 Input File	A-3
2.3	Output Data	A-9
	2.3.1 Printed Output	A-9
	2.3.2 Tape Output	A-11
	Section 3	
	LIST OF VARIABLES	A-12
3.1	List of Variables -- Main Program (P 4827)	A-12
3.2	List of Variables -- Subroutines	A-19
	3.2.1 Subroutine ABSICE	A-19
	3.2.2 Subroutine QSUP	A-19
	3.2.3 Subroutine CANADP	A-19
	3.2.4 Subroutine CANADA	A-23
	3.2.5 Subroutine R1958D	A-25
	3.2.6 Subroutine PRTHCE	A-28
	3.2.7 Subroutine PRTONT	A-29
	3.2.8 Subroutine ROUND	A-30
	3.2.9 Subroutine IABICE	A-30
	3.2.10 Subroutine PTITLE	A-30
	3.2.11 Subroutine STDMY	A-31
	Section 4	
	FLOW CHART	A-32

LIST OF ANNEXES

ANNEX A - Source Program

ANNEX B - Sample Input

ANNEX C - Sample Output

ANNEX D - Plan 6L

ANNEX E - Plan 15S

ANNEX F - Plan 25N

ANNEX G - Adjusted Base Case

DISCLAIMER

The Detroit District of the U.S. Army Corps of Engineers, Department of Defense, assumes no responsibility for use made of this program.

Section 1

ABSTRACT

The Great Lakes Regulation Model was developed by the Great Lakes Hydraulics and Hydrology Branch, Lake Hydrology Section, for use on a C.D.C. 7600, 6600 or 6400 computer system.

This model has been designed for multiple-uses, incorporating three basic programs to represent the manner in which water transcends through the Great Lakes system, from Lake Superior to the St. Lawrence River. Two of the programs model the existing regulatory controls on Lakes Superior and Ontario by Regulation Plans 1977 and 1958-D, respectively. A third program routes the supplies and outflows through the middle lakes using the 1962 - 1968 conditions on the St. Clair and Detroit Rivers and the 1935 conditions on the Niagara River.

Each of the basic programs give the user the capacity to vary inputs for studies of the Great Lakes. In particular, the middle lake routing program allows for varying the Lake Erie outflows by using the net basin supplies for Lake Erie and/or Michigan-Huron and/or Superior. It is this portion of the overall model which is utilized in the International Lake Erie Regulation Study.

The Great Lakes Regulation Model is designated by the Detroit District as program number 724F3058. It requires the following subroutines be run: 1) QSUP; 2) ABSICE; 3) CANADP; 4) CANADA; 5) R1958D; 6) STDMY; 7) PTITLE; 8) IABICE; 9) PRTHCE; 10) PRTONT; and 11) ROUND.

The printed output contains the levels and flows data for the Great Lakes. The tape output consists of 19 files which contain the levels and flows of the Great Lakes, formatted to include the beginning-of-month and monthly mean lake levels and the monthly mean outflows from the Great Lakes. For the lower lakes (Lakes Erie and Ontario) this information is presented in quarter-month format. There are also output files containing monthly mean water levels for the U.S. Slip Gauge on the lower St. Marys River, the projected gate settings for the Lake Superior Compensating Works, and the quarter-monthly mean water levels and outflows of Lake St. Louis.

Section 2

SPECIFICATIONS

2.1 Limitations

The number of years of routing are limited only by the number of years of water supply data inputted. Subroutines "ROUND" and "STDMY" depend upon the number of significant digits of the machine and the system clock routines, respectively.

2.2 Input Data

The program reads the basic data from Tape File 66. The controlling parameters, along with the initial data, are read from the input file. This data has been tabulated in Volume 2 of this Appendix.

2.2.1 Tape File 66

This file consists of 25 card images per year. The format is (9X,I4,7X, 12I5/(20X,12I5)) with the second part of the format used for reading quarter-month data. Each year has the following form.

Card	Column 10-13	Column 21-80	Content
1	IYR-(Year)	NBS (J,1), NBSS	Lake Superior net basin supplies (HCFS).
2	"	ICE (J,1)	Lake Superior ice retardation (HCFS).
3	"	NBS (J,2), NBSM	Lakes Michigan-Huron net basin supplies (HCFS).
4	"	ICE (J,2), ICEM	Lakes Michigan-Huron ice retardation (HCFS).
5	"	NBS (J,3), NBSSC	Lake St. Clair net basin supplies (HCFS).
6	"	ICE (J,3), ICEC	Lake St. Clair ice retardation (HCFS).
7	"	NBSEQ, NBSE	Lake Erie net basin supplies-Jan, Feb, Mar (HCFS).
8	"	NBSEQ, NBSE	Lake Erie net basin supplies-Apr, May, June (HCFS).
9	"	NBSEQ, NBSE	Lake Erie net basin supplies-July, Aug, Sep (HCFS).
10	"	NBSEQ, NBSE	Lake Erie net basin supplies-Oct, Nov, Dec (HCFS).
11	"	ICE (J,4)	Lake Erie flow retardation (HCFS).

Read in Subroutine "R1958-D"

Card	Column 10-13	Column 21-80	Content
12	IYR-(Year)	NBS	Lake Ontario net basin supplies-Jan, Feb, Mar (HCFS).
13	"	NBS	Lake Ontario net basin supplies-Apr, May, June (HCFS).
14	"	NBS	Lake Ontario net basin supplies-July, Aug, Sep (HCFS).
15	"	NBS	Lake Ontario net basin supplies-Oct, Nov, Dec (HCFS).
16	"	ICE	Lake Ontario ice retardation (HCFS).
17	"	IFLO	Lake St. Louis - Lake Ontario flow-Jan, Feb, Mar (TCFS).
18	"	IFLO	Lake St. Louis - Lake Ontario flow-Apr, May, June (TCFS).
19	"	IFLO	Lake St. Louis - Lake Ontario flow-July, Aug, Sep (TCFS).
20	"	IFLO	Lake St. Louis - Lake Ontario flow-Oct, Nov, Dec (TCFS).
21	"	IDIS	Deviation from Rule 1958-D Jan, Feb, Mar (TCFS).
22	"	IDIS	Deviation from Rule 1958-D Apr, May, June (TCFS).
23	"	IDIS	Deviation from Rule 1958-D July, Aug, Sep (TCFS).
24	"	IDIS	Deviation from Rule 1958-D Oct, Nov, Dec (TCFS).
25	"	ICESL	Lake St. Louis ice retardation (HCFS).

2.2.2 Input File

The program reads from 1-10 title cards, in the format (26A3,A2), into PTITLE. These title cards must be followed by a blank card, unless there are 10 cards. The rest of the data cards are as follows.

Card	Columns	Format	Variable Name	Variable Description
1	1-72	12F6.0	PSM	Lake Superior target stages (feet-IGLD).
2	1-72	12F6.0	PSSD	Lake Superior standard deviations (feet).
3	1-72	12F6.0	PHM	Lakes Michigan-Huron target stages (feet-IGLD).
4	1-72	12F6.0	PHSD	Lakes Michigan-Huron standard deviations (feet).
5	1-72	12F6.0	QB	Lake Superior target flows (TCFS).
6	1-72	12F6.0	SUPLIM	Lake Superior lower flow limit (TCFS).
7	1-5	I5	IBY	Beginning year.
	6-10	I5	IEY	Ending year.
	11-15	I5	IFO	Deviation code for Rule of 1958-D: 1-for deviations in basic data; 2-for no deviations.
	16-20	I5	ICES	1-for ice retardation in St. Marys River. 0-for no ice retardation in St. Marys River.
	21-25	I5	ICESC	1-for ice retardation in St. Clair River. 0-for no ice retardation in St. Clair River.
	26-30	I5	ICED	1-for ice retardation in Detroit River. 0-for no ice retardation in Detroit River.
	31-35	I5	ICEN	1-for flow retardation in Niagara River. 0-for no flow retardation in Niagara River.
	36-40	I5	IFSG	10000-for single winter gate setting. 1MMNN-for single winter gate setting and single gate setting from month MM to month NN. 0MMNN-for a single gate setting from month MM to month NN. 00000-for the program to change gate setting as needed.
8	1-6	F6.0	SEOP	Lake Superior beginning-of-period stage (feet-IGLD).
	7-12	F6.0	CHNG	Allowable change in Lake Superior outflow per month (TCFS).
	13-18	F6.0	AVAR	Constant (usually 200 TCFS).
	19-24	F6.0	TEMPSO	Lake Superior monthly mean flow for the month previous to the starting month (TCFS).
9	1-72	12F6.0	EICE	Niagara River ice and weed flow retardations (HCFS).

Card	Columns	Format	Variable Name	Variable Description
10	1-5	I5	LLO	Long Lac-Ogoki Diversion reduction amount (HCFS).
	6-10	I5	LNM	1-for Lakes Michigan-Huron net basin supplies being used in NBH. 0-for Lakes Michigan-Huron net basin supplies not being used in NBH.
	11-15	I5	LMS	1-for Lake Superior net basin supplies being used in NBH. 0-for Lake Superior net basin supplies not being used in NBH.
	16-20	I5	NBH3	Running 12-month sum of Lake Superior plus Lakes Michigan-Huron net basin supplies, which must equal or exceed to flow less water from Long Lac-Ogoki Diversion.
11	1-10	F10.0	HEOP	Lakes Michigan-Huron beginning-of-month water level (feet-IGLD).
	11-20	F10.0	CEOP	Lake St. Clair beginning-of-month water level (feet-IGLD).
	21-30	F10.0	EEOP	Lake Erie beginning-of-month water level (feet-IGLD).
	31-40	F10.0	CDP	Basic Chicago Diversion outflow for plan (TCFS).
12	1-60	12I5	NBSS2	Net basin supplies for Lake Superior for year previous to beginning year (HCFS).
13	1-60	12I5	NBMH	Net basin supplies for Lakes Michigan-Huron for year previous to beginning year (HCFS).
14	1-60	12I5	NBR	Net basin supplies for Lake Erie for year previous to beginning year (HCFS).
15	1-5	I5	INB2	1-for Lakes Michigan-Huron net basin supplies being used in NBH2. 0-for Lakes Michigan-Huron net basin supplies not being used in NBH2.
	6-10	I5	INS2	1-for Lake Superior net basin supplies being used in NBH2. 0-for Lake Superior net basin supplies not being used in NBH2.
	11-15	I5	NBH2	Number which running 12-month sum of Lake Superior and/or Lakes Michigan-Huron net basin supplies must equal or exceed to flow additional water through Chicago Diversion.

Card	Columns	Format	Variable Name	Variable Description
15 Cont.	16-20	I5	NBE3	Number which running 12-month sum of Lake Erie net basin supplies must equal or exceed to flow additional water through the Chicago Diversion.
	21-25	I5	K1	Number of the first month of the "accounting year" for Chicago Diversion, 1=Jan, 2=Feb, etc. (i.e. first month of 12 months used for 12-month average beginning-of-month stage of Lakes Michigan-Huron used for flowing additional water through the Chicago Diversion).
16	1-72	12F6.0	CD	Additional Chicago Diversion flow by month (TCFS).
17	1-72	12F6.0	TBOMS	Monthly values that beginning-of-month level for Lakes Michigan-Huron must exceed for additional Chicago Diversion outflow (feet).
18	1-6	F6.0	TMMS	Amount which the average Lakes Michigan-Huron monthly mean level for the previous "accounting year" must exceed or equal to flow additional water through the Chicago Diversion in the current "accounting year" (feet-IGLD).
19	1-72	12F6.0	PMMS	Monthly mean Lakes Michigan-Huron levels for the year previous to the starting year (feet-IGLD).
20	1-5	I5	NBH	Amount which the running 12-month sum of Lake Superior and/or Lakes Michigan-Huron net basin supplies must equal or exceed to flow additional water from Lake Erie (HCFS).
	6-10	I5	NBE2	Amount which the running 12-month sum of Lake Erie net basin supplies must equal or exceed in order to flow additional water from Lake Erie (HCFS).
	11-15	I5	INM	1-for Lakes Michigan-Huron net basin supplies being used in NBH. 0-for Lakes Michigan-Huron net basin supplies not being used in NBH.
	16-20	I5	INS	1-for Lake Superior net basin supplies being used in NBH. 0-for Lake Superior net basin supplies not being used in NBH.

Card	Columns	Format	Variable Name	Variable Description
20 Cont.	21-25	I5	NBHE	Amount which running 12-month sum of Lake Superior and/or Lakes Michigan-Huron net basin supplies must be less than in order to flow less water from Lake Erie (HCFS).
	26-30	I5	NBEE	Amount which running 12-month sum of Lake Erie net basin supplies must be less than in order to flow less water from Lake Erie.
	31-35	I5	INME	1-for Lakes Michigan-Huron net basin supplies being used in NBHE. 0-for Lakes Michigan-Huron net basin supplies not being used in NBHE.
	36-40	I5	INSE	1-for Lake Superior net basin supplies being used in NBHE. 0-for Lake Superior net basin supplies not being used in NBHE.
21	1-72	12F6.0	ADD	Amount by which Lake Erie outflow is to be increased (TCFS).
22	1-72	12F6.0	SUB	Amount by which Lake Erie outflow is to be decreased (TCFS).
23-25	1-80	16I5	MAX	48 values of maximum "P".
26-28	1-80	16I5	MIN	48 values of minimum "P".
29	1-80	16I5	MLIM	12 values of minimum "M".
30	1-66	22F3	ISI	Supply indicator for 22 quarter-month preceeding initial quarter-month (TCFS).
31	1-5	I5	IQB	Initial quarter-month of starting month (i.e. 1,2,3,or 4).
	6-10	I5	MOB	Initial month.
	11-15	I5	IYEARB	Initial year.
	16-20	I5	IQE	Final quarter-month of final month.
	21-25	I5	MOE	Final month.
	26-30	I5	IYEARE	Final year.
	31-35	I5	IST	Initial weighed supply.
	36-40	I5	IEX	Exceedence probability.
	41-45	I5	NNTS	Initial quarter-month net total supply (TCFS).
	46-50	I5	ISUM	Initial quarter-month supply indicator adjustment.
	51-55	I5	IQ	Initial quarter-month Basic Rule Curve flow.
	56-60	I3	ISTAGE	Initial beginning-of-quarter-month stage (hundreds of feet with the initial 240 feet deleted, i.e., 245.67 is 00567).
	61-63		INDEX	1-for I Limitation.

Card	Columns	Format	Variable Name	Variable Description
31	64-66	I3	LIM	Initial flow (TCFS).
Cont.	67-69	I3	IE	Limit code for LIM (1-I, 2-J, 3-L, 4-M,5-P,6-P*,7-None).
	70-72	I3	LIM1	Flow for second quarter-month (actual) (optional) (TCFS).
	73-75	I3	IE1	Limit code for LIM1 (see IE).
	76-80	I3	IACUM	Sum of dissipitation (TCFS).
	1-5	I5	IML	Amount which running 12-month sum of Lake Superior plus Lakes Michigan-Huron net basin supplies must be less than in order to decrease the Lake Ontario outflow (HCFS).
32				
	6-10	I5	IMH	Amount which running 12-month sum of Lake Superior plus Lakes Michigan-Huron net basin supplies must be greater than in order to increase the Lake Ontario outflow (HCFS).
	11-15	I5	IEL	Amount which running sum of Lake Erie 48 quarter-month net basin supplies must be less than in order to decrease the Lake Ontario outflow (HCFS).
	16-20	I5	IEH	Amount which running sum of Lake Erie 48 quarter-month net basin supplies must be greater than in order to increase the Lake Ontario outflows (HCFS).
	21-25	I5	IOL	Amount which running sum of Lake Ontario 48 quarter-month net basin supplies must be less than in order to decrease the Lake Ontario outflow (HCFS).
	26-30	I5	IOH	Amount which running sum of Lake Ontario 48 quarter-month net basin supplies must be greater than in order to increase the Lake Ontario outflow (HCFS).
	1-60	12I5	IUP	Amount by which Lake Ontario outflow is to be increased (TCFS).
33	61-65	I5	IASIUP	Number which adjusted supply indicator must be greater than to increase the Lake Ontario outflow.

Card	Columns	Format	Variable Name	Variable Description
34	1-60	12I5	IDN	Amount by which Lake Ontario outflows are to be decreased (TCFS).
	61-65	I5	IASIDN	Amount which adjusted supply indicator must be less than in order to flow less water from Lake Ontario (HCFS).
35	1-60	12I5	NS	Net basin supplies for Lake Superior for year previous to initial year (HCFS).
36	1-60	12I5	NHE	Net basin supplies for Lakes Michigan-Huron for year previous to initial year (HCFS).
37	1-60	12I5	NE	Net basin supplies for Lake Erie for year previous to initial year (HCFS).
38	1-60	12I5	NO	Net basin supplies for Lake Ontario for year previous to initial year (HCFS).

2.3 Output Data

The output consists of printed tabular displays of projected stages and flows on each of the lakes including pertinent associated data items. In addition there are 19 tape outputs.

2.3.1 Printed Output

The printed output consists of: 1) the Lake Superior printout; 2) the middle lakes printout; and 3) the Lake Ontario printout.

The Lake Superior printout contains four years of record per page. The record contains the monthly data for:

1. The Lake Superior beginning-of-month stages (in feet-IGLD);
2. The 1949 Rule flow (in TCFS);
3. The Plan 1977 flow (in TCFS);
4. The Compensating Works gate setting;
5. The regulated flow (gate setting converted to Lake Superior outflow) (in TCFS);
6. The net total supplies for Lake Superior (in TCFS);
7. The storage on Lake Superior (in TCFS and feet);
8. The monthly mean stages on Lake Superior (in feet-IGLD);
9. The flow retardation values for the St. Clair, Detroit and Niagara Rivers (in HCFS); and
10. The 12-month running sums of the Lakes Superior, Michigan-Huron and Erie net basin supplies.

The middle lakes printout contains a half-year of record per page. The record consists of quarter-monthly data for each of Lakes Michigan-Huron, St. Clair and Erie. This quarter-monthly data includes the following (for each of the three lakes).

1. The net total supplies for each lake (in TCFS).
2. The quarter-monthly mean stage for each lake (in feet-IGLD).
3. The quarter-monthly mean outflow from each lake (in TCFS).
4. The end-of-quarter month stage for each lake (in feet-IGLD).

The Lake Ontario printout contains a half-year of record per page on a quarter-monthly basis. This record consists of the following.

1. The maximum and minimum Plan 1958-D flows (in TCFS).
2. The Lake Ontario net basin supply (in TCFS).
3. 16.5 X the weighted supply indicator (in TCFS).
4. The weighted supply indicator (in TCFS).
5. The normal supply indicator (in TCFS).
6. The adjusted supply indicator (in TCFS).
7. The difference in supply indicators (in TCFS).
8. The basic rule curve outflow (in TCFS).
9. The seasonally adjusted outflow (in TCFS).
10. The applicable limitations (in TCFS).
11. The computed Lake Ontario outflow (in TCFS).
12. Change in storage on Lake Ontario (in TCFS and feet).
13. The end-of-quarter-month levels on Lake Ontario, for Plan 1958-D flow and for actual flow.

2.3.2 Tape Output
The 19 files output on tape are listed below.

TAPE	CONTENT
80	U.S. Slip gauge monthly mean stages (feet-IGLD).
81	Lake Superior monthly mean stages (feet-IGLD).
82	Lake Superior monthly mean outflows (TCFS).
83	Lakes Michigan-Huron monthly mean stages (feet-IGLD).
84	Lakes Michigan-Huron monthly mean outflows (TCFS).
85	Lake Erie monthly mean stages (feet-IGLD).
86	Lake Erie monthly mean outflows (TCFS).
87	Lake Ontario monthly mean stages (feet-IGLD).
88	Lake Ontario monthly mean outflows (TCFS).
90	Lake St. Louis quarter-monthly mean stages (feet-IGLD).
91	Lake St. Clair beginning-of-month stages (feet-IGLD).
	Lake St. Clair monthly mean stages (feet-IGLD).
	Lake St. Clair monthly mean outflows (TCFS).
92	Lake Superior beginning-of-month stages (feet-IGLD).
	Lakes Michigan-Huron beginning-of-month stages (feet-IGLD).
	Lake Erie beginning-of-month stages (feet-IGLD).
	Lake Ontario end-of-month stages (feet-IGLD).
93	Lake Superior monthly mean stages (feet-IGLD).
	Lakes Michigan-Huron monthly mean stages (feet-IGLD).
	Lake Erie monthly mean stages (feet-IGLD).
	Lake Ontario monthly mean stages (feet-IGLD).
	Lake Superior monthly mean outflows (TCFS).
	Lakes Michigan-Huron monthly mean outflows (TCFS).
	Lake Erie monthly mean outflows (TCFS).
	Lake Ontario monthly mean outflows (TCFS).
94	Lake Erie quarter-month outflows (TCFS).
95	Lake Ontario quarter-month outflows (TCFS).
96	Lake St. Louis quarter-month outflows (TCFS).
97	Lake Ontario beginning-of-quarter-month stages (feet-IGLD).
98	Lake Ontario quarter-monthly mean stages (feet-IGLD).
99	Lake Superior Compensating Works gate settings.

Section 3

LIST OF VARIABLES

3.1 List of Variables -- Main Program

-A-

ADD - Input - array containing additions to Lake Erie outflows (TCFS).
AVAR - Input - weighting factor in Lake Superior Basic Rule flow (TCFS).
AVEE - Array of Lake Erie monthly mean levels (feet-IGLD).
AVEMH - Array of Lakes Michigan-Huron monthly mean levels (feet-IGLD).
AVESC - Array of Lake St. Clair monthly mean levels (feet-IGLD).
A1 - First multiplicitive constant in gate-discharge equation for Lake Superior outflows.
A2 - Second multiplicitive constant in gate-discharge equation for Lake Superior outflows.
A3 - Additive constant in gate-discharge equation for Lake Superior outflows.

-B-

BOME - Array containing Lake Erie beginning-of-month levels (feet-IGLD).
BOMEJ - Lake Erie beginning-of-month level used in forecast to determine Lake Superior gate setting (feet-IGLD).
BOMH - Array containing Lakes Michigan-Huron beginning-of-month levels (feet-IGLD).
BOMHJ - Lakes Michigan-Huron beginning-of-month level used in forecast to determine the Lake Superior gate setting (feet-IGLD).
BOMO - Array containing the Lake Ontario beginning-of-month levels (feet-IGLD).
BOMS - Array containing the Lake Superior beginning-of-month levels (feet-IGLD).
BOMSC - Array containing the Lake St. Clair beginning-of-month levels (feet-IGLD).
BOMSCJ - Lake St. Clair beginning-of-month level used in forecast to determine gate setting (feet-IGLD).
BOMSJ - Lake Superior beginning-of-month level used in forecast to determine Lake Superior gate setting (feet-IGLD).

-C-

CD - Input array containing the additional Chicago Diversion flows (HCFS).
CDA - Adjusted Chicago Diversion outflow used in regulation (HCFS).
CDP - Input - base Chicago Diversion outflow to which adjustments are made (HCFS).
CEOP - Input - Lake St. Clair end-of-period elevation (feet-IGLD).
CHNG - Input - allowable change in Lake Superior flows per month (TCFS).

- E -

EEOP - Lake Erie end-of-period elevation (feet-IGLD).
EICE - Array of flow retardation values for Niagara River (HCFS).

- F -

FFOUR - Lake Superior outflow from basic equation after outflow limitations; used in forecast (TCFS).
FNIA - Sum total flow to be added (ADD) or subtracted (SUB) to/from Lake Erie outflow.
FTHREE - Lake Superior outflow calculated by basic equation; used in forecast (TCFS).
F3 - Lake Superior outflow calculated by basic equation (TCFS).
F4 - Lake Superior outflow from basic equation after outflow limitations are applied (TCFS).

- H -

H - Zero, used in subroutine CANADA (can be changed to add or subtract to/from Lakes Michigan-Huron Elevation for changing conditions, i.e., 1933 to 1968 etc.).
HEOP - Lakes Michigan-Huron end-of-period elevation (Feet-IGLD).
HK - Beginning-of-month Lakes Michigan-Huron stage, minus Lakes Michigan-Huron mean stage divided by Lakes Michigan-Huron standard deviation; used in both actual and forecast computations.

- I -

I - Monthly index for computation of U.S. Slip gauge elevation by successive approximation.
IBK - Blank character, used for blank characters put out at end-of-file.
ICE - Array of ice retardation values for Lakes Superior, Michigan-Huron, St. Clair and Erie (HCFS).
ICEC - Array of ice retardation values for Lake St. Clair for period of record (HCFS).
ICED - Input parameter: 1-for ice retardation in Detroit River (Lake St. Clair outflow); 0-for no retardation. The retardation value is multiplied by this value and increased by a factor of N if ICED = N or reduced by a factor of N if ICED =-N.
ICEE - Ice retardation values for Lake Erie for printout (fixed point to facilitate printing).
ICEM - Array of ice retardation values for Lakes Michigan-Huron for period of record.
ICEN - Input parameter: 1-for ice retardation Niagara River (Lake Erie outflow); 0-for no retardation. Since the ice retardation values are multiplied by this integer, it is possible to increase the retardation value and/or change its sign).
ICESC - Input parameter: 1-for ice retardation in St. Clair River (Lakes Michigan-Huron outflow); 0-for no ice retardation. Since the retardation values are multiplied by this integer, it is possible to increase the retardation value and/or change its sign).

IEFLW - Array of Lake Erie quarter-month flows used as inflow to Lake Ontario (HCFS). These values are saved for running alternate scenarios on Lake Ontario utilizing the same upper lakes data).

IEY - Input - ending year.

IFO - Input - deviation code for Lake Ontario routing Plan 1958-D: 0-for no deviation; 1-for deviation.

IFSG - Input - gate setting indication. Use 10411 for Plan 1977.

IFWSG - Internal variable used to determine starting and ending summer gate-setting months.

IGATE - Array containing gate setting for Lake Superior with 0 = no gates, 1 = half gate, and N = N-1 gates for N greater than 1.

IIG - Output variable: either 1/2 or N/A, as required.

III - Subroutine argument; used in call of subroutine PTITLE; 1-returned for no end-of-file encountered.

IJ - Do-Loop index; used to read last fifteen 'cards' of basic data; read in for forecast.

IJK - Yearly mean stage index; used to increase or decrease Chicago Diversion: 1-yearly mean stage larger than target stage (applies Chicago Diversion correction); 0-yearly mean stage not larger than target stage. No Chicago Diversion correction applied).

IJK1 - Same as IJK, except used in gate-setting forecast.

INM - Input variable: 1-for Lakes Michigan-Huron net basin supplies utilized in running sum (called NBH), added to Lake Erie outflow; 0-for no utilization.

INME - Input variable: 1- for Lakes Michigan-Huron net basin supplies utilized in running sum (called NBHE), subtracted from Lake Erie outflow; 0-for no utilization.

INM2 - Input parameter: 1-for Lakes Michigan-Huron net basin supplies being used in NBH2 (additional Chicago Diversion water index); 0-for Lakes Michigan-Huron net basin supplies not being used in NBH2.

INS - Input parameter: 1-for Lake Superior net basin supplies being used in NBH (additional Lake Erie flow indication); 0-for Lake Superior net basin supplies not being used in NBH.

INSE - Input parameter: 1- For Lake Superior net basin supplies.

INS2 - Input parameter: 1-For Lake Superior net basin supplies being used in NBH2 (additional Chicago Diversion water index); 0-for Lake Superior net basin supplies not being used in NBH2.

IOS - Output - Lake Superior outflow (TCFS).

ISYM - Array containing the symbols N/A and 1/2.

ITITLE - Array containing the title of the run.

IY - Number of years from beginning year necessary to read supplies for forecast, in main body of program for current year.

IYA - Number of years processed. Used for printout of Lake Superior.

IYC - Index-year, do-loop index.

IYEAR - Year. Read in from basic data on Tape 66.

IYR - Number of years processed plus 1. Used in forecast for lower lakes supplies.

IZ - Index, running from begining-year to ending-year, to read in forecasted supplies.

- J -

J - Index, month indicator.
JJ - Lake Superior outflow indicator: 1-for December, 2-for January-April, and 3-otherwise (input parameter for QSUP).
J1 - Index, month indicator for forecast.
J2 - Index, quarter-month indicator for forecast and month loop index for summing stages of forecast.

- K -

K1 - First month of accounting year for controlling Chicago Diversion by stage.

- L -

L - Index, used to calculate Lake Superior outflow by successive approximation loop (four times).
LLO - Long Lac-Ogoki Diversion reduction amount (HCFS).
LMS - Index: 1-for Lake Superior net basin supplies being used in NBH3 (Long Lac-Ogoki Diversion on/off parameter); 0-for Lake Superior net basin supplies not being used in NBH3.
LNM - Index: 1-for Lakes Michigan-Huron net basin supplies being used in NBH3; 0-for Lakes Michigan-Huron net basin supplies not being used in NBH3.

- M -

MAXNCD - Maximum number of title cards allowed (currently 10).
MM - Starting month of summer forecast period.

- N -

NAM - Array containing main program title.
NAVE - Monthly average of 12-month running sum of Lakes Michigan-Huron supplies (HCFS).
NBEE - Input - number which running 12-month sum of Lake Erie and/or Lakes Michigan-Huron net basin supplies must be less than in order to reduce the Lake Erie outflow.
NBE1 - Common - average Lake Erie net basin supplies for current month (HCFS).
NBE2 - Input - number which running 12-month sum of Lake Erie and/or Lakes Michigan-Huron net basin supplies must be greater than or equal to in order to increase the Lake Erie outflow.
NEB3 - Input - number which running 12-month sum of Lake Superior and/or Lakes Michigan-Huron net basin supplies must be less than in order to increase the Lake Erie outflow.
NBH - Input - number which running 12-month sum of Lake Superior and/or Lakes Michigan-Huron net basin supplies must be greater than or equal to in order to increase the Lake Erie outflow.
NBHE - Input - number which running 12-month sum of Lake Superior and/or Lakes Michigan-Huron net basin supplies must be less than in order to reduce the Lake Erie outflow.

NBH2 - Input - number which running 12-month sum of Lake Superior and/or Lakes Michigan-Huron net basin supplies must equal or exceed to flow additional water in the Chicago Diversion.

NBH3 - Input - running 12-month sum of Lake Superior plus Lakes Michigan-Huron net basin supplies which must be equalled or exceeded to flow less water from Long Lac-Ogoki Diversion.

NBMH - Input array containing Lakes Michigan-Huron net basin supplies for year previous to beginning year (HCFS).

NBR - Input array containing Lake Erie net basin supplies for year previous to beginning year (HCFS).

NBS - Array containing net basin supplies for Lakes Superior, Michigan-Huron, and St. Clair (HCFS).

NBSE - Array containing Lake Erie quarter-month net basin supplies for each year used in forecast.

NBSEQ - Array - common - containing Lake Erie quarter-month net basin supplies for current year.

NBSJ - Lake Superior net basin supplies used in forecast (HCFS).

NBSM - Array containing Lakes Michigan-Huron net basin supplies (HCFS).

NBSS - Array containing Lake Superior net basin supplies (HCFS).

NBSSC - Array containing Lake St. Clair net basin supplies (HCFS).

NBSS2 - Input array containing net basin supplies for Lake Superior for year previous to beginning year.

NG - Total number of months in forecast period.

NGATE - Output - number of gates used to determine Lake Superior outflow.

NG1 - Total number of gates in forecast period with zero gates = 0, 1/2 gate = 1 and N gates = N + 1 for N between 1 and 16 gates, inclusive.

NHC - Parameter used in PTITLE - output - number of header cards.

NH5 - Array containing 5% Lakes Michigan-Huron net basin supplies for forecast (HCFS).

NH50 - Array containing 50% Lakes Michigan-Huron net basin supplies for forecast (HCFS).

NN - Ending month of forecast period.

NS5 - Array containing 5% Lake Superior net basin supplies used in forecast (HCFS).

NS50 - Array containing 50% Lake Superior net basin supplies used in forecast (HCFS).

N12E - Running 12-month sum of Lake Erie net basin supplies (HCFS).

N12EJ - Running 12-month sum of Lake Erie forecast net basin supplies (HCFS).

N12MH - Running 12-month sum of Lakes Michigan-Huron net basin supplies (HCFS).

N12MHJ - Running 12-month sum of Lakes Michigan-Huron forecast net basin supplies (HCFS)

N12S - Running 12-month sum of Lake Superior net basin supplies (HCFS).

N12SJ - Running 12-month sum of Lake Superior forecast net basin supplies (HCFS).

- O -

OE - Array - common - Lake Erie monthly mean outflows (TCFS).
OLLDJ - Long Lac Ogoki Diversion outflow in forecast (HCFS).
OM - Array - common - Lakes Michigan-Huron monthly mean outflows (TCFS).
OO - Array - common - Lake Ontario monthly mean outflow (TCFS).
OS - Array containing Lake Superior outflows (part of argument of CANADA).
OSC - Array containing Lake St. Clair monthly mean outflows (TCFS).
OSJ - Lake Superior outflow for forecast month (part of argument of CANADA).
OUTFL - Lake Superior outflow from gate setting (also parameter of QSUP).

- P -

PHM - Array containing Lakes Michigan-Huron target stages (feet-IGLD).
PHSD - Array containing Lakes Michigan-Huron standard deviations (feet).
PMMS - Array containing monthly mean Lakes Michigan-Huron levels for year previous to current year (feet-IGLD).
PMMS1 - Array containing the Lakes Michigan-Huron monthly mean levels for year previous to current year; used in forecast (feet-IGLD).
PSM - Array containing Lake Superior target stages (feet-IGLD).
PSSD - Array containing Lake Superior standard deviations (feet).

- Q -

Q - Internal parameter for computing U.S. Slip gauge water level (Lake Superior outflow divided by 1.283).
QB - Input array containing Lake Superior target flows (TCFS).
QSUM - Parameter in call to CANADA for monthly mean level for Lakes Michigan-Huron, used in forecast.

- S -

S - Internal parameter, currently 0.0, used to change the level of Lake St. Clair by a constant for running different conditions; i.e. 1924 or 1978.
SEOP - Array containing Lake Superior beginning-of-period stage (feet-IGLD).
SICE - Array containing Lake Superior ice-retardation parameters (HCFS).
SK - Intermediate parameter used in calculating Lake Superior outflow. Equal to adjusted normal level of Lakes Michigan-Huron.
SNTS - Lake Superior net total supply (Lake Superior net basin supply plus Long Lac-Ogoki Diversion).
SO - Array containing Lake Superior outflows (TCFS-rounded to nearest 10 CFS).
SOJ - Array containing Lake Superior outflows (TCFS-rounded to nearest 10 CFS), used in forecast.
STE - Array - common - Lake Erie monthly mean levels (feet-IGLD).
STMH - Array - common - Lakes Michigan-Huron monthly mean levels (feet-IGLD).
STO - Array - common - Lake Ontario monthly mean levels (feet-IGLD).
STOR - Output - difference between Lake Superior net total supply and Lake Superior outflow (TCFS).

STS - Array - common - Lake Superior monthly mean levels (feet-IGLD).
STSC - Array - common - Lake St. Clair monthly mean levels (feet-IGLD).
STSJ - Lake Superior end-of-month level used in forecast (feet-IGLD).
SUB - Array containing subtactions to Lake Erie outflows (TCFS).
SUM - Average Lakes Michigan-Huron monthly mean levels for accounting year (feet-IGLD).
SUPLIM - Array containing Lake Superior lower flow limit (TCFS).

- T -

TBOMS - Input array containing target stages for increasing Chicago Diversion outflows. When Lakes Michigan-Huron beginning-of-month level is greater than the corresponding target stage, the Chicago Diversion outflow may be increased.
TEMP - Intermediate parameter.
TEMPL - Change limit in Lake Superior lower flow limit (previous month flow minus allowable change (CHNG)) (TCFS).
TEMPS - Lake Superior previous month outflow, used in forecast (TCFS).
TEMPSO - Input - Lake Superior monthly mean flow for the month previous to the starting month (TCFS).
TEMPU - Upper Lake Superior outflow change limit (previous month flow plus allowable change (CHNG) (TCFS).
TMMS - Input - target level for increasing Chicago Diversion for specific year, if previous year average level exceeds or is equal to this level.

- U -

USS - Array containing the U.S. Slip gauge levels (feet-IGLD).
USSL - Initial guess of U.S. Slip stage (feet-IGLD).

- X -

X - Additional Chicago Diversion index: 1-when the running sums or supplies exceed targets; 0-otherwise. Also used as intermediate parameter in calculating the U.S. Slip stage.

- Y -

Y - Additional Chicago Diversion index: 1-when the Lakes Michigan-Huron beginning-of-month level exceeds monthly target level; 0-otherwise. Also used as intermediate parameter in calculating the U.S. Slip stage.

- Z -

ZERO - 0.0; used to write final record for middle lakes print file.

3.2 List of Variables -- Subroutines

The main program P4827 uses 11 subroutines. These are listed and briefly described below.

3.2.1 Subroutine ABSICE

Purpose. To compute absolute ice where ice is a floating point array. Using intrinsic function ABS, returns absolute value of ice.

Argument list. ABSICE (AICE).

Description of variables.

AICE - Input and output - vector, length 12, of which the absolute value is taken.
I - Loop index.

3.2.2 Subroutine QSUP

Purpose. Compute Lake Superior gate settings and flow.

Arguments. QSUP(JJ, REQFL, SBEG, OUT, X1, Y1, Z1, N, M,).

Description of variables.

DIF - Internal - difference between regulated flow and gate flow.
JJ - Input - month index: 1=Dec; 2=Jan to Apr; 3=May to Nov.
M - Input - index for calculating gate setting; 0 for returning constants for given gate settings, 1 for calculating gate setting.
N - Input and output - number of gates; 1=1/2 gate, 2=1 gate.... 17=16 gates.
OUT - Output - Lake Superior outflow for gate setting (TCFS).
REQFL - Input - Lake Superior regulated flow (TCFS).
SBEG - Input - Lake Superior beginning-of-month level (feet).
X - Array containing conversion constant for gate setting.
X1 - Output - feet to TCFS conversion constant for gate setting.
Y - Array containing stage factor constants for gate equations.
Y1 - Output - stage factor constant for gate setting.
Z - Array containing mean bottom constants for gate equations.
Z1 - Output - mean bottom constant for gate setting.

3.2.3 Subroutine CANADP

Purpose. Subroutine to route middle lakes, i.e. compute monthly stages and outflows for Lakes Michigan-Huron, St. Clair and Erie, using 1962-1968 conditions.

Arguments. CANADP (IYR, K, EOPMH, EOPSC, EOPE, SMH, RISC, SLSC, RID, RIN, XAV3, XAV6, XAV9)

Description of variables.

ADD - Common - array containing additions to Lake Erie outflow.
AVEE - Common - array of Lake Erie monthly mean levels.
AVEMH - Common - array of Lakes Michigan-Huron monthly mean levels.
AVESC - Common - array of Lake St. Clair monthly mean levels.

BOME - Common - array of Lake Erie beginning-of-month levels.
BOHM - Common - array of Lakes Michigan-Huron beginning-of-month levels.
BOMO - Common - array of Lake Ontario beginning-of-month levels.
BOMS - Common - array of Lake Superior beginning-of-month levels.

C - Internal parameter - $\left(\frac{\text{M-H stage and St Clair stage}}{2}\right)$ - 543.40 used in Lakes Michigan-Huron outflow equation.
CD - Common - array of additional Chicago Diversion flows (TCFS).
CDP - Common - basic Chicago Diversion flow (TCFS).

D - Internal Parameter - Lake St. Clair stage - 543.81 feet used in Lake St. Clair flow equation.

EOPE - Input and output - end-of-period level Lake Erie (feet-IGLD).
EOPMH - Input and output - end-of-period level Lakes Michigan-Huron (feet-IGLD).
EOPSC - Input and output - end-of-period level Lake St. Clair (feet).
EQNBS - Internal - Lake Erie quarter month NBS (TCFS).

HE - Internal - average Lake Erie level for period.
HMH - Internal - average Lakes Michigan-Huron level for period.
HMH1 - Internal - average Lakes Michigan-Huron level for period, adjusted (used in flow equation).
HSC - Internal - average Lake St. Clair level for period.
HSC1 - Internal - average Lake St. Clair level for period, adjusted (used in flow equation).

I - Index of loop to calculate average Lakes Michigan-Huron stage for accounting year.
IBY - Common - Beginning year of regulation.
IES - Common - Lake Erie quarter month outflow for running other Lake Ontario plans (HCFS).
IEY - Common - ending year of regulation.
IFOP - Common - Deviation code for Lake Ontario with 1958-D, 1=yes 0=no.
IJK - Common - yearly mean stage index; used to increase or decrease Chicago Diversion: 1-yearly mean stage larger than target stage (applies Chicago Diversion correction); 0-yearly mean stage not larger than target stage (no Chicago Diversion correction applied).
INM - Common - 1-for Lakes Michigan-Huron NBS utilized in running sum (NBH) (added to Lake Erie outflow); 0-for no utilization.
INME - Common - 1-for Lakes Michigan-Huron supplies in NBHE (subtract from Lake Erie outflow); 0-otherwise.

INM2 - Common - 1-for Lakes Michigan-Huron supplies in NBH2 (add to Chicago Diversion); 0-otherwise.
INS - Common - 1-for Lake Superior supplies in NBH (add to Chicago Diversion); 0-otherwise.
INSE - Common - 1-for Lake Superior supplies in NBHE (decreases Lake Erie outflow); 0-otherwise.
INS2 - Common - 1-for Lake Superior supplies in NBH2 (additional Chicago Diversion); 0-otherwise.
IY - Common - current regulation year.
IYR - Input - current regulation year.

J- Index of tenth-of-quarter loop.
JDX - Internal - end-of-month index: 1-for end-of-month; 2-otherwise.

K - Input - current regulation month.
K1 - Common - first month of accounting year for controlling Chicago Diversion by stage.

L - Index of successive approximation loop.
LA - Quarter-of-year index, used for converting Lake Erie supplies.
LL - Index for loop converting Lake Erie supplies.

M1 - Internal - present quarter-of-month + 1.
M2 - Internal - present quarter-of-year.

NBEE - Common - number which running twelve-month sum of Lakes Erie and/or Michigan-Huron NBS must be $\leq$ to reduce Lake Erie outflow.
NBE1 - Common - average Lake Erie NBS for current month.
NBE2 - Common - number which running twelve-month sum of Lakes Erie and/or Michigan-Huron must be $\geq$ to increase Lake Erie outflow.
NBE3 - Common - number which running twelve-month sum of Lake Erie NBS must be $\geq$ to increase Chicago Diversion.
NBH - Common - number which running twelve-month sum of Lakes Superior and/or Michigan-Huron NBS must be $\geq$ to increase Lake Erie outflow.
NBHE - Common - number which running twelve-month sum of Lakes Superior and/or Michigan-Huron NBS must be $\leq$ to reduce Lake Erie outflow.
NBH2 - Common - number which running twelve-month sum of Lakes Superior and/or Michigan-Huron NBS must $\geq$ to increase Lake Erie flow.
NBS - Common - array of Lakes Superior, Michigan-Huron and St. Clair NBS.
NBSEQ - Common - array of Lake Erie quarter-month NBS for current regulation year.
N12E - Common - running twelve-month sum of Lake Erie NBS (HCFS).
N12MH - Common - running twelve-month sum of Lakes Michigan-Huron NBS (HCFS).
N12S - Common - running twelve-month sum of Lake Superior NBS (HCFS).

OE - Internal - outflow from Lake Erie.
OM - Common - array of outflows for Lakes Michigan Huron, monthly means for current regulation year.
OMH - Internal - outflow Lakes Michigan-Huron.
OO - Common - array of Lake Ontario monthly mean outflow for current regulation year.
OSC - Internal - outflow of Lake St. Clair.

PMMS - Common - array of Lakes Michigan-Huron monthly mean levels for 12 months previous to current regulation month.

QAV1 - Tape 60 input - Lakes Michigan-Huron quarter-month NTS (TCFS).
QAV2 - Tape 60 input - Lakes Michigan-Huron quarter-month stage (feet).
QAV3 - Tape 60 input - Lakes Michigan-Huron quarter-month flow (TCFS).
QAV4 - Tape 60 input - Lake St. Clair quarter-month NTS (TCFS).
QAV5 - Tape 60 input - Lake St. Clair quarter-month stage (feet).
QAV6 - Tape 60 input - Lake St. Clair quarter-month flow (TCFS).
QAV7 - Tape 60 input - Lake Erie quarter-month NTS (TCFS).
QAV8 - Tape 60 input - Lake Erie quarter-month stage (feet).
QAV9 - Tape 60 input - Lake Erie quarter-month flow (TCFS).
QSUM1 - Internal - quarter-month sum Lakes Michigan-Huron NBS (TCFS).
QSUM2 - Internal - quarter-month sum Lakes Michigan-Huron stage (feet).
QSUM3 - Internal - quarter-month sum Lakes Michigan-Huron flow (TCFS).
QSUM4 - Internal - quarter-month sum Lake St. Clair NBS (TCFS).
QSUM5 - Internal - quarter-month sum Lake St. Clair stage (feet).
QSUM6 - Internal - quarter-month sum Lake St. Clair flow (TCFS).
QSUM7 - Internal - quarter-month sum Lake Erie NBS (TCFS).
QSUM8 - Internal - quarter-month sum Lake Erie stage (feet).
QSUM9 - Internal - quarter-month sum Lake Erie flow (TCFS).

RID - Input - retardation of Lake St. Clair outflow.
RIN - Input - retardation of Lake Erie outflow.
RISC - Input - retardation of Lakes Michigan-Huron outflow.

SH - Common - array of Lake Superior monthly mean levels, current regulation year.
SLSC - Input - Lake St. Clair NBS (TCFS).
SMH - Input - Lakes Michigan-Huron NBS (TCFS).
SNTE - Internal - Lake Erie quarter-month NTS.
SNTMH - Internal - Lakes Michigan-Huron quarter-month NTS minus Chicago Diverion.
SNTSC - Internal - Lake St. Clair quarter-month NTS.
SO - Common - Lake Superior flows, current regulation year.
SOT - Common - Lake Ontario levels, current regulation year.
STE - Common - Lake Erie levels, current regulation year.
STMH - Common - Lakes Michigan-Huron levels, current regulation year.
SUB - Common - amount deducted from Lake Erie outflow.
SUM - Internal - average of Lakes Michigan-Huron monthly mean levels for previous accounting year.

TBOMS - Common - target levels for Chicago Diversion. Lakes Michigan-Huron beginning-of-month levels must exceed coordinated level to increase diversion.
TMMS - Common - target level for Chicago Diversion. Chicago Diversion increases if yearly average Lakes Michigan-Huron monthly mean for level accounting year exceeds this.

X - Internal - Chicago Diversion supply index. When twelve-month moving sum supplies exceed targets x=1 (Chicago Diversion increased); x=0 otherwise (no increase).
XAV1 - Internal, Tape 60 input - monthly mean Lakes Michigan-Huron NTS (TCFS).

XAV2 - Internal, Tape 60, input - monthly mean Lakes Michigan-Huron stage (feet-IGLD).
XAV3 - Internal, Tape 60, input - monthly mean Lakes Michigan-Huron flow (TCFS).
XAV4 - Internal, Tape 60, input - monthly mean Lake St. Clair NTS (TCFS).
XAV5 - Internal, Tape 60, input - monthly mean Lake St. Clair stage (feet-IGLD).
XAV6 - Internal, Tape 60, input - monthly mean Lake St. Clair flow (TCFS).
XAV7 - Internal, Tape 60, input - monthly mean Lake Erie NTS (TCFS).
XAV8 - Internal, Tape 60, input - monthly mean Lake Erie stage (feet-IGLD).
XAV9 - Internal, Tape 60, input - monthly mean Lake Erie flow (TCFS).
XHE - Internal - Lake Erie beginning-of-period levels (feet-IGLD).
XHMH - Internal - Lakes Michigan-Huron beginning-of-period levels (feet-IGLD).
XHSC - Internal - Lake St. Clair beginning-of-period levels (feet-IGLD).
XSUM1 - Internal - Lakes Michigan-Huron monthly sum of tenth-of-quarter-month NTS (TCFS).
XSUM2 - Internal - Lakes Michigan-Huron monthly sum of tenth-of-quarter-month stages (feet-IGLD).
XSUM3 - Internal - Lakes Michigan-Huron monthly sum of tenth-of-quarter-month flows (TCFS).
XSUM4 - Internal - Lake St. Clair monthly sum of tenth-of-quarter-month NTS (TCFS).
XSUM5 - Internal - Lake St. Clair monthly sum of tenth-of-quarter-month stages (feet-IGLD).
XSUM6 - Internal - Lake St. Clair monthly sum of tenth-of-quarter-month flows (TCFS).
XSUM7 - Internal - Lake Erie monthly sum of tenth-of-quarter-month NTS (TCFS).
XSUM8 - Internal - Lake Erie monthly sum of tenth-of-quarter-month stages (feet-IGLD).
XSUM9 - Internal - Lake Erie monthly sum of tenth-of-quarter-month flows (TCFS).
XX - Common - Lake Erie monthly mean flow, for current regulation year.

Y - Internal - 1-for Lakes Michigan-Huron beginning-of-month level exceeding Chicago Diversion increase target level for month, 0-otherwise.

3.2.4 Subroutine CANADA

Purpose. Subroutine used to compute the average gate setting for the Lake Superior Compensating Works.

Arguments. CANADA (A, B, IYR, K, K1, EOPMH, EOPSC, EOPE, SMH, RISC, SLSC, ID, SE, RIN, NBSE, CD, FNIA, QSUM).

Description of variables.

A - Input - number added to Lakes Michigan-Huron stage to change conditions.

B - Input - number added to Lake St. Clair stage to change conditions.

C - Internal parameter - used in Lakes Michigan-Huron outflow equation: [(M-H stage + St. C stage)/2]-543.40.

CD- Input - Chicago Diversion.

D- Internal parameter - used in Lake St. Clair outflow equation: St. C stage - 543.81.

EOPE - Input and output - end-of-period Lake Erie level.
EOPMH - Input and output - end-of-period Lakes Michigan-Huron level.
EDPSC - Input and output - end-of-period Lake St. Clair level.

FNIA - Input - additional Lake Erie outflow.

HE - Internal - average Lake Erie level for period.
HMH - Internal - average Lakes Michigan-Huron stage for peiord.
HMH1 - Internal - average Lakes Michigan-Huron stage for period, corrected (used in flow equation).
HSC - Internal - average Lake St. Clair elevation for period.
HSC1 - Internal - average Lake St. Clair elevation, corrected (used in flow equation).

IYR - Input - not used.

J - Index of tenth-of-quarter loop.

K - Input - not used.
K1 - Input - not used.

L - Index of successive approximation loop.
LL - Index of quarter-month loop.

NBSE - Input - Lake Erie quarter-month supplies (HCFS).

OE - Internal - outflow from Lake Erie for period (TCFS).
OMH - Internal - outflow from Lakes Michigan-Huron for period (TCFS).
OSC - Internal - outflow from Lake St. Clair for period (TCFS).

QSUM - Output - Lakes Michigan-Huron monthly mean level (feet-IGLD).

RID - Input - retardation - Lake St. Clair outflow.

SE - Input - not used.
SLSC - Input - Lake St. Clair NBS (TCFS).
SMH - Input - Lakes Michigan-Huron NTS (TCFS).
SNTE - Internal - Lake Erie NTS (TCFS).
SNTMH - Internal - Lakes Michigan-Huron NTS minus Chicago Diversion (TCFS).
SNTSC - Internal - Lake St. Clair NTS (TCFS).

XHE - Internal - Lake Erie beginning-of-period level.
XHMH - Internal - Lakes Michigan-Huron beginning-of-period level.
XHSC - Internal - Lake St. Clair beginning-of-period level.

3.2.5 Subroutine R1958D

Purpose. Compute stages and flows for Lake Ontario given beginning stage and net total supplies (NTS).

Description of Parameters.

AVEE - Common - average monthly mean stage Lake Erie (feet-IGLD).
AVEMH - Common - average monthly mean stage Lakes Michigan-Huron (feet-IGLD).
AVESC - Common - average monthly mean stage Lake St. Clair (feet-IGLD).

BOQ - Internal - array with beginning-of-period levels Lake Ontario.

CON - Internal - 1/16.5.
CON139 - Internal - 1/139.
CON17 - Internal - 1/17.
CON48 - Internal - 1/48.
CON6 - Internal - 1/6.
CON7 - Internal - 1/7.
CON9 - Internal - 1/9.

EE1 - Common - Lake Erie beginning-of-month levels during current regulation year.
EE2 - Common - Lake Erie monthly mean levels during current regulation year.
EH1 - Common - Lakes Michigan-Huron beginning-of-month level, current regulation year.
EO1 - Common - Lake Ontario beginning-of-month level, current regulation year.
EO2 - Common - Lake Erie month mean flows, current regulation year.
ES1 - Common - Lake Superior beginning-of-month levels, current regulation year.

HE2 - Common - Lakes Michigan-Huron monthly mean levels, current regulation year.
HSL - Lake St. Louis quarter monthly mean level, current regulation year.

I - Internal - current quarter-of-month, index of loop.
IACUM - Internal - accumulative deviation from plan (TCFS).
IASIDN - Input - adjusted supply indicator which must not be exceeded for Lake Ontario flow to be increased.
IASIUP - Input - adjusted supply indicator which must be exceeded for Lake Ontario flow to be increased.
IBY - Common - beginning year of regulation.
IC - Internal Tape 61 input - symbol of applicable limitation (blk, I, J, L, M, P, P*)
ICE - Internal - Lake Ontario ice retardation, current regulation year.
ICESL - Internal - Lake St. Louis ice retardation, current regulation year.
INDEX - Input - "I" limitation index: 1-for I limit, 0-otherwise.
INK - Internal - change in stage (hundreths of a foot).
IOH - Input - number which running sum of Lake Ontario 48 quarter-month NBS must be greater than to increase Lake Ontario flow.

IOL - Input - number which running sum of Lake Ontario 48 quarter-month NBS must be less than to decrease Lake Ontario outflow.
IQ - Input - Basic Rule Curve flow.
IQAD - Internal - adjustment in Basic Rule Curve flow.
IQB - Input - quarter of first computations line printout.
IQE - Input - final quarter.
IQR - Write Tape 61 - current quarter of regulation month.
IQ1 - Internal - used to determine appropriate flow limit.
IQ2 - Write Tape 61 - Basic Rule Curve flow plus adjustment.
IQ3 - Write Tape 61 - flow after limit applied.
IS - Write Tape 61 - supply indicator (TCFS).
ISA - Write Tape 61 - seasonal adjustment to Basic Rule Curve flow (TCFS).
ISI - Input - previous 22 quarter supply indicators.
ISIT - Internal-initial change in supply indicators in quarters.
IST - Write Tape 61 - 16.5 x weighted supply indicator (TCFS).
ISTAG - Internal - current beginning-of-period stage minus 24,000, used in basic flow computation (0.01 of a foot).
ISTAGE - Internal - current beginning-of-period stage minus 24,000, used in "L" limitation computation (0.01 of a foot).
ISTAG1 - Internal - current end-of-period stage minus 24,000 (0.01 of a foot).
ISTOR - Write Tape 61 - storage on Lake Ontario (TCFS).
ISUM - Write Tape 61 - adjustment to supply indicator (TCFS).
ITOT - Write Tape 61 - adjustment to supply indicator (TCFS).
IUP - Input - amount Lake Ontario flow is increased by, by month (TCFS).
IWS - Write Tape 61 - weighted supply.
IX - Internal - current quarter-of-year.
IXY - Internal - current quarter-of-month.
IY - Common, write Tape 61 - current regulation year.
IYEARB - Input - year of first line printed out.
IYEARE - Input - ending year of regulation period.
IYR - Input Tape 66 - current year.

JSTAGE - Write Tape 61 - end-of-quarter theoretical level (0.01 of a foot).

IDIS - Input Tape 66 - quarter-month deviation from plan, current regulation year.
IDN - Input - amount/month Lake Ontario flow decreased by (TCFS).
IE - Input - limitation code number: 1=I, 2=J, 3=L, 4=M, 5=P, 6=P* 7=blk.
IEH - Input - running sum of Lake Erie 48 quarter-months NBS which must be exceeded for the Lake Ontario outflow to be increased.
IEL - Input - running sum of Lake Erie 48 quarter-months NBS which must not be exceeded if the Lake Ontario outflow to be decreased.
IES - Common - Lake Erie quarter-month flow (HCFS).
IEX - Input - exceedance probability (0).
IEY - Common - ending year of regulation.
IEI - Input- optional limitation code for initial regulation quarter (see IE).
IFF - Internal - change in supply for previous nine quarters.
IFLO - Input Tape 66 - difference between Lake Ontario and Lake St. Louis flow for current year, by quarter.
IFO - Common - Lake Ontario deviation code: 1-deviation, 0-no deviation.

II - Loop index.
III - Internal - entry index.
IJK - Internal - negative adjustment indicator: 1-for positive, 0-for negative.
IMH - Target number that running twelve-month sum of Lakes Superior and Michigan-Huron NBS must be greater than to increase Lake Ontario outflow.
IMC - Target number that running twelve-month sum of Lakes Superior and Michigan-Huron NBS must be less than to decrease Lake Ontario outflow.

JSTAGE1 - Write Tape 61 - end-of-quarter actual level (0.01 of a foot).

K - Internal - supply indicator index.
KL - Index of loop to move supply indicators.

L - Index of difference between supply indicators.
LIM - Write Tape 61 - Lake Ontario theoretical flow (TCFS).
LIM1 - Input optional - first quarter forced flow (TCFS).
LPSTAR - Internal - used for "P*" limitation (225 - $\frac{\text{diff. in flow}}{6}$).

M - Internal - quarter of year in Lake St. Louis stage computation.
MAX - Input- maximum "P" limitation values.
MAXE - Internal - number of applicable maximum limit.
MAXL - Internal - value of "L" limitation.
MAXLIM - Internal - value of maximum limit.
MAXP - Internal - maximum "P" limitation value for current quarter.
MAXP1 - Internal - MAXP + previous quarter supply indicator (maximum "P").
MIN - Input - minimum "P" limitation values.
MINP - Internal - minimum "P" limitation value for quarter.
MKL - Index for loop to move monthly mean levels and flows for Lake Ontario.
ML - Internal - current value of "M" limitation.
MLIM - Input - values of "M" limitation by month.
MN - Internal - used as upper limit in quarter-month output loop.
MOB - Input - beginning-of-month of first line printout.
MOE - Input - last month of regulation period.
MON - Internal - name of months.
MVP - Internal - used to move supply indicators to new year.
M1 - Internal - initial quarter for regulation year loop.
M2 - Internal - final quarter for regulation year loop.

NBS - Read from Tape 66 - Lake Ontario NBS for current regulation year.
NBSEQ - Common - Lake Erie quarter month NBS.
NBSUL - Common - NBS for Lakes Superior, Michigan-Huron and St. Clair.
NE - Input - Lake Erie previous year NBS.
NM - Internal - used as lower limit in quarter-monthly output loop.
NMH - Input - Lakes Michigan-Huron previous years NBS.
NNTS - Input - initial quarter NTS (TCFS).
NO - Input - Lake Ontario previous years NBS.
NS - Input - Lake Superior previous years NBS.

NSE - Interral - running 48 quarter-month sum of Lake Erie NBS.
NSO - Internal - running 48 quarter-month sum of Lake Ontario NBS.
NSSMH - Internal - running twelve-month sum of Lakes Superior and Michigan-Huron NBS.
NTS - Internal - Lake Ontario quarter-month net total supply (TCFS).
NTSO - Internal - Lake Ontario quarter-month net total supply (HCFS).
NWS - Write Tape 61 - normal weighted supply.

OE2 - Common - Lake Ontario monthly mean stage for current regulation year (TCFS).
OO2 - Common - Lake Ontario monthly mean flow for current regulation year (TCFS).
OQK - Internal - Lake Ontario quarter-month flow (TCFS).
OQMS - Internal - Lake Ontario quarter-month stage (feet).
OUT - Internal - Lake Ontario monthly mean flow for current regulation year (TCFS).

POW - Internal - power of Lake St. Louis level equation.

SE2 - Common - Lake Superior monthly mean level for current regulation year (feet).
SLQF - Internal - Lake St. Louis quarterly flow (TCFS).
SO2 - Common - Lake Superior monthly mean flows for current regulation year (TCFS).
STAGE - Internal - Lake Ontario monthly mean levels for current regulation year (feet).
STAG1 - Internal - Lake Ontario actual level (feet).
SUM - Internal - sum and average of changes in seasonal index in 12 quarters.

XNK - Output - change in stage.
XSTAGE - Output - Lake Ontario theoretical stage (feet).
XSTAG1 - Output - Lake Ontario actual stage (feet).

3.2.6 Subroutine PRTHCE

Purpose. This subroutine outputs, in table form, the stages and outflows for Lakes Michigan-Huron, St. Clair, and Erie.

Argument list. PRTHCE (NAM, MAXNCD, ITITLE, NCD).

Description of variables.

EOPE - Output - end-of-period Lake Erie elevation (feet).
EOPMH - Output - end-of-period Lakes Michigan-Huron elevation (feet).
EOPSC - Output - end-of-period Lake St. Clair elevation (feet).

III - Parameter of CALL PTITLE (end of file indicator).
ITILE - Parameter of CALL PTITLE (title of run).
ITP - Number of input tape = 60.
IYR - Output - current run year.

JND - Index of quarter-month loop.

K - Output - current run month.
KN - Index of half-year loop.
KNO - Index of ninth loop for half-year.

MAXNCD - Parameter of CALL PTITLE (maximum number of title cards).
M1 - Output - current run quarter.

NCD - Parameter of CALL PTITLE (maximum number of title cards).

QAV1 - Output - Lakes Michigan-Huron quarter-month NTS (TCFS).
QAV2 - Output - Lakes Michigan-Huron quarter-month mean stage (feet).
QAV3 - Output - Lakes Michigan-Huron quarter-month mean flow (TCFS).
QAV4 - Output - Lake St. Clair quarter-month NTS (TCFS).
QAV5 - Output - Lake St. Clair quarter-month mean stage (feet).
QAV6 - Output - Lake St. Clair quarter-month mean flow (TCFS).
QAV7 - Output - Lake Erie quarter-month NTS (TCFS).
QAV8 - Output - Lake Erie quarter-month mean stage (feet).
QAV9 - Output - Lake Erie quarter-month mean flow (TCFS).

XAV1 - Output - Lakes Michigan-Huron monthly NTS (TCFS).
XAV2 - Output - Lakes Michigan-Huron monthly mean stage (feet).
XAV3 - Output - Lakes Michigan-Huron monthly mean flow (TCFS).
XAV4 - Output - Lake St. Clair monthly NTS (TCFS).
XAV5 - Output - Lake St. Clair monthly mean stage (feet).
XAV6 - Output - Lake St. Clair monthly mean flow (TCFS).
XAV7 - Output - Lake Erie monthly mean NTS (TCFS).
XAV8 - Output - Lake Erie monthly mean stage (feet).
XAV9 - Output - Lake Erie monthly mean flow (TCFS).

3.2.7 Subroutine PRTONT

Purpose. This subroutine outputs, in tabular form, the stages and outflow for Lake Ontario.

Argument list. PRTONT (NAM, MAXNCD, ITITLE, NCD).

Description of variables.

I - Index of month loop.
IC - Output - letter for applicable limit (blank, I,J,L,M,P,P*)
IFF - Output - change in supply indicator (TCFS).
III - Parameter of CALL PTITLE (end of file index).
INK - Input from Tape 61 - change in storage (feet) = XNK.
IQ - Output - Basic Rule Curve flow.
IQ2 - Output - seasonal adjusted flow (IQ + ISA) (TCFS).
IQ3 - Output - Lake Ontario flow after limit applied to (TCFS).
IS - Output - supply indicator (TCFS).
ISA - Output - seasonal adjustment to Basic Rule Curve flow (TCFS).
IST - Output - 16.5 x weighted supply (TCFS).
ISTAGE - Input from Tape 61 - theoretical stage = XSTAGE.
ISTAG1 - Input from Tape 61 - actual stage = XSTAG1.

ISTOR - Output - change in storage (TCFS).
ISUM - Output - adjustment to supply indicator (TCFS).
ITITLE - Parameter of CALL PTITLE (title of run).
ITOT - Output - adjusted supply indicator (TCFS).
ITP - Number of input tape = 61.
IWS - Output - weighted supply (TCFS).
IY - Output - current run year.
IYI - Output - current run quarter.

LIM - Output - Lake Ontario flow after limits applied (TCFS).

MAXNCD - Parameter of CALL PTITLE (maximum number of title cards).
MAXP - Output - maximum "P" limit for current run quarter.
MINP - Output - minimum "P" limit for current run quarter.
MON - Output - name of run month.

NAM - Parameter of CALL PTITLE (name of program).
NCD - Parameter of CALL PTITLE (number of header cards).
NTS - Output - Lake Ontario NTS (TCFS).
NWS - Output - normal weighted supply for 1958-D.

XNK - Output - change in stage (feet).
XSTAGE - Output - theoretical plan stage (feet).
XSTAG1 - Output - actual plan stage (feet).

3.2.8 Subroutine ROUND

Purpose. This subroutine rounds floating point numbers using U.S. Lake Survey rounding.

Argument list. ROUND (A, IA).

Description of variables.

A - Input floating point number.
IA - Output fixed point number.

3.2.9 Subroutine IABICE

Purpose. Computes absolute value of ICE, where ICE is a fixed point array.

Argument list. IABICE (ICE).

ICE - Input, output - array containing 12 ice values.

3.2.10 Subroutine PTITLE.

Purpose. Subroutine to read and print date, time and titles.

Argument list. PTITLE (III, NAM, MAXNCD, ITITLE, NCD, JJJ).

Description of varibles.

I - Index - print NAM loop and print ITITLE loop.
IBK - Internal - parameter containing blank.
IDAY - Parameter in CALL STDMY (date of run).
IHR - Parameter in CALL STDMY (hour and minute of run).
III - Input - 1) read date and time; 2) read title to blank; 3) print time and title.
IMON - Parameter in CALL STDMY (name of month of run).
ITITLE - Output - array containing title of run.
IYR - Parameter in CALL STDMY (year of run).

J - Index - count number of cards.
JJJ - Output - end of file index: 1-for not end of file; 2-for end of file.

M - Start indicator of last title card.
MAXNCD - Input - maximum number of title cards.

N - Number of character spaces title requires.
NAM - Input - array with program name.
NCD - Output - number of title cards.

3.2.11 Subroutine STDMY

Purpose. Determines date and time of run using CDC subroutines for 6000 or 7600 machines at LBL.

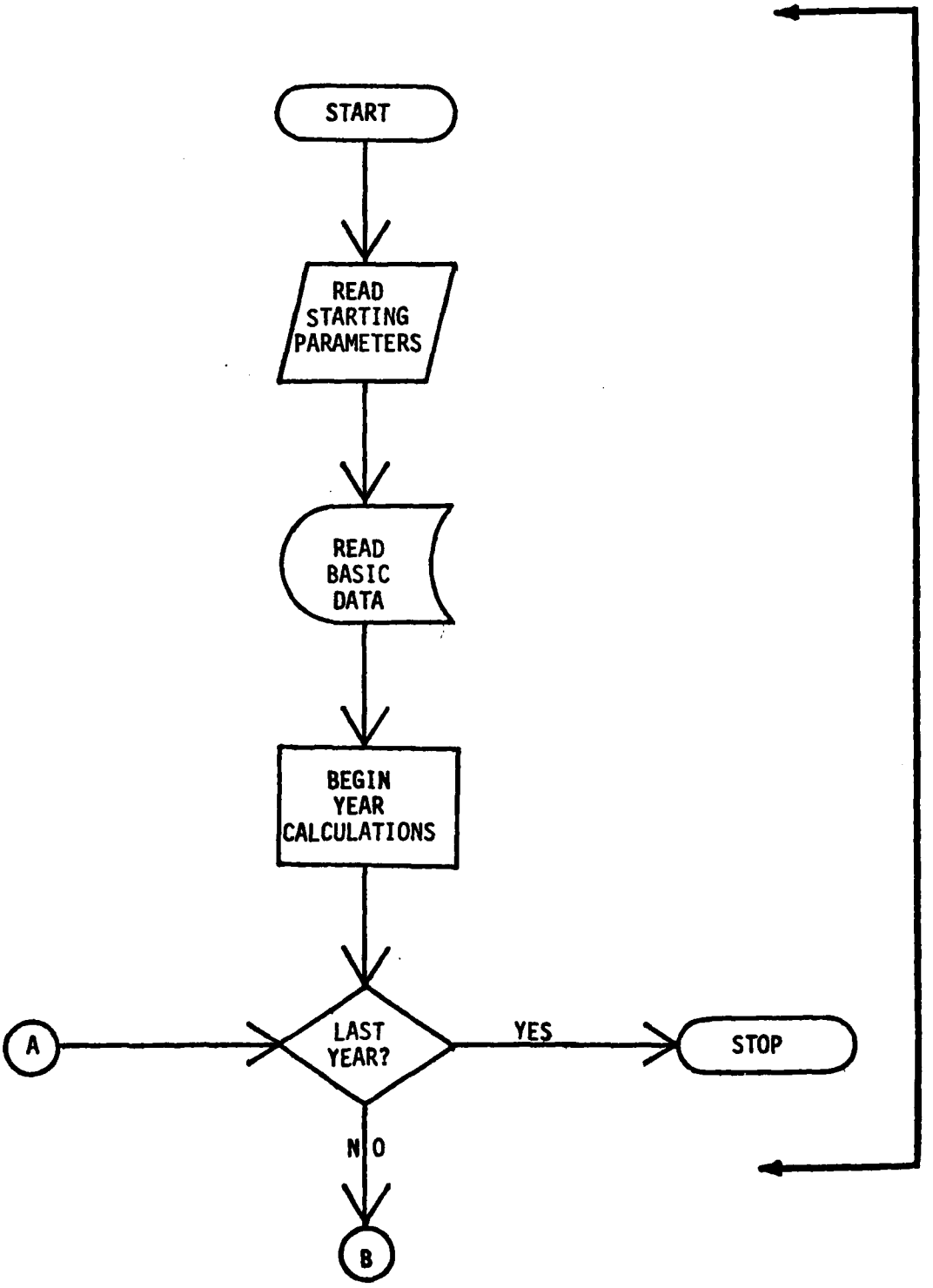
Argument list. STDMY (IDAY, JMO, IYR, JHR).

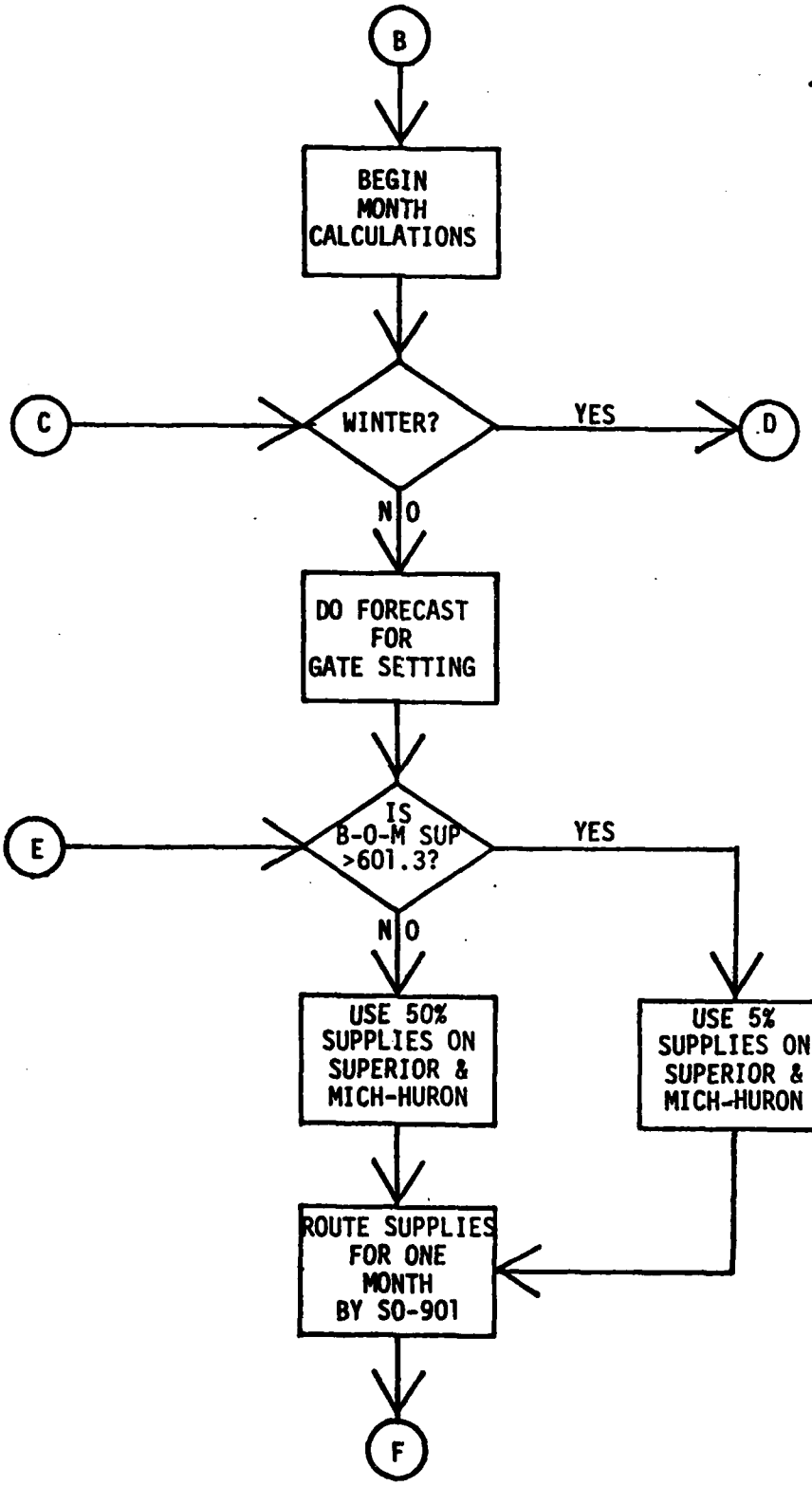
Description of varibles.

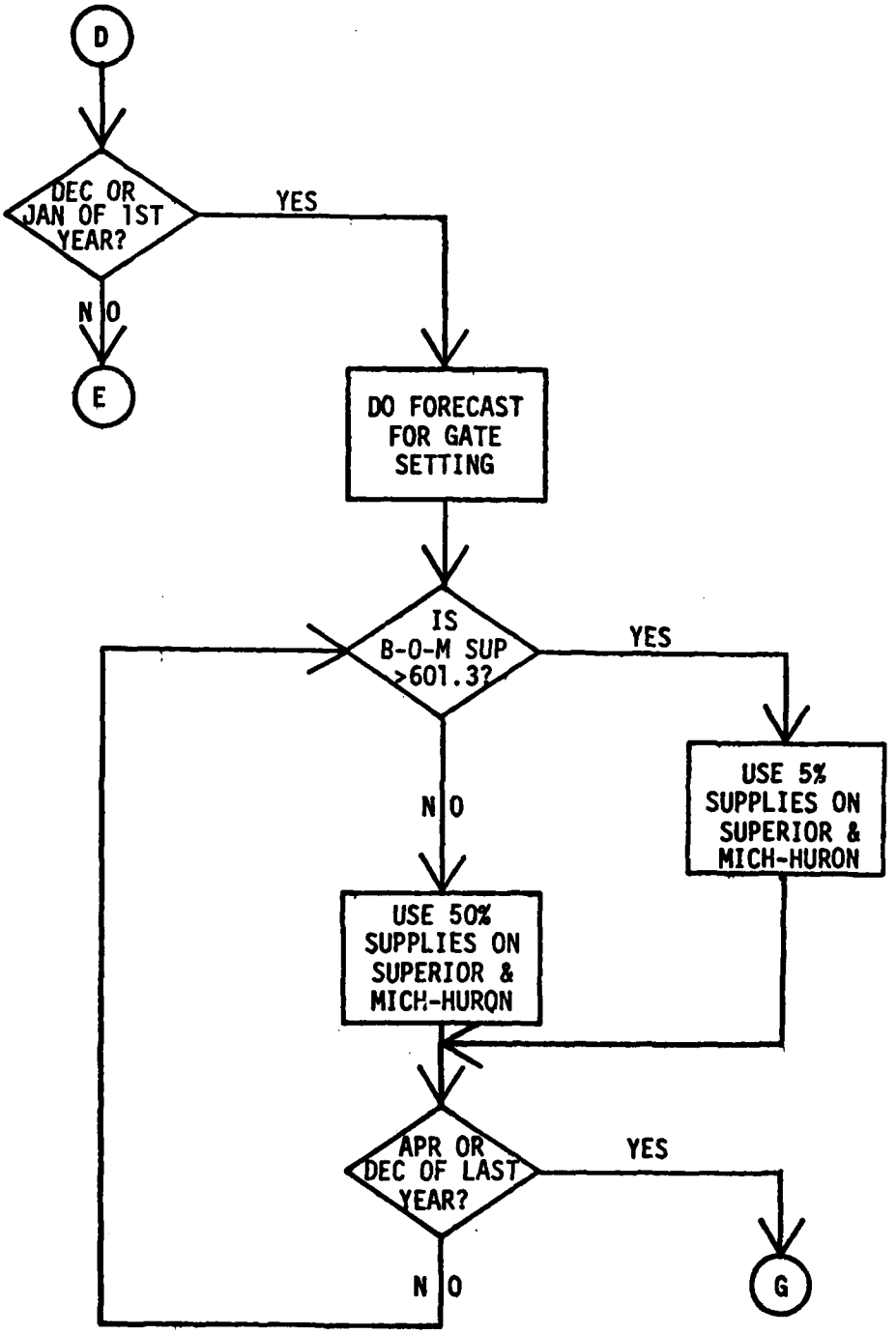
IDATE - Parameter of CALL DATE (contains date in form: dd/mm/yy).
IDAY - Output - day of run.
IHR - Internal - hour of day of run.
IMIN - Internal - minutes of time beyond hour of run.
IMON - Internal - month of date of run.
ISEC - Internal - seconds of time beyond whole minutes of time of run.
ITIME - Parameter of CALL HOUR (time in form: hh/mm/ss).
IYR - Output - year.
JHR - Output - hour and minute of time of run.
JMO - Output - name of month.

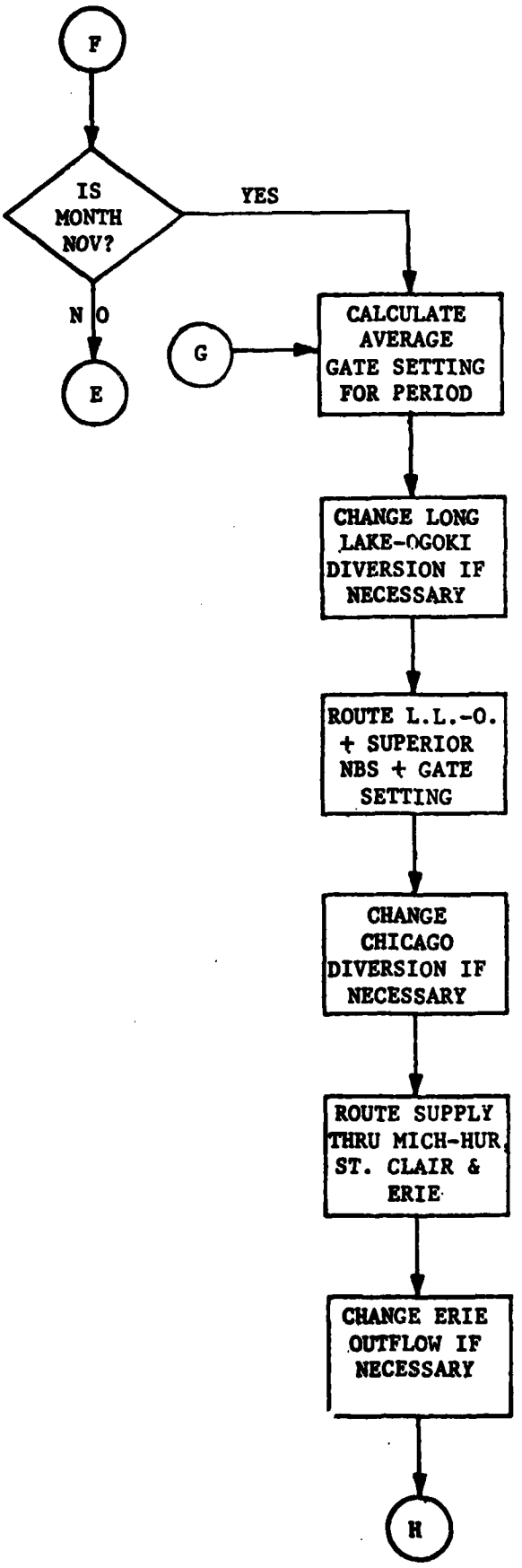
Section 4

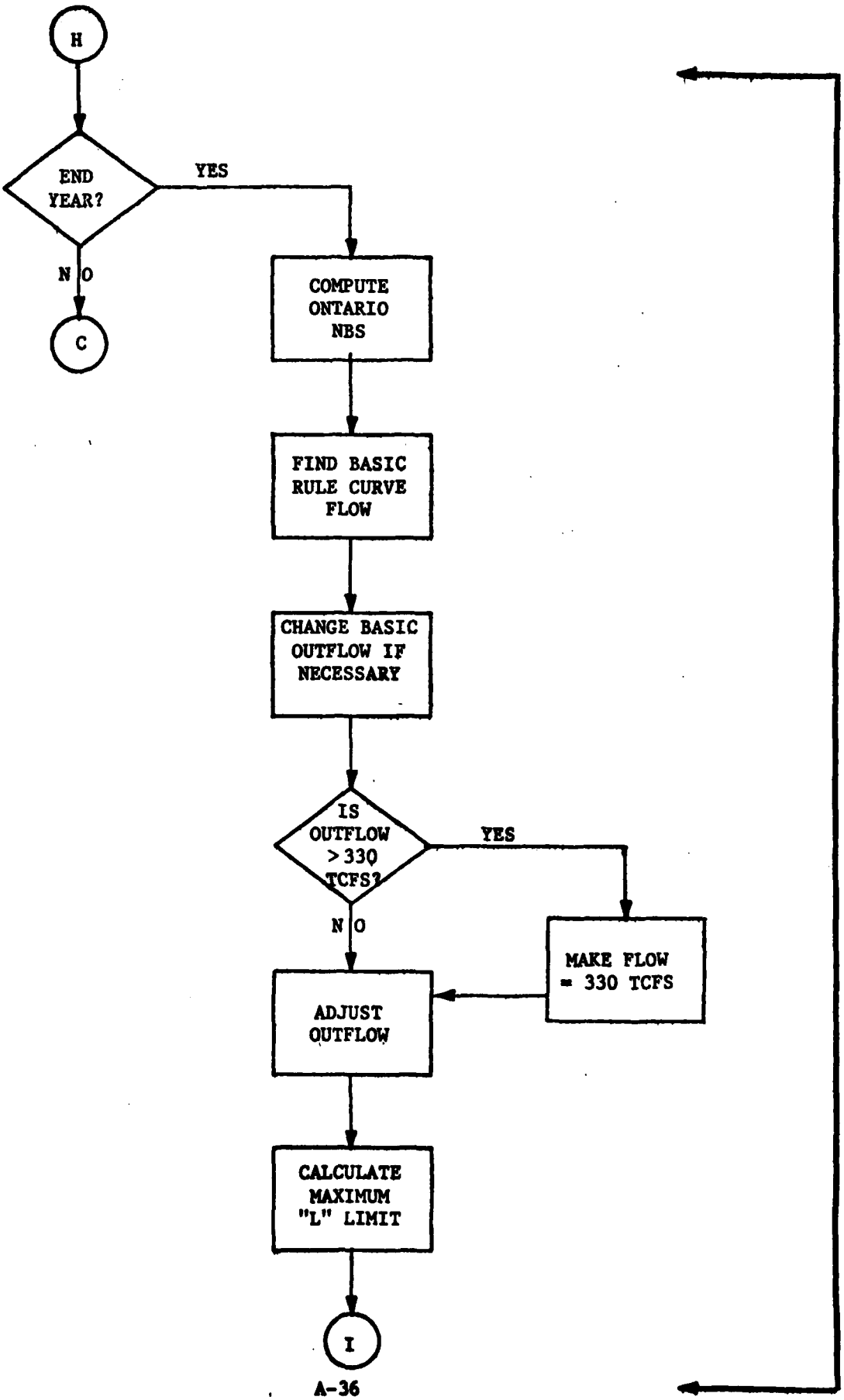
FLOW CHART

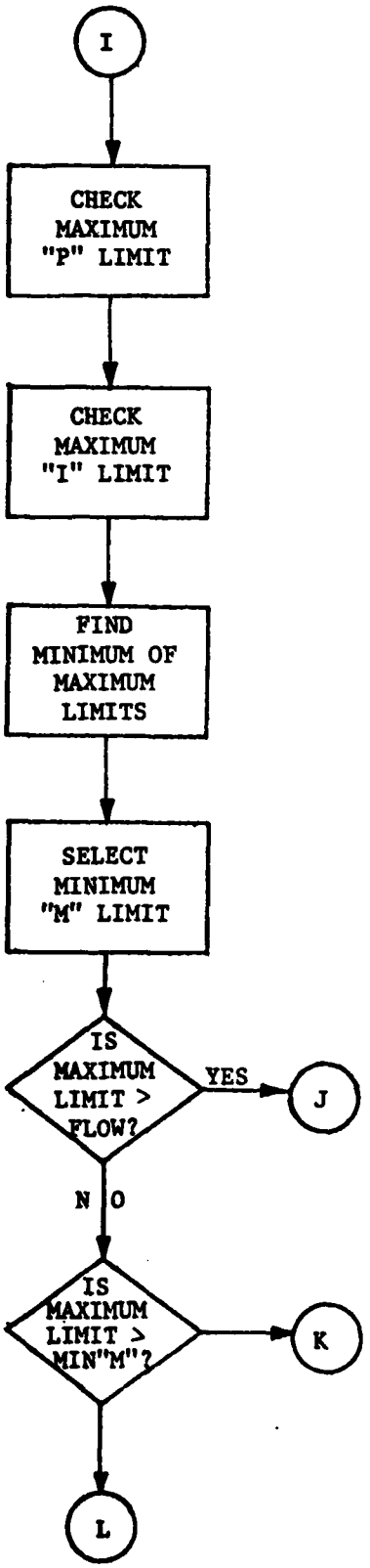



B
BEGIN MONTH CALCULATIONS
C
WINTER?
YES
D
NO
DO FORECAST FOR GATE SETTING
E
IS B-O-M SUP >601.3?
YES
NO
USE 50% SUPPLIES ON SUPERIOR & MICH-HURON
USE 5% SUPPLIES ON SUPERIOR & MICH-HURON
ROUTE SUPPLIES FOR ONE MONTH BY SO-901
F
PART OF PLAN 1977

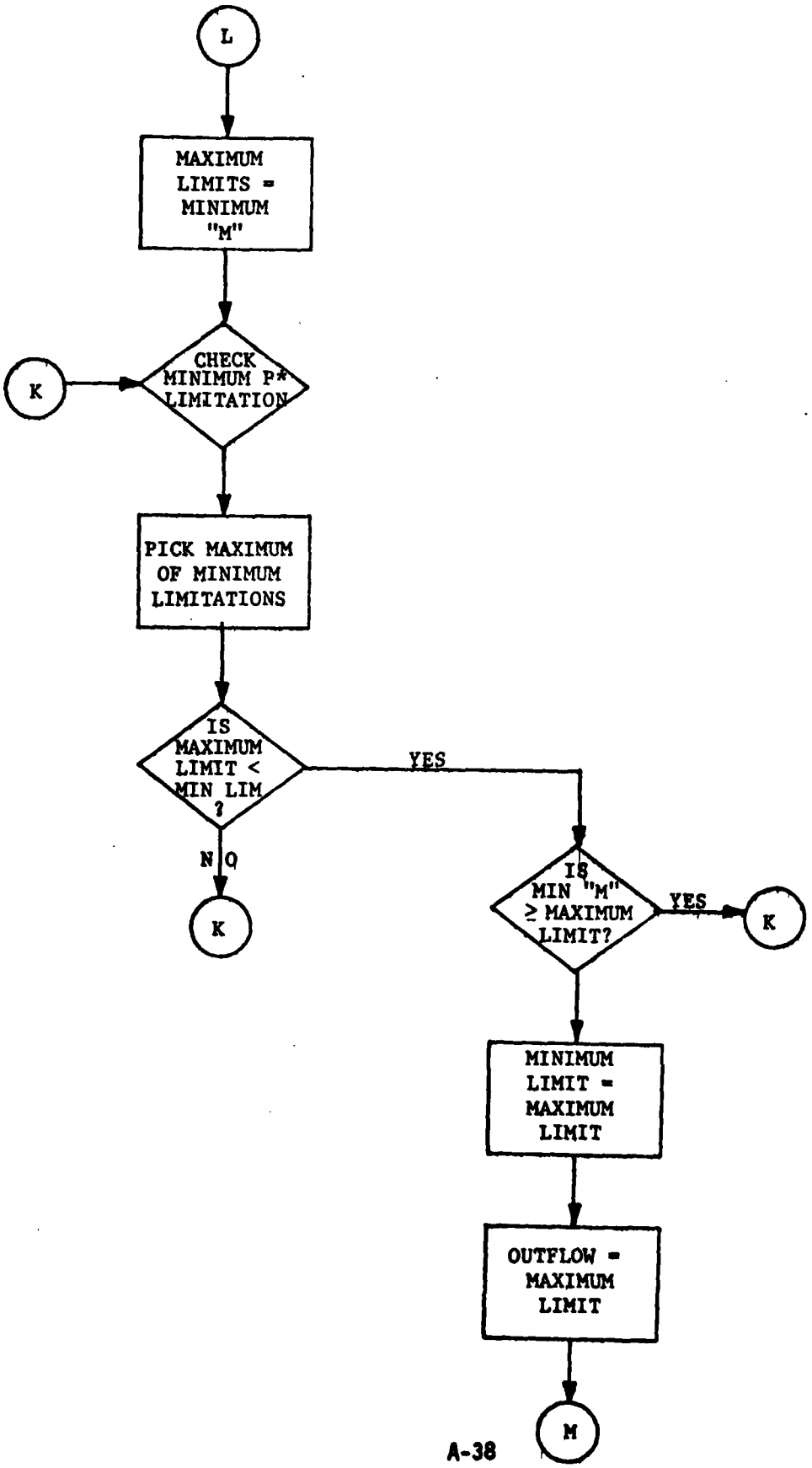

D
DEC OR JAN OF 1ST YEAR?
YES
NO
E
DO FORECAST FOR GATE SETTING
IS B-O-M SUP >601.3?
YES
NO
USE 5% SUPPLIES ON SUPERIOR & MICH-HURON
USE 50% SUPPLIES ON SUPERIOR & MICH-HURON
APR OR DEC OF LAST YEAR?
YES
NO
G

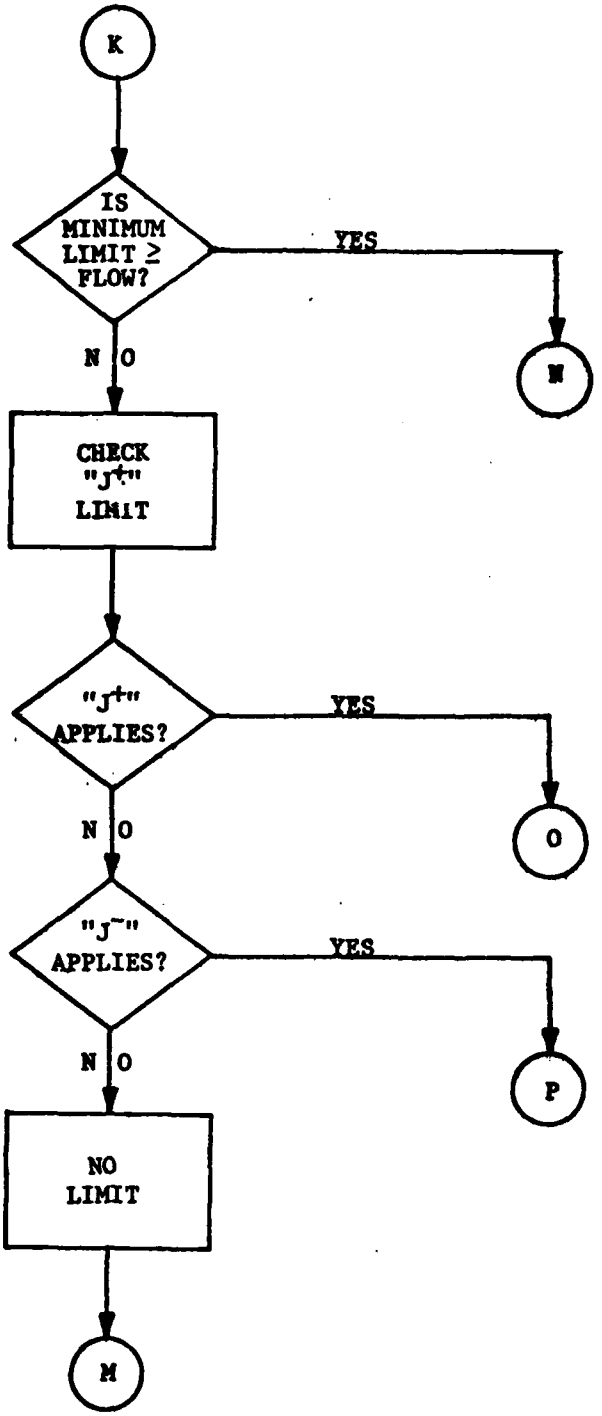

F
IS MONTH NOV?
YES
NO
E
G
CALCULATE AVERAGE GATE SETTING FOR PERIOD
CHANGE LONG LAKE-OGOKI DIVERSION IF NECESSARY
ROUTE L.L.-O. + SUPERIOR NBS + GATE SETTING
CHANGE CHICAGO DIVERSION IF NECESSARY
ROUTE SUPPLY THRU MICH-HUR, ST. CLAIR & ERIE
CHANGE ERIE OUTFLOW IF NECESSARY
H
PART OF PLAN 1977
PART OF MIDDLE LAKE ROUTING


H
END YEAR?
YES
NO
C
COMPUTE ONTARIO NBS
FIND BASIC RULE CURVE FLOW
CHANGE BASIC OUTFLOW IF NECESSARY
IS OUTFLOW > 330 TCFS?
YES
NO
MAKE FLOW = 330 TCFS
ADJUST OUTFLOW
CALCULATE MAXIMUM "L" LIMIT
I
PART OF PLAN 1958D

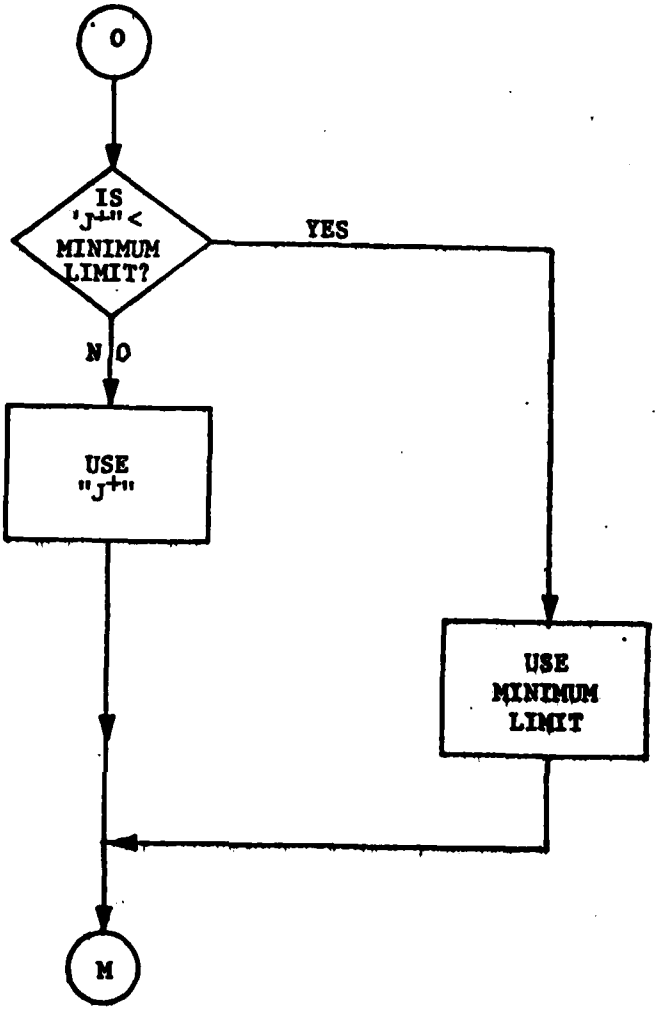


PART OF PLAN 1958D

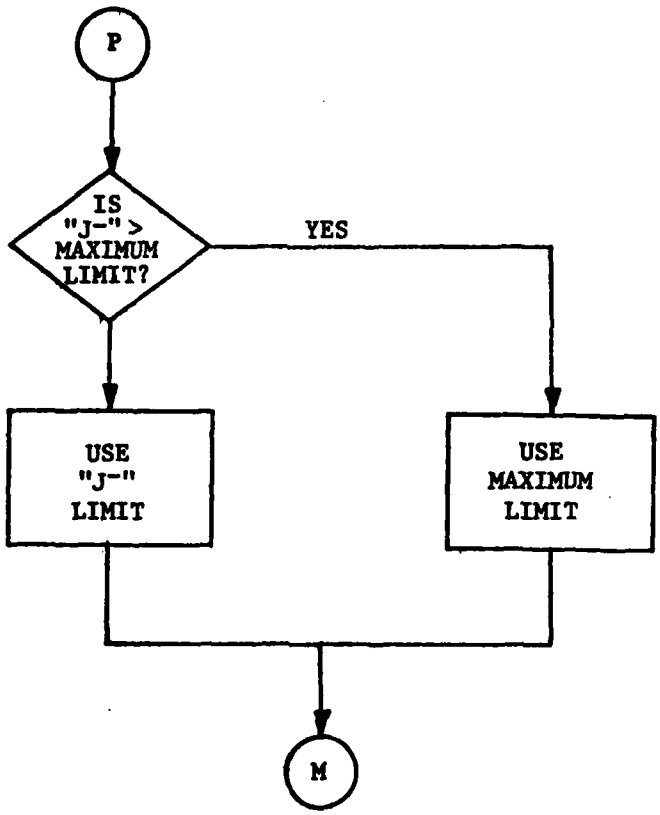

L
MAXIMUM LIMITS = MINIMUM "M"
K
CHECK MINIMUM P* LIMITATION
PICK MAXIMUM OF MINIMUM LIMITATIONS
IS MAXIMUM LIMIT < MIN LIM ?
YES
NO
K
IS MIN "M" ≥ MAXIMUM LIMIT?
YES
K
MINIMUM LIMIT = MAXIMUM LIMIT
OUTFLOW = MAXIMUM LIMIT
M



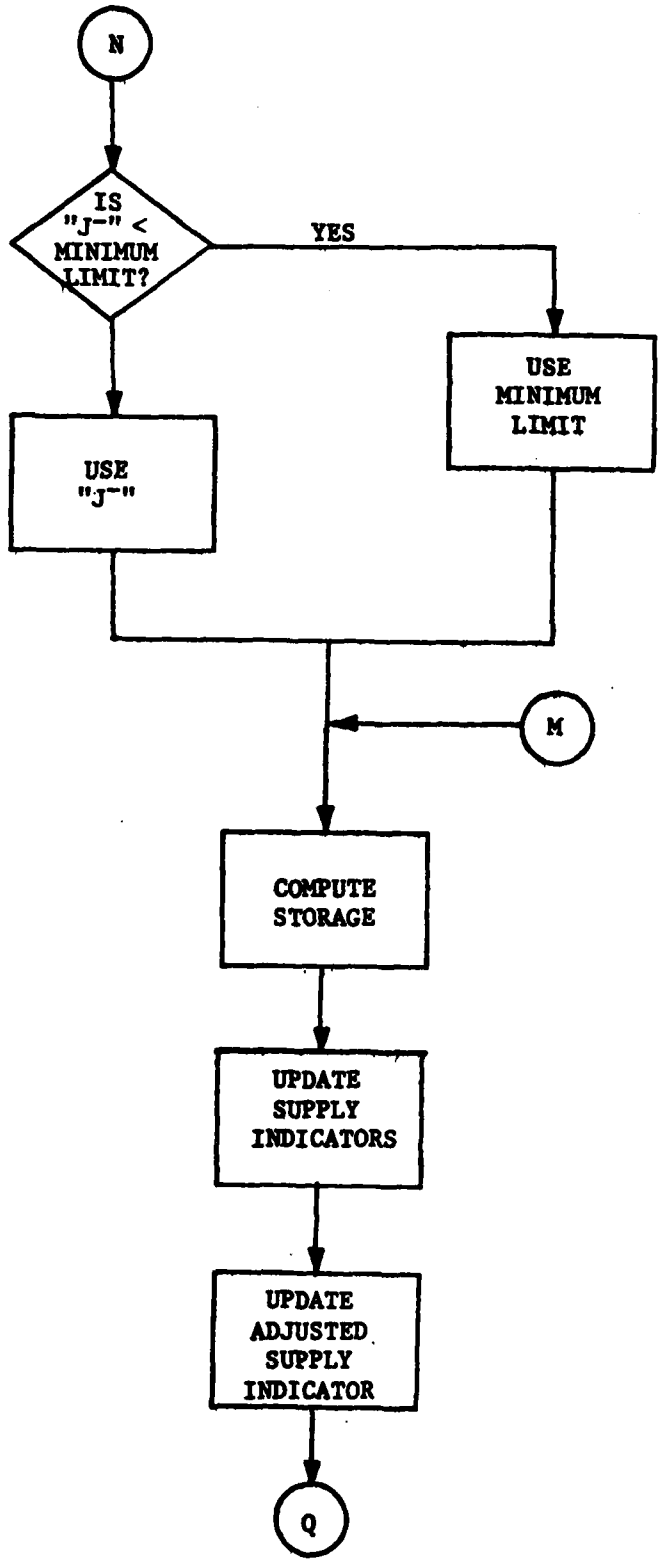
PART OF PLAN 1958D

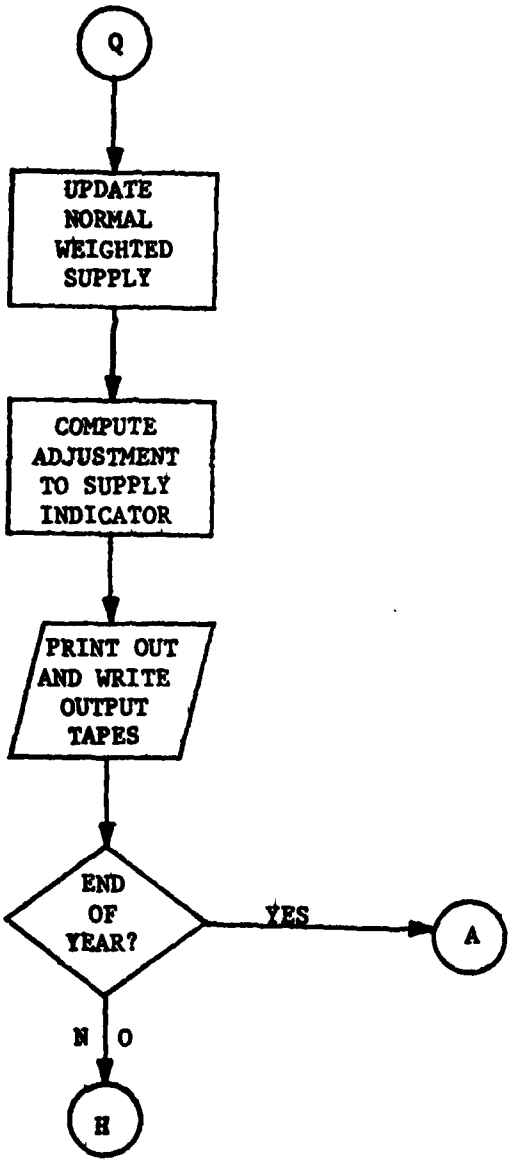


PART OF PLAN 1958D



PART OF PLAN 1958D


N
IS "J-" < MINIMUM LIMIT?
YES
USE MINIMUM LIMIT
USE "J-"
M
COMPUTE STORAGE
UPDATE SUPPLY INDICATORS
UPDATE ADJUSTED SUPPLY INDICATOR
Q



PART OF PLAN 1958D

Annex A

SOURCE PROGRAM

Annex A

SOURCE PROGRAM

	Page
Main Program - P4827	A.A.1
Subroutines:	
ABSICE	A.A.20
QSUP	A.A.22
CANADP	A.A.25
CANADA	A.A.30
R1958D	A.A.32
PRTHCE	A.A.50
PRTONT	A.A.53
ROUND	A.A.56
IABICE	A.A.58
PTITLE	A.A.60
STDMY	A.A.64

```
      PROGRAM P4827 (INPUT,OUTPUT,TAPE60,TAPE61,TAPE66,TAPER0,TAPE81,      P4827.2
     1TAPE82,TAPE83,TAPE84,TAPE85,TAPE86,TAPE87,TAPE88,TAPE89,TAPE90,      P4827.3
     2TAPE91,TAPE92,TAPE93,TAPE94,TAPE95,TAPE96,TAPE97,TAPE98,TAPE99)      P4827.4
C     PLAN 1977 REGULATION PLAN - 4827 - 724F3051                          P4827.5
C     13 AUG 1974                                                          P4827.6
C                                                                          P4827.7
C     INPUT CARDS IN FOLLOWING ORDER                                       P4827.8
C                                                                          P4827.9
C     READ  681 - ONE CARD                                                 P4827.10
C     COL   FMT    VAR   DESCRIPTION                                       P4827.11
C     01-7212F6.0  PSM   SUPERIOR TARGET STAGES                            P4827.12
C                                                                          P4827.13
C     READ  681 - ONE CARD                                                 P4827.14
C     COL   FMT    VAR   DESCRIPTION                                       P4827.15
C     01-7212F6.0  PSSD  SUPERIOR STANDARD DEVIATIONS                      P4827.16
C                                                                          P4827.17
C     READ  681 - ONE CARD                                                 P4827.18
C     COL   FMT    VAR   DESCRIPTION                                       P4827.19
C     01-7212F6.0  PHM   MICHIGAN-HURON TARGET STAGES                      P4827.20
C                                                                          P4827.21
C     READ  681 - ONE CARD                                                 P4827.22
C     COL   FMT    VAR   DESCRIPTION                                       P4827.23
C     01-7212F6.0  PHSD  MICHIGAN-HURON STANDARD DEVIATIONS                P4827.24
C                                                                          P4827.25
C     READ  681 - ONE CARD                                                 P4827.26
C     COL   FMT    VAR   DESCRIPTION                                       P4827.27
C     01-7212F6.0  QR    SUPERIOR TARGET FLOWS                             P4827.28
C                                                                          P4827.29
C     READ  681 - ONE CARD                                                 P4827.30
C     COL   FMT    VAR   DESCRIPTION                                       P4827.31
C     01-7212F6.0  SUPLIM SUPERIOR LOWER FLOW LIMIT                        P4827.32
C                                                                          P4827.33
C     READ  679 - ONE CARD                                                 P4827.34
C     COL   FMT    VAR   DESCRIPTION                                       P4827.35
C     01-05 I5     IBY   BEGINNING YEAR                                    P4827.36
C     06-10 I5     IEY   ENDING YEAR                                       P4827.37
C     11-15 I5     IFD   DEVIATION CODE FOR 1958D - 0 NO DEVIATION         P4827.38
C                                                  1 USE DEVIATION         P4827.39
C     16-20 I5     ICES  1 FOR    ICE RETARDATION IN ST. MARYS RIVER       P4827.40
C                        0 FOR NO ICE RETARDATION IN ST. MARYS RIVER       P4827.41
C     21-25 I5     ICESC 1 FOR    ICE RETARDATION IN ST. CLAIR RIVER       P4827.42
C                        0 FOR NO ICE RETARDATION IN ST. CLAIR RIVER       P4827.43
C     26-30 I5     ICED  1 FOR    ICE RETARDATION IN DETROIT RIVER         P4827.44
C                        0 FOR NO ICE RETARDATION IN DETROIT RIVER         P4827.45
C     31-35 I5     ICEN  1 FOR    ICE RETARDATION IN NIAGARA RIVER         P4827.46
C                        0 FOR NO ICE RETARDATION IN NIAGARA RIVER         P4827.47
C     36-40 I5     IFSG  10000 FOR SINGLE GATE SETTING IN WINTER           P4827.48
C                        MMNN FOR SINGLE GATE SETTING IN WINTER AND        P4827.49
C                        A SINGLE GATE SETTING FROM MONTH MM TO NN         P4827.50
C                        0MMNN FOR A SINGLE GATE SETTING FROM MONTH MM     P4827.51
C                        TO NN                                             P4827.52
C                        00000 FOR THE PROGRAM TO CHANGE GATES AS NEEDED   P4827.53
C                                                                          P4827.54
C     READ  681 - ONE CARD                                                 P4827.55
C     COL   FMT    VAR   DESCRIPTION                                       P4827.56
```

```
C     01-06 F6.0   SEOP  SUPERIOR BEGIN STAGE                              P4827.57
C     07-12 F6.0   CHNG  CHANGE FOR SUPERIOR PER MONTH                     P4827.58
C     13-18 F6.0   AVAR  CONSTANT USUALLY 200.                             P4827.59
C     19-24 F6.0   TEMPSOSUPERIOR PREVIOUS MONTH OUTFLOW                   P4827.60
C                                                                          P4827.61
      READ  681- ONE CARD                                                  P4827.62
      COL   FMT    VAR   DESCRIPTION                                       P4827.63
C     01-7212F6.0  EICE   NIAGARA RIVER ICE + NEEDS CONSTANT FOR           P4827.64
C                         PERIOD OF RECORD                                 P4827.65
C                                                                          P4827.66
      READ 679 - ONE CARD                                                  P4827.67
      COL   FMT    VAR   DESCRIPTION                                       P4827.68
C                                                                          P4827.69
C     01-05 I5     LLO    AMOUNT SUBTRACTED FROM LONG LAKE OGOKI          P4827.70
C                         DIVERSION                                        P4827.71
C     06-10 I5     LNM   1 FOR MICH-HURON NBS BEING USED IN NBM3          COMFIX.1
C                        0 FOR MICH-HURON NBS NOT BEING USED IN NBM3       COMFIX.2
C     11-15 I5     LNS   1 FOR SUPERIOR NBS BEING USED IN NBM3            COMFIX.3
C                        0 FOR SUPERIOR NBS NOT BEING USED IN NBM3         COMFIX.4
C     16-20 I5     NBM3  RUNNING SUM OF 12 MONTH NBS OF SUPERIOR          COMFIX.5
C                         AND OR MICH-HURON WHICH MUST BE EQUALLED OR      COMFIX.6
C                         EXCEEDED TO FLOW LESS WATER FROM LONG LAC OGOKI COMFIX.7
      READ 801 - 1 CARD                                                    P4827.75
      COL   FMT    VAR   DESCRIPTION                                       P4827.76
C     01-10 F10.0  EOPMM MICHIGAN-HURON BEGINNING OF MONTH LEVEL           P4827.77
C     11-20 F10.0  EOPSC SAINT CLAIR BEGINNING OF MONTH LEVEL              P4827.78
C     21-30 F10.0  EOPE  ERIE BEGINNING OF MONTH LEVEL                     P4827.79
C     31-40 F10.0  COP   BASIC CHICAGO DIVERSION FOR PLAN                  P4827.80
C                                                                          P4827.81
      READ  679 - ONE CARD                                                 P4827.82
      COL   FMT    VAR   DESCRPITION                                       P4827.83
C     01-60  12I5  NBSS2  SUPERIOR PREVIOUS YEARS NBS                      P4827.84
C                                                                          P4827.85
      READ  679 - ONE CARD                                                 P4827.86
      COL   FMT    VAR   DESCRPITION                                       P4827.87
C     01-60  12I5  NBMM  MICH-HURON PREVIOUS YEARS NBS                     P4827.88
C                                                                          P4827.89
      READ  679 - ONE CARD                                                 P4827.90
      COL   FMT    VAR   DESCRPITION                                       P4827.91
C     01-60  12I5   NBR  ERIE PREVIOUS YEARS NBS                           P4827.92
      READ 679 - ONE CARD                                                  P4827.93
      COL   FMT    VAR   DESCRIPTION                                       P4827.94
C     01-05 I5     INM2   1  IF MICH-HURON NBS ARE USED IN NBM2            P4827.95
C                         0  IF MICH-HURON NBS ARE NOT  IN NBM2            P4827.96
C     06-10 I5     INS2  1 IF SUPERIOR NBS ARE USED IN NBM2               P4827.97
C                        0 IF SUPERIOR NBS ARE NOT  IN NBM2                P4827.98
C     11-15    I5   NBM2 RUNNING SUM OF 12 MONTH NBS OF SUPERIOR          P4827.99
C                         AND OR MICH-HURON WHICH MUST BE EQUALLED OR      P4827.100
C                         EXCEEDED TO FLOW ADDITIONAL WATER FROM CHICAGO   P4827.101
C     16-20    I5   NBE3 RUNNING SUM OF 12 MONTH NBS OF ERIE              P4827.102
C                         WHICH MUST BE EQUALLED                           P4827.103
C                         EXCEEDED TO FLOW ADDITIONAL WATER FROM CHICAGO   P4827.104
C     21-25 I5     K1    FIRST MONTH OF ACCOUNTING YEAR FOR CHICAGO       P4827.105
C                                                                          P4827.106
C                                                                          P4827.107
```

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C     READ 681 - ONE CARD                                                    P4827.108
C     COL    FMT     VAR    DESCRIPTION                                      P4827.109
C     01-7212F6.0    CD     AMOUNT TO BE ADDED TO CHICAGO DIVERSION          P4827.110
C                           IN TCFS BY MONTH.                                P4827.111
C                                                                            P4827.112
C     READ 681 - ONE CARD                                                    P4827.113
C     COL    FMT     VAR    DESCRIPTION                                      P4827.114
C     01-7212F6.0 TBOMS CHICAGO DIVERSION TARGET STAGES                      P4827.115
C                                                                            P4827.116
C     READ 681 - ONE CARD                                                    P4827.117
C     COL    FMT     VAR    DESCRIPTION                                      P4827.118
C     01-06  F6.0 TMMS  LONG TERM AVERAGE MICHIGAN-HURON LEVEL USED          P4827.119
C                       TO DETERMINE IF THE ADDITION TO THE CHICAGO         P4827.120
C                       DIVERSION IS TO BE USED THAT YEAR, NO IF THE        P4827.121
C                       PREVIOUS YEARS AVERAGE LEVEL IS BELOW IT,           P4827.122
C                       OTHERWISE YES.                                      P4827.123
C                                                                           P4827.124
C     READ 681 - ONE CARD                                                   P4827.125
C     COL    FMT     VAR    DESCRIPTION                                     P4827.126
C     01-7212F6.0 PMMS  MICHIGAN-HURONS PREVIOUS YEARS MONTHLY MEAN         P4827.127
C                       LEVELS.                                             P4827.128
C                                                                           P4827.129
C     READ  679 - ONE CARD                                                  P4827.130
C     COL    FMT     VAR    DESCRIPTION                                     P4827.131
C     01-05 I5      NBM    NUMBER WHICH RUNNING 12 MONTH SUM OF SUPERIOR   P4827.132
C                          AND/OR MICHIGAN-HURON NBS MUST EQUAL OR EXCEED  P4827.133
C                          IN ORDER TO FLOW ADDITIONAL WATER FROM ERIF      P4827.134
C     06-10 I5      NBE2   NUMBER WHICH RUNNING 12 MONTH SUM OF ERIE       P4827.135
C                          AND/OR MICHIGAN-HURON NBS MUST EQUAL OR EXCEED  P4827.136
C                          IN ORDER TO FLOW ADDITIONAL WATER FROM ERIE      P4827.137
C     11-15 I5      INM    1 FOR MICH-HURON NBS BEING USED IN NBM          P4827.138
C                          0 FOR MICH-HURON NBS NOT BEING USED IN NBM       P4827.139
C     16-20 I5      INS    1 FOR SUPERIOR NBS BEING USED IN NBM            P4827.140
C                          0 FOR SUPERIOR NBS NOT BEING USED IN NBM         P4827.141
C     21-25 I5      NBME   NUMBER WHICH RUNNING 12 MONTH SUM OF SUPERIOR   P4827.142
C                          AND/OR MICHIGAN-HURON NBS MUST BE LESS THAN      P4827.143
C                          IN ORDER TO REDUCE THE ERIE OUTFLOW              P4827.144
C     26-30 I5      NBEE   NUMBER WHICH RUNNING 12 MONTH SUM OF ERIE       P4827.145
C                          AND/OR MICHIGAN-HURON NBS MUST BE LESS THAN      P4827.146
C                          IN ORDER TO REDUCE THE ERIE OUTFLOW              P4827.147
C     31-35 I5      INME   1 FOR MICH-HURON NBS BEING USED IN NBME          P4827.148
C                          0 FOR MICH-HURON NBS NOT BEING USED IN NBME      P4827.149
C     36-40 I5      INSE   1 FOR SUPERIOR NBS BEING USED IN NBME           P4827.150
C                          0 FOR SUPERIOR NBS NOT BEING USED IN NBME        P4827.151
C                                                                           P4827.152
C     READ  681- ONE CARD                                                   P4827.153
C     COL    FMT     VAR    DESCRIPTION                                     P4827.154
C     01-7212F6.0   IDD     AMOUNT ERIE OUT FLOW IS TO BE INCREASED TCFS    P4827.155
C                                                                           P4827.156
C     READ  681- ONE CARD                                                   P4827.157
C     COL    FMT     VAR    DESCRIPTION                                     P4827.158
C     01-7212F6.0   SID     AMOUNT ERIE OUT FLOW IS TO BE DECREASED TCFS    P4827.159
C                                                                           P4827.160
C     DISC 66 INPUT BASIC DATA FILE                                         P4827.161
C     12 MCFS             MONTHLY NBS SUPERIOR                              P4827.162
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C     12 MCFS            MONTHLY ICE SUPERIOR                                  P4827.163
C     12 MCFS            MONTHLY NBS MICH-HURON                                P4827.164
C     12 MCFS            MONTHLY ICE MICH-HURON                                P4827.165
C     12 MCFS            MONTHLY NBS ST CLAIR                                  P4827.166
C     12 MCFS            MONTHLY ICE ST CLAIR                                  P4827.167
C     48 MCFS            QUARTER MONTHLY NBS ERIE                              P4827.168
C     48 MCFS            QUARTER MONTHLY NBS ONTARIO                           P4827.169
C     48 TCFS            QUARTER MONTHLY DIFFERENCES IN FLOWS BETWEEN          P4827.170
C     LAKES SAINT LOUIS AND ONTARIO                                            P4827.171
C     48 TCFS            QUARTER MONTHLY DEVIATIONS FROM PLAN 1958-D            P4827.172
C                                                                              P4827.173
C     FILES                                                                    P4827.174
C                                                                              COMFIX.8
C                                      INPUT                                   COMFIX.9
C                                                                              COMFIX.10
C     66 BASIC DATA                                                            COMFIX.11
C                                                                              COMFIX.12
C                                     OUTPUT                                   COMFIX.13
C                                                                              COMFIX.14
C     80 U.S. SLIP MONTHLY MEAN STAGES                                         P4827.178
C     81 SUP MONTHLY MEAN STAGES                                               P4827.179
C     82 SUP MONTHLY MEAN OUTFLOWS                                             P4827.180
C     83 M-H MONTHLY MEAN STAGES                                               P4827.181
C     84 M-H MONTHLY MEAN OUTFLOWS                                             P4827.182
C     85 ERE MONTHLY MEAN STAGES                                               P4827.183
C     86 ERE MONTHLY MEAN OUTFLOWS                                             P4827.184
C     87 ONT MONTHLY MEAN STAGES                                               P4827.185
C     88 ONT MONTHLY MEAN OUTFLOWS                                             P4827.186
C     90 STL QUARTER MONTH MEAN STAGES                                         P4827.187
C     91 STC BEGIN OF MON STAGES   MON MEAN STAGES   MON MEAN OUTFLOWS         P4827.188
C     92 SUP M-H ERE ONT BEGIN OF MON STAGES                                   P4827.189
C     93 SUP M-H ERE ONT MON MEAN STAGES AND MON MEAN OUTFLOWS                 P4827.190
C     94 ERE QUARTER MONTH FLOWS                                               P4827.191
C     95 ONT QUARTER MONTH MEAN FLOWS                                          P4827.192
C     96 STL QUARTER MONTH MEAN FLOWS                                          P4827.193
C     97 ONT BEGINNING OF QUARTER STAGES                                       P4827.194
C     98 ONT QUARTER MONTH MEAN STAGES                                         P4827.195
C     99 GATE SETTING                                                          P4827.196
C                                                                              COMFIX.15
C                                     SCRATCH                                  COMFIX.16
C                                                                              COMFIX.17
C     60 LAKES M-H ST CLAIR AND ERIE PRINT INFORMATION                         COMFIX.18
C     61 LAKE ONTARIO PRINT INFORMATION                                        COMFIX.19
C                                                                              P4827.197
C     SUBROUTINES ARSICE QSUP CANADP PRTMCE R1958D PRTONT PTITLE ROUND         P4827.198
C     SUBROUTINES STOMY IARICE QSUPA CANADA                                    COMFIX.20
C     FUNCTIONS ABS                                                            P4827.200
C                                                                              P4827.201
C                                                                              P4827.202
      DIMENSION ICE(12,4),PHM(12),PHSD(12),PSM(12),PSSD(12)                    P4827.203
      DIMENSION QR(12),QS(12), SUPLIM(12),PICE(12)                             P4827.204
      DIMENSION HQMSC(12),STSC(12)                                             P4827.205
      DIMENSION QSC(12),  ISYM(2)                                              P4827.206
      DIMENSION NRSSP(12),NRMM(12),NNR(12),HSS(12),IGATE(12)                   P4827.207
C                                                                              P4827.208
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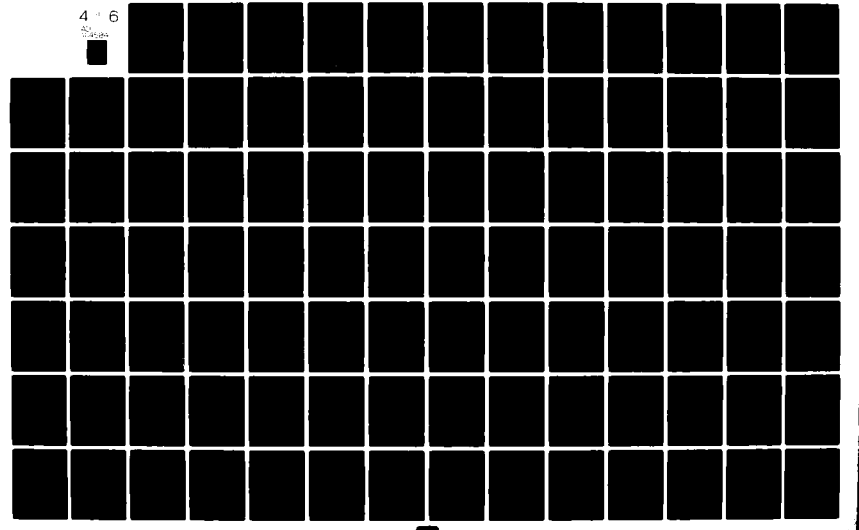
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      COMMON STS(12),SO(12),STMM(12),OM(12),STE(12),OE(12),STO(12)          P4827.209
      COMMON OO(12),ROMS(12),ROMM(12),ROME(12),ROMO(12),IEFL=(48)           EFIX.1
      COMMON IFO, IAV, IEV, IV                                              P4827.211
      COMMON NASEQ(48),AVEMM,AVESC,AVEE                                     P4827.212
      COMMON NAS(12,3)                                                      P4827.213
      COMMON ADD(12),SUB(12)                                                P4827.214
      COMMON N12MM,INM,N12S,INS,NBM,N12E,NBE2,NBE1,NBME,NBEE,INME,INSE      P4827.215
      COMMON INM2,INS2,NBM2,NBE3,CD(12),TBOMS(12),TMMS,PMMS(12),CDP,K1      P4827.216
      COMMON IJK                                                            P4827.217
C                                                                           P4827.218
C     NAM    MUST BE DIMENSIONED 27                                         P4827.219
C     ITITLE MUST BE DIMENSIONED 27 * MAXNCD                                P4827.220
      DIMENSION NAM(27), ITITLE(270)                                        P4827.221
      DIMENSION NBSS(12,80),NBSM(12,80),NBSSC(12,80),NBSE(48,80)            P4827.222
      DIMENSION ICEM(12,80),ICEC(12,80)                                     P4827.223
      DIMENSION NS5(12),NS50(12),NM5(12),NM50(12)                           P4827.224
      DIMENSION PMMS1(12)                                                   P4827.225
      DATA NS5/240,420,1175,2400,2835,2450,1925,1700,1610,1140,840,210/     P4827.226
      DATA NM5/1470,1500,3045,4800,3750,3010,2250,1470,1400,980,1380,135    P4827.227
     10/                                                                    P4827.228
      DATA NS50/-120,80,375,1440,1890,1350,1250,975,700,360,120,-225/       P4827.229
      DATA NM50/510,870,1785,2800,2500,2030,1260,490,240,-55,300,240/       P4827.230
C                                                                           P4827.231
      DATA ISYM/6HN/A ,4HI/2 /                                              P4827.232
      DATA IBK/4H    /                                                      P4827.233
      DATA NAM   /3H - ,3HPLA,3HN 1,3H977,3H RE,3HGUL,3HATI,3HON ,3HPLA,    P4827.234
     13HN -,3H 48,3H27 ,3H- 7,3H28F,3H305,3HI  ,3H   ,3H   ,3H   ,3H   ,    P4827.235
     23H   ,3H   ,3H   ,3H   ,3H   ,3H   ,3H   /                           P4827.236
C                                                                           P4827.237
      XONEF(I,J,K,L)=MINO(MAXO((I-J)**2,0)+MAXO((K-L)**2,0),1)              P4827.238
C     INITILIZE                                                             P4827.239
C     *********                                                             P4827.240
C     MAXIMUM NUMBER OF TITLE CARDS.                                        P4827.241
      MAXNCD = 10                                                           P4827.242
      USSL=SA2.15                                                           P4827.243
C                                                                           P4827.244
C                                                                           P4827.245
C                                                                           P4827.246
C     CALL DATE TIME SUBROUTINE                                             P4827.247
C     *************************                                             P4827.248
      CALL PTITLE ( 1, NAM, MAXNCD, ITITLE, NMC, III )                      P4827.249
C                                                                           P4827.250
C     READING IN FROM 1 TO MAXNCD HEADER CARDS                              P4827.251
C     A BLANK CARD INDICATES END OF CARD GROUP                              P4827.252
C     ****************************************                              P4827.253
      CALL PTITLE ( 2, NAM, MAXNCD, ITITLE, NMC, III )                      P4827.254
C                                                                           P4827.255
C                                                                           P4827.256
C     SUPERIOR TARGET STAGES                                                P4827.257
C     **********************                                                P4827.258
      READ     6R1,PSM                                                      P4827.259
C                                                                           P4827.260
C     SUPERIOR STANDARD DEVIATIONS                                          P4827.261
C     ****************************                                          P4827.262
      READ     6R1,PSSD                                                     P4827.263
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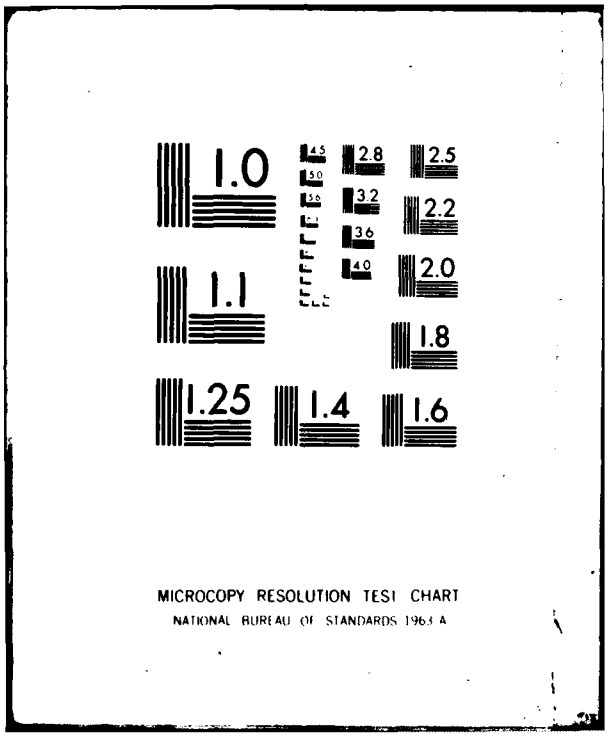
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                C                                                               P4827.284
                C     MICHIGAN-HURON TARGET STAGES                              P4827.285
                C     ----------------------------                              P4827.286
                      READ      681,PHM                                         P4827.287
      280       C                                                               P4827.288
                C     MICHIGAN-HURON STANDARD DEVATIONS                         P4827.289
                C     ---------------------------------                         P4827.290
                      READ      681,PHSD                                        P4827.291
                C                                                               P4827.292
      285       C     SUPERIOR MEAN FLOWS                                       P4827.293
                C     -------------------                                       P4827.294
                      READ      681,QR                                          P4827.295
                C                                                               P4827.296
                C     SUPERIOR LOWER LIMIT FLOWS                                P4827.297
      290       C     --------------------------                                P4827.298
                      READ      681,SUPLIM                                      P4827.299
                C                                                               P4827.300
                C                                                               P4827.301
                C     PARAMETERS                                                P4827.302
      295       C     ----------                                                P4827.303
                      READ 679,IBV,IEV,IFQ,ICES,ICESC,ICED,ICEN,IESG            P4827.304
                      IF(IBV)1,1,3                                              P4827.305
                1     STOP  1                                                   P4827.306
                C                                                               P4827.307
      300       C     INITIAL VALUES                                            P4827.308
                C     --------------                                            P4827.309
                3     READ 681,SEOP,CHNG,AVAR,TEMPSQ                            P4827.310
                C                                                               P4827.311
                C     NIAGARA RIVER ICE AND WEED CONSTANT FOR PERIOD OF RECORD   P4827.312
      305       C     -------------------------------------------------------   P4827.313
                      READ      681,EICE                                        P4827.314
                      CALL ABSICE(EICE)                                         P4827.315
                C                                                               P4827.316
                C     READ LONG LAKE OGOKI PARAMETERS                           P4827.317
      310       C     -------------------------------                           P4827.318
                      READ 679,LLO,LNM,LMS,NBH3                                 FFIX.1
                C                                                               P4827.320
                C     READ MIDDLE LAKES DATA                                    P4827.321
                C     ----------------------                                    P4827.322
      315       C     READ 801,HEOP,CEOP,EENP,COP                               P4827.323
                C                                                               P4827.324
                C                                                               P4827.325
                C     SUPERIOR PERVIOUS YEARS NBS                               P4827.326
                C     ---------------------------                               P4827.327
      320       C     READ      679, NBSS2                                      P4827.328
                C                                                               P4827.329
                C     MICH-HURON PERVIOUS YEARS NBS                             P4827.330
                C     -----------------------------                             P4827.331
                      READ      679, NBHH                                       P4827.332
      325       C                                                               P4827.333
                      N12MM=80                                                  FFIX.2
                      N12S=0                                                    FFIX.3
                C     ----------------------                                    P4827.335
                      READ      679, NBR                                        P4827.336
      330       C                                                               P4827.337
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      C     CHICAGO DIVERSION PARAMETERS                                    PWR27.318
      C     ----------------------------                                    PWR27.319
            READ 679,INM2,INS2,NBM2,NBE3,K1                                 PWR27.320
            READ    681,CD                                                  PWR27.321
      C                                                                     PWR27.322
      C     CHICAGO DIVERSION TARGET STAGES                                 PWR27.323
      C     ------------------------------                                  PWR27.324
            READ    681,TRDMS                                               PWR27.325
            READ    681,TMMS                                                PWR27.326
            READ    681,PMMS                                                PWR27.327
      C                                                                     PWR27.328
      C     READ NIAGARA PARAMETERS                                         PWR27.329
      C     -----------------------                                         PWR27.330
            READ 679,NBM,NBE2,INM,INS,NBME,NBEE,INME,INSE                   PWR27.331
      C                                                                     PWR27.332
      C     ADD TO ERIE OUTFLOWS                                            PWR27.333
      C     --------------------                                            PWR27.334
            READ    681, ADD                                                PWR27.335
      C                                                                     PWR27.336
      C     SUB FROM ERIE OUTFLOWS                                          PWR27.337
      C     ----------------------                                          PWR27.338
            READ    681, SUB                                                PWR27.339
      C                                                                     PWR27.340
      C                                                                     PWR27.341
      C                                                                     PWR27.342
      C     PRINT INPUT DATA                                                PWR27.343
      C     ----------------                                                PWR27.344
            CALL PTITLE ( 3, NAM, MAXNCD, ITITLE, NNC, III )                PWR27.345
            PRINT   2001, PSM                                               PWR27.346
            PRINT   2002, PSSD                                              PWR27.347
            PRINT   2003, PMM                                               PWR27.348
            PRINT   2004, PMSD                                              PWR27.349
            PRINT   2005, QB                                                PWR27.350
            PRINT   2006, SUPLIM                                            PWR27.351
            PRINT 2007,IRV,IEV,IFO,ICES,ICESC,ICFD,ICEN,IFSG                PWR27.352
            PRINT 2008,SEOP,CHNG,AVAR,TEMPSO                                PWR27.353
            PRINT   2009,FICE                                               PWR27.354
            PRINT 2016,LLO,LNM,LMS,NBM3                                     FTN.4
            PRINT 911,MEOP,CEOP,FEOP,COP                                    PWR27.356
            PRINT   2011, NBSS2                                             PWR27.357
            PRINT   2012, NBMM                                              PWR27.358
            PRINT   2013, NBR                                               PWR27.359
            PRINT 2021,INM2,INS2,NBM2,NBE3,K1                               PWR27.360
            PRINT   2018,CD                                                 PWR27.361
            PRINT   2017,TRDMS                                              PWR27.362
            PRINT   2019,TMMS                                               PWR27.363
            PRINT 2022,PMMS                                                 PWR27.364
            PRINT 2007,NBM,NBE2,INM,INS,NBME,NBEE,INME,INSE                 PWR27.365
            PRINT   2014, ADD                                               PWR27.366
            PRINT   2015, SUB                                               PWR27.367
      C                                                                     PWR27.368
      C     INITIALIZE ONTARIO                                              PWR27.369
      C     ------------------                                              PWR27.370
            CALL M19580                                                     PWR27.371
      C                                                                     PWR27.372
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AD-A114 584 INTERNATIONAL LAKE ERIE REGULATION STUDY BOARD F/G 8/8
LAKE ERIE WATER LEVEL STUDY. APPENDIX A. REGULATION. VOLUME 2. --ETC(U)
JUL 81

UNCLASSIFIED NL




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5.0
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

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                N12S=0                                                          P4827.373
                N12MM=0                                                         P4827.374
                N12E=0                                                          P4827.375
                SUM=0.0                                                         P4827.376
      390       IJK=1                                                           P4827.377
              C                                                                 P4827.378
                DO 200 I=1,12                                                   P4827.379
                SUM=SUM+PMMS(I)                                                 OFIX.1
                EICE(I)=EICE(I)*ICEN                                            P4827.381
      395       N12S=N12S+NBSS2(I)                                              P4827.382
                N12MM=N12MM+NBMM(I)                                             P4827.383
                N12E=N12E+NBR(I)                                                P4827.384
            200 CONTINUE                                                        P4827.385
                SUM=SUM/12.                                                     P4827.386
      400       IF(SUM.GT.TMMS)IJK=1                                            P4827.387
                CALL PTITLE ( 3, NAM, MAXNCD, ITITLE, NMC, III )                P4827.388
                CALL R1958D                                                     P4827.390
                IFMSG=IFSG/10000                                                P4827.391
                MM=(IFSG-IFMSG*10000)/100                                       P4827.392
      405       NN=IFSG-IFMSG*10000-MM*100                                      P4827.393
                IF(NN.LE.MM.OR.MM.LE.4.OR.MM.GE.12.OR.NN.LE.4.OR.NN.GE.12)GO TO 42P4827.394
                GO TO 41                                                        P4827.395
             42 MM=0                                                            P4827.396
                NN=0                                                            P4827.397
      410       PRINT 2050                                                      P4827.398
             41 IF(IFMSG.EQ.0.AND.MM.EQ.0)GO TO 51                              P4827.399
                DO 21 IZ=IBY,IEY                                                P4827.400
                IY=IZ-IBY+1                                                     P4827.401
                READ (66,1000)IYEAR,(NBSS(J,IY),J=1,12)                         P4827.402
      415       READ (66,1000)IYEAR                                             P4827.403
                READ (66,1000)IYEAR,(NBSM(J,IY),J=1,12)                         P4827.404
                READ (66,1000)IYEAR,(ICEM(J,IY),J=1,12)                         P4827.405
                READ (66,1000)IYEAR,(NBSSC(J,IY),J=1,12)                        P4827.406
                READ (66,1000)IYEAR,(ICEC(J,IY),J=1,12)                         P4827.407
      420       READ (66,1001)IYEAR,(NBSE(J,IY),J=1,48)                         P4827.408
              C                                                                 P4827.409
                DO 22 IJ=1,15                                                   P4827.410
                READ (66,1000)IYEAR                                             P4827.411
             22 CONTINUE                                                        P4827.412
      425     C                                                                 P4827.413
             21 CONTINUE                                                        P4827.414
                REWIND 66                                                       P4827.415
              C                                                                 P4827.416
              C     YEAR LOOP                                                   P4827.417
      430     C     ---------                                                   P4827.418
             51 DO 19 IYC=IBY,IEY                                               P4827.419
                IY=IYC                                                          P4827.420
              C                                                                 P4827.421
              C     SUPERIOR NBS IN HCFS                                        P4827.422
      435     C     --------------------                                        P4827.423
                READ  (66,1000) IYEAR, (NBS(J,1),J=1,12)                        P4827.424
                IF( IY.NE.IYEAR ) GO TO 20                                      P4827.425
              C                                                                 P4827.426
              C     SUPERIOR ICE IN HCFS                                        P4827.427
      440     C     --------------------                                        P4827.428
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      READ  (66,1000) IYEAR, (ICE(J,1),J=1,12)                          P4827.429
      CALL IABICE(ICE(1,1))                                             P4827.430
C                                                                       P4827.431
C     MICH-HURON NBS IN HCFS                                            P4827.432
C     ----------------------                                            P4827.433
      READ  (66,1000) IYEAR, (NBS(J,2),J=1,12)                          P4827.434
C                                                                       P4827.435
C     MICH-HURON ICE RETARDATION IN HCFS                                P4827.436
C     ----------------------------------                                P4827.437
      READ  (66,1000) IYEAR, (ICE(J,2),J=1,12)                          P4827.438
      CALL IABICE(ICE(1,2))                                             P4827.439
C                                                                       P4827.440
C     ST CLAIR NBS IN HCFS                                              P4827.441
C     --------------------                                              P4827.442
      READ  (66,1000) IYEAR, (NBS(J,3),J=1,12)                          P4827.443
C                                                                       P4827.444
C     ST CLAIR ICE RETARDATION IN HCFS                                  P4827.445
C     --------------------------------                                  P4827.446
      READ  (66,1000) IYEAR, (ICE(J,3),J=1,12)                          P4827.447
      CALL IABICE(ICE(1,3))                                             P4827.448
C                                                                       P4827.449
C     ERIE NBS IN HCFS                                                  P4827.450
C     ----------------                                                  P4827.451
      READ  (66,1001) IYEAR, ( NBSEQ(J), J=1,48 )                       P4827.452
C                                                                       P4827.453
C     ERIE ICE RETARDATION IN HCFS                                      P4827.454
C     ----------------------------                                      P4827.455
      READ  (66,1000) IYEAR, (ICE(J,4),J=1,12)                          P4827.456
      CALL IABICE(ICE(1,4))                                             P4827.457
      IYA = IY - IBY                                                    P4827.458
      IF( IYA-4*(IYA/4) ) 33,32,33                                      P4827.459
C                                                                       P4827.460
C     PRINT TITLES                                                      P4827.461
C     ------------                                                      P4827.462
   32 CALL PTITLE ( 3, NAM, MAXNCO, ITITLE, NHC, III )                  P4827.463
      PRINT 2000                                                        P4827.464
   33 PRINT     479, IY                                                 P4827.465
C                                                                       P4827.466
C     MONTH LOOP                                                        P4827.467
C     ----------                                                        P4827.468
      DO 1A J=1,12                                                      P4827.469
C     FINDING THE AVERAGE GATE SETTING FOR THE PERIOD                   P4827.470
      IF(IF-SG.GT.0.AND.((IY.NE.IEY.AND.J.EQ.12).OR.(IY.EQ.IBY.AND.J.EQ.P4827.471
     1))) GO TO 2A                                                      P4827.472
      IF(J.LT.MM.OR.J.GT.NN)GO TO 27                                    P4827.473
   2A J1=J                                                              P4827.474
      N12MM=J+N12MM                                                     P4827.475
      N12S=J+N12S                                                       P4827.476
      N12E=J+N12E                                                       P4827.477
      IYR=IY-IBY+1                                                      P4827.478
      NG1=0                                                             P4827.479
      NG=0                                                              P4827.480
      AO=S=J+EOP                                                        P4827.481
      AO=M=J+EOP                                                        P4827.482
      AO=S=J+EOP                                                        P4827.483
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                  BOMSJ=EEOP                                                    PWR27.480
                  TEMPS=TEMPSO                                                  PWR27.485
                  IJ=1=1]J                                                      PWR27.490
                  DO 34 J2=1,12                                                 PWR27.495
      500         PWMS1(J2)=PWMS(J2)                                            PWR27.500
               34 CONTINUE                                                      PWR27.505
               24 OLLOJ=0.0                                                     PWR27.510
                  IF(N12MMJ=LMM+N12SJ=LMS,GE,NRM3)OLLOJ=OLLOJ=LLO+0.1           FFIX.5
                  WRSJ=WSS(J1)                                                  PWR27.495
      505         IF(BOMSJ,GE,601,30)WRSJ=WSS(J1)                               PWR27.498
                  SNTS=WRSJ+0.1+OLLOJ                                           PWR27.505
                  WRS*(J1,IYR)=WMSO(J1)                                         PWR27.508
                  IF(BOMSJ,GE,601,3) WRS*(J1,IYR)=WMS(J1)                       PWR27.507
                  WRS=(BOMMJ-PWM(J1))/PMSO(J1)                                  PWR27.504
      510         SWS=WS                                                        PWR27.499
                  TEMPS=S+PSSO(J1)+PSM(J1)                                      PWR27.500
                  FFOUR=B(J1)+AVAR*(BOMSJ+TEMP)                                 PWR27.501
                  FTHREE=FFOUR                                                  PWR27.502
                  TEMPU=TEMPS + CHNG                                            PWR27.503
      515         TEMPL=TEMPS - CHNG                                            PWR27.504
                  IF(FFOUR-TEMPU)50,40,40                                       PWR27.505
               40 FFOUR=TEMPU                                                   PWR27.506
               50 IF(FFOUR-TEMPL)60,60,70                                       PWR27.507
               60 FFOUR=TEMPL                                                   PWR27.508
               70 JJ=3                                                          PWR27.509
      520         IF(J,GE,MM,AND,J,LE,NN) GO TO 110                             PWR27.510
                  IF(J1-(2)90,80,90                                             PWR27.511
               80 JJ=1                                                          PWR27.512
               90 IF(J1-5)100,110,110                                           PWR27.513
      525   10 0 JJ=2                                                          PWR27.514
              110 IF(FFOUR-65,)150,[illegible]120                               PWR27.515
              120 CALL QSUP(JJ,FF[illegible]MSJ,OUTFL,A1,A2,A3,NGATE,1)         PWR27.516
                  NG1=NG1+NGATE                                                 PWR27.517
                  NG=NG+1                                                       PWR27.518
      530         DO 130 L=1,4                                                  PWR27.519
                  STSJ=BOMSJ+((S[illegible]OUTFL)/337,81+0,5                    PWR27.520
                  SOJ=OUTFL                                                     PWR27.521
                  OUTFL=(A1+(A2+STSJ+A3)++1,5+65000,0)+0,001                    PWR27.522
                  IF(ABS (OUTFL-SOJ)-0,1)140,140,130                            PWR27.523
      535     130 CONTINUE                                                      PWR27.524
              140 SOJ=OUTFL                                                     PWR27.525
                  GO TO 170                                                     PWR27.526
              150 SOJ=SUPLIM(J1)                                                PWR27.527
                  FFOUR=SUPLIM(J1)                                              PWR27.528
      540         NG=NG+1                                                       PWR27.529
              170 STOR=SNTS-SOJ                                                 PWR27.530
                  WRITE(89,20201)J1,BOMSJ,FTHREE,FFOUR,NGATE,SOJ,SNTS,STOR,STOR/337,8PWR27.531
                 1,STSJ                                                         PWR27.532
                  BOMSJ=BOMSJ+(SNTS-SOJ)/337,8                                  PWR27.533
      545         TEMPS=SOJ                                                     PWR27.534
                  OSJ=SOJ                                                       PWR27.535
                  WSO,0                                                         PWR27.536
                  SSO,0                                                         PWR27.537
                  J2=4+(J1-1)+1                                                 PWR27.538
      550         ASSIGNFF(N12MMJ+1+M2+N12SJ+1NS2,NRM2,N12FJ,NREF3)             PWR27.539
```

```
      N12MMJ=N12MMJ+NRSM(J1,IYR)-NRMM(J1)                                PWR27.540
      N12SJ=N12SJ+NRSJ-NRSS2(J1)                                         PWR27.541
      CALL ROUND(.25*(NRSE(J2,IYR)+NRSE(J2+1,IYR)+NRSE(J2+2,IYR)+NRSE(J2PWR27.542
     1+3,IYR)),NRE1)                                                     PWR27.543
  555 N12EJ=N12EJ-NRR(J1)+NRE1                                           PWR27.544
      Y=0.0                                                              PWR27.545
      IF(RDMMJ.GT.TRDMS(J1)) Y=1.0                                       PWR27.546
      IF(J1.NE.K1) GO TO 30                                              PWR27.547
      IJK1=1                                                             PWR27.548
  560 SUM=0.0                                                            PWR27.549
      DO 31 J2=1,12                                                      PWR27.550
      SUM=SUM+PMMS1(J2)                                                  PWR27.551
   31 CONTINUE                                                           PWR27.552
      SUM=SUM/12.                                                        PWR27.553
  565 IF(SUM.GT.TMMS)IJK1=0                                              PWR27.554
   30 CDA=CDP+X*Y*IJK1*CD(J1)                                            PWR27.555
      FNIA=RDD(J1)*XONEF(N12MMJ*INMF+N12SJ*INS,NBM,N12EJ,NBE2)           PWR27.556
     1 -SUB(J1)*(1.-XONEF(N12MMJ*INMF+N12SJ*INSE,NBME,N12EJ,NBEE))       PWR27.557
      CALL CANADA ( M,S,IYR,J1,K1,RDMMJ,RDMSCJ,RDMEJ,NRSM(J1,IYR)*0.1*0SPWR27.558
  570 1J,0.1*ICFM(J1,IYR),NRSSC(J1,IYR)*0.1,0.1*ICFC(J1,IYR),1.,0.1*EICE(PWR27.559
     2J1),NRSE(J2,IYR),CDA,FNIA,QSUM)                                    PWR27.560
      PMMS1(J1)=QSUM                                                     PWR27.561
      IF(J1.GE.12) GO TO 25                                              PWR27.562
      GO TO 26                                                           PWR27.563
  575 25 J1=0                                                            PWR27.564
      IYR=IYR+1                                                          PWR27.565
      IF(IYR.GT.IEY-IBY+1)GO TO 23                                       PWR27.566
   26 J1=J1+1                                                            PWR27.567
      IF(J1.EQ.5) GO TO 23                                               PWR27.568
  580 IF(J1.GT.NN) GO TO 23                                              PWR27.569
      GO TO 24                                                           PWR27.570
   23 CONTINUE                                                           PWR27.571
      CALL  ROUND(NG1*1./NG,NG1)                                         PWR27.572
      NGATE=NG1                                                          PWR27.573
  585 CALL QSUP(JJ,FQ,SEOP,OUTFL,A1,A2,A3,NG1,0)                         PWR27.574
C                                                                        PWR27.575
C     BEGINNING OF MONTH STAGES                                          PWR27.576
   27 BDMS(J)=SEOP                                                       PWR27.577
      BDMM(J)=MEOP                                                       PWR27.578
  590 BDMSC(J)=CEOP                                                      PWR27.579
      BDMF(J)=FEOP                                                       PWR27.580
C                                                                        PWR27.581
C     SUPERIOR                                                           PWR27.582
C     --------                                                           PWR27.583
  595 SNTS=SNMS(J,1)*.1*5.0                                              PWR27.584
      IF(N12MM*LAM+N12S*LMS.GE.NRM3)SNTS=SNTS-LLO*0.1                    FTN.0
      MMS=(MEOP-PMM(J))/PMSD(J)                                          PWR27.586
      S=MM                                                               PWR27.587
      TEMP=S+PSSD(J)*PSM(J)                                              PWR27.588
  600 FSSD(J)=AVAR*(SEOP-TEMP)                                           PWR27.589
      FS=FU                                                              PWR27.590
      TEMP1=TEMPSD + CMNG                                                PWR27.591
      TEMP2=TEMPSD - CMNG                                                PWR27.592
      IF(FS.GT.TEMP1)5,6,6                                               PWR27.593
  605 6 FS=TEMP1                                                         PWR27.594
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```
                5     IF(F4-TEMPL)6,6,7                                                  P4827.595
                6     F4=TEMPL                                                           P4827.596
                7  IF(IF=SG.GT.0.AND.(J.LE.4.OR.(J.EQ.12.AND.IY.NE.IEY))) GO TO 211      P4827.597
                   IF(J.GE.MM.AND.J.LE.NN)GO TO 211                                   P4827.598
          610      JJ=3                                                               P4827.599
                   IF(J-12)9,8,9                                                      P4827.600
                8  JJ=1                                                               P4827.601
                9  IF(J-5)10,11,11                                                    P4827.602
               10  JJ=2                                                              P4827.603
          615  11  IF(F4-65.)15,12,12                                                 P4827.604
               C                                                                      P4827.605
               C  COMPUTE FLOW AND OR GATE SETTINGS FOR LAKE SUPERIOR                 P4827.606
               C  ------------------------------------------------                   P4827.607
                  CALL QSUP(JJ,F4,SEOP,OUTFL,A1,A2,A3,NGATE,1)                       P4827.608
          620  C                                                                      P4827.609
                   GO TO 222                                                          P4827.610
              211  IF(NGATE.EQ.0) GO TO 15                                           P4827.611
                   IF(F4.LE.55) F4=55.                                                P4827.612
                   IF(J.GE.MM.AND.J.LE.NN)GO TO 222                                   P4827.613
          625      IF(F4.GE.85) F4 = 85.                                              P4827.614
              222  CONTINUE                                                           P4827.615
                   DO 13 L=1,4                                                        P4827.616
                   STS(J)=SEOP+((SNTS-OUTFL)/337.8)*0.5                               P4827.617
                   SO(J)=OUTFL                                                        P4827.618
          630      OUTFL=(A1)*(A2*STS(J)-A3)**1.5*65000.0)*0.001                      P4827.619
                   IF(ABS (OUTFL-SO(J))-0.1)14,14,13                                  P4827.620
               13  CONTINUE                                                          P4827.621
               C                                                                      P4827.622
               14  SO(J)=OUTFL                                                       P4827.623
          635      GO TO 17                                                           P4827.624
               15  SO(J)=SUPLIM(J)                                                   P4827.625
                   F4=SUPLIM(J)                                                       P4827.626
                   NGATE=0                                                            P4827.627
               17  SICE = ICE(J,1)*0.1*ICES                                          P4827.628
          640      SO(J) = SO(J)-SICE                                                 P4827.629
                   ICE(J,2)=ICE(J,2)*ICESC                                            P4827.630
                   ICE(J,3)=ICE(J,3)*ICED                                             P4827.631
                   STS(J)=SEOP+(SNTS-SO(J))/(337.8*2.)                                P4827.632
                   STOR=SNTS-SO(J)                                                    P4827.633
          645      SEOP=SEOP+(SNTS-SO(J))/337.8                                       P4827.634
                   TEMPSO=SO(J)                                                       P4827.635
                   OS(J)=SO(J)                                                        P4827.636
                   ICEE=ICE(J)                                                        P4827.637
               C                                                                      P4827.638
          650  C  PRINT SUPERIOR                                                     P4827.639
               C  -------------                                                      P4827.640
                   IF(SO(J)-65.)107,107,108                                           P4827.641
              107  IIG = ISYM(1)                                                      P4827.642
                   GO TO 111                                                          P4827.643
          655  108  IOS=SO(J)+0.5                                                     P4827.644
                   IF(IOS-67)109,109,113                                              P4827.645
               109  IIG = ISYM(2)                                                     P4827.646
              111  PRINT    2030,J,SOMS(J),F3,F4,IIG,SO(J),SNTS,STOR,STOR/337.8,STS(JP4827.647
                  1),ICE(J,2),ICE(J,3),ICEE    ,N12S,N12MM,N12E                     P4827.648
          660      GO TO 114                                                          P4827.649
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      113 PRINT    2120,J,ROMS(1),F3,F4,NGATE,SO(J),SNTS,STON,STOR/3S7,A,STSPWA27.650
         1(J),ICE(J,2),ICE(J,3),ICEE    ,N12S,N12MM,N12E                    PWA27.651
C                                                                           PWA27.652
C     COMPUTE STAGES AND OUTFLOWS FOR LAKES MICH HURON ST CLAIR AND ERIEPWA27.653
C     ------------------------------------------------------------------PWA27.654
      114 CALL CANADP(IY,J,MEOP,CEOP,EEOP,NBS(J,2)*0.1+NS(J),0.1*ICE(J,2),NHPWA27.655
         1S(J,3)*0.1,0.1*ICE(J,3),0.1*EICE(J),DM(J),DSC(J),DE(J))           PWA27.656
C                                                                           PWA27.657
      N12S=N12S-NBSS2(J)+NBS (J,1)                                          PWA27.658
      NBSS2(J)=NBS(J,1)                                                     PWA27.659
      N12MM=N12MM-NBMH(J)+NBS(J,2)                                          PWA27.660
      NBMH(J)=NBS(J,2)                                                      PWA27.661
      N12E=N12E-NBE(J)+NBE1                                                 PWA27.662
      NBE(J)=NBE1                                                           PWA27.663
      NAVE=N12MM/12                                                         PWA27.664
C                                                                           PWA27.665
      IGATE(J)=NGATE                                                        PWA27.666
      STMH(J)=AVEMH                                                         PWA27.667
      PMMS(J)=AVEMH                                                         PWA27.668
      STSC(J)=AVESC                                                         PWA27.669
      STE(J)=AVEE                                                           PWA27.670
C                                                                           PWA27.671
C     COMPUTE US SLIP                                                       PWA27.672
C     ---------------                                                       PWA27.673
      Q=SO(J)/1.283                                                         PWA27.674
      USS(J)=USSL                                                           PWA27.675
      DO 91 I=1,10                                                          PWA27.676
      X=(USS(J)-566.30)**1.5                                                PWA27.677
      V=Q/X                                                                 PWA27.678
   91 USS(J)=V**2.5+STMH(J)                                                 PWA27.679
      USSL=USS(J)                                                           PWA27.680
   10 CONTINUE                                                              PWA27.681
C                                                                           PWA27.682
C                                                                           PWA27.683
C     COMPUTE STAGES AND FLOWS FOR LAKE ONTARIO                             PWA27.684
C     -----------------------------------------                             PWA27.685
      CALL R1958D                                                           PWA27.686
C                                                                           PWA27.687
C     WRITE ST CLAIR DATA                                                   PWA27.688
C     -------------------                                                   PWA27.689
C     ST CLAIR   BEGINNING OF MONTH STAGES 5                                PWA27.690
      WRITE (91,2010) ROMSC, 05, IY                                         PWA27.691
C     ST CLAIR   MONTHLY MEAN STAGES 9                                      PWA27.692
      WRITE (91,2010) STSC , 09, IY                                         PWA27.693
C     ST CLAIR   MONTHLY MEAN OUTFLOWS 10                                   PWA27.694
      WRITE (91,2010) OSC  , 10, IY                                         PWA27.695
C                                                                           PWA27.696
C     WRITE BEGINNING OF MONTH STAGES FOR NAVIGATION                        PWA27.697
C     ----------------------------------------------                        PWA27.698
C     SUPERIOR   1                                                          PWA27.699
      WRITE (92,2010) ROMS , 01, IY                                         PWA27.700
C     MICHIGAN-HURON 2                                                      PWA27.701
      WRITE (92,2010) ROMH , 02, IY                                         PWA27.702
C     ERIE       3                                                          PWA27.703
      WRITE (92,2010) ROME , 03, IY                                         PWA27.704
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      C     ONTARIO    4                                                    P4R27.705
            WRITE (92,2010) ROMO , 04, IY                                   P4R27.706
      C                                                                     P4R27.707
      C     WRITE MONTHLY MEANS FOR DOLLAR BENEFIT AND HI-LOW               P4R27.708
  720 C     ------------------------------------------------                P4R27.709
      C     SUPERIOR   MONTHLY MEAN STAGES 4                                P4R27.710
            WRITE (93,2010) STS  , 04, IY                                   P4R27.711
            WRITE (81,2010) STS  , 04, IY                                   P4R27.712
      C     SUPERIOR   MONTHLY MEAN OUTFLOWS 7                              P4R27.713
  725       WRITE (93,2010) SO   , 07, IY                                   P4R27.714
            WRITE (82,2010) SO   , 07, IY                                   P4R27.715
      C     MICH-HURON MONTHLY MEAN STAGES 3                                P4R27.716
            WRITE (93,2010) STMH , 03, IY                                   P4R27.717
            WRITE (83,2010) STMH , 03, IY                                   P4R27.718
  730 C     MICHIGAN   MONTHLY MEAN OUTFLOWS 8                              P4R27.719
            WRITE (93,2010) OM   , 08, IY                                   P4R27.720
            WRITE (84,2010) OM   , 08, IY                                   P4R27.721
      C     ERIE       MONTHLY MEAN STAGES 2                                P4R27.722
            WRITE (93,2010) STE  , 02, IY                                   P4R27.723
  735       WRITE (85,2010) STE  , 02, IY                                   P4R27.724
      C     ERIE       MONTHLY MEAN OUTFLOWS 6                              P4R27.725
            WRITE (93,2010) OE   , 06, IY                                   P4R27.726
            WRITE (86,2010) OE   , 06, IY                                   P4R27.727
      C     ONTARIO    MONTHLY MEAN STAGES 1                                P4R27.728
  740       WRITE (93,2010) STO  , 01, IY                                   P4R27.729
            WRITE (87,2010) STO  , 01, IY                                   P4R27.730
      C     ONTARIO    MONTHLY MEAN OUTFLOWS 5                              P4R27.731
            WRITE (93,2010) OO   , 05, IY                                   P4R27.732
            WRITE (88,2010) OO   , 05, IY                                   P4R27.733
  745 C     US SLIP MONTHLY MEAN STAGES 11                                  P4R27.734
            WRITE(80,2010)USS,11,IY                                         P4R27.735
      C     MONTHLY GATE SETTINGS                                           P4R27.736
            WRITE(99,1000)IY,IGATE                                          P4R27.737
      C                                                                     P4R27.738
  750 10    CONTINUE                                                        P4R27.739
      C                                                                     P4R27.740
      C     WRITE BLANK RECORDS FOR HI-LOW                                  P4R27.741
      C     ------------------------------                                  P4R27.742
            WRITE ( 81,2010 )                                               P4R27.743
  755       WRITE ( 82,2010 )                                               P4R27.744
            WRITE ( 83,2010 )                                               P4R27.745
            WRITE ( 84,2010 )                                               P4R27.746
            WRITE ( 85,2010 )                                               P4R27.747
            WRITE ( 86,2010 )                                               P4R27.748
  760       WRITE ( 87,2010 )                                               P4R27.749
            WRITE ( 88,2010 )                                               P4R27.750
            WRITE ( 93,2010 )                                               P4R27.751
      C                                                                     P4R27.752
            WRITE ( 80,2010)                                                P4R27.753
  765       WRITE ( 90,2010)                                                P4R27.754
            WRITE ( 95,2010)                                                P4R27.755
            WRITE ( 96,2010)                                                P4R27.756
            WRITE ( 97,2010)                                                P4R27.757
            WRITE ( 98,2010)                                                P4R27.758
  770       WRITE ( 99,2010)                                                P4R27.759
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      C     WRITE MICH HURON ST CLAIR ERIE FINAL RECORD                       P4R27.760
      C     ------------------------------------------                        P4R27.761
            ZERO = 0.0                                                        P4R27.762
            WRITE ( 60   ) ( ZERO,J=1,12 ), 0, 0, 9999                        P4R27.763
      C                                                                       P4R27.764
      C     WRITE ONTARIO FINAL RECORD                                        P4R27.765
      C     --------------------------                                        P4R27.766
            WRITE (61   ) 9999, 0,0,0,1HK,(0,J=1,12),1HK,0,0,0,0,0,0,0,0      P4R27.767
      C                                                                       P4R27.768
      C     PRINT STAGES AND OUTFLOWS FOR LAKES MICH HURON ST CLAIR AND ERIE  P4R27.769
      C     ---------------------------------------------------------------   P4R27.770
            CALL PRTMCE ( NAM, MAXACD, ITITLE, NMC )                          P4R27.771
      C                                                                       P4R27.772
      C     PRINT STAGES AND OUTFLOWS FOR LAKE ONTARIO                        P4R27.773
      C     ------------------------------------------                        P4R27.774
            CALL PRTONT ( NAM, MAXACD, ITITLE, NMC )                          P4R27.775
      C                                                                       P4R27.776
            STOP                                                              P4R27.777
      C                                                                       P4R27.778
         20 PRINT    2040, IY,IYEAR                                           P4R27.779
            STOP  2                                                           P4R27.780
      C                                                                       P4R27.781
      C     FORMAT STATEMENTS                                                 P4R27.782
      C     -----------------                                                 P4R27.783
        679 FORMAT ( 16I5 )                                                   P4R27.784
        681 FORMAT(12F6.0)                                                    P4R27.785
        911 FORMAT ( /28H INITIAL VALUES MIDDLE LAKES          / 12F10.2 )    P4R27.786
        801 FORMAT(8F10.0)                                                    P4R27.787
       1000 FORMAT(9X,I4,7X,12I5)                                             P4R27.788
       1001 FORMAT(9X,I4,7X,12I5/(20X12I5))                                   P4R27.789
       2000 FORMAT(90X  ,28H0 LAKE SUPERIOR REGULATION   /          43H YEAR MO P4R27.790
           1 STAGE  ORULE  OPLAN  GATES   OREGAX3HNTS,   4X,7HSTORAGE,5X,41HSTP4R27.791
           2AGE  MICE  OICE  EICE  N12S  N12H  N12E/11X,3H8OM39X10HTCFS  FEET4PUR27.792
           3X8HMEAN// )                                                       P4R27.793
       2001 FORMAT ( /23H SUPERIOR TARGET STAGES              / 12F10.2 )    P4R27.794
       2002 FORMAT ( /28H SUPERIOR STANDARD DEVATIONS         / 12F10.2 )    P4R27.795
       2003 FORMAT ( /29H MICHIGAN-HURON TARGET STAGES        / 12F10.2 )    P4R27.796
       2004 FORMAT ( /34H MICHIGAN-HURON STANDARD DEVATIONS   / 12F10.2 )    P4R27.797
       2005 FORMAT ( /20H SUPERIOR MEAN FLOWS                 / 12F10.2 )    P4R27.798
       2006 FORMAT ( /37H SUPERIOR LOWER LIMIT FLOWS          / 12F10.2 )    P4R27.799
       2007 FORMAT ( /11H PARAMETERS                          / 12I10 )      P4R27.800
       2008 FORMAT ( /15H INITIAL VALUES                      / 12F10.2 )    P4R27.801
       2009 FORMAT ( /36H NIAGARA RIVER ICE AND WEED CONSTANT / 12F10.2 )    P4R27.802
       2010 FORMAT(12F6.2,I3,I5)                                              P4R27.803
       2011 FORMAT ( /22H SUP PREVIOUS YEAR NBS               / 12I10 )      P4R27.804
       2012 FORMAT ( /22H MHM PREVIOUS YEAR NBS               / 12I10 )      P4R27.805
       2013 FORMAT ( /22H ERE PREVIOUS YEAR NBS               / 12I10 )      P4R27.806
       2014 FORMAT ( /21H ADD TO ERIE OUTFLOWS                  / 12F10.2 )  P4R27.807
       2015 FORMAT ( /23H SUB FROM ERIE OUTFLOWS                / 12F10.2 )  P4R27.808
       2016 FORMAT(31H LONG LAKE OGONKI PARAMETERS               / 12I10 )   P4R27.809
       2017 FORMAT( /32H CHICAGO DIVERSION TARGET STAGES        / 12F10.2 )  P4R27.810
       2018 FORMAT( /32H CHICAGO DIVERSION ADDITIONS            / 12F10.2 )  P4R27.811
       2019 FORMAT( /32H YEARLY AVERAGE TARGET STAGE            / 12F10.2 )  P4R27.812
       2020 FORMAT (I8,F7.2,2F7.1,4X13,3F7.1,2F7.2,6I6)                       P4R27.813
       2021 FORMAT( /20H CHICAGO DIVERSION PARAMETERS           /-12I10 )    P4R27.814
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 2022 FORMAT( /32H PREVIOUS YEARS HURON STAGES          / 12F10.2 )    P4827.015
 2030  FORMAT (IA,F7.2,2F7.1,4XA3,3F7.1,2F7.2,6I6)                    P4827.016
 2040  FORMAT ( 9H YEAR ERR / 5H NEED,I10 / 3H IS,2A,I10 )            P4827.017
 2050 FORMAT(3HM NO SINGLE GATE SETTING IN NONMINTER     )           P4827.018
      END                                                            P4827.019
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A.B.16

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
16275 P4027

VARIABLES	SN	TYPE		RELOCATION					
433	ADD	REAL	ARRAY	/ /	21705	AVAR	REAL		
346	AVEE	REAL		/ /	364	AVEMM	REAL		/ /
345	AVESC	REAL		/ /	21763	A1	REAL		
21744	A2	REAL			21765	A3	REAL		
170	BOME	REAL	ARRAY	/ /	21743	BOMEJ	REAL		
150	BOMM	REAL	ARRAY	/ /	21741	BOMMJ	REAL		
204	BOMS	REAL	ARRAY	/ /	140	BOMS	REAL	ARRAY	/ /
22274	BOMSC	REAL	ARRAY		21742	BOMSCJ	REAL		
21740	BOMSJ	REAL			503	CD	REAL	ARRAY	/ /
22000	CDA	REAL			550	CDP	REAL		/ /
21714	CEMP	REAL			21700	CHMG	REAL		
21715	EEOP	REAL			22220	FICE	REAL	ARRAY	
21755	FFOUR	REAL			22001	FNIA	REAL		
21756	FTHREE	REAL			22000	F3	REAL		
22003	FA	REAL			21774	H	REAL		
21713	HEOP	REAL			21752	HH	REAL		
21717	I	INTEGER			20171	IBK	INTEGER		
301	IBV	INTEGER		/ /	22014	ICF	INTEGER	ARRAY	
42047	ICEC	INTEGER	ARRAY		21700	ICED	INTEGER		
22006	ICEE	INTEGER			40147	ICEM	INTEGER	ARRAY	
21701	ICEN	INTEGER			21676	ICES	INTEGER		
21677	ICESC	INTEGER			220	IFFLW	INTEGER	ARRAY	/ /
302	IEV	INTEGER		/ /	300	IFO	INTEGER		/ /
21702	IFSG	INTEGER			21720	IFASG	INTEGER		
22342	IGATE	INTEGER	ARRAY		22007	IIG	INTEGER		
21675	III	INTEGER			21726	IJ	INTEGER		
592	IJK	INTEGER		/ /	21745	IJK1	INTEGER		
446	INK	INTEGER		/ /	475	INME	INTEGER		/ /
477	INK2	INTEGER		/ /	446	INS	INTEGER		/ /
476	INSE	INTEGER		/ /	500	INS2	INTEGER		/ /
22016	IOS	INTEGER			22300	ISYM	INTEGER	ARRAY	
22431	ITITLE	INTEGER	ARRAY		303	IY	INTEGER		/ /
21750	IYA	INTEGER			21727	IYC	INTEGER		
21728	IYFAR	INTEGER			21735	IYR	INTEGER		
21723	IZ	INTEGER			21725	J	INTEGER		
21741	JJ	INTEGER			21731	J1	INTEGER		
21746	JP	INTEGER			551	K1	INTEGER		/ /
21747	L	INTEGER			21707	LLO	INTEGER		
21711	LMS	INTEGER			21710	LNP	INTEGER		
21672	MAXNCO	INTEGER			21721	MM	INTEGER		
22376	NAM	INTEGER	ARRAY		22011	NAVE	INTEGER		
474	NBEE	INTEGER		/ /	472	NBE1	INTEGER		/ /
471	NBE2	INTEGER		/ /	502	NBE3	INTEGER		/ /
447	NBM	INTEGER		/ /	473	NBME	INTEGER		/ /
501	NBM2	INTEGER		/ /	21712	NBM3	INTEGER		
22316	NBMM	INTEGER	ARRAY		22352	NBR	INTEGER	ARRAY	
347	NBS	INTEGER	ARRAY	/ /	30547	NBSF	INTEGER	ARRAY	
300	NBSEQ	INTEGER	ARRAY	/ /	21750	NBSJ	INTEGER		

VARIABLES	SN	TYPE	RELOCATION							
24767	NASM	INTEGER	ARRAY		23047	NASS	INTEGER	ARRAY		
20667	NBSSC	INTEGER	ARRAY		22302	NASS2	INTEGER	ARRAY		
21737	NG	INTEGER			21766	NGATE	INTEGER			
21736	NG1	INTEGER			21674	NHC	INTEGER			
43777	NNS	INTEGER	ARRAY		44013	NHSQ	INTEGER	ARRAY		
21722	NN	INTEGER			43747	NSS	INTEGER	ARRAY		
43743	NSSQ	INTEGER	ARRAY		470	N12E	INTEGER		/ /	
21734	N12EJ	INTEGER			463	N12MM	INTEGER		/ /	
21732	N12MMJ	INTEGER			465	N12S	INTEGER		/ /	
21733	N12SJ	INTEGER			74	OE	REAL	ARRAY	/ /	
21747	OLLDJ	REAL			44	OM	REAL	ARRAY	/ /	
124	OO	REAL	ARRAY	/ /	22170	OS	REAL	ARRAY		
22244	OSC	REAL	ARRAY		21773	OSJ	REAL			
21742	OUTFL	REAL			22074	PMM	REAL	ARRAY		
22110	PMSD	REAL	ARRAY		558	PMMS	REAL	ARRAY	/ /	
44027	PMMS1	REAL	ARRAY		22124	PSM	REAL	ARRAY		
22140	PSSD	REAL	ARRAY		22012	Q	REAL			
2215	QB	REAL	ARRAY		22002	QSUM	REAL			
21775	R	REAL			21703	SEOP	REAL			
22005	SICE	REAL			21753	SK	REAL			
21751	SNTS	REAL			14	SO	REAL	ARRAY	/ /	
21771	SOJ	REAL			60	STF	REAL	ARRAY	/ /	
30	STMM	REAL	ARRAY	/ /	110	STO	REAL	ARRAY	/ /	
21772	STOR	REAL			0	STS	REAL	ARRAY	/ /	
22250	STSC	REAL	ARRAY		21770	STSJ	REAL			
447	SUB	REAL	ARRAY	/ /	21716	SUM	REAL			
22206	SUPLIM	REAL	ARRAY		517	TBOMS	REAL	ARRAY	/ /	
21754	TEMP	REAL			21760	TEMPL	REAL			
21744	TEMPS	REAL			21706	TEMPSO	REAL			
21757	TEMPU	REAL			553	TMMS	REAL		/ /	
22346	USS	REAL	ARRAY		21673	USSL	REAL			
21776	X	REAL			21777	Y	REAL			
22013	ZERO	REAL								

FILE NAMES		MODE											
0	INPUT	FMT	445	OUTPUT	FMT	1112	TAPE60	UNFMT	1557	TAPE61	UNFMT		
2224	TAPE66	FMT	2671	TAPE80	FMT	3336	TAPE81	FMT	4003	TAPE82	FMT		
4450	TAPE83	FMT	5115	TAPE84	FMT	5562	TAPE85	FMT	6227	TAPE86	FMT		
6674	TAPE87	FMT	7341	TAPE88	FMT	10006	TAPE89	FMT	10453	TAPE90	FMT		
11120	TAPE91	FMT	11565	TAPE92	FMT	12232	TAPE93	FMT	12677	TAPE94			
13344	TAPE95	FMT	14011	TAPE96	FMT	14456	TAPE97	FMT	15123	TAPE98	FMT		
15570	TAPE99	FMT											

EXTERNALS	TYPE	ARGS			
ARSICE		1	CANADA		18
CANADP		13	IARICE		1
PRTNCE		8	PRTONT		8
PTITLE		6	QSUP		9
ROUND		2	R19580		0

INLINE FUNCTIONS	TYPE	ARGS						
ABS	REAL	1	INTRIN		MAXO	INTEGER	0	INTRIN
MINO	INTEGER	0	INTRIN		XONEF	REAL	4	SF

STATEMENT LABELS

0	1	INACTIVE	16323	3		0	4	INACTIVE			
17315	5		0	6	INACTIVE	17320	7				
0	8	INACTIVE	17335	9		0	10	INACTIVE			
17340	11		0	12	INACTIVE	0	13				
17404	14		17407	15		17413	17				
0	18		0	19		20002	20				
0	21		0	22		17244	23				
16727	24		17232	25		17237	26				
17254	27		16700	28		17153	30				
0	31		0	32	INACTIVE	16640	33				
0	34		0	40	INACTIVE	16517	41				
16514	42		17001	50		16614	51				
0	60	INACTIVE	17004	70		0	80	INACTIVE			
17014	90		0	91		0	100	INACTIVE			
0	107	INACTIVE	17440	108		0	109	INACTIVE			
17017	110		17446	111		17463	113				
17477	114		0	120	INACTIVE	0	130				
17052	140		17054	150		17060	170				
0	200		17345	211		17360	222				
21364	670	FMT	21366	681	FMT	21376	801	FMT			
21370	911	FMT	21400	1000	FMT	21403	1001	FMT			
21407	2000	FMT	21433	2001	FMT	21440	2002	FMT			
21446	2003	FMT	21454	2004	FMT	21462	2005	FMT			
21467	2006	FMT	21476	2007	FMT	21502	2008	FMT			
21506	2009	FMT	21514	2010	FMT	21517	2011	FMT			
21524	2012	FMT	21531	2013	FMT	21536	2014	FMT			
21543	2015	FMT	21550	2016	FMT	21556	2017	FMT			
21564	2018	FMT	21572	2019	FMT	21600	2020	FMT			
21605	2021	FMT	21613	2022	FMT	21621	2030	FMT			
21626	2040	FMT	21633	2050	FMT						

LOOPS	LABEL	INDEX	FROM-TO	LENGTH	PROPERTIES
16454	200	I	392 398	12B	INSTACK
16524	21	IZ	412 426	66B	EXT REFS NOT INNER
16603	22	IJ	422 424	5B	EXT REFS
16616	19	IYC	431 750	1066B	EXT REFS EXITS NOT INNER
16643	18	J	481 692	702B	EXT REFS NOT INNER
16723	38	J2	499 501	3B	INSTACK
17027	130	L	530 535	23B	EXT REFS EXITS
17143	31	J2	561 563	3B	INSTACK
17341	13	L	627 632	23B	EXT REFS EXITS
17546	91	I	687 690	14B	EXT REFS
17747		J	774 774	1B	EXT REFS
17748		J	778 778	5H	EXT REFS

COMMON BLOCKS	LENGTH
/ /	363

STATISTICS

PROGRAM LENGTH	27447B	12071
BUFFER LENGTH	14000B	6144
SCM BLANK COMMON LENGTH	543B	355

010000B SCM USED

```
      SUBROUTINE ARSICE ( AICE )                                        ARSICE,2
C     12 MAY 1975                                                       ARSICE,3
C                                                                       ARSICE,4
C     PURPOSE -                                                         ARSICE,5
C        COMPUTE ARSOLUTE ICE WHERE ICE IS A FLOATING POINT ARRAY       ARSICE,6
C                                                                       ARSICE,7
C     USAGE -                                                           ARSICE,8
C        CALL    ARSICE ( AICE )                                        ARSICE,9
C                                                                       ARSICE,10
C     DESCRIPTION OF PARAMETERS -                                       ARSICE,11
C        AICE    - VECTOR OF LENGTH 12 CONTAING ICE VALUES              ARSICE,12
C                                                                       ARSICE,13
C     REMARKS -                                                         ARSICE,14
C        FORTRAN 4                                                      ARSICE,15
C        AICE MUST BE DIMENSIONED 12 IN THE CALLING PROGRAM             ARSICE,16
C                                                                       ARSICE,17
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                   ARSICE,18
C        ABS                                                            ARSICE,19
C                                                                       ARSICE,20
C     METHOD -                                                          ARSICE,21
C        USING INTRINSIC FUNCTION ABS, RETURN ABSOLUTE VALUE OF ICE     ARSICE,22
C                                                                       ARSICE,23
C                                                                       ARSICE,24
      DIMENSION AICE(1)                                                 ARSICE,25
C                                                                       ARSICE,26
      DO 10 I=1,12                                                      ARSICE,27
      AICE(I) =  ABS ( AICE(I) )                                        ARSICE,28
   10 CONTINUE                                                          ARSICE,29
C                                                                       ARSICE,30
      RETURN                                                            ARSICE,31
C                                                                       ARSICE,32
      END                                                               ARSICE,33
```

APR 20

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 ABSICE

VARIABLES SN TYPE RELOCATION
0 AICF REAL ARRAY F.P. 15 I INTEGER

INLINE FUNCTIONS TYPE ARGS
ABS REAL 1 INTRIN

STATEMENT LABELS
0 10

LOOPS LABEL INDEX FROM-TO LENGTH PROPERTIES
11 10 I 26 28 28 INSTACK

STATISTICS
PROGRAM LENGTH 168 14
61000B SCM USED

A.A. 21

```
      SUBROUTINE QSUP ( JJ,REQFL,SREG,OUT,X1,Y1,Z1,N,M )                QSUP,2
C     28 AUG 1974                                                       QSUP,3
C                                                                       QSUP,4
C     PURPOSE -                                                         QSUP,5
C        COMPUTE LAKE SUPERIOR GATE SETTINGS AND FLOW                   QSUP,6
C                                                                       QSUP,7
C     USAGE -                                                           QSUP,8
C        CALL    QSUP ( JJ,REQFL,SREG,OUT,X1,Y1,Z1,N )                  QSUP,9
C                                                                       QSUP,10
C     DESCRIPTION OF PARAMETERS -                                       QSUP,11
C        JJ      - MONTH INDEX  1 DEC  2 JAN-APR  3 MAY-NOV             QSUP,12
C        REQFL   - SUPERIOR REGULATED FLOW IN TCFS                      QSUP,13
C        SREG    - SUPERIOR BEGINNING STAGE IN FEET                     QSUP,14
C        OUT     - SUPERIOR OUT FLOW IN TCFS                            QSUP,15
C        X1      - CONSTANT FOR STAGE DISCHARGE EQUATION                QSUP,16
C        Y1      - CONSTANT FOR STAGE DISCHARGE EQUATION                QSUP,17
C        Z1      - CONSTANT FOR STAGE DISCHARGE EQUATION                QSUP,18
C        N       - NUMBER OF GATES                                      QSUP,19
C        M       - GATE CALCULATING INDEX                               QSUP,20
C                  0 FOR RETURNING CONSTANTS FOR GIVEN GATE SETTING     QSUP,21
C                  1 FOR CALCULATING GATE SETTING                       QSUP,22
C                                                                       QSUP,23
C     REMARKS -                                                         QSUP,24
C        SIMILAR TO SUBROUTINE GATES                                    QSUP,25
C                                                                       QSUP,26
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                   QSUP,27
C        NONE                                                           QSUP,28
C                                                                       QSUP,29
C     METHOD -                                                          QSUP,30
C                                                                       QSUP,31
C                                                                       QSUP,32
      DIMENSION X(17),Y(17),Z(17)                                       QSUP,33
C                                                                       QSUP,34
      DATA X/83.0,196.8,393.0,588.6,833.0,1077.0,1350.0,1618.0,1874.0,  QSUP,35
     1       2022.0,2112.0,2213.0,2278.0,2364.0,2458.0,2538.0,2601.0/   QSUP,36
      DATA Y/7*1.0,0.951,0.950,0.951,0.948,0.951,0.949,0.944,0.946,     QSUP,37
     1       0.944,0.944/                                               QSUP,38
      DATA Z /591.81,591.81,591.38,591.62,592.16,592.65,593.08,564.048, QSUP,39
     1560.172,564.478,561.478,568.498,563.272,560.262,561.518,560.322,  QSUP,40
     1560.292/                                                          QSUP,41
C                                                                       QSUP,42
      IF(M) 10,120,10                                                   QSUP,43
   10 DIF = 0.0                                                         QSUP,44
      IF(JJ-2)20,20,40                                                  QSUP,45
   20 IF(REQFL-85.)30,50,30                                             QSUP,46
   30 REQFL=85.                                                         QSUP,47
      GO TO 50                                                          QSUP,48
   40 N=17                                                              QSUP,49
      OUT=(X(N)*(Y(N)*SREG-Z(N))**1.5*65000.)*0.001                     QSUP,50
      IF(OUT-REQFL)100,100,50                                           QSUP,51
C                                                                       QSUP,52
   50 DO 70 N=1,17                                                      QSUP,53
      OUT=(X(N)*(Y(N)*SREG-Z(N))**1.5*65000.)*0.001                     QSUP,54
      IF(OUT-REQFL)60,100,80                                            QSUP,55
   60 DIF=REQFL-OUT                                                     QSUP,56
```

```
      70 CONTINUE                                                        QSUP,57
C                                                                        QSUP,58
      80 IF(OIF-(OUT-REQFL))90,90,100                                    QSUP,59
      90 OUT=REQFL-OIF                                                   QSUP,60
   80    N=N+1                                                           QSUP,61
         GO TO 110                                                       QSUP,62
     100 IF(JJ-2)101,101,110                                             QSUP,63
     101 OUT=REQFL-OIF                                                   QSUP,64
         N=N+1                                                           QSUP,65
   65    IF(N-1)111,112,112                                              QSUP,66
     111 N=1                                                             QSUP,67
     112 OUT=(X(N)+(Y(N)+SREG-Z(N))**1.5+65000.)**0.001                  QSUP,68
     120 X1=X(N)                                                         QSUP,69
         Y1=Y(N)                                                         QSUP,70
   70    Z1=Z(N)                                                         QSUP,71
         RETURN                                                          QSUP,72
         END                                                             QSUP,73
```

A.A. 23

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 QSUP

VARIABLES	SN	TYPE	RELOCATION					
116	DIF	REAL		0	JJ	INTEGER		F.P.
0	M	INTEGER	F.P.	0	N	INTEGER		F.P.
0	OUT	REAL	F.P.	0	REQFL	REAL		F.P.
0	SBEG	REAL	F.P.	117	X	REAL	ARRAY	
0	X1	REAL	F.P.	100	Y	REAL	ARRAY	
0	Y1	REAL	F.P.	161	Z	REAL	ARRAY	
0	Z1	REAL	F.P.					

STATEMENT LABELS

0	10	INACTIVE	0	20	INACTIVE	0	30	INACTIVE
16	40		32	50		0	60	INACTIVE
0	70		51	80		0	90	INACTIVE
61	100		0	101	INACTIVE	74	110	
0	111	INACTIVE	73	112		104	120	

LOOPS	LABEL	INDEX	FROM-TO	LENGTH	PROPERTIES
38	70	N	52 56	158	EXT REFS EXITS

STATISTICS
PROGRAM LENGTH 2108 136
61000B SCM USED

```
      SUBROUTINE CANADP(IYR,K,EOPMH,EOPSC,EOPE,SMH,RISC,SISC,RID,RIN,   CANADP.2
     1XAV3,XAV6,XAV9)                                                   CANADP.3
C     OR AUG 1974                                                       CANADP.4
C                                                                       CANADP.5
C     SUBROUTINE TO COMPUTE MONTHLY STAGES AND OUTFLOWS                 CANADP.6
C     1962 - 1968 CONDITIONS                                            CANADP.7
C     LAKES MICH HURON ST CLAIR ERIE                                    CANADP.8
C                                                                       CANADP.9
      DIMENSION EQNRS(4)                                                CANADP.10
      COMMON SH(12),SO(12),STMH(12),OM(12),STE(12),XX(12),SOT(12),OO(12)CANADP.11
      COMMON RQMS(12),RQMH(12),RQME(12),RQMO(12),IES(48)                ERIE.6
      COMMON   IFOO, IAY, IEY, IY                                       CANADP.13
      COMMON NHSEQ(48),AVEMH,AVESC,AVEE                                 CANADP.14
      COMMON NRS(12,3)                                                  CANADP.15
      COMMON ADD(12),SUB(12)                                            CANADP.16
      COMMON N12MH,INM,N12S,INS,NBH,N12E,NBE2,NBE1,NBMF,NBEE,INME,INSE  CANADP.17
      COMMON INM2,INS2,NBH2,NBE3,CO(12),TRQMS(12),TMHS,PMHS(12),COP,K1  CANADP.18
      COMMON IJK                                                        CANADP.19
      XONEF(I,J,K,L)=MIN0(MAX0((I-J)+2,0)+MAX0((K-L)+2,0),1)            CANADP.20
C                                                                       CANADP.21
C                                                                       CANADP.22
      IF(K-K1)7,8,7                                                     CANADP.23
    8 IJK=1                                                             CANADP.24
      SUM=0.0                                                           CANADP.25
      DO 9 I=1,12                                                       CANADP.26
      SUM=SUM+PMHS(I)                                                   CANADP.27
    9 CONTINUE                                                          CANADP.28
      SUM=SUM/12.                                                       CANADP.29
      IF(SUM-TMHS)10,7,7                                                CANADP.30
   10 IJK=0                                                             CANADP.31
    7 X=XONEF(N12MH,INM2,N12S,INS2,NBH2,N12E,NBE3)                      CANADP.32
      Y=0.                                                              CANADP.33
      IF(EOPMH.GT.TRQMS(K))Y=1.                                         CANADP.34
      SMTMH=SMH-COP-X*Y*IJK*CO(K)                                       CANADP.35
      JOX=1                                                             CANADP.36
C                                                                       CANADP.37
      DO 3000 LL=1,4                                                    CANADP.38
      LA = (K-1)*4+LL                                                   CANADP.39
      EQNRS(LL)=NRSEQ(LA)*.1                                            CANADP.40
 3000 CONTINUE                                                          CANADP.41
C                                                                       CANADP.42
      CALL ROUND(2,.5*(EQNRS(1)+EQNRS(2)+EQNRS(3)+EQNRS(4)),NBE1)       CANADP.43
C                                                                       CANADP.44
      LL=1                                                              CANADP.45
    2 QSUM1=0.                                                          CANADP.46
      QSUM2=0.                                                          CANADP.47
      QSUM3=0.                                                          CANADP.48
      QSUM4=0.                                                          CANADP.49
      QSUM5=0.                                                          CANADP.50
      QSUM6=0.                                                          CANADP.51
      QSUM7=0.                                                          CANADP.52
      QSUM8=0.                                                          CANADP.53
      QSUM9=0.                                                          CANADP.54
      IF(JOX-1)4,3,4                                                    CANADP.55
    3 QSUM1=0.                                                          CANADP.56
```

```
                      XSUM2=0.                                                  CANADP,57
                      XSUM3=0.                                                  CANADP,58
                      XSUM4=0.                                                  CANADP,59
                      XSUM5=0.                                                  CANADP,60
     60               XSUM6=0.                                                  CANADP,61
                      XSUM7=0.                                                  CANADP,62
                      XSUM8=0.                                                  CANADP,63
                      XSUM9=0.                                                  CANADP,64
                      M1=1                                                      CANADP,65
     65           C                                                            CANADP,66
                  4   DO 103 J=1,10                                            CANADP,67
                      XMMM=EOPMM                                                CANADP,68
                      XMSC=EOPSC                                                CANADP,69
                      XME=EOPE                                                  CANADP,70
     70           C                                                            CANADP,71
                      DO 110 L=1,4                                              CANADP,72
                      MMM=.5*(EOPMM+XMMM)                                       CANADP,73
                      MSC=.5*(EOPSC+XMSC)                                       CANADP,74
                      ME=.5*(EOPE+XME)                                          CANADP,75
     75               MMM1=MMM                                                  CANADP,76
                      MSC1=MSC                                                  CANADP,77
                  C                                                             CANADP,78
                  C   1962 - 1988 CONDITIONS                                    CANADP,79
                  C   ----------------------                                    CANADP,80
     80               C= .5* (MMM1 +MSC1) -543.80                               CANADP,81
                      D = MSC1-583.81                                           CANADP,82
                      OMM = .0841168*C*C+SQRT(MMM1-MSC1)-RISC                   CANADP,83
                      EOPMM=XMMM+(SNTMM-OMM)/19240.                             CANADP,84
                      SNTSC=OMM+SLSC                                            CANADP,85
     85               OSC = .1280849*D*D+SQRT(MSC1-ME)-RID                      CANADP,86
                      EOPSC=XMSC+(SNTSC-OSC)/192.                               CANADP,87
                      SNTE = OSC + EQVRS(LL)                                    CANADP,88
                      OE=3.6A5*(ME-556.25)**1.5-RIN . +7.                       CANADP,89
                      OE=OE+ADD(K)*XONEF(N12MM*INM+N12S*INS,NBM,N12E,NBE2)      CANADP,90
     90               OE=OE-SUM(K)*(1-XONEF(N12MM*INME+N12S*INSE,NBME,N12E,NBEE)).  CANADP,91
                      EOPE=XME+(SNTE-OE)/4200.                                  CANADP,92
                 110  CONTINUE                                                  CANADP,93
                  C                                                             CANADP,94
                      MMM=.5*(EOPMM+XMMM)                                       CANADP,95
     95               MSC=.5*(EOPSC+XMSC)                                       CANADP,96
                      ME=.5*(EOPE+XME)                                          CANADP,97
                      QSUM1=QSUM1+SNTMM                                         CANADP,98
                      QSUM2=QSUM2+MMM                                           CANADP,99
                      QSUM3=QSUM3+OMM                                           CANADP,100
    100               QSUM4=QSUM4+SNTSC                                         CANADP,101
                      QSUM5=QSUM5+MSC                                           CANADP,102
                      QSUM6=QSUM6+OSC                                           CANADP,103
                      QSUM7=QSUM7+SNTE                                          CANADP,104
                      QSUM8=QSUM8+ME                                            CANADP,105
    105               QSUM9=QSUM9+OE                                            CANADP,106
                 103  CONTINUE                                                  CANADP,107
                  C                                                             CANADP,108
                      M1=M1+1                                                   CANADP,109
                      QAV1=QSUM1*.1                                             CANADP,110
    110               QAV2=QSUM2*.1                                             CANADP,111
```

AFA 26

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      QAV3=QSUM3*.1                                                     CANADP.112
      QAV4=QSUM4*.1                                                     CANADP.113
      QAV5=QSUM5*.1                                                     CANADP.114
      QAV6=QSUM6*.1                                                     CANADP.115
  115 QAV7=QSUM7*.1                                                     CANADP.116
      QAV8=QSUM8*.1                                                     CANADP.117
      QAV9=QSUM9*.1                                                     CANADP.118
C                                                                       CANADP.119
C     QUARTER MONTH STAGES AND OUTFLOWS                                 CANADP.120
  120 C     ---------------------------------                           CANADP.121
      WRITE (60  ) QAV1,QAV2,QAV3,EOPMM,QAV4,QAV5,QAV6,EOPSC,QAV7,QAV8, CANADP.122
     1           QAV9,EOPF,K,M1=1,IYR                                   CANADP.123
C                                                                       CANADP.124
      M2 = 4*(K-1)+M1+1                                                 CANADP.125
  125 CALL ROUND(QAV9*10.0,IFS(M2))                                     FFTX.9
      XSUM1=XSUM1+QSUM1                                                 CANADP.127
      XSUM2=XSUM2+QSUM2                                                 CANADP.128
      XSUM3=XSUM3+QSUM3                                                 CANADP.129
      XSUM4=XSUM4+QSUM4                                                 CANADP.130
  130 XSUM5=XSUM5+QSUM5                                                 CANADP.131
      XSUM6=XSUM6+QSUM6                                                 CANADP.132
      XSUM7=XSUM7+QSUM7                                                 CANADP.133
      XSUM8=XSUM8+QSUM8                                                 CANADP.134
      XSUM9=XSUM9+QSUM9                                                 CANADP.135
  135 LL = LL + 1                                                       CANADP.136
      IF(M1-515,6,5                                                     CANADP.137
    5 JDX=2                                                             CANADP.138
      GO TO 7                                                           CANADP.139
    6 XAV1=XSUM1*.025                                                   CANADP.140
  140 XAV2=XSUM2*.025                                                   CANADP.141
      XAV3=XSUM3*.025                                                   CANADP.142
      XAV4=XSUM4*.025                                                   CANADP.143
      XAV5=XSUM5*.025                                                   CANADP.144
      XAV6=XSUM6*.025                                                   CANADP.145
  145 XAV7=XSUM7*.025                                                   CANADP.146
      XAV7=XSUM7*.025                                                   CANADP.147
      XAV8=XSUM8*.025                                                   CANADP.148
      XAV9=XSUM9*.025                                                   CANADP.149
C                                                                       CANADP.150
  150 C     AVERAGE ELEVATION MICH-HURON ST CLAIR ERIE                  CANADP.151
C     ------------------------------------------                        CANADP.152
      AVEMH = XAV2                                                      CANADP.153
      PMHS(K)=XAV2                                                      CANADP.154
      AVESC = XAV5                                                      CANADP.155
  155 AVEE  = XAV8                                                      CANADP.156
C                                                                       CANADP.157
C     MONTHLY STAGES AND OUTFLOWS                                       CANADP.158
C     ---------------------------                                       CANADP.159
      WRITE (60  ) XAV1,XAV2,XAV3,EOPMM,XAV4,XAV5,XAV6,EOPSC,XAV7,XAV8, CANADP.160
  160 1          XAV9,EOPE                                              CANADP.161
      RETURN                                                            CANADP.162
      END                                                               CANADP.163
```

ATA 2/7

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 CANADP

VARIABLES	SN	TYPE	RELOCATION					
833	ADD	REAL	ARRAY	/ /	366	AVEE	REAL	/ /
364	AVEMM	REAL		/ /	365	AVESC	REAL	/ /
370	BDME	REAL	ARRAY	/ /	154	BDMM	REAL	ARRAY / /
204	BDMO	REAL	ARRAY	/ /	140	BDMS	REAL	ARRAY / /
517	C	REAL			503	CD	REAL	ARRAY / /
550	CDP	REAL		/ /	520	D	REAL	
0	EOPE	REAL		F.P.	0	EOPMM	REAL	F.P.
0	EOPSC	REAL		F.P.	546	FOMBS	REAL	ARRAY
514	ME	REAL			512	MMM	REAL	
515	MPM1	REAL			513	MSC	REAL	
516	MSC1	REAL			853	I	INTEGER	
301	IBV	INTEGER		/ /	220	IES	INTEGER	ARRAY / /
302	IEV	INTEGER		/ /	300	IFOD	INTEGER	/ /
552	IJK	INTEGER		/ /	464	INM	INTEGER	/ /
475	INME	INTEGER		/ /	477	INM2	INTEGER	/ /
466	INS	INTEGER		/ /	476	INSE	INTEGER	/ /
500	INS2	INTEGER		/ /	303	IY	INTEGER	/ /
0	IYR	INTEGER		F.P.	505	J	INTEGER	
457	JDX	INTEGER			0	K	INTEGER	F.P.
551	K1	INTEGER		/ /	511	L	INTEGER	
461	LA	INTEGER			460	LL	INTEGER	
508	M1	INTEGER			557	M2	INTEGER	
470	MBEE	INTEGER		/ /	472	MBE1	INTEGER	/ /
471	MBE2	INTEGER		/ /	502	MBF3	INTEGER	/ /
467	MBM	INTEGER		/ /	473	MBME	INTEGER	/ /
501	MBM2	INTEGER		/ /	367	MBS	INTEGER	ARRAY / /
508	MBSEQ	INTEGER	ARRAY	/ /	470	M12E	INTEGER	/ /
843	M12MM	INTEGER		/ /	465	M12S	INTEGER	/ /
525	OE	REAL			44	OM	REAL	ARRAY / /
521	OMM	REAL			124	OO	REAL	ARRAY / /
523	OSC	REAL			534	PMMS	REAL	ARRAY / /
526	QAV1	REAL			527	QAV2	REAL	
530	QAV3	REAL			531	QAV4	REAL	
532	QAV5	REAL			533	QAV6	REAL	
534	QAV7	REAL			535	QAVA	REAL	
536	QAV8	REAL			462	QSUM1	REAL	
463	QSUM2	REAL			468	QSUM3	REAL	
465	QSUM4	REAL			466	QSUM5	REAL	
467	QSUM6	REAL			470	QSUM7	REAL	
471	QSUM8	REAL			472	QSUM9	REAL	
0	RID	REAL		F.P.	0	RIN	REAL	F.P.
0	RISC	REAL		F.P.	0	SM	REAL	ARRAY / /
0	SLSC	REAL		F.P.	0	SMM	REAL	F.P.
528	SNTE	REAL			456	SNTMM	REAL	
522	SNTSC	REAL			18	SO	REAL	ARRAY / /
110	SOT	REAL	ARRAY	/ /	60	STE	REAL	ARRAY / /
30	STMM	REAL	ARRAY	/ /	447	SUR	REAL	ARRAY / /
452	SUM	REAL			517	TBOMS	REAL	ARRAY / /

VARIABLES	SN	TYPE	RELOCATION					
533	TMMS	REAL	/ /	458	X	REAL		
540	XAV1	REAL		541	XAV2	REAL		
0	XAV3	REAL	F.P.	542	XAV4	REAL		
543	XAV5	REAL		0	XAV6	REAL	F.P.	
544	XAV7	REAL		545	XAV8	REAL		
0	XAV9	REAL	F.P.	510	XHF	HFAL		
506	XHMM	REAL		507	XMSC	REAL		
473	XSUM1	REAL		474	XSUM2	REAL		
475	XSUM3	REAL		476	XSUM4	REAL		
477	XSUM5	REAL		500	XSUM6	REAL		
501	XSUM7	REAL		502	XSUM8	REAL		
503	XSUM9	REAL		74	XX	REAL	ARRAY / /	
455	Y	REAL						

FILE NAMES	MODE
TAPE60	UNFMT

EXTERNALS	TYPE	ARGS				
ROUND		2		SQRT	REAL	1 LIBRARY

INLINE FUNCTIONS	TYPE	ARGS					
MAXO	INTEGER	0	INTRIN	MINO	INTEGER	0	INTRIN
XONEF	REAL	4	SF				

STATEMENT LABELS									
76	2			0	5	INACTIVE	112	8	
0	5	INACTIVE		336	6		24	7	
0	8	INACTIVE		0	9		0	10	INACTIVE
0	103			0	110		0	3000	

LOOPS	LABEL	INDEX	FROM-TO	LENGTH	PROPERTIES		
18	9	I	25 27	3R	INSTACK		
61	3000	LL	37 40	5R	INSTACK		
113	103	J	66 106	143R	EXT REFS	NOT INNER	
120	110	L	71 92	103R	EXT REFS		

COMMON BLOCKS	LENGTH
/ /	363

STATISTICS		
PROGRAM LENGTH	574B	380
SCM BLANK COMMON LENGTH	563B	363
61000B SCM USED		

```
      SUBROUTINE CANADA (A,B,IYR,K,K1,EOPMM,EOPSC,EOPE,SMM,RISC,SLSC,  RCANADA.2
     1TD,SF,RIM,NRSF,CO,FNTA,QSUM)                                      CANADA.3
C     11 SEPTEMBER 1978                                                 CANADA.4
C                                                                       CANADA.5
C     SUBROUTINE TO COMPUTE MONTHLY STAGES AND OUTFLOWS                 CANADA.6
C     1962 - 1968 CONDITIONS                                            CANADA.7
C     LAKES MICH HURON ST CLAIR ERIE                                    CANADA.8
C                                                                       CANADA.9
      DIMENSION NRSE(4)                                                 CANADA.10
C                                                                       CANADA.11
C                                                                       CANADA.12
      SNTMM=SMM=CO                                                      CANADA.13
      QSUM=0.0                                                          CANADA.14
C                                                                       CANADA.15
C                                                                       CANADA.16
      DO 103 LL=1,4                                                     CANADA.17
      DO 103 J=1,10                                                     CANADA.18
      XMMM=EOPMM                                                        CANADA.19
      XMSC=EOPSC                                                        CANADA.20
      XME=EOPE                                                          CANADA.21
C                                                                       CANADA.22
      DO 110 L=1,4                                                      CANADA.23
      MMM=.5*(EOPMM+XMMM)                                               CANADA.24
      MSC=.5*(EOPSC+XMSC)                                               CANADA.25
      ME=.5*(EOPE+XME)                                                  CANADA.26
      MMM1=MMM+A                                                        CANADA.27
      MSC1=MSC+B                                                        CANADA.28
C                                                                       CANADA.29
C     1962 - 1968 CONDITIONS                                            CANADA.30
C     ----------------------                                            CANADA.31
      C= .5* (MMM1 +MSC1) -543.40                                       CANADA.32
      D = MSC1-543.81                                                   CANADA.33
      OMM = .084116*C*C*SQRT(MMM1-MSC1)-SLSC                            CANADA.34
      EOPMM=XMMM+(SNTMM-OMM)/19240.                                     CANADA.35
      SNTSC=OMM+SLSC                                                    CANADA.36
      OSC = .1280849*D*D*SQRT(MSC1-ME)-RID                              CANADA.37
      EOPSC=XMSC+(SNTSC-OSC)/192.                                       CANADA.38
      SNTE = OSC + NRSF(LL)*0.1                                         CANADA.39
      OF=3.665*(ME-556.25)**1.5-RIM+7.*FNTA                             CANADA.40
      EOPE=XME+(SNTE-OE)/4200.                                          CANADA.41
  110 CONTINUE                                                          CANADA.42
      MMM=.5*(EOPMM+XMMM)                                               CANADA.43
      QSUM=QSUM+MMM                                                     CANADA.44
C                                                                       CANADA.45
  103 CONTINUE                                                          CANADA.46
      QSUM=QSUM*.025                                                    CANADA.47
C                                                                       CANADA.48
      RETURN                                                            CANADA.49
      END                                                               CANADA.50
```

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 CANADA

VARIABLES	SN	TYPE		RELOCATION					
0	A	REAL		F.P.	0	B	REAL		F.P.
151	C	REAL			0	CD	REAL		F.P.
152	D	REAL			0	EOPE	REAL		F.P.
0	EOPMM	REAL		F.P.	0	EOPSC	REAL		F.P.
0	FNIA	REAL		F.P.	146	HE	REAL		
144	HMM	REAL			147	HMM1	REAL		
145	HSC	REAL			150	HSC1	REAL		
0	IVR	INTEGER	*UNUSED	F.P.	137	J	INTEGER		
0	K	INTEGER	*UNUSED	F.P.	0	K1	INTEGER	*UNUSED	F.P.
143	L	INTEGER			136	LL	INTEGER		
0	NBSE	INTEGER	ARRAY	F.P.	157	OE	REAL		
153	OMM	REAL			155	OSC	REAL		
0	QSUM	REAL		F.P.	0	RID	REAL		F.P.
0	RIN	REAL		F.P.	0	RISC	REAL		F.P.
0	SE	REAL	*UNUSED	F.P.	0	SLSC	REAL		F.P.
0	SMM	REAL		F.P.	156	SNTE	REAL		
135	SNTMM	REAL			154	SNTSC	REAL		
142	XME	REAL			140	XMMM	REAL		
141	XMSC	REAL							

EXTERNALS TYPE ARGS
SORT REAL 1 LIBRARY

STATEMENT LABELS
0 103 0 110

LOOPS	LABEL	INDEX	FROM-TO	LENGTH	PROPERTIES
13	103	LL	16 45	102A	EXT REFS NOT INNER
14	103	J	17 45	76B	EXT REFS NOT INNER
21	110	L	22 41	63A	EXT REFS

STATISTICS
PROGRAM LENGTH 204A 132
61000A SCM USED

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      SUBROUTINE R1958D                                                  R1958D.2
C     OR OCT 1976                                                        R1958D.3
C                                                                        R1958D.4
C     PURPOSE -                                                          R1958D.5
C     SUBROUTINE TO COMPUTE STAGES AND FLOWS FOR LAKE ONTARIO            R1958D.6
C     GIVEN BEGINNING STAGE AND NET TOTAL SUPPLIES                       R1958D.7
C                                                                        R1958D.8
C     USAGE -                                                            R1958D.9
C        CALL    R1958D                                                  R1958D.10
C                                                                        R1958D.11
C     DESCRIPTION OF PARAMETERS -                                        R1958D.12
C        NONE                                                            R1958D.13
C                                                                        R1958D.14
C     REMARKS -                                                          R1958D.15
C     R1958D     ADDS OR SUBTRACTS FROM THE BASIC RULE CURVE FLOW        R1958D.16
C     ACCORDING AS THE SUPPLIES FOR SUPERIOR-MICHIGAN-HURON,ERIE OR      R1958D.17
C     ONTARIO ARE ABOVE OR BELOW A GIVEN VALUE,                          R1958D.18
C     OR, AS THE ADJUSTED SUPPLY INDICATOR IS ABOVE OR BELOW GIVEN       R1958D.19
C     NUMBERS                                                            R1958D.20
C     EACH BASIN MAY HAVE A DIFFERENT UPPER AND LOWER LIMIT.             R1958D.21
C     IF ONE BASIN HAS SUPPLY ABOVE THE LIMIT AND ONE BELOW, THE BASIC   R1958D.22
C     RULE CURVE FLOW IS BOTH RAISED AND LOWERED.                        R1958D.23
C     IF ONE OR MORE ARE ABOVE THEN THE FLOW IS RAISED AND IF ONE OR     R1958D.24
C     MORE ARE LOWER THEN IT IS LOWERED.                                 R1958D.25
C     THE SUPPLIES USED FOR THIS DETERMINATION ARE THE RUNNING 12 MONTH  R1958D.26
C     SUMS IN KCFS FOR SUPERIOR-MICHIGAN-HURON AND RUNNING 48 QUARTER    R1958D.27
C     MONTH SUPPLY SUMS FOR ERIE AND ONTARIO, BOTH IN KCFS.              R1958D.28
C     THE ADJUSTED SUPPLY INDICATOR NUMBERS MAY BE DIFFERENT FOR ADDING  R1958D.29
C     OR SUBTRACTING.                                                    R1958D.30
C     THERE CAN ALSO BE A DIFFERENT NUMBER FOR EACH MONTH TO BE ADDED    R1958D.31
C     OR SUBTRACTED.                                                     R1958D.32
C     IT ALSO HAS AN UPPER LIMIT OF 330 ON THE ONTARIO BASIC FLOW        R1958D.33
C                                                                        R1958D.34
C     INPUT CARDS IN FOLLOWING ORDER                                     R1958D.35
C                                                                        R1958D.36
C     READ  1001 - THREE CARDS                                           R1958D.37
C     COL    FMT     VAR  DESCRIPTION                                    R1958D.38
C     01-80  16I5    MAX  MAXIMUM P LIMITATION VALUES                    R1958D.39
C                                                                        R1958D.40
C     READ  1001 - THREE CARDS                                           R1958D.41
C     COL    FMT     VAR  DESCRIPTION                                    R1958D.42
C     01-80  16I5    MIN  MINIMUM P LIMITATION VALUES                    R1958D.43
C                                                                        R1958D.44
C     READ  1001 - ONE CARD                                              R1958D.45
C     COL    FMT     VAR  DESCRIPTION                                    R1958D.46
C     01-80  16I5    MLIM MINIMUM M LIMITATION VALUES                    R1958D.47
C                                                                        R1958D.48
C                                                                        R1958D.49
C     READ  908 - ONE CARD                                               R1958D.50
C     COL    FMT     VAR  DESCRIPTION                                    R1958D.51
C     01-66  22I3    ISI  SUPPLY INDICATOR FOR 22 QUARTERS PRECEDING     R1958D.52
C     INITIAL QUARTER.                                                   R1958D.53
C                                                                        R1958D.54
C     READ  700 - ONE CARD                                               R1958D.55
C     COL    FMT     VAR  DESCRIPTION                                    R1958D.56
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E.A.A. 32

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C     01-05    IS    IQR  INITIAL QUARTER                                        R195AD.57
C     06-10    IS    MQR  INITIAL MONTH                                          R195AD.58
C     11-15    IS IYEARR  INITIAL YEAR                                          R195AD.59
C     16-20    IS    IQF  FINAL   QUARTER                                       R195AD.60
C     21-25    IS    MQF  FINAL   MONTH                                         R195AD.61
C     26-30    IS IYEARF  FINAL   YEAR                                          R195AD.62
C     31-35    IS    IST  INITIAL WEIGHTED SUPPLY                             R195AD.63
C     36-40    IS    IEX  EXCEEDENCE PROBABILITY                              R195AD.64
C     41-45    IS   ANTS  INITIAL QUARTER NET TOTAL SUPPLY IN TCFS            R195AD.65
C     46-50    IS   ISUM  INITIAL QUARTER SUPPLY INDICATOR ADJUSTMENT         R195AD.66
C     51-55    IS     IQ  INITIAL BASIC RULE CURVE FLOW IN TCFS               R195AD.67
C     56-60    IS ISTAGE  INITIAL STAGE                                        R195AD.68
C     61-63    I3  INDEX  DIFF IN FLOWS INDEX                                 R195AD.69
C                         1 FOR I LIMITATION                                  R195AD.70
C                         0 FOR NO I LIMITATION                               R195AD.71
C     64-66    I3    LIM  INITIAL FLOW IN TCFS                                R195AD.72
C     67-69    I3     IE  LIMIT CODE FOR LIM                                  R195AD.73
C     70-72    I3   LIM1  ACTUAL FLOW FOR SECOND QUARTER                      R195AD.74
C     73-75    I3    IE1  LIMIT CODE FOR LIM1 ( CODE 1-7 LIKE IE )            R195AD.75
C     76-80    I3  IACUM  SUM OF DISIPATION IN TCFS                           R195AD.76
C                                                                             R195AD.77
C     READ  702 - ONE CARD                                                    R195AD.78
C     COL    FMT     VAR   DESCRPITION                                        R195AD.79
C     01-05    I5     IML  RUNNING SUM OF SUP AND M-M 12 MONTHS NBS           R195AD.80
C                          WHICH MUST BE SURCEEDED FOR THE ONTARIO            R195AD.81
C                          OUTFLOW TO BE DECREASED                            R195AD.82
C     06-10    I5     IMH  RUNNING SUM OF SUP AND M-M 12 MONTHS NBS           R195AD.83
C                          WHICH MUST BE  EXCEEDED FOR THE ONTARIO            R195AD.84
C                          OUTFLOW TO BE INCREASED                            R195AD.85
C     11-15    I5     IFL  RUNNING SUM OF ERIE AB QUARTER-MONTHS NBS          R195AD.86
C                          WHICH MUST BE SURCEEDED FOR THE ONTARIO            R195AD.87
C                          OUTFLOW TO BE DECREASED                            R195AD.88
C     16-20    I5     IFH  RUNNING SUM OF ERIE AB QUARTER-MONTHS NBS          R195AD.89
C                          WHICH MUST BE  EXCEEDED FOR THE ONTARIO            R195AD.90
C                          OUTFLOW TO BE INCREASED                            R195AD.91
C     21-25    I5     IOL  RUNNING SUM OF ONTARIO AB QUARTER-MONTHS NBS       R195AD.92
C                          WHICH MUST BE SURCEEDED FOR THE ONTARIO            R195AD.93
C                          OUTFLOW TO BE DECREASED                            R195AD.94
C     26-30    I5     IOH  RUNNING SUM OF ONTARIO AB QUARTER-MONTHS NBS       R195AD.95
C                          WHICH MUST BE  EXCEEDED FOR THE ONTARIO            R195AD.96
C                          OUTFLOW TO BE INCREASED                            R195AD.97
C                                                                             R195AD.98
C     READ  700 - ONE CARD                                                    R195AD.99
C     COL    FMT     VAR   DESCRPITION                                        R195AD.100
C     01-60  12I5    IUP  AMOUNT ONTARIO FLOW INCREASED BY MONTH IN TCFS     R195AD.101
C     61-65    I5 IASIUP  ADJUSTED SUPPLY INDICATOR WHICH MUST BE            R195AD.102
C                          EXCEEDED FOR ONTARIO FLOW TO BE INCREASED          R195AD.103
C                                                                             R195AD.104
C     READ  700 - ONE CARD                                                    R195AD.105
C     COL    FMT     VAR   DESCRPITION                                        R195AD.106
C     01-60  12I5    IDN  AMOUNT ONTARIO FLOW DECREASED BY MONTH IN TCFS     R195AD.107
C     61-65    I5 IASIDN  ADJUSTED SUPPLY INDICATOR WHICH MUST BE            R195AD.108
C                          SURCEEDED FOR ONTARIO FLOW TO BE INCREASED         R195AD.109
C                                                                             R195AD.110
C     READ  702 - ONE CARD                                                    R195AD.111
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C     COL   FMT    VAR   DESCRPTION                                          R195AD.112
C     01-60  12I5     NS  SUPERIOR PREVIOUS YEARS NBS                       R195AD.113
C                                                                           R195AD.114
C     READ  702 - ONE CARD                                                  R195AD.115
C     COL   FMT    VAR   DESCRPTION                                         R195AD.116
C     01-60  12I5    NMF  MICH-HURON PREVIOUS YEARS NBS                     R195AD.117
C                                                                           R195AD.118
C     READ  702 - ONE CARD                                                  R195AD.119
C     COL   FMT    VAR   DESCRPTION                                         R195AD.120
C     01-60  12I5     NE  ERIE PREVIOUS YEARS NBS                          R195AD.121
C                                                                           R195AD.122
C     READ  702 - ONE CARD                                                  R195AD.123
C     COL   FMT    VAR   DESCRPTION                                         R195AD.124
C     01-60  12I5     NO  ONTARIO PREVIOUS YEARS NBS                       R195AD.125
C                                                                           R195AD.126
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                       R195AD.127
C        ROUND TITLE                                                        R195AD.128
C        MIND MAXO                                                          R195AD.129
C                                                                           R195AD.130
C     METHOD -                                                              R195AD.131
C        AS DISCRIBED IN -                                                  R195AD.132
C                          REGULATION OF LAKE ONTARIO                       R195AD.133
C                               PLAN 1958-D                                 R195AD.134
C                            U.S. LAKE SURVEY                               R195AD.135
C                              REPORT TO                                    R195AD.136
C                     THE INTERNATIONAL JOINT COMMISSION                    R195AD.137
C                                 BY                                        R195AD.138
C                     THE INTERNATIONAL ST. LAWRENCE RIVER                  R195AD.139
C                              BOARD OF CONTROL                             R195AD.140
C                                 JULY 1963                                 R195AD.141
C                                                                           R195AD.142
C                                                                           R195AD.143
      DIMENSION   NBS (48),   ISI (80), IC (7),NBS-(48),ISA (48)            R195AD.144
      DIMENSION           IFF( 9), MAX (48), MIN(48),MLIM (12), MON (12)    R195AD.145
      DIMENSION IFLO(48), STAGE(12), OUT(12), IDIS(48), ICE(12)             R195AD.146
      DIMENSION NTSO(48), NTS(48),ICESL(12),ADD(48),OOMS(48),OOF(48)        R195AD.147
      DIMENSION SLOF(48),HSL(48)                                            R195AD.148
      DIMENSION IUP(12),IDN(12,,NS(12),NMH(12),NE(48),NO(48)                R195AD.149
C                                                                           R195AD.150
C              SUPERIOR AND MICHIGAN-HURON STAGES AND FLOWS                 R195AD.151
C                                                                           R195AD.152
      COMMON SF2(12),SO2(12),HE2(12),HO2(12)                                R195AD.153
C                                                                           R195AD.154
C                     ERIE AND ONTARIO STAGES AND FLOWS                     R195AD.155
C                                                                           R195AD.156
      COMMON EE2(12),EO2(12),OF2(12),OO2(12)                                R195AD.157
C                                                                           R195AD.158
C              SUP MUR ERE ONT BEGINNING OF MONTH STAGES                    R195AD.159
C                                                                           R195AD.160
      COMMON ES1(12),EH1(12),EF1(12),EO1(12)                                R195AD.161
C                                                                           R195AD.162
C                        ERIE QUARTER MONTH OUTFLOWS                        R195AD.163
C                                                                           R195AD.164
      COMMON IES(48)                                                        EFTX.10
C                                                                           R195AD.166
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C                                  INITIAL DATA                                  R1958D.167
C                                                                                R1958D.168
      COMMON IFO, IBY,IEY, IY                                                    R1958D.169
C                                                                                R1958D.170
C                                  ERIE QUARTER MONTH NBS                        R1958D.171
C                                                                                R1958D.172
      COMMON NBSEQ(48)                                                           R1958D.173
C                                                                                R1958D.174
C          MICH-HURON ST CLAIR ERIE AVERAGE MONTHLY MEAN STAGE                   R1958D.175
C                                                                                R1958D.176
      COMMON AVEMH,AVESC,AVEE                                                    R1958D.177
C                                                                                R1958D.178
C                                  SUP M-H STC NBS                               R1958D.179
C                                                                                R1958D.180
      COMMON NBSUL(12,3)                                                         R1958D.181
C                                                                                R1958D.182
C                                  INTERNAL FUCTIONS                             R1958D.183
C                                                                                R1958D.184
      I12F(I,J)=MAXO(0,MINO(I-J,1))                                              R1958D.185
      I11F(I,J,K,L,M,N,I1,J1)=MAXO(I12F(I,J),I12F(K,L),I12F(M,N),I12F(I1,J1))    R1958D.186
C                                                                                R1958D.187
C                                  DATA STATEMENTS                               R1958D.188
C                                                                                R1958D.189
      DATA MON/3HJAN,3HFEB,3HMAR,3HAPR,3HMAY,3HJUN,3HJUL,3HAUG,3HSEP,            R1958D.190
     1     3HOCT,3HNOV,3HDEC/                                                    R1958D.191
      DATA IC/3H I ,3H J ,3H L ,3H M ,3H P ,3H Pa,3H   /                         R1958D.192
      DATA III/1/                                                                R1958D.193
C                                                                                R1958D.194
C                                  NORMAL WEIGHTED SUPPLIES                      R1958D.195
C                                                                                R1958D.196
      DATA  NWS/ 234, 234, 233, 233, 233, 233, 233, 233, 233, 235,               R1958D.197
     1           237, 242, 246, 249, 252, 254, 257, 258, 260, 261,               R1958D.198
     1           262, 262, 263, 263, 262, 262, 261, 259, 258, 256,               R1958D.199
     1           254, 252, 250, 248, 246, 244, 243, 241, 239, 238,               R1958D.200
     1           237, 236, 235, 235, 235, 235, 234, 234/                         R1958D.201
C                                                                                R1958D.202
C                                  SEASONAL ADJUSTMENT                           R1958D.203
C                                                                                R1958D.204
      DATA  ISA/   0,  -6,  -6,  -6,  -6,  -6,  -6,  -6,  -6,  -6,               R1958D.205
     1            -6,  -6,  -8, -10, -12, -14, -16, -18, -20, -20,               R1958D.206
     1           -20, -20, -20, -20, -18, -16, -14, -12, -10,  -8,               R1958D.207
     1            -6,  -4,  -2,   0,   2,   2,   2,   2,   2,   4,               R1958D.208
     1             4,   6,   4,   4,   4,   4,   6,   6/                         R1958D.209
      PO=1.0/1.5                                                                 R1958D.210
C                                                                                R1958D.211
C                                  READ IN TABLES                                R1958D.212
C                                                                                R1958D.213
      IF(III-2)3987,90,80                                                        R1958D.214
 3987 III = 2                                                                    R1958D.215
C                                                                                R1958D.216
C                                  MAXIMUM P LIMITATION                          R1958D.217
C                                                                                R1958D.218
      READ 1001,MAX                                                              R1958D.219
C                                                                                R1958D.220
                                                                                 R1958D.221
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P.A. 3 of

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C                                   MINIMUM P LIMITATION                    R1958D,222
C                                                                           R1958D,223
      READ 1001,MIN                                                         R1958D,224
C                                                                           R1958D,225
C                                   M LIMITATION                            R1958D,226
C                                                                           R1958D,227
      READ 1001,MLIM                                                        R1958D,228
C                                                                           R1958D,229
C                                   CONSTANTS                               R1958D,230
C                                                                           R1958D,231
      CON5=1./16.5                                                          R1958D,232
      CON6=1./6.                                                            R1958D,233
      CON7=1./7.                                                            R1958D,234
      CON9=1./9.                                                            R1958D,235
      CON17=1./17.                                                          R1958D,236
      CON8A=1./48.                                                          R1958D,237
      CON139=1./139.                                                        R1958D,238
C                                                                           R1958D,239
C                           READ INITIAL PARAMETER CARDS                    R1958D,240
C                                                                           R1958D,241
      READ 908,(ISI(J),J=1,22)                                              R1958D,242
      READ 700,IQB,MOB,IYEARB,IQE,MOE,IYEARE,IST,IEX,NNTS,                  R1958D,243
     1ISUM, IQ, ISTAGE, INDEX, LIM, IE,LIM1,IE1,IACUM                       R1958D,244
C                                                                           R1958D,245
C                                                                           R1958D,246
      READ 702,IML,IMH,IEL,IEH,IOL,IOH                                      R1958D,247
      READ 700,IUP,IASIUP                                                   R1958D,248
      READ 700,IDN,IASIDN                                                   R1958D,249
      READ 702,NS                                                           R1958D,250
      READ 702,NMH                                                          R1958D,251
      READ 702,NF                                                           R1958D,252
      READ 702,NO                                                           R1958D,253
C                                                                           R1958D,254
C                           PRINT INITIAL PARAMETER CARDS                   R1958D,255
C                                                                           R1958D,256
      PRINT 901,NNS                                                         R1958D,257
      PRINT 902,ISA                                                         R1958D,258
      PRINT 903,MAX                                                         R1958D,259
      PRINT 904,MIN                                                         R1958D,260
      PRINT 905,MLIM                                                        R1958D,261
      PRINT 906,(ISI(J),J=1,22)                                             R1958D,262
      PRINT 907,IQB,MOB,IYEARB,IQE,MOE,IYEARE,IST,IEX,NNTS,ISUM,IQ,         R1958D,263
     1ISTAGE+24000,INDEX,LIM,IE,LIM1,IE1,IACUM                              R1958D,264
      PRINT 912,IML,IMH,IEL,IEH,IOL,IOH                                     R1958D,265
      PRINT 913,IUP,IASIUP                                                  R1958D,266
      PRINT 914,IDN,IASIDN                                                  R1958D,267
      PRINT 915,NS                                                          R1958D,268
      PRINT 916,NMH                                                         R1958D,269
      PRINT 917,NF                                                          R1958D,270
      PRINT 918,NO                                                          R1958D,271
      RETURN                                                                R1958D,272
C                                                                           R1958D,273
C                                   INITIALIZATIONS                         R1958D,274
C                                                                           R1958D,275
   98 III = 3                                                               R1958D,276
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AFA-36

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                NSSMM=0                                                  R1958D.277
                NSF=0                                                    R1958D.278
                NSO=0                                                    R1958D.279
                DO 96 J=1,12                                             R1958D.280
      280       NSSMM=NSSMM+NS(J)*NMM(J)                                 R1958D.281
             96 CONTINUE                                                 R1958D.282
                DO 97 J=1,48                                             R1958D.283
                NSF=NSF+NF(J)                                            R1958D.284
                NSO=NSO+NO(J)                                            R1958D.285
      285    97 CONTINUE                                                 R1958D.286
                IJK=1                                                    R1958D.287
                IX=48                                                    R1958D.289
                NTS(48)=NNTS                                             R1958D.290
                ISTAGE=ISTAGE-24000                                      R1958D.291
      290       CALL ROUND(ISTAGE-IACUM*.3125,ISTAG1)                    R1958D.292
                STAG1=.00125*ISTAG1+240.                                 R1958D.293
                PRINT 800,IYEAR8                                         FFIX,16
                C                                                        R1958D.295
                C                    PRINT PREVIOUS SUPPLY INDICATORS    R1958D.296
      295       C                                                        R1958D.297
                DO 200 J = 1,13                                          R1958D.298
                PRINT 703,ISI(J)                                         R1958D.299
             200 CONTINUE                                                R1958D.300
                L = 9                                                    R1958D.301
      300       ISIT=ISI(14)-ISI(2)                                      R1958D.302
                PRINT 703,ISI(14),ISIT                                   R1958D.303
                DO 201 J = 15,22                                         R1958D.304
                IFF(L)=ISI(J)-ISI(J-12)                                  R1958D.305
                PRINT     703,ISI(J),IFF(L)                              R1958D.306
      305       L = L - 1                                                R1958D.307
             201 CONTINUE                                                R1958D.308
                C                                                        R1958D.309
                C                    FIRST LINE CALCULATIONS             R1958D.310
                C                                                        R1958D.311
      310       CALL ROUND((NNTS-LIM)*.3125,INK)                         R1958D.312
                IMS=IST*CON+.5                                           R1958D.313
                IS = IMS -NMS(IX)                                        R1958D.314
                ITOT = IS + ISUM                                         R1958D.315
                IFF (1) = IS - ISI (1)                                   R1958D.316
      315       MAXP = MAX (IX )                                         R1958D.317
                MINP = MIN (IX )                                         R1958D.318
                IQ2=IQ+ISA(IX)                                           R1958D.319
                ISTOR=NNTS-LIM                                           R1958D.320
                JSTAGE=24000+ISTAGE                                      R1958D.321
      320       JSTAG1=24000+ISTAG1                                      R1958D.322
                IQR=IQR                                                  R1958D.323
                IS=ON                                                    R1958D.324
                IC=LIM                                                   R1958D.325
                XNK=INK                                                  R1958D.326
      325       XSTAGE=JSTAGE                                            R1958D.327
                XSTAG1=JSTAG1                                            R1958D.328
                PRINT 805,MAXP,MINP,IQR,MON(I),NTS(IX),IST,IMS,NMS(IX),IS,IFF(1), R1958D.329
               1ISUM,ITOT,IQ,ISA(IX),IQ2,LIM,IC(IE),IQ3,ISTOR,XNK,XSTAGE,XSTAG1 R1958D.330
                L = 0                                                    R1958D.331
      330       M = 24                                                   R1958D.332
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      IQ1 = LIM                                                          R1958D.333
      IS1 (23) = IS                                                      R1958D.334
      RETURN                                                             R1958D.335
C                                                                        R1958D.336
C                                READ IN SUPPLIES                        R1958D.337
C                                READ ONTARIO ICE                        R1958D.338
C                    READ ONTARIO-ST. LOUIS OUTFLOW DIFFERENCES          R1958D.339
C                              READ DEVIATIONS FROM PLAN                 R1958D.340
   80 READ  (66,1000) IYR, NRS, ICE, IFLO, IDIS                          R1958D.341
      M2=48                                                              R1958D.342
      IF(IY-IRY)301,301,302                                              R1958D.343
  301 M1=MDR*4+1                                                         R1958D.344
      IF(M1-48)303,303,302                                               R1958D.345
  302 M1=1                                                               R1958D.346
  303 IF(IY-IEY)305,304,304                                              R1958D.347
  304 M2=MDE*4                                                           R1958D.348
C                                                                        R1958D.349
C                        BEGINNING OF LOOP FOR EACH PERIOD               R1958D.350
C                                                                        R1958D.351
  305 DO 300 J=M1,M2                                                     R1958D.352
      BOO(J)=ISTAG1*0.01+240.0                                           R1958D.353
      ISTAG = ISTAGE                                                     R1958D.354
      IX=J                                                               R1958D.355
      I=(IX-1)/4+1                                                       R1958D.356
C                                                                        R1958D.357
C                           COMPUTE NET TOTAL SUPPLIES                   R1958D.358
C                                                                        R1958D.359
      NTSO(IX)=IES(IX)+NRS(IX)                                           EFIX,11
C                                                                        R1958D.361
C                           CHANGE NTS FROM MCFS TO TCFS                 R1958D.362
C                                                                        R1958D.363
      CALL ROUND(NTSO(IX)*0.1,NTS(IX))                                   EFIX,12
C                                                                        R1958D.366
C                           FIND BASIC RULE CURVE FLOW                   R1958D.367
C                                                                        R1958D.368
      IF (ITOT +17)482,482,9                                             R1958D.369
C                                                                        R1958D.370
C                     BASIC RULE CURVE EQUATIONS FEBUARY-JULY            R1958D.371
C                                                                        R1958D.372
  482 IQAD = 4* (35 + ITOT)                                              R1958D.373
      GO TO 490                                                          R1958D.374
    9 IF (ITOT +15)483,483,10                                            R1958D.375
  483 IQAD = 72 + 3 *(17+ITOT)                                           R1958D.376
      GO TO 490                                                          R1958D.377
   10 IQAD = 78 + (15 + ITOT)                                            R1958D.378
C                                                                        R1958D.379
C                     BASIC RULE CURVE EQUATIONS AUGUST-JANUARY          R1958D.380
C                                                                        R1958D.381
  490 IF (ISTAG  - 380)493,493,494                                       R1958D.382
  493 IF (  29-IX       ) 496,496,492                                    R1958D.383
  492 IF ( IX-   4) 496,496,494                                          R1958D.384
  494 IQ=.2*ISTAG +71.5                                                  R1958D.385
      GO TO 495                                                          R1958D.386
  496 IQ = ISTAGE - 233                                                  R1958D.387
C                                                                        R1958D.388
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A.A. 38

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                C                                  BASIC FLOW                                          R1958D.389
                C                                                                                      R1958D.390
                  895 IQ = IQ + IQAD                                                                   R1958D.391
                      IQ=IQ+I11F(NSS*M,IMM,NSE,IEM,NSO,JOM,ITOT,IASIUP)*IUP(I)                         R1958D.392
      390             IQ=IQ+I11F(IML,NSS*M,IEL,NSE,IOL,NSO,IASIDN,ITOT)*IDN(I)                         R1958D.393
                      NSE=NSE+*BSFQ(IX)*NF(IX)                                                         R1958D.394
                      NSO=NSO+*BS(IX)*ND(IX)                                                           R1958D.395
                C     THE NEXT TWO CARDS SHOULD BE REMOVED FOR UNLIMITED FLOW                          R1958D.396
                      IF(IQ-330)498,498,497                                                            R1958D.397
      395           497 IQ=330                                                                         R1958D.398
                C                                                                                      R1958D.399
                C                                ADJUSTED FLOW                                         R1958D.400
                C                                                                                      R1958D.401
                  498 IQ2 = IQ + ISA (IX)                                                              R1958D.402
      400             IF (LIM1) 4,4,11                                                                 R1958D.403
                C                                                                                      R1958D.404
                C                          USE VALUES READ IN FOR SECOND LINE                          R1958D.405
                C                                                                                      R1958D.406
                   11 IQ1=LIM1                                                                         R1958D.407
      405          LIM=LIM1                                                                           R1958D.408
                   IE = IE1                                                                           R1958D.409
                   LIM1 = 0                                                                           R1958D.410
                   GO TO 59                                                                           R1958D.411
                C                                                                                      R1958D.412
      410       C                          CALCULATION OF MAXIMUM LIMITATION                           R1958D.413
                C                                                                                      R1958D.414
                C                                                                                      R1958D.415
                C                                L LIMITATION                                          R1958D.416
                C                                                                                      R1958D.417
      415          4 ISTAGE=ISTAG                                                                      GFIX,1
                C                                                                                      R1958D.419
                C                            JANUARY TO DECEMBER                                       R1958D.420
                C                                                                                      R1958D.421
                   IF(ISTAGE -297)4001,4001,12                                                         R1958D.422
      420       4001 MAXL = 210                                                                      R1958D.423
                   GO TO 3999                                                                         R1958D.424
                  12 IF(ISTAGE -338)4002,4002,13                                                       R1958D.425
                4002 MAXL=(   ISTAGE + 1173.)*CON  7+.5                                                R1958D.426
                   GO TO 3999                                                                         R1958D.427
      425          C                                                                                  R1958D.428
                C                                  JANUARY                                           R1958D.429
                C                                                                                      R1958D.430
                  13 IF(IX -5) 4003,4004,18                                                            R1958D.431
                C     MAKE THE FOLLOWING OBVIOUS SUBSTITUTIONS FOR INCREASING THE L                    R1958D.432
      430       C                 LIMIT IN JANUARY                                                     R1958D.433
                C4003 IF(ISTAGE-472)4002,4002,18                                                       R1958D.434
                C  18 MAXL=385                                                                         R1958D.435
                4003 IF (ISTAGE -367) 4002,4002,18                                                     R1958D.436
                  18 MAXL = 220                                                                        R1958D.437
      435          GO TO 3999                                                                         R1958D.438
                C                                                                                      R1958D.439
                C                            FIRST QUARTER OF FEBUARY                                  R1958D.440
                C                                                                                      R1958D.441
                C     MAKE THE FOLLOWING OBVIOUS SUBSTITUTIONS IN ORDER TO INCREASE THE L              R1958D.442
      440       C          L LIMIT FOR FEBURARY                                                        R1958D.443
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A.A. 39

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      C4004 IF(ISTAGE-379)4010,4010,19                                  R195AD.444
      C  19 MAXL=245                                                    R195AD.445
       4004 IF (ISTAGE -362) 4006,4006,19                               R195AD.446
       4006 MAXL = ISTAGE + 122                                         R195AD.447
  445       GO TO 3999                                                  R195AD.448
         19 MAXL = 240                                                  R195AD.449
            GO TO 3999                                                  R195AD.450
      C                                                                 R195AD.451
      C                     SECOND AND THIRD QUARTER OF FEBUARY         R195AD.452
  450 C                                                                 R195AD.453
         20 IF( IX - 8 )21,4011,4011                                    R195AD.454
       4005 IF (ISTAGE - 443) 4010,4010,20                              R195AD.455
       4010 IF (ISTAGE - 364)4006,4006,4012                             R195AD.456
       4012 MAXL=( 4.*ISTAGE+ 2648.)*CON17 + 0.5                        R195AD.457
  455       GO TO 3999                                                  R195AD.458
         21 MAXL = 260                                                  R195AD.459
            GO TO 3999                                                  R195AD.460
      C                                                                 R195AD.461
      C                     FOURTH QUARTER OF FEBUARY AND MARCH         R195AD.462
  460 C                                                                 R195AD.463
         14 IF (IX-12)4005,4005 ,4013                                   R195AD.464
       4011 IF (ISTAGE - 528) 4012,4012,22                              R195AD.465
         22 MAXL = 280                                                  R195AD.466
            GO TO 3999                                                  R195AD.467
  465 C                                                                 R195AD.468
      C                              APRIL TO DECEMBER                 R195AD.469
      C                                                                R195AD.470
       4013 IF (ISTAGE -402)4006,4006,15                                R195AD.471
         15 IF(ISTAGE -457)4007,4007,16                                 R195AD.472
  470  4007 CALL ROUND((13.*ISTAGE+8214.)*CON88,MAXL)                   R195AD.473
            GO TO 3999                                                  R195AD.474
      C     MAKE THE FOLLOWING SUBSTITUTION IN ORDER TO EXTEND THE L CURVE R195AD.475
      C  16 CONTINUE                                                    R195AD.476
         16 IF(ISTAGE -596)4008,4008,17                                 R195AD.477
  475  4008 MAXL=(15.*ISTAGE+34150.)*CON139+.5                          R195AD.478
            GO TO 3999                                                  R195AD.479
         17 MAXL =310                                                   R195AD.480
      C                                                                 R195AD.481
      C                                P LIMITATION                     R195AD.482
  480 C                                                                 R195AD.483
       3999 IF(MAXP)43,43,23                                            R195AD.484
         23 IF (15 -IX)61,61,62                                         R195AD.485
      C                                                                 R195AD.486
      C                              CHECK ST. LOUIS FLOW               R195AD.487
  485 C                                                                 R195AD.488
         61 IF(IQ1+IFLO(IX-1)-345)43,43,62                              R195AD.489
         62 MAXP1 = MAXP + ISI (K - 1)                                  R195AD.490
            IE=5                                                        R195AD.491
            LIM = MAXP1                                                 R195AD.492
  490       IF (LIM - MAXL) 46,46,43                                    R195AD.493
         43 IE = 5                                                      R195AD.494
            LIM = MAXL                                                  R195AD.495
      C                                                                 R195AD.496
      C                                I LIMITATION                     R195AD.497
  495 C                                                                 R195AD.498
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                  46 IF (47 - IX)47,47,58                                          R1958D.499
                  47 IF(INDEX)58,58,319                                            R1958D.500
                 319 IF(LIM-280+IFLO(IX))58,58,7030                                R1958D.501
                7030 LIM=280-IFLO(IX)                                              R1958D.502
     500            IE = 1                                                         R1958D.503
                  58 MAXLIM=LIM                                                    R1958D.504
                     MAXE=IE                                                       R1958D.505
                C                                                                  R1958D.506
                C                    CALCULATION OF MINIMUM LIMITATION             R1958D.507
     505        C                                                                  R1958D.508
                C                                                                  R1958D.509
                C                              M LIMITATION                        R1958D.510
                C                                                                  R1958D.511
                     ML=MLIM(I)                                                    R1958D.512
     510        C                                                                  R1958D.513
                C                          SEE IF MAX APPLIES                      R1958D.514
                C                                                                  R1958D.515
                     IF(LIM-102)85,85,25                                           R1958D.516
                  85 IF(LIM-ML)169,169,106                                         R1958D.517
     515         169 IQ1=ML                                                       R1958D.518
                     LIM=ML                                                        R1958D.519
                     IE=4                                                          R1958D.520
                     GO TO 59                                                      R1958D.521
                  25 LIM=ML                                                        R1958D.522
     520             IE=4                                                          R1958D.523
                C                                                                  R1958D.524
                C                          P* LIMITATION                           R1958D.525
                C                                                                  R1958D.526
                     IF(MINP)53,53,353                                             R1958D.527
     525         353 CALL ROUND( IFLO(IX+1)*CON6,LPSTAR)                          R1958D.528
                     LPSTAR=225-LPSTAR                                             R1958D.529
                     IF(LPSTAR-ISI(K+1)-MINP)50,50,28                              R1958D.530
                  50 IF(LPSTAR-LIM)53,53,102                                       R1958D.531
                 102 LIM=LPSTAR                                                    R1958D.532
     530             GO TO 57                                                      R1958D.533
                  28 IF (MINP + ISI(K+1) -LIM) 53,53,29                            R1958D.534
                  29 LIM = MINP+ ISI (K +1)                                        R1958D.535
                  57 IE=6                                                          R1958D.536
                C                                                                  R1958D.537
     535        C                    CHECK TO SEE IF MAX IS LESS THAN MIN          R1958D.538
                C                                                                  R1958D.539
                     IF(MAXLIM-LIM)291,53,53                                       R1958D.540
                C                                                                  R1958D.541
                C                    CHECK TO SEE IF MAX IS LESS THAN M            R1958D.542
     540        C                                                                  R1958D.543
                 291 IF(MAXLIM-ML)169,169,282                                      R1958D.544
                 282 IQ1=MAXLIM                                                    R1958D.545
                     LIM=MAXLIM                                                    R1958D.546
                     IE=MAXE                                                       R1958D.547
     545             GO TO 59                                                      R1958D.548
                C                                                                  R1958D.549
                C                          SEE IF MIN APPLIES                      R1958D.550
                C                                                                  R1958D.551
                  53 IF(IQ2-LIM)269,269,30                                         R1958D.552
     550        C                                                                  R1958D.553
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C                                  J LIMITATION                                  R195AD.554
C                                                                                R195AD.555
C                                 J+ LIMITATION                                  R195AD.556
C                                                                                R195AD.557
C                        CHECK TO SEE IF J+ IS LESS THAN MAX                     R195AD.558
C                                                                                R195AD.559
  106 IF(IQ1+20-LIM)284,284,69                                                   R195AD.560
   30 IF(IQ2-20-IQ1)822,822,822                                                  R195AD.561
C                                                                                R195AD.562
C                        CHECK TO SEE IF J+ IS LESS THAN MIN                     R195AD.563
C                                                                                R195AD.564
  822 IF(IQ1+20-LIM)69,69,284                                                    R195AD.565
  284 IQ1=IQ1+20                                                                 R195AD.566
      LIM=IQ1                                                                    R195AD.567
      IE=2                                                                       R195AD.568
      GO TO 59                                                                   R195AD.569
C                                                                                R195AD.570
C                                  J- LIMITATION                                 R195AD.571
C                                                                                R195AD.572
   82 IF(IQ1-20-IQ2)81,811,811                                                   R195AD.573
C                                                                                R195AD.574
C                        CHECK TO SEE IF J- IS LESS THAN MAX                     R195AD.575
C                                                                                R195AD.576
  811 IF(IQ1-20-MAXLIM)84,84,282                                                 R195AD.577
C                                                                                R195AD.578
C                        CHECK TO SEE IF J- IS LESS THAN MIN                     R195AD.579
C                                                                                R195AD.580
  269 IF(IQ1-20-LIM)69,84,84                                                     R195AD.581
   84 IQ1=IQ1-20                                                                 R195AD.582
      LIM=IQ1                                                                    R195AD.583
      IE=2                                                                       R195AD.584
      GO TO 59                                                                   R195AD.585
   69 IQ1 = LIM                                                                  R195AD.586
      GO TO 59                                                                   R195AD.587
C                                                                                R195AD.588
C                                 NO LIMITATION                                  R195AD.589
C                                                                                R195AD.590
C                                                                                R195AD.591
   81 IQ1=IQ2                                                                    R195AD.592
      LIM=IQ2                                                                    R195AD.593
      IF = 7                                                                     R195AD.594
C                                                                                R195AD.595
C            FLOW HAS BEEN SET - NOW PERFORM STORAGE COMPUTATIONS                R195AD.596
C                                                                                R195AD.597
   59 ISTOR = NTS (IX) -IQ1                                                      R195AD.598
      ISTAGE = ISTAG                                                             R195AD.599
      IQ3=IQ1+IDIS(IX)*IFD                                                       R195AD.600
      IACUM=IACUM+IDIS(IX)*IFD                                                   R195AD.601
      CALL ROUND((NTSO(IX)-IQ1*10-IACUM*10)*.03125,INK)                          R195AD.602
      ISTAG1 =ISTAGE*INK                                                         R195AD.603
      CALL ROUND((NTSO(IX)-IQ1*10          )*.03125,INK)                         R195AD.604
      ISTAGE = ISTAGE + INK                                                      R195AD.605
C                                                                                R195AD.606
C                              UPDATE SUPPLY INDICATORS                          R195AD.607
```

```
                      OQF(J)=IQ3                                                R1958D.664
                      SLQF(J)= OQF(J)+IFLO(J)                                   R1958D.665
                      OQMS(J)=(RNQ(J)+ISTAG1*0.01*240.0)*.5                     R1958D.666
                      IXV=IX-4*(IX/4)                                           R1958D.667
                 665  IF(IXV-1)852,853,855                                      R1958D.668
                C                                                               R1958D.669
                C                     LAST QUARTER COMPUTATION                  R1958D.670
                C                                                               R1958D.671
                  852 NSSMM=NSSMM+NRSUL(I,1)+NRSUL(I,2)-NS(I)-NMM(I)            R1958D.672
                 670  STAGE(I)=STAGE(I)+.00125*ISTAG1                           R1958D.673
                      STAG1=.00125*ISTAG1+240.                                  R1958D.674
                      GO TO 856                                                 R1958D.675
                C                                                               R1958D.676
                C                     FIRST QUARTER COMPUTATION                 R1958D.677
                 675  C                                                         R1958D.678
                  853 OUT(I)=0.                                                 R1958D.679
                      EOI(I)=.01*ISTAG1+240.                                    R1958D.680
                      STAGE(I)=.0025*ISTAG1+STAG1                               R1958D.681
                      GO TO 856                                                 R1958D.682
                 680  C                                                         R1958D.683
                C                     MONTHLY MEAN STAGES AND FLOWS             R1958D.684
                C                                                               R1958D.685
                  855 STAGE(I)=STAGE(I)+.0025*ISTAG1                            R1958D.686
                  856 OUT(I)=OUT(I)+.25*IQ3                                     R1958D.687
                 685  C                                                         R1958D.688
                C                     DEVIATIONS FROM PLAN                      R1958D.689
                C                                                               R1958D.690
                C                  FROM 1900-1959 NO DEVIATIONS                 R1958D.691
                C            FROM JANUARY 1960 TO MARCH 1965 ACCUMULATE DEVIATIONS R1958D.692
                 690  C                IN THE FIRST QUARTER OF APRIL 1965       R1958D.693
                C                 SET ACCUMULATED DEVIATIONS TO ZERO AND,       R1958D.694
                C                    SET PLAN STAGE TO ACTUAL STAGE             R1958D.695
                C                    IN THE FIRST QUARTER OF JULY 1975          R1958D.696
                C                 SET ACCUMULATED DEVIATIONS TO ZERO AND,       R1958D.697
                 695  C                SET PLAN STAGE TO ACTUAL STAGE           R1958D.698
                C                                                               R1958D.699
                      IF(IY-1965)851,857,858                                    FFIX.17
                  858 IF(IY-1975)851,859,860                                    FFIX.18
                  860 IF(IY-1977)851,862,861                                    FFIX.19
                 700  861 IF(IY-1978)851,859,851                               FFIX.20
                  862 IF(IX-22)851,858,851                                      FFIX.21
                  859 IF(IX-24)851,854,851                                      R1958D.702
                  857 IF(IX-12)851,858,851                                      R1958D.703
                  854 ISTAGE=ISTAG1                                             R1958D.704
                 705  IA CUM=0                                                  R1958D.705
                      GO TO 851                                                 R1958D.706
                C                                                               R1958D.707
                C                     UPDATE FLOW FOR J LIMITATION              R1958D.708
                C                                                               R1958D.709
                 710  851 IQ=IQ1                                                R1958D.710
                      K = K + 1                                                 R1958D.711
                  300 CONTINUE                                                  R1958D.712
                C                                                               R1958D.713
                C                     END OF YEAR COMPUTATIONS                  R1958D.714
                 715  C                                                         R1958D.715
```

PRINTING PAGE PLANE-AIRE FILMS

AFA. 44

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                      DO 743 MKL=1,12                                                    R195AD.716
                      OE2(MKL)=STAGE(MKL)                                                R195AD.717
                      OO2(MKL)=OUT(MKL)                                                  R195AD.718
                  743 CONTINUE                                                           R195AD.719
      720             DO 656 I=1,12                                                      R195AD.720
                      NS(I)=NRSUL(I,1)                                                   R195AD.721
                      NMM(I)=NRSUL(I,2)                                                  R195AD.722
                  656 CONTINUE                                                           R195AD.723
                      DO 657 I=1,48                                                      R195AD.724
      725             OE(I)=NRSEQ(I)                                                     R195AD.725
                      NO(I)=NRS(I)                                                       R195AD.726
                  657 CONTINUE                                                           R195AD.727
                      OUT(I) = 0.0                                                       R195AD.728
                C                                                                        R195AD.730
      730       C                        READ SAINT LOUIS ICE                            R195AD.731
                C                                                                        R195AD.732
                      READ (66,910) IYR,ICESL                                            R195AD.733
                C                                                                        R195AD.734
                C                        COMPUTE SAINT LOUIS STAGES                      R195AD.735
      735       C                                                                        R195AD.736
                      DO 658 I=1,12                                                      R195AD.737
                      DO 658 J=1,4                                                       R195AD.738
                      MM(I-1)*4+J                                                        R195AD.739
                      MSL(M)=((SLQF(M)+ICESL(I)+0.1)/5.626A)**POW+54.29                  R195AD.740
      740         658 CONTINUE                                                           R195AD.741
                      DO 705 I=1,4                                                       R195AD.742
                      NM=12*(I-1)+1                                                      R195AD.743
                      MN=NM+11                                                           R195AD.744
                      WRITE (94,1002)I,IY,(IES(J),J=NM,MN)                               EFIX.13
      745             WRITE (95,911)(OQF(J),J=NM,MN),5,I,IY                              R195AD.745
                      WRITE (96,911)(SLQF(J),J=NM,MN),19,I,IY                            R195AD.746
                      WRITE (97,911)(BOQ(J),J=NM,MN),4,I,IY                              R195AD.747
                      WRITE (98,911)(OQMS(J),J=NM,MN),1,I,IY                             R195AD.748
                      WRITE(90,911)(MSL(J),J=NM,MN),18,I,IY                              R195AD.749
      750         705 CONTINUE                                                           R195AD.750
                      DO 3333 KL=1,12                                                    R195AD.751
                      MVP= K-13+KL                                                       R195AD.752
                      ISI(KL)=ISI(MVP)                                                   R195AD.753
                  3333 CONTINUE                                                          R195AD.754
      755             K=13                                                               R195AD.755
                      RETURN                                                             R195AD.756
                C                                                                        R195AD.757
                C                        FORMAT STATEMENTS                               R195AD.758
                C                                                                        R195AD.759
      760         700 FORMAT (12I5,5I3,I5)                                               R195AD.760
                  702 FORMAT(12I5)                                                       R195AD.761
                  703 FORMAT (38X,I5,1X,I4)                                              R195AD.762
                  800 FORMAT ( 36X,   37HLAKE ONTARIO REGULATION - PLAN 1958-D ,        R195AD.763
                     1       4X,4HYEAR I5/1AX4HLAKE23X4HCHAN7X11HAND J,  BASIC/18X11HONT,R195AD.764
      765            110,50 6X13HNORM SUP,  INAX32HSUP,   RULE SEA,  SEA, APP, FLO=4X5HDR195AD.765
                     1ELTA8X14HEND OF QUARTER/9X14HQUARTER SUPPLY6X7HX  WT,S WT,S IND, R195AD.766
                     1IND,  ADJM IND,  CURVE ADJM, ADJD LTH, COMP   STORAGE10X5HLEVEL/99R195AD.767
                     1H  MAX MTH ENDING  TCFS  WT,S, TCFS TCFS TCFS TCFS  TCFS TCFS   TCR195AD.768
                     1FS TCFS  TCFS TCFS TCFS TCFS   FT,5X4HFEET4X4HFEET  )             R195AD.769
      770         805 FORMAT (/2I4, I5,1XA3,I6,I7,4I5,I6,I5,I8,3I5,A3,I4,I5,-2PF7.2,F8.2R195AD.770
```

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     1,F7.2)                                                                    R195AD.771
 901 FORMAT ( /25H NORMAL WEIGHTED SUPPLIES / (26I5) )                          R195AD.772
 902 FORMAT ( /20H SEASONAL ADJUSTMENT      / (26I5) )                          R195AD.773
 903 FORMAT ( /21H MAXIMUM P LIMITATION     / (26I5) )                          R195AD.774
 904 FORMAT ( /21H MINIMUM P LIMITATION     / (26I5) )                          R195AD.775
 905 FORMAT ( /13H M LIMITATION             / (26I5) )                          R195AD.776
 906 FORMAT ( /17H SUPPLY INDICATOR         / (26I5) )                          R195AD.777
 907 FORMAT ( /18H INITIAL WEEK DATA        / (26I5) )                          R195AD.778
 908 FORMAT ( 22I3)                                                             R195AD.779
 910 FORMAT(9X,I4,7X,12I5)                                                      R195AD.780
 911 FORMAT(12F6.2,I3,I1,I4)                                                    R195AD.781
 912 FORMAT( /30H INCREASING AND DECREASING INDICES /(26I5)  )                  R195AD.782
 913 FORMAT( /40H INCREASE TO FLOW AND INCREASING SUPPLY INDICATOR              R195AD.783
    1/(26I5)  )                                                                 R195AD.784
 914 FORMAT( /40H DECREASE TO FLOW AND DECREASING SUPPLY INDICATOR              R195AD.785
    1/(26I5)  )                                                                 R195AD.786
 915 FORMAT( /31H PREVIOUS YEARS SUPERIOR SUPPLY  /( 26I5)  )                   R195AD.787
 916 FORMAT( /28H PREVIOUS YEARS HURON SUPPLY     /( 26I5)  )                   R195AD.788
 917 FORMAT( /27H PREVIOUS YEARS ERIE SUPPLY      /( 26I5)  )                   R195AD.789
 918 FORMAT( /30H PREVIOUS YEARS ONTARIO SUPPLY   /( 26I5)  )                   R195AD.790
1000 FORMAT(9X,I4,7X,12I5/(20X12I5))                                            R195AD.791
1001 FORMAT(16I5)                                                               R195AD.792
1002 FORMAT( I9,I4,7X,12I5)                                                     EFIX.14
     END                                                                        R195AD.793
```

A.A. 46

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
1 R19SAD

VARIABLES	SN	TYPE		RELOCATION					
366	AVEE	REAL			/ /	364	AVEMH	REAL		/ /
365	AVESC	REAL			/ /	3553	BOO	REAL	ARRAY	
2302	CON	REAL				2310	CON139	REAL		
2306	CON17	REAL				2307	CONAR	REAL		
2303	CON6	REAL				2304	CON7	REAL		
2305	CON9	REAL				170	EE1	REAL	ARRAY	/ /
40	EE2	REAL	ARRAY		/ /	154	EM1	REAL	ARRAY	/ /
204	EO1	REAL	ARRAY		/ /	74	EO2	REAL	ARRAY	/ /
140	ES1	REAL	ARRAY		/ /	30	HE2	REAL	ARRAY	/ /
44	HO2	REAL	ARRAY		/ /	4053	HSL	REAL	ARRAY	
2370	I	INTEGER				2333	IACUM	INTEGER		
2343	IASIDN	INTEGER				2342	IASTUP	INTEGER		
301	IBV	INTEGER			/ /	2623	IC	INTEGER	ARRAY	
3343	ICE	INTEGER	ARRAY			3537	ICESL	INTEGER	ARRAY	
3303	IDTS	INTEGER	ARRAY			4147	IDW	INTEGER	ARRAY	
2330	IE	INTEGER				2337	IEH	INTEGER		
2336	IEL	INTEGER				220	IES	INTEGER	ARRAY	/ /
2321	IEX	INTEGER				302	IEV	INTEGER		/ /
2332	IF1	INTEGER				2772	IFF	INTEGER	ARRAY	
3173	IFLO	INTEGER	ARRAY			300	IFO	INTEGER		/ /
2412	II	INTEGER				1340	III	INTEGER		
2347	IJK	INTEGER				2335	IMH	INTEGER		
2334	IML	INTEGER				2326	INDEX	INTEGER		
2355	INK	INTEGER				2341	IOH	INTEGER		
2340	IOL	INTEGER				2324	IQ	INTEGER		
2403	IQAD	INTEGER				2312	IQH	INTEGER		
2315	IQE	INTEGER				2367	IQR	INTEGER		
2376	IQ1	INTEGER				2363	IQ2	INTEGER		
2371	IQ3	INTEGER				2357	IS	INTEGER		
2712	ISA	INTEGER	ARRAY			2503	ISI	INTEGER	ARRAY	
2354	ISIT	INTEGER				2320	IST	INTEGER		
2402	ISTAG	INTEGER				2325	ISTAGE	INTEGER		
2351	ISTAG1	INTEGER				2364	ISTOR	INTEGER		
2323	ISUM	INTEGER				2360	ITOT	INTEGER		
4133	IUP	INTEGER	ARRAY			2356	IWS	INTEGER		
2350	IX	INTEGER				2414	IXV	INTEGER		
303	IY	INTEGER			/ /	2314	IYEARB	INTEGER		
2317	IYEARE	INTEGER				2377	IYR	INTEGER		
2311	J	INTEGER				2365	JSTAGE	INTEGER		
2346	JSTAG1	INTEGER				2375	K	INTEGER		
2421	KL	INTEGER				2353	L	INTEGER		
2327	LIM	INTEGER				2331	LIM1	INTEGER		
2411	LPSTAR	INTEGER				2416	M	INTEGER		
3003	MAX	INTEGER	ARRAY			2407	MAXF	INTEGER		
2404	MAXL	INTEGER				2406	MAXLIM	INTEGER		
2361	MAXP	INTEGER				2405	MAXP1	INTEGER		
3043	MIN	INTEGER	ARRAY			2362	MINP	INTEGER		
2415	ML	INTEGER				2410	ML	INTEGER		

VARIABLES	SN	TYPE		RELOCATION					
3143	MLIM	INTEGER	ARRAY		2420	MN	INTEGER		
2313	MOR	INTEGER			2316	MOE	INTEGER		
3157	MON	INTEGER	ARRAY		2422	MVP	INTEGER		
2001	M1	INTEGER			2400	M2	INTEGER		
2423	NBS	INTEGER	ARRAY		304	NBSEQ	INTEGER	ARRAY	/ /
347	NBSUL	INTEGER	ARRAY	/ /	4213	NE	INTEGER	ARRAY	
2417	NM	INTEGER			4177	NMM	INTEGER	ARRAY	
2322	NNTS	INTEGER			4273	NO	INTEGER	ARRAY	
4163	NS	INTEGER	ARRAY		2345	NSE	INTEGER		
2346	NSO	INTEGER			2344	NSSMM	INTEGER		
3457	NTS	INTEGER	ARRAY		3377	NTSO	INTEGER	ARRAY	
2632	NWS	INTEGER	ARRAY		110	OE2	REAL	ARRAY	/ /
124	OO2	REAL	ARRAY	/ /	3713	OOF	REAL	ARRAY	
3633	OOMS	REAL	ARRAY		3267	OUT	REAL	ARRAY	
2301	POW	REAL			0	SE2	REAL	ARRAY	/ /
3773	SLOF	REAL	ARRAY		14	SO2	REAL	ARRAY	/ /
3253	STAGE	REAL	ARRAY		2352	STAG1	REAL		
2413	SUM	REAL			2372	XNK	REAL		
2373	XSTAGE	REAL			2374	XSTAG1	REAL		

FILE NAMES	MODE						
INPUT	FMT	OUTPUT	FMT	TAPE61	UNFMT	TAPE66	FMT
TAPE90	FMT	TAPE94	FMT	TAPE95	FMT	TAPE96	FMT
TAPE97	FMT	TAPE98	FMT				

EXTERNALS	TYPE	ARGS
ROUND		2

INLINE FUNCTIONS	TYPE	ARGS				TYPE	ARGS		
I11F	INTEGER	A	SF		I12F	INTEGER	2	SF	
MAXO	INTEGER	0	INTRIN		MINO	INTEGER	0	INTRIN	

STATEMENT LABELS									
436	8		324	9		332	10		
0	11	INACTIVE	442	12		452	13		
506	14		0	15	INACTIVE	527	16		
537	17		0	18	INACTIVE	465	19		
467	20		504	21		0	22	INACTIVE	
0	23	INACTIVE	603	25		623	28		
0	29	INACTIVE	646	30		0	37	INACTIVE	
0	38	INACTIVE	0	39	INACTIVE	554	43		
557	46		0	47	INACTIVE	0	50	INACTIVE	
640	53		627	57		570	58		
700	59		0	60		0	61	INACTIVE	
546	62		673	69		260	80		
675	81		657	82		667	84		
0	85	INACTIVE	106	94		0	96		
0	97		0	102	INACTIVE	643	106		
577	160		0	200		0	201		
664	269		634	282		653	284		
0	291	INACTIVE	0	300		0	301	INACTIVE	
271	302		272	303		0	304	INACTIVE	
276	305		0	319	INACTIVE	0	353	INACTIVE	
0	482	INACTIVE	0	483	INACTIVE	335	490		
0	492	INACTIVE	0	493	INACTIVE	343	494		

STATEMENT LABELS

352	695			350	696			0	697		INACTIVE
826	698			1015	500			0	501		INACTIVE
0	504		INACTIVE	1020	510			0	656		
0	657			0	658			2001	700	FMT	
2004	702	FMT		2006	703	FMT		0	705		
0	743			2011	800	FMT		2068	805	FMT	
0	811		INACTIVE	0	822		INACTIVE	1140	851		
0	852		INACTIVE	1074	853			1135	854		
1104	855			1110	856			1133	857		
0	858		INACTIVE	1130	859			0	860		INACTIVE
0	861		INACTIVE	1125	862			2074	901	FMT	
2101	902	FMT		2106	903	FMT		2113	904	FMT	
2120	905	FMT		2124	906	FMT		2130	907	FMT	
2135	908	FMT		2137	910	FMT		2142	911	FMT	
2145	912	FMT		2153	913	FMT		2163	914	FMT	
2173	915	FMT		2201	916	FMT		2207	917	FMT	
2214	918	FMT		2222	1000	FMT		2226	1001	FMT	
2230	1002	FMT		0	1003		INACTIVE	1010	1025		
775	1222			0	2005			0	2006		
746	2222			0	3100		INACTIVE	0	3333		
0	3997		INACTIVE	540	3999			0	4001		INACTIVE
848	4002			0	4003		INACTIVE	460	4004		
872	4005			462	4006			0	4007		INACTIVE
0	4008		INACTIVE	0	4010		INACTIVE	511	4011		
876	4012			515	4013			0	7030		INACTIVE

LOOPS	LABEL	INDEX	FROM-TO	LENGTH	PROPERTIES		
114	96	J	279 281	4R	INSTACK		
123	97	J	282 285	4R	INSTACK		
150	200	J	296 298	10R		EXT REFS	
165	201	J	302 306	14R		EXT REFS	
300	300	J	350 712	646R		EXT REFS	NOT INNER
743	60	II	610 612	2R	INSTACK		
756	2005	II	619 621	4R	INSTACK		
1001	2006	II	634 636	4R	INSTACK		
1150	743	MKL	716 719	4R	INSTACK		
1157	656	I	720 723	4R	INSTACK		
1166	657	I	724 727	4R	INSTACK		
1176	658	I	736 740	20R		EXT REFS	NOT INNER
1177	658	J	737 740	15R		EXT REFS	
1217	705	I	741 750	64R		EXT REFS	
1307	3333	KL	751 754	4R	INSTACK		

COMMON BLOCKS	LENGTH
/ /	283

STATISTICS

PROGRAM LENGTH 4353R 2283
SCM BLANK COMMON LENGTH 433R 283

61000R SCM USED

```
      SUBROUTINE PRTHCE ( NAM, MAXNCD, ITITLE, NCD )                    PRTHCE.2
C     08 OCT 1976                                                       PRTHCE.3
C                                                                       PRTHCE.4
C     PURPOSE -                                                         PRTHCE.5
C        PRINT STAGES AND OUTFLOWS FOR LAKES MICH HURON ST CLAIR ERIE   PRTHCE.6
C                                                                       PRTHCE.7
C     USAGE -                                                           PRTHCE.8
C        CALL    PRTHCE ( NAM, MAXNCD, ITITLE, NCD )                    PRTHCE.9
C                                                                       PRTHCE.10
C     DESCRIPTION OF PARAMETERS -                                       PRTHCE.11
C        NAM     -  INPUT VECTOR OF LENGTH 27 CONTAINING PROGRAM NAME   PRTHCE.12
C        MAXNCD  -  INPUT MAX NUMBER OF TITLE CARDS                     PRTHCE.13
C        ITITLE  -  INPUT VECTOR OF LENGTH 27 * NCD CONTAINING RUN TITLEPRTHCE.14
C        NCD     -  INPUT NUMBER OF TITLE CARDS                         PRTHCE.15
C                                                                       PRTHCE.16
C     REMARKS -                                                         PRTHCE.17
C        INPUT TAPE ON TP 60                                            PRTHCE.18
C                                                                       PRTHCE.19
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                   PRTHCE.20
C        PTITLE                                                         PRTHCE.21
C                                                                       PRTHCE.22
C     METHOD -                                                          PRTHCE.23
C                                                                       PRTHCE.24
C                                                                       PRTHCE.25
      ITP = 60                                                          PRTHCE.26
C                                                                       PRTHCE.27
C     RE-IND ITP                                                        PRTHCE.28
C                                                                       PRTHCE.29
   10 DO 60 KN=1,2                                                      PRTHCE.30
C                                                                       PRTHCE.31
      DO 60 KNO=1,6                                                     PRTHCE.32
C                                                                       PRTHCE.33
C     QUARTER MONTH STAGES AND OUTFLOWS                                 PRTHCE.34
C     ---------------------------------                                 PRTHCE.35
      DO 50 JNO=1,4                                                     PRTHCE.36
      READ (ITP     ) QAV1,QAV2,QAV3,EOPMH,QAV4,QAV5,QAV6,EOPSC,QAV7, PRTHCE.37
     1                QAV8,QAV9,EOPE,K,M1,IYR                          PRTHCE.38
      IF( 9999-IYR ) 20,70,20                                           PRTHCE.39
   20 IF(KNO+JNO-2) 40,30,40                                            PRTHCE.40
   30 CALL PTITLE ( 3, NAM, MAXNCD, ITITLE, NCD, III )                  PRTHCE.41
      PRINT 2010                                                        PRTHCE.42
   40 PRINT 2020,     QAV1,QAV2,QAV3,EOPMH,QAV4,QAV5,QAV6,EOPSC,QAV7, PRTHCE.43
     1                QAV8,QAV9,EOPE,K,M1,IYR                          PRTHCE.44
   50 CONTINUE                                                          PRTHCE.45
C                                                                       PRTHCE.46
C     MONTHLY STAGES AND OUTFLOWS                                       PRTHCE.47
C     ---------------------------                                       PRTHCE.48
      READ (ITP     ) XAV1,XAV2,XAV3,EOPMH,XAV4,XAV5,XAV6,EOPSC,XAV7, PRTHCE.49
     1                XAV8,XAV9,EOPE                                   PRTHCE.50
      PRINT 2030,     XAV1,XAV2,XAV3,EOPMH,XAV4,XAV5,XAV6,EOPSC,XAV7, PRTHCE.51
     1                XAV8,XAV9,EOPE                                   PRTHCE.52
   60 CONTINUE                                                          PRTHCE.53
C                                                                       PRTHCE.54
      GO TO 10                                                          PRTHCE.55
C                                                                       PRTHCE.56
```

```
      70 REWIND ITP                                                     PRTMCE.57
         RETURN                                                         PRTMCE.58
C                                                                       PRTMCE.59
C     FORMAT STATEMENTS                                                 PRTMCE.60
C     -----------------                                                 PRTMCE.61
 2010 FORMAT ( 20X,21H= MIDDLE LAKE ROUTING  /                    7X,19HLPRTMCE.62
     1AKE MICHIGAN-HURON,18X,14HLAKE ST. CLAIR,22X,9HLAKE ERIE//13X,3HAVPRTMCE.63
     1E,15X,3HEOP,13X,3HAVE,15X,3HEOP,13X,   3HAVE,15X,3HEOP/2X,4HNTS,,6PRTMCE.64
     1X,4HELEV,5X,3HO/F,6X,4HELEV,2X,4HNTS,6X,4HELEV,5X,3HO/F,6X,4HELEV,PRTMCE.65
     12X,4HNTS,,6X,4HELEV,5X,3HO/F6X,4HELEV4X,3HMON,2X,3HQTR,2X,4HYEAR/)PRTMCE.66
 2020 FORMAT ( 3(F6.1,F10.3,F8.1,F10.3),316 )                           PRTMCE.67
 2030 FORMAT ( /3(F6.1,F10.3,F8.1,F10.3)/ )                             PRTMCE.68
      END                                                               PRTMCE.69
```

AFAL 51

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 PRTMCE

VARIABLES	SN	TYPE	RELOCATION				
254	EOPE	REAL		244	EOPMM	REAL	
250	EOPSC	REAL		260	III	INTEGER	
0	ITITLE	INTEGER	F.P.	235	ITP	INTEGER	
257	IYR	INTEGER		240	JND	INTEGER	
255	K	INTEGER		236	KN	INTEGER	
237	KND	INTEGER		0	MAXNCD	INTEGER	F.P.
256	M1	INTEGER		0	NAM	INTEGER	F.P.
0	NCD	INTEGER	F.P.	241	QAV1	REAL	
242	QAV2	REAL		243	QAV3	REAL	
245	QAV4	REAL		246	QAV5	REAL	
247	QAV6	REAL		251	QAV7	REAL	
252	QAV8	REAL		253	QAV9	REAL	
261	XAV1	REAL		262	XAV2	REAL	
263	XAV3	REAL		264	XAV4	REAL	
265	XAV5	REAL		266	XAV6	REAL	
267	XAV7	REAL		270	XAV8	REAL	
271	XAV9	REAL					

FILE NAMES MODE
OUTPUT FMT

EXTERNALS TYPE ARGS
PTITLE 6

STATEMENT LABELS

11	10			0	20	INACTIVE		0	30	INACTIVE	
32	40			0	50			0	60		
50	70			171	2010	FMT		224	2020	FMT	
230	2030	FMT									

LOOPS	LABEL	INDEX	FROM-TO	LENGTH	PROPERTIES			
12	60	KN	29 52	35B	EXT REFS	EXITS	NOT INNER	
13	60	KND	31 52	32B	EXT REFS	EXITS	NOT INNER	
14	50	JND	35 44	23B	EXT REFS	EXITS		

STATISTICS
PROGRAM LENGTH 277B 191
61000B SCM USED

A.A. 52

```
      SUBROUTINE PRTONT ( NAM, MAXNCD, ITITLE, NCD )                    PRTONT,2
C     08 OCT 1976                                                       PRTONT,3
C                                                                       PRTONT,4
C     PURPOSE -                                                         PRTONT,5
C        PRINT STAGES AND OUTFLOWS FOR LAKE ONTARIO                     PRTONT,6
C                                                                       PRTONT,7
C     USAGE -                                                           PRTONT,8
C        CALL    PRTONT ( NAM, MAXNCD, ITITLE, NCD )                    PRTONT,9
C                                                                       PRTONT,10
C     DESCRIPTION OF PARAMETERS -                                       PRTONT,11
C        NAM     - INPUT VECTOR OF LENGTH 27 CONTAINING PROGRAM NAME    PRTONT,12
C        MAXNCD  - INPUT MAX NUMBER OF TITLE CARDS                      PRTONT,13
C        ITITLE  - INPUT VECTOR OF LENGTH 27 * NCD CONTAINING RUN TITLE PRTONT,14
C        NCD     - INPUT NUMBER OF TITLE CARDS                          PRTONT,15
C                                                                       PRTONT,16
C     REMARKS -                                                         PRTONT,17
C        INPUT FILE ON 61                                               PRTONT,18
C                                                                       PRTONT,19
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                   PRTONT,20
C        PTITLE                                                         PRTONT,21
C                                                                       PRTONT,22
C     METHOD -                                                          PRTONT,23
C                                                                       PRTONT,24
C                                                                       PRTONT,25
      ITP = 61                                                          PRTONT,26
C                                                                       PRTONT,27
      REWIND ITP                                                        PRTONT,28
C                                                                       PRTONT,29
   10 DO 50 I=1,24                                                      PRTONT,30
      READ (ITP     ) IY,MAXP,MINP,IYI,MON     ,NTS    ,IST,          PRTONT,31
     1    I=S, NNS     , IS, IFF   ,ISUM, ITOT, IQ, ISA    ,IQ2, LIM,IPRTONT,32
     1C      ,IQ3,ISTOR,INK,ISTAGE,ISTAG1                               PRTONT,33
      XNK=INK                                                           PRTONT,34
      XSTAGE=ISTAGE                                                     PRTONT,35
      XSTAG1=ISTAG1                                                     PRTONT,36
C                                                                       PRTONT,37
      IF( 9999-IY ) 20,60,20                                            PRTONT,38
   20 IF( 1-I )     40,30,40                                           PRTONT,39
C                                                                       PRTONT,40
C     PRINT TITLES                                                      PRTONT,41
C     ------------                                                      PRTONT,42
   30 CALL PTITLE ( 3, NAM, MAXNCD, ITITLE, NCD, III )                  PRTONT,43
      PRINT 2010, IY                                                    PRTONT,44
C                                                                       PRTONT,45
   40 PRINT 2020,          MAXP,MINP,IYI,MON     ,NTS    ,IST,        PRTONT,46
     1    I=S, NNS     , IS, IFF   ,ISUM, ITOT, IQ, ISA    ,IQ2, LIM,IPRTONT,47
     1C      ,IQ3,ISTOR,XNK,XSTAGE,XSTAG1                               PRTONT,48
   50 CONTINUE                                                          PRTONT,49
C                                                                       PRTONT,50
      GO TO 10                                                          PRTONT,51
C                                                                       PRTONT,52
   60 REWIND ITP                                                        PRTONT,53
      RETURN                                                            PRTONT,54
C                                                                       PRTONT,55
C     FORMAT STATEMENTS                                                 PRTONT,56
```

```
      C     ----------------                                                  PRTONT.57
      2010 FORMAT ( 36X,  37HLAKE ONTARIO REGULATION - PLAN 1958-D           PRTONT.58
     1       6X6HYEAR I5/18X6HLAKE23X6HCHAN7X11HADJ.  BASIC/18X11HONT.  PRTONT.59
     116,50 6X13HNORM SUP.  IN8X12HSUP.   RULE SEA.  SEA. APP. FLO=6X5HDPRTONT.60
     1ELTA8X16HEND OF QUARTER/9X14HQUARTER SUPPLY6X7IHX  NT.S NT.S IND. PRTONT.61
     1IND.  ADJM IND.  CURVE ADJM. ADJD LIM. COMP   STORAGE10X5HLEVEL/09PRTONT.62
     1M  MAX MIN ENDING  TCFS  NT.S. TCFS TCFS TCFS TCFS  TCFS TCFS  TCPRTONT.63
     1FS TCFS  TCFS TCFS TCFS TCFS   FT.5X6HFEET6X6HFEET  )                PRTONT.64
     2020 FORMAT ( /2I4,I3,1XA3,I6,I7,4I5,I6,I5,I8,3I5,A3,I4,I5,-2PF7.2,F8.2PRTONT.65
     1         ,F7.2 )                                                     PRTONT.66
          END                                                              PRTONT.67
```

E. A.A. 54

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 PRTONT

VARIABLES	SN	TYPE	RELOCATION				
231	I	INTEGER		253	IC	INTEGER	
244	IFF	INTEGER		264	III	INTEGER	
256	INK	INTEGER		247	IQ	INTEGER	
251	IQ2	INTEGER		254	IQ3	INTEGER	
243	IS	INTEGER		250	ISA	INTEGER	
260	IST	INTEGER		257	ISTAGE	INTEGER	
240	ISTAG1	INTEGER		255	ISTOR	INTEGER	
245	ISUM	INTEGER		0	ITITLE	INTEGER	F.P.
246	ITOT	INTEGER		230	ITP	INTEGER	
241	IWS	INTEGER		232	IY	INTEGER	
235	IYI	INTEGER		252	LIM	INTEGER	
0	MAXNCO	INTEGER	F.P.	233	MAXP	INTEGER	
234	MINP	INTEGER		236	MON	INTEGER	
0	NAM	INTEGER	F.P.	0	NCO	INTEGER	F.P.
237	NTS	INTEGER		242	NWS	INTEGER	
241	XNK	REAL		262	XSTAGE	REAL	
243	XSTAG1	REAL					

FILE NAMES	MODE
OUTPUT	FMT

EXTERNALS	TYPE	ARGS
PTITLE		6

STATEMENT LABELS

11	10			0	20	INACTIVE		0	30	INACTIVE	
38	40			0	50			41	60		
144	2010	FMT		217	2020	FMT					

LOOPS	LABEL	INDEX	FROM-TO	LENGTH	PROPERTIES
12	50	I	29 48	27A	EXT REFS EXITS

STATISTICS
PROGRAM LENGTH 272A 186
61000A SCM USED

```
      SUBROUTINE ROUND ( A, IA )                                        ROUND.2
C     01 FEB 1978                                                       ROUND.3
C                                                                       ROUND.4
C     PURPOSE =                                                         ROUND.5
C        ROUND FLOATING POINT NUMBERS FOR LRL                           ROUND.6
C                                                                       ROUND.7
C     USAGE =                                                           ROUND.8
C        CALL ROUND ( A, IA )                                           ROUND.9
C                                                                       ROUND.10
C     DESCRIPTION OF PARAMETERS =                                       ROUND.11
C        A       = INPUT FLOATING POINT NUMBER                          ROUND.12
C        IA      = OUTPUT FIXED    POINT NUMBER                         ROUND.13
C                                                                       ROUND.14
C     REMARKS =                                                         ROUND.15
C        FUNCTION WRITTEN BY G O LARSEN                                 ROUND.16
C        FORTRAN 4                                                      ROUND.17
C        PRECISION OF A1 A2 A3 IS NUMBER OF COMPUTER WORD FLOATING POINTROUND.18
C        SIGNIFICANT DECIMAL DIGITS                                     ROUND.19
C                                                                       ROUND.20
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED =                   ROUND.21
C        SIGN IABS INT                                                  ROUND.22
C                                                                       ROUND.23
C     METHOD =                                                          ROUND.24
C        US LAKE SURVEY METHOD                                          ROUND.25
C                                                                       ROUND.26
C                                                                       ROUND.27
      DATA A1/0.499999999999/, A2/0.000000000018/, A3/0.5000000000009/ROUND.28
C                                                                       ROUND.29
      XROUND (A)=A+SIGN (   IABS ( INT (A)-2*( INT (A)/2))*A2,A+A3)     ROUND.30
C                                                                       ROUND.31
      IA = XROUND ( A )                                                 ROUND.32
      RETURN                                                            ROUND.33
      END                                                               ROUND.34
```

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
1 ROUND

VARIABLES	SN	TYPE	RELOCATION				
0	A	REAL	F.P.	17	A1	REAL	
20	A2	REAL		21	A3	REAL	
0	IA	INTEGER	F.P.				

INLINE FUNCTIONS	TYPE	ARGS					
IABS	INTEGER	1	INTRIN		INT	INTEGER	1 INTRIN
SIGN	REAL	2	INTRIN		XROUND	REAL	1 SF

STATISTICS
PROGRAM LENGTH 228 18
61000B SCM USED

A.P. 5/7

```
      SUBROUTINE IABICE ( ICE )                                          IABICE.2
C     12 MAY 1975                                                        IABICE.3
C                                                                        IABICE.4
C     PURPOSE -                                                          IABICE.5
C        COMPUTE ABSOLUTE ICE WHERE ICE IS A FIXED POINT ARRAY           IABICE.6
C                                                                        IABICE.7
C     USAGE -                                                            IABICE.8
C        CALL    IABICE ( ICE )                                          IABICE.9
C                                                                        IABICE.10
C     DESCRIPTION OF PARAMETERS -                                        IABICE.11
C        ICE      -VECTOR OF LENGTH  12CONTAING ICE V    EU 8           I  I E 48 C .12
C                                                                        IABICE.13
C     REMARKS -                                                          IABICE.14
C        FORTRAN 4                                                       IABICE.15
C        ICE MUST BE DIMENSIONED 12 IN THE CALLING PROGRAM               IABICE.16
C                                                                        IABICE.17
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                    IABICE.18
C        IABS                                                            IABICE.19
C                                                                        IABICE.20
C     METHOD -                                                           IABICE.21
C        USING INTRINSIC FUNCTION IABS, RETURN ABSOLUTE VALUE OF ICE     IABICE.22
C                                                                        IABICE.23
C                                                                        IABICE.24
      DIMENSION  ICE(1)                                                  IABICE.25
C                                                                        IABICE.26
      DO 10 I=1,12                                                       IABICE.27
       ICE(I) = IABS (  ICE(I) )                                         IABICE.28
   10 CONTINUE                                                           IABICE.29
C                                                                        IABICE.30
      RETURN                                                             IABICE.31
C                                                                        IABICE.32
      END                                                                IABICE.33
```

AFAL 58

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 IABICE

VARIABLES SN TYPE RELOCATION
15 I INTEGER 0 ICE INTEGER ARRAY F.P.

INLINE FUNCTIONS TYPE ARGS
IABS INTEGER 1 INTRIN

STATEMENT LABELS
0 10

LOOPS LABEL INDEX FROM-TO LENGTH PROPERTIES
11 10 I 26 28 2R INSTACK

STATISTICS
PROGRAM LENGTH 168 14
61000B SCM USED

A/P 56

```
      SUBROUTINE PTITLE ( III, NAM, MAXNCD, ITITLE, NCD, JJJ )          PTITLE.2
C     24 SEP 1976                                                       PTITLE.3
C                                                                       PTITLE.4
C     PURPOSE -                                                         PTITLE.5
C        SUBROUTINE TO READ AND WRITE DATE TIME AND TITLE               PTITLE.6
C                                                                       PTITLE.7
C     USAGE -                                                           PTITLE.8
C        CALL    PTITLE ( III, NAM, MAXNCD, ITITLE, NCD, JJJ )          PTITLE.9
C                                                                       PTITLE.10
C     DESCRIPTION OF PARAMETERS -                                       PTITLE.11
C        III     - INPUT JUMP INDEX                                     PTITLE.12
C                  1 READ DATE AND TIME                                 PTITLE.13
C                  2 READ TITLE AND TEST FOR BLANK                      PTITLE.14
C                  3 PRINT DATE TIME AND TITLE                          PTITLE.15
C        NAM     - INPUT VECTOR OF LENGTH 27 CONTAINING PROGRAM NAME    PTITLE.16
C        MAXNCD  - INPUT MAX NUMBER OF TITLE CARDS                      PTITLE.17
C        ITITLE  - OUTPUT VECTOR OF LENGTH 27 * NCD CONTAINING RUN TITLEPTITLE.18
C        NCD     - OUTPUT NUMBER OF TITLE CARDS                         PTITLE.19
C        JJJ     - OUTPUT END OF FILE INDICATOR 1 NO 2 YES              PTITLE.20
C                                                                       PTITLE.21
C     REMARKS -                                                         PTITLE.22
C        WRITTEN FOR UNIVAC 1108                                        PTITLE.23
C                                                                       PTITLE.24
C        INPUT CARDS IN FOLLOWING ORDER                                 PTITLE.25
C                                                                       PTITLE.26
C        READ  1000 - MAXNCD CARDS MAX                                  PTITLE.27
C         COL      FMT      VAR    DESCRIPTION                         PTITLE.28
C        01-80 26A3,A2  ITITLE   TITLE OF RUN                           PTITLE.29
C                                                                       PTITLE.30
C     NAM    MUST BE DIMENSIONED 27 IN CALLING PROGRAM                  PTITLE.31
C     ITITLE MUST BE DIMENSIONED 27 * NCD IN CALLING PROGRAM            PTITLE.32
C                                                                       PTITLE.33
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                   PTITLE.34
C        STDMY                                                          PTITLE.35
C                                                                       PTITLE.36
C     METHOD -                                                          PTITLE.37
C                                                                       PTITLE.38
C                                                                       PTITLE.39
      DIMENSION NAM(1), ITITLE(1)                                       PTITLE.40
C                                                                       PTITLE.41
      DATA IBK/3H   /                                                   PTITLE.42
C                                                                       PTITLE.43
      JJJ = 1                                                           PTITLE.44
C                                                                       PTITLE.45
      IF ( III - 2 ) 10,20,80                                           PTITLE.46
C                                                                       PTITLE.47
C     READ SYSTEM DATE AND TIME                                         PTITLE.48
C     -------------------------                                         PTITLE.49
   10 CALL STDMY(IDAY,IMON,IYR,IHR)                                     PTITLE.50
      RETURN                                                            PTITLE.51
C                                                                       PTITLE.52
C     READ TITLE OF RUN AND TEST FOR BLANK                              PTITLE.53
C     ------------------------------------                              PTITLE.54
   20 DO 30 J=1,MAXNCD                                                  PTITLE.55
      N = J * 27                                                        PTITLE.56
```

A-A160

```
                M = N - 26                                                      PTITLE,57
                READ  1000, ( ITITLE(I),I=M,N )                                PTITLE,58
          C                                                                     PTITLE,59
                DO 30 I=M,N                                                     PTITLE,60
          60    IF( ITITLE(I) - IBK ) 40,30,40                                  PTITLE,61
             30 CONTINUE                                                        PTITLE,62
          C                                                                     PTITLE,63
                GO TO 50                                                        PTITLE,64
          C                                                                     PTITLE,65
          65    40 CONTINUE                                                     PTITLE,66
          C                                                                     PTITLE,67
                J = MAXNCD + 1                                                  PTITLE,68
          C                                                                     PTITLE,69
             50 NCD = J - 1                                                     PTITLE,70
          70    IF( NCD ) 60,60,70                                              PTITLE,71
             60 JJJ = 2                                                         PTITLE,72
             70 RETURN                                                          PTITLE,73
          C                                                                     PTITLE,74
          C     PRINT DATE TIME AND TITLE                                       PTITLE,75
          75 C  ------------------------                                        PTITLE,76
             80 PRINT 1050, ( NAM(I),I=1,27 ), IDAY, IMON, IYR, IHR             PTITLE,77
                N = NCD + 27                                                    PTITLE,78
                PRINT 2000, ( ITITLE(I),I=1,N )                                 PTITLE,79
                RETURN                                                          PTITLE,80
          80    C                                                               PTITLE,81
          C     FORMAT STATEMENTS                                               PTITLE,82
          C     -----------------                                               PTITLE,83
           1000 FORMAT ( 26A3,A2 )                                              PTITLE,84
           1050 FORMAT ( 1H1,4X,26A3,A2 / 5X,I2,1X,A3,2I5)                      PTITLE,85
          85    2000 FORMAT ( 5X,26A3,A2 )                                      PTITLE,86
                END                                                             PTITLE,87
```

A'A, 61

SUBROUTINE PTITLE 76/76 OPT=1 FTN 4.A+508/045 12 JAN 81 10.15.11 PAGE 3

CARD NR. SEVERITY DETAILS DIAGNOSIS OF PROBLEM

76 I ARRAY REFERENCE OUTSIDE DIMENSION BOUNDS.

A.A. 542

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 PTITLE

VARIABLES SN TYPE RELOCATION

131	I	INTEGER			67	IBK	INTEGER				
122	IDAY	INTEGER			125	IHR	INTEGER				
0	III	INTEGER		F.P.	123	IMON	INTEGER				
0	ITITLE	INTEGER	ARRAY	F.P.	124	IYR	INTEGER				
126	J	INTEGER			0	JJJ	INTEGER		F.P.		
130	M	INTEGER			0	MAXNCD	INTEGER		F.P.		
127	N	INTEGER			0	NAM	INTEGER	ARRAY	F.P.		
0	NCD	INTEGER		F.P.							

FILE NAMES MODE
INPUT FMT OUTPUT FMT

EXTERNALS TYPE ARGS
STDMY 4

STATEMENT LABELS

0	10	INACTIVE		15	20			0	30		
35	40			42	50			0	60	INACTIVE	
87	70			50	80			111	1000	FMT	
113	1050	FMT		117	2000	FMT					

LOOPS LABEL INDEX FROM-TO LENGTH PROPERTIES

16	40	J	58 65	22R		EXT REFS	EXITS NOT INNER
30	30	I	59 61	5R	INSTACK	EXITS	

STATISTICS
PROGRAM LENGTH 136R 94
61000R SCM USED

A.A. 68

```
      SUBROUTINE STDMY ( IDAY, JMO, IYR, JHR )                          STDMY,2
C     06 OCT 1976                                                       STDMY,3
C                                                                       STDMY,4
C     PURPOSE -                                                         STDMY,5
C        DATE TIME SUBROUTINE FOR CDC 6000 OR 7600 AT LBL               STDMY,6
C                                                                       STDMY,7
C     USAGE -                                                           STDMY,8
C        CALL STDMY ( IDAY, JMO, IYR, JHR )                             STDMY,9
C                                                                       STDMY,10
C     DESCRIPTION OF PARAMETERS -                                       STDMY,11
C        IDAY     - DAY - INTEGER VARIABLE                            STDMY,12
C        JMO      - MONTH - ALPHA VARIABLE                            STDMY,13
C        IYR      - LAST TWO DIGITS OF THE YEAR - INTEGER VARIABLE    STDMY,14
C        JHR      - TIME ELAPSED SINCE 1200 MIDNIGHT - INTEGER VARIABLE STDMY,15
C                                                                       STDMY,16
C     REMARKS -                                                         STDMY,17
C        DATE HOUR ARE CDC DATE/TIME SUBROUTINES FOR CDC 6000 OR 7600   STDMY,18
C        FORTRAN EXTENDED (FTN4) REFERENCE MANUAL LBL 1-8-0             STDMY,19
C        PRINT FORMAT I2,1X,A3,I3,I5                                    STDMY,20
C                                                                       STDMY,21
C     SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED -                   STDMY,22
C        DATE HOUR                                                      STDMY,23
C                                                                       STDMY,24
C     METHOD -                                                          STDMY,25
C                                                                       STDMY,26
C                                                                       STDMY,27
      CALL DATE ( IDATE )                                               STDMY,28
      DECODE ( 10, 1000, IDATE ) IDAY, IMON, IYR                        STDMY,29
      JMO = IMON                                                        STDMY,30
C                                                                       STDMY,31
      CALL HOUR ( ITIME )                                               STDMY,32
      DECODE ( 10, 1010, ITIME ) IHR, IMIN, ISEC                        STDMY,33
      IF( ISEC - 30 ) 20,20,10                                          STDMY,34
   10 IMIN = IMIN + 1                                                   STDMY,35
   20 JHR = IHR * 100 + IMIN                                            STDMY,36
C                                                                       STDMY,37
C     FORMAT STATEMENTS                                                 STDMY,38
C     -----------------                                                 STDMY,39
 1000 FORMAT ( 1X,I2,1X,A3,1X,I2 )                                      STDMY,40
 1010 FORMAT ( 1X,I2,1X,I2,1X,I2 )                                      STDMY,41
      END                                                               STDMY,42
```

SYMBOLIC REFERENCE MAP (R=1)

ENTRY POINTS
3 STDMY

VARIABLES	SN	TYPE	RELOCATION				
57	IDATE	INTEGER		0	IDAY	INTEGER	F.P.
62	IHR	INTEGER		63	IMIN	INTEGER	
60	IMON	INTEGER		64	ISEC	INTEGER	
61	ITIME	INTEGER		0	IYR	INTEGER	F.P.
0	JHR	INTEGER	F.P.	0	JMO	INTEGER	F.P.

EXTERNALS	TYPE	ARGS			
DATE		1	HOUR	1	

STATEMENT LABELS
0 10 INACTIVE 22 20 50 1000 FMT
53 1010 FMT

STATISTICS
PROGRAM LENGTH 658 53
61000B SCM USED

Annex B

SAMPLE INPUT

```
SAMPLE INPUT DATA FOR PLAN 1977                                                 RUN
                                                                                DP77
600.29600.06599.8[illegible]599.82600.07600.42600.67600.82600.87600.84600.72600.53   PMS DP77
  .43   .43   .43   .45   .48   .48   .48   .44   .43   .43   .43   .41   PSSODP77
577.72577.64577.64577.80578.15578.44578.63578.66578.53578.34578.09577.92   PHM DP77
 1.14  1.13  1.12  1.16  1.17  1.20  1.22  1.24  1.24  1.18  1.18  1.16   PHSODP77
  71.   71.   70.   70.   76.   81.   87.   86.   86.   84.   85.   71.   QB DP77
  55.   55.   55.   55.   55.   55.   55.   55.   55.   55.   55.   55.   SUPLIMDP77
 1900 1900    0    0    1    1  110511                                        RUN
601.51   30.  200.  100.                                                      RUN
 -40.  -47.  -34.  -49.    0.  -15.  -51.  -39.  -26.  -16.   -4.    0.   EICEDP77
    0    1  122055                                                          MFIX
  577.51   572.50    569.95      3.2      1962-1968 CONDITIONS               RUN
1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000                 NBSS2 DML
2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000                 NBM+  DML
   0    0    0    0    0    0    0    0    0    0    0    0                 NBR   DML
   1   01328599999    1                                                     DML
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0   CDDML
000.00000.00000.00000.00000.00000.00000.00000.00000.00000.00000.00000.00   TAOMSDML
000.00                  0                                                   TMMSDML
578.00578.00578.00578.00578.00578.00578.00578.00578.00578.00578.00578.00   PMMSDML
2205599999    1  121540 2053    1    1                                     ERPMCDML
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0   ADDDML
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0   SUBDML
   0    0    0  248  248  248  248  248  248  248  248  248  253  257  259   261D58D
 263  265  266  267  267  268  268  268  267  266  265    0    0    0    0   0D58D
   0    0    0    0    0    0    0    0    0    0    0    0    0    0    0   0N58D
   0    0    0    0    0    0    0    0    0    0    0    0    0    0    0   0HFIX
   0  227  232  237  242  245  247  249  251  252  253  254  255  256  256   256D58D
 256  255  252  249  247  245  243  241  240  239  238  238  238    0    0   0D58D
 210  207  204  188  188  190  193  193  193  193  198  210                 OLD M LIMD58D
-18-18-18-18-20-22-22-21-24-23-23-24-23-22-21-21-21-22-24-25-24-21        SUPLY INDD58D
   4   12 1899    4   12 1900 3529    0  220   -2  20324421  1210  4    0    0    0   RUN
-999999999-999999999-999999999                                              D58D
   0    0    0    0    0    0    0    0    0    0    0   0-11                IUPD58D
   0    0    0    0    0    0    0    0    0    0    0   0-20                IDND58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NSD58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NMHD58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NE1D58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NE2D58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NE3D58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NE4D58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NO1D58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NO2D58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NO3D58D
   0    0    0    0    0    0    0    0    0    0    0    0                  NO4D58D
                                                                             D58D
                                                                             D58D
                                                                             D58D
                                                                             D58D
                                                                             D58D
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A.B. 1

Annex C

SAMPLE OUTPUT

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- PLAN 1977 REGULATION PLAN - 4827 - 724F3051
27 MAR  81 1120
  SAMPLE OUTPUT FOR PLAN 1977

SUPERIOR TARGET STAGES
 600.29   600.06   599.89   599.82   600.07   600.42   600.67   600.82   600.87   600.84   600.72   600.53

SUPERIOR STANDARD DEVATIONS
   .43      .43      .43      .45      .48      .48      .48      .44      .43      .43      .43      .41

MICHIGAN-HURON TARGET STAGES
 577.72   577.64   577.64   577.80   578.15   578.44   578.63   578.66   578.53   578.34   578.09   577.92

MICHIGAN-HURON STANDARD DEVATIONS
  1.14     1.13     1.12     1.16     1.17     1.20     1.22     1.24     1.24     1.18     1.18     1.16

SUPERIOR MEAN FLOWS
 71.00    71.00    70.00    70.00    76.00    81.00    87.00    86.00    86.00    84.00    85.00    71.00

SUPERIOR LOWER LIMIT FLOWS
 55.00    55.00    55.00    55.00    55.00    55.00    55.00    55.00    55.00    55.00    55.00    55.00

PARAMETERS
  1900     1900        0        0        1        1        1    10511

INITIAL VALUES
 601.51    30.00   200.00   100.00

NIAGARA RIVER ICE AND WEED CONSTANT
 40.00    47.00    34.00    49.00     0.      15.00    51.00    39.00    26.00    16.00     4.00     0.
LONG LAKE OGOKI PARAMETERS
      0        1        1    22055

INITIAL VALUES MIDDLE LAKES
 577.51   572.60   569.95     3.20

SUP PREVIOUS YEAR NBS
  1000     1000     1000     1000     1000     1000     1000     1000     1000     1000     1000     1000

M-H PREVIOUS YEAR NBS
  2000     2000     2000     2000     2000     2000     2000     2000     2000     2000     2000     2000

ERE PREVIOUS YEAR NBS
     0        0        0        0        0        0        0        0        0        0        0        0

CHICAGO DIVERSION PARAMETERS
     1        0    13285    99999        1

CHICAGO DIVERSION ADDITIONS
    0.       0.       0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

CHICAGO DIVERSION TARGET STAGES
    0.       0.       0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

YEARLY AVERAGE TARGET STAGE
    0.

PREVIOUS YEARS HURON STAGES
 578.00   578.00   578.00   578.00   578.00   578.00   578.00   578.00   578.00   578.00   578.00   578.00

PARAMETERS
```

ADD TO ERIE OUTFLOWS
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

SUB FROM ERIE OUTFLOWS
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

NORMAL WEIGHTED SUPPLIES
234 234 233 233 233 233 233 233 233 235 237 242 246 249 252 254 257 258 260 261 262 262 263 263 262 262
241 259 258 256 254 252 250 248 246 244 243 241 239 238 237 236 235 235 235 235 234 234

SEASONAL ADJUSTMENT
0 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -8 -10 -12 -14 -16 -18 -20 -20 -20 -20 -20 -20 -18 -16
-14 -12 -10 -8 -6 -4 -2 0 2 2 2 2 2 4 4 6 6 8 8 8 6 6

MAXIMUM P LIMITATION
0 0 0 248 248 248 248 248 248 248 248 248 253 257 259 261 263 265 266 267 267 268 268 268 267 266
265 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

MINIMUM P LIMITATION
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 227 232 237 242 245 247 249 251 252
253 254 255 256 256 256 256 255 252 249 247 245 243 241 240 239 238 238 238 0 0 0

M LIMITATION
210 207 204 188 188 190 193 193 193 193 198 210

SUPPLY INDICATOR
-18 -18 -18 -18 -20 -22 -22 -21 -24 -23 -23 -24 -23 -22 -21 -21 -21 -22 -24 -25 -24 -21

INITIAL WEEK DATA
4 12 1899 4 12 1900 3529 0 220 -2 20348421 1 210 4 0 0 0

INCREASING AND DECREASING INDICES
999999999-999999999-999999999

INCREASE TO FLOW AND INCREASING SUPPLY INDICATOR
0 0 0 0 0 0 0 0 0 0 0 0 -11

DECREASE TO FLOW AND DECREASING SUPPLY INDICATOR
0 0 0 0 0 0 0 0 0 0 0 0 -20

PREVIOUS YEARS SUPERIOR SUPPLY
0 0 0 0 0 0 0 0 0 0 0 0

PREVIOUS YEARS HURON SUPPLY
0 0 0 0 0 0 0 0 0 0 0 0

PREVIOUS YEARS ERIE SUPPLY
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

PREVIOUS YEARS ONTARIO SUPPLY
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

- PLAN 1977 REGULATION PLAN - 4A27 - 724F3051
27 MAR 81 1120
SAMPLE OUTPUT FOR PLAN 1977

LAKE ONTARIO REGULATION - PLAN 1958-D YEAR 1899

MAX	MIN	QUARTER ENDING	LAKE ONT. SUPPLY TCFS	16.50 X WT.S WT.S TCFS	NORM SUP. IND. TCFS	CHAN IN IND. TCFS	ADJM TCFS	ADJ. SUP. IND. TCFS	BASIC RULE CURVE TCFS	SEA. ADJM. TCFS	SEA. ADJD TCFS	APP. LIM. TCFS	FLOW COMP TCFS	DELTA STORAGE TCFS	FT.	END OF QUARTER LEVEL FEET	FEET
					-1A												
					-1B												
					-1B												
					-1B												
					-2C												
					-2E												
					-2E												
					-2D												
					-2F												
					-2D												
					-2D												
					-2E												
					-2D												
					-2E	-4											
					-2D	-3											
					-2D	-3											
					-2D	-1											
					-2E	0											
					-2F	-2											
					-2G	-4											
					-2F	0											
					-2D	2											
0	0	4 DEC	220	3529	214	234	-2C	3	-2	-2E	203	6	209	210	M	210	10	.03	244.21	244.21

A.C.3

- PLAN 1977 REGULATION PLAN - 4827 - 724F3051
27 MAR 81 1120
SAMPLE OUTPUT FOR PLAN 1977
- LAKE SUPERIOR REGULATION

YEAR	MO	STAGE BOM	QRULE	QPLAN	GATES	QREG	NTS	STORAGE TCFS	STORAGE FEET	STAGE MEAN	MICE	DICE	EICE	N12S	N12M	N12E
1900																
	1	601.51	330.8	85.0	4	82.9	-17.3	-100.2	-.30	601.36	390	210	40	12000	24000	0
	2	601.21	322.7	85.0	4	82.4	48.6	-33.8	-.10	601.16	450	290	47	10777	21987	-87
	3	601.11	320.2	85.0	4	81.9	-6.3	-88.2	-.26	600.98	420	360	34	10213	21604	524
	4	600.85	294.9	85.0	4	81.7	128.7	47.0	.14	600.92	20	0	49	9100	20203	1388
	5	600.99	288.0	111.7	17	113.9	132.4	18.5	.05	601.02	0	0	0	9337	20663	1873
	6	601.05	236.1	143.9	17	113.7	83.4	-30.3	-.09	601.00	0	0	15	9611	20409	2127
	7	600.96	176.1	143.7	14	110.4	205.4	95.0	.28	601.10	0	0	51	9395	19966	2249
	8	601.24	173.9	140.4	16	116.1	225.7	109.6	.32	601.40	0	0	39	10399	20643	2299
	9	601.56	211.3	146.1	17	121.5	266.3	144.8	.43	601.78	0	0	26	11606	20096	2262
	10	601.99	247.8	151.5	17	123.1	82.0	-41.1	-.12	601.93	0	0	16	13219	18872	1872
	11	601.87	272.0	153.1	17	120.6	-2.4	-123.0	-.36	601.69	0	0	4	12989	17606	1551
	12	601.51	217.1	85.0	4	82.8	-45.6	-128.4	-.38	601.32	40	10	0	11915	16171	1471

A.C.4

- PLAN 1977 REGULATION PLAN - 4827 - 724F3051
27 MAR 81 1120
SAMPLE OUTPUT FOR PLAN 1977
- MIDDLE LAKE ROUTING

LAKE MICHIGAN-HURON					LAKE ST. CLAIR				LAKE ERIE					
NTS.	AVE ELEV	O/F	EOP ELEV	NTS.	AVE ELEV	O/F	EOP ELEV	NTS.	AVE ELEV	O/F	EOP ELEV	MON	QTR	YEAR
78.4	577.492	148.8	577.473	151.9	572.486	153.7	572.405	5.7	569.734	184.5	569.524	1	1	1900
78.4	577.455	149.6	577.436	152.7	572.352	154.2	572.328	187.7	569.534	180.4	569.542	1	2	1900
78.4	577.418	149.1	577.400	152.2	572.322	152.4	572.317	187.0	569.549	180.8	569.556	1	3	1900
78.4	577.381	148.2	577.363	151.3	572.316	151.3	572.317	196.5	569.575	181.3	569.593	1	4	1900
78.4	577.437	148.9	577.363	152.0	572.369	152.9	572.317	144.2	569.593	181.7	569.593			
240.9	577.389	141.3	577.415	148.9	572.403	146.5	572.445	182.8	569.594	180.9	569.597	2	1	1900
240.9	577.441	141.7	577.467	149.3	572.471	148.3	572.499	210.2	569.631	181.7	569.665	2	2	1900
240.9	577.492	142.3	577.518	149.9	572.528	148.8	572.556	208.1	569.695	183.0	569.725	2	3	1900
240.9	577.543	142.7	577.569	150.3	572.593	148.8	572.635	235.9	569.786	184.8	569.846	2	4	1900
240.9	577.466	142.0	577.569	149.6	572.498	148.1	572.635	209.2	569.677	182.6	569.846			
138.6	577.568	143.3	577.566	153.3	572.817	148.1	572.906	234.0	569.900	188.4	569.955	3	1	1900
138.6	577.566	141.5	577.565	151.5	572.942	150.2	572.973	234.1	570.007	190.6	570.058	3	2	1900
138.6	577.564	140.6	577.564	150.6	573.003	149.5	573.032	239.6	570.115	192.8	570.170	3	3	1900
138.6	577.563	139.8	577.563	149.8	573.060	148.8	573.086	234.5	570.217	194.9	570.264	3	4	1900
138.6	577.565	141.3	577.563	151.3	572.955	149.1	573.086	235.5	570.060	191.7	570.264			
324.5	577.601	179.9	577.638	185.6	573.118	184.3	573.157	236.3	570.313	195.4	570.361	4	1	1900
324.5	577.676	180.7	577.713	186.4	573.198	184.8	573.240	236.8	570.408	197.4	570.455	4	2	1900
324.5	577.750	181.4	577.787	187.1	573.282	185.5	573.325	239.8	570.504	199.3	570.551	4	3	1900
324.5	577.824	182.2	577.861	187.9	573.360	186.6	573.392	222.3	570.577	200.8	570.602	4	4	1900
324.5	577.713	181.0	577.861	186.7	573.240	185.3	573.392	233.8	570.450	198.2	570.602			
285.3	577.887	185.2	577.913	187.8	573.407	187.1	573.428	227.6	570.627	206.8	570.652	5	1	1900
285.3	577.939	185.9	577.965	188.5	573.446	187.9	573.460	209.9	570.655	207.4	570.658	5	2	1900
285.3	577.991	186.9	578.016	189.5	573.473	189.0	573.485	208.7	570.659	207.5	570.661	5	3	1900
285.3	578.042	187.9	578.067	190.5	573.497	190.0	573.509	209.3	570.663	207.5	570.665	5	4	1900
285.3	577.965	186.5	578.067	189.1	573.456	188.5	573.509	213.9	570.651	207.3	570.665			
266.2	578.087	188.5	578.107	191.7	573.535	190.8	573.560	230.7	570.694	206.7	570.722	6	1	1900
266.2	578.127	189.1	578.147	192.3	573.569	192.1	573.570	188.7	570.700	206.8	570.679	6	2	1900
266.2	578.167	190.2	578.187	193.4	573.567	193.5	573.563	186.3	570.655	205.9	570.633	6	3	1900
266.2	578.206	191.2	578.226	194.4	573.569	194.1	573.580	213.7	570.642	205.6	570.652	6	4	1900
266.2	578.147	189.7	578.226	192.9	573.560	192.6	573.580	204.8	570.673	206.3	570.652			

AC 5

* PLAN 1977 REGULATION PLAN * 4827 * 724F3051
27 MAR 81 1120
SAMPLE OUTPUT FOR PLAN 1977
* MIDDLE LAKE ROUTING

LAKE MICHIGAN-HURON					LAKE ST. CLAIR				LAKE ERIE					
NTS.	AVE ELEV	O/F	EOP ELEV	NTS.	AVE ELEV	O/F	EOP ELEV	NTS.	AVE ELEV	O/F	EOP ELEV	MON	QTR	YEAR
374.9	578.273	192.6	578.321	195.6	573.596	194.8	573.617	206.7	570.657	202.3	570.662	7	1	1900
374.9	578.368	194.5	578.414	197.5	573.634	196.9	573.647	188.3	570.645	202.1	570.630	7	2	1900
374.9	578.461	196.5	578.507	199.5	573.666	198.7	573.688	207.4	570.636	201.9	570.643	7	3	1900
374.9	578.553	198.3	578.599	201.3	573.712	200.4	573.736	208.5	570.650	202.2	570.658	7	4	1900
374.9	578.414	195.5	578.599	198.5	573.652	197.7	573.736	202.7	570.647	202.1	570.658			
258.2	578.614	199.5	578.629	202.1	573.740	202.0	573.741	189.0	570.641	203.2	570.624	8	1	1900
258.2	578.645	200.2	578.660	202.8	573.746	202.5	573.756	210.5	570.633	203.0	570.642	8	2	1900
258.2	578.675	200.6	578.689	203.2	573.773	202.5	573.794	228.6	570.672	203.8	570.701	8	3	1900
258.2	578.704	201.1	578.719	203.7	573.794	203.9	573.784	168.1	570.658	203.5	570.617	8	4	1900
258.2	578.659	200.4	578.719	203.0	573.763	202.7	573.784	199.1	570.651	203.4	570.617			
195.9	578.717	202.5	578.716	201.5	573.723	203.4	573.685	167.1	570.574	203.1	570.531	9	1	1900
195.9	578.714	203.4	578.712	202.4	573.653	203.7	573.619	146.6	570.466	200.8	570.402	9	2	1900
195.9	578.710	204.3	578.707	203.3	573.577	205.0	573.532	125.4	570.315	197.7	570.230	9	3	1900
195.9	578.705	205.0	578.703	204.0	573.520	204.1	573.524	221.0	570.259	196.6	570.288	9	4	1900
195.9	578.711	203.8	578.703	202.8	573.618	204.0	573.524	165.0	570.403	199.6	570.288			
193.3	578.700	204.8	578.697	203.6	573.519	203.9	573.509	178.8	570.265	197.7	570.243	10	1	1900
193.3	578.694	205.0	578.691	203.8	573.496	204.3	573.483	177.6	570.220	196.8	570.197	10	2	1900
193.3	578.688	205.2	578.684	204.0	573.470	204.5	573.457	178.0	570.176	195.9	570.155	10	3	1900
193.3	578.681	205.5	578.678	204.3	573.436	205.1	573.412	154.8	570.107	194.5	570.060	10	4	1900
193.3	578.691	205.1	578.678	203.9	573.480	204.5	573.412	172.3	570.192	196.2	570.060			
173.9	578.670	205.6	578.662	205.3	573.405	205.6	573.395	182.3	570.046	194.4	570.032	11	1	1900
173.9	578.653	205.5	578.645	205.2	573.380	205.8	573.363	169.5	570.003	193.5	569.974	11	2	1900
173.9	578.637	205.3	578.629	205.0	573.363	204.8	573.373	224.6	570.012	193.7	570.048	11	3	1900
173.9	578.621	204.6	578.613	204.3	573.383	204.0	573.392	211.7	570.068	194.9	570.088	11	4	1900
173.9	578.645	205.2	578.613	204.9	573.383	205.0	573.392	197.0	570.032	194.1	570.088			
18.8	578.566	199.8	578.519	197.8	573.339	199.2	573.318	227.2	570.126	196.4	570.161	12	1	1900
18.8	578.472	197.9	578.426	195.9	573.297	196.9	573.268	178.2	570.139	196.7	570.117	12	2	1900
18.8	578.379	196.5	578.333	194.5	573.229	196.1	573.185	154.9	570.069	195.3	570.021	12	3	1900
18.8	578.287	195.2	578.242	193.2	573.143	194.8	573.102	163.5	569.985	193.6	569.949	12	4	1900
18.8	578.426	197.8	578.242	195.4	573.252	196.7	573.102	180.9	570.080	195.5	569.949			

A.C.6

- PLAN 1977 REGULATION PLAN - 4827 - 724F3051
27 MAR 81 1120

SAMPLE OUTPUT FOR PLAN 1977

LAKE ONTARIO REGULATION - PLAN 1958-D YEAR 1900

MAX	MIN	QUARTER ENDING	LAKE ONT. SUPPLY TCFS	10.50 X WT.S TCFS	NORM WT.S TCFS	SUP. IND. TCFS	CHAN IN IND. TCFS	ADJM TCFS	ADJ. SUP. IND. TCFS	BASIC RULE CURVE TCFS	SEA. ADJM. TCFS	SEA. ADJD TCFS	APP. LIM. TCFS	FLOW COMP TCFS	DELTA STORAGE TCFS	DELTA STORAGE FT.	END OF QUARTER LEVEL FEET	END OF QUARTER LEVEL FEET
0	0	1 JAN	238	3553	215	234	-19	5	-2	-21	207	0	207	210 M	210	28	.09	244.30	244.30
0	0	2 JAN	217	3555	215	234	-19	4	-2	-21	213	-6	207	210 M	210	7	.02	244.32	244.32
0	0	3 JAN	215	3555	215	233	-18	4	-2	-20	213	-6	207	210 M	210	5	.02	244.34	244.34
248	0	4 JAN	174	3514	213	233	-20	1	-2	-22	218	-6	212	212	212	-38	-.12	244.22	244.22
248	0	1 FEB	219	3520	213	233	-20	1	-2	-22	207	-6	201	207 M	207	12	.04	244.26	244.26
248	0	2 FEB	252	3559	216	233	-17	4	-2	-19	208	-6	202	207 M	207	45	.14	244.40	244.40
248	0	3 FEB	241	3584	217	233	-16	6	-2	-18	223	-6	217	217	217	24	.07	244.47	244.47
248	0	4 FEB	252	3619	219	233	-14	10	-2	-16	228	-6	222	222	222	30	.09	244.56	244.56
248	0	1 MAR	224	3624	220	233	-13	12	-2	-15	237	-6	231	231	231	-7	-.02	244.54	244.54
248	0	2 MAR	229	3633	220	235	-15	9	-2	-17	240	-6	234	234	234	-5	-.02	244.52	244.52
248	0	3 MAR	195	3608	219	237	-18	3	-2	-20	233	-6	227	227	227	-32	-.10	244.42	244.42
248	0	4 MAR	271	3660	222	242	-20	0	-2	-22	219	-6	213	213	213	58	.18	244.60	244.60
253	0	1 APR	327	3765	228	246	-18	1	-2	-20	215	-8	207	207	207	120	.38	244.98	244.98
257	0	2 APR	320	3857	234	249	-15	4	2	-13	231	-10	221	221	221	99	.31	245.29	245.29
259	0	3 APR	308	3931	238	252	-14	4	2	-12	257	-12	245	241 J	241	67	.21	245.50	245.50
261	0	4 APR	260	3953	240	254	-14	6	3	-11	262	-14	248	248	248	12	.04	245.54	245.54
263	0	1 MAY	262	3975	241	257	-16	4	4	-12	264	-16	248	247 P	247	15	.05	245.59	245.59
265	227	2 MAY	228	3962	240	258	-18	-1	3	-15	264	-18	246	246	246	-18	-.06	245.53	245.53
266	232	3 MAY	262	3984	241	260	-19	-3	1	-18	260	-20	240	240	240	22	.07	245.60	245.60
267	237	4 MAY	213	3956	240	261	-21	-7	-2	-23	251	-20	231	231	231	-18	-.06	245.54	245.54
267	242	1 JUN	260	3976	241	262	-21	-8	-4	-25	230	-20	210	213 P*	213	47	.15	245.69	245.69
268	245	2 JUN	246	3981	241	262	-21	-6	-5	-26	225	-20	205	211 P*	211	35	.11	245.80	245.80
268	247	3 JUN	229	3969	241	263	-22	-4	-6	-28	223	-20	203	213 P*	213	16	.05	245.85	245.85
268	249	4 JUN	212	3940	239	263	-24	-4	-5	-29	216	-20	196	216 P*	216	-4	-.01	245.84	245.84

A1C.7 MADE IN U.S.A.

Annex D

REGULATION PLAN 6L

Annex D

PLAN 6L

Table		Page
D-1	Lake Superior Monthly Mean Elevation	A.D.1
D-2	Lakes Michigan-Huron Monthly Mean Elevation	A.D.4
D-3	Lake St. Clair Monthly Mean Elevation	A.D.7
D-4	Lake Erie Monthly Mean Elevation	A.D.10
D-5	Lake Ontario Monthly Mean Elevation (With Deviation), Category 1	A.D.13
D-6	Lake Ontario Monthly Mean Elevation (With Deviation), Category 2	A.D.16
D-7	Lake Ontario Monthly Mean Elevation (With Deviation), Category 3	A.D.19
D-8	Lake Superior Monthly Mean Outflow	A.D.22
D-9	Lakes Michigan-Huron Monthly Mean Outflow	A.D.25
D-10	Lake St. Clair Monthly Mean Outflow	A.D.28
D-11	Lake Erie Monthly Mean Outflow	A.D.31
D-12	Lake Ontario Monthly Mean Outflow (With Deviation), Category 1	A.D.34
D-13	Lake Ontario Monthly Mean Outflow (With Deviation), Category 2	A.D.37
D-14	Lake Ontario Monthly Mean Outflow (With Deviation), Category 3	A.D.40
D-15	Lake St. Louis Monthly Mean Outflow (With Deviation), Category 1	A.D.43
D-16	Lake St. Louis Monthly Mean Outflow (With Deviation), Category 2	A.D.46
D-17	Lake St. Louis Monthly Mean Outflow (With Deviation), Category 3	A.D.49

TABLE D-1

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	601.36	601.16	600.98	600.92	601.02	601.00	601.10	601.40	601.78	601.93	601.69	601.32
1901	600.95	600.66	600.50	600.53	600.64	600.86	601.16	601.27	601.12	601.03	600.89	600.59
1902	600.30	600.07	599.96	600.02	600.25	600.52	600.71	600.77	600.81	600.82	600.77	600.61
1903	600.37	600.06	599.92	600.09	600.52	600.84	600.95	601.07	601.12	601.10	600.93	600.60
1904	600.27	600.11	600.02	599.98	600.26	600.65	600.80	600.97	601.17	601.30	601.14	600.78
1905	600.45	600.23	600.24	600.36	600.59	600.91	601.16	601.33	601.45	601.36	601.15	600.94
1906	600.67	600.47	600.28	600.30	600.55	600.87	601.07	601.09	601.10	601.03	600.90	600.71
1907	600.51	600.36	600.31	600.30	600.53	600.90	601.07	601.28	601.48	601.38	601.06	600.65
1908	600.29	600.08	599.94	599.94	600.34	600.85	601.12	601.17	601.11	600.96	600.68	600.44
1909	600.22	600.07	599.96	599.97	600.31	600.56	600.78	601.00	600.98	600.87	600.79	600.70
1910	600.47	600.21	600.00	600.01	600.14	600.21	600.27	600.38	600.43	600.34	600.19	599.92
1911	599.64	599.45	599.27	599.21	599.49	599.91	600.30	600.60	600.69	600.59	600.40	600.23
1912	600.02	599.82	599.72	599.87	600.18	600.44	600.62	600.76	600.85	600.84	600.68	600.44
1913	600.18	599.91	599.94	600.19	600.52	600.77	600.99	601.18	601.28	601.27	601.13	600.89
1914	600.57	600.31	600.10	600.14	600.44	600.71	600.87	600.97	601.01	600.91	600.73	600.42
1915	600.16	600.04	599.79	599.74	599.97	600.34	600.65	600.71	600.86	601.00	600.97	600.85
1916	600.68	600.47	600.29	600.52	601.06	601.46	601.61	601.60	601.63	601.59	601.30	601.03
1917	600.76	600.48	600.43	600.45	600.57	600.83	600.99	601.12	601.22	601.15	600.98	600.72
1918	600.47	600.31	600.14	600.11	600.41	600.76	600.94	601.07	601.09	601.13	601.18	601.09
1919	600.86	600.63	600.44	600.45	600.63	600.74	600.81	600.80	600.78	600.70	600.65	600.55
1920	600.35	600.26	600.37	600.64	600.85	601.07	601.26	601.24	601.05	600.92	600.78	600.59
1921	600.35	600.06	599.94	600.12	600.47	600.63	600.70	600.75	600.70	600.56	600.29	599.95
1922	599.63	599.42	599.33	599.51	599.88	600.19	600.44	600.58	600.58	600.44	600.19	599.93
1923	599.71	599.46	599.31	599.36	599.50	599.65	599.84	599.99	600.04	600.04	599.96	599.77
1924	599.53	599.29	599.09	599.13	599.28	599.38	599.55	599.80	599.98	599.99	599.82	599.51
1925	599.23	599.04	598.95	599.03	599.19	599.40	599.63	599.74	599.81	599.74	599.48	599.22
1926	598.99	598.78	598.68	598.69	598.84	599.16	599.52	599.78	600.03	600.20	600.17	600.08
1927	599.90	599.76	599.79	600.02	600.44	600.81	601.02	601.06	600.93	600.80	600.58	600.34
1928	600.15	599.97	599.87	600.02	600.35	600.72	601.03	601.23	601.35	601.44	601.33	601.00
1929	600.74	600.60	600.57	600.68	600.79	600.87	601.05	601.12	601.12	601.16	601.06	600.85
1930	600.61	600.45	600.30	600.26	600.47	600.83	601.10	601.10	601.01	600.92	600.78	600.56
1931	600.27	599.99	599.72	599.63	599.77	599.98	600.17	600.20	600.21	600.30	600.34	600.24
1932	600.03	599.87	599.71	599.68	599.95	600.15	600.32	600.53	600.42	600.17	600.02	599.84
1933	599.60	599.43	599.28	599.34	599.74	600.06	600.19	600.22	600.22	600.22	600.09	599.88

A.D.1

TABLE D-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	599.69	599.54	599.44	599.50	599.77	600.01	600.10	600.13	600.26	600.34	600.28	600.13
1935	599.90	599.67	599.57	599.71	599.90	600.14	600.44	600.53	600.42	600.36	600.23	599.99
1936	599.80	599.67	599.65	599.78	600.16	600.47	600.43	600.38	600.34	600.16	599.95	599.78
1937	599.65	599.64	599.62	599.74	600.14	600.33	600.44	600.59	600.52	600.36	600.23	600.02
1938	599.79	599.63	599.59	599.90	600.32	600.65	600.84	600.87	600.85	600.72	600.56	600.38
1939	600.21	600.08	599.99	600.08	600.43	600.88	601.14	601.19	601.11	600.86	600.53	600.18
1940	599.90	599.68	599.46	599.39	599.71	600.20	600.46	600.45	600.33	600.20	600.10	599.99
1941	599.78	599.56	599.38	599.56	599.94	600.17	600.33	600.38	600.57	600.75	600.59	600.34
1942	600.11	599.88	599.78	599.90	600.25	600.50	600.60	600.72	600.73	600.73	600.70	600.48
1943	600.21	600.02	599.92	599.97	600.33	600.94	601.28	601.32	601.22	601.03	600.88	600.60
1944	600.26	600.00	599.83	599.86	600.20	600.72	601.12	601.31	601.34	601.10	600.83	600.58
1945	600.28	600.14	600.23	600.52	600.74	600.84	600.95	601.05	601.08	600.93	600.78	600.61
1946	600.40	600.25	600.26	600.37	600.49	600.69	600.85	600.86	600.89	600.94	600.81	600.54
1947	600.24	599.97	599.77	599.88	600.28	600.81	601.11	601.13	601.13	600.99	600.77	600.50
1948	600.21	599.95	599.80	600.08	600.40	600.44	600.53	600.67	600.64	600.42	600.32	600.21
1949	599.99	599.80	599.64	599.67	599.91	600.24	600.54	600.63	600.49	600.43	600.29	600.01
1950	599.81	599.63	599.52	599.64	600.18	600.79	601.10	601.24	601.20	601.12	601.03	600.80
1951	600.48	600.33	600.34	600.57	600.95	601.23	601.38	601.44	601.54	601.54	601.36	601.13
1952	600.94	600.73	600.55	600.67	600.86	601.04	601.41	601.61	601.51	601.14	600.82	600.65
1953	600.46	600.34	600.31	600.49	600.89	601.32	601.57	601.66	601.54	601.22	600.92	600.69
1954	600.48	600.32	600.19	600.34	600.85	601.25	601.36	601.22	601.10	600.99	600.87	600.65
1955	600.35	600.16	600.10	600.32	600.63	600.75	600.85	600.96	600.93	600.83	600.76	600.53
1956	600.26	600.01	599.74	599.68	599.96	600.27	600.50	600.67	600.65	600.54	600.38	600.20
1957	599.92	599.67	599.59	599.76	600.01	600.24	600.45	600.49	600.45	600.35	600.26	600.13
1958	599.90	599.70	599.52	599.50	599.59	599.76	600.03	600.22	600.30	600.22	600.09	599.90
1959	599.61	599.39	599.25	599.27	599.61	599.97	600.11	600.34	600.61	600.62	600.36	600.04
1960	599.83	599.62	599.41	599.58	600.12	600.49	600.63	600.73	600.73	600.64	600.57	600.38
1961	600.05	599.89	599.86	599.96	600.17	600.34	600.40	600.37	600.38	600.44	600.36	600.18
1962	599.91	599.71	599.64	599.64	599.91	600.16	600.22	600.31	600.39	600.29	600.03	599.77
1963	599.57	599.42	599.38	599.55	599.75	600.00	600.17	600.18	600.16	600.04	599.88	599.63
1964	599.37	599.17	598.95	599.08	599.56	599.97	600.09	600.16	600.25	600.15	599.93	599.72
1965	599.47	599.27	599.16	599.25	599.64	599.98	600.10	600.21	600.34	600.37	600.32	600.22
1966	600.02	599.82	599.77	599.90	600.15	600.33	600.40	600.52	600.48	600.34	600.21	599.98
1967	599.82	599.68	599.58	599.81	600.10	600.29	600.50	600.59	600.52	600.42	600.36	600.15

TABLE D-1 (CONTINUED)

LAKE SUPERTOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	599.90	599.67	599.58	599.85	600.19	600.56	601.03	601.32	601.48	601.54	601.29	601.00
1969	600.91	600.79	600.59	600.68	600.95	601.06	601.12	601.19	601.13	600.94	600.77	600.54
1970	600.32	600.16	600.01	600.10	600.54	600.89	601.07	601.11	601.05	601.10	601.13	601.02
1971	600.75	600.60	600.58	600.69	601.03	601.31	601.38	601.34	601.26	601.28	601.24	601.01
1972	600.80	600.62	600.53	600.64	600.91	601.10	601.27	601.52	601.63	601.45	601.20	601.00
1973	600.75	600.54	600.55	600.72	600.96	601.21	601.36	601.49	601.48	601.37	601.24	601.03
1974	600.82	600.64	600.47	600.58	600.89	601.16	601.40	601.53	601.51	601.37	601.31	601.18
1975	600.99	600.86	600.70	600.65	600.83	601.08	601.20	601.15	601.11	601.02	601.01	600.97
1976	600.72	600.54	600.52	600.75	600.92	601.01	601.09	601.02	600.82	600.54	600.26	599.94

A.D.3

TABLE D-2

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	577.44	577.47	577.56	577.71	577.96	578.14	578.41	578.65	578.70	578.68	578.63	578.41
1901	578.14	578.02	578.19	578.57	578.87	579.04	579.19	579.25	579.03	578.75	578.48	578.21
1902	578.03	577.88	577.92	578.10	578.32	578.63	578.94	578.98	578.75	578.47	578.26	578.06
1903	577.87	577.91	578.15	578.41	578.65	578.85	578.94	578.98	579.02	578.94	578.66	578.37
1904	578.19	578.15	578.39	578.82	579.28	579.59	579.65	579.57	579.42	579.24	578.97	578.63
1905	578.38	578.31	578.46	578.67	578.96	579.35	579.58	579.60	579.48	579.25	579.02	578.84
1906	578.76	578.83	578.91	579.08	579.29	579.47	579.52	579.36	579.13	578.91	578.73	578.61
1907	578.57	578.61	578.66	578.83	579.07	579.33	579.46	579.42	579.33	579.16	578.92	578.72
1908	578.54	578.52	578.68	578.95	579.38	579.70	579.81	579.68	579.31	578.92	578.48	578.07
1909	577.85	577.82	577.89	578.16	578.65	578.98	579.06	578.96	578.78	578.44	578.16	578.11
1910	578.08	578.06	578.08	578.32	578.58	578.67	578.62	578.49	578.33	578.12	577.87	577.55
1911	577.37	577.37	577.36	577.49	577.80	578.03	578.03	577.89	577.80	577.76	577.70	577.63
1912	577.57	577.55	577.54	577.73	578.32	578.75	578.85	578.92	578.94	578.81	578.66	578.51
1913	578.33	578.22	578.33	578.77	579.24	579.48	579.54	579.46	579.23	579.02	578.94	578.74
1914	578.52	578.45	578.46	578.58	578.79	579.05	579.18	579.12	578.93	578.68	578.35	577.98
1915	577.83	577.88	577.87	577.84	577.95	578.13	578.27	578.32	578.33	578.17	578.01	577.90
1916	577.85	577.92	578.06	578.50	579.08	579.58	579.82	579.71	579.50	579.35	579.22	579.12
1917	579.04	578.93	578.93	579.18	579.47	579.85	580.24	580.22	579.93	579.60	579.29	579.03
1918	578.92	579.01	579.25	579.53	579.89	580.12	580.10	579.95	579.66	579.37	579.21	579.17
1919	579.08	578.92	579.00	579.34	579.73	579.90	579.82	579.62	579.32	579.11	578.92	578.70
1920	578.49	578.37	578.52	578.87	579.08	579.25	579.40	579.41	579.32	579.09	578.74	578.49
1921	578.36	578.25	578.34	578.75	579.04	579.07	579.00	578.86	578.72	578.48	578.18	578.03
1922	577.91	577.86	578.03	578.47	578.94	579.14	579.27	579.18	578.91	578.55	578.18	577.88
1923	577.61	577.45	577.48	577.75	578.12	578.37	578.41	578.28	578.13	577.94	577.62	577.34
1924	577.14	577.05	577.17	577.39	577.69	577.93	578.05	578.14	578.08	577.73	577.36	577.02
1925	576.74	576.65	576.74	576.85	576.85	576.88	576.96	576.81	576.54	576.26	576.01	575.82
1926	575.70	575.68	575.76	576.01	576.35	576.66	576.84	576.83	576.76	576.69	576.74	576.77
1927	576.71	576.74	576.92	577.18	577.55	577.91	578.07	578.02	577.87	577.76	577.69	577.63
1928	577.53	577.52	577.66	578.06	578.50	578.81	579.05	579.16	579.13	579.19	579.33	579.30
1929	579.27	579.22	579.35	579.90	580.54	580.92	580.96	580.79	580.44	580.05	579.69	579.34
1930	579.15	579.19	579.27	579.34	579.53	579.75	579.89	579.75	579.37	578.94	578.52	578.16
1931	577.88	577.68	577.66	577.71	577.80	577.91	577.88	577.64	577.49	577.37	577.24	577.11
1932	577.06	577.14	577.09	577.14	577.37	577.53	577.55	577.50	577.30	577.05	576.82	576.67
1933	576.62	576.58	576.56	576.82	577.36	577.69	577.70	577.48	577.17	576.89	576.64	576.46

A.D.4

TABLE D-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	576.42	576.34	576.28	576.51	576.74	576.88	576.91	576.73	576.63	576.54	576.47	576.50
1935	576.43	576.43	576.59	576.78	576.92	577.12	577.29	577.23	577.07	576.82	576.68	576.56
1936	576.45	576.48	576.59	576.77	577.04	577.25	577.23	577.16	577.11	577.00	576.69	576.43
1937	576.35	576.37	576.34	576.49	576.87	577.13	577.24	577.21	577.11	576.93	576.78	576.60
1938	576.51	576.70	577.10	577.49	577.81	578.09	578.24	578.24	578.16	577.91	577.61	577.39
1939	577.23	577.23	577.33	577.57	577.91	578.23	578.40	578.39	578.28	578.01	577.73	577.44
1940	577.20	577.05	576.94	576.97	577.25	577.60	577.79	577.84	577.79	577.54	577.31	577.22
1941	577.16	577.10	577.00	577.12	577.36	577.45	577.46	577.32	577.23	577.37	577.52	577.50
1942	577.39	577.36	577.54	577.82	578.14	578.49	578.60	578.45	578.25	578.09	577.95	577.85
1943	577.78	577.84	578.06	578.36	578.78	579.32	579.69	579.73	579.55	579.22	578.94	578.64
1944	578.39	578.31	578.31	578.42	578.59	578.84	578.96	578.84	578.73	578.56	578.32	578.06
1945	577.83	577.72	577.81	578.05	578.40	578.84	579.07	579.02	578.91	578.79	578.63	578.45
1946	578.36	578.40	578.57	578.74	578.85	579.03	579.04	578.84	578.56	578.29	578.01	577.77
1947	577.63	577.56	577.53	577.89	578.55	579.02	579.25	579.24	579.09	578.91	578.64	578.26
1948	577.92	577.80	577.98	578.35	578.65	578.82	578.83	578.65	578.30	577.82	577.54	577.41
1949	577.26	577.24	577.24	577.37	577.56	577.77	577.92	577.79	577.48	577.16	576.88	576.67
1950	576.66	576.77	576.93	577.32	577.70	577.97	578.22	578.29	578.21	578.06	577.89	577.76
1951	577.74	577.84	578.05	578.59	579.09	579.29	579.51	579.65	579.57	579.54	579.60	579.56
1952	579.57	579.58	579.60	579.93	580.29	580.46	580.64	580.73	580.52	579.98	579.53	579.32
1953	579.12	578.98	579.02	579.22	579.46	579.72	579.89	579.87	579.65	579.33	578.99	578.64
1954	578.36	578.28	578.36	578.62	578.98	579.34	579.58	579.54	579.41	579.46	579.47	579.22
1955	578.99	578.83	578.77	578.96	579.20	579.27	579.20	578.98	578.58	578.27	578.09	577.83
1956	577.64	577.59	577.63	577.84	578.21	578.49	578.60	578.66	578.48	578.11	577.79	577.54
1957	577.34	577.22	577.19	577.33	577.63	577.93	578.14	578.09	577.85	577.61	577.42	577.33
1958	577.29	577.21	577.13	577.16	577.18	577.18	577.25	577.19	577.04	576.83	576.54	576.24
1959	576.08	576.08	576.20	576.61	577.09	577.26	577.27	577.32	577.32	577.26	577.28	577.29
1960	577.30	577.33	577.33	577.63	578.35	578.89	579.10	579.11	578.91	578.54	578.25	577.97
1961	577.64	577.47	577.50	577.67	577.83	577.99	578.10	578.05	577.99	577.87	577.63	577.39
1962	577.23	577.23	577.32	577.50	577.74	577.90	577.88	577.78	577.58	577.30	576.96	576.60
1963	576.32	576.18	576.27	576.49	576.74	576.89	576.94	576.93	576.78	576.53	576.22	575.89
1964	575.66	575.53	575.45	575.61	575.91	576.09	576.18	576.19	576.11	575.92	575.72	575.58
1965	575.49	575.52	575.63	575.99	576.46	576.69	576.71	576.68	576.79	576.87	576.83	576.87
1966	576.85	576.80	576.99	577.26	577.44	577.55	577.54	577.40	577.14	576.81	576.74	576.85
1967	576.88	576.86	576.90	577.31	577.75	578.07	578.26	578.14	577.93	577.71	577.58	577.56

A.D.5

TABLE D-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	577.54	577.47	577.49	577.66	577.92	578.19	578.39	578.47	578.54	578.43	578.24	578.15
1969	578.12	578.10	578.07	578.29	578.73	579.17	579.49	579.48	579.16	578.88	578.71	578.49
1970	578.32	578.21	578.13	578.29	578.64	578.94	579.18	579.17	579.11	579.04	578.86	578.76
1971	578.67	578.65	578.79	579.09	579.41	579.60	579.71	579.69	579.53	579.31	579.06	578.98
1972	578.88	578.71	578.73	579.01	579.40	579.62	579.76	579.97	580.08	579.96	579.80	579.69
1973	579.67	579.62	579.79	580.16	580.60	581.00	581.09	581.06	580.84	580.51	580.21	579.92
1974	579.83	579.81	579.82	580.09	580.50	580.82	580.98	580.90	580.67	580.35	580.05	579.80
1975	579.61	579.57	579.66	579.86	580.17	580.46	580.55	580.45	580.23	579.82	579.51	579.38
1976	579.22	579.22	579.58	580.04	580.37	580.56	580.57	580.33	579.87	579.36	578.93	578.51

A.D.16

TABLE D-3

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	572.36	572.46	572.90	573.18	573.40	573.50	573.60	573.71	573.56	573.42	573.32	573.18
1901	572.67	572.00	572.26	571.73	572.87	573.57	573.82	573.83	573.69	573.40	573.21	573.28
1902	572.26	572.05	572.84	573.20	573.51	573.83	574.42	574.36	574.01	573.89	573.56	573.53
1903	573.56	573.26	573.66	574.23	574.35	574.41	574.44	574.26	574.18	573.93	573.64	573.78
1904	572.72	572.92	573.78	574.51	574.76	574.92	574.91	574.72	574.49	574.20	573.91	573.76
1905	572.73	572.48	572.85	573.53	574.08	574.57	574.74	574.66	574.43	574.20	573.92	573.82
1906	573.81	573.10	573.14	573.80	574.23	574.46	574.53	574.40	574.15	573.96	573.87	573.73
1907	573.91	573.55	573.52	574.16	574.42	574.63	574.74	574.61	574.40	574.29	574.03	573.91
1908	573.53	573.10	573.97	574.59	574.92	575.04	574.96	574.83	574.36	574.05	573.50	573.20
1909	573.09	572.43	572.64	573.62	574.27	574.51	574.44	574.25	573.95	573.56	573.42	574.00
1910	573.05	572.58	573.40	573.77	574.04	574.06	573.92	573.80	573.59	573.44	573.17	572.88
1911	571.92	571.83	572.47	573.05	573.25	573.38	573.28	573.15	573.05	573.04	572.91	573.01
1912	573.18	573.18	573.41	573.78	573.98	574.15	574.15	574.13	574.15	573.95	573.80	573.52
1913	573.79	573.30	573.62	575.02	575.14	575.03	574.89	574.67	574.31	574.06	573.98	573.79
1914	573.19	573.07	572.87	573.66	574.34	574.49	574.44	574.34	574.14	573.85	573.49	573.63
1915	572.35	572.81	572.68	573.05	573.33	573.45	573.65	573.84	573.78	573.56	573.27	573.16
1916	573.68	573.37	573.00	573.95	574.60	574.90	574.99	574.80	574.42	574.17	573.97	574.22
1917	574.18	573.79	573.75	574.46	574.85	575.21	575.51	575.40	575.01	574.76	574.64	574.26
1918	572.93	573.20	573.38	573.58	574.40	574.65	574.72	574.62	574.48	574.23	574.11	574.03
1919	574.33	573.74	574.08	574.63	575.16	575.26	575.01	574.84	574.54	574.30	574.11	573.65
1920	572.21	572.22	572.77	573.58	574.03	574.28	574.45	574.44	574.24	574.01	573.78	573.59
1921	573.61	572.50	573.59	574.17	574.45	574.43	574.34	574.09	573.87	573.65	573.42	573.45
1922	573.10	572.38	573.06	573.93	574.23	574.48	574.46	574.30	574.07	573.70	573.29	573.07
1923	572.67	572.33	572.55	573.04	573.44	573.72	573.71	573.49	573.30	573.08	572.82	572.71
1924	572.77	571.96	572.30	572.93	573.41	573.63	573.72	573.60	573.42	573.19	572.75	572.28
1925	571.83	571.49	572.18	572.49	572.45	572.53	572.52	572.42	572.23	571.95	571.80	571.47
1926	570.61	570.38	570.83	571.72	572.15	572.24	572.34	572.40	572.47	572.65	572.70	57[illegible]
1927	571.62	571.28	571.99	572.77	573.11	573.38	573.51	573.36	573.13	572.94	572.89	57[illegible]6
1928	573.02	572.49	572.30	573.17	573.64	573.98	574.26	574.27	574.05	573.97	573.97	574.02
1929	574.24	574.57	574.48	575.37	575.95	576.02	576.01	575.67	575.27	574.86	574.66	574.37
1930	574.55	574.33	574.85	575.14	575.17	575.11	575.08	574.78	574.43	574.13	573.64	573.40
1931	572.85	571.73	571.65	572.88	573.11	573.28	573.31	573.10	572.92	572.76	572.57	572.56
1932	572.83	573.15	572.44	572.95	573.31	573.31	573.25	573.09	572.83	572.47	572.33	572.85
1933	572.63	572.12	572.45	573.07	573.37	573.54	573.33	573.04	572.66	572.36	572.04	572.19

A.D.7

TABLE D-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	571.18	571.15	571.15	572.08	572.18	572.23	572.24	572.08	571.98	571.78	571.60	571.77
1935	571.44	571.29	571.62	572.00	572.36	572.42	572.59	572.59	572.31	572.03	571.87	571.63
1936	570.88	571.04	571.62	572.17	572.43	572.55	572.48	572.33	572.30	572.12	571.93	571.81
1937	572.13	571.98	572.21	572.72	573.08	573.19	573.37	573.22	572.82	572.51	572.25	572.47
1938	571.78	572.26	572.34	573.22	573.40	573.54	573.61	573.58	573.37	573.09	572.79	572.61
1939	572.44	571.73	572.08	573.11	573.39	573.54	573.59	573.49	573.31	572.98	572.75	572.51
1940	571.69	571.31	571.58	572.58	572.91	573.30	573.39	573.28	573.21	572.96	572.76	572.80
1941	572.38	571.69	571.93	572.41	572.75	572.86	572.84	572.66	572.49	572.41	572.44	572.33
1942	571.96	570.89	571.98	573.16	573.49	573.83	573.87	573.76	573.55	573.27	573.22	573.29
1943	572.82	572.52	573.22	573.74	574.60	575.02	575.21	575.02	574.68	574.33	574.05	573.68
1944	572.38	572.40	572.74	573.77	574.17	574.37	574.31	574.05	573.85	573.62	573.36	573.25
1945	572.63	572.39	573.23	573.74	574.22	574.55	574.68	574.46	574.25	574.34	573.99	574.10
1946	573.35	572.76	573.61	573.83	573.99	574.40	574.43	574.14	573.75	573.46	573.21	572.99
1947	572.50	572.39	572.81	574.02	574.53	575.03	574.98	574.84	574.57	574.16	573.82	573.57
1948	573.33	573.06	573.61	574.14	574.58	574.56	574.50	574.22	573.83	573.28	573.04	572.95
1949	573.14	573.23	572.88	573.37	573.46	573.51	573.49	573.26	572.93	572.67	572.33	572.35
1950	572.80	572.88	573.06	573.97	573.98	573.97	573.95	573.76	573.66	573.46	573.26	573.52
1951	573.18	573.34	573.99	574.51	574.79	574.88	574.89	574.77	574.52	574.32	574.35	574.76
1952	575.00	575.01	575.19	575.58	575.69	575.71	575.66	575.54	575.34	574.74	574.32	574.23
1953	574.25	574.17	574.42	574.59	574.81	575.08	575.06	574.89	574.56	574.17	573.87	573.60
1954	572.80	572.77	573.78	574.39	574.64	574.72	574.69	574.51	574.36	574.53	574.56	574.39
1955	574.39	573.98	574.56	574.75	574.83	574.75	574.61	574.34	574.04	573.77	573.48	573.40
1956	572.20	571.67	572.83	573.59	574.44	574.44	574.40	574.43	574.19	573.70	573.26	573.06
1957	572.29	572.37	572.92	573.43	573.72	573.80	574.11	573.83	573.56	573.18	572.92	573.06
1958	572.13	571.68	572.40	572.35	572.79	572.88	573.06	573.00	572.81	572.52	572.13	572.12
1959	571.16	571.40	572.40	572.90	573.18	573.17	573.03	572.92	572.73	572.69	572.66	572.85
1960	572.78	572.40	572.75	573.52	573.87	574.29	574.32	574.28	574.03	573.58	573.23	573.20
1961	572.63	572.63	573.07	573.47	573.90	573.91	573.86	573.78	573.60	573.25	572.93	572.77
1962	572.47	571.72	572.76	573.04	573.15	573.29	573.21	573.09	572.84	572.64	572.45	572.36
1963	571.76	571.40	571.97	572.41	572.56	572.62	572.51	572.42	572.20	571.90	571.62	571.53
1964	570.79	570.65	571.22	571.75	572.03	572.06	572.03	571.94	571.76	571.40	571.18	571.17
1965	570.75	570.98	571.73	572.19	572.37	572.42	572.37	572.25	572.22	572.16	572.10	572.18
1966	572.13	571.97	572.43	572.83	573.05	573.16	573.08	572.94	572.66	572.22	572.23	572.67
1967	572.80	572.36	572.80	573.28	573.51	573.68	573.75	573.56	573.26	573.14	573.03	573.27

A.D. 8

TABLE D-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	573.08	573.33	573.39	573.55	573.66	573.93	574.01	573.95	573.79	573.55	573.37	573.50
1969	573.56	573.62	573.57	574.08	574.53	574.85	575.06	574.92	574.45	574.07	573.87	573.66
1970	572.61	572.75	573.45	573.83	574.08	574.29	574.43	574.34	574.16	574.10	573.97	573.96
1971	573.89	573.75	574.18	574.42	574.50	574.69	574.63	574.55	574.50	574.45	574.13	574.06
1972	574.25	574.04	574.21	574.54	574.92	575.02	575.16	575.14	575.07	574.99	575.04	575.14
1973	575.22	575.06	575.51	575.83	575.99	576.33	576.29	576.10	575.77	575.42	575.18	575.14
1974	575.43	575.39	575.65	575.90	576.07	576.14	576.09	575.87	575.51	575.19	575.00	574.97
1975	575.10	575.11	575.25	575.50	575.55	575.74	575.67	575.57	575.53	575.15	574.83	574.86
1976	574.79	574.72	575.62	575.74	575.90	575.85	575.90	575.61	575.13	574.73	574.27	574.06

TABLE D-4

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	569.57	569.60	569.96	570.35	570.55	570.57	570.55	570.56	570.31	570.09	569.92	569.96
1901	569.84	569.47	569.39	569.77	569.80	570.22	570.40	570.32	570.27	569.96	569.83	569.83
1902	569.82	569.41	569.67	570.23	570.54	570.80	571.41	571.44	571.04	571.03	570.68	570.44
1903	570.37	570.39	570.86	571.57	571.56	571.53	571.48	571.26	571.12	570.80	570.38	570.14
1904	569.98	570.06	570.60	571.66	571.87	572.05	571.97	571.66	571.40	571.04	570.69	570.41
1905	570.13	569.80	569.75	570.44	571.01	571.53	571.60	571.46	571.24	570.94	570.63	570.61
1906	570.66	570.63	570.40	570.80	571.03	571.20	571.28	571.26	571.00	570.84	570.76	571.06
1907	571.40	571.08	570.87	571.25	571.40	571.76	571.79	571.54	571.29	571.19	570.95	570.83
1908	571.09	570.81	571.26	571.83	572.05	572.06	571.87	571.70	571.26	570.86	570.32	570.09
1909	570.08	570.13	570.42	570.68	571.46	571.77	571.59	571.37	570.97	570.44	570.29	570.15
1910	569.93	569.73	570.20	570.61	571.09	571.15	571.01	570.89	570.66	570.51	570.16	570.02
1911	569.76	569.72	569.69	570.15	570.40	570.48	570.33	570.18	570.08	570.06	569.82	570.11
1912	570.03	569.73	569.80	570.77	571.11	571.23	571.13	571.10	571.10	570.83	570.63	570.29
1913	570.91	571.14	571.08	572.56	572.47	572.30	572.06	571.72	571.24	570.91	570.78	570.76
1914	570.63	570.35	570.14	570.81	571.52	571.67	571.51	571.29	571.10	570.82	570.33	570.15
1915	569.96	570.08	570.16	570.15	570.33	570.50	570.70	570.96	570.91	570.71	570.30	570.19
1916	570.64	570.86	570.70	571.23	571.66	572.08	572.06	571.68	571.22	570.84	570.61	570.54
1917	570.61	570.31	570.46	571.42	571.77	572.29	572.62	572.34	572.03	571.68	571.69	571.32
1918	570.65	570.34	570.86	570.78	570.72	571.10	571.20	571.18	571.08	570.93	570.77	570.83
1919	570.80	570.79	571.03	571.62	572.21	572.34	572.06	571.79	571.45	571.17	570.96	570.64
1920	570.13	569.56	569.61	570.41	571.02	571.19	571.35	571.30	571.06	570.75	570.64	570.67
1921	570.69	570.58	570.72	571.38	571.68	571.59	571.46	571.13	570.86	570.53	570.48	570.56
1922	570.31	570.01	570.16	571.11	571.49	571.60	571.49	571.25	571.06	570.62	570.16	569.90
1923	569.95	569.63	569.76	570.24	570.59	570.82	570.78	570.49	570.27	569.96	569.71	569.96
1924	570.15	570.09	569.92	570.46	570.82	570.98	571.09	570.81	570.55	570.34	569.82	569.62
1925	569.45	569.28	569.66	569.99	569.96	569.82	569.76	569.71	569.55	569.23	569.12	569.07
1926	568.69	568.45	568.49	569.34	569.54	569.63	569.63	569.73	569.82	570.12	570.05	570.00
1927	569.62	569.39	569.55	570.11	570.39	570.64	570.64	570.51	570.20	569.90	569.77	570.43
1928	570.54	570.39	570.09	570.41	570.59	570.98	571.32	571.24	570.82	570.58	570.56	570.69
1929	570.77	570.82	571.26	572.22	572.88	572.84	572.79	572.43	572.03	571.62	571.52	571.51
1930	572.10	571.85	572.12	572.37	572.33	572.19	572.01	571.64	571.32	570.98	570.62	570.49
1931	570.29	569.94	569.61	569.97	570.28	570.45	570.48	570.30	570.03	569.79	569.60	569.63
1932	570.19	570.58	570.44	570.49	570.72	570.73	570.62	570.38	570.05	569.62	569.53	569.45
1933	569.77	569.73	569.86	570.43	570.83	570.83	570.59	570.29	569.89	569.56	569.16	569.12

A.D. 10

TABLE D-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	568.98	56[illegible].60	568.53	569.05	569.29	569.32	569.32	569.21	569.07	568.79	568.52	568.52
1935	568.59	[illegible].43	568.71	569.06	569.39	569.60	569.69	569.70	569.31	568.98	568.89	568.85
1936	568.44	[illegible].07	568.60	569.43	569.66	569.63	569.54	569.31	569.17	569.08	568.92	568.74
1937	569.37	569.97	569.85	570.17	570.72	570.85	571.10	570.87	570.30	569.78	569.47	569.27
1938	569.29	569.56	570.04	570.62	570.67	570.78	570.78	570.73	570.39	570.05	569.73	569.58
1939	569.48	569.40	569.70	570.25	570.59	570.66	570.63	570.51	570.16	569.82	569.59	569.44
1940	569.17	568.94	569.11	569.83	570.26	570.60	570.68	570.50	570.37	570.08	569.76	569.88
1941	570.20	569.79	569.58	569.78	569.91	570.03	569.96	569.78	569.52	569.28	569.18	569.16
1942	569.06	569.13	569.35	570.28	570.57	570.91	570.89	570.84	570.55	570.35	570.25	570.25
1943	570.50	570.23	570.38	570.85	571.70	572.30	572.32	572.08	571.63	571.22	570.96	570.66
1944	570.16	569.93	570.07	570.88	571.41	571.52	571.35	571.07	570.80	570.53	570.27	570.11
1945	569.94	569.65	570.38	571.06	571.39	571.80	571.86	571.60	571.26	571.43	571.11	570.88
1946	570.84	570.35	570.60	570.81	570.94	571.45	571.53	571.19	570.78	570.46	570.25	570.05
1947	570.05	570.05	569.95	571.08	571.85	572.45	572.23	571.99	571.68	571.16	570.81	570.64
1948	570.52	570.20	570.69	571.47	571.84	571.86	571.74	571.40	571.00	570.47	570.27	570.15
1949	570.33	570.65	570.81	570.91	570.97	570.92	570.79	570.49	570.12	569.87	569.52	569.48
1950	570.29	570.92	570.93	571.64	571.68	571.52	571.29	570.97	570.77	570.53	570.38	570.76
1951	570.79	570.80	571.38	571.85	572.08	572.06	571.92	571.62	571.25	570.97	570.94	571.11
1952	571.59	572.20	572.33	572.73	572.79	572.73	572.48	572.21	571.96	571.40	570.97	571.04
1953	571.16	571.21	571.45	571.70	571.90	572.11	571.93	571.73	571.33	570.93	570.62	570.50
1954	570.38	570.31	570.81	571.64	571.91	571.76	571.56	571.36	571.11	571.31	571.45	571.34
1955	571.58	571.32	571.84	572.11	572.11	571.92	571.66	571.47	571.07	570.84	570.57	570.51
1956	570.14	569.61	570.23	570.82	571.65	571.83	571.74	571.65	571.36	570.83	570.38	570.29
1957	570.15	570.10	570.28	570.93	571.26	571.31	571.52	571.14	570.78	570.36	570.07	570.22
1958	570.30	569.75	569.77	569.97	570.10	570.20	570.42	570.40	570.15	569.77	569.47	569.24
1959	569.11	569.47	569.85	570.42	570.75	570.68	570.43	570.17	569.84	569.76	569.65	569.85
1960	570.17	570.23	570.18	570.67	571.02	571.32	571.37	571.27	570.95	570.44	570.05	569.77
1961	569.59	569.52	570.17	570.73	571.45	571.40	571.24	571.13	570.87	570.35	569.96	569.82
1962	569.56	569.50	569.80	570.23	570.32	570.39	570.29	570.14	569.84	569.72	569.54	569.44
1963	569.15	568.83	569.12	569.82	569.97	569.94	569.73	569.61	569.31	568.96	568.72	568.53
1964	568.44	568.37	568.67	569.29	569.62	569.58	569.45	569.25	569.01	568.55	568.30	568.26
1965	568.49	568.66	569.20	569.56	569.82	569.80	569.65	569.49	569.36	569.16	569.06	569.14
1966	569.31	569.30	569.65	569.97	570.31	570.39	570.31	570.14	569.83	569.31	569.32	569.86
1967	569.88	569.93	570.00	570.54	570.89	570.87	570.88	570.67	570.31	570.13	570.08	570.27

A.D. 11

TABLE D-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	570.38	570.69	570.64	570.99	571.01	571.23	571.30	571.15	570.85	570.46	570.27	570.46
1969	570.55	570.90	570.76	571.36	571.88	572.18	572.36	572.13	571.57	571.10	570.79	570.82
1970	570.32	570.22	570.41	570.93	571.26	571.42	571.50	571.34	571.10	570.99	570.87	570.92
1971	570.80	570.73	571.25	571.44	571.51	571.67	571.52	571.36	571.36	571.45	571.05	570.99
1972	571.05	570.92	571.28	571.75	572.17	572.25	572.34	572.15	571.99	571.87	571.99	572.24
1973	572.32	572.28	572.58	573.13	573.17	573.45	573.35	573.06	572.60	572.24	571.96	571.98
1974	572.11	572.43	572.90	573.21	573.30	573.32	573.11	572.76	572.33	571.91	571.82	571.98
1975	572.11	572.22	572.62	572.68	572.75	572.85	572.69	572.51	572.56	572.21	571.91	571.89
1976	571.79	571.85	572.94	573.04	573.11	572.98	572.94	572.69	572.21	571.84	571.34	571.00

TABLE D-5

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.33	244.44	244.55	245.16	245.49	245.66	245.85	245.94	245.57	244.98	244.46	244.50
1901	244.17	243.94	243.81	245.03	245.53	245.67	245.49	245.18	244.81	244.18	243.68	243.72
1902	243.86	243.71	244.28	244.85	245.05	245.51	246.34	246.22	245.38	244.63	244.04	243.67
1903	243.60	243.83	244.58	245.52	245.49	245.35	245.56	245.44	244.94	244.34	243.74	243.36
1904	243.13	243.45	244.01	245.38	246.05	246.35	246.25	245.77	245.09	244.43	243.70	243.27
1905	243.32	243.12	243.23	244.32	245.05	245.64	245.92	245.72	245.09	244.35	243.77	243.65
1906	244.03	244.23	244.00	244.28	244.65	245.15	245.51	245.29	244.65	244.25	244.06	243.77
1907	244.29	244.43	244.17	244.57	244.96	245.37	245.54	245.41	244.85	244.46	244.13	243.85
1908	244.36	244.48	244.70	245.39	246.01	246.15	245.92	245.47	244.57	243.95	243.46	243.10
1909	242.98	243.22	243.65	244.36	245.56	245.78	245.57	245.22	244.58	243.94	243.57	243.49
1910	243.50	243.66	244.19	244.65	245.29	245.50	245.44	245.27	244.89	244.38	243.79	243.51
1911	243.36	243.46	243.60	244.29	245.10	245.57	245.74	245.49	245.21	244.95	244.54	244.36
1912	244.41	244.26	244.15	245.06	245.94	246.49	246.16	245.55	245.06	244.62	244.21	243.92
1913	244.48	244.99	244.84	245.87	246.08	246.08	245.77	245.31	244.70	244.17	243.89	243.65
1914	243.61	243.76	243.67	244.68	245.32	245.47	245.34	245.06	244.81	244.24	243.67	243.29
1915	243.23	243.60	243.92	244.12	244.62	244.96	245.12	245.52	245.28	244.69	243.92	243.56
1916	243.94	244.22	244.15	244.99	245.73	246.51	246.57	245.67	244.69	243.99	243.63	243.48
1917	243.57	243.66	244.01	245.11	245.34	245.77	246.15	245.76	245.02	244.38	244.11	243.77
1918	243.55	243.54	244.19	244.78	244.85	245.01	245.14	244.94	244.70	244.36	244.09	243.80
1919	244.04	244.09	244.13	244.65	245.53	246.14	245.82	245.19	244.54	244.02	243.70	243.47
1920	243.31	243.16	243.30	244.17	244.89	245.24	245.63	245.73	245.28	244.70	244.17	244.10
1921	244.33	244.29	244.47	244.94	245.20	245.29	245.24	244.92	244.55	244.23	243.99	243.84
1922	243.69	243.71	244.10	245.02	245.59	245.71	245.85	245.32	244.70	244.10	243.56	243.17
1923	243.16	243.10	243.40	244.28	245.08	245.88	245.97	245.67	245.23	244.74	244.39	244.35
1924	244.36	244.36	244.19	244.74	245.54	245.81	245.71	245.42	244.81	244.41	243.68	243.20
1925	242.88	242.87	243.71	244.29	244.50	244.63	244.60	244.43	244.12	243.75	243.69	243.68
1926	243.29	243.02	242.91	243.77	244.78	245.08	245.12	245.03	244.94	244.76	244.61	244.42
1927	244.19	244.02	244.12	244.38	244.53	245.07	245.35	245.32	244.86	244.44	244.13	244.61
1928	245.21	245.40	245.21	245.56	245.74	245.79	245.99	245.80	245.06	244.42	244.09	243.99
1929	244.22	244.57	244.69	245.76	246.62	246.72	246.48	245.92	245.15	244.51	244.05	243.73
1930	244.35	245.09	245.68	246.04	246.08	246.02	245.90	245.23	244.58	243.95	243.46	243.31
1931	243.20	243.11	243.19	243.80	244.50	245.14	245.21	244.99	244.63	244.24	243.95	243.80
1932	244.17	244.69	244.75	245.29	245.62	245.61	245.69	245.64	245.20	244.78	244.62	244.37
1933	244.41	244.36	244.47	245.44	246.01	246.04	245.93	245.63	245.27	244.71	244.17	243.97

A.D.J.3

TABLE D-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	243.93	243.73	243.60	244.24	244.86	245.01	245.07	244.69	244.35	244.05	243.63	243.30
1935	243.12	242.92	242.92	243.28	243.80	244.31	244.74	244.57	244.13	243.66	243.40	243.13
1936	242.76	242.28	242.64	244.29	245.00	245.09	244.90	244.47	244.14	243.85	243.69	243.35
1937	243.59	244.10	244.16	244.50	245.43	245.93	245.98	245.61	244.98	244.45	244.32	244.02
1938	243.82	244.17	244.51	245.02	245.19	245.37	245.47	245.60	245.28	244.79	244.05	243.67
1939	243.52	243.55	243.98	244.79	245.34	245.34	245.46	245.43	245.07	244.66	244.16	243.78
1940	243.48	243.10	242.98	243.90	245.14	245.73	245.71	245.28	244.74	244.41	244.05	244.04
1941	244.35	244.26	244.03	244.52	245.00	245.18	245.21	245.01	244.66	244.29	244.13	243.96
1942	243.90	243.88	244.32	245.28	245.58	245.82	245.67	245.53	245.01	244.48	244.12	243.87
1943	244.24	244.44	244.61	245.14	246.04	246.90	246.68	246.12	245.27	244.46	244.17	243.67
1944	243.43	243.42	243.52	244.24	245.14	245.51	245.54	245.09	244.58	244.03	243.55	243.43
1945	243.42	243.42	244.12	245.15	245.73	246.10	245.95	245.46	244.83	244.84	244.39	244.12
1946	244.29	244.37	244.51	244.37	244.36	244.89	245.08	244.86	244.41	244.11	243.90	243.57
1947	243.75	244.09	243.99	244.97	245.84	246.89	246.91	246.53	245.71	244.67	244.00	243.62
1948	243.61	243.56	244.03	245.05	245.46	245.60	245.39	244.99	244.43	243.87	243.67	243.53
1949	243.71	244.07	244.36	244.76	245.01	245.10	245.13	244.80	244.43	244.10	243.63	243.43
1950	243.99	244.49	244.60	245.67	245.82	245.72	245.56	245.28	244.86	244.33	244.02	244.06
1951	244.34	244.67	245.18	246.12	246.58	246.36	246.15	245.50	244.87	244.22	243.85	243.83
1952	244.37	245.18	245.50	246.27	246.57	246.65	246.21	245.61	244.95	244.28	243.69	243.70
1953	243.90	244.13	244.25	244.85	245.40	245.76	245.52	245.18	244.65	244.01	243.56	243.59
1954	243.53	243.76	244.52	245.22	245.97	245.86	245.50	244.99	244.64	244.44	244.27	244.04
1955	244.56	244.64	245.06	245.87	246.01	245.75	245.39	245.06	244.51	244.32	244.21	243.63
1956	243.42	243.37	243.70	244.45	245.48	245.76	245.44	245.02	244.69	244.05	243.55	243.44
1957	243.46	243.65	243.92	244.37	244.94	245.51	245.88	245.42	244.83	244.12	243.74	243.62
1958	243.81	243.81	244.05	244.79	245.50	245.86	245.91	245.80	245.63	245.18	244.60	244.13
1959	243.86	243.98	244.30	245.31	245.72	245.65	245.51	245.14	244.68	244.34	244.13	244.33
1960	244.43	244.85	244.81	245.56	246.55	246.45	245.99	245.39	244.69	244.04	243.61	243.18
1961	242.86	242.59	243.29	244.16	245.21	245.64	245.63	245.22	244.75	244.09	243.49	243.20
1962	242.93	242.80	242.96	243.92	244.72	244.99	244.90	244.84	244.43	244.25	243.95	243.84
1963	243.41	242.97	242.87	243.94	244.86	245.23	245.10	244.89	244.36	243.71	243.22	242.95
1964	242.49	242.22	242.24	243.07	243.90	244.30	244.32	244.02	243.57	242.84	242.19	241.80
1965	241.74	241.88	242.40	243.10	244.01	244.41	244.59	244.41	244.23	244.03	243.93	244.14
1966	244.15	244.07	244.43	244.68	244.86	245.22	245.19	244.90	244.58	244.10	243.75	243.99
1967	244.07	244.20	244.19	244.99	245.74	246.19	246.36	246.08	245.47	245.04	244.88	244.55

TABLE D-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.32	244.27	244.25	244.87	244.99	245.48	245.73	245.46	245.06	244.43	244.06	244.18
1969	244.26	244.49	244.30	244.92	245.60	246.02	245.86	245.41	244.66	244.03	243.81	243.77
1970	243.70	243.74	243.80	244.52	245.16	245.40	245.61	245.38	244.84	244.52	244.25	244.23
1971	244.28	244.28	244.66	245.24	245.78	245.67	245.49	245.14	244.92	244.45	243.95	243.83
1972	244.06	244.31	244.64	245.33	246.20	246.38	246.59	246.25	245.51	244.76	244.50	244.80
1973	245.50	246.08	246.41	247.30	247.39	247.22	246.60	245.73	244.90	244.34	243.97	244.00
1974	244.67	245.28	245.56	246.06	246.60	246.83	246.51	245.74	244.83	244.11	243.70	243.79
1975	243.98	244.44	244.96	245.48	245.74	245.77	245.43	245.02	244.73	244.56	244.18	244.03
1976	244.27	244.56	245.63	246.51	246.96	246.95	246.59	245.96	245.17	244.60	243.99	243.60

TABLE D-6

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.34	244.45	244.56	245.17	245.50	245.69	245.88	245.97	245.59	245.00	244.48	244.51
1901	244.14	243.88	243.76	245.01	245.50	245.64	245.46	245.16	244.80	244.18	243.68	243.72
1902	243.86	243.72	244.34	244.89	245.07	245.53	246.30	246.17	245.35	244.60	244.01	243.65
1903	243.60	243.84	244.58	245.52	245.46	245.32	245.55	245.43	244.93	244.33	243.74	243.37
1904	243.19	243.54	244.09	245.44	246.03	246.32	246.14	245.62	244.98	244.35	243.65	243.27
1905	243.38	243.21	243.39	244.50	245.18	245.74	245.99	245.78	245.14	244.40	243.80	243.65
1906	244.01	244.16	243.94	244.23	244.60	245.11	245.48	245.26	244.64	244.24	244.06	243.77
1907	244.27	244.30	244.05	244.48	244.89	245.31	245.49	245.37	244.82	244.43	244.11	243.82
1908	244.23	244.27	244.53	245.24	245.84	245.98	245.76	245.34	244.47	243.87	243.42	243.09
1909	243.02	243.30	243.71	244.41	245.59	245.80	245.59	245.24	244.60	243.95	243.58	243.51
1910	243.57	243.76	244.28	244.73	245.34	245.55	245.49	245.31	244.92	244.40	243.81	243.54
1911	243.43	243.56	243.69	244.37	245.16	245.63	245.80	245.55	245.27	245.01	244.58	244.40
1912	244.37	244.17	244.07	245.00	245.86	246.35	245.93	245.36	244.92	244.52	244.13	243.82
1913	244.28	244.63	244.52	245.60	245.77	245.79	245.54	245.13	244.56	244.06	243.79	243.61
1914	243.60	243.76	243.67	244.68	245.32	245.47	245.34	245.06	244.81	244.24	243.67	243.30
1915	243.29	243.67	243.97	244.16	244.66	245.00	245.16	245.55	245.29	244.70	243.93	243.56
1916	243.95	244.19	244.11	244.97	245.70	246.46	246.38	245.47	244.55	243.89	243.58	243.47
1917	243.59	243.69	244.04	245.14	245.34	245.77	246.11	245.69	244.96	244.34	244.09	243.77
1918	243.55	243.54	244.19	244.78	244.85	245.01	245.14	244.94	244.70	244.36	244.09	243.77
1919	243.93	243.93	244.01	244.55	245.45	246.04	245.68	245.08	244.47	243.96	243.67	243.46
1920	243.34	243.22	243.43	244.30	245.01	245.36	245.75	245.84	245.37	244.77	244.23	244.12
1921	244.20	244.09	244.29	244.77	245.07	245.20	245.16	244.85	244.48	244.16	243.93	243.80
1922	243.68	243.72	244.10	245.02	245.59	245.70	245.85	245.32	244.70	244.10	243.56	243.18
1923	243.20	243.20	243.58	244.52	245.28	246.06	246.11	245.78	245.31	244.81	244.45	244.40
1924	244.34	244.28	244.13	244.69	245.50	245.78	245.68	245.39	244.80	244.41	243.68	243.21
1925	242.94	243.00	243.89	244.43	244.62	244.74	244.71	244.54	244.23	243.86	243.80	243.74
1926	243.35	243.14	243.11	244.03	245.02	245.32	245.36	245.27	245.18	244.96	244.76	244.50
1927	244.14	243.92	244.04	244.31	244.47	245.01	245.29	245.26	244.83	244.42	244.11	244.54
1928	244.88	244.90	244.69	245.04	245.26	245.40	245.69	245.58	244.90	244.30	244.00	243.88
1929	244.00	244.26	244.44	245.53	246.37	246.45	246.10	245.52	244.85	244.28	243.88	243.67
1930	244.30	244.88	245.46	245.78	245.75	245.75	245.71	245.07	244.46	243.86	243.42	243.29
1931	243.24	243.20	243.36	244.03	244.73	245.37	245.44	245.22	244.86	244.47	244.18	244.05
1932	244.47	244.97	245.03	245.56	245.83	245.77	245.83	245.74	245.27	244.84	244.68	244.43
1933	244.47	244.41	244.55	245.52	246.04	246.06	245.95	245.65	245.29	244.73	244.19	244.01

A.3.16

TABLE D-6 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	244.03	243.90	243.85	244.55	245.17	245.32	245.37	244.99	244.63	244.27	243.74	243.41
1935	243.31	243.17	243.26	243.68	244.20	244.70	245.12	244.95	244.51	244.02	243.69	243.39
1936	243.07	242.65	243.10	244.78	245.36	245.34	245.15	244.72	244.39	244.10	243.92	243.58
1937	243.90	244.41	244.42	244.73	245.59	246.06	246.08	245.69	245.06	244.53	244.40	244.09
1938	243.91	244.30	244.62	245.11	245.26	245.43	245.53	245.66	245.33	244.82	244.08	243.70
1939	243.62	243.72	244.16	244.93	245.44	245.41	245.52	245.49	245.13	244.72	244.22	243.86
1940	243.60	243.29	243.25	244.22	245.44	245.95	245.88	245.40	244.84	244.49	244.11	244.10
1941	244.34	244.20	243.98	244.49	244.97	245.15	245.18	244.98	244.63	244.26	244.09	243.94
1942	243.95	244.00	244.49	245.43	245.70	245.92	245.74	245.58	245.05	244.50	244.13	243.88
1943	244.20	244.32	244.49	245.02	245.95	246.75	246.38	245.78	244.98	244.21	243.98	243.58
1944	243.42	243.44	243.53	244.25	245.15	245.52	245.55	245.10	244.59	244.04	243.56	243.44
1945	243.48	243.54	244.28	245.28	245.83	246.15	246.02	245.47	244.84	244.85	244.40	244.10
1946	244.16	244.17	244.35	244.24	244.25	244.80	245.01	244.82	244.37	244.08	243.88	243.56
1947	243.75	244.09	243.98	244.96	245.84	246.89	246.88	246.37	245.53	244.52	243.89	243.58
1948	243.60	243.56	244.03	245.05	245.46	245.60	245.39	244.99	244.43	243.87	243.67	243.53
1949	243.75	244.09	244.38	244.78	245.01	245.10	245.13	244.80	244.43	244.10	243.63	243.44
1950	244.05	244.55	244.65	245.71	245.82	245.72	245.56	245.28	244.86	244.33	244.02	244.04
1951	244.21	244.44	244.98	245.94	246.38	246.11	245.95	245.35	244.76	244.12	243.77	243.79
1952	244.23	244.88	245.22	245.99	246.23	246.25	245.84	245.32	244.73	244.11	243.60	243.68
1953	243.87	244.05	244.18	244.80	245.36	245.72	245.49	245.16	244.64	244.01	243.56	243.59
1954	243.56	243.82	244.57	245.22	245.88	245.75	245.42	244.94	244.61	244.42	244.26	243.98
1955	244.29	244.27	244.76	245.61	245.73	245.50	245.20	244.91	244.40	244.24	244.14	243.60
1956	243.44	243.39	243.71	244.45	245.48	245.74	245.42	245.00	244.67	244.03	243.54	243.45
1957	243.54	243.76	244.03	244.45	245.01	245.58	245.95	245.47	244.86	244.15	243.77	243.66
1958	243.89	243.94	244.25	245.03	245.74	246.10	246.15	246.04	245.87	245.37	244.75	244.26
1959	244.05	244.24	244.55	245.54	245.90	245.79	245.61	245.23	244.77	244.43	244.22	244.39
1960	244.57	244.71	244.66	245.40	246.19	246.30	245.84	245.27	244.59	243.99	243.58	243.17
1961	242.90	242.69	243.47	244.39	245.29	245.65	245.61	245.09	244.58	243.94	243.50	243.32
1962	243.14	243.08	243.34	244.36	245.14	245.42	245.33	245.26	244.85	244.66	244.37	244.24
1963	243.80	243.42	243.37	244.45	245.38	245.74	245.62	245.49	245.00	244.43	244.00	243.76
1964	243.37	243.16	243.20	243.95	244.67	245.06	245.07	244.79	244.37	243.67	242.99	242.46
1965	242.16	242.04	242.33	242.89	243.69	243.97	244.14	243.95	243.73	243.46	243.38	243.66
1966	243.75	243.71	244.11	244.39	244.57	244.94	244.90	244.61	244.29	243.81	243.52	243.79
1967	243.93	244.09	244.11	244.97	245.71	246.24	246.41	246.12	245.49	245.06	244.88	244.56

TABLE D-6 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.41	244.44	244.27	244.80	244.87	245.29	245.51	245.25	244.88	244.28	243.93	244.04
1969	244.03	244.29	244.08	244.72	245.41	245.85	245.72	245.29	244.55	243.94	243.73	243.70
1970	243.63	243.72	243.76	244.44	245.08	245.32	245.53	245.30	244.76	244.44	244.18	244.10
1971	244.02	244.04	244.43	245.03	245.53	245.44	245.27	244.94	244.75	244.29	243.81	243.73
1972	243.90	243.99	244.19	244.96	245.84	245.99	246.24	245.89	245.16	244.50	244.31	244.56
1973	245.14	245.78	246.18	247.08	247.27	247.34	247.03	246.42	245.63	245.03	244.54	244.42
1974	244.86	245.38	245.71	246.30	246.77	246.96	246.79	246.27	245.48	244.72	244.19	244.17
1975	244.46	244.81	245.28	245.82	246.02	246.08	245.74	245.27	244.92	244.71	244.29	244.06
1976	244.25	244.58	245.65	246.48	246.98	247.16	247.13	246.74	245.97	245.36	244.66	243.94

TABLE D-7

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.34	244.45	244.56	245.17	245.50	245.69	245.88	245.97	245.59	245.00	244.48	244.51
1901	244.14	243.88	243.76	245.01	245.50	245.64	245.46	245.16	244.80	244.18	243.68	243.72
1902	243.86	243.72	244.35	244.90	245.08	245.54	246.31	246.18	245.35	244.60	244.01	243.65
1903	243.60	243.84	244.58	245.45	245.40	245.27	245.51	245.39	244.90	244.31	243.73	243.37
1904	243.22	243.57	244.11	245.44	245.97	246.13	245.92	245.47	244.87	244.26	243.59	243.24
1905	243.37	243.21	243.39	244.49	245.17	245.74	245.99	245.78	245.14	244.40	243.80	243.65
1906	244.01	244.15	243.93	244.22	244.60	245.11	245.48	245.26	244.64	244.24	244.06	243.77
1907	244.27	244.28	244.02	244.45	244.87	245.29	245.47	245.35	244.81	244.42	244.10	243.81
1908	244.22	244.22	244.44	245.09	245.69	245.80	245.61	245.23	244.38	243.81	243.41	243.09
1909	243.05	243.33	243.74	244.44	245.61	245.79	245.57	245.22	244.58	243.94	243.57	243.50
1910	243.59	243.78	244.29	244.73	245.34	245.55	245.49	245.31	244.92	244.40	243.81	243.54
1911	243.47	243.61	243.72	244.39	245.18	245.65	245.82	245.57	245.29	245.03	244.60	244.42
1912	244.39	244.19	244.09	245.02	245.87	246.29	245.87	245.32	244.88	244.48	244.11	243.82
1913	244.28	244.60	244.44	245.43	245.59	245.65	245.43	245.05	244.49	244.00	243.76	243.60
1914	243.60	243.76	243.67	244.68	245.32	245.47	245.34	245.06	244.81	244.24	243.67	243.30
1915	243.32	243.71	243.99	244.17	244.67	245.01	245.17	245.56	245.29	244.70	243.93	243.57
1916	243.95	244.17	244.09	244.94	245.67	246.37	246.27	245.39	244.49	243.84	243.56	243.46
1917	243.60	243.70	244.05	245.15	245.35	245.78	246.12	245.71	244.97	244.35	244.09	243.77
1918	243.55	243.54	244.15	244.72	244.80	244.96	245.10	244.91	244.68	244.34	244.07	243.75
1919	243.92	243.90	243.94	244.48	245.40	245.98	245.62	245.03	244.43	243.93	243.66	243.46
1920	243.35	243.24	243.44	244.31	245.02	245.37	245.76	245.85	245.38	244.78	244.23	244.12
1921	244.20	244.08	244.25	244.68	244.98	245.13	245.12	244.82	244.46	244.15	243.92	243.79
1922	243.68	243.73	244.11	245.03	245.54	245.67	245.82	245.30	244.68	244.08	243.54	243.17
1923	243.23	243.26	243.64	244.56	245.32	246.10	246.14	245.81	245.34	244.83	244.47	244.42
1924	244.36	244.30	244.14	244.70	245.51	245.79	245.69	245.40	244.80	244.41	243.68	243.21
1925	242.96	243.04	243.93	244.47	244.65	244.77	244.74	244.57	244.26	243.89	243.83	243.77
1926	243.37	243.18	243.16	244.08	245.07	245.37	245.41	245.32	245.23	245.00	244.80	244.54
1927	244.16	243.92	244.04	244.28	244.45	244.99	245.27	245.24	244.81	244.40	244.10	244.53
1928	244.87	244.80	244.49	244.81	245.07	245.26	245.58	245.48	244.81	244.23	243.95	243.84
1929	243.96	244.21	244.37	245.42	246.19	246.13	245.80	245.27	244.65	244.13	243.78	243.63
1930	244.28	244.83	245.57	245.62	245.58	245.62	245.61	245.01	244.41	243.82	243.40	243.28
1931	243.25	243.24	243.41	244.08	244.78	245.42	245.49	245.27	244.91	244.52	244.23	244.10
1932	244.53	244.96	244.88	245.33	245.64	245.63	245.71	245.65	245.21	244.79	244.63	244.38
1933	244.42	244.37	244.52	245.49	246.03	246.06	245.95	245.65	245.29	244.73	244.19	244.04

TABLE D-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	244.08	243.98	243.94	244.63	245.25	245.40	245.46	245.08	244.72	244.38	243.87	243.57
1935	243.48	243.38	243.48	243.89	244.41	244.92	245.35	245.18	244.74	244.26	243.95	243.68
1936	243.39	243.00	243.47	245.13	245.63	245.55	245.36	244.93	244.60	244.31	244.14	243.83
1937	244.16	244.62	244.55	244.82	245.67	246.12	246.12	245.72	245.08	244.55	244.42	244.11
1938	243.95	244.36	244.66	245.12	245.27	245.44	245.54	245.67	245.34	244.83	244.09	243.72
1939	243.64	243.75	244.19	244.95	245.46	245.43	245.54	245.51	245.15	244.74	244.24	243.89
1940	243.66	243.37	243.34	244.31	245.52	246.02	245.94	245.45	244.87	244.52	244.14	244.12
1941	244.36	244.22	244.00	244.51	244.99	245.17	245.20	245.00	244.65	244.28	244.12	243.99
1942	244.03	244.09	244.59	245.42	245.67	245.89	245.72	245.57	245.04	244.49	244.13	243.88
1943	244.20	244.31	244.45	244.93	245.86	246.59	246.20	245.60	244.80	244.08	243.88	243.54
1944	243.43	243.44	243.53	244.25	245.15	245.52	245.55	245.10	244.59	244.04	243.56	243.45
1945	243.52	243.61	244.36	245.34	245.88	246.19	246.05	245.50	244.87	244.88	244.36	243.99
1946	244.09	244.10	244.24	244.12	244.16	244.72	244.95	244.77	244.34	244.05	243.85	243.55
1947	243.74	244.08	243.98	244.96	245.84	246.76	246.59	246.03	245.08	244.12	243.63	243.50
1948	243.58	243.56	244.03	245.05	245.46	245.60	245.39	244.99	244.43	243.87	243.67	243.54
1949	243.76	244.10	244.39	244.79	245.01	245.10	245.13	244.80	244.43	244.10	243.63	243.44
1950	244.07	244.56	244.66	245.69	245.82	245.72	245.56	245.28	244.86	244.33	244.02	244.04
1951	244.21	244.42	244.92	245.76	246.05	245.81	245.71	245.17	244.62	244.02	243.72	243.78
1952	244.23	244.85	245.15	245.83	245.97	245.98	245.64	245.16	244.60	244.02	243.56	243.67
1953	243.86	244.04	244.18	244.80	245.36	245.72	245.49	245.16	244.64	244.01	243.56	243.59
1954	243.57	243.83	244.58	245.23	245.87	245.74	245.41	244.93	244.60	244.41	244.26	243.98
1955	244.29	244.24	244.69	245.44	245.48	245.31	245.06	244.81	244.32	244.18	244.10	243.59
1956	243.43	243.39	243.71	244.45	245.48	245.74	245.42	245.00	244.67	244.03	243.54	243.46
1957	243.55	243.78	244.04	244.46	245.02	245.59	245.96	245.48	244.86	244.15	243.77	243.66
1958	243.90	243.97	244.29	245.07	245.78	246.14	246.19	246.08	245.91	245.41	244.79	244.30
1959	244.11	244.32	244.61	245.53	245.88	245.78	245.60	245.22	244.76	244.42	244.21	244.38
1960	244.56	244.67	244.58	245.31	246.07	246.11	245.70	245.16	244.51	243.93	243.55	243.15
1961	242.89	242.70	243.49	244.41	245.31	245.66	245.62	245.10	244.59	243.95	243.51	243.33
1962	243.16	243.12	243.37	244.39	245.17	245.45	245.36	245.29	244.88	244.69	244.39	244.25
1963	243.83	243.48	243.43	244.51	245.44	245.80	245.68	245.55	245.06	244.49	244.09	243.86
1964	243.49	243.31	243.34	244.07	244.79	245.18	245.20	244.92	244.50	243.82	243.16	242.67
1965	242.41	242.32	242.63	243.17	243.97	244.26	244.44	244.25	244.03	243.77	243.72	243.95
1966	243.94	243.83	244.19	244.41	244.58	244.95	244.91	244.62	244.30	243.82	243.53	243.81
1967	243.96	244.13	244.14	244.99	245.73	246.26	246.43	246.13	245.50	245.07	244.89	244.57

A.D. 2120

TABLE D-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.41	244.36	244.12	244.60	244.70	245.15	245.40	245.17	244.81	244.22	243.89	244.00
1969	244.00	244.24	243.99	244.65	245.37	245.82	245.69	245.27	244.53	243.93	243.72	243.70
1970	243.63	243.72	243.76	244.44	245.08	245.32	245.53	245.30	244.76	244.44	244.18	244.10
1971	244.02	244.01	244.35	244.90	245.40	245.33	245.19	244.89	244.70	244.27	243.80	243.72
1972	243.90	243.98	244.15	244.91	245.78	245.91	246.14	245.69	244.83	244.16	244.07	244.30
1973	244.83	245.47	245.89	246.72	246.79	246.75	246.34	245.69	244.91	244.37	244.00	244.06
1974	244.57	245.10	245.44	245.94	246.28	246.35	246.08	245.50	244.74	244.10	243.84	244.01
1975	244.33	244.68	245.14	245.62	245.77	245.88	245.58	245.14	244.81	244.64	244.17	243.96
1976	244.20	244.50	245.54	246.27	246.61	246.66	246.52	246.03	245.19	244.56	243.93	243.61

A.D.21

TABLE D-8

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 61

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	83	82	82	82	114	114	110	116	122	123	121	83
1901	82	81	81	81	99	90	99	109	102	82	110	70
1902	70	70	70	70	80	81	81	70	67	70	90	70
1903	70	70	70	70	81	100	91	99	92	91	95	70
1904	70	70	70	70	70	70	70	67	77	92	115	70
1905	70	70	70	70	80	87	92	93	118	117	114	77
1906	76	76	75	75	85	82	87	82	82	82	82	67
1907	67	67	67	67	81	87	87	88	118	117	114	70
1908	70	70	70	70	70	76	82	82	77	82	55	55
1909	55	55	55	55	75	81	70	87	87	82	90	76
1910	76	75	75	75	80	70	67	55	55	55	55	55
1911	55	55	55	55	55	67	67	81	90	93	55	67
1912	67	67	67	67	84	76	76	70	70	55	67	55
1913	55	55	55	55	81	81	77	88	88	116	115	77
1914	76	75	75	75	80	81	82	82	77	82	67	70
1915	70	70	69	69	75	76	89	86	76	105	113	86
1916	86	85	84	85	105	118	120	120	120	120	117	77
1917	76	76	76	76	81	76	95	55	71	71	55	67
1918	67	67	67	67	70	90	70	71	71	55	82	82
1919	82	81	80	80	100	76	70	67	55	55	55	55
1920	55	55	55	55	102	102	105	116	87	55	55	67
1921	67	67	67	67	80	81	76	76	67	55	55	55
1922	55	55	55	55	67	55	55	55	55	55	55	55
1923	55	55	55	55	67	55	55	55	55	55	55	55
1924	55	55	55	55	55	55	55	55	55	55	55	55
1925	55	55	55	55	67	55	55	55	55	55	55	55
1926	55	55	55	55	55	55	55	55	55	75	87	67
1927	67	67	67	67	99	106	110	110	113	110	110	67
1928	67	67	67	67	85	86	95	103	117	118	117	77
1929	76	76	76	76	103	90	67	82	55	55	55	67
1930	67	67	67	67	76	76	102	82	70	70	55	67
1931	67	67	67	67	69	70	67	70	55	55	70	70
1932	70	70	69	69	79	84	76	85	95	67	55	67
1933	67	67	67	67	74	75	70	70	67	70	75	67

A.D. 2

TABLE D-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	67	67	67	67	82	90	84	80	75	104	107	84
1935	83	82	82	82	92	87	92	103	97	80	106	70
1936	69	69	69	69	95	103	102	88	88	70	55	55
1937	55	55	55	55	95	101	92	103	104	88	94	70
1938	69	69	69	70	96	96	103	100	100	90	93	76
1939	75	75	75	75	95	104	112	116	115	111	95	67
1940	67	67	67	67	69	75	88	80	67	55	55	55
1941	55	55	55	55	83	80	88	80	85	111	110	70
1942	70	70	69	70	80	89	76	81	81	70	99	76
1943	75	75	75	75	76	82	115	92	112	71	55	67
1944	67	67	67	67	75	81	99	111	117	115	94	76
1945	75	75	75	76	106	100	87	87	96	82	55	70
1946	70	70	70	70	89	81	82	82	77	95	112	76
1947	75	75	75	75	80	81	104	87	92	87	67	67
1948	67	67	67	67	88	76	70	70	76	55	55	67
1949	67	67	67	67	75	80	81	96	85	76	104	70
1950	69	69	69	69	75	103	112	116	116	115	114	86
1951	85	84	84	85	103	107	117	118	119	119	117	77
1952	77	76	76	76	105	91	106	115	109	82	55	55
1953	55	55	55	55	90	114	119	120	119	114	82	67
1954	67	67	67	67	97	109	117	116	77	70	55	55
1955	55	55	55	55	86	81	82	82	87	81	97	76
1956	75	75	74	74	70	70	70	70	67	55	55	67
1957	67	67	67	67	83	75	76	76	67	55	55	67
1958	67	67	67	67	74	69	70	70	75	80	67	70
1959	69	69	69	69	69	75	75	70	93	110	108	67
1960	67	67	67	67	75	81	70	70	55	55	55	67
1961	67	67	67	67	84	88	76	70	55	55	55	67
1962	67	67	67	67	75	75	75	70	67	70	55	55
1963	55	55	55	55	88	79	90	80	75	70	55	67
1964	67	67	67	67	85	94	99	93	103	106	104	74
1965	74	74	74	74	78	92	87	84	88	98	99	80
1966	79	79	79	79	93	96	92	85	102	80	106	70
1967	69	69	69	69	90	80	76	76	81	55	55	67

A.D. 23

TABLE D-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	67	67	67	67	87	81	103	117	118	119	117	82
1969	82	81	81	81	109	107	96	82	92	82	55	67
1970	67	67	67	67	85	100	95	99	82	71	99	82
1971	81	81	81	81	108	117	117	117	88	83	112	82
1972	81	81	81	81	98	99	92	119	120	117	88	70
1973	70	70	70	70	104	103	97	105	93	71	55	67
1974	67	67	67	67	102	99	108	107	107	83	55	77
1975	77	76	76	76	103	102	103	71	55	55	55	70
1976	70	70	70	70	106	91	96	55	55	55	55	55

TABLE D-9

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	149	143	142	182	187	190	196	201	204	206	206	198
1901	173	134	166	140	202	213	213	215	211	208	203	196
1902	155	160	193	194	195	199	198	200	199	194	193	188
1903	146	144	180	186	191	196	198	202	204	206	202	192
1904	164	159	165	193	202	209	210	211	210	210	207	198
1905	134	148	171	204	204	207	211	213	213	210	208	204
1906	202	160	180	209	211	212	213	210	207	204	201	185
1907	158	149	178	199	202	206	208	208	209	206	203	200
1908	147	140	173	196	202	209	214	212	209	203	199	193
1909	175	127	157	189	193	198	201	201	201	197	192	182
1910	147	148	186	191	194	196	197	195	194	191	188	174
1911	140	136	175	178	185	189	191	189	188	187	187	182
1912	142	150	166	175	188	197	200	202	202	202	200	199
1913	190	151	171	183	194	203	207	209	208	206	205	200
1914	166	164	175	198	195	200	204	204	202	200	196	183
1915	142	161	178	189	188	191	192	190	191	190	190	187
1916	174	151	157	192	199	208	214	214	213	213	212	205
1917	175	173	206	204	206	211	217	219	217	211	204	174
1918	151	169	184	170	224	227	226	223	217	213	210	206
1919	197	194	195	198	208	212	213	210	207	205	202	199
1920	134	145	182	202	208	209	210	211	211	208	202	196
1921	194	146	187	192	200	202	201	201	201	197	193	188
1922	155	148	178	192	201	203	207	206	203	199	195	190
1923	148	148	163	182	191	193	194	194	193	191	187	179
1924	157	128	162	171	180	183	185	189	190	184	181	160
1925	143	140	154	172	172	172	174	172	168	165	161	159
1926	115	122	133	156	164	170	174	172	170	165	166	166
1927	123	132	154	174	181	186	189	189	189	189	187	180
1928	151	129	148	192	198	201	204	206	209	212	215	211
1929	182	178	206	210	219	229	230	231	227	222	215	190
1930	168	176	200	198	202	210	214	215	210	203	199	191
1931	160	123	137	186	187	188	186	183	182	181	181	175
1932	170	168	145	172	173	177	179	180	178	177	173	160
1933	164	130	159	162	172	178	181	180	177	175	173	160

AD 95

TABLE D-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	122	134	145	167	173	176	177	174	173	174	174	169
1935	141	155	163	173	175	180	182	180	180	177	176	149
1936	139	143	161	173	177	181	181	182	181	180	175	171
1937	164	126	161	159	163	168	168	170	174	174	173	165
1938	139	155	143	178	183	189	191	192	193	190	187	182
1939	168	142	150	180	186	192	196	197	197	194	190	185
1940	132	148	156	174	176	179	183	186	185	183	180	177
1941	145	132	159	174	181	182	182	181	181	186	189	188
1942	155	113	169	187	191	195	197	195	193	192	189	184
1943	147	154	172	193	190	199	206	211	211	207	204	196
1944	148	167	171	194	192	196	200	201	201	200	197	190
1945	152	165	184	182	186	193	198	200	200	195	196	188
1946	165	156	194	201	202	201	201	200	198	195	191	186
1947	153	149	177	175	185	190	198	200	200	201	199	188
1948	170	165	176	186	187	192	194	193	190	185	182	177
1949	173	161	149	172	176	180	185	185	181	177	175	167
1950	154	135	142	160	171	178	186	191	190	189	187	179
1951	155	157	178	187	196	200	207	212	214	216	217	209
1952	202	197	200	207	216	220	227	231	228	222	216	209
1953	206	197	199	199	206	210	215	217	216	212	208	198
1954	166	154	189	190	196	204	212	213	212	211	211	204
1955	190	180	189	193	199	202	202	200	194	190	189	183
1956	140	140	167	180	177	185	189	190	189	187	185	179
1957	145	155	173	170	173	180	181	184	182	181	180	176
1958	142	131	166	164	176	175	174	173	172	171	169	158
1959	116	128	152	155	167	172	175	178	180	179	180	175
1960	164	144	165	176	191	199	204	205	203	200	197	179
1961	168	175	178	177	176	180	184	184	185	187	185	177
1962	152	144	174	179	185	187	188	187	185	181	175	164
1963	142	131	153	162	168	171	174	175	174	172	168	157
1964	136	130	149	151	155	159	162	163	163	164	162	157
1965	133	133	144	155	164	169	170	171	174	177	177	170
1966	167	160	168	176	179	180	181	179	177	175	173	169
1967	166	153	168	172	180	186	190	190	188	185	183	178

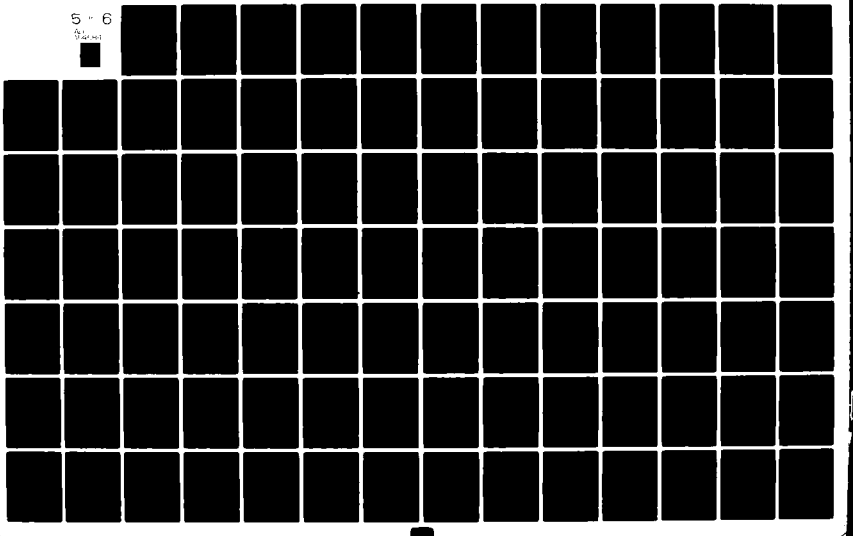
TABLE D-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	162	158	175	176	182	185	189	192	197	197	195	187
1969	160	176	183	185	190	198	203	205	204	202	200	189
1970	143	161	186	189	195	200	205	206	207	206	203	197
1971	182	174	192	202	210	212	216	217	213	208	206	197
1972	191	184	188	192	203	208	209	216	220	218	212	206
1973	202	191	200	210	220	226	230	232	231	227	222	211
1974	200	200	202	206	215	224	229	231	230	226	220	212
1975	200	196	193	205	215	220	224	223	217	211	208	202
1976	166	174	194	208	215	221	221	218	213	205	200	181

AD-A114 584 INTERNATIONAL LAKE ERIE REGULATION STUDY BOARD F/G 8/8
LAKE ERIE WATER LEVEL STUDY. APPENDIX A. REGULATION. VOLUME 2. --ETC(U)
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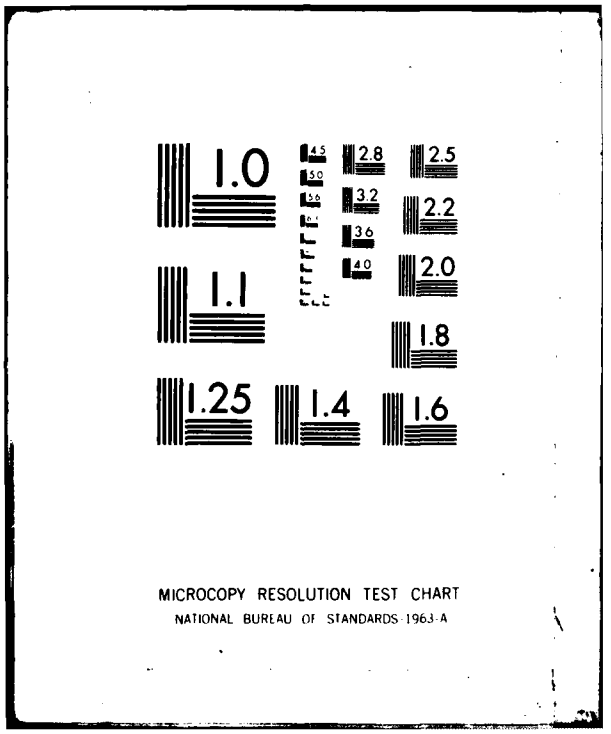

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TABLE D-10

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	153	149	150	186	189	193	198	203	205	205	206	197
1901	178	154	172	137	189	208	213	216	212	208	204	200
1902	155	166	188	189	195	201	208	204	201	196	192	197
1903	157	148	189	193	200	203	207	206	207	206	206	212
1904	171	178	172	204	209	210	213	214	212	210	208	204
1905	143	166	186	199	205	211	217	218	215	214	211	206
1906	203	159	182	198	212	217	218	213	210	206	204	185
1907	176	157	182	201	208	206	210	213	212	209	205	204
1908	156	157	183	201	210	215	218	218	210	209	202	193
1909	181	137	156	195	199	200	203	202	201	200	199	184
1910	168	150	180	196	201	200	198	196	195	193	192	179
1911	140	144	171	177	187	191	191	190	189	189	191	185
1912	146	150	170	182	197	201	205	205	206	206	205	203
1913	191	154	171	195	205	206	208	210	209	208	209	200
1914	177	170	177	193	200	202	206	209	205	201	201	196
1915	143	168	170	187	193	193	196	196	195	191	191	190
1916	187	161	156	192	208	208	213	217	215	215	213	214
1917	167	175	203	210	216	216	219	223	215	216	209	177
1918	162	177	178	190	230	229	230	226	222	215	215	209
1919	210	197	205	211	216	217	214	216	213	211	209	198
1920	141	153	185	202	203	209	211	213	212	211	204	194
1921	192	143	193	197	200	202	202	202	200	202	193	191
1922	169	155	183	188	196	204	208	208	204	201	197	193
1923	159	151	168	183	190	195	196	195	194	194	190	174
1924	166	131	160	168	180	185	186	190	190	187	184	167
1925	153	142	160	165	166	174	175	172	169	167	164	152
1926	121	120	139	154	166	167	171	171	171	170	174	172
1927	128	133	157	175	181	185	191	189	189	189	191	182
1928	170	149	152	183	199	202	204	207	210	214	215	214
1929	193	180	214	226	232	237	238	234	228	222	216	198
1930	177	184	204	209	213	214	219	218	212	209	198	191
1931	163	130	139	185	185	187	188	184	185	185	183	181
1932	170	176	146	168	179	179	180	181	180	177	174	173
1933	169	149	163	170	179	186	185	181	177	175	173	161

A.D. 28

TABLE D-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	132	135	155	170	175	176	177	173	173	173	173	172
1935	148	163	161	172	180	176	181	180	180	178	174	169
1936	147	146	159	169	175	181	181	181	184	179	176	171
1937	170	134	159	171	169	169	168	170	171	174	173	162
1938	144	161	158	179	185	188	192	192	193	192	188	184
1939	165	153	158	186	187	192	195	195	198	194	191	185
1940	142	149	155	172	177	183	185	186	187	185	186	184
1941	152	137	153	170	181	182	183	181	182	185	190	185
1942	161	121	165	188	193	197	200	196	196	190	191	188
1943	162	158	185	195	207	206	215	214	213	210	206	195
1944	156	165	174	195	196	202	205	202	202	200	197	196
1945	158	163	183	188	199	201	205	203	205	204	198	193
1946	175	167	197	201	204	206	204	202	198	195	191	187
1947	165	152	180	198	198	200	206	208	206	204	200	192
1948	181	175	191	192	201	199	200	199	194	187	182	180
1949	183	178	155	176	178	182	185	185	182	178	175	174
1950	171	150	158	178	177	183	190	192	194	193	189	186
1951	162	170	188	197	202	208	213	218	218	218	221	223
1952	218	209	214	218	222	225	232	235	234	224	218	212
1953	207	202	207	206	210	216	221	220	218	213	209	200
1954	167	167	198	199	201	211	216	214	215	217	213	208
1955	201	188	200	199	203	206	209	202	202	197	192	189
1956	148	143	174	189	201	194	196	200	199	194	188	181
1957	151	156	174	176	180	182	189	190	189	185	183	181
1958	139	136	169	161	176	177	178	176	176	175	168	164
1959	122	132	164	165	173	174	176	180	182	183	185	184
1960	174	154	169	191	195	205	205	206	205	201	198	181
1961	170	141	183	186	182	184	187	187	188	189	187	181
1962	153	148	182	183	186	190	189	188	187	182	179	167
1963	146	132	160	169	171	174	176	176	175	173	168	162
1964	142	133	154	157	158	161	164	166	166	165	163	160
1965	140	144	155	167	167	170	172	172	175	178	179	179
1966	172	166	175	183	181	183	183	182	180	176	176	179
1967	172	159	177	184	183	192	194	193	191	191	188	190

A.D. 2(?)

TABLE D-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	168	174	186	181	186	191	193	195	198	199	197	194
1969	169	188	190	194	196	202	205	207	204	202	203	193
1970	150	164	190	196	197	201	206	207	207	208	205	203
1971	184	182	203	207	208	212	215	216	214	208	207	202
1972	196	186	200	202	205	208	211	217	220	220	218	214
1973	212	197	220	216	223	230	232	233	233	228	227	219
1974	214	212	216	216	222	225	230	232	230	228	222	215
1975	208	206	206	216	216	222	224	226	222	216	211	208
1976	169	191	212	215	220	223	227	222	215	208	203	184

A.D. 30

TABLE D-11

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	188	188	193	198	209	206	202	204	201	197	195	198
1901	193	185	178	186	193	199	199	199	200	191	190	190
1902	186	177	184	194	205	209	218	220	213	214	207	208
1903	197	204	212	224	230	227	222	219	218	212	205	202
1904	196	197	206	226	237	238	233	227	224	217	211	207
1905	199	192	189	200	218	227	225	223	220	215	210	212
1906	210	209	202	207	219	220	218	218	212	210	209	216
1907	226	212	209	217	223	232	229	224	221	221	217	216
1908	219	206	217	228	241	238	230	228	221	210	200	196
1909	191	192	199	203	224	230	222	219	211	201	199	202
1910	195	191	198	203	220	216	210	208	205	203	197	194
1911	185	184	184	192	202	202	196	194	193	193	190	188
1912	197	191	190	207	220	220	215	215	217	213	210	205
1913	216	220	216	245	250	244	235	228	221	214	213	215
1914	210	203	197	208	226	227	220	217	214	209	200	197
1915	189	191	194	192	201	203	203	210	210	207	200	198
1916	210	214	208	216	232	239	235	228	220	213	210	210
1917	209	202	203	220	235	243	247	242	238	231	232	227
1918	203	203	212	207	212	218	216	217	217	211	213	216
1919	213	212	215	225	244	244	235	230	222	220	213	207
1920	192	180	183	197	215	217	217	219	217	211	210	208
1921	211	208	205	218	229	228	219	214	209	203	203	205
1922	196	189	194	212	225	226	220	218	217	208	197	197
1923	189	182	186	194	206	209	205	200	197	191	188	193
1924	193	191	189	198	211	213	211	207	202	199	190	186
1925	179	175	184	189	193	189	184	184	182	177	176	175
1926	164	159	161	176	184	185	181	184	188	195	198	199
1927	189	184	185	193	205	208	204	203	199	194	192	208
1928	208	204	196	199	209	215	219	218	212	208	208	213
1929	213	213	220	238	250	256	251	244	238	230	229	231
1930	241	235	239	241	243	239	231	224	219	213	206	204
1931	196	188	183	188	200	202	199	196	192	188	185	186
1932	194	201	200	199	209	207	201	198	192	185	184	183
1933	185	184	188	198	211	210	201	196	189	183	177	176

A.D. 31

TABLE D-11 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 6L

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	170	161	161	170	180	179	175	174	173	168	164	165
1935	162	158	165	172	182	184	185	186	181	172	171	171
1936	159	151	163	178	187	187	179	176	175	174	172	169
1937	177	189	187	192	209	210	212	208	197	188	183	179
1938	176	180	191	203	211	211	207	207	203	197	191	191
1939	186	184	188	196	206	208	204	203	198	192	189	183
1940	173	168	173	185	199	205	203	200	199	194	189	192
1941	194	185	182	185	195	193	188	186	181	178	180	182
1942	178	178	181	196	209	213	210	210	206	203	202	204
1943	207	201	202	208	233	243	240	236	229	221	217	213
1944	200	195	195	209	227	224	217	212	208	203	199	196
1945	189	182	198	213	226	232	230	226	221	226	220	217
1946	214	203	206	207	217	225	223	215	207	202	199	195
1947	191	190	189	211	233	244	238	234	230	220	214	212
1948	207	200	208	221	236	232	225	219	212	202	199	197
1949	197	202	207	208	214	211	205	200	194	190	184	183
1950	196	208	210	223	229	226	218	212	211	207	205	215
1951	213	212	223	230	241	238	232	226	221	216	216	222
1952	230	243	243	249	257	253	244	239	236	225	217	221
1953	221	214	221	226	234	239	232	226	219	212	210	204
1954	198	196	207	223	234	229	222	218	214	220	227	227
1955	230	223	233	235	242	235	224	221	213	210	205	204
1956	193	181	195	206	229	231	225	225	220	209	201	200
1957	193	191	196	208	220	220	221	214	207	200	195	198
1958	196	184	186	188	196	196	197	198	194	188	183	179
1959	172	178	188	198	209	206	198	193	188	187	190	196
1960	200	201	198	205	219	222	220	219	214	205	198	194
1961	188	186	197	206	228	222	215	213	209	199	193	190
1962	181	179	186	194	200	200	195	193	188	186	184	183
1963	173	166	173	185	193	191	183	182	177	172	168	165
1964	159	157	164	175	186	184	178	175	172	163	160	159
1965	160	163	174	180	190	188	182	180	178	179	178	182
1966	183	182	187	190	204	203	197	195	191	178	180	191
1967	187	188	190	200	216	210	209	206	201	198	198	204

TABLE D-11 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 61

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	204	210	207	211	218	220	218	216	212	205	202	208
1969	208	215	210	219	237	241	241	237	228	219	213	216
1970	203	194	199	208	220	222	220	218	214	216	215	218
1971	213	211	220	221	229	230	223	221	223	226	219	219
1972	218	215	221	227	243	242	241	238	237	235	239	246
1973	246	244	249	258	266	269	263	258	250	243	238	241
1974	241	248	256	260	268	266	258	251	244	236	235	241
1975	241	243	250	248	256	256	249	246	246	243	234	239
1976	234	228	254	256	264	259	254	250	241	231	221	215

TABLE D-12

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	212	218	232	235	242	214	217	221	242	247	233	253
1901	220	225	206	240	251	254	253	238	249	236	220	219
1902	215	210	225	240	223	213	248	292	286	272	256	233
1903	214	230	252	272	272	254	257	268	276	266	246	216
1904	210	214	230	266	282	290	294	302	295	279	251	212
1905	210	209	204	214	222	248	274	288	288	272	253	234
1906	220	251	246	236	226	226	247	260	256	248	256	252
1907	220	254	253	253	243	243	253	270	269	270	271	254
1908	220	256	265	279	292	296	297	296	272	254	226	212
1909	210	207	219	221	260	272	273	273	259	242	222	216
1910	210	210	227	234	244	246	239	250	255	251	238	216
1911	210	208	207	191	200	212	220	223	223	226	233	233
1912	220	232	228	242	263	274	284	279	271	270	270	253
1913	220	257	267	285	292	293	282	274	267	254	253	239
1914	214	234	224	242	254	256	254	248	258	251	234	216
1915	210	214	226	200	194	211	219	234	268	264	248	218
1916	219	246	246	257	274	289	303	305	276	250	231	215
1917	210	220	227	259	264	269	290	305	298	282	283	258
1918	219	226	252	269	254	241	246	249	256	260	270	247
1919	220	249	252	260	274	294	298	290	271	256	246	216
1920	210	208	204	197	198	217	220	249	269	264	259	251
1921	220	249	256	262	257	244	242	236	230	225	229	234
1922	214	214	228	245	264	265	280	273	266	251	226	212
1923	210	207	204	193	196	220	235	236	238	226	223	234
1924	220	235	228	226	242	252	256	262	253	254	232	212
1925	210	207	214	226	215	212	217	220	221	216	216	226
1926	210	207	204	188	198	209	216	220	224	252	262	260
1927	220	240	244	242	219	216	218	234	239	241	236	252
1928	220	256	260	262	261	250	262	276	276	261	259	247
1929	220	255	264	281	300	304	303	308	292	278	270	254
1930	220	259	280	295	297	287	288	276	265	250	221	213
1931	210	207	204	188	194	216	222	222	223	218	211	210
1932	212	240	244	248	254	235	224	230	229	218	224	220
1933	214	209	204	214	244	232	221	221	222	215	204	210

TABLE D-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	210	207	204	188	188	193	200	201	200	196	198	210
1935	210	207	204	188	188	193	205	211	210	200	198	210
1936	210	207	204	192	206	211	211	210	212	206	202	210
1937	210	222	229	203	224	222	248	250	238	221	227	218
1938	210	217	235	244	240	217	221	225	242	257	238	214
1939	210	207	216	230	244	229	218	220	222	222	213	210
1940	210	207	204	188	195	238	250	249	227	228	217	219
1941	220	233	221	196	192	204	210	214	215	207	204	210
1942	210	207	210	238	243	254	236	250	252	248	247	244
1943	220	249	256	262	278	299	304	310	299	272	271	248
1944	210	220	219	222	240	250	263	258	251	238	222	214
1945	210	207	218	256	270	284	292	292	276	293	291	272
1946	220	254	261	262	233	231	239	244	242	239	248	221
1947	217	244	239	256	277	298	303	310	308	284	265	240
1948	217	227	237	267	277	280	270	262	253	239	227	216
1949	213	232	243	246	239	221	220	222	223	222	213	210
1950	212	237	242	268	278	266	258	255	259	251	252	254
1951	220	257	274	287	300	308	301	288	278	263	256	250
1952	220	260	280	296	304	309	304	293	284	270	245	242
1953	220	248	250	262	262	276	269	270	262	247	226	221
1954	210	219	248	260	282	283	270	254	254	257	274	260
1955	220	256	272	286	293	281	263	260	255	253	275	247
1956	210	217	232	243	268	282	278	268	268	255	230	214
1957	210	219	226	223	215	220	252	259	252	232	218	214
1958	211	207	204	188	195	212	218	220	225	243	238	215
1959	210	207	220	243	256	252	238	221	221	220	216	229
1960	220	244	246	254	273	288	283	266	252	238	223	214
1961	210	207	204	201	224	258	254	250	250	234	236	216
1962	210	207	204	188	194	210	214	220	220	216	214	212
1963	208	207	198	187	192	206	214	219	218	213	205	210
1964	210	207	193	177	184	196	201	207	208	205	198	192
1965	185	182	179	182	176	190	202	206	202	204	208	220
1966	220	222	235	231	210	212	218	219	221	214	208	210
1967	210	211	204	206	213	220	237	251	250	256	272	274

TABLE D-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244	250	236	255	234	230	247	258	264	256	249	253
1969	232	252	252	261	270	285	293	289	272	252	244	238
1970	226	230	228	230	239	240	251	260	257	260	265	255
1971	234	247	263	270	285	273	262	258	266	263	258	244
1972	221	229	252	270	289	300	311	310	307	300	289	270
1973	250	284	298	324	337	350	350	324	317	306	293	269
1974	239	268	300	308	308	328	336	330	314	304	277	287
1975	255	250	287	302	304	308	287	281	285	292	286	266
1976	245	259	289	306	328	348	350	326	309	302	295	232

A.D.36

TABLE D-13

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
[illegible]00	212	218	232	235	242	213	217	222	242	247	233	253
1901	227	224	204	240	251	253	252	238	249	236	220	219
1902	216	206	224	241	224	214	254	291	286	272	255	232
[illegible]3	212	230	252	275	272	254	256	268	276	266	245	214
19[illegible]	205	216	231	270	285	290	305	299	293	278	248	210
1905	205	208	196	218	225	250	275	289	290	273	254	234
1906	224	254	245	235	226	225	246	259	256	248	256	252
1907	227	258	250	252	242	242	252	269	269	270	271	259
1908	228	256	260	282	292	297	295	294	269	250	224	210
1909	205	207	220	222	261	272	273	273	259	243	222	213
1910	205	212	229	236	245	247	240	250	255	251	238	213
1911	205	208	208	192	200	212	220	223	223	226	234	234
1912	230	230	227	242	266	282	284	275	268	268	268	262
1913	226	266	260	288	292	290	278	270	264	252	250	234
1914	212	234	224	242	254	256	254	248	258	251	234	214
1915	205	216	228	200	194	211	219	236	269	264	248	216
1916	222	247	246	258	274	293	316	301	272	248	226	214
1917	206	220	228	259	264	270	295	304	297	282	282	257
1918	219	226	252	269	254	241	246	249	256	260	270	256
1919	223	249	249	259	273	297	298	288	269	254	244	214
1920	205	206	198	199	198	217	220	252	270	266	260	262
1921	228	252	254	260	254	243	240	235	229	225	227	232
1922	212	214	228	245	264	264	280	273	266	251	226	210
1923	205	202	195	195	197	223	238	238	240	227	225	235
1924	230	234	227	225	240	251	255	261	252	254	232	210
1925	205	202	214	229	218	212	217	220	221	216	217	232
1926	205	202	195	188	201	209	216	220	226	256	266	271
1927	227	240	243	241	219	216	218	234	238	241	236	270
1928	234	262	260	262	254	242	256	271	272	258	257	258
1929	224	256	258	283	300	310	312	302	286	273	264	246
1930	227	270	282	300	296	282	283	273	262	246	220	210
1931	205	202	195	188	194	216	222	222	223	218	211	207
1932	214	240	244	252	258	238	227	232	230	218	224	222
1933	215	208	201	218	245	232	221	221	222	215	205	205

AD-37

TABLE D-13 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	205	202	195	188	188	194	200	201	202	205	205	205
1935	205	202	195	188	188	194	205	211	210	205	205	205
1936	205	202	195	200	218	212	211	210	212	206	205	205
1937	205	227	231	206	227	224	250	252	240	221	228	218
1938	205	217	237	247	241	218	221	226	242	258	238	212
1939	205	202	220	233	246	230	219	220	222	222	213	206
1940	205	202	195	188	199	244	254	252	229	230	217	220
1941	230	232	220	196	192	204	210	214	215	207	205	205
1942	205	202	208	240	245	256	238	252	253	249	247	244
1943	227	251	256	261	278	309	315	309	294	267	267	239
1944	205	221	219	223	240	250	263	258	251	238	222	212
1945	205	202	218	258	275	288	293	292	276	294	291	282
1946	226	254	257	260	231	229	238	243	241	239	246	220
1947	218	245	239	256	277	298	311	316	307	280	262	234
1948	216	227	238	267	277	280	270	262	253	239	227	214
1949	213	232	244	247	239	221	220	222	223	222	213	207
1950	209	239	243	270	279	266	258	255	259	251	252	261
1951	227	260	271	287	307	306	296	284	276	261	252	255
1952	226	270	277	299	308	311	297	287	279	267	236	242
1953	222	249	248	261	262	276	268	270	262	247	226	221
1954	205	220	249	262	290	280	268	253	254	256	274	276
1955	228	256	265	286	294	276	259	257	253	251	274	244
1956	207	218	232	243	268	284	278	268	268	254	230	211
1957	205	221	228	225	215	220	253	260	252	232	218	211
1958	207	203	198	188	195	212	218	220	225	247	240	214
1959	205	204	223	245	259	255	241	221	221	220	216	234
1960	232	245	246	254	273	286	283	264	250	234	222	210
1961	205	202	195	203	244	256	263	257	250	229	220	210
1962	205	202	195	188	196	210	214	220	220	217	213	215
1963	205	202	195	188	192	206	209	214	213	205	205	205
1964	205	202	195	188	188	196	201	203	204	205	205	205
1965	205	202	195	188	188	194	202	206	209	205	205	210
1966	218	220	232	230	210	212	218	219	221	212	205	206
1967	205	212	199	206	208	218	239	253	252	258	272	274

TABLE D-13 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	253	250	257	238	235	247	255	262	254	248	264
1969	224	257	252	259	268	283	291	288	272	252	243	240
1970	217	232	229	232	239	239	251	260	257	260	264	274
1971	225	250	258	273	284	271	261	256	264	262	255	248
1972	223	250	253	266	288	301	310	310	302	293	287	293
1973	235	280	297	321	324	325	322	316	308	301	294	290
1974	234	280	289	310	318	321	319	314	306	296	284	284
1975	230	268	278	303	307	302	294	286	288	295	289	282
1976	228	262	285	313	320	323	323	319	311	304	296	273

TABLE D-14

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	212	218	232	235	242	213	217	222	242	247	233	253
1901	227	224	204	240	251	253	252	238	249	236	220	218
1902	216	206	224	241	224	214	254	291	286	272	255	232
1903	212	230	256	279	270	253	255	267	275	265	245	213
1904	203	216	231	274	293	300	301	296	290	276	243	209
1905	203	206	197	218	225	250	275	289	290	273	254	234
1906	224	254	245	235	226	225	246	259	256	248	256	252
1907	227	262	250	251	241	241	252	268	268	270	271	258
1908	227	260	264	286	293	298	292	292	267	247	223	208
1909	203	208	220	222	263	275	273	273	259	242	222	212
1910	203	212	230	236	245	247	240	250	255	251	238	212
1911	203	208	208	192	200	212	220	223	223	226	234	234
1912	230	231	227	242	266	288	282	274	267	267	268	261
1913	226	271	263	297	288	287	276	268	263	252	248	233
1914	212	234	224	242	254	256	254	248	258	251	234	212
1915	203	217	228	201	194	211	219	236	269	264	248	216
1916	223	248	245	259	275	302	310	299	271	246	223	213
1917	205	220	228	259	264	270	294	304	297	282	282	257
1918	219	226	256	268	253	240	244	248	256	260	270	254
1919	223	253	253	258	272	300	296	287	268	254	242	213
1920	203	206	199	199	198	217	220	252	271	266	260	262
1921	228	253	258	262	252	241	239	234	228	225	227	232
1922	210	214	228	247	267	264	280	272	266	251	224	208
1923	203	200	196	195	197	224	239	239	240	227	225	235
1924	230	234	227	225	241	251	256	261	252	254	232	209
1925	203	200	216	230	218	212	217	220	221	216	217	233
1926	203	200	196	188	202	209	216	220	226	257	266	272
1927	227	241	244	242	219	216	218	233	238	240	236	270
1928	234	274	266	262	250	239	254	269	270	257	256	257
1929	223	260	261	287	310	315	309	298	281	270	258	242
1930	226	274	285	307	292	279	281	271	261	244	218	209
1931	203	200	196	188	194	216	222	222	223	218	211	206
1932	213	250	252	253	254	236	225	230	229	218	224	221
1933	214	208	200	217	244	232	221	221	222	215	204	203

A.D.40

TABLE D-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	203	200	196	188	188	193	200	201	202	203	203	203
1935	203	200	196	188	188	193	205	211	210	204	203	203
1936	203	200	196	205	224	214	211	210	212	206	203	203
1937	204	232	237	208	228	226	251	252	240	221	228	217
1938	203	218	238	249	241	218	221	226	243	258	238	210
1939	203	200	221	233	246	230	219	220	222	222	213	205
1940	203	200	196	188	200	245	255	253	230	230	217	221
1941	230	232	220	196	192	204	210	214	215	207	204	203
1942	203	200	212	247	244	256	237	251	253	248	247	244
1943	227	252	259	263	281	314	312	311	291	264	263	234
1944	203	222	219	223	240	250	263	258	251	238	222	211
1945	203	200	220	260	275	288	294	292	277	295	298	280
1946	226	258	260	260	230	228	236	242	241	238	246	219
1947	217	245	239	256	280	313	316	326	311	272	245	225
1948	215	226	238	267	277	280	270	262	253	239	227	213
1949	213	233	244	247	240	221	220	222	223	222	213	206
1950	208	239	243	273	278	266	258	255	259	251	252	261
1951	227	263	274	302	310	299	292	281	273	258	247	254
1952	226	274	280	308	313	308	293	284	276	265	231	240
1953	222	248	248	261	262	276	268	270	262	247	226	221
1954	204	221	249	265	290	280	268	252	254	256	274	276
1955	228	261	268	300	293	272	256	255	251	250	273	242
1956	206	218	232	243	268	284	278	268	268	254	230	210
1957	204	222	228	225	215	220	253	260	252	232	218	210
1958	206	202	198	189	195	212	218	220	227	248	241	214
1959	203	204	226	250	258	254	240	221	221	220	216	234
1960	232	248	248	256	280	286	280	261	248	233	221	209
1961	203	200	196	204	245	256	263	257	250	229	220	210
1962	203	200	196	188	196	210	214	220	220	218	213	216
1963	203	200	196	188	192	206	209	214	213	204	203	203
1964	203	200	196	188	188	196	201	203	204	203	203	203
1965	203	200	196	188	188	193	202	206	209	204	204	221
1966	224	222	236	233	210	212	218	219	221	212	204	206
1967	203	213	200	206	208	218	239	253	252	258	272	275

TABLE D-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	262	253	258	235	233	245	254	261	253	247	263
1969	224	261	252	257	267	282	291	288	271	251	242	240
1970	217	232	229	232	239	239	251	260	257	260	264	274
1971	225	255	262	276	283	269	259	254	263	261	255	248
1972	223	251	255	266	292	299	316	322	309	288	282	299
1973	234	280	295	333	334	334	328	318	304	293	279	281
1974	231	280	287	322	327	329	326	318	300	282	260	278
1975	228	270	280	312	306	298	290	284	286	295	294	274
1976	227	266	288	327	332	333	332	327	317	304	276	241

TABLE D-15

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	212	218	232	235	242	214	217	221	242	247	233	253
1901	220	225	206	240	251	254	253	238	249	236	220	219
1902	215	210	225	240	223	213	248	292	286	272	256	233
1903	214	230	252	272	272	254	257	268	276	266	246	216
1904	210	214	230	266	282	290	294	302	295	279	251	212
1905	210	209	204	214	222	248	274	288	288	272	253	234
1906	220	251	246	236	226	226	247	260	256	248	256	252
1907	220	254	253	253	243	243	253	270	269	270	271	254
1908	220	256	265	279	292	296	297	296	272	254	226	212
1909	210	207	219	221	260	272	273	273	259	242	222	216
1910	210	210	227	234	244	246	239	250	255	251	238	216
1911	210	208	207	191	200	212	220	223	223	226	233	233
1912	220	232	228	242	263	274	284	279	271	270	270	253
1913	220	257	267	285	292	293	282	274	267	254	253	239
1914	214	234	224	242	254	256	254	248	258	251	234	216
1915	210	214	226	200	194	211	219	234	268	264	248	218
1916	219	246	246	257	274	289	303	305	276	250	231	215
1917	210	220	227	259	264	269	290	305	298	282	283	258
1918	219	226	252	269	254	241	246	249	256	260	270	247
1919	220	249	252	260	274	294	298	290	271	256	246	216
1920	210	208	204	197	198	217	220	249	269	264	259	251
1921	220	249	256	262	257	244	242	236	230	225	229	234
1922	214	214	228	245	264	265	280	273	266	251	226	212
1923	210	207	204	193	196	220	235	236	238	226	223	234
1924	220	235	228	226	242	252	256	262	253	254	232	212
1925	210	207	214	226	215	212	217	220	221	216	216	226
1926	210	207	204	188	198	209	216	220	224	252	262	260
1927	220	240	244	242	219	216	218	234	239	241	236	252
1928	220	256	260	262	261	250	262	276	276	261	259	247
1929	220	255	264	281	300	304	303	308	292	278	270	254
1930	220	259	280	295	297	287	288	276	265	250	221	213
1931	210	207	204	188	194	216	222	222	223	218	211	210
1932	212	240	244	248	254	235	224	230	229	218	224	220
1933	214	209	204	214	244	232	221	221	222	215	204	210

A.D.4.3

TABLE D-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	210	207	204	188	188	193	200	201	200	196	198	210
1935	210	207	204	188	188	193	205	211	210	200	198	210
1936	210	207	204	192	206	211	211	210	212	206	202	210
1937	210	222	229	203	224	222	248	250	238	221	227	218
1938	210	217	235	244	240	217	221	225	242	257	238	214
1939	210	207	216	230	244	229	218	220	222	222	213	210
1940	210	207	204	188	195	238	250	249	227	228	217	219
1941	220	233	221	196	192	204	210	214	215	207	204	210
1942	210	207	210	238	243	254	236	250	252	248	247	244
1943	220	249	256	262	278	299	304	310	299	272	271	248
1944	210	220	219	222	240	250	263	258	251	238	222	214
1945	210	207	218	256	270	284	292	292	276	293	291	272
1946	220	254	261	262	233	231	239	244	242	239	248	221
1947	217	244	239	256	277	298	303	310	308	284	265	240
1948	217	227	237	267	277	280	270	262	253	239	227	216
1949	213	232	243	246	239	221	220	222	223	222	213	210
1950	212	237	242	268	278	266	258	255	259	251	252	254
1951	220	257	274	287	300	308	301	288	278	263	256	250
1952	220	260	280	296	304	309	304	293	284	270	245	242
1953	220	248	250	262	262	276	269	270	262	247	226	221
1954	210	219	248	260	282	283	270	254	254	257	274	266
1955	220	256	272	286	293	281	263	260	255	253	275	247
1956	210	217	232	243	268	282	278	268	268	255	230	214
1957	210	219	226	223	215	220	252	259	252	232	218	214
1958	211	207	204	188	195	212	218	220	225	243	238	215
1959	210	207	220	243	256	252	238	221	221	220	216	229
1960	220	244	246	254	273	288	283	266	252	238	223	214
1961	210	207	204	201	226	258	254	250	250	234	236	216
1962	210	207	204	188	194	210	214	220	220	216	214	212
1963	208	207	198	187	192	206	214	219	218	213	205	210
1964	210	207	193	177	184	196	201	207	208	205	198	192
1965	185	182	179	182	176	190	202	206	202	204	208	220
1966	220	222	235	231	210	212	218	219	221	214	208	210
1967	210	211	204	206	213	220	237	251	250	256	272	274

TABLE D-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244	250	236	255	234	230	247	258	264	256	249	253
1969	232	252	252	261	270	285	293	289	272	252	244	238
1970	226	230	228	230	239	240	251	260	257	260	265	255
1971	238	247	263	270	285	273	262	258	266	263	258	244
1972	221	229	252	270	289	300	311	310	307	300	289	270
1973	250	284	298	324	337	350	350	324	317	306	293	269
1974	239	268	300	308	308	328	336	330	314	304	277	287
1975	255	250	287	302	304	308	287	281	285	292	286	266
1976	245	259	289	306	328	348	350	326	309	302	295	232

TABLE D-16

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	212	218	232	235	242	213	217	222	242	247	233	253
1901	227	224	204	240	251	253	252	238	249	236	220	219
1902	216	206	224	241	224	214	254	291	286	272	255	232
1903	212	230	252	275	272	254	256	268	276	266	245	214
1904	205	216	231	270	285	290	305	299	293	278	248	210
1905	205	208	196	218	225	250	275	289	290	273	254	234
1906	224	254	245	235	226	225	246	259	256	248	256	252
1907	227	258	250	252	242	242	252	269	269	270	271	259
1908	228	256	260	282	292	297	295	294	269	250	224	210
1909	205	207	220	222	261	272	273	273	259	243	222	213
1910	205	212	229	236	245	247	240	250	255	251	238	213
1911	205	208	208	192	200	212	220	223	223	226	234	234
1912	230	230	227	242	266	282	284	275	268	268	268	262
1913	226	266	260	288	292	290	278	270	264	252	250	234
1914	212	234	224	242	254	256	254	248	258	251	234	214
1915	205	216	228	200	194	211	219	236	269	264	248	216
1916	222	247	246	258	274	293	316	301	272	248	226	214
1917	206	220	228	259	264	270	295	304	297	282	282	257
1918	219	226	252	269	254	241	246	249	256	260	270	256
1919	223	249	249	259	273	297	298	288	269	254	244	214
1920	205	206	198	199	198	217	220	252	270	266	260	262
1921	228	252	254	260	254	243	240	235	229	225	227	232
1922	212	214	228	245	264	264	280	273	266	251	226	210
1923	205	202	195	195	197	223	238	238	240	227	225	235
1924	230	234	227	225	240	251	255	261	252	254	232	210
1925	205	202	214	229	218	212	217	220	221	216	217	232
1926	205	202	195	188	201	209	216	220	226	256	266	271
1927	227	240	243	241	219	216	218	234	238	241	236	270
1928	234	262	260	262	254	242	256	271	272	258	257	258
1929	224	256	258	283	300	310	312	302	286	273	264	246
1930	227	270	282	300	296	282	283	273	262	246	220	210
1931	205	202	195	188	194	216	222	222	223	218	211	207
1932	214	240	244	252	258	238	227	232	230	218	224	222
1933	215	208	201	218	245	232	221	221	222	215	205	205

A.D. 46

TABLE D-16 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	205	202	195	188	188	194	200	201	202	205	205	205
1935	205	202	195	188	188	194	205	211	210	205	205	205
1936	205	202	195	200	218	212	211	210	212	206	205	205
1937	205	227	231	206	227	224	250	252	240	221	228	218
1938	205	217	237	247	241	218	221	226	242	258	238	212
1939	205	202	220	233	246	230	219	220	222	222	213	206
1940	205	202	195	188	199	244	254	252	229	230	217	220
1941	230	232	220	196	192	204	210	214	215	207	205	205
1942	205	202	208	240	245	256	238	252	253	249	247	244
1943	227	251	256	261	278	309	315	309	294	267	267	239
1944	205	221	219	223	240	250	263	258	251	238	222	212
1945	205	202	218	258	275	288	293	292	276	294	291	282
1946	226	254	257	260	231	229	238	243	241	239	246	220
1947	218	245	239	256	277	298	311	316	307	280	262	234
1948	216	227	238	267	277	280	270	262	253	239	227	214
1949	213	232	244	247	239	221	220	222	223	222	213	207
1950	209	239	243	270	279	266	258	255	259	251	252	261
1951	227	260	271	287	307	306	296	284	276	261	252	255
1952	226	270	277	299	308	311	297	287	279	267	236	242
1953	222	249	248	261	262	276	268	270	262	247	226	221
1954	205	220	249	262	290	280	268	253	254	256	274	276
1955	228	256	265	286	294	276	259	257	253	251	274	244
1956	207	218	232	243	268	284	278	268	268	254	230	211
1957	205	221	228	225	215	220	253	260	252	232	218	211
1958	207	203	198	188	195	212	218	220	226	247	240	214
1959	205	204	223	245	259	255	241	221	221	220	216	234
1960	232	245	246	254	273	286	283	264	250	234	222	210
1961	205	202	195	203	244	256	263	257	250	229	220	210
1962	205	202	195	188	196	210	214	220	220	217	213	215
1963	205	202	195	188	192	206	209	214	213	205	205	205
1964	205	202	195	188	188	196	201	203	204	205	205	205
1965	205	202	195	188	188	194	202	206	209	205	205	210
1966	218	220	232	230	210	212	218	219	221	212	205	206
1967	205	212	199	206	208	218	239	253	252	258	272	274

TABLE D-16 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	253	250	257	238	235	247	255	262	254	248	264
1969	224	257	252	259	268	283	291	288	272	252	243	240
1970	217	232	229	232	239	239	251	260	257	260	264	274
1971	225	250	258	273	284	271	261	256	264	262	255	248
1972	223	250	253	266	288	301	310	310	302	293	287	293
1973	235	280	297	321	324	325	322	316	308	301	294	290
1974	234	280	289	310	318	321	319	314	306	296	284	284
1975	230	268	278	303	307	302	294	286	288	295	289	282
1976	228	262	285	313	320	323	323	319	311	304	296	273

TABLE D-17

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	239	246	252	316	332	274	271	265	270	278	278	284
1901	251	235	223	346	359	327	282	256	268	257	244	247
1902	240	218	288	331	318	295	308	320	302	292	289	270
1903	238	256	327	362	340	306	300	295	287	290	261	220
1904	216	228	260	370	428	418	350	323	315	319	276	230
1905	220	215	213	284	300	307	308	311	308	293	279	254
1906	251	277	263	286	306	302	280	273	264	256	268	266
1907	251	271	267	306	329	315	296	288	285	298	308	292
1908	254	282	291	357	449	392	330	309	276	254	232	218
1909	218	224	236	312	420	379	314	306	284	264	243	235
1910	226	229	266	315	317	301	261	265	274	274	265	251
1911	220	219	216	253	302	275	246	236	233	236	247	260
1912	257	244	238	318	365	386	321	296	288	289	329	306
1913	277	306	318	393	374	331	294	278	274	267	285	270
1914	233	250	240	293	316	286	275	256	262	256	242	226
1915	217	231	244	238	250	246	244	253	282	279	260	230
1916	250	276	267	365	414	393	349	318	283	265	254	244
1917	227	237	248	338	359	357	350	340	318	301	310	277
1918	231	238	277	346	331	293	288	268	277	307	336	298
1919	257	272	293	345	404	386	323	300	285	285	292	252
1920	224	224	231	276	272	255	250	274	286	279	280	292
1921	250	265	316	350	322	273	256	247	238	239	247	256
1922	228	228	262	364	372	316	311	290	280	263	237	220
1923	214	208	208	249	321	293	270	257	260	240	244	264
1924	258	252	252	302	360	322	289	282	272	284	255	236
1925	218	227	265	318	295	273	256	246	241	237	251	268
1926	227	216	212	246	299	282	260	244	244	275	312	312
1927	257	273	302	290	274	270	259	264	256	261	292	322
1928	279	309	303	378	396	322	300	302	300	316	327	303
1929	265	290	317	391	442	378	348	318	298	290	285	261
1930	258	296	308	364	352	332	334	297	279	263	236	224
1931	216	212	212	232	237	246	238	237	235	230	228	231
1932	248	281	276	338	308	266	250	252	265	270	296	260
1933	251	233	224	333	340	276	243	243	258	230	218	218

A.D. 49

TABLE D-17 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	220	208	215	287	286	242	228	212	214	220	219	231
1935	236	223	237	245	241	228	238	231	226	219	225	224
1936	225	216	261	281	340	280	236	226	229	234	244	232
1937	254	272	273	284	318	267	272	272	256	242	275	252
1938	232	249	304	353	325	258	240	243	263	281	258	232
1939	226	224	249	305	344	284	253	248	240	240	237	228
1940	222	216	213	253	268	315	298	274	249	247	239	248
1941	262	259	243	272	244	228	230	232	233	238	250	240
1942	235	231	263	329	308	302	258	267	268	264	269	265
1943	252	280	304	332	412	384	346	330	311	286	292	258
1944	226	238	249	266	294	272	278	272	266	256	241	231
1945	228	220	281	333	345	342	318	307	295	326	330	304
1946	256	286	318	311	272	266	252	256	255	260	278	258
1947	260	290	279	366	432	452	372	350	328	289	264	246
1948	236	248	287	328	324	307	286	276	264	250	242	232
1949	246	264	286	334	300	251	246	237	238	239	231	234
1950	244	265	275	340	334	304	286	277	283	274	285	294
1951	265	298	331	437	380	324	322	297	291	286	304	293
1952	264	311	320	391	384	355	316	308	294	289	253	271
1953	252	282	304	341	312	297	284	283	273	260	240	238
1954	224	250	297	354	346	323	294	271	277	307	325	316
1955	274	301	320	424	342	299	274	271	268	270	310	273
1956	234	242	260	318	338	332	307	294	304	294	258	240
1957	236	256	272	266	256	250	307	282	279	264	264	262
1958	247	243	251	272	238	248	253	247	255	284	283	246
1959	233	234	258	331	312	287	266	244	247	250	265	284
1960	274	296	289	385	406	330	335	298	274	257	248	237
1961	228	227	223	265	299	299	302	288	281	261	248	242
1962	238	238	235	274	262	242	236	242	240	241	242	238
1963	224	220	221	269	238	233	227	231	236	223	232	234
1964	232	226	239	245	229	228	222	220	219	220	220	225
1965	226	230	224	232	242	217	218	229	242	268	260	270
1966	268	264	302	303	268	258	241	245	243	236	241	274
1967	245	262	234	306	291	279	281	277	276	298	345	326

A.D. 50

TABLE D-17 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 6L, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	277	306	311	337	275	264	280	280	286	276	278	295
1969	259	296	286	349	349	332	324	318	296	278	288	281
1970	256	268	267	312	318	294	299	298	285	291	302	312
1971	266	297	308	383	377	306	284	278	287	284	277	279
1972	252	283	289	360	407	359	373	369	346	330	344	351
1973	292	336	392	424	409	384	361	345	329	324	314	327
1974	279	324	348	418	468	416	366	338	319	306	305	326
1975	276	313	333	395	378	346	319	305	311	325	334	326
1976	286	325	370	473	432	377	364	353	343	339	309	290

Annex E

REGULATION PLAN 15S

Annex E

PLAN 15S

Table		Page
E-1	Lake Superior Monthly Mean Elevation	A.E.1
E-2	Lakes Michigan-Huron Monthly Mean Elevation	A.E.4
E-3	Lake St. Clair Monthly Mean Elevation	A.E.7
E-4	Lake Erie Monthly Mean Elevation	A.E.10
E-5	Lake Ontario Monthly Mean Elevation (With Deviation) Category 1	A.E.13
A-6	Lake Ontario Monthly Mean Elevation (With Deviation) Category 2	A.E.16
E-7	Lake Ontario Monthly Mean Elevation (With Deviation) Category 3	A.E.19
E-8	Lake Superior Monthly Mean Outflow	A.E.22
E-9	Lakes Michigan-Huron Monthly Mean Outflow	A.E.25
E-10	Lake St. Clair Monthly Mean Outflow	A.E.28
E-11	Lake Erie Monthly Mean Outflow	A.E.31
E-12	Lake Ontario Monthly Mean Outflow (With Deviation) Category 1	A.E.34
E-13	Lake Ontario Monthly Mean Outflow (With Deviation) Category 2	A.E.37
E-14	Lake Ontario Monthly Mean Outflow (With Deviation) Category 3	A.E.40
E-15	Lake St. Louis Monthly Mean Outflow (With Deviation) Category 1	A.E.43
E-16	Lake St. Louis Monthly Mean Outflow (With Deviation) Category 2	A.E.46
F-17	Lake St. Louis Monthly Mean Outflow (With Deviation) Category 3	A.E.49

TABLE E-1

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 1SS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	601.36	601.16	600.98	600.92	601.02	601.00	601.10	601.40	601.78	601.93	601.69	601.32
1901	600.95	600.66	600.50	600.53	600.64	600.86	601.16	601.26	601.11	601.02	600.89	600.58
1902	600.29	600.07	599.95	600.01	600.24	600.52	600.70	600.76	600.80	600.80	600.76	600.61
1903	600.36	600.05	599.92	600.08	600.52	600.83	600.95	601.07	601.11	601.09	600.92	600.59
1904	600.26	600.10	600.01	599.97	600.24	600.63	600.79	600.95	601.16	601.29	601.13	600.77
1905	600.44	600.22	600.23	600.35	600.58	600.89	601.15	601.31	601.42	601.33	601.13	600.91
1906	600.62	600.41	600.21	600.21	600.47	600.79	600.99	601.02	601.03	600.97	600.85	600.67
1907	600.46	600.32	600.26	600.26	600.49	600.85	601.03	601.24	601.45	601.36	601.04	600.63
1908	600.27	600.06	599.92	599.92	600.32	600.82	601.09	601.14	601.08	600.93	600.65	600.38
1909	600.17	600.01	599.91	599.92	600.25	600.51	600.72	600.95	600.94	600.83	600.76	600.67
1910	600.45	600.18	599.98	599.99	600.12	600.19	600.24	600.35	600.41	600.31	600.16	599.90
1911	599.62	599.43	599.25	599.19	599.47	599.88	600.27	600.57	600.67	600.58	600.38	600.22
1912	600.00	599.81	599.71	599.86	600.17	600.43	600.61	600.75	600.84	600.83	600.67	600.42
1913	600.17	599.90	599.92	600.18	600.51	600.76	600.98	601.17	601.26	601.25	601.11	600.86
1914	600.54	600.29	600.08	600.11	600.41	600.67	600.84	600.93	600.97	600.87	600.70	600.39
1915	600.12	600.00	599.76	599.71	599.93	600.32	600.64	600.69	600.84	600.98	600.95	600.84
1916	600.66	600.46	600.28	600.50	601.04	601.44	601.60	601.58	601.62	601.57	601.28	601.01
1917	600.74	600.47	600.41	600.43	600.55	600.81	600.96	601.09	601.19	601.12	600.95	600.69
1918	600.44	600.28	600.11	600.08	600.38	600.76	600.96	601.08	601.10	601.11	601.13	601.03
1919	600.82	600.61	600.43	600.45	600.66	600.79	600.84	600.82	600.80	600.72	600.67	600.55
1920	600.32	600.19	600.27	600.50	600.70	600.95	601.17	601.18	601.02	600.89	600.75	600.56
1921	600.32	600.03	599.90	600.08	600.43	600.59	600.67	600.72	600.67	600.52	600.26	599.92
1922	599.60	599.38	599.30	599.48	599.84	600.16	600.40	600.54	600.54	600.40	600.15	599.90
1923	599.67	599.43	599.28	599.33	599.47	599.61	599.81	599.96	600.00	600.01	599.92	599.73
1924	599.49	599.25	599.06	599.09	599.25	599.35	599.52	599.77	599.95	599.96	599.79	599.47
1925	599.19	599.01	598.92	599.00	599.16	599.37	599.60	599.71	599.78	599.70	599.45	599.18
1926	598.95	598.75	598.65	598.66	598.80	599.12	599.48	599.75	600.00	600.17	600.16	600.07
1927	599.90	599.75	599.79	600.01	600.[illegible]	600.80	601.01	601.05	600.92	600.78	600.56	600.33
1928	600.14	599.96	599.86	600.01	600.[illegible]	600.71	601.02	601.22	601.34	601.43	601.31	600.99
1929	600.73	600.59	600.56	600.66	600.78	600.86	601.04	601.11	601.11	601.15	601.05	600.84
1930	600.60	600.43	600.29	600.25	600.46	600.82	601.12	601.14	601.04	600.94	600.77	600.52
1931	600.24	599.95	599.68	599.60	599.[illegible]	599.95	600.14	600.17	600.19	600.28	600.31	600.22
1932	600.01	599.84	599.68	599.66	599.[illegible]	600.13	600.29	600.50	600.40	600.15	600.00	599.81
1933	599.58	599.41	599.26	599.31	599.72	600.05	600.18	600.21	600.22	600.22	600.09	599.87

D)

GLD 1955)

AUG	SEP	OCT	NOV	DEC
600.12	600.25	600.33	600.26	600.12
600.52	600.41	600.34	600.22	599.98
600.37	600.33	600.15	599.94	599.77
600.58	600.51	600.35	600.22	600.01
600.86	600.84	600.71	600.56	600.37
601.18	601.10	600.84	600.52	600.17
600.43	600.32	600.19	600.08	599.98
600.36	600.56	600.73	600.58	600.32
600.71	600.72	600.72	600.68	600.46
601.30	601.21	601.02	600.85	600.55
601.26	601.29	601.06	600.80	600.55
601.03	601.05	600.90	600.75	600.58
600.83	600.87	600.92	600.78	600.52
601.10	601.10	600.97	600.75	600.48
600.65	600.62	600.40	600.30	600.19
600.61	600.47	600.41	600.27	600.00
601.22	601.18	601.10	601.01	600.78
601.43	601.53	601.52	601.34	601.12
601.59	601.48	601.11	600.79	600.62
601.65	601.54	601.22	600.90	600.67
601.22	601.11	601.00	600.87	600.65
600.94	600.90	600.81	600.74	600.51
600.65	600.63	600.52	600.36	600.18
600.47	600.43	600.33	600.24	600.11
600.20	600.28	600.20	600.07	599.88
600.32	600.60	600.61	600.35	600.03
600.71	600.72	600.62	600.55	600.36
600.36	600.37	600.42	600.34	600.16
600.30	600.38	600.28	600.02	599.76
600.17	600.15	600.02	599.87	599.62
600.15	600.24	600.14	599.92	599.71
600.20	600.33	600.36	600.31	600.21
600.52	600.48	600.33	600.19	599.97
600.60	600.52	600.42	600.35	600.12

TABLE E-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 155

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	599.87	599.64	599.55	599.82	600.16	600.52	601.00	601.29	601.45	601.51	601.27	600.97
1969	600.88	600.76	600.57	600.65	600.92	601.24	601.09	601.17	601.10	600.91	600.75	600.52
1970	600.29	600.13	599.98	600.08	600.52	600.87	601.04	601.09	601.03	601.08	601.11	601.00
1971	600.73	600.57	600.56	600.67	601.02	601.31	601.38	601.34	601.26	601.26	601.21	600.97
1972	600.76	600.58	600.49	600.60	600.87	601.07	601.23	601.48	601.60	601.42	601.18	600.99
1973	600.74	600.52	600.53	600.70	600.95	601.20	601.35	601.47	601.46	601.36	601.22	601.01
1974	600.80	600.62	600.46	600.57	600.87	601.14	601.37	601.51	601.48	601.35	601.29	601.16
1975	600.99	600.88	600.74	600.71	600.89	601.13	601.25	601.17	601.09	601.01	601.00	600.96
1976	600.71	600.53	600.51	600.74	600.91	600.99	601.07	600.99	600.76	600.49	600.20	599.88

A.E.3

TABLE E-2

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	577.44	577.46	577.56	577.70	577.95	578.13	578.39	578.63	578.68	578.66	578.61	578.39
1901	578.11	578.00	578.17	578.54	578.84	579.01	579.15	579.22	579.00	578.72	578.44	578.18
1902	577.99	577.85	577.89	578.06	578.29	578.59	578.91	578.95	578.73	578.45	578.23	578.03
1903	577.84	577.89	578.12	578.38	578.62	578.81	578.90	578.94	578.97	578.90	578.62	578.33
1904	578.15	578.11	578.35	578.78	579.23	579.54	579.60	579.51	579.36	579.19	578.91	578.57
1905	578.32	578.25	578.40	578.61	578.89	579.28	579.51	579.53	579.42	579.18	578.96	578.77
1906	578.70	578.79	578.88	579.05	579.26	579.42	579.48	579.32	579.08	578.84	578.67	578.54
1907	578.50	578.54	578.60	578.76	579.00	579.26	579.39	579.35	579.25	579.08	578.84	578.64
1908	578.46	578.44	578.60	578.87	579.30	579.62	579.74	579.62	579.25	578.85	578.41	578.02
1909	577.80	577.77	577.84	578.12	578.61	578.93	579.01	578.91	578.72	578.39	578.11	578.05
1910	578.03	578.00	578.02	578.26	578.52	578.61	578.56	578.43	578.27	578.06	577.81	577.49
1911	577.31	577.31	577.30	577.44	577.75	577.98	577.98	577.84	577.75	577.71	577.65	577.58
1912	577.52	577.50	577.49	577.67	578.26	578.70	578.79	578.86	578.88	578.75	578.60	578.45
1913	578.27	578.15	578.27	578.70	579.17	579.41	579.46	579.39	579.16	578.95	578.87	578.67
1914	578.45	578.38	578.39	578.51	578.72	578.98	579.11	579.04	578.86	578.61	578.28	577.92
1915	577.76	577.81	577.80	577.78	577.89	578.06	578.21	578.25	578.26	578.11	577.94	577.84
1916	577.79	577.86	578.00	578.44	579.02	579.52	579.76	579.65	579.43	579.29	579.15	579.06
1917	578.98	578.86	578.86	579.11	579.40	579.79	580.17	580.15	579.86	579.53	579.22	578.96
1918	578.85	578.94	579.18	579.46	579.82	580.03	579.99	579.85	579.56	579.29	579.16	579.12
1919	579.02	578.84	578.91	579.24	579.61	579.77	579.71	579.51	579.21	579.00	578.81	578.61
1920	578.43	578.33	578.51	578.88	579.09	579.23	579.37	579.36	579.25	579.02	578.68	578.43
1921	578.30	578.19	578.28	578.68	578.97	579.01	578.94	578.80	578.66	578.42	578.12	577.97
1922	577.85	577.81	577.98	578.42	578.89	579.10	579.23	579.13	578.87	578.51	578.14	577.84
1923	577.56	577.41	577.43	577.70	578.08	578.33	578.36	578.24	578.10	577.90	577.58	577.31
1924	577.10	577.02	577.14	577.36	577.66	577.90	578.02	578.11	578.05	577.71	577.33	576.99
1925	576.72	576.63	576.71	576.83	576.82	576.86	576.94	576.79	576.52	576.24	575.99	575.81
1926	575.69	575.67	575.74	576.00	576.34	576.64	576.82	576.81	576.75	576.67	576.71	576.74
1927	576.68	576.71	576.88	577.14	577.51	577.87	578.03	577.98	577.83	577.72	577.64	577.58
1928	577.48	577.47	577.61	578.00	578.45	578.75	578.99	579.09	579.07	579.12	579.26	579.24
1929	579.20	579.16	579.29	579.83	580.47	580.84	580.88	580.71	580.36	579.97	579.61	579.27
1930	579.07	579.11	579.19	579.26	579.44	579.67	579.78	579.63	579.26	578.84	578.45	578.10
1931	577.82	577.62	577.60	577.66	577.74	577.86	577.83	577.58	577.44	577.31	577.19	577.06
1932	577.01	577.09	577.04	577.10	577.32	577.49	577.51	577.46	577.25	577.01	576.78	576.63
1933	576.58	576.54	576.53	576.79	577.33	577.64	577.66	577.44	577.13	576.86	576.60	576.42

TABLE E-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	576.39	576.30	576.25	576.47	576.71	576.85	576.88	576.70	576.61	576.52	576.45	576.48
1935	576.41	576.41	576.57	576.76	576.90	577.10	577.27	577.21	577.05	576.80	576.66	576.54
1936	576.43	576.46	576.56	576.74	577.02	577.23	577.21	577.13	577.09	576.98	576.67	576.41
1937	576.33	576.35	576.32	576.47	576.85	577.11	577.22	577.19	577.09	576.92	576.77	576.58
1938	576.50	576.69	577.08	577.48	577.79	578.07	578.22	578.22	578.14	577.89	577.59	577.37
1939	577.21	577.20	577.30	577.54	577.88	578.20	578.36	578.36	578.24	577.97	577.69	577.40
1940	577.16	577.00	576.89	576.93	577.21	577.57	577.76	577.80	577.75	577.51	577.28	577.18
1941	577.13	577.07	576.97	577.08	577.33	577.42	577.43	577.30	577.20	577.34	577.49	577.47
1942	577.36	577.33	577.51	577.79	578.11	578.45	578.56	578.41	578.21	578.05	577.90	577.80
1943	577.74	577.80	578.01	578.31	578.72	579.27	579.63	579.67	579.48	579.16	578.89	578.80
1944	578.35	578.26	578.27	578.37	578.54	578.78	578.91	578.78	578.66	578.50	578.25	577.99
1945	577.76	577.66	577.74	577.99	578.34	578.78	579.01	578.95	578.85	578.73	578.56	578.38
1946	578.30	578.33	578.51	578.67	578.78	578.96	578.97	578.76	578.48	578.21	577.93	577.69
1947	577.56	577.49	577.46	577.82	578.48	578.95	579.18	579.18	579.03	578.84	578.58	578.20
1948	577.86	577.74	577.92	578.28	578.58	578.75	578.75	578.58	578.23	577.75	577.47	577.34
1949	577.20	577.18	577.18	577.31	577.50	577.71	577.86	577.73	577.42	577.10	576.83	576.62
1950	576.61	576.72	576.88	577.27	577.65	577.93	578.17	578.24	578.17	578.02	577.84	577.71
1951	577.69	577.79	578.00	578.53	579.04	579.23	579.45	579.59	579.51	579.48	579.54	579.50
1952	579.50	579.51	579.54	579.86	580.22	580.39	580.57	580.66	580.45	579.91	579.46	579.25
1953	579.05	578.91	578.95	579.15	579.38	579.64	579.80	579.78	579.57	579.25	578.92	578.57
1954	578.29	578.21	578.29	578.56	578.92	579.28	579.52	579.46	579.33	579.39	579.40	579.16
1955	578.93	578.76	578.70	578.89	579.13	579.21	579.14	578.92	578.52	578.21	578.03	577.77
1956	577.58	577.53	577.58	577.79	578.16	578.44	578.56	578.62	578.43	578.07	577.74	577.49
1957	577.30	577.18	577.15	577.29	577.59	577.89	578.10	578.05	577.82	577.58	577.39	577.30
1958	577.25	577.18	577.10	577.13	577.15	577.16	577.23	577.17	577.01	576.81	576.51	576.21
1959	576.05	576.06	576.18	576.59	577.07	577.24	577.25	577.30	577.30	577.24	577.26	577.27
1960	577.27	577.30	577.30	577.60	578.31	578.85	579.06	579.08	578.88	578.50	578.21	577.93
1961	577.60	577.43	577.46	577.62	577.78	577.93	578.04	577.99	577.93	577.81	577.58	577.33
1962	577.18	577.18	577.26	577.45	577.69	577.85	577.84	577.73	577.53	577.26	576.92	576.55
1963	576.28	576.14	576.23	576.45	576.70	576.86	576.90	576.90	576.75	576.49	576.19	575.86
1964	575.63	575.50	575.42	575.58	575.88	576.06	576.15	576.16	576.08	575.90	575.70	575.56
1965	575.47	575.50	575.61	575.97	576.44	576.67	576.69	576.66	576.77	576.85	576.81	576.85
1966	576.82	576.78	576.96	577.24	577.41	577.51	577.50	577.36	577.10	576.78	576.70	576.81
1967	576.84	576.81	576.85	577.25	577.69	578.02	578.21	578.10	577.89	577.67	577.55	577.54

TABLE E-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	577.51	577.45	577.46	577.63	577.88	578.15	578.34	578.43	578.49	578.38	578.19	578.10
1969	578.07	578.04	578.01	578.23	578.67	579.11	579.42	579.41	579.09	578.81	578.64	578.41
1970	578.24	578.14	578.06	578.22	578.56	578.87	579.11	579.11	579.04	578.98	578.79	578.70
1971	578.60	578.58	578.72	579.02	579.33	579.51	579.63	579.61	579.45	579.24	579.00	578.92
1972	578.82	578.65	578.66	578.95	579.33	579.55	579.69	579.89	580.00	579.88	579.71	579.60
1973	579.58	579.53	579.69	580.07	580.50	580.90	580.99	580.96	580.74	580.41	580.11	579.83
1974	579.74	579.72	579.72	580.00	580.40	580.72	580.88	580.81	580.57	580.25	579.95	579.70
1975	579.50	579.45	579.52	579.71	580.02	580.31	580.41	580.34	580.13	579.73	579.41	579.28
1976	579.13	579.12	579.49	579.95	580.27	580.47	580.48	580.25	579.80	579.30	578.86	578.45

TABLE E-3

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 1SS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	572.34	572.40	572.81	573.07	573.27	573.39	573.49	573.61	573.47	573.33	573.22	573.08
1901	572.55	571.85	572.12	571.58	572.72	573.44	573.71	573.72	573.59	573.30	573.13	573.21
1902	572.19	572.00	572.79	573.16	573.47	573.79	574.38	574.33	573.99	573.87	573.53	573.49
1903	573.51	573.20	573.57	574.10	574.22	574.28	574.33	574.15	574.07	573.82	573.53	573.67
1904	572.59	572.77	573.61	574.33	574.58	574.75	574.77	574.59	574.36	574.07	573.78	573.63
1905	572.57	572.30	572.66	573.33	573.88	574.38	574.57	574.51	574.29	574.06	573.79	573.68
1906	573.67	572.93	572.96	573.61	574.05	574.30	574.38	574.27	574.03	573.86	573.78	573.64
1907	573.81	573.44	573.42	574.05	574.30	574.52	574.63	574.50	574.29	574.17	573.90	573.77
1908	573.37	572.94	573.84	574.47	574.81	574.93	574.85	574.72	574.25	573.94	573.41	573.12
1909	573.03	572.36	572.58	573.57	574.22	574.47	574.40	574.21	573.90	573.52	573.37	573.95
1910	572.96	572.46	573.26	573.60	573.87	573.90	573.79	573.69	573.50	573.36	573.09	572.81
1911	571.85	571.77	572.41	573.00	573.20	573.33	573.23	573.10	573.01	572.99	572.87	572.97
1912	573.12	573.09	573.29	573.63	573.82	574.00	574.01	574.00	574.02	573.83	573.67	573.39
1913	573.65	573.12	573.43	574.81	574.94	574.85	574.73	574.52	574.17	573.92	573.84	573.64
1914	573.02	572.89	572.67	573.45	574.14	574.32	574.30	574.22	574.04	573.76	573.41	573.55
1915	572.28	572.74	572.61	572.99	573.27	573.39	573.59	573.78	573.72	573.51	573.21	573.11
1916	573.61	573.27	572.86	573.78	574.43	574.74	574.84	574.66	574.30	574.04	573.84	574.09
1917	574.03	573.63	573.57	574.25	574.65	575.02	575.35	575.25	574.86	574.62	574.50	574.11
1918	572.78	573.06	573.21	573.38	574.22	574.47	574.54	574.46	574.32	574.08	573.99	573.90
1919	574.19	573.57	573.89	574.41	574.94	575.05	574.82	574.66	574.38	574.15	573.96	573.52
1920	572.10	572.14	572.71	573.54	574.00	574.26	574.42	574.39	574.17	573.93	573.69	573.49
1921	573.51	572.36	573.46	574.06	574.36	574.34	574.25	574.01	573.79	573.59	573.36	573.40
1922	573.04	572.32	573.01	573.89	574.18	574.44	574.42	574.26	574.01	573.62	573.22	572.99
1923	572.58	572.25	572.48	572.99	573.39	573.68	573.66	573.45	573.27	573.04	572.79	572.67
1924	572.74	571.93	572.27	572.90	573.38	573.60	573.70	573.58	573.40	573.17	572.73	572.26
1925	571.81	571.47	572.16	572.47	572.44	572.51	572.50	572.40	572.21	571.93	571.78	571.46
1926	570.59	570.36	570.81	571.71	572.13	572.23	572.32	572.39	572.45	572.64	572.67	572.66
1927	571.54	571.16	571.85	572.61	572.94	573.23	573.37	573.24	573.01	572.82	572.77	573.03
1928	572.88	572.32	572.11	572.97	573.45	573.80	574.10	574.13	573.91	573.83	573.83	573.88
1929	574.09	574.41	574.30	575.17	575.75	575.84	575.84	575.52	575.13	574.71	574.52	574.22
1930	574.38	574.14	574.66	574.93	574.97	574.94	574.93	574.64	574.30	574.01	573.54	573.31
1931	572.77	571.65	571.58	572.82	573.06	573.23	573.26	573.05	572.87	572.71	572.52	572.51
1932	572.79	573.11	572.40	572.91	573.27	573.27	573.22	573.06	572.79	572.43	572.30	572.81
1933	572.60	572.09	572.42	573.04	573.34	573.50	573.30	573.01	572.63	572.33	572.01	572.16

A.E.7

TABLE F-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 1SS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	571.15	571.12	571.12	572.05	572.15	572.20	572.22	572.06	571.96	571.76	571.58	571.75
1935	571.42	571.27	571.60	571.96	572.30	572.37	572.54	572.53	572.25	571.97	571.82	571.58
1936	570.84	571.01	571.58	572.14	572.40	572.52	572.45	572.30	572.27	572.10	571.91	571.79
1937	572.11	571.96	572.20	572.71	573.07	573.17	573.35	573.20	572.81	572.49	572.23	572.46
1938	571.76	572.25	572.32	573.19	573.34	573.48	573.55	573.51	573.30	573.01	572.70	572.52
1939	572.33	571.59	571.91	572.94	573.23	573.40	573.46	573.38	573.20	572.87	572.64	572.40
1940	571.59	571.22	571.51	572.51	572.86	573.25	573.35	573.24	573.17	572.93	572.72	572.77
1941	572.34	571.66	571.90	572.38	572.72	572.82	572.80	572.63	572.46	572.38	572.40	572.27
1942	571.87	570.76	571.84	573.00	573.32	573.68	573.73	573.63	573.43	573.15	573.10	573.17
1943	572.67	572.36	573.04	573.55	574.41	574.85	575.05	574.88	574.55	574.20	573.92	573.55
1944	572.22	572.24	572.55	573.57	573.98	574.20	574.18	573.93	573.75	573.53	573.28	573.17
1945	572.55	572.32	573.17	573.66	574.11	574.44	574.57	574.35	574.14	574.23	573.87	573.98
1946	573.20	572.59	573.43	573.63	573.79	574.21	574.26	573.99	573.63	573.35	573.11	572.90
1947	572.41	572.31	572.74	573.95	574.47	574.97	574.91	574.76	574.48	574.07	573.72	573.46
1948	573.20	572.91	573.44	573.95	574.38	574.39	574.36	574.09	573.72	573.19	572.95	572.87
1949	573.07	573.16	572.81	573.31	573.41	573.45	573.44	573.20	572.88	572.62	572.28	572.30
1950	572.76	572.84	573.01	573.93	573.94	573.93	573.89	573.69	573.59	573.38	573.17	573.42
1951	573.06	573.20	573.83	574.33	574.61	574.72	574.74	574.64	574.39	574.19	574.22	574.63
1952	574.85	574.84	575.01	575.38	575.49	575.53	575.51	575.40	575.21	574.61	574.18	574.09
1953	574.09	574.01	574.29	574.46	574.67	574.95	574.93	574.77	574.45	574.07	573.78	573.50
1954	572.71	572.69	573.70	574.33	574.58	574.67	574.64	574.45	574.30	574.47	574.49	574.30
1955	574.28	573.84	574.40	574.57	574.64	574.59	574.47	574.22	573.94	573.68	573.40	573.33
1956	572.13	571.61	572.78	573.54	574.39	574.39	574.36	574.39	574.15	573.66	573.22	573.02
1957	572.25	572.33	572.88	573.39	573.69	573.77	574.08	573.80	573.53	573.15	572.89	573.04
1958	572.11	571.65	572.37	572.33	572.77	572.86	573.04	572.98	572.79	572.50	572.11	572.10
1959	571.14	571.39	572.38	572.89	573.17	573.16	573.01	572.90	572.71	572.68	572.64	572.81
1960	572.71	572.29	572.62	573.37	573.71	574.15	574.19	574.17	573.92	573.47	573.12	573.08
1961	572.50	572.49	572.91	573.28	573.71	573.74	573.72	573.67	573.50	573.16	572.86	572.70
1962	572.41	571.65	572.71	572.99	573.10	573.25	573.16	573.05	572.79	572.60	572.41	572.33
1963	571.73	571.36	571.93	572.38	572.53	572.59	572.48	572.39	572.17	571.87	571.59	571.51
1964	570.76	570.62	571.20	571.73	572.00	572.04	572.01	571.92	571.74	571.38	571.16	571.15
1965	570.73	570.95	571.71	572.17	572.35	572.40	572.36	572.24	572.20	572.13	572.05	572.12
1966	572.05	571.86	572.30	572.68	572.89	573.01	572.95	572.82	572.55	572.11	572.14	572.60
1967	572.73	572.29	572.74	573.23	573.44	573.61	573.68	573.49	573.18	573.05	572.94	573.18

A.E.R

TABLE E-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	572.97	573.21	573.24	573.38	573.49	573.78	573.88	573.83	573.67	573.43	573.25	573.38
1969	573.42	573.46	573.40	573.89	574.33	574.67	574.90	574.78	574.31	573.94	573.74	573.52
1970	572.45	572.58	573.31	573.72	573.98	574.20	574.35	574.26	574.09	574.03	573.88	573.86
1971	573.77	573.60	574.02	574.23	574.31	574.51	574.47	574.40	574.35	574.30	573.99	573.93
1972	574.10	573.88	574.03	574.34	574.72	574.84	574.99	574.99	574.93	574.84	574.89	574.98
1973	575.05	574.87	575.31	575.61	575.78	576.13	576.11	575.93	575.61	575.26	575.03	574.98
1974	575.27	575.21	575.45	575.68	575.86	575.94	575.91	575.70	575.35	575.03	574.84	574.80
1975	574.92	574.91	575.02	575.25	575.29	575.51	575.45	575.38	575.37	575.00	574.68	574.72
1976	574.63	574.56	575.48	575.60	575.74	575.70	575.76	575.48	575.01	574.61	574.17	573.97

TABLE E-4

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 1958

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	569.53	569.50	569.80	570.14	570.33	570.37	570.37	570.39	570.15	569.93	569.76	569.78
1901	569.64	569.24	569.17	569.55	569.57	570.00	570.21	570.14	570.09	569.80	569.70	569.73
1902	569.73	569.34	569.61	570.18	570.50	570.76	571.37	571.41	571.01	571.01	570.65	570.39
1903	570.30	570.29	570.70	571.35	571.34	571.32	571.30	571.10	570.96	570.63	570.21	569.95
1904	569.77	569.82	570.32	571.35	571.58	571.79	571.74	571.45	571.21	570.85	570.50	570.21
1905	569.90	569.55	569.46	570.11	570.69	571.25	571.35	571.24	571.02	570.74	570.43	570.40
1906	570.43	570.38	570.11	570.48	570.72	570.93	571.05	571.05	570.82	570.69	570.64	570.95
1907	571.28	570.94	570.75	571.10	571.24	571.62	571.65	571.40	571.13	571.03	570.78	570.64
1908	570.87	570.60	571.08	571.69	571.91	571.91	571.72	571.55	571.11	570.71	570.20	569.98
1909	569.99	570.06	570.35	570.63	571.40	571.72	571.55	571.33	570.93	570.40	570.25	570.08
1910	569.81	569.60	569.97	570.34	570.82	570.91	570.82	570.74	570.53	570.40	570.06	569.94
1911	569.69	569.66	569.63	570.09	570.35	570.43	570.29	570.14	570.04	570.02	569.78	570.07
1912	569.96	569.60	569.60	570.53	570.86	571.00	570.93	570.91	570.91	570.64	570.44	570.10
1913	570.69	570.89	570.79	572.25	572.18	572.04	571.82	571.51	571.04	570.70	570.57	570.55
1914	570.40	570.09	569.84	570.48	571.22	571.43	571.31	571.13	570.97	570.71	570.23	570.06
1915	569.88	570.01	570.09	570.09	570.27	570.45	570.65	570.91	570.86	570.67	570.25	570.15
1916	570.56	570.72	570.50	570.98	571.40	571.85	571.85	571.49	571.04	570.65	570.42	570.34
1917	570.38	570.05	570.17	571.10	571.46	572.01	572.38	572.13	571.83	571.48	571.50	571.12
1918	570.45	570.14	570.61	570.48	570.42	570.83	570.95	570.95	570.86	570.72	570.58	570.63
1919	570.57	570.54	570.74	571.30	571.89	572.05	571.80	571.55	571.24	570.97	570.78	570.48
1920	569.99	569.45	569.51	570.34	570.97	571.14	571.32	571.26	570.98	570.64	570.51	570.55
1921	570.55	570.39	570.53	571.23	571.55	571.48	571.35	571.04	570.78	570.45	570.42	570.51
1922	570.26	569.96	570.11	571.07	571.45	571.56	571.45	571.20	570.99	570.52	570.06	569.79
1923	569.83	569.53	569.68	570.17	570.53	570.77	570.73	570.44	570.23	569.92	569.68	569.93
1924	570.12	570.06	569.89	570.43	570.79	570.96	571.07	570.79	570.52	570.32	569.80	569.60
1925	569.43	569.26	569.64	569.97	569.95	569.80	569.75	569.70	569.54	569.22	569.10	569.05
1926	568.68	568.44	568.48	569.33	569.52	569.62	569.62	569.72	569.81	570.11	570.02	569.93
1927	569.50	569.22	569.33	569.85	570.12	570.40	570.43	570.32	570.01	569.72	569.59	570.23
1928	570.33	570.14	569.81	570.10	570.29	570.70	571.07	571.02	570.62	570.38	570.36	570.48
1929	570.53	570.56	570.97	571.90	572.57	572.57	572.55	572.21	571.82	571.41	571.32	571.29
1930	571.86	571.59	571.83	572.05	572.03	571.96	571.82	571.48	571.17	570.85	570.51	570.39
1931	570.20	569.87	569.54	569.91	570.23	570.40	570.43	570.25	569.98	569.75	569.56	569.59
1932	570.15	570.54	570.41	570.46	570.69	570.70	570.58	570.34	570.02	569.59	569.51	569.42
1933	569.74	569.70	569.83	570.41	570.80	570.80	570.56	570.27	569.87	569.53	569.13	569.09

TABLE E-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 15S

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DE
1934	568.96	568.58	568.50	569.03	569.27	569.30	569.29	569.19	569.05	568.77	568.50	568.5
1935	568.58	568.42	568.70	569.00	569.30	569.53	569.62	569.62	569.22	568.88	568.81	568.7
1936	568.39	568.02	568.56	569.40	569.63	569.59	569.49	569.27	569.13	569.05	568.89	568.7
1937	569.34	569.95	569.83	570.15	570.71	570.84	571.09	570.86	570.29	569.77	569.46	569.2
1938	569.28	569.55	570.02	570.56	570.57	570.67	570.67	570.62	570.27	569.92	569.60	569.4
1939	569.30	569.18	569.44	569.95	570.33	570.44	570.43	570.33	569.99	569.64	569.41	569.2
1940	569.03	568.83	569.02	569.75	570.19	570.54	570.63	570.45	570.33	570.04	569.73	569.8
1941	570.17	569.76	569.55	569.76	569.87	569.97	569.92	569.74	569.48	569.25	569.13	569.0
1942	568.93	568.95	569.11	570.00	570.30	570.66	570.68	570.65	570.37	570.16	570.06	570.0
1943	570.29	569.98	570.10	570.54	571.39	572.03	572.09	571.87	571.44	571.02	570.77	570.4
1944	569.94	569.68	569.78	570.56	571.11	571.26	571.15	570.91	570.66	570.41	570.17	570.0
1945	569.86	569.58	570.31	570.96	571.25	571.65	571.72	571.46	571.11	571.27	570.94	570.7
1946	570.63	570.10	570.31	570.49	570.63	571.17	571.28	570.98	570.61	570.32	570.13	569.9
1947	569.96	569.96	569.87	571.01	571.78	572.39	572.17	571.90	571.57	571.04	570.67	570.4
1948	570.33	569.97	570.42	571.17	571.55	571.61	571.54	571.23	570.86	570.36	570.17	570.0
1949	570.25	570.57	570.75	570.85	570.91	570.87	570.74	570.45	570.08	569.83	569.47	569.4
1950	570.25	570.88	570.89	571.61	571.64	571.47	571.22	570.90	570.68	570.41	570.25	570.6
1951	570.61	570.58	571.13	571.56	571.80	571.81	571.70	571.43	571.06	570.78	570.75	570.9
1952	571.36	571.95	572.05	572.42	572.49	572.47	572.25	571.99	571.76	571.20	570.77	570.8
1953	570.92	570.99	571.27	571.51	571.71	571.94	571.76	571.58	571.20	570.82	570.51	570.3
1954	570.28	570.22	570.73	571.57	571.85	571.70	571.51	571.30	571.06	571.25	571.38	571.2
1955	571.43	571.12	571.60	571.83	571.84	571.67	571.45	571.31	570.93	570.73	570.48	570.4
1956	570.06	569.55	570.17	570.77	571.60	571.79	571.70	571.61	571.32	570.79	570.34	570.2
1957	570.12	570.06	570.24	570.90	571.23	571.28	571.49	571.11	570.75	570.34	570.05	570.1
1958	570.28	569.73	569.75	569.95	570.08	570.18	570.40	570.38	570.13	569.75	569.45	569.2
1959	569.09	569.45	569.84	570.40	570.73	570.67	570.42	570.16	569.83	569.75	569.62	569.7
1960	570.05	570.06	569.96	570.41	570.76	571.09	571.17	571.09	570.78	570.27	569.87	569.5
1961	569.38	569.27	569.89	570.42	571.15	571.15	571.04	570.97	570.74	570.24	569.86	569.7
1962	569.48	569.44	569.74	570.18	570.27	570.34	570.25	570.10	569.80	569.68	569.51	569.4
1963	569.12	568.79	569.09	569.79	569.94	569.91	569.70	569.58	569.29	568.94	568.70	568.5
1964	568.41	568.35	568.64	569.27	569.60	569.56	569.43	569.23	568.99	568.53	568.28	568.2
1965	568.47	568.64	569.19	569.55	569.80	569.79	569.64	569.48	569.34	569.12	568.99	569.0
1966	569.17	569.12	569.41	569.70	570.04	570.15	570.10	569.95	569.65	569.14	569.19	569.7
1967	569.79	569.86	569.93	570.49	570.81	570.79	570.80	570.57	570.20	570.01	569.94	570.1

A.E.11

TABLE E-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 15S

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	570.20	570.48	570.39	570.70	570.73	570.98	571.08	570.96	570.66	570.28	570.09	570.27
1969	570.33	570.65	570.48	571.05	571.58	571.91	572.13	571.92	571.38	570.90	570.59	570.61
1970	570.09	570.00	570.23	570.78	571.13	571.32	571.40	571.26	571.02	570.90	570.76	570.78
1971	570.62	570.51	570.98	571.14	571.22	571.40	571.28	571.14	571.15	571.24	570.85	570.78
1972	570.82	570.64	570.99	571.43	571.87	571.98	572.10	571.94	571.78	571.66	571.78	572.02
1973	572.08	572.01	572.28	572.81	572.86	573.18	573.11	572.84	572.39	572.03	571.74	571.76
1974	571.86	572.17	572.60	572.89	572.99	573.04	572.86	572.53	572.11	571.70	571.60	571.76
1975	571.86	571.95	572.31	572.34	572.41	572.55	572.41	572.25	572.34	572.01	571.72	571.71
1976	571.57	571.63	572.77	572.85	572.90	572.78	572.76	572.51	572.03	571.68	571.21	570.89

TABLE E-5

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 158, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.36	244.50	244.63	245.20	245.47	245.56	245.72	245.79	245.45	244.90	244.40	244.44
1901	244.16	243.99	243.80	245.02	245.54	245.65	245.46	245.18	244.83	244.21	243.68	243.69
1902	243.84	243.72	244.29	244.88	245.09	245.56	246.39	246.27	245.43	244.65	244.05	243.70
1903	243.62	243.88	244.69	245.69	245.64	245.42	245.59	245.44	244.95	244.36	243.77	243.40
1904	243.22	243.56	244.12	245.49	246.13	246.37	246.23	245.76	245.10	244.45	243.72	243.29
1905	243.37	243.21	243.37	244.45	245.05	245.57	245.83	245.64	245.03	244.32	243.75	243.65
1906	244.07	244.31	244.10	244.39	244.70	245.11	245.44	245.22	244.58	244.18	244.02	243.77
1907	244.34	244.50	244.22	244.66	245.06	245.42	245.59	245.45	244.90	244.51	244.16	243.88
1908	244.42	244.54	244.69	245.34	245.97	246.14	245.92	245.46	244.57	243.94	243.43	243.06
1909	242.92	243.15	243.59	244.35	245.57	245.78	245.57	245.21	244.58	243.94	243.56	243.49
1910	243.57	243.75	244.27	244.74	245.31	245.44	245.35	245.25	244.92	244.41	243.82	243.52
1911	243.34	243.41	243.57	244.27	245.12	245.60	245.76	245.50	245.20	244.94	244.56	244.42
1912	244.51	244.44	244.37	245.29	246.13	246.61	246.23	245.59	245.10	244.67	244.24	243.96
1913	244.56	245.11	244.99	246.04	246.23	246.17	245.79	245.31	244.68	244.15	243.87	243.66
1914	243.63	243.80	243.74	244.75	245.30	245.37	245.24	244.97	244.73	244.18	243.64	243.27
1915	243.19	243.56	243.92	244.15	244.67	245.02	245.19	245.59	245.36	244.75	243.97	243.57
1916	243.99	244.35	244.33	245.21	245.92	246.64	246.65	245.73	244.75	244.04	243.65	243.51
1917	243.61	243.72	244.10	245.20	245.38	245.74	246.07	245.69	244.95	244.35	244.10	243.78
1918	243.54	243.55	244.25	244.88	244.91	244.98	245.08	244.87	244.65	244.31	244.06	243.80
1919	244.07	244.17	244.26	244.79	245.63	246.16	245.80	245.17	244.54	244.03	243.72	243.46
1920	243.26	243.08	243.20	244.10	244.84	245.19	245.58	245.72	245.31	244.76	244.23	244.11
1921	244.35	244.38	244.55	244.95	245.17	245.28	245.23	244.90	244.58	244.27	244.05	243.88
1922	243.71	243.71	244.11	245.03	245.60	245.73	245.87	245.35	244.75	244.15	243.57	243.19
1923	243.18	243.09	243.36	244.23	245.03	245.83	245.96	245.71	245.29	244.82	244.49	244.47
1924	244.45	244.43	244.25	244.81	245.60	245.87	245.76	245.46	244.83	244.42	243.69	243.21
1925	242.89	242.88	243.74	244.35	244.55	244.68	244.64	244.47	244.16	243.79	243.74	243.72
1926	243.30	243.03	242.92	243.78	244.79	245.09	245.13	245.04	244.95	244.79	244.66	244.51
1927	244.33	244.21	244.35	244.63	244.71	245.20	245.45	245.41	245.00	244.62	244.26	244.72
1928	245.34	245.57	245.42	245.79	245.94	245.91	246.03	245.82	245.09	244.46	244.14	244.04
1929	244.30	244.69	244.84	245.93	246.77	246.82	246.55	245.97	245.22	244.57	244.09	243.77
1930	244.39	245.17	245.81	246.21	246.20	246.05	245.89	245.19	244.54	243.91	243.42	243.26
1931	243.13	243.00	243.06	243.66	244.37	245.03	245.11	244.88	244.51	244.11	243.82	243.67
1932	244.04	244.56	244.62	245.16	245.52	245.53	245.62	245.60	245.19	244.80	244.66	244.39
1933	244.42	244.35	244.46	245.41	245.98	246.03	245.92	245.62	245.25	244.68	244.15	243.95

A.E. 1.3

TABLE E-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 158, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	243.91	243.71	243.58	244.22	244.82	244.97	245.02	244.65	244.30	244.00	243.58	243.25
1935	243.07	242.87	242.87	243.29	243.85	244.33	244.74	244.58	244.16	243.69	243.40	243.10
1936	242.71	242.22	242.57	244.19	244.64	244.71	244.55	244.11	243.77	243.47	243.31	242.9
1937	243.20	243.76	243.90	244.33	245.31	245.82	245.89	245.54	244.93	244.42	244.30	244.05
1938	243.86	244.21	244.54	245.10	245.31	245.41	245.50	245.64	245.34	244.85	244.11	243.71
1939	243.62	243.71	244.14	244.91	245.37	245.30	245.39	245.34	244.97	244.58	244.10	243.70
1940	243.36	242.96	242.81	243.70	244.93	245.58	245.64	245.23	244.71	244.39	244.06	244.06
1941	244.38	244.29	244.05	244.57	245.08	245.28	245.28	245.08	244.73	244.36	244.22	244.11
1942	244.12	244.17	244.65	245.58	245.79	245.93	245.72	245.59	245.09	244.57	244.21	243.95
1943	244.32	244.56	244.76	245.30	246.17	246.98	246.71	246.12	245.27	244.46	244.17	243.68
1944	243.48	243.48	243.60	244.33	245.19	245.48	245.46	245.02	244.54	243.99	243.50	243.38
1945	243.35	243.33	244.03	245.15	245.78	246.15	246.02	245.47	244.84	244.86	244.42	244.17
1946	244.37	244.49	244.65	244.53	244.46	244.91	245.05	244.81	244.36	244.07	243.88	243.57
1947	243.74	244.09	244.00	244.99	245.87	246.92	246.95	246.58	245.77	244.73	244.06	243.66
1948	243.66	243.63	244.12	245.14	245.50	245.55	245.30	244.92	244.36	243.80	243.62	243.48
1949	243.63	244.00	244.31	244.73	244.97	245.08	245.11	244.78	244.41	244.06	243.59	243.39
1950	243.94	244.43	244.54	245.61	245.76	245.69	245.56	245.29	244.87	244.33	244.02	244.07
1951	244.40	244.78	245.32	246.29	246.70	246.43	246.19	245.52	244.87	244.22	243.85	243.84
1952	244.41	245.26	245.64	246.44	246.71	246.73	246.26	245.62	244.94	244.30	243.70	243.71
1953	243.95	244.17	244.23	244.87	245.42	245.75	245.51	245.17	244.64	244.01	243.58	243.60
1954	243.53	243.76	244.54	245.22	245.97	245.86	245.51	245.00	244.66	244.46	244.31	244.11
1955	244.68	244.80	245.26	246.10	246.21	245.87	245.43	245.03	244.47	244.28	244.18	243.61
1956	243.39	243.33	243.66	244.43	245.47	245.74	245.43	245.01	244.68	244.04	243.54	243.44
1957	243.45	243.64	243.93	244.38	244.96	245.53	245.90	245.43	244.82	244.11	243.72	243.60
1958	243.79	243.78	244.02	244.76	245.47	245.82	245.88	245.77	245.60	245.14	244.61	244.16
1959	243.89	244.01	244.34	245.34	245.75	245.68	245.53	245.17	244.70	244.36	244.17	244.40
1960	244.76	245.04	245.03	245.80	246.56	246.61	246.08	245.46	244.73	244.06	243.63	243.22
1961	242.93	242.70	243.46	244.39	245.38	245.72	245.65	245.24	244.80	244.16	243.55	243.24
1962	242.95	242.81	242.96	243.90	244.70	244.98	244.89	244.83	244.42	244.25	243.96	243.85
1963	243.40	242.95	242.83	243.90	244.81	245.18	245.04	244.83	244.31	243.66	243.15	242.88
1964	242.42	242.13	242.14	242.97	243.79	244.18	244.20	243.89	243.43	242.70	242.04	241.65
1965	241.59	241.72	242.22	242.91	243.81	244.21	244.40	244.21	244.03	243.86	243.80	244.04
1966	244.12	244.08	244.48	244.75	244.87	245.17	245.08	244.76	244.42	243.92	243.54	243.76
1967	243.83	243.97	243.97	244.81	245.69	246.17	246.36	246.09	245.49	245.06	244.89	244.60

TABLE E-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 1958, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.42	244.42	244.43	245.07	245.11	245.53	245.74	245.47	245.09	244.46	244.09	244.22
1969	244.38	244.60	244.44	245.07	245.69	246.04	245.86	245.41	244.67	244.06	243.83	243.79
1970	243.75	243.75	243.75	244.45	245.10	245.35	245.59	245.37	244.83	244.53	244.28	244.27
1971	244.37	244.41	244.81	245.41	245.93	245.74	245.51	245.14	244.90	244.45	243.95	243.85
1972	244.12	244.40	244.76	245.48	246.30	246.44	246.61	246.25	245.48	244.74	244.50	244.[illegible]
1973	245.55	246.16	246.54	247.47	247.56	247.35	246.68	245.78	244.92	244.34	243.96	244.01
1974	244.70	245.33	245.66	246.21	246.75	246.93	246.58	245.78	244.86	244.12	243.71	243.80
1975	244.01	244.51	245.07	245.62	245.85	245.81	245.41	244.99	244.67	244.53	244.14	244.00
1976	244.28	244.56	245.55	246.45	246.93	246.91	246.53	245.90	245.12	244.53	243.92	243.53

TABLE E-6

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 1958, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.37	244.49	244.62	245.19	245.45	245.54	245.70	245.77	245.43	244.88	244.38	244.44
1901	244.11	243.90	243.73	244.96	245.48	245.61	245.43	245.15	244.81	244.19	243.67	243.68
1902	243.84	243.76	244.39	244.95	245.13	245.59	246.38	246.23	245.40	244.63	244.04	243.70
1903	243.63	243.88	244.69	245.68	245.58	245.36	245.54	245.39	244.91	244.33	243.75	243.40
1904	243.29	243.66	244.20	245.56	246.15	246.39	246.17	245.65	245.03	244.40	243.70	243.29
1905	243.44	243.30	243.48	244.56	245.14	245.64	245.90	245.69	245.06	244.34	243.77	243.66
1906	244.04	244.21	244.01	244.32	244.66	245.08	245.42	245.22	244.58	244.18	244.02	243.77
1907	244.31	244.35	244.08	244.56	244.98	245.36	245.53	245.40	244.87	244.48	244.13	243.84
1908	244.27	244.28	244.50	245.17	245.77	245.94	245.73	245.31	244.46	243.85	243.39	243.04
1909	242.97	243.27	243.73	244.45	245.62	245.83	245.61	245.24	244.61	243.96	243.58	243.52
1910	243.66	243.86	244.37	244.82	245.37	245.50	245.41	245.30	244.95	244.44	243.85	243.55
1911	243.44	243.59	243.79	244.54	245.39	245.87	246.03	245.77	245.47	245.20	244.77	244.58
1912	244.57	244.42	244.35	245.27	246.06	246.47	245.98	245.38	244.94	244.55	244.16	243.87
1913	244.33	244.69	244.62	245.72	245.84	245.81	245.51	245.09	244.52	244.03	243.79	243.63
1914	243.62	243.80	243.74	244.75	245.30	245.37	245.24	244.97	244.73	244.18	243.64	243.28
1915	243.26	243.68	244.01	244.23	244.75	245.10	245.27	245.67	245.40	244.78	243.99	243.60
1916	244.01	244.31	244.29	245.16	245.87	246.57	246.44	245.49	244.56	243.90	243.58	243.48
1917	243.63	243.74	244.11	245.21	245.37	245.73	246.05	245.63	244.90	244.30	244.07	243.77
1918	243.54	243.55	244.25	244.88	244.91	244.98	245.08	244.87	244.65	244.31	244.06	243.77
1919	243.96	244.00	244.13	244.69	245.54	246.07	245.67	245.06	244.46	243.96	243.66	243.45
1920	243.32	243.21	243.41	244.34	245.07	245.42	245.81	245.92	245.46	244.87	244.31	244.15
1921	244.25	244.19	244.37	244.78	245.03	245.17	245.15	244.85	244.54	244.23	244.01	243.84
1922	243.69	243.74	244.14	245.06	245.63	245.74	245.88	245.36	244.76	244.16	243.58	243.20
1923	243.26	243.25	243.62	244.54	245.33	246.11	246.19	245.89	245.44	244.94	244.58	244.53
1924	244.46	244.38	244.21	244.77	245.57	245.84	245.73	245.44	244.82	244.42	243.69	243.22
1925	242.96	243.03	243.94	244.50	244.67	244.78	244.74	244.57	244.26	243.89	243.84	243.79
1926	243.39	243.20	243.17	244.09	245.08	245.37	245.41	245.32	245.23	245.02	244.83	244.61
1927	244.27	244.09	244.22	244.50	244.61	245.11	245.36	245.33	244.94	244.57	244.23	244.64
1928	244.99	245.06	244.89	245.26	245.42	245.48	245.71	245.58	244.90	244.32	244.02	243.91
1929	244.05	244.35	244.56	245.67	246.48	246.52	246.13	245.53	244.87	244.30	243.88	243.67
1930	244.32	244.93	245.54	245.88	245.80	245.71	245.62	244.99	244.38	243.79	243.36	243.23
1931	243.17	243.12	243.27	243.91	244.62	245.28	245.36	245.13	244.76	244.36	244.07	243.94
1932	244.37	244.87	244.93	245.46	245.76	245.72	245.79	245.74	245.30	244.89	244.74	244.46
1933	244.47	244.39	244.53	245.48	246.03	246.08	245.97	245.67	245.30	244.73	244.19	244.02

A.E. 1 (5)

TABLE E-6 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 1958, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	244.04	243.92	243.88	244.57	245.17	245.32	245.37	245.00	244.64	244.27	243.74	243.41
1935	243.31	243.20	243.29	243.76	244.32	244.80	245.21	245.05	244.63	244.15	243.82	243.52
1936	243.20	242.79	243.24	244.85	245.13	245.13	244.96	244.52	244.18	243.88	243.71	243.38
1937	243.70	244.23	244.27	244.63	245.54	245.99	246.02	245.64	245.02	244.50	244.38	244.12
1938	243.98	244.38	244.69	245.24	245.41	245.51	245.60	245.73	245.41	244.91	244.15	243.74
1939	243.71	243.87	244.29	245.02	245.45	245.36	245.45	245.40	245.03	244.64	244.16	243.79
1940	243.51	243.18	243.13	244.07	245.30	245.90	245.88	245.40	244.85	244.51	244.17	244.16
1941	244.41	244.26	244.03	244.56	245.07	245.27	245.27	245.07	244.72	244.35	244.21	244.12
1942	244.21	244.34	244.88	245.79	245.94	246.04	245.82	245.67	245.15	244.61	244.23	243.97
1943	244.30	244.44	244.64	245.19	246.06	246.81	246.38	245.75	244.96	244.22	243.98	243.58
1944	243.46	243.50	243.61	244.34	245.20	245.49	245.47	245.03	244.55	244.00	243.51	243.39
1945	243.43	243.49	244.24	245.33	245.91	246.21	246.04	245.49	244.86	244.87	244.43	244.14
1946	244.22	244.26	244.47	244.37	244.33	244.81	244.97	244.74	244.31	244.05	243.87	243.56
1947	243.75	244.09	244.00	244.99	245.87	246.92	246.92	246.43	245.60	244.59	243.96	243.62
1948	243.64	243.62	244.11	245.13	245.49	245.54	245.29	244.91	244.35	243.79	243.61	243.49
1949	243.70	244.05	244.35	244.77	245.01	245.11	245.14	244.81	244.44	244.09	243.62	243.44
1950	244.05	244.55	244.64	245.69	245.82	245.73	245.59	245.31	244.88	244.34	244.02	244.05
1951	244.26	244.54	245.11	246.10	246.50	246.16	245.96	245.34	244.74	244.11	243.77	243.80
1952	244.27	244.94	245.31	246.10	246.34	246.34	245.90	245.34	244.74	244.13	243.61	243.69
1953	243.91	244.07	244.16	244.81	245.37	245.71	245.48	245.14	244.61	243.98	243.56	243.59
1954	243.55	243.80	244.56	245.22	245.88	245.75	245.42	244.94	244.62	244.43	244.29	244.04
1955	244.38	244.40	244.91	245.79	245.87	245.56	245.19	244.85	244.33	244.17	244.10	243.58
1956	243.42	243.38	243.69	244.46	245.50	245.75	245.43	245.01	244.68	244.04	243.54	243.45
1957	243.53	243.75	244.01	244.45	245.02	245.60	245.97	245.48	244.86	244.15	243.75	243.64
1958	243.87	243.94	244.26	245.04	245.73	246.08	246.14	246.03	245.86	245.36	244.78	244.30
1959	244.09	244.28	244.58	245.55	245.91	245.80	245.62	245.25	244.78	244.44	244.25	244.44
1960	244.65	244.83	244.82	245.59	246.35	246.41	245.88	245.30	244.61	244.00	243.59	243.20
1961	242.97	242.82	243.67	244.61	245.41	245.68	245.59	245.07	244.58	243.97	243.52	243.32
1962	243.12	243.06	243.31	244.31	245.10	245.38	245.30	245.23	244.82	244.64	244.35	244.26
1963	243.84	243.47	243.41	244.48	245.39	245.75	245.62	245.49	245.01	244.44	244.03	243.80
1964	243.42	243.22	243.25	243.98	244.68	245.06	245.08	244.80	244.38	243.68	243.02	242.51
1965	242.22	242.12	242.43	242.97	243.77	244.05	244.23	244.04	243.82	243.59	243.58	243.83
1966	243.87	243.82	244.23	244.51	244.62	244.92	244.83	244.51	244.17	243.68	243.35	243.61
1967	243.75	243.96	244.05	244.94	245.79	246.34	246.50	246.19	245.56	245.12	244.93	244.61

TABLE E-6 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 158, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.50	244.57	244.43	244.97	244.99	245.34	245.53	245.26	244.90	244.30	243.95	244.06
1969	244.08	244.36	244.17	244.83	245.48	245.86	245.70	245.27	244.53	243.93	243.73	243.71
1970	243.66	243.72	243.72	244.39	245.03	245.29	245.53	245.30	244.76	244.46	244.21	244.14
1971	244.09	244.15	244.58	245.20	245.67	245.49	245.29	244.95	244.75	244.31	243.83	243.73
1972	243.93	244.05	244.29	245.07	245.91	246.01	246.23	245.85	245.12	244.46	244.29	244.54
1973	245.14	245.82	246.27	247.22	247.39	247.42	247.06	246.42	245.62	245.02	244.53	244.42
1974	244.89	245.44	245.81	246.42	246.87	247.01	246.79	246.23	245.44	244.67	244.16	244.15
1975	244.47	244.86	245.36	245.95	246.12	246.10	245.71	245.21	244.84	244.65	244.23	244.03
1976	244.27	244.58	245.61	246.47	247.01	247.19	247.14	246.73	245.96	245.34	244.61	243.87

TABLE E-7

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 1958, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.37	244.49	244.60	245.18	245.44	245.53	245.69	245.76	245.42	244.87	244.38	244.44
1901	244.11	243.90	243.73	244.96	245.48	245.61	245.43	245.15	244.81	244.19	243.67	243.69
1902	243.86	243.78	244.41	244.97	245.15	245.61	246.38	246.23	245.40	244.63	244.04	243.70
1903	243.63	243.88	244.68	245.56	245.47	245.29	245.48	245.35	244.89	244.32	243.74	243.40
1904	243.30	243.67	244.21	245.53	246.01	246.11	245.86	245.40	244.82	244.25	243.61	243.26
1905	243.44	243.31	243.49	244.57	245.14	245.64	245.90	245.69	245.06	244.34	243.77	243.66
1906	244.04	244.21	244.00	244.31	244.65	245.07	245.41	245.21	244.57	244.17	244.01	243.76
1907	244.31	244.32	244.06	244.54	244.97	245.35	245.52	245.39	244.86	244.47	244.13	243.84
1908	244.27	244.26	244.42	245.04	245.65	245.82	245.64	245.25	244.40	243.82	243.38	243.04
1909	242.98	243.28	243.74	244.46	245.63	245.79	245.57	245.21	244.58	243.94	243.56	243.50
1910	243.67	243.87	244.38	244.83	245.38	245.50	245.41	245.30	244.95	244.44	243.85	243.55
1911	243.47	243.64	243.84	244.59	245.44	245.92	246.08	245.82	245.52	245.25	244.82	244.62
1912	244.61	244.43	244.33	245.23	246.03	246.38	245.90	245.33	244.89	244.51	244.12	243.84
1913	244.32	244.66	244.54	245.54	245.65	245.65	245.38	244.98	244.43	243.96	243.73	243.62
1914	243.62	243.80	243.74	244.75	245.30	245.37	245.24	244.97	244.73	244.18	243.64	243.28
1915	243.29	243.73	244.05	244.26	244.78	245.13	245.30	245.70	245.42	244.79	244.00	243.60
1916	244.01	244.29	244.24	245.08	245.75	246.38	246.23	245.33	244.44	243.81	243.55	243.46
1917	243.62	243.73	244.10	245.20	245.36	245.72	246.04	245.63	244.90	244.30	244.07	243.77
1918	243.58	243.58	244.22	244.82	244.87	244.95	245.05	244.85	244.64	244.31	244.06	243.77
1919	243.96	243.98	244.05	244.60	245.48	245.97	245.58	244.99	244.40	243.91	243.64	243.44
1920	243.32	243.22	243.43	244.36	245.09	245.44	245.83	245.94	245.48	244.89	244.32	244.16
1921	244.26	244.17	244.29	244.64	244.90	245.07	245.07	244.78	244.48	244.18	243.96	243.82
1922	243.68	243.74	244.14	245.06	245.57	245.70	245.86	245.35	244.75	244.15	243.57	243.20
1923	243.27	243.27	243.64	244.56	245.35	246.13	246.20	245.90	245.45	244.95	244.59	244.54
1924	244.46	244.38	244.21	244.77	245.57	245.84	245.73	245.44	244.82	244.42	243.69	243.22
1925	242.98	243.06	243.97	244.52	244.69	244.80	244.76	244.59	244.28	243.91	243.86	243.80
1926	243.39	243.21	243.19	244.11	245.09	245.38	245.42	245.33	245.24	245.02	244.83	244.61
1927	244.27	244.06	244.18	244.41	244.53	245.03	245.28	245.26	244.89	244.53	244.20	244.61
1928	244.96	244.93	244.63	244.92	245.12	245.25	245.52	245.43	244.79	244.22	243.95	243.86
1929	244.01	244.28	244.46	245.51	246.24	246.12	245.76	245.23	244.65	244.13	243.78	243.65
1930	244.32	244.90	245.46	245.72	245.63	245.58	245.52	244.90	244.30	243.74	243.33	243.20
1931	243.16	243.13	243.29	243.95	244.66	245.32	245.40	245.17	244.80	244.40	244.11	243.98
1932	244.42	244.88	244.83	245.29	245.62	245.62	245.70	245.68	245.26	244.86	244.71	244.43
1933	244.45	244.38	244.52	245.47	246.03	246.08	245.97	245.67	245.30	244.73	244.19	244.04

A.E.1 9

TABLE E-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 1SS, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	244.08	243.97	243.94	244.63	245.23	245.38	245.43	245.06	244.70	244.35	243.86	243.56
1935	243.49	243.39	243.49	243.97	244.53	245.01	245.42	245.26	244.84	244.37	244.05	243.78
1936	243.49	243.10	243.55	245.16	245.38	245.34	245.17	244.73	244.39	244.09	243.92	243.60
1937	243.95	244.46	244.45	244.77	245.66	246.09	246.10	245.70	245.06	244.54	244.42	244.16
1938	244.03	244.43	244.73	245.23	245.38	245.48	245.57	245.70	245.38	244.89	244.14	243.74
1939	243.72	243.89	244.31	245.04	245.47	245.37	245.46	245.41	245.04	244.65	244.17	243.80
1940	243.53	243.22	243.17	244.12	245.35	245.93	245.91	245.43	244.88	244.53	244.18	244.17
1941	244.41	244.26	244.03	244.56	245.07	245.27	245.27	245.07	244.72	244.35	244.21	244.15
1942	244.26	244.40	244.92	245.71	245.86	245.99	245.78	245.63	245.13	244.60	244.23	243.97
1943	244.30	244.42	244.58	245.05	245.93	246.59	246.16	245.54	244.76	244.06	243.86	243.54
1944	243.46	243.51	243.62	244.35	245.21	245.50	245.48	245.04	244.56	244.01	243.52	243.40
1945	243.45	243.53	244.27	245.33	245.91	246.21	246.04	245.49	244.86	244.87	244.38	244.02
1946	244.14	244.17	244.34	244.23	244.21	244.72	244.91	244.70	244.27	244.02	243.84	243.55
1947	243.74	244.08	243.99	244.98	245.86	246.78	246.64	246.08	245.14	244.18	243.67	243.52
1948	243.61	243.60	244.10	245.13	245.49	245.54	245.29	244.91	244.35	243.79	243.61	243.50
1949	243.73	244.07	244.37	244.78	245.01	245.11	245.14	244.81	244.44	244.09	243.62	243.44
1950	244.07	244.57	244.66	245.66	245.79	245.71	245.57	245.29	244.87	244.33	244.02	244.05
1951	244.26	244.51	245.03	245.90	246.15	245.84	245.72	245.16	244.61	244.01	243.72	243.78
1952	244.25	244.90	245.23	245.92	246.02	245.98	245.61	245.12	244.56	244.00	243.56	243.68
1953	243.91	244.07	244.16	244.81	245.37	245.71	245.48	245.14	244.61	243.98	243.56	243.59
1954	243.56	243.83	244.58	245.24	245.87	245.74	245.41	244.93	244.61	244.42	244.28	244.04
1955	244.38	244.36	244.83	245.59	245.57	245.33	245.01	244.71	244.22	244.08	244.02	243.55
1956	243.42	243.38	243.69	244.46	245.50	245.75	245.43	245.01	244.68	244.04	243.54	243.45
1957	243.55	243.78	244.04	244.47	245.03	245.61	245.97	245.48	244.86	244.15	243.75	243.64
1958	243.89	243.97	244.30	245.08	245.77	246.12	246.18	246.07	245.90	245.39	244.81	244.32
1959	244.13	244.34	244.63	245.54	245.89	245.78	245.60	245.23	244.76	244.42	244.23	244.42
1960	244.63	244.77	244.67	245.39	246.08	246.07	245.62	245.09	244.45	243.88	243.52	243.15
1961	242.95	242.81	243.66	244.61	245.41	245.68	245.59	245.07	244.58	243.97	243.52	243.33
1962	243.15	243.09	243.34	244.35	245.14	245.42	245.34	245.27	244.86	244.68	244.38	244.28
1963	243.88	243.53	243.48	244.56	245.47	245.83	245.70	245.57	245.09	244.52	244.12	243.91
1964	243.55	243.37	243.40	244.13	244.83	245.21	245.23	244.95	244.53	243.84	243.19	242.70
1965	242.44	242.35	242.66	243.21	244.01	244.29	244.47	244.28	244.06	243.83	243.82	244.01
1966	244.01	243.92	244.28	244.49	244.61	244.91	244.82	244.50	244.16	243.67	243.34	243.61
1967	243.76	243.98	244.08	244.98	245.82	246.37	246.53	246.22	245.59	245.13	244.94	244.62

A.E. 20

TABLE E-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 1958, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.51	244.50	244.27	244.73	244.78	245.17	245.39	245.15	244.82	244.24	243.91	244.03
1969	244.05	244.31	244.09	244.75	245.41	245.80	245.66	245.24	244.51	243.91	243.72	243.71
1970	243.66	243.72	243.72	244.39	245.03	245.29	245.53	245.30	244.76	244.46	244.21	244.14
1971	244.09	244.12	244.49	245.04	245.47	245.33	245.16	244.83	244.66	244.24	243.78	243.73
1972	243.93	244.04	244.25	245.02	245.84	245.91	246.10	245.64	244.81	244.18	244.07	244.30
1973	244.84	245.52	245.99	246.84	246.82	246.68	246.22	245.57	244.81	244.31	243.97	244.06
1974	244.62	245.18	245.56	246.07	246.34	246.33	246.04	245.45	244.69	244.07	243.82	244.01
1975	244.36	244.73	245.21	245.70	245.79	245.83	245.51	245.07	244.74	244.58	244.13	243.96
1976	244.23	244.52	245.52	246.27	246.61	246.59	246.37	245.83	244.97	244.37	243.82	243.56

TABLE E-8

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	83	82	82	82	114	114	110	116	122	123	121	83
1901	82	81	81	81	99	90	102	109	102	82	110	70
1902	70	70	70	70	80	81	81	70	70	70	86	70
1903	70	70	70	70	81	100	91	99	92	91	98	70
1904	70	70	70	70	70	70	70	67	77	92	115	70
1905	70	70	70	70	89	86	92	97	118	117	113	82
1906	81	80	80	80	80	81	87	82	77	82	76	67
1907	67	67	67	67	81	86	87	83	117	117	114	70
1908	70	70	70	70	70	81	82	82	77	77	67	55
1909	55	55	55	55	75	81	70	82	87	81	86	76
1910	76	75	75	75	80	70	67	55	55	55	55	55
1911	55	55	55	55	55	67	67	81	89	89	55	67
1912	67	67	67	67	84	76	76	70	70	55	67	55
1913	55	55	55	55	81	81	77	88	92	116	115	76
1914	76	75	75	75	85	81	81	82	77	82	67	70
1915	70	70	69	69	75	70	89	86	76	105	113	86
1916	86	85	84	85	107	118	120	119	120	119	116	77
1917	76	76	76	76	81	81	95	55	71	71	55	67
1918	67	67	67	67	70	70	77	71	71	71	92	77
1919	76	76	76	76	86	81	76	67	55	55	55	67
1920	67	67	67	67	93	91	99	99	87	55	55	67
1921	67	67	67	67	80	81	76	76	67	55	55	55
1922	55	55	55	55	67	55	55	55	55	55	55	55
1923	55	55	55	55	67	55	55	55	55	55	55	55
1924	55	55	55	55	55	55	55	55	55	55	55	55
1925	55	55	55	55	67	55	55	55	55	55	55	55
1926	55	55	55	55	55	55	55	55	55	70	84	67
1927	67	67	67	67	99	108	111	114	113	110	110	67
1928	67	67	67	67	84	86	95	103	117	118	117	77
1929	76	76	76	76	103	90	67	82	55	55	55	67
1930	67	67	67	67	76	76	82	87	71	77	70	67
1931	67	67	67	67	69	70	67	67	55	55	70	70
1932	70	69	69	69	79	84	75	85	95	67	55	67
1933	67	67	67	67	69	75	70	70	67	70	75	67

TABLE E-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	67	67	67	67	82	90	84	80	80	102	107	84
1935	83	82	82	82	91	87	92	102	97	80	106	70
1936	69	69	69	69	95	103	102	88	88	70	55	55
1937	55	55	55	55	95	101	92	103	104	88	93	70
1938	69	69	69	70	96	96	103	100	100	90	93	76
1939	75	75	75	75	97	104	112	115	115	111	95	67
1940	67	67	67	67	69	80	85	80	67	55	55	55
1941	55	55	55	55	83	80	88	80	85	111	110	70
1942	70	70	69	70	80	89	76	81	81	70	101	76
1943	75	75	75	75	76	82	115	92	111	70	67	67
1944	67	67	67	67	75	81	99	109	117	114	90	76
1945	75	75	75	76	105	100	87	87	95	82	55	70
1946	70	70	70	70	89	81	81	81	76	95	112	76
1947	75	75	75	75	80	81	104	87	91	87	67	67
1948	67	67	67	67	88	76	70	70	76	55	55	67
1949	67	67	67	67	75	80	81	96	85	76	104	70
1950	69	69	69	69	75	103	112	116	115	115	114	86
1951	85	84	84	85	104	106	117	118	119	119	117	77
1952	77	76	76	76	103	98	104	115	111	82	55	55
1953	55	55	55	55	90	105	119	120	119	116	87	67
1954	67	67	67	67	97	108	117	103	82	70	55	55
1955	55	55	55	55	89	86	81	82	87	81	97	76
1956	75	75	74	74	70	70	70	70	67	55	55	67
1957	67	67	67	67	83	75	76	76	67	55	55	67
1958	67	67	67	67	74	69	70	70	75	80	67	70
1959	69	69	69	69	69	75	75	70	89	110	107	67
1960	67	67	67	67	75	81	76	67	55	55	55	67
1961	67	67	67	67	84	88	76	70	55	55	55	67
1962	67	67	67	67	75	80	70	70	67	70	55	55
1963	55	55	55	55	88	79	90	80	75	70	55	67
1964	67	67	67	67	85	94	99	93	103	106	104	74
1965	74	74	74	74	78	92	87	84	88	98	99	80
1966	79	79	79	79	93	96	92	85	102	84	106	67
1967	67	67	67	67	90	80	81	76	81	55	67	67

TABLE F-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	67	67	67	67	87	81	103	117	118	119	116	82
1969	82	81	81	81	109	107	96	82	91	82	55	67
1970	67	67	67	67	85	100	95	99	82	71	99	82
1971	81	81	81	81	101	117	117	117	92	88	116	82
1972	81	81	81	81	97	99	92	119	120	115	82	70
1973	70	70	70	70	104	103	97	107	93	71	55	67
1974	67	67	67	67	104	99	110	107	107	83	55	71
1975	70	70	70	70	106	104	107	88	55	55	55	70
1976	70	70	70	70	106	98	91	67	55	55	55	55

TABLE E-9

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 1SS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	149	143	143	183	189	192	197	202	205	206	206	199
1901	174	135	166	140	203	214	214	216	212	208	203	196
1902	154	160	193	193	195	198	198	200	199	193	192	188
1903	146	144	181	188	192	197	198	202	204	206	203	193
1904	165	160	166	195	204	210	211	211	211	210	207	198
1905	134	148	172	205	205	208	212	213	213	210	208	205
1906	203	161	181	211	212	213	213	211	208	204	200	185
1907	158	149	177	199	202	205	207	208	209	206	203	200
1908	147	140	173	195	202	209	214	212	209	203	199	193
1909	174	126	156	189	192	197	200	201	200	197	191	181
1910	147	149	187	192	195	197	197	195	194	190	188	174
1911	139	135	174	177	185	189	190	188	187	187	187	181
1912	142	150	166	176	189	198	200	202	203	202	200	199
1913	191	152	172	184	196	204	208	209	208	206	205	200
1914	167	165	176	199	196	201	205	204	202	199	196	183
1915	141	160	177	188	187	190	191	189	190	190	189	186
1916	173	151	158	193	200	209	214	214	213	213	212	205
1917	175	174	206	205	207	212	218	219	217	211	204	174
1918	151	169	184	170	225	227	225	223	217	213	210	207
1919	198	194	195	198	209	212	213	210	206	204	202	198
1920	134	145	182	203	208	209	210	210	210	208	202	196
1921	193	146	187	192	200	201	201	201	200	197	192	188
1922	154	148	177	191	200	202	206	206	202	198	194	190
1923	148	148	162	181	190	193	194	194	193	191	186	179
1924	157	127	162	171	180	183	184	189	190	184	181	159
1925	142	139	154	172	172	172	174	172	167	164	160	158
1926	115	122	133	156	164	170	173	172	170	165	166	166
1927	124	133	155	175	182	187	190	190	189	189	188	181
1928	152	129	149	193	199	202	204	207	209	212	215	211
1929	182	178	206	211	220	230	231	231	227	222	215	190
1930	168	177	201	199	203	210	214	214	209	202	198	190
1931	159	122	137	185	186	187	186	182	181	180	180	175
1932	169	168	145	172	172	177	178	179	178	177	173	159
1933	163	130	159	162	171	177	181	179	177	174	172	160

TABLE E-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 1SS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	121	134	145	166	173	176	176	174	173	174	174	169
1935	141	155	162	173	175	180	182	180	180	177	176	149
1936	139	143	161	173	177	181	181	181	181	180	175	170
1937	164	126	161	159	163	168	168	170	173	173	173	164
1938	139	155	143	178	184	189	192	192	193	191	187	182
1939	169	143	151	182	188	193	197	198	197	195	191	186
1940	132	148	156	173	176	179	183	185	185	182	179	176
1941	145	132	158	173	181	182	182	181	181	185	189	188
1942	155	113	170	188	192	196	198	196	193	193	190	184
1943	147	155	173	194	192	200	207	211	211	208	204	197
1944	149	167	172	195	194	197	201	201	201	199	196	189
1945	152	164	183	182	186	193	198	199	200	195	196	188
1946	166	156	195	202	203	202	201	200	198	194	191	185
1947	152	148	177	175	184	189	197	199	200	201	199	189
1948	171	165	177	187	189	193	194	193	190	185	181	177
1949	172	160	148	171	175	180	184	184	181	176	174	167
1950	154	134	142	159	170	178	185	190	190	189	187	179
1951	155	158	179	188	198	201	207	213	214	216	217	209
1952	203	197	201	209	217	221	227	231	228	222	216	210
1953	206	197	199	199	206	209	214	216	215	212	207	198
1954	166	153	188	189	195	204	211	212	211	210	210	204
1955	190	180	190	194	200	203	203	201	194	190	189	182
1956	139	139	166	179	177	185	188	190	188	186	184	179
1957	148	154	173	169	173	180	180	183	181	181	180	175
1958	142	130	166	164	175	174	173	173	172	171	169	157
1959	116	128	151	155	167	172	174	177	180	179	180	175
1960	164	145	166	177	192	200	205	206	204	200	198	180
1961	168	176	179	179	177	181	184	184	185	187	185	177
1962	151	143	173	179	184	187	187	186	185	180	175	164
1963	141	130	153	161	167	171	173	174	174	171	168	157
1964	136	139	149	151	154	158	161	163	163	163	162	157
1965	132	123	144	154	164	168	170	170	174	177	177	171
1966	168	160	169	178	180	181	182	180	177	175	173	169
1967	166	153	167	171	179	185	190	189	188	185	183	178

TABLE E-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 1SS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	163	160	176	178	184	186	190	193	197	198	195	187
1969	161	174	185	187	192	199	204	206	204	202	200	189
1970	144	161	186	188	195	200	204	205	206	205	202	197
1971	182	175	192	203	211	213	216	217	213	208	206	198
1972	192	184	189	194	204	208	210	216	220	218	212	206
1973	202	191	201	211	221	226	230	232	230	226	221	211
1974	200	200	203	207	216	224	230	231	230	225	220	211
1975	200	195	193	205	215	220	223	222	217	211	207	202
1976	166	174	194	207	215	221	220	218	213	205	200	181

TABLE E-10

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 15S

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	154	150	151	188	191	195	199	204	205	206	206	198
1901	179	155	172	138	190	208	214	217	212	208	204	200
1902	155	166	188	188	195	201	208	204	201	196	192	196
1903	157	148	190	195	201	204	208	206	207	206	206	212
1904	172	179	173	206	210	211	214	215	212	210	208	205
1905	143	167	187	200	206	212	218	218	215	214	211	207
1906	203	160	183	199	214	218	219	213	210	206	204	185
1907	175	157	182	201	208	206	210	213	211	209	205	203
1908	156	157	183	201	210	215	218	218	210	209	201	193
1909	180	137	155	194	199	199	202	201	200	200	198	184
1910	168	151	181	197	202	201	198	196	194	192	191	178
1911	139	143	170	176	187	190	190	189	188	188	190	184
1912	146	150	171	183	198	202	205	205	206	206	205	204
1913	192	154	173	197	206	207	209	210	209	208	209	201
1914	177	170	178	194	201	203	206	208	205	201	200	196
1915	143	167	169	186	192	192	195	195	194	190	190	189
1916	187	161	156	193	209	208	213	217	215	215	213	214
1917	168	175	204	211	217	216	220	224	215	216	209	178
1918	162	177	178	190	231	229	229	225	222	215	215	210
1919	211	198	206	212	217	216	214	215	212	210	208	197
1920	141	152	185	203	203	209	211	212	211	210	204	194
1921	192	143	193	197	200	202	202	201	200	201	192	191
1922	169	154	182	187	195	204	207	207	203	201	197	193
1923	159	151	167	183	190	195	195	195	194	193	190	174
1924	165	130	160	167	180	185	186	190	190	186	183	167
1925	153	142	159	164	166	174	175	172	169	167	164	152
1926	121	120	139	154	166	167	171	171	171	169	174	172
1927	129	134	158	176	183	187	192	189	189	190	192	183
1928	171	150	154	185	200	203	205	207	210	215	215	214
1929	194	180	215	228	233	238	239	234	228	222	216	199
1930	178	184	205	210	213	214	219	216	211	208	197	191
1931	162	130	138	184	184	187	187	183	184	184	182	180
1932	170	175	146	168	179	178	180	180	179	177	174	172
1933	168	149	163	170	178	186	184	181	177	174	173	160

A.E. 28

TABLE E-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 15S

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	132	134	155	170	175	176	177	173	173	173	173	172
1935	148	163	161	172	180	176	181	181	181	178	174	169
1936	147	146	159	168	174	181	181	181	184	179	176	171
1937	170	134	159	171	168	168	168	169	171	174	172	162
1938	144	161	158	179	186	189	192	192	194	192	188	185
1939	166	154	159	188	189	193	196	196	198	194	191	185
1940	142	149	155	172	176	183	184	185	186	184	185	183
1941	152	136	153	169	181	182	183	181	181	185	189	186
1942	161	121	166	189	194	199	200	197	197	191	191	189
1943	163	159	186	196	208	207	215	215	214	211	206	195
1944	156	165	175	197	198	203	206	202	202	200	196	196
1945	157	162	183	187	199	201	205	203	205	204	198	193
1946	175	167	198	202	204	207	205	202	198	195	190	186
1947	164	151	179	197	197	200	205	208	206	204	200	192
1948	181	176	193	194	202	200	200	199	194	186	181	179
1949	182	178	155	175	177	181	184	184	181	178	174	174
1950	170	149	157	177	176	182	189	191	194	193	189	186
1951	162	171	190	199	204	209	214	218	218	218	221	223
1952	218	210	215	220	223	226	232	236	234	224	218	212
1953	207	202	207	206	210	215	221	219	217	212	208	200
1954	167	167	197	198	201	210	215	213	214	216	213	208
1955	201	189	201	201	204	207	209	202	202	196	192	188
1956	148	142	174	189	200	193	195	199	198	193	188	181
1957	150	155	174	176	180	182	189	189	188	185	183	181
1958	139	136	168	161	176	177	177	176	175	175	168	164
1959	122	131	164	165	172	174	176	180	181	183	185	184
1960	174	155	170	192	197	206	206	207	206	202	198	191
1961	171	182	184	188	183	185	188	188	188	189	187	181
1962	152	148	181	183	185	189	188	188	186	182	178	166
1963	145	132	160	168	170	174	176	175	175	173	168	161
1964	141	133	153	156	158	161	163	166	166	164	162	159
1965	140	144	154	167	166	169	172	172	175	178	179	180
1966	172	167	176	184	183	185	184	183	180	177	177	179
1967	172	159	177	184	182	191	194	193	191	191	188	191

TABLE E-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 15S

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	169	176	187	183	187	192	194	196	198	199	197	194
1969	169	189	191	195	198	203	206	207	204	202	204	193
1970	150	164	190	196	197	201	205	206	206	207	205	203
1971	184	182	203	208	209	213	215	216	214	208	207	202
1972	197	187	201	203	206	209	212	218	220	220	218	214
1973	213	198	221	217	223	230	232	232	233	228	226	219
1974	214	212	217	217	223	225	230	232	229	228	222	215
1975	208	206	206	216	216	222	224	226	222	215	210	207
1976	169	191	212	214	220	223	226	221	215	208	203	183

TABLE E-11

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 15S

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	196	194	202	203	208	205	202	203	202	198	196	201
1901	198	189	174	191	193	198	198	198	201	188	187	188
1902	184	176	183	193	204	208	217	219	212	213	207	213
1903	196	210	220	229	230	225	221	218	219	213	205	204
1904	200	201	212	229	235	235	230	225	224	218	211	210
1905	203	195	195	203	216	223	222	221	220	215	210	214
1906	214	212	208	210	217	217	216	217	208	207	207	214
1907	232	209	206	223	220	231	228	224	223	221	217	219
1908	223	201	213	224	242	238	230	228	222	207	197	194
1909	190	190	198	202	223	229	221	218	210	200	199	207
1910	201	196	205	207	218	211	206	205	202	200	195	193
1911	184	182	183	191	201	201	195	193	192	193	189	195
1912	204	196	198	211	219	218	213	214	218	213	210	207
1913	219	223	222	248	248	241	232	227	221	215	213	217
1914	213	206	202	210	219	222	216	213	211	207	198	195
1915	187	189	192	191	199	202	202	209	209	206	199	197
1916	217	219	216	221	231	236	233	226	221	215	210	212
1917	213	206	209	223	232	240	244	240	237	231	232	229
1918	199	207	218	210	210	215	214	215	217	207	213	218
1919	217	216	221	228	241	241	232	227	217	220	210	204
1920	190	178	181	196	214	216	216	221	219	213	212	205
1921	216	212	201	215	226	228	217	212	207	202	202	204
1922	195	188	193	211	224	225	219	220	219	211	195	201
1923	186	180	184	192	205	208	204	199	196	191	187	192
1924	192	190	188	198	210	212	211	206	202	199	189	186
1925	178	174	183	188	193	198	184	184	182	177	175	175
1926	164	158	160	175	184	185	181	184	187	194	202	204
1927	195	189	192	197	204	206	203	202	199	194	193	210
1928	212	207	202	202	207	212	216	216	212	208	209	215
1929	216	216	226	241	256	252	248	242	237	230	229	232
1930	244	238	244	244	237	234	227	221	216	210	204	202
1931	194	186	181	187	199	200	198	195	191	187	184	186
1932	193	200	199	198	208	207	201	197	192	184	183	182
1933	185	183	187	197	210	209	200	195	189	183	176	176

TABLE E-11 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 158

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	169	161	161	170	179	178	175	174	172	168	164	164
1935	162	158	165	180	180	183	186	187	183	170	170	170
1936	158	150	162	177	186	189	179	175	174	173	171	168
1937	177	188	187	192	208	210	211	208	197	188	183	179
1938	175	180	191	212	213	211	208	208	205	198	193	194
1939	191	188	194	200	201	206	203	202	199	193	189	179
1940	171	166	171	184	198	203	202	199	198	193	188	191
1941	193	184	181	184	199	192	187	185	181	177	184	187
1942	184	183	188	201	208	211	208	208	207	203	202	207
1943	211	204	208	212	231	240	238	234	229	221	217	215
1944	204	198	201	212	225	219	213	209	205	201	197	194
1945	187	181	197	220	228	232	230	226	222	226	221	220
1946	218	207	212	211	215	222	221	210	204	199	196	193
1947	189	188	188	210	231	243	240	235	232	222	215	215
1948	212	204	214	225	234	226	221	216	209	200	197	195
1949	195	201	206	207	213	210	204	199	193	189	183	183
1950	195	207	209	223	228	228	219	214	213	208	206	218
1951	218	216	229	233	239	236	230	225	221	216	217	224
1952	234	246	249	252	255	250	242	237	236	225	217	223
1953	224	210	217	232	230	238	231	223	216	209	212	202
1954	196	194	206	222	233	228	220	217	213	218	230	231
1955	235	228	239	239	240	233	219	217	211	207	203	203
1956	191	180	194	205	227	230	224	224	219	209	201	199
1957	192	190	195	208	219	219	220	213	207	199	194	198
1958	196	184	185	188	195	196	197	198	194	187	182	178
1959	172	178	187	197	209	206	197	193	188	187	193	201
1960	206	206	205	209	217	220	218	218	215	205	199	197
1961	193	190	204	209	226	216	210	210	206	197	191	189
1962	179	178	185	193	199	199	194	192	187	186	184	182
1963	172	165	172	185	193	190	183	182	177	171	168	164
1964	158	157	164	174	186	183	177	175	171	163	160	159
1965	160	162	174	180	190	188	181	179	178	182	181	186
1966	189	187	194	194	202	201	196	194	192	175	177	189
1967	186	186	189	199	218	209	210	207	203	200	200	208

TABLE E-11 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 15S

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	209	214	214	215	217	218	216	215	213	206	203	211
1969	212	218	216	222	235	238	239	236	228	219	213	218
1970	207	189	195	205	217	220	218	216	213	219	217	221
1971	218	215	226	224	227	227	221	219	223	226	219	221
1972	222	218	226	230	241	239	238	236	236	235	239	248
1973	249	247	254	261	263	266	261	256	250	243	238	242
1974	244	250	261	262	266	263	255	249	244	236	235	242
1975	248	246	255	250	253	252	245	243	241	242	230	241
1976	238	223	250	262	264	257	253	248	242	228	219	212

TABLE E-12

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	215	227	238	246	248	219	217	221	240	245	235	252
1901	220	228	210	240	252	254	252	233	248	234	220	218
1902	212	208	222	239	220	212	246	292	287	273	254	235
1903	216	232	256	276	277	259	259	268	275	266	247	217
1904	210	218	234	270	285	291	294	300	293	279	252	213
1905	210	210	204	223	231	248	271	285	287	270	252	234
1906	220	253	250	241	230	229	246	257	253	243	251	247
1907	220	254	251	252	244	244	254	269	270	272	273	254
1908	220	256	265	278	290	294	297	296	271	253	225	212
1909	210	207	215	215	260	271	273	272	258	241	222	216
1910	210	218	232	240	250	246	233	239	252	249	236	216
1911	210	207	204	188	195	212	220	223	223	223	229	231
1912	220	233	234	246	267	276	286	278	270	269	271	253
1913	220	258	270	288	294	296	283	274	266	254	252	238
1914	216	236	227	248	257	254	248	244	253	246	230	216
1915	210	209	224	195	194	210	218	232	269	264	249	217
1916	219	246	249	260	276	291	304	306	276	252	234	216
1917	210	222	231	264	266	271	288	302	296	280	282	258
1918	218	226	254	272	259	242	245	247	254	258	268	247
1919	220	250	255	264	278	294	297	286	268	254	245	215
1920	210	207	204	192	197	216	220	244	269	266	261	253
1921	220	250	257	263	256	242	240	231	225	224	227	236
1922	215	212	227	244	262	264	260	273	268	253	228	212
1923	210	207	204	190	196	217	230	232	235	224	222	232
1924	220	236	228	225	242	252	256	262	253	253	232	212
1925	210	207	211	225	216	212	216	220	221	215	216	228
1926	210	207	204	188	199	209	216	220	224	252	264	262
1927	220	243	248	248	225	216	218	230	236	242	241	254
1928	220	256	263	265	265	254	264	274	274	261	260	248
1929	220	256	266	283	302	305	303	306	292	278	270	256
1930	220	260	280	297	299	288	286	273	262	246	220	212
1931	210	207	204	188	193	214	221	222	223	216	210	210
1932	212	239	242	247	250	234	222	226	225	218	223	222
1933	214	210	204	216	240	231	221	221	222	214	203	210

TABLE E-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	210	207	204	188	188	193	199	200	200	196	198	210
1935	210	207	204	188	188	193	206	211	211	202	198	210
1936	210	207	204	203	220	209	211	210	212	205	202	210
1937	210	213	222	196	221	222	246	250	235	221	224	214
1938	210	217	235	246	245	222	221	226	243	258	242	216
1939	210	207	226	238	248	228	218	220	222	222	213	210
1940	210	207	204	188	193	229	248	247	224	226	216	217
1941	220	233	219	194	192	204	210	214	214	207	204	210
1942	210	207	216	244	253	258	236	248	250	248	249	247
1943	220	250	258	267	281	300	304	310	298	272	271	249
1944	210	224	222	228	244	250	259	252	246	235	221	213
1945	210	207	213	255	271	286	293	292	278	294	292	273
1946	220	255	264	266	238	233	240	242	236	235	243	219
1947	216	242	236	254	275	297	302	310	308	286	266	245
1948	219	230	242	273	282	281	266	258	250	234	224	216
1949	212	229	240	245	238	220	220	222	223	221	212	210
1950	212	236	241	268	276	264	258	256	261	253	254	256
1951	220	258	276	291	303	308	301	288	279	263	256	251
1952	220	260	280	299	306	308	304	293	283	270	246	243
1953	220	248	249	262	262	276	268	268	260	244	225	221
1954	210	216	247	258	281	281	270	253	253	257	274	260
1955	220	257	276	290	298	285	265	259	253	250	272	244
1956	210	215	230	240	267	280	277	267	266	254	229	214
1957	210	218	225	222	214	220	251	260	251	232	218	213
1958	211	207	204	188	194	212	218	220	225	241	233	214
1959	210	207	218	243	256	252	238	221	221	220	216	231
1960	220	246	250	258	276	293	284	266	253	240	223	214
1961	210	207	204	202	233	261	252	245	246	231	235	216
1962	210	207	204	188	194	209	213	219	220	215	213	210
1963	208	207	198	187	191	205	213	218	217	212	205	210
1964	210	207	193	177	184	195	201	207	207	205	198	192
1965	185	182	179	182	176	190	201	206	202	204	208	222
1966	220	225	238	236	215	214	219	220	221	214	208	210
1967	210	207	204	196	208	218	237	252	252	258	272	275

TABLE E-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244	251	238	260	239	232	248	256	264	256	250	254
1969	232	252	255	265	275	286	291	287	271	251	246	240
1970	226	231	227	227	235	235	248	258	255	259	266	256
1971	234	249	266	272	287	276	262	258	265	262	258	245
1972	221	231	255	275	291	302	310	310	307	299	289	270
1973	250	284	298	324	337	350	350	324	317	306	293	269
1974	239	268	300	309	308	328	336	330	314	304	277	287
1975	255	250	287	304	305	308	286	280	282	288	285	263
1976	245	259	249	306	328	348	350	326	309	302	294	232

TABLE E-13

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 1958, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	216	226	238	246	248	219	217	221	239	245	234	252
1901	226	226	207	240	252	253	252	233	248	234	220	216
1902	210	203	222	240	221	213	252	292	286	272	254	235
1903	214	232	256	280	278	258	258	267	274	266	246	214
1904	204	220	236	274	285	291	306	297	292	278	250	210
1905	204	211	202	225	233	249	272	286	288	271	252	235
1906	224	255	248	240	230	228	245	256	253	243	251	247
1907	227	259	249	250	243	242	254	268	270	272	273	260
1908	228	257	260	280	291	296	294	293	268	250	222	209
1909	204	202	218	219	261	271	274	272	258	242	222	212
1910	204	220	235	242	251	248	234	240	252	249	237	212
1911	204	202	199	188	195	212	220	223	223	226	234	235
1912	233	233	234	248	274	285	286	274	267	267	270	265
1913	227	268	262	291	295	292	277	269	263	252	248	235
1914	215	236	227	248	257	254	248	244	253	246	230	212
1915	204	209	226	196	194	210	218	235	270	265	250	216
1916	224	248	249	261	276	296	316	302	272	248	226	215
1917	208	223	231	265	268	270	292	301	295	280	280	257
1918	218	226	254	272	259	242	245	247	254	258	268	256
1919	224	250	252	262	276	298	296	284	266	252	242	211
1920	204	202	197	194	197	216	220	250	272	268	263	264
1921	228	254	256	262	253	240	239	230	225	223	226	235
1922	212	210	227	244	264	264	280	273	268	254	228	209
1923	204	200	196	192	196	220	234	236	238	226	223	234
1924	230	235	227	224	242	252	256	262	253	253	232	210
1925	204	200	212	228	218	212	216	220	221	215	217	233
1926	204	200	196	188	202	209	216	220	225	256	267	274
1927	228	244	248	247	224	216	218	228	234	242	240	273
1928	234	264	263	265	260	246	257	269	270	258	257	258
1929	224	259	260	286	302	311	312	300	285	273	264	246
1930	228	270	284	302	299	280	281	269	259	241	218	210
1931	204	200	196	188	193	214	221	222	223	216	210	206
1932	212	239	242	250	255	237	224	228	227	218	224	224
1933	215	210	200	218	242	232	221	221	222	214	204	204

TABLE E-13 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 1958, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	204	200	196	188	188	193	199	200	202	204	204	204
1935	204	200	196	188	188	193	206	211	211	204	204	204
1936	204	200	196	215	230	210	211	210	212	206	204	204
1937	204	222	230	201	226	225	249	252	237	221	225	214
1938	204	217	236	249	247	223	221	226	244	260	243	214
1939	204	204	230	240	249	230	218	220	222	222	213	206
1940	204	200	196	188	194	236	253	250	226	228	216	218
1941	230	232	219	194	192	204	210	214	214	207	204	204
1942	204	200	216	248	256	260	237	250	252	249	249	248
1943	228	253	258	266	281	310	315	308	293	267	267	240
1944	204	225	223	228	244	250	259	253	246	235	221	210
1945	204	200	214	258	277	289	294	292	278	294	292	283
1946	228	256	260	264	234	231	238	240	235	234	242	218
1947	216	242	236	254	275	297	310	316	308	284	264	240
1948	219	230	242	273	282	281	265	257	250	234	224	213
1949	210	230	241	246	238	220	220	222	223	221	212	206
1950	208	239	242	270	278	265	259	256	262	253	254	264
1951	228	262	274	291	309	308	296	284	276	260	252	256
1952	227	271	279	299	310	310	298	288	278	266	237	242
1953	222	250	247	260	262	275	268	268	259	244	224	220
1954	204	217	248	261	289	279	268	252	252	256	274	278
1955	229	260	268	290	300	279	260	256	250	248	270	240
1956	204	218	230	241	268	282	277	267	266	254	229	211
1957	204	220	226	223	214	220	252	261	252	233	218	210
1958	206	200	197	190	194	212	218	220	226	246	237	213
1959	204	204	222	245	259	255	240	221	221	220	216	239
1960	234	247	250	258	276	290	284	263	251	235	222	210
1961	204	200	196	211	250	257	260	252	245	226	220	210
1962	204	200	196	188	194	209	213	219	220	216	210	212
1963	204	200	196	188	192	205	208	213	212	204	204	204
1964	204	200	196	188	188	195	201	203	204	204	204	204
1965	204	200	196	188	188	193	201	206	209	204	204	223
1966	223	225	236	236	216	214	219	220	221	212	204	205
1967	204	201	196	198	204	217	240	255	254	260	274	276

TABLE E-13 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	232	255	253	263	244	238	249	254	262	254	249	265
1969	225	259	253	263	272	283	290	286	270	250	243	242
1970	220	232	228	230	235	235	248	258	255	259	266	276
1971	226	253	262	277	288	274	260	256	264	261	256	249
1972	223	251	255	272	291	302	310	310	302	292	286	292
1973	235	280	297	322	325	326	323	316	307	301	294	290
1974	234	280	291	311	320	321	320	314	306	295	283	284
1975	230	270	280	305	309	304	292	284	285	291	287	279
1976	228	262	284	312	321	323	323	319	311	304	296	269

TABLE E-14

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 1958, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	216	226	238	246	248	219	217	221	239	245	233	252
1901	226	226	207	240	252	253	252	233	248	234	220	216
1902	210	203	222	241	221	213	253	292	286	272	254	235
1903	214	232	260	284	275	256	257	266	274	265	245	213
1904	202	221	236	279	297	301	300	292	287	274	244	208
1905	202	211	202	225	233	249	272	286	288	271	252	235
1906	224	256	248	240	230	228	245	256	253	243	251	247
1907	227	261	248	250	243	242	254	268	270	272	272	260
1908	228	261	263	284	290	296	292	292	268	248	222	208
1909	202	202	218	219	262	274	273	272	258	241	222	212
1910	203	220	235	242	251	248	234	240	252	249	237	212
1911	202	202	200	188	195	212	220	223	223	226	234	235
1912	234	237	235	250	273	291	284	273	266	266	269	263
1913	227	272	265	301	292	288	274	267	261	250	244	234
1914	215	236	227	248	257	254	248	244	253	246	230	212
1915	202	210	226	196	194	210	218	236	270	265	250	216
1916	224	251	250	265	280	304	311	298	270	245	222	214
1917	207	223	231	264	268	270	292	301	295	280	280	257
1918	218	226	258	272	258	242	244	246	253	258	268	256
1919	224	255	255	261	276	301	294	282	265	252	239	210
1920	202	202	196	194	197	216	220	250	273	269	263	264
1921	228	258	260	264	251	238	237	228	224	223	226	233
1922	210	210	227	246	266	263	279	273	268	253	228	208
1923	202	200	195	192	196	221	235	236	238	226	224	234
1924	231	235	227	224	242	252	256	262	253	253	232	208
1925	202	200	212	228	218	212	216	220	221	215	217	234
1926	202	200	195	188	202	209	216	220	225	256	267	274
1927	228	247	251	248	222	216	218	227	233	241	240	272
1928	234	277	270	268	254	240	253	266	268	256	256	257
1929	224	262	263	292	313	316	307	293	280	270	258	243
1930	227	276	287	310	297	278	279	267	257	238	217	208
1931	202	200	195	188	193	214	221	222	223	216	210	205
1932	212	247	250	251	252	236	222	227	226	218	224	223
1933	214	210	200	218	242	232	221	221	222	214	204	202

A.E. 40

TABLE E-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 1SS, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	202	200	195	188	188	193	199	200	202	202	202	202
1935	202	200	195	188	188	193	206	211	211	203	202	202
1936	202	200	195	220	235	211	211	210	212	205	202	202
1937	202	227	234	204	228	227	250	252	238	221	225	214
1938	202	218	239	252	248	222	221	226	244	259	242	213
1939	202	204	230	240	250	230	218	220	222	222	213	205
1940	202	200	195	188	195	236	253	251	226	229	216	218
1941	230	232	219	194	192	204	210	214	214	207	204	202
1942	202	201	222	255	254	259	237	249	251	249	249	248
1943	228	256	264	268	285	315	312	310	289	264	262	235
1944	203	225	223	228	244	250	259	253	246	235	222	210
1945	202	200	215	258	277	289	294	292	278	296	298	283
1946	226	260	262	264	232	229	237	239	234	234	241	217
1947	215	242	236	253	278	311	314	328	312	275	248	228
1948	217	230	241	273	282	281	265	257	250	234	224	212
1949	210	230	242	246	238	220	220	222	223	221	212	205
1950	207	239	243	273	277	264	258	256	261	253	254	264
1951	228	266	277	306	316	301	291	280	273	258	247	254
1952	227	275	282	312	316	308	291	283	274	263	231	241
1953	222	250	247	260	262	275	268	268	259	244	224	220
1954	203	217	248	264	289	279	268	252	252	256	274	278
1955	229	264	272	305	299	274	256	252	248	246	268	237
1956	203	218	230	241	268	282	277	267	266	254	229	210
1957	203	221	227	223	214	220	252	261	252	233	218	209
1958	205	200	196	190	194	212	218	220	227	246	238	213
1959	202	204	225	250	258	254	240	221	221	220	216	238
1960	234	254	255	262	285	288	279	259	248	231	221	208
1961	202	200	195	211	250	257	260	252	245	226	220	209
1962	202	200	195	188	194	209	213	219	220	217	211	212
1963	202	200	195	188	192	205	208	213	212	203	202	202
1964	202	200	195	188	188	195	201	203	204	202	202	202
1965	202	200	195	188	188	193	201	206	209	204	205	228
1966	225	227	242	238	215	214	219	220	221	212	204	204
1967	202	202	195	198	204	217	241	256	255	261	274	276

TABLE F-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 1958, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	232	267	259	265	240	235	246	251	260	253	248	264
1969	224	263	255	262	271	282	288	286	269	250	242	242
1970	220	232	228	230	235	235	248	258	255	259	266	276
1971	226	257	265	283	288	270	257	254	262	260	253	248
1972	223	253	258	271	295	300	315	319	306	288	283	302
1973	234	280	296	338	340	337	326	315	302	291	276	280
1974	232	280	290	326	332	330	325	314	298	280	258	278
1975	228	272	281	316	309	298	288	281	283	291	290	273
1976	227	266	287	327	336	337	335	330	314	299	266	235

TABLE E-15

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	215	227	238	246	248	219	217	221	240	245	235	252
1901	220	228	210	240	252	254	252	233	248	234	220	218
1902	212	208	222	239	220	212	246	292	287	273	254	235
1903	216	232	256	276	277	259	259	268	275	266	247	217
1904	210	218	234	270	285	291	294	300	293	279	252	213
1905	210	210	204	223	231	248	271	285	287	270	252	234
1906	220	253	250	241	230	229	246	257	253	243	251	247
1907	220	254	251	252	244	244	254	269	270	272	273	254
1908	220	256	265	278	290	296	297	296	271	253	225	212
1909	210	207	215	215	260	271	273	272	258	241	222	216
1910	210	218	232	240	250	246	233	239	252	249	236	216
1911	210	207	204	188	195	212	220	223	223	223	229	231
1912	220	233	234	246	267	276	286	278	270	269	271	253
1913	220	258	270	288	294	296	283	274	266	254	252	238
1914	216	236	227	248	257	254	248	244	253	246	230	216
1915	210	209	224	195	194	210	218	232	269	264	249	217
1916	219	246	249	260	276	291	304	306	276	252	234	216
1917	210	222	231	264	266	271	288	302	296	280	282	258
1918	218	226	254	272	259	242	245	247	254	258	268	247
1919	220	250	255	264	278	294	297	286	268	254	245	215
1920	210	207	204	192	197	216	220	244	269	266	261	253
1921	220	250	257	263	256	242	240	231	225	224	227	236
1922	215	212	227	244	262	264	280	273	268	253	228	212
1923	210	207	204	190	196	217	230	232	235	224	222	232
1924	220	236	228	225	242	252	256	262	253	253	232	212
1925	210	207	211	225	216	212	216	220	221	215	216	228
1926	210	207	204	188	199	209	216	220	224	252	264	262
1927	220	243	248	248	225	216	218	230	236	242	241	254
1928	220	256	263	265	265	254	264	274	274	261	260	248
1929	220	256	266	283	302	305	303	306	292	278	270	256
1930	220	260	280	297	299	288	286	273	262	246	220	212
1931	210	207	204	188	193	214	221	222	223	216	210	210
1932	212	239	242	247	250	234	222	226	225	218	223	222
1933	214	210	204	216	240	231	221	221	222	214	203	210

TABLE E-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 15S, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	210	207	204	188	188	193	199	200	200	196	198	210
1935	210	207	204	188	188	193	206	211	211	202	198	210
1936	210	207	204	203	220	209	211	210	212	205	202	210
1937	210	213	222	196	221	222	246	250	235	221	224	214
1938	210	217	235	246	245	222	221	226	243	258	242	216
1939	210	207	226	238	248	228	218	220	222	222	213	210
1940	210	207	204	188	193	229	248	247	224	226	216	217
1941	220	233	219	194	192	204	210	214	214	207	204	210
1942	210	207	216	244	253	258	236	248	250	248	249	247
1943	220	250	258	267	281	300	304	310	298	272	271	249
1944	210	224	222	228	244	250	259	252	246	235	221	213
1945	210	207	213	255	271	286	293	292	278	294	292	273
1946	220	255	264	266	238	233	240	242	236	235	243	219
1947	216	242	236	254	275	297	302	310	308	286	266	245
1948	219	230	242	273	282	281	266	258	250	234	224	216
1949	212	229	240	245	238	220	220	222	223	221	212	210
1950	212	236	241	268	276	264	258	256	261	253	254	256
1951	220	258	276	291	303	308	301	288	279	263	256	251
1952	220	260	280	299	306	308	304	293	283	270	246	243
1953	220	248	249	262	262	276	268	268	260	244	225	221
1954	210	216	247	258	281	281	270	253	253	257	274	260
1955	220	257	276	290	298	285	265	259	253	250	272	244
1956	210	215	230	240	267	280	277	267	266	254	229	214
1957	210	218	225	222	214	220	251	260	251	232	218	213
1958	211	207	204	188	194	212	218	220	225	241	233	214
1959	210	207	218	243	256	252	238	221	221	220	216	231
1960	220	246	250	258	276	293	284	266	253	240	223	214
1961	210	207	204	202	233	261	252	245	246	231	235	216
1962	210	207	204	188	194	209	213	219	220	215	213	210
1963	208	207	198	187	191	205	213	218	217	212	205	210
1964	210	207	193	177	184	195	201	207	207	205	198	192
1965	185	182	179	182	176	190	201	206	202	204	208	222
1966	220	225	238	236	215	214	219	220	221	214	208	210
1967	210	207	204	196	208	218	237	252	252	258	272	275

TABLE E-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244	251	238	260	239	232	248	256	264	256	250	254
1969	232	252	255	265	275	286	291	287	271	251	246	240
1970	226	231	227	227	235	235	248	258	255	259	266	256
1971	234	249	266	272	287	276	262	258	265	262	258	245
1972	221	231	255	275	291	302	310	310	307	299	289	270
1973	250	284	298	324	337	350	350	324	317	306	293	269
1974	239	268	300	309	308	328	336	330	314	304	277	287
1975	255	250	287	304	305	308	286	280	282	288	285	263
1976	245	259	289	306	328	348	350	326	309	302	294	232

TABLE E-16

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	216	226	238	246	248	219	217	221	239	245	234	252
1901	226	226	207	240	252	253	252	233	248	234	220	216
1902	210	203	222	240	221	213	252	292	286	272	254	235
1903	214	232	256	280	278	258	258	267	274	266	246	214
1904	204	220	236	274	285	291	306	297	292	278	250	210
1905	204	211	202	225	233	249	272	286	288	271	252	235
1906	224	255	248	240	230	228	245	256	253	243	251	247
1907	227	259	249	250	243	242	254	268	270	272	273	260
1908	228	257	260	280	291	296	294	293	268	250	222	209
1909	204	202	218	219	261	271	274	272	258	242	222	212
1910	204	220	235	242	251	248	234	240	252	249	237	212
1911	204	202	199	188	195	212	220	223	223	226	234	235
1912	233	233	234	248	274	285	286	274	267	267	270	265
1913	227	268	262	291	295	292	277	269	263	252	248	235
1914	215	236	227	248	257	254	248	244	253	246	230	212
1915	204	209	226	196	194	210	218	235	270	265	250	216
1916	224	248	249	261	276	296	316	302	272	248	226	215
1917	208	223	231	265	268	270	292	301	295	280	280	257
1918	218	226	254	272	259	242	245	247	254	258	268	256
1919	224	250	252	262	276	298	296	284	266	252	242	211
1920	204	202	197	194	197	216	220	250	272	268	263	264
1921	228	254	256	262	253	240	239	230	225	223	226	235
1922	212	210	227	244	264	264	280	273	268	254	228	209
1923	204	200	196	192	196	220	234	236	238	226	223	234
1924	230	235	227	224	242	252	256	262	253	253	232	210
1925	204	200	212	228	218	212	216	220	221	215	217	233
1926	204	200	196	188	202	209	216	220	225	256	267	274
1927	228	244	248	247	224	216	218	228	234	242	240	273
1928	234	264	263	265	260	246	257	269	270	258	257	258
1929	224	259	260	286	302	311	312	300	285	273	264	246
1930	228	270	284	302	299	280	281	269	259	241	218	210
1931	204	200	196	188	193	214	221	222	223	216	210	206
1932	212	239	242	250	255	237	224	228	227	218	224	224
1933	215	210	200	218	242	232	221	221	222	214	204	204

TABLE E-16 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	204	200	196	188	188	193	199	200	202	204	204	204
1935	204	200	196	188	188	193	206	211	211	204	204	204
1936	204	200	196	215	230	210	211	210	212	206	204	204
1937	204	222	230	201	226	225	249	252	237	221	225	214
1938	204	217	236	249	247	223	221	226	244	260	243	214
1939	204	204	230	240	249	230	218	220	222	222	213	206
1940	204	200	196	188	194	236	253	250	226	228	216	218
1941	230	232	219	194	192	204	210	214	214	207	204	204
1942	204	200	216	248	256	260	237	250	252	249	249	248
1943	228	253	258	266	281	310	315	308	293	267	267	240
1944	204	225	223	228	244	250	259	253	246	235	221	210
1945	204	200	214	258	277	289	294	292	278	294	292	283
1946	228	256	260	264	234	231	238	240	235	234	242	218
1947	216	242	236	254	275	297	310	316	308	284	264	240
1948	219	230	242	273	282	281	265	257	250	234	224	213
1949	210	230	241	246	238	220	220	222	223	221	212	206
1950	208	239	242	270	278	265	259	256	262	253	254	264
1951	228	262	274	291	309	308	296	284	276	260	252	256
1952	227	271	279	299	310	310	298	288	278	266	237	242
1953	222	250	247	260	262	275	268	268	259	244	224	220
1954	204	217	248	261	289	279	268	252	252	256	274	278
1955	229	260	268	290	300	279	260	256	250	248	270	240
1956	204	218	230	241	268	282	277	267	266	254	229	211
1957	204	220	226	223	214	220	252	261	252	233	218	210
1958	206	200	197	190	194	212	218	220	226	246	237	213
1959	204	204	222	245	259	255	240	221	221	220	216	239
1960	234	247	250	258	276	290	284	263	251	235	222	210
1961	204	200	196	211	250	257	260	252	245	226	220	210
1962	204	200	196	188	194	209	213	219	220	216	210	212
1963	204	200	196	188	192	205	208	213	212	204	204	204
1964	204	200	196	188	188	195	201	203	204	204	204	204
1965	204	200	196	188	188	193	201	206	209	204	204	223
1966	223	225	236	236	216	214	219	220	221	212	204	205
1967	204	201	196	198	204	217	240	255	254	260	274	276

TABLE E-16 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	232	255	253	263	244	238	249	254	262	254	249	265
1969	225	259	253	263	272	283	290	286	270	250	243	242
1970	220	232	228	230	235	235	248	258	255	259	266	276
1971	226	253	262	277	288	274	260	256	264	261	256	249
1972	223	251	255	272	291	302	310	310	302	292	286	292
1973	235	280	297	322	325	326	323	316	307	301	294	290
1974	234	280	291	311	320	321	320	314	306	295	283	284
1975	230	270	280	305	309	304	292	284	285	291	287	279
1976	228	262	284	312	321	323	323	319	311	304	296	269

TABLE E-17

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	242	255	258	326	336	280	271	264	266	276	279	283
1901	251	238	226	346	359	327	282	251	268	255	243	245
1902	234	216	286	331	315	294	307	321	302	291	289	273
1903	240	258	331	368	346	309	301	294	285	290	262	220
1904	215	233	265	374	432	419	348	320	312	318	277	229
1905	220	220	218	292	308	306	305	308	307	291	277	254
1906	251	280	266	290	310	305	279	270	261	252	263	261
1907	251	270	265	305	331	316	298	288	286	300	310	294
1908	255	282	291	356	446	390	331	309	277	255	232	218
1909	216	218	234	309	420	378	314	305	282	263	243	234
1910	226	237	272	322	323	302	255	255	271	271	264	230
1911	219	213	208	248	296	274	246	236	233	236	247	261
1912	260	250	246	326	372	389	324	295	288	288	330	308
1913	278	308	320	396	378	332	293	276	272	266	282	270
1914	235	252	244	298	319	284	270	252	258	252	238	225
1915	216	224	242	233	250	244	243	252	284	280	262	230
1916	251	279	272	371	420	395	350	317	281	264	252	245
1917	229	239	252	343	362	358	348	337	316	299	308	276
1918	231	238	278	350	335	294	288	266	274	304	334	300
1919	258	274	295	348	409	386	321	295	282	283	288	250
1920	223	220	228	271	270	254	250	272	288	282	284	294
1921	251	270	318	352	321	270	254	242	234	237	246	256
1922	228	225	261	364	372	314	310	291	282	265	240	219
1923	213	208	207	246	319	290	266	254	258	240	242	263
1924	260	254	252	302	362	322	289	282	272	283	254	236
1925	216	227	262	316	295	273	255	246	241	237	252	268
1926	226	216	210	247	299	282	260	244	242	275	312	314
1927	258	279	309	297	277	270	259	258	251	262	296	325
1928	279	312	307	384	400	324	300	299	297	315	327	304
1929	265	292	319	396	445	379	347	313	296	289	285	262
1930	259	298	310	368	356	331	331	293	275	256	234	222
1931	216	212	212	232	236	244	238	237	235	228	226	230
1932	246	278	274	336	307	266	248	248	262	270	296	262
1933	251	235	224	334	338	275	243	243	238	230	217	216

TABLE E-17 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 158, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	219	208	214	287	286	241	228	212	214	219	218	230
1935	235	223	236	245	241	228	238	232	227	218	224	224
1936	224	216	260	296	352	277	236	226	229	234	244	232
1937	251	267	270	280	318	269	271	273	254	242	272	248
1938	231	249	305	356	332	263	240	244	264	282	262	235
1939	224	228	258	312	347	284	252	248	240	240	238	228
1940	220	216	212	253	262	306	296	272	246	246	238	246
1941	263	258	241	270	244	228	230	232	232	237	249	239
1942	234	232	273	337	317	305	257	265	266	265	270	269
1943	254	284	308	338	417	386	346	329	309	285	291	258
1944	226	241	252	272	298	273	274	266	261	252	240	229
1945	227	220	276	332	347	342	318	307	296	327	330	306
1946	257	288	320	316	275	268	252	253	249	256	273	256
1947	258	287	276	364	431	451	370	351	329	291	267	249
1948	238	252	291	334	329	308	281	271	262	245	238	230
1949	243	261	284	333	298	250	246	237	238	238	230	233
1950	244	265	276	340	332	303	286	278	285	275	287	296
1951	266	301	334	441	386	326	321	296	291	285	304	293
1952	264	312	322	394	388	355	315	307	292	288	253	272
1953	253	283	303	340	312	296	283	281	270	257	239	237
1954	224	246	296	352	344	322	293	270	276	307	325	319
1955	276	304	323	428	348	301	274	268	264	266	[illegible]	268
1956	232	241	258	316	338	330	306	293	302	294	[illegible]	240
1957	236	255	272	264	255	250	306	283	278	265	264	261
1958	246	242	249	273	238	248	253	247	255	282	279	246
1959	232	234	257	331	312	287	265	244	247	250	265	289
1960	276	301	296	392	410	332	333	296	274	256	248	236
1961	227	227	222	272	304	300	300	282	276	258	248	241
1962	238	238	234	274	260	240	235	242	239	240	240	234
1963	222	220	220	269	238	232	226	230	235	222	231	233
1964	231	226	238	245	229	227	222	220	218	219	219	224
1965	225	230	223	232	242	217	218	229	242	268	261	277
1966	269	269	307	308	273	260	243	246	243	236	241	272
1967	244	250	229	298	287	279	283	280	280	302	346	328

TABLE E-17 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 15S, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	278	310	316	344	280	266	281	278	285	277	279	297
1969	260	298	289	354	353	332	321	316	294	276	288	282
1970	258	268	266	309	314	289	296	296	283	290	304	313
1971	267	299	311	390	382	308	282	277	286	283	276	280
1972	252	285	292	366	410	360	372	366	342	329	344	354
1973	292	336	394	429	415	387	360	342	326	322	311	327
1974	279	324	350	423	473	417	365	334	317	304	303	326
1975	276	315	334	400	382	346	316	302	308	321	330	326
1976	287	326	369	473	437	382	368	356	340	334	298	284

Annex F

REGULATION PLAN 25N

Annex F

PLAN 25N

Table		Page
F-1	Lake Superior Monthly Mean Elevation	A.F.1
F-2	Lakes Michigan-Huron Monthly Mean Elevation	A.F.4
F-3	Lake St. Clair Monthly Mean Elevation	A.F.7
F-4	Lake Erie Monthly Mean Elevation	A.F.10
F-5	Lake Ontario Monthly Mean Elevation (With Deviation) Category 1	A.F.13
F-6	Lake Ontario Monthly Mean Elevation (With Deviation) Category 2	A.F.16
F-7	Lake Ontario Monthly Mean Elevation (With Deviation) Category 3	A.F.19
F-8	Lake Superior Monthly Mean Outflow	A.F.22
F-9	Lakes Michigan-Huron Monthly Mean Outflow	A.F.25
F-10	Lake St. Clair Monthly Mean Outflow	A.F.28
F-11	Lake Erie Monthly Mean Outflow	A.F.31
F-12	Lake Ontario Monthly Mean Outflow (With Deviation) Category 1	A.F.34
F-13	Lake Ontario Monthly Mean Outflow (With Deviation) Category 2	A.F.37
F-14	Lake Ontario Monthly Mean Outflow (With Deviation) Category 3	A.F.40
F-15	Lake St. Louis Monthly Mean Outflow (With Deviation) Category 1	A.F.43
F-16	Lake St. Louis Monthly Mean Outflow (With Deviation) Category 2	A.F.46
F-17	Lake St. Louis Monthly Mean Outflow (With Deviation) Category 3	A.F.49

TABLE F-1

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	601.36	601.16	600.98	600.92	601.02	601.00	601.10	601.40	601.77	601.93	601.68	601.31
1901	600.95	600.65	600.49	600.52	600.64	600.85	601.15	601.25	601.10	601.01	600.87	600.55
1902	600.25	600.01	599.88	599.92	600.14	600.43	600.63	600.70	600.73	600.75	600.72	600.57
1903	600.33	600.02	599.88	600.05	600.48	600.80	600.91	601.03	601.08	601.06	600.88	600.55
1904	600.22	600.06	599.97	599.93	600.21	600.59	600.74	600.90	601.11	601.24	601.08	600.72
1905	600.39	600.17	600.18	600.30	600.53	600.84	601.09	601.26	601.36	601.28	601.07	600.85
1906	600.57	600.35	600.15	600.15	600.41	600.74	600.94	600.96	600.97	600.90	600.78	600.60
1907	600.40	600.25	600.20	600.19	600.42	600.79	600.96	601.18	601.39	601.30	600.98	600.57
1908	600.21	600.00	599.86	599.86	600.26	600.77	601.04	601.08	601.02	600.87	600.60	600.33
1909	600.08	599.89	599.75	599.72	600.05	600.32	600.55	600.79	600.80	600.73	600.68	600.60
1910	600.37	600.11	599.90	599.91	600.05	600.13	600.18	600.29	600.35	600.25	600.10	599.84
1911	599.56	599.37	599.19	599.13	599.40	599.84	600.25	600.55	600.64	600.53	600.31	600.14
1912	599.97	599.81	599.74	599.93	600.24	600.48	600.64	600.77	600.84	600.80	600.62	600.38
1913	600.12	599.85	599.88	600.13	600.46	600.72	600.93	601.11	601.21	601.20	601.06	600.81
1914	600.48	600.21	599.99	600.01	600.31	600.57	600.74	600.84	600.88	600.78	600.62	600.33
1915	600.07	599.95	599.70	599.65	599.88	600.26	600.58	600.64	600.78	600.93	600.90	600.79
1916	600.61	600.41	600.23	600.46	600.99	601.40	601.55	601.54	601.57	601.53	601.24	600.97
1917	600.70	600.43	600.37	600.39	600.52	600.77	600.95	601.08	601.17	601.10	600.91	600.62
1918	600.37	600.22	600.05	600.01	600.32	600.69	600.90	601.01	601.03	601.05	601.06	600.95
1919	600.75	600.53	600.35	600.38	600.59	600.72	600.77	600.74	600.73	600.65	600.60	600.48
1920	600.25	600.12	600.20	600.43	600.63	600.88	601.10	601.12	600.95	600.82	600.68	600.49
1921	600.25	599.96	599.84	600.02	600.37	600.53	600.60	600.65	600.60	600.46	600.19	599.85
1922	599.53	599.32	599.24	599.41	599.80	600.13	600.37	600.51	600.51	600.37	600.12	599.87
1923	599.64	599.40	599.25	599.30	599.44	599.58	599.78	599.93	599.97	599.98	599.90	599.70
1924	599.46	599.22	599.03	599.06	599.22	599.32	599.49	599.74	599.92	599.93	599.76	599.44
1925	599.16	598.98	598.89	598.97	599.13	599.34	599.57	599.68	599.75	599.67	599.42	599.16
1926	598.92	598.72	598.62	598.63	598.77	599.09	599.45	599.72	599.97	600.15	600.13	600.04
1927	599.87	599.72	599.76	599.98	600.41	600.77	600.98	601.02	600.89	600.76	600.54	600.30
1928	600.11	599.93	599.84	599.99	600.31	600.68	600.99	601.19	601.32	601.42	601.31	600.97
1929	600.70	600.54	600.50	600.59	600.71	600.81	601.00	601.10	601.12	601.15	601.06	600.85
1930	600.59	600.42	600.27	600.22	600.42	600.77	601.07	601.09	600.99	600.89	600.71	600.46
1931	600.18	599.89	599.62	599.54	599.68	599.89	600.07	600.11	600.13	600.21	600.25	600.16
1932	599.95	599.79	599.63	599.61	599.87	600.08	600.24	600.45	600.35	600.10	599.95	599.79
1933	599.59	599.45	599.34	599.43	599.84	600.14	600.25	600.26	600.26	600.24	600.08	599.85

A.F. 1

TABLE F-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	599.66	599.52	599.41	599.47	599.74	599.98	600.07	600.10	600.23	600.31	600.25	600.11
1935	599.87	599.65	599.54	599.68	599.87	600.12	600.42	600.51	600.40	600.33	600.20	599.96
1936	599.77	599.63	599.62	599.75	600.13	600.44	600.40	600.35	600.31	600.13	599.92	599.75
1937	599.62	599.61	599.58	599.71	600.11	600.30	600.42	600.57	600.49	600.34	600.21	599.99
1938	599.76	599.60	599.56	599.87	600.29	600.62	600.82	600.84	600.82	600.69	600.54	600.35
1939	600.18	600.05	599.97	600.06	600.40	600.85	601.10	601.15	601.07	600.82	600.48	600.13
1940	599.85	599.62	599.41	599.34	599.65	600.14	600.40	600.39	600.28	600.15	600.05	599.94
1941	599.72	599.51	599.33	599.51	599.89	600.12	600.28	600.33	600.52	600.70	600.54	600.29
1942	600.06	599.84	599.74	599.85	600.19	600.44	600.55	600.66	600.67	600.67	600.64	600.42
1943	600.15	599.96	599.86	599.91	600.27	600.88	601.23	601.28	601.20	601.01	600.81	600.49
1944	600.16	599.90	599.73	599.76	600.10	600.63	601.03	601.22	601.25	601.02	600.75	600.49
1945	600.19	600.06	600.15	600.43	600.65	600.76	600.86	600.97	601.00	600.85	600.70	600.53
1946	600.32	600.18	600.18	600.29	600.42	600.62	600.77	600.77	600.80	600.85	600.71	600.45
1947	600.15	599.88	599.68	599.79	600.19	600.72	601.03	601.04	601.05	600.91	600.69	600.42
1948	600.13	599.87	599.72	600.00	600.32	600.36	600.45	600.59	600.56	600.34	600.24	600.13
1949	599.92	599.73	599.57	599.59	599.84	600.16	600.47	600.55	600.41	600.35	600.22	599.94
1950	599.74	599.56	599.45	599.57	600.11	600.72	601.03	601.17	601.14	601.05	600.97	600.74
1951	600.42	600.28	600.28	600.51	600.89	601.17	601.31	601.38	601.49	601.48	601.30	601.08
1952	600.89	600.67	600.49	600.62	600.81	600.98	601.34	601.55	601.44	601.06	600.75	600.58
1953	600.39	600.27	600.24	600.42	600.82	601.26	601.53	601.61	601.50	601.18	600.87	600.63
1954	600.42	600.27	600.13	600.29	600.79	601.20	601.30	601.18	601.07	600.96	600.83	600.60
1955	600.26	600.04	599.94	600.12	600.42	600.55	600.67	600.81	600.79	600.72	600.66	600.44
1956	600.17	599.92	599.65	599.59	599.87	600.18	600.41	600.58	600.56	600.45	600.29	600.13
1957	599.88	599.67	599.63	599.82	600.08	600.28	600.47	600.48	600.44	600.31	600.19	600.07
1958	599.83	599.63	599.46	599.44	599.53	599.70	599.98	600.16	600.24	600.17	600.06	599.88
1959	599.59	599.37	599.23	599.26	599.59	599.96	600.09	600.32	600.60	600.60	600.34	600.02
1960	599.82	599.60	599.39	599.56	600.11	600.47	600.61	600.69	600.68	600.57	600.50	600.30
1961	599.97	599.80	599.77	599.85	600.06	600.24	600.31	600.29	600.30	600.36	600.28	600.10
1962	599.83	599.63	599.56	599.56	599.82	600.08	600.15	600.25	600.34	600.23	599.98	599.71
1963	599.51	599.37	599.32	599.49	599.69	599.94	600.12	600.13	600.11	599.98	599.83	599.58
1964	599.32	599.12	598.90	599.03	599.51	599.92	600.04	600.11	600.20	600.11	599.89	599.68
1965	599.43	599.23	599.12	599.21	599.60	599.94	600.06	600.18	600.31	600.34	600.29	600.20
1966	600.00	599.79	599.74	599.88	600.12	600.31	600.37	600.50	600.45	600.30	600.16	599.94
1967	599.78	599.65	599.56	599.80	600.09	600.27	600.48	600.56	600.49	600.39	600.31	600.09

A.F. 2

TABLE F-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	599.84	599.60	599.51	599.78	600.13	600.49	600.97	601.26	601.42	601.48	601.24	600.94
1969	600.83	600.70	600.49	600.57	600.83	600.95	601.01	601.09	601.03	600.84	600.69	600.46
1970	600.23	600.07	599.92	600.01	600.46	600.81	600.98	601.03	600.96	601.01	601.04	600.92
1971	600.65	600.50	600.48	600.59	600.95	601.23	601.31	601.27	601.19	601.20	601.14	600.91
1972	600.69	600.51	600.42	600.54	600.81	601.01	601.17	601.45	601.58	601.40	601.15	600.95
1973	600.70	600.48	600.49	600.66	600.91	601.16	601.31	601.43	601.41	601.28	601.14	600.92
1974	600.71	600.53	600.37	600.48	600.78	601.06	601.30	601.44	601.41	601.28	601.22	601.08
1975	600.90	600.77	600.61	600.56	600.75	601.00	601.12	601.07	601.02	600.93	600.93	600.89
1976	600.64	600.45	600.43	600.67	600.84	600.92	601.00	600.91	600.69	600.42	600.13	599.81

TABLE F-2

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	577.44	577.46	577.56	577.70	577.94	578.11	578.37	578.61	578.65	578.62	578.57	578.34
1901	578.06	577.94	578.10	578.48	578.77	578.94	579.08	579.14	578.92	578.63	578.35	578.09
1902	577.92	577.78	577.84	578.02	578.25	578.55	578.86	578.88	578.66	578.38	578.16	577.95
1903	577.76	577.81	578.04	578.30	578.54	578.73	578.82	578.85	578.88	578.80	578.51	578.22
1904	578.03	577.99	578.23	578.65	579.10	579.41	579.47	579.38	579.23	579.04	578.77	578.41
1905	578.17	578.09	578.24	578.45	578.73	579.12	579.35	579.37	579.25	579.01	578.78	578.59
1906	578.52	578.60	578.69	578.86	579.07	579.23	579.28	579.12	578.88	578.65	578.48	578.34
1907	578.31	578.35	578.41	578.58	578.82	579.08	579.22	579.17	579.07	578.90	578.65	578.45
1908	578.27	578.24	578.40	578.68	579.11	579.43	579.54	579.42	579.05	578.66	578.21	577.82
1909	577.62	577.63	577.72	578.02	578.52	578.83	578.91	578.80	578.60	578.24	577.95	577.89
1910	577.87	577.85	577.87	578.11	578.37	578.45	578.40	578.27	578.11	577.90	577.66	577.35
1911	577.16	577.17	577.16	577.30	577.62	577.84	577.83	577.70	577.62	577.59	577.55	577.48
1912	577.40	577.36	577.33	577.49	578.07	578.52	578.62	578.71	578.73	578.62	578.48	578.32
1913	578.14	578.02	578.13	578.56	579.02	579.26	579.31	579.24	579.01	578.78	578.70	578.50
1914	578.28	578.22	578.24	578.37	578.57	578.83	578.96	578.89	578.71	578.46	578.12	577.75
1915	577.60	577.65	577.65	577.63	577.74	577.92	578.06	578.11	578.13	577.98	577.82	577.72
1916	577.67	577.74	577.88	578.32	578.90	579.39	579.63	579.52	579.30	579.14	579.01	578.91
1917	578.82	578.70	578.71	578.95	579.24	579.62	579.99	579.96	579.67	579.34	579.04	578.80
1918	578.68	578.77	579.01	579.29	579.65	579.85	579.81	579.68	579.38	579.10	578.97	578.93
1919	578.84	578.66	578.73	579.05	579.42	579.58	579.51	579.31	579.01	578.80	578.61	578.40
1920	578.23	578.13	578.31	578.69	578.90	579.05	579.19	579.18	579.08	578.85	578.51	578.25
1921	578.12	578.02	578.10	578.51	578.80	578.84	578.77	578.63	578.50	578.26	577.96	577.82
1922	577.70	577.66	577.83	578.28	578.74	578.94	579.08	578.98	578.72	578.36	577.99	577.69
1923	577.42	577.26	577.29	577.56	577.93	578.19	578.23	578.11	577.97	577.78	577.46	577.19
1924	576.99	576.91	577.03	577.25	577.56	577.80	577.92	578.02	577.95	577.62	577.24	576.91
1925	576.63	576.54	576.64	576.75	576.75	576.79	576.87	576.72	576.45	576.17	575.93	575.74
1926	575.63	575.61	575.68	575.94	576.28	576.59	576.77	576.76	576.70	576.62	576.66	576.69
1927	576.63	576.66	576.83	577.08	577.45	577.81	577.96	577.90	577.74	577.63	577.55	577.48
1928	577.37	577.36	577.50	577.88	578.32	578.63	578.86	578.96	578.92	578.97	579.10	579.08
1929	579.05	579.01	579.15	579.69	580.34	580.69	580.71	580.52	580.16	579.76	579.40	579.06
1930	578.86	578.91	578.99	579.07	579.26	579.48	579.60	579.45	579.09	578.67	578.28	577.95
1931	577.67	577.47	577.46	577.52	577.61	577.72	577.70	577.46	577.32	577.19	577.07	576.94
1932	576.89	576.98	576.93	576.99	577.22	577.38	577.41	577.36	577.16	576.91	576.68	576.53
1933	576.46	576.40	576.36	576.60	577.14	577.49	577.52	577.32	577.02	576.76	576.53	576.36

TABLE F-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	576.32	576.24	576.19	576.42	576.66	576.80	576.83	576.65	576.56	576.47	576.40	576.42
1935	576.36	576.36	576.52	576.72	576.85	577.05	577.22	577.16	576.99	576.75	576.60	576.49
1936	576.38	576.41	576.51	576.69	576.96	577.17	577.15	577.08	577.03	576.92	576.62	576.35
1937	576.27	576.29	576.27	576.42	576.80	577.06	577.17	577.15	577.05	576.87	576.72	576.54
1938	576.45	576.65	577.04	577.44	577.75	578.03	578.17	578.17	578.08	577.83	577.52	577.29
1939	577.13	577.12	577.21	577.45	577.79	578.10	578.26	578.26	578.13	577.86	577.58	577.29
1940	577.04	576.89	576.78	576.82	577.10	577.45	577.64	577.69	577.64	577.40	577.17	577.08
1941	577.03	576.97	576.88	576.99	577.24	577.33	577.34	577.21	577.12	577.25	577.41	577.38
1942	577.27	577.24	577.42	577.70	578.02	578.36	578.47	578.31	578.11	577.94	577.79	577.68
1943	577.61	577.67	577.87	578.18	578.58	579.12	579.47	579.50	579.31	578.97	578.73	578.44
1944	578.18	578.10	578.10	578.20	578.36	578.60	578.72	578.60	578.49	578.32	578.08	577.84
1945	577.61	577.51	577.60	577.84	578.20	578.63	578.86	578.80	578.69	578.57	578.40	578.22
1946	578.13	578.16	578.33	578.50	578.60	578.78	578.79	578.59	578.31	578.04	577.76	577.52
1947	577.39	577.33	577.30	577.66	578.32	578.80	579.03	579.02	578.87	578.69	578.42	578.04
1948	577.70	577.57	577.75	578.11	578.41	578.58	578.58	578.40	578.06	577.58	577.30	577.18
1949	577.03	577.02	577.02	577.16	577.35	577.57	577.72	577.59	577.29	576.97	576.70	576.49
1950	576.49	576.60	576.77	577.16	577.54	577.82	578.07	578.13	578.06	577.90	577.72	577.59
1951	577.56	577.66	577.86	578.39	578.89	579.08	579.30	579.44	579.35	579.32	579.37	579.33
1952	579.33	579.33	579.35	579.68	580.03	580.20	580.38	580.47	580.26	579.72	579.26	579.05
1953	578.85	578.70	578.75	578.95	579.18	579.44	579.60	579.58	579.37	579.05	578.72	578.38
1954	578.10	578.02	578.11	578.38	578.74	579.10	579.35	579.30	579.17	579.24	579.25	579.02
1955	578.81	578.67	578.63	578.84	579.08	579.14	579.05	578.81	578.40	578.07	577.89	577.62
1956	577.44	577.39	577.44	577.65	578.03	578.31	578.43	578.49	578.32	577.95	577.63	577.37
1957	577.16	577.01	576.97	577.09	577.39	577.72	577.95	577.92	577.70	577.48	577.30	577.22
1958	577.18	577.10	577.03	577.06	577.08	577.09	577.15	577.10	576.95	576.74	576.44	576.13
1959	575.97	575.98	576.10	576.51	576.99	577.17	577.18	577.23	577.23	577.18	577.20	577.21
1960	577.22	577.24	577.24	577.53	578.24	578.78	578.99	579.00	578.80	578.43	578.14	577.86
1961	577.52	577.35	577.38	577.55	577.70	577.84	577.94	577.89	577.82	577.71	577.47	577.23
1962	577.08	577.08	577.16	577.35	577.60	577.76	577.74	577.63	577.43	577.16	576.82	576.46
1963	576.19	576.06	576.14	576.37	576.62	576.78	576.83	576.82	576.67	576.42	576.12	575.79
1964	575.56	575.43	575.36	575.52	575.82	576.00	576.09	576.10	576.02	575.84	575.64	575.50
1965	575.42	575.45	575.56	575.92	576.39	576.62	576.63	576.61	576.72	576.80	576.76	576.79
1966	576.77	576.72	576.90	577.17	577.33	577.44	577.42	577.27	577.01	576.69	576.61	576.72
1967	576.74	576.71	576.75	577.15	577.60	577.92	578.11	578.00	577.79	577.57	577.44	577.43

A.F. 5

TABLE F-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	577.40	577.33	577.34	577.50	577.75	578.01	578.21	578.28	578.35	578.23	578.03	577.94
1969	577.92	577.90	577.87	578.10	578.53	578.96	579.27	579.25	578.92	578.63	578.46	578.23
1970	578.05	577.94	577.87	578.03	578.37	578.68	578.93	578.92	578.87	578.81	578.63	578.54
1971	578.45	578.42	578.56	578.86	579.17	579.35	579.46	579.43	579.27	579.05	578.82	578.73
1972	578.63	578.45	578.46	578.75	579.13	579.35	579.48	579.66	579.76	579.64	579.48	579.37
1973	579.34	579.29	579.46	579.83	580.26	580.66	580.75	580.71	580.51	580.20	579.90	579.61
1974	579.52	579.50	579.50	579.77	580.17	580.49	580.64	580.57	580.33	580.01	579.71	579.46
1975	579.27	579.22	579.31	579.51	579.82	580.11	580.20	580.10	579.87	579.47	579.16	579.03
1976	578.87	578.87	579.24	579.70	580.03	580.23	580.24	580.01	579.56	579.05	578.62	578.21

TABLE F-3

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	572.32	572.34	572.72	572.94	573.11	573.18	573.24	573.33	573.16	573.00	572.89	572.73
1901	572.21	571.51	571.82	571.27	572.42	573.12	573.36	573.35	573.20	572.94	572.83	572.96
1902	571.97	571.81	572.65	573.04	573.38	573.71	574.31	574.25	573.92	573.80	573.47	573.40
1903	573.40	573.07	573.41	573.91	574.00	574.01	574.02	573.81	573.71	573.44	573.14	573.31
1904	572.20	572.40	573.27	573.99	574.23	574.37	574.37	574.17	573.93	573.64	573.34	573.20
1905	572.13	571.87	572.27	572.94	573.48	573.97	574.14	574.06	573.83	573.60	573.32	573.21
1906	573.22	572.47	572.53	573.23	573.64	573.86	573.92	573.79	573.58	573.47	573.44	573.34
1907	573.52	573.16	573.17	573.81	574.05	574.25	574.30	574.13	573.89	573.75	573.47	573.34
1908	572.92	572.52	573.49	574.18	574.52	574.58	574.46	574.30	573.81	573.52	573.05	572.80
1909	572.75	572.12	572.38	573.41	574.08	574.34	574.28	574.10	573.79	573.40	573.25	573.80
1910	572.77	572.23	573.02	573.34	573.57	573.60	573.52	573.45	573.29	573.17	572.92	572.65
1911	571.69	571.62	572.28	572.87	573.07	573.21	573.11	572.98	572.89	572.88	572.77	572.87
1912	573.01	572.93	573.09	573.38	573.52	573.66	573.64	573.60	573.61	573.41	573.26	572.98
1913	573.25	572.72	573.06	574.45	574.58	574.46	574.32	574.09	573.73	573.48	573.39	573.19
1914	572.57	572.47	572.27	573.07	573.79	574.02	574.04	574.00	573.84	573.57	573.23	573.39
1915	572.12	572.59	572.47	572.85	573.14	573.26	573.46	573.66	573.61	573.39	573.10	573.00
1916	573.49	573.11	572.66	573.56	574.17	574.44	574.50	574.29	573.90	573.63	573.42	573.68
1917	573.64	573.25	573.20	573.88	574.27	574.61	574.91	574.79	574.40	574.16	574.04	573.66
1918	572.33	572.67	572.82	572.99	573.84	574.06	574.11	574.00	573.85	573.64	573.58	573.48
1919	573.79	573.18	573.50	574.03	574.55	574.63	574.37	574.20	573.94	573.74	573.57	573.17
1920	571.77	571.85	572.46	573.31	573.79	574.06	574.23	574.18	573.90	573.61	573.33	573.14
1921	573.19	572.00	573.15	573.79	574.12	574.09	573.98	573.77	573.58	573.40	573.18	573.23
1922	572.89	572.17	572.87	573.75	574.05	574.31	574.29	574.09	573.78	573.34	572.93	572.71
1923	572.30	572.00	572.27	572.79	573.22	573.52	573.52	573.31	573.14	572.92	572.67	572.56
1924	572.63	571.82	572.17	572.81	573.29	573.51	573.61	573.50	573.31	573.09	572.66	572.18
1925	571.74	571.40	572.09	572.40	572.37	572.45	572.44	572.34	572.16	571.87	571.73	571.41
1926	570.54	570.31	570.76	571.66	572.09	572.18	572.28	572.34	572.41	572.60	572.60	572.52
1927	571.36	570.96	571.64	572.39	572.70	572.95	573.05	572.88	572.64	572.44	572.39	572.63
1928	572.48	571.93	571.74	572.62	573.09	573.43	573.70	573.70	573.47	573.39	573.38	573.44
1929	573.67	574.03	573.93	574.82	575.39	575.46	575.43	575.07	574.66	574.24	574.04	573.73
1930	573.91	573.70	574.25	574.53	574.61	574.63	574.66	574.40	574.09	573.82	573.36	573.15
1931	572.62	571.50	571.43	572.68	572.93	573.11	573.15	572.94	572.76	572.60	572.42	572.41
1932	572.69	573.01	572.30	572.82	573.18	573.18	573.13	572.97	572.71	572.35	572.22	572.73
1933	572.51	571.99	572.31	572.91	573.21	573.38	573.18	572.90	572.52	572.24	571.93	572.09

A.F.7

TABLE F-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	571.08	571.06	571.06	572.00	572.10	572.15	572.17	572.01	571.91	571.71	571.53	571.70
1935	571.38	571.23	571.56	571.90	572.21	572.29	572.43	572.35	572.02	571.73	571.63	571.41
1936	570.69	570.88	571.48	572.05	572.32	572.41	572.30	572.18	572.16	572.00	571.82	571.71
1937	572.05	571.89	572.14	572.65	573.02	573.12	573.31	573.16	572.77	572.45	572.20	572.42
1938	571.73	572.21	572.29	573.12	573.22	573.29	573.31	573.23	572.99	572.68	572.36	572.17
1939	571.98	571.24	571.57	572.62	572.93	573.11	573.13	573.02	572.82	572.48	572.24	572.02
1940	571.25	570.92	571.26	572.31	572.68	573.09	573.20	573.11	573.06	572.81	572.62	572.67
1941	572.25	571.87	571.81	572.29	572.60	572.67	572.67	572.51	572.35	572.28	572.28	572.09
1942	571.66	570.50	571.59	572.75	573.04	573.37	573.39	573.26	573.04	572.75	572.69	572.77
1943	572.25	571.95	572.68	573.19	574.05	574.46	574.64	574.44	574.10	573.74	573.47	573.10
1944	571.75	571.79	572.14	573.18	573.58	573.81	573.85	573.64	573.50	573.30	573.08	572.98
1945	572.38	572.15	573.02	573.49	573.89	574.17	574.25	573.99	573.75	573.82	573.45	573.57
1946	572.77	572.17	573.04	573.26	573.40	573.80	573.82	573.57	573.27	573.05	572.84	572.66
1947	572.19	572.10	572.56	573.78	574.31	574.82	574.73	574.51	574.18	573.73	573.36	573.08
1948	572.82	572.54	573.09	573.59	574.01	574.03	574.05	573.83	573.49	572.98	572.76	572.69
1949	572.90	573.01	572.66	573.17	573.27	573.32	573.31	573.09	572.77	572.51	572.17	572.19
1950	572.66	572.74	572.92	573.83	573.85	573.80	573.69	573.43	573.28	573.04	572.81	573.05
1951	572.68	572.84	573.49	574.00	574.26	574.34	574.34	574.22	573.95	573.75	573.78	574.20
1952	574.43	574.43	574.62	575.00	575.10	575.12	575.07	574.94	574.74	574.14	573.71	573.62
1953	573.64	573.60	573.93	574.12	574.35	574.62	574.55	574.40	574.13	573.79	573.49	573.20
1954	572.43	572.43	573.48	574.12	574.39	574.49	574.47	574.29	574.15	574.32	574.32	574.08
1955	574.04	573.60	574.17	574.34	574.40	574.30	574.18	573.97	573.73	573.48	573.22	573.16
1956	571.97	571.45	572.63	573.41	574.27	574.27	574.25	574.28	574.04	573.56	573.12	572.92
1957	572.14	572.21	572.75	573.25	573.55	573.63	573.95	573.69	573.42	573.05	572.81	572.96
1958	572.03	571.58	572.30	572.26	572.70	572.80	572.98	572.92	572.73	572.45	572.06	572.04
1959	571.08	571.32	572.32	572.82	573.11	573.10	572.95	572.84	572.65	572.62	572.55	572.66
1960	572.53	572.08	572.41	573.15	573.46	573.86	573.87	573.82	573.55	573.11	572.75	572.72
1961	572.14	572.15	572.59	572.97	573.39	573.43	573.46	573.45	573.32	573.00	572.71	572.57
1962	572.29	571.54	572.60	572.89	573.01	573.16	573.08	572.96	572.71	572.52	572.33	572.25
1963	571.65	571.29	571.86	572.31	572.46	572.52	572.42	572.32	572.11	571.81	571.53	571.45
1964	570.70	570.56	571.14	571.68	571.95	571.99	571.96	571.87	571.69	571.33	571.11	571.10
1965	570.69	570.91	571.67	572.13	572.31	572.36	572.31	572.20	572.16	572.06	571.91	571.93
1966	571.83	571.63	572.06	572.44	572.62	572.71	572.61	572.45	572.17	571.76	571.84	572.35
1967	572.52	572.11	572.58	573.09	573.28	573.43	573.49	573.24	572.89	572.73	572.59	572.83

TABLE F-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	572.62	572.86	572.92	573.06	573.15	573.41	573.48	573.41	573.24	572.99	572.80	572.93
1969	573.00	573.07	573.02	573.53	573.96	574.28	574.48	574.34	573.87	573.48	573.28	573.05
1970	571.97	572.15	572.96	573.41	573.71	573.96	574.13	574.06	573.91	573.82	573.62	573.56
1971	573.46	573.29	573.70	573.91	573.96	574.13	574.06	573.96	573.90	573.84	573.53	573.46
1972	573.66	573.46	573.63	573.93	574.30	574.40	574.53	574.51	574.43	574.34	574.39	574.49
1973	574.58	574.42	574.89	575.18	575.34	575.68	575.63	575.44	575.12	574.77	574.54	574.50
1974	574.42	574.77	575.03	575.27	575.44	575.50	575.44	575.21	574.85	574.53	574.33	574.30
1975	574.45	574.46	574.60	574.85	574.88	575.07	574.99	574.89	574.89	574.55	574.25	574.32
1976	574.23	574.18	575.15	575.27	575.37	575.29	575.32	575.01	574.52	574.15	573.77	573.63

TABLE F-4

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	569.49	569.39	569.63	569.91	570.03	569.99	569.91	569.87	569.58	569.34	569.15	569.17
1901	569.06	568.70	568.69	569.10	569.08	569.45	569.60	569.49	569.42	569.20	569.21	569.33
1902	569.41	569.08	569.40	570.00	570.36	570.64	571.27	571.33	570.94	570.94	570.59	570.27
1903	570.14	570.12	570.48	571.07	570.99	570.89	570.79	570.53	570.36	570.01	569.57	569.31
1904	569.16	569.25	569.77	570.82	571.02	571.19	571.10	570.79	570.53	570.16	569.80	569.51
1905	569.24	568.93	568.86	569.52	570.09	570.60	570.67	570.53	570.30	570.01	569.69	569.68
1906	569.74	569.74	569.50	569.88	570.10	570.27	570.34	570.31	570.14	570.14	570.18	570.57
1907	570.91	570.60	570.46	570.79	570.92	571.26	571.18	570.85	570.53	570.40	570.12	569.98
1908	570.23	570.04	570.62	571.30	571.51	571.43	571.16	570.93	570.45	570.10	569.70	569.56
1909	569.43	569.76	570.10	570.41	571.23	571.57	571.42	571.21	570.82	570.29	570.14	569.92
1910	569.56	569.31	569.63	569.96	570.38	570.48	570.46	570.44	570.28	570.17	569.87	569.76
1911	569.53	569.51	569.49	569.97	570.23	570.32	570.18	570.03	569.94	569.91	569.68	569.98
1912	569.83	569.40	569.34	570.20	570.46	570.51	570.36	570.28	570.26	569.97	569.76	569.42
1913	570.05	570.30	570.24	571.71	571.62	571.45	571.19	570.84	570.35	570.01	569.86	569.84
1914	569.74	569.47	569.25	569.91	570.70	571.01	570.97	570.84	570.73	570.49	570.04	569.89
1915	569.72	569.86	569.95	569.95	570.15	570.33	570.53	570.80	570.75	570.56	570.15	570.05
1916	570.42	570.52	570.24	570.67	571.02	571.39	571.32	570.90	570.41	570.00	569.76	569.67
1917	569.74	569.45	569.60	570.54	570.87	571.39	571.72	571.43	571.12	570.76	570.78	570.41
1918	569.83	569.59	570.08	569.94	569.85	570.20	570.27	570.23	570.12	570.06	569.96	570.00
1919	569.96	569.96	570.18	570.74	571.31	571.42	571.13	570.84	570.59	570.37	570.21	570.01
1920	569.60	569.11	569.21	570.07	570.73	570.93	571.13	571.00	570.60	570.18	569.99	570.05
1921	570.09	569.93	570.11	570.88	571.25	571.14	570.99	570.73	570.52	570.23	570.22	570.33
1922	570.10	569.81	569.97	570.94	571.33	571.45	571.33	571.00	570.66	570.10	569.65	569.38
1923	569.44	569.20	569.40	569.93	570.32	570.59	570.57	570.30	570.09	569.80	569.57	569.83
1924	570.01	569.97	569.80	570.34	570.71	570.88	570.99	570.71	570.45	570.25	569.73	569.53
1925	569.36	569.20	569.58	569.91	569.89	569.74	569.69	569.64	569.49	569.17	569.05	569.01
1926	568.63	568.40	568.43	569.28	569.48	569.58	569.58	569.68	569.77	570.07	569.91	569.71
1927	569.23	568.92	569.01	569.49	569.71	569.92	569.88	569.73	569.39	569.08	568.93	569.58
1928	569.71	569.57	569.27	569.56	569.72	570.09	570.42	570.34	569.92	569.67	569.64	569.77
1929	569.86	569.93	570.39	571.34	572.00	571.96	571.90	571.53	571.12	570.70	570.59	570.58
1930	571.19	570.97	571.24	571.48	571.52	571.54	571.47	571.18	570.92	570.62	570.31	570.21
1931	570.04	569.72	569.40	569.78	570.10	570.28	570.32	570.15	569.88	569.65	569.46	569.50
1932	570.06	570.45	570.33	570.38	570.61	570.62	570.51	570.27	569.95	569.52	569.44	569.35
1933	569.67	569.63	569.75	570.32	570.71	570.70	570.46	570.17	569.77	569.45	569.05	569.02

A.F.

TABLE F-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	568.89	568.52	568.44	568.97	569.22	569.25	569.25	569.15	569.01	568.73	568.46	568.46
1935	568.54	568.38	568.66	568.91	569.17	569.41	569.44	569.31	568.81	568.49	568.50	568.53
1936	568.18	567.84	568.42	569.27	569.52	569.41	569.27	569.09	568.98	568.92	568.78	568.63
1937	569.26	569.88	569.77	570.10	570.66	570.79	571.05	570.82	570.25	569.73	569.42	569.22
1938	569.24	569.52	569.99	570.48	570.37	570.36	570.26	570.13	569.74	569.35	569.00	568.83
1939	568.72	568.63	568.92	569.44	569.86	569.98	569.90	569.74	569.36	568.99	568.74	568.67
1940	568.54	568.42	568.68	569.46	569.96	570.34	570.46	570.30	570.20	569.92	569.62	569.75
1941	570.07	569.67	569.47	569.68	569.72	569.77	569.75	569.60	569.36	569.14	568.96	568.80
1942	568.60	568.60	568.74	569.60	569.85	570.15	570.10	570.03	569.72	569.50	569.39	569.39
1943	569.46	569.39	569.54	569.99	570.83	571.43	571.44	571.19	570.74	570.32	570.06	569.75
1944	569.27	569.05	569.18	569.97	570.50	570.70	570.69	570.53	570.34	570.13	569.93	569.81
1945	569.67	569.41	570.15	570.76	570.94	571.24	571.22	570.90	570.51	570.64	570.30	570.05
1946	570.01	569.52	569.75	569.93	570.04	570.53	570.61	570.36	570.10	569.90	569.78	569.65
1947	569.70	569.74	569.67	570.83	571.62	572.24	571.95	571.55	571.13	570.53	570.11	569.90
1948	569.76	569.43	569.89	570.64	570.99	571.10	571.12	570.89	570.57	570.11	569.96	569.87
1949	570.08	570.42	570.60	570.71	570.78	570.75	570.63	570.34	569.97	569.73	569.38	569.35
1950	570.16	570.79	570.81	571.52	571.56	571.31	570.92	570.49	570.19	569.88	569.68	570.03
1951	570.04	570.05	570.62	571.06	571.27	571.23	571.08	570.76	570.38	570.08	570.04	570.21
1952	570.70	571.34	571.48	571.86	571.91	571.85	571.59	571.30	571.04	570.48	570.04	570.11
1953	570.24	570.39	570.78	571.05	571.27	571.49	571.22	571.06	570.77	570.45	570.12	569.98
1954	569.94	569.93	570.48	571.34	571.64	571.52	571.34	571.15	570.91	571.12	571.18	570.92
1955	571.08	570.76	571.23	571.45	571.42	571.19	570.99	570.94	570.63	570.48	570.27	570.24
1956	569.90	569.40	570.03	570.64	571.48	571.68	571.60	571.51	571.22	570.70	570.25	570.17
1957	570.03	569.97	570.15	570.80	571.12	571.16	571.38	571.00	570.65	570.24	569.96	570.11
1958	570.20	569.66	569.69	569.89	570.02	570.13	570.35	570.33	570.08	569.70	569.40	569.17
1959	569.04	569.40	569.79	570.35	570.68	570.62	570.37	570.11	569.78	569.70	569.50	569.55
1960	569.77	569.76	569.64	570.06	570.35	570.61	570.63	570.50	570.16	569.64	569.23	568.94
1961	568.77	568.70	569.36	569.90	570.62	570.66	570.65	570.66	570.48	570.03	569.68	569.59
1962	569.35	569.31	569.63	570.08	570.18	570.26	570.17	570.03	569.73	569.60	569.44	569.33
1963	569.05	568.73	569.02	569.73	569.88	569.85	569.65	569.53	569.23	568.88	568.64	568.45
1964	568.36	568.30	568.60	569.22	569.55	569.52	569.39	569.19	568.95	568.49	568.24	568.20
1965	568.43	568.60	569.15	569.51	569.77	569.75	569.60	569.44	569.31	569.01	568.75	568.72
1966	568.82	568.75	569.04	569.30	569.59	569.64	569.53	569.33	569.00	568.56	568.72	569.37
1967	569.49	569.61	569.72	570.31	570.59	570.54	570.51	570.17	569.72	569.48	569.37	569.53

A.F. 11

TABLE F-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	569.64	569.95	569.89	570.20	570.20	570.40	570.46	570.29	569.98	569.58	569.38	569.57
1969	569.67	570.04	569.91	570.49	571.01	571.30	571.49	571.25	570.68	570.20	569.88	569.91
1970	569.42	569.41	569.74	570.37	570.79	571.03	571.15	571.04	570.82	570.65	570.39	570.35
1971	570.16	570.05	570.53	570.67	570.71	570.83	570.65	570.47	570.45	570.53	570.13	570.07
1972	570.15	570.03	570.40	570.85	571.27	571.34	571.42	571.22	571.05	570.92	571.04	571.29
1973	571.40	571.38	571.68	572.22	572.26	572.53	572.42	572.12	571.66	571.30	571.00	571.04
1974	571.18	571.54	572.01	572.32	572.39	572.41	572.19	571.82	571.38	570.95	570.85	571.02
1975	571.17	571.31	571.71	571.76	571.81	571.91	571.74	571.54	571.68	571.39	571.14	571.17
1976	571.03	571.14	572.36	572.45	572.43	572.23	572.14	571.84	571.34	571.05	570.68	570.45

A.F. 1 2

TABLE F-5

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.41	244.57	244.74	245.35	245.68	245.67	245.64	245.48	244.94	244.38	243.95	244.02
1901	243.76	243.60	243.40	244.67	245.34	245.58	245.43	245.10	244.69	243.98	243.34	243.30
1902	243.43	243.25	243.82	244.61	244.99	245.51	246.33	246.22	245.40	244.65	244.06	243.76
1903	243.66	243.90	244.75	245.79	245.79	245.61	245.75	245.58	245.03	244.40	243.77	243.38
1904	243.18	243.49	244.03	245.39	246.06	246.35	246.25	245.80	245.12	244.44	243.71	243.29
1905	243.35	243.15	243.29	244.38	245.04	245.60	245.88	245.68	245.05	244.31	243.74	243.63
1906	244.02	244.22	244.01	244.34	244.77	245.22	245.57	245.33	244.56	244.03	243.87	243.70
1907	244.34	244.48	244.21	244.77	245.24	245.64	245.84	245.66	245.03	244.57	244.20	243.90
1908	244.41	244.44	244.51	245.10	245.79	246.09	245.96	245.50	244.57	243.83	243.29	242.85
1909	242.61	242.75	243.18	244.03	245.32	245.59	245.42	245.11	244.50	243.87	243.52	243.51
1910	243.68	243.88	244.39	244.86	245.43	245.47	245.26	245.17	244.90	244.46	243.89	243.56
1911	243.34	243.38	243.51	244.17	244.99	245.46	245.59	245.31	244.99	244.73	244.45	244.40
1912	244.56	244.57	244.55	245.53	246.43	247.00	246.65	245.92	245.32	244.80	244.33	244.01
1913	244.58	245.09	244.94	246.00	246.23	246.22	245.88	245.40	244.76	244.20	243.89	243.65
1914	243.60	243.75	243.68	244.72	245.25	245.27	245.15	244.92	244.72	244.19	243.64	243.23
1915	243.12	243.46	243.83	244.14	244.66	245.00	245.19	245.59	245.38	244.78	244.00	243.59
1916	244.06	244.49	244.53	245.47	246.25	247.05	247.13	246.29	245.20	244.36	243.85	243.56
1917	243.60	243.67	244.01	245.12	245.34	245.76	246.14	245.75	245.00	244.36	244.10	243.77
1918	243.44	243.41	244.17	244.84	244.93	245.04	245.17	244.97	244.73	244.26	243.99	243.78
1919	244.05	244.11	244.18	244.74	245.66	246.25	245.94	245.28	244.50	243.93	243.62	243.29
1920	242.99	242.73	242.78	243.64	244.32	244.67	245.04	245.31	245.13	244.69	244.23	244.05
1921	244.22	244.25	244.37	244.70	244.91	245.17	245.18	244.82	244.47	244.11	243.84	243.78
1922	243.72	243.73	244.20	245.18	245.76	245.88	245.99	245.56	245.03	244.40	243.83	243.19
1923	243.15	242.97	243.16	243.98	244.75	245.52	245.75	245.56	245.29	244.88	244.57	244.59
1924	244.61	244.59	244.40	244.98	245.79	246.02	245.86	245.53	244.89	244.46	243.71	243.21
1925	242.86	242.83	243.68	244.31	244.53	244.66	244.62	244.44	244.13	243.74	243.69	243.71
1926	243.30	243.02	242.89	243.75	244.78	245.09	245.15	245.06	244.97	244.80	244.76	244.72
1927	244.62	244.54	244.67	244.95	245.01	245.45	245.60	245.39	244.82	244.36	244.05	244.53
1928	245.13	245.34	245.15	245.52	245.72	245.76	245.95	245.76	245.02	244.37	244.05	243.95
1929	244.17	244.52	244.67	245.77	246.64	246.74	246.53	245.99	245.22	244.55	244.07	243.74
1930	244.34	245.08	245.68	246.09	246.03	245.83	245.67	245.00	244.37	243.79	243.34	243.16
1931	242.98	242.81	242.83	243.39	244.06	244.73	244.82	244.58	244.20	243.81	243.52	243.37
1932	243.70	244.26	244.35	244.93	245.34	245.42	245.54	245.53	245.17	244.79	244.64	244.43
1933	244.48	244.43	244.50	245.47	246.10	246.20	246.08	245.75	245.37	244.79	244.26	244.06

TABLE F-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	243.99	243.77	243.61	244.24	244.82	244.96	245.01	244.64	244.29	243.99	243.56	243.23
1935	243.05	242.83	242.82	243.31	243.92	244.37	244.88	244.87	244.52	243.98	243.57	243.21
1936	242.77	242.24	242.55	244.14	244.60	244.82	244.70	244.20	243.83	243.52	243.35	242.98
1937	243.21	243.76	243.95	244.41	245.43	245.98	246.08	245.73	245.08	244.54	244.41	244.14
1938	243.93	244.27	244.59	245.22	245.55	245.63	245.63	245.59	245.05	244.55	243.85	243.50
1939	243.40	243.47	243.91	244.73	245.18	245.18	245.42	245.46	245.04	244.60	244.09	243.61
1940	243.12	242.61	242.37	243.19	244.35	245.07	245.32	245.05	244.62	244.31	244.00	244.02
1941	244.35	244.25	244.06	244.60	245.23	245.47	245.43	245.19	244.81	244.43	244.38	244.40
1942	244.48	244.51	244.89	245.81	246.05	246.18	245.91	245.60	245.04	244.48	244.11	243.85
1943	244.21	244.41	244.57	245.11	246.04	246.90	246.68	246.16	245.35	244.52	244.21	243.69
1944	243.43	243.42	243.53	244.28	245.18	245.41	245.31	244.87	244.48	244.03	243.55	243.37
1945	243.30	243.23	243.90	245.12	245.89	246.37	246.29	245.74	245.03	244.98	244.55	244.29
1946	244.47	244.56	244.69	244.56	244.52	245.00	245.17	244.82	244.24	243.95	243.81	243.52
1947	243.67	244.06	244.04	245.07	245.94	247.00	247.15	246.96	246.28	245.23	244.43	243.90
1948	243.77	243.70	244.14	245.15	245.53	245.52	245.18	244.76	244.20	243.68	243.50	243.32
1949	243.44	243.83	244.20	244.66	244.91	245.02	245.01	244.64	244.23	243.88	243.41	243.20
1950	243.73	244.25	244.40	245.09	245.67	245.72	245.71	245.44	244.95	244.35	244.00	244.02
1951	244.33	244.70	245.23	246.19	246.64	246.43	246.22	245.55	244.90	244.22	243.84	243.84
1952	244.36	245.16	245.50	246.31	246.62	246.72	246.29	245.65	244.97	244.30	243.70	243.68
1953	243.87	243.99	243.99	244.69	245.31	245.75	245.62	245.18	244.51	243.84	243.52	243.56
1954	243.42	243.59	244.37	245.08	245.82	245.72	245.40	244.91	244.60	244.43	244.39	244.29
1955	244.91	245.07	245.52	246.39	246.53	246.18	245.60	245.04	244.39	244.17	244.11	243.58
1956	243.37	243.28	243.61	244.41	245.49	245.76	245.45	245.03	244.70	244.05	243.54	243.42
1957	243.43	243.62	243.90	244.37	245.00	245.56	245.94	245.47	244.86	244.16	243.77	243.63
1958	243.81	243.78	244.00	244.73	245.43	245.79	245.85	245.72	245.52	245.08	244.58	244.16
1959	243.88	243.99	244.32	245.35	245.76	245.68	245.54	245.19	244.72	244.38	244.29	244.55
1960	244.96	245.26	245.25	246.04	246.85	246.98	246.52	245.86	245.04	244.28	243.76	243.31
1961	243.01	242.77	243.51	244.44	245.47	245.73	245.56	245.15	244.81	244.28	243.65	243.32
1962	243.00	242.83	242.95	243.87	244.64	244.92	244.84	244.78	244.37	244.20	243.93	243.81
1963	243.36	242.90	242.78	243.83	244.74	245.10	244.97	244.77	244.25	243.60	243.09	242.81
1964	242.34	242.05	242.04	242.84	243.66	244.04	244.06	243.75	243.29	242.55	241.89	241.48
1965	241.38	241.51	242.01	242.69	243.58	243.98	244.16	243.98	243.80	243.72	243.80	244.06
1966	244.15	244.11	244.48	244.74	244.89	245.25	245.27	245.03	244.77	244.19	243.65	243.75
1967	243.72	243.79	243.73	244.54	245.57	246.09	246.25	245.98	245.33	244.89	244.74	244.46

TABLE F-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.27	244.24	244.21	244.84	244.97	245.46	245.72	245.45	245.04	244.40	244.03	244.15
1969	244.23	244.46	244.30	244.96	245.63	246.06	245.89	245.43	244.67	244.04	243.81	243.76
1970	243.69	243.62	243.55	244.23	244.89	245.22	245.58	245.40	244.88	244.68	244.52	244.51
1971	244.62	244.66	245.04	245.66	246.21	246.04	245.77	245.36	245.06	244.54	244.02	243.87
1972	244.10	244.34	244.68	245.40	246.26	246.46	246.69	246.39	245.66	244.91	244.64	244.92
1973	245.59	246.13	246.47	247.38	247.50	247.35	246.74	245.90	245.07	244.46	244.05	244.08
1974	244.72	245.30	245.59	246.13	246.68	246.92	246.64	245.89	245.00	244.23	243.79	243.86
1975	244.01	244.45	244.97	245.52	245.80	245.83	245.49	245.08	244.65	244.45	244.04	243.93
1976	244.21	244.41	245.29	246.16	246.72	246.80	246.50	245.94	245.21	244.54	243.79	243.31

TABLE F-6

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.41	244.54	244.71	245.31	245.58	245.60	245.59	245.44	244.92	244.36	243.93	244.01
1901	243.75	243.57	243.39	244.70	245.36	245.60	245.45	245.11	244.70	243.98	243.34	243.31
1902	243.53	243.45	244.11	244.85	245.17	245.69	246.48	246.33	245.49	244.70	244.09	243.77
1903	243.66	243.90	244.75	245.77	245.71	245.52	245.69	245.54	245.01	244.39	243.77	243.40
1904	243.28	243.62	244.13	245.47	246.09	246.38	246.20	245.69	245.02	244.36	243.66	243.27
1905	243.43	243.26	243.41	244.51	245.14	245.69	245.95	245.75	245.10	244.36	243.77	243.64
1906	244.00	244.14	243.94	244.28	244.72	245.18	245.53	245.30	244.53	244.00	243.85	243.68
1907	244.30	244.33	244.09	244.68	245.17	245.59	245.80	245.63	245.01	244.55	244.18	243.86
1908	244.26	244.20	244.31	244.93	245.63	245.94	245.80	245.36	244.46	243.75	243.25	242.82
1909	242.67	242.90	243.39	244.26	245.51	245.75	245.56	245.22	244.59	243.95	243.57	243.57
1910	243.77	243.95	244.45	244.90	245.47	245.50	245.29	245.20	244.92	244.48	243.90	243.58
1911	243.46	243.60	243.82	244.54	245.36	245.83	245.96	245.68	245.36	245.09	244.77	244.65
1912	244.69	244.61	244.59	245.56	246.36	246.87	246.39	245.71	245.15	244.67	244.23	243.89
1913	244.33	244.67	244.58	245.70	245.87	245.87	245.59	245.17	244.59	244.07	243.79	243.61
1914	243.59	243.75	243.68	244.72	245.25	245.27	245.15	244.92	244.72	244.19	243.64	243.24
1915	243.21	243.64	244.01	244.28	244.79	245.13	245.32	245.72	245.44	244.82	244.04	243.63
1916	244.08	244.44	244.48	245.40	246.17	246.97	246.93	246.00	244.96	244.19	243.72	243.51
1917	243.59	243.67	244.01	245.12	245.34	245.76	246.10	245.69	244.95	244.32	244.07	243.76
1918	243.44	243.42	244.17	244.84	244.93	245.04	245.17	244.97	244.73	244.26	243.99	243.76
1919	243.93	243.95	244.06	244.65	245.59	246.19	245.82	245.19	244.43	243.88	243.59	243.29
1920	243.07	242.89	243.03	243.95	244.63	244.98	245.35	245.60	245.35	244.86	244.36	244.12
1921	244.14	244.10	244.25	244.59	244.83	245.12	245.14	244.79	244.44	244.08	243.81	243.76
1922	243.77	243.88	244.37	245.31	245.87	245.95	246.05	245.59	245.04	244.41	243.64	243.21
1923	243.27	243.19	243.48	244.34	245.11	245.88	246.11	245.92	245.59	245.15	244.82	244.81
1924	244.75	244.65	244.45	245.02	245.83	246.04	245.88	245.54	244.90	244.47	243.72	243.23
1925	242.97	243.03	243.95	244.54	244.71	244.83	244.79	244.61	244.30	243.91	243.86	243.82
1926	243.41	243.22	243.20	244.12	245.11	245.41	245.47	245.38	245.29	245.06	244.95	244.81
1927	244.49	244.32	244.44	244.73	244.84	245.32	245.51	245.31	244.75	244.31	244.00	244.42
1928	244.77	244.78	244.58	244.95	245.20	245.36	245.65	245.55	244.86	244.25	243.95	243.83
1929	243.94	244.23	244.44	245.57	246.42	246.51	246.19	245.63	244.93	244.32	243.89	243.67
1930	244.28	244.85	245.44	245.79	245.68	245.55	245.45	244.83	244.24	243.69	243.28	243.12
1931	243.04	242.98	243.10	243.72	244.39	245.06	245.15	244.91	244.53	244.14	243.85	243.73
1932	244.16	244.69	244.75	245.29	245.62	245.63	245.74	245.73	245.34	244.95	244.79	244.56
1933	244.60	244.55	244.67	245.63	246.22	246.28	246.15	245.82	245.44	244.86	244.32	244.15

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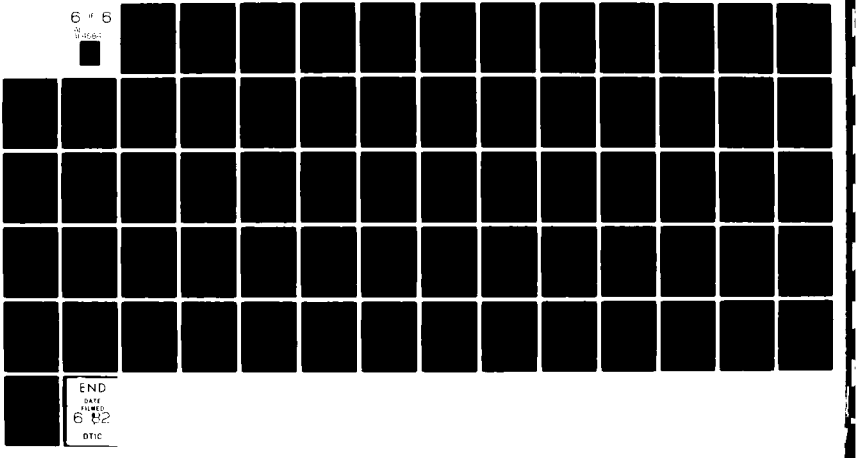
TABLE F-6 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	244.19	244.07	244.03	244.72	245.30	245.44	245.49	245.12	244.75	244.39	243.88	243.58
1935	243.49	243.37	243.47	244.01	244.62	245.07	245.58	245.57	245.22	244.68	244.26	243.91
1936	243.57	243.13	243.55	245.16	245.42	245.53	245.41	244.91	244.54	244.23	244.06	243.73
1937	244.05	244.60	244.65	245.00	245.92	246.36	246.37	245.95	245.26	244.70	244.57	244.27
1938	244.12	244.53	244.83	245.45	245.69	245.73	245.73	245.67	245.10	244.58	243.87	243.52
1939	243.51	243.63	244.03	244.83	245.26	245.25	245.48	245.52	245.07	244.63	244.12	243.66
1940	243.26	242.84	242.70	243.58	244.74	245.45	245.64	245.30	244.85	244.54	244.23	244.25
1941	244.51	244.33	244.11	244.66	245.29	245.53	245.49	245.25	244.87	244.49	244.44	244.49
1942	244.61	244.63	244.98	245.88	246.05	246.17	245.90	245.60	245.04	244.48	244.11	243.85
1943	244.18	244.30	244.46	245.00	245.95	246.76	246.40	245.83	245.06	244.28	244.02	243.59
1944	243.43	243.45	243.55	244.30	245.19	245.42	245.32	244.88	244.49	244.04	243.56	243.39
1945	243.40	243.43	244.19	245.40	246.11	246.47	246.33	245.76	245.05	244.99	244.56	244.26
1946	244.28	244.27	244.45	244.36	244.35	244.88	245.07	244.74	244.19	243.90	243.77	243.52
1947	243.73	244.13	244.10	245.12	245.97	247.02	247.12	246.79	246.02	244.99	244.24	243.77
1948	243.68	243.61	244.07	245.10	245.51	245.50	245.16	244.74	244.18	243.66	243.48	243.32
1949	243.53	243.95	244.29	244.73	244.98	245.08	245.07	244.70	244.29	243.94	243.47	243.29
1950	243.92	244.46	244.57	245.63	245.77	245.80	245.77	245.48	244.99	244.38	244.03	244.01
1951	244.19	244.46	245.04	246.03	246.48	246.23	246.04	245.41	244.79	244.14	243.78	243.79
1952	244.24	244.88	245.24	246.05	246.34	246.39	245.98	245.42	244.80	244.17	243.63	243.67
1953	243.85	243.93	243.93	244.64	245.28	245.72	245.59	245.15	244.50	243.84	243.52	243.56
1954	243.47	243.73	244.50	245.17	245.86	245.74	245.41	244.92	244.61	244.43	244.39	244.22
1955	244.57	244.58	245.08	245.96	246.07	245.76	245.28	244.80	244.21	244.03	243.99	243.52
1956	243.39	243.34	243.66	244.45	245.52	245.78	245.46	245.03	244.70	244.05	243.54	243.43
1957	243.51	243.73	243.99	244.42	245.04	245.61	245.98	245.50	244.88	244.17	243.78	243.65
1958	243.91	243.97	244.27	245.05	245.75	246.11	246.17	246.04	245.84	245.34	244.78	244.34
1959	244.14	244.34	244.67	245.65	246.00	245.86	245.68	245.31	244.84	244.50	244.41	244.62
1960	244.83	245.01	245.00	245.79	246.60	246.69	246.14	245.48	244.74	244.08	243.66	243.28
1961	243.06	242.91	243.74	244.65	245.49	245.69	245.50	244.98	244.59	244.09	243.62	243.40
1962	243.19	243.10	243.32	244.30	245.06	245.34	245.26	245.20	244.79	244.63	244.37	244.29
1963	243.88	243.50	243.44	244.49	245.39	245.75	245.64	245.51	245.03	244.46	244.06	243.83
1964	243.46	243.27	243.30	244.02	244.72	245.09	245.11	244.83	244.41	243.72	243.06	242.57
1965	242.31	242.21	242.50	243.04	243.83	244.11	244.29	244.10	243.88	243.73	243.87	244.06
1966	244.06	243.98	244.35	244.63	244.76	245.11	245.13	244.89	244.63	244.06	243.57	243.72
1967	243.79	243.95	243.99	244.87	245.93	246.46	246.53	246.18	245.48	245.01	244.82	244.51

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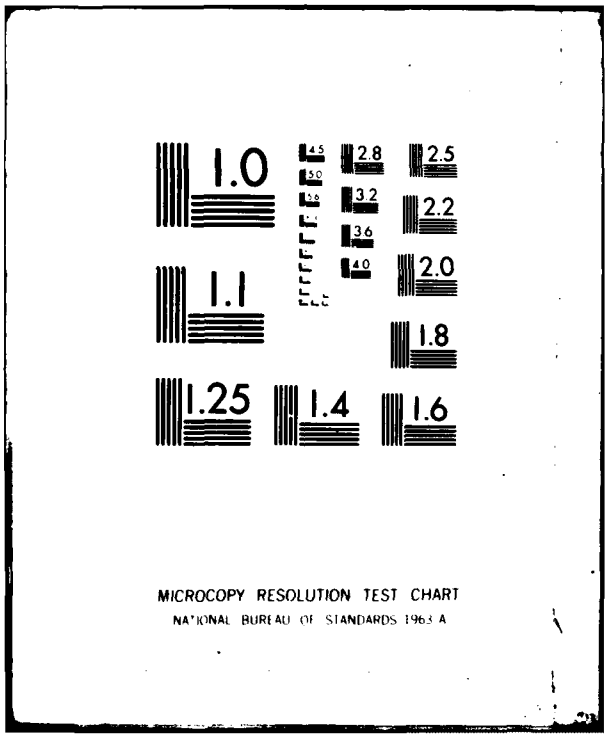

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TABLE F-6 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.39	244.42	244.24	244.79	244.86	245.27	245.50	245.24	244.86	244.24	243.89	243.99
1969	243.99	244.25	244.06	244.75	245.46	245.89	245.74	245.30	244.53	243.92	243.72	243.70
1970	243.62	243.60	243.52	244.16	244.82	245.15	245.51	245.34	244.81	244.61	244.45	244.37
1971	244.29	244.32	244.70	245.31	245.81	245.67	245.44	245.06	244.82	244.34	243.85	243.75
1972	243.90	243.99	244.20	245.01	245.89	246.04	246.31	245.98	245.27	244.61	244.40	244.63
1973	245.18	245.80	246.22	247.16	247.37	247.45	247.15	246.55	245.77	245.17	244.68	244.53
1974	244.94	245.44	245.77	246.37	246.85	247.04	246.88	246.38	245.60	244.83	244.28	244.23
1975	244.49	244.82	245.29	245.86	246.08	246.12	245.77	245.29	244.82	244.59	244.14	243.95
1976	244.23	244.50	245.43	246.32	246.94	247.20	247.23	246.88	246.13	245.42	244.55	243.75

TABLE F-7

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.41	244.54	244.69	245.29	245.55	245.57	245.56	245.41	244.89	244.33	243.90	243.99
1901	243.74	243.57	243.39	244.70	245.36	245.60	245.45	245.11	244.70	243.98	243.34	243.31
1902	243.56	243.50	244.16	244.88	245.19	245.71	246.50	246.35	245.51	244.72	244.11	243.79
1903	243.68	243.92	244.75	245.66	245.60	245.44	245.62	245.48	244.96	244.34	243.73	243.39
1904	243.29	243.64	244.15	245.47	245.98	246.15	245.94	245.49	244.87	244.25	243.59	243.26
1905	243.43	243.27	243.41	244.51	245.14	245.69	245.95	245.75	245.10	244.36	243.77	243.64
1906	244.00	244.13	243.93	244.27	244.72	245.18	245.53	245.30	244.53	244.00	243.85	243.68
1907	244.30	244.33	244.09	244.68	245.17	245.59	245.80	245.63	245.01	244.55	244.18	243.86
1908	244.26	244.16	244.23	244.81	245.53	245.85	245.72	245.29	244.40	243.71	243.23	242.82
1909	242.69	242.94	243.43	244.30	245.54	245.74	245.55	245.21	244.58	243.94	243.57	243.57
1910	243.77	243.95	244.45	244.90	245.47	245.50	245.29	245.20	244.92	244.48	243.90	243.58
1911	243.47	243.62	243.84	244.56	245.38	245.85	245.98	245.70	245.38	245.11	244.78	244.66
1912	244.70	244.57	244.49	245.40	246.21	246.60	246.13	245.52	245.01	244.56	244.15	243.84
1913	244.30	244.62	244.48	245.49	245.65	245.69	245.45	245.06	244.49	243.99	243.75	243.60
1914	243.58	243.74	243.67	244.71	245.24	245.26	245.14	244.92	244.72	244.19	243.64	243.25
1915	243.24	243.68	244.05	244.32	244.83	245.17	245.36	245.76	245.48	244.85	244.05	243.63
1916	244.08	244.41	244.38	245.24	245.92	246.58	246.48	245.58	244.61	243.91	243.58	243.47
1917	243.58	243.66	244.01	245.12	245.34	245.76	246.10	245.69	244.95	244.32	244.07	243.76
1918	243.44	243.42	244.14	244.77	244.88	245.02	245.16	244.96	244.72	244.25	243.98	243.76
1919	243.93	243.93	244.02	244.60	245.54	246.09	245.71	245.10	244.36	243.84	243.57	243.30
1920	243.10	242.94	243.08	244.00	244.68	245.03	245.40	245.65	245.40	244.91	244.40	244.15
1921	244.17	244.09	244.18	244.48	244.73	245.03	245.07	244.73	244.38	244.02	243.75	243.71
1922	243.75	243.88	244.37	245.31	245.78	245.87	245.98	245.55	245.02	244.39	243.63	243.20
1923	243.29	243.21	243.50	244.36	245.13	245.90	246.12	245.93	245.60	245.16	244.83	244.81
1924	244.75	244.63	244.42	245.00	245.81	246.03	245.87	245.54	244.90	244.47	243.72	243.23
1925	242.99	243.07	243.99	244.56	244.73	244.85	244.81	244.63	244.32	243.93	243.88	243.84
1926	243.43	243.26	243.24	244.16	245.15	245.45	245.51	245.42	245.33	245.09	244.97	244.82
1927	244.50	244.27	244.33	244.53	244.66	245.18	245.39	245.22	244.69	244.26	243.98	244.40
1928	244.75	244.72	244.47	244.82	245.09	245.27	245.57	245.47	244.79	244.21	243.93	243.82
1929	243.94	244.19	244.35	245.44	246.23	246.17	245.83	245.29	244.66	244.12	243.77	243.64
1930	244.28	244.83	245.38	245.66	245.52	245.42	245.35	244.77	244.20	243.67	243.27	243.11
1931	243.05	243.00	243.12	243.74	244.41	245.08	245.17	244.93	244.55	244.16	243.87	243.75
1932	244.21	244.71	244.69	245.19	245.54	245.57	245.68	245.67	245.30	244.91	244.75	244.52
1933	244.57	244.52	244.66	245.62	246.22	246.28	246.15	245.82	245.44	244.86	244.32	244.17

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TABLE F-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	244.22	244.11	244.07	244.76	245.34	245.48	245.53	245.16	244.80	244.45	243.96	243.67
1935	243.61	243.51	243.61	244.15	244.76	245.21	245.72	245.71	245.36	244.81	244.40	244.09
1936	243.77	243.38	243.76	245.37	245.59	245.66	245.53	245.03	244.66	244.35	244.18	243.86
1937	244.21	244.74	244.72	245.04	245.94	246.37	246.38	245.96	245.26	244.70	244.57	244.27
1938	244.14	244.56	244.83	245.37	245.61	245.68	245.68	245.63	245.08	244.56	243.86	243.52
1939	243.52	243.63	244.03	244.83	245.26	245.25	245.48	245.52	245.07	244.63	244.12	243.66
1940	243.28	242.87	242.73	243.61	244.77	245.48	245.66	245.32	244.87	244.56	244.25	244.27
1941	244.53	244.34	244.12	244.67	245.29	245.53	245.49	245.25	244.87	244.49	244.44	244.49
1942	244.61	244.62	244.95	245.71	245.89	246.04	245.81	245.54	244.99	244.44	244.08	243.83
1943	244.18	244.30	244.46	244.95	245.90	246.63	246.24	245.63	244.81	244.09	243.88	243.55
1944	243.42	243.45	243.55	244.30	245.19	245.42	245.32	244.88	244.49	244.04	243.56	243.40
1945	243.43	243.48	244.20	245.43	246.11	246.48	246.34	245.76	245.05	244.98	244.44	244.05
1946	244.14	244.15	244.[illegible]	244.20	244.22	244.77	244.98	244.67	244.13	243.87	243.75	243.50
1947	243.74	244.13	244.[illegible]	245.11	245.90	246.80	246.78	246.39	245.50	244.45	243.82	243.57
1948	243.60	243.55	244.[illegible]	245.06	245.48	245.47	245.15	244.73	244.18	243.66	243.48	243.32
1949	243.54	243.96	244.[illegible]	244.73	244.98	245.08	245.07	244.70	244.29	243.94	243.47	243.29
1950	243.98	244.49	244.[illegible]	245.62	245.75	245.79	245.76	245.47	244.98	244.38	244.03	244.01
1951	244.19	244.44	244.97	245.84	246.11	245.85	245.75	245.20	244.63	244.02	243.71	243.78
1952	244.23	244.85	245.16	245.87	246.02	246.02	245.68	245.20	244.63	244.04	243.57	243.66
1953	243.84	243.92	243.92	244.63	245.27	245.71	245.59	245.15	244.50	243.84	243.52	243.56
1954	243.49	243.76	244.53	245.20	245.86	245.74	245.41	244.92	244.61	244.43	244.39	244.22
1955	244.57	244.55	245.00	245.76	245.76	245.51	245.08	244.65	244.08	243.93	243.91	243.49
1956	243.39	243.35	243.67	244.46	245.53	245.78	245.46	245.03	244.70	244.05	243.54	243.43
1957	243.53	243.76	244.01	244.44	245.06	245.63	246.00	245.51	244.89	244.18	243.79	243.67
1958	243.93	244.01	244.31	245.09	245.79	246.15	246.21	246.08	245.88	245.38	244.81	244.36
1959	244.18	244.39	244.71	245.63	245.97	245.85	245.67	245.30	244.83	244.49	244.40	244.62
1960	244.83	244.94	244.78	245.47	246.15	246.16	245.73	245.16	244.49	243.89	243.52	243.17
1961	242.99	242.85	243.68	244.59	245.44	245.65	245.47	244.95	244.57	244.07	243.60	243.39
1962	243.20	243.12	243.34	244.32	245.08	245.36	245.28	245.22	244.81	244.65	244.39	244.30
1963	243.91	243.55	243.49	244.54	245.44	245.80	245.69	245.56	245.08	244.52	244.15	243.96
1964	243.62	243.43	243.46	244.18	244.88	245.25	245.27	244.99	244.57	243.90	243.28	242.81
1965	242.56	242.47	242.76	243.30	244.09	244.37	244.55	244.36	244.14	243.99	244.12	244.24
1966	244.21	244.10	244.40	244.59	244.71	245.07	245.09	244.85	244.59	244.02	243.53	243.68
1967	243.77	243.95	243.99	244.87	245.93	246.46	246.53	246.18	245.48	245.01	244.82	244.51

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TABLE F-7 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.39	244.37	244.15	244.64	244.74	245.18	245.43	245.20	244.84	244.23	243.88	243.98
1969	243.98	244.22	244.00	244.69	245.40	245.85	245.72	245.29	244.53	243.92	243.72	243.70
1970	243.62	243.60	243.52	244.16	244.82	245.15	245.51	245.34	244.81	244.61	244.45	244.37
1971	244.29	244.29	244.62	245.15	245.58	245.46	245.28	244.94	244.73	244.26	243.79	243.73
1972	243.90	243.98	244.17	244.96	245.84	245.96	246.17	245.73	244.87	244.19	244.08	244.31
1973	244.83	245.45	245.89	246.74	246.83	246.81	246.42	245.76	244.96	244.41	244.02	244.06
1974	244.57	245.08	245.43	245.97	246.32	246.41	246.15	245.55	244.76	244.11	243.85	244.01
1975	244.32	244.65	245.11	245.63	245.79	245.89	245.58	245.14	244.71	244.50	244.04	243.91
1976	244.21	244.44	245.35	246.12	246.60	246.73	246.64	246.19	245.35	244.59	243.82	243.48

TABLE F-8

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	83	82	82	82	114	114	110	118	121	123	121	83
1901	82	81	81	81	100	90	102	109	104	82	111	76
1902	75	75	75	75	80	76	76	70	67	67	81	70
1903	70	70	70	70	81	101	91	98	91	91	98	70
1904	70	70	70	70	70	76	70	67	77	92	114	70
1905	70	70	70	70	89	90	91	97	117	116	114	82
1906	81	80	80	80	80	81	87	82	82	82	76	67
1907	67	67	67	67	80	86	87	82	116	117	113	70
1908	70	70	70	69	70	76	87	82	77	82	55	67
1909	67	67	67	67	70	76	67	76	76	70	81	76
1910	76	75	75	75	75	70	67	55	55	55	55	55
1911	55	55	55	55	55	55	67	81	93	95	67	55
1912	55	55	55	55	94	81	81	76	76	67	67	55
1913	55	55	55	55	80	81	82	87	92	113	114	81
1914	81	80	79	79	80	81	81	81	76	81	55	70
1915	70	70	69	69	75	70	89	86	76	104	113	86
1916	85	85	84	85	106	118	119	119	119	119	116	77
1917	76	76	76	76	81	81	77	67	71	71	70	67
1918	67	67	67	67	70	70	77	70	71	71	95	77
1919	76	76	76	76	85	81	76	67	55	55	55	67
1920	67	67	67	67	93	90	99	99	87	55	55	67
1921	67	67	67	67	80	81	76	76	67	55	55	55
1922	55	55	55	55	55	55	55	55	55	55	55	55
1923	55	55	55	55	67	55	55	55	55	55	55	55
1924	55	55	55	55	55	55	55	55	55	55	55	55
1925	55	55	55	55	67	55	55	55	55	55	55	55
1926	55	55	55	55	55	55	55	55	55	70	84	67
1927	67	67	67	67	99	108	111	114	113	110	109	67
1928	67	67	67	67	84	86	98	102	109	118	117	82
1929	81	81	81	81	102	76	67	67	55	55	55	70
1930	70	70	70	70	80	76	82	87	77	70	76	67
1931	67	67	67	67	69	70	67	67	55	55	67	70
1932	70	69	69	69	79	84	75	85	91	67	55	55
1933	55	55	55	55	79	84	75	75	70	80	84	67

A.F. 2

TABLE F-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	67	67	67	67	82	92	84	80	75	102	107	84
1935	83	82	82	82	91	87	92	102	97	84	106	70
1936	69	69	69	69	95	103	102	88	88	70	55	55
1937	55	55	55	55	95	101	92	103	104	88	93	70
1938	69	69	69	70	96	96	105	100	100	90	92	76
1939	75	75	75	75	97	105	113	115	114	112	99	67
1940	67	67	67	67	69	80	85	80	67	55	55	55
1941	55	55	55	55	83	80	88	80	85	111	109	70
1942	70	69	69	69	84	88	76	81	81	70	100	76
1943	75	75	75	75	75	82	105	100	96	82	76	67
1944	67	67	67	67	70	81	98	112	116	114	97	76
1945	75	75	75	76	105	99	86	87	95	82	55	70
1946	70	70	70	70	88	81	86	81	76	97	111	76
1947	75	75	74	75	80	81	101	87	91	87	67	67
1948	67	67	67	67	88	76	70	70	76	55	55	67
1949	67	67	67	67	75	80	80	95	85	76	104	70
1950	69	69	69	69	75	102	111	115	115	114	113	86
1951	85	84	84	85	104	108	117	118	119	118	117	77
1952	77	76	76	76	105	95	106	116	112	82	55	55
1953	55	55	55	55	90	105	119	120	119	116	86	67
1954	67	67	67	67	97	108	117	104	82	70	55	67
1955	67	67	67	67	80	81	70	76	76	81	89	76
1956	75	75	74	74	70	70	70	70	67	55	55	55
1957	55	55	55	55	93	84	85	81	70	70	55	67
1958	67	67	67	67	74	67	70	70	75	80	55	70
1959	69	69	69	69	69	75	75	70	93	110	107	67
1960	67	67	67	67	75	80	76	70	67	55	55	70
1961	70	69	69	69	84	80	75	70	55	55	55	67
1962	67	67	67	67	75	75	70	67	67	70	55	55
1963	55	55	55	55	88	79	90	80	75	70	55	67
1964	67	67	67	67	84	94	99	93	101	105	103	74
1965	74	74	73	74	78	89	87	84	88	96	99	80
1966	79	79	79	79	93	96	92	89	103	84	106	67
1967	67	67	67	67	93	80	81	76	81	55	67	67

A.F. 2.3

TABLE F-8 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	67	67	67	67	87	81	103	116	118	118	116	87
1969	86	86	85	85	106	104	95	82	91	76	55	67
1970	67	67	67	67	85	100	95	98	87	70	101	82
1971	81	81	81	81	101	116	117	116	92	88	115	82
1972	81	81	80	81	97	98	92	104	119	118	87	70
1973	70	70	70	70	104	102	97	106	104	77	55	67
1974	67	67	67	67	103	99	103	108	106	83	55	77
1975	77	76	76	76	101	103	102	71	55	55	55	70
1976	70	70	70	70	105	95	95	67	55	55	55	55

TABLE F-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	121	133	144	166	172	175	176	173	172	173	173	168
1935	140	154	162	172	176	180	182	181	182	179	177	150
1936	139	143	161	173	177	181	182	182	181	180	175	170
1937	164	125	160	158	162	168	168	169	173	173	173	164
1938	138	154	142	178	184	191	194	195	196	194	190	185
1939	171	145	153	184	189	195	199	200	200	197	193	188
1940	133	148	156	173	175	178	182	184	184	181	178	175
1941	143	130	157	172	180	181	182	180	180	185	188	188
1942	155	114	170	189	194	198	201	198	196	195	193	187
1943	150	156	175	196	194	203	209	213	213	209	206	199
1944	150	168	173	196	195	198	201	201	200	198	195	188
1945	150	162	181	181	186	194	199	201	201	197	198	189
1946	167	157	196	202	204	203	203	201	198	194	190	184
1947	151	146	175	173	183	187	196	199	200	202	200	190
1948	172	166	178	188	190	194	194	193	188	183	179	175
1949	170	158	147	169	173	178	182	182	179	175	172	165
1950	152	133	140	158	169	177	186	191	191	191	189	182
1951	157	159	181	190	199	203	209	215	216	218	219	211
1952	205	199	202	210	218	222	228	233	230	223	217	211
1953	207	198	199	199	206	209	214	216	214	210	206	197
1954	164	151	187	187	193	202	209	210	209	208	208	203
1955	190	181	192	197	202	205	205	201	194	189	188	181
1956	138	137	164	178	175	183	187	188	187	185	183	177
1957	142	152	170	166	170	177	178	182	180	180	179	174
1958	141	129	165	163	175	173	172	172	171	170	168	156
1959	115	127	150	154	166	171	173	176	179	178	180	175
1960	165	146	167	179	194	202	208	209	207	203	200	183
1961	171	179	182	182	181	184	186	184	185	186	184	176
1962	150	142	172	178	183	185	186	185	183	179	173	162
1963	140	129	152	160	166	169	172	173	173	170	167	156
1964	135	129	148	150	154	158	160	162	162	163	161	156
1965	132	132	143	154	163	168	169	170	173	176	177	172
1966	169	162	171	179	182	184	184	183	180	177	174	170
1967	166	153	147	171	179	186	190	191	190	187	185	181

TABLE F-9

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	150	140	144	185	191	194	200	205	208	210	210	202
1901	177	137	168	142	205	216	217	218	214	210	205	197
1902	155	161	193	194	195	198	198	199	198	192	191	187
1903	146	144	181	189	194	198	201	205	207	208	205	195
1904	166	161	168	197	206	212	213	214	213	212	209	200
1905	135	149	173	206	206	210	213	215	215	212	209	206
1906	204	161	182	211	213	214	215	212	209	204	200	184
1907	157	148	176	198	201	205	207	209	210	207	204	201
1908	148	140	172	195	201	209	214	213	210	204	199	192
1909	174	125	156	189	192	196	199	199	198	195	189	179
1910	146	148	186	192	195	197	197	194	193	189	186	172
1911	137	133	172	176	183	187	188	186	186	185	185	180
1912	140	148	165	175	188	198	201	204	205	204	203	201
1913	193	154	173	187	198	206	210	211	210	208	206	202
1914	168	166	177	200	198	201	204	203	201	198	194	181
1915	139	158	175	186	185	188	189	187	189	188	188	185
1916	172	151	157	193	201	210	216	216	215	215	214	207
1917	176	174	207	206	209	214	220	221	219	213	207	176
1918	151	169	184	170	225	228	226	224	218	214	211	207
1919	199	194	196	199	210	213	215	212	207	205	202	198
1920	132	143	180	201	206	207	208	208	210	208	202	196
1921	193	146	187	191	199	200	200	200	199	195	190	186
1922	153	146	175	189	198	200	204	204	202	199	195	190
1923	148	147	162	180	189	192	193	192	191	189	185	177
1924	155	126	160	169	178	181	183	187	188	183	179	158
1925	141	138	153	171	171	171	173	171	166	164	160	158
1926	114	121	132	155	163	170	173	172	169	164	165	167
1927	125	134	156	177	184	190	192	193	192	192	190	184
1928	155	131	151	195	201	204	207	209	211	213	217	213
1929	184	180	208	213	222	231	232	232	228	223	216	191
1930	170	178	202	200	204	210	213	213	207	200	196	188
1931	157	121	135	184	185	185	184	181	180	179	178	173
1932	168	166	143	170	171	175	177	178	176	175	171	158
1933	162	127	156	159	168	175	179	178	175	173	171	159

TABLE F-9 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	165	162	178	179	185	189	193	196	199	200	197	189
1969	163	178	186	189	194	201	206	208	206	204	202	191
1970	148	162	186	188	194	198	202	203	204	204	202	197
1971	182	175	193	204	211	214	217	218	215	210	208	199
1972	193	185	190	194	205	210	211	217	220	219	213	207
1973	203	192	201	211	221	227	230	232	231	228	223	212
1974	201	201	204	208	217	225	230	231	230	226	220	212
1975	201	196	194	206	216	221	224	223	217	211	207	201
1976	165	173	192	206	213	221	221	219	214	205	199	179

TABLE F-10

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	154	150	152	189	193	197	202	208	209	209	209	201
1901	181	157	174	139	192	211	217	220	215	210	205	201
1902	156	166	188	189	195	200	207	203	200	195	191	196
1903	156	148	190	196	202	206	210	209	210	208	208	215
1904	174	181	175	207	212	213	216	217	214	213	210	206
1905	144	167	187	201	208	214	220	220	217	215	212	208
1906	205	160	183	200	214	219	220	215	210	206	203	184
1907	175	156	180	200	207	205	210	213	212	210	206	205
1908	157	157	182	200	209	215	219	219	211	209	201	192
1909	180	136	155	194	198	199	201	200	198	198	196	182
1910	167	150	180	197	203	201	198	195	193	191	190	177
1911	137	142	168	174	185	188	188	187	186	186	189	183
1912	145	149	170	183	198	203	206	207	208	208	208	206
1913	194	156	174	199	208	209	211	212	211	210	210	202
1914	178	171	179	195	202	203	205	207	204	199	198	194
1915	141	165	167	184	190	190	193	193	192	189	189	187
1916	186	161	156	193	210	210	215	219	217	217	215	216
1917	169	176	205	212	219	218	221	225	217	217	211	180
1918	163	177	178	190	231	230	230	227	223	216	216	211
1919	211	198	206	212	218	218	215	217	213	211	208	196
1920	139	151	183	201	201	207	209	211	210	210	204	194
1921	192	143	192	196	199	202	201	200	198	200	190	189
1922	167	152	180	186	193	202	205	206	203	201	197	193
1923	159	150	166	182	188	193	194	193	192	192	188	172
1924	164	129	159	166	179	184	184	188	189	185	182	166
1925	152	141	158	163	165	173	174	171	168	166	163	151
1926	120	119	138	153	165	166	170	170	170	169	174	175
1927	130	135	159	178	185	189	195	192	192	193	194	186
1928	173	152	155	186	202	205	207	210	213	216	217	215
1929	195	182	217	230	235	240	240	235	229	223	217	200
1930	179	185	206	211	214	214	217	215	209	206	195	189
1931	161	128	136	182	183	185	185	181	182	183	180	179
1932	168	174	144	166	177	177	178	179	178	175	173	171
1933	167	146	160	167	175	183	182	179	175	173	172	160

A.F. 2.9

TABLE F-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	131	134	154	169	174	175	176	172	172	172	172	171
1935	147	163	160	172	180	176	181	182	182	180	175	150
1936	147	146	159	168	174	181	181	181	184	179	175	170
1937	169	133	158	170	168	168	168	169	170	173	172	161
1938	143	161	157	179	187	191	195	195	197	195	191	187
1939	169	155	161	190	190	195	198	198	200	197	194	187
1940	143	149	155	171	176	182	183	184	185	183	184	182
1941	151	135	152	168	180	182	182	180	181	184	189	186
1942	162	122	167	190	196	201	203	199	199	193	194	191
1943	165	160	187	198	210	209	218	217	215	212	208	197
1944	157	166	176	198	199	203	205	201	201	198	195	194
1945	155	161	181	186	199	202	206	205	207	206	200	195
1946	177	168	199	203	205	208	207	203	198	194	189	185
1947	163	150	178	196	195	198	204	208	206	205	201	193
1948	183	176	193	195	203	200	200	198	193	185	180	178
1949	180	176	153	173	175	179	183	182	179	176	172	172
1950	168	148	156	176	175	182	190	193	195	195	191	189
1951	164	173	191	200	205	211	216	220	220	220	222	224
1952	220	211	216	221	224	227	234	237	236	225	219	213
1953	208	202	206	206	209	215	221	219	216	210	207	199
1954	165	165	195	196	199	208	213	211	212	214	211	208
1955	201	190	202	203	207	210	211	203	202	196	191	187
1956	146	140	172	187	198	192	193	198	197	192	186	179
1957	148	153	171	173	177	179	187	187	187	184	182	180
1958	138	135	167	160	175	176	176	175	174	174	166	163
1959	121	130	163	164	171	173	175	179	181	182	185	185
1960	176	156	172	194	198	209	208	210	209	205	201	184
1961	174	184	187	191	186	187	189	188	188	188	186	180
1962	151	147	180	182	184	188	187	186	185	180	177	165
1963	144	131	159	167	169	173	175	174	174	172	167	160
1964	141	132	153	156	157	160	163	165	165	164	162	158
1965	139	143	154	166	166	169	171	171	174	178	180	181
1966	174	168	178	186	185	187	186	186	183	179	178	180
1967	172	159	176	183	183	191	195	194	193	193	191	193

A.F. 29

TABLE F-10 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	171	177	189	185	189	194	196	198	200	201	199	196
1969	171	191	193	197	200	205	208	210	206	204	205	194
1970	151	164	189	196	195	199	203	204	204	206	204	203
1971	184	182	204	209	210	214	216	218	215	210	208	203
1972	198	188	202	204	207	210	213	219	221	221	219	215
1973	213	198	221	217	224	231	232	233	234	229	228	220
1974	215	213	217	218	224	226	231	233	230	228	223	215
1975	209	207	206	217	217	223	225	227	222	215	209	206
1976	168	190	210	213	219	222	227	222	216	208	202	182

TABLE F-11

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	205	202	208	212	219	217	212	212	208	204	201	202
1901	196	188	164	196	200	206	206	205	205	176	178	180
1902	178	171	178	189	201	206	215	218	211	212	206	224
1903	193	217	225	236	239	236	230	226	224	217	210	205
1904	198	199	211	231	240	242	237	231	227	221	214	209
1905	200	193	193	204	221	230	228	226	222	217	212	212
1906	210	209	205	211	221	223	221	221	194	195	197	206
1907	234	201	200	230	213	244	238	233	227	225	221	218
1908	220	190	203	216	251	247	238	234	225	194	187	185
1909	182	184	192	197	219	225	218	215	208	198	196	217
1910	206	200	208	213	227	202	198	199	197	196	191	189
1911	180	179	180	188	199	199	192	191	190	191	187	194
1912	211	202	202	218	228	228	221	221	222	217	214	207
1913	216	220	220	250	253	248	239	232	223	217	216	216
1914	210	203	200	212	208	213	209	207	206	202	194	192
1915	184	186	189	188	197	199	200	207	207	204	197	195
1916	224	225	220	228	240	246	241	234	225	217	214	212
1917	210	203	207	225	237	246	250	245	239	233	235	227
1918	186	206	217	213	216	221	219	220	219	193	218	219
1919	214	213	219	229	246	247	237	232	203	225	198	194
1920	182	171	175	190	209	212	212	236	229	221	218	195
1921	217	213	193	207	220	241	209	205	202	197	198	201
1922	192	185	190	208	222	223	217	236	230	219	186	206
1923	179	173	178	188	200	205	201	196	193	188	185	190
1924	190	189	186	196	209	211	209	205	201	197	188	184
1925	177	173	182	187	192	187	182	183	181	176	174	174
1926	163	157	159	175	183	184	180	183	187	194	217	213
1927	199	193	196	204	213	216	211	209	204	199	197	210
1928	209	206	201	205	213	219	222	222	215	211	211	214
1929	212	213	223	242	261	259	254	247	240	232	231	231
1930	240	234	241	245	226	225	220	215	210	205	200	198
1931	191	183	178	184	196	198	195	193	189	185	183	184
1932	191	198	197	197	206	205	199	196	190	183	182	181
1933	183	182	185	196	208	207	198	193	187	181	174	174

TABLE F-11 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	168	160	160	168	178	177	174	173	171	167	163	163
1935	161	157	164	192	177	181	202	201	193	162	164	165
1936	154	147	159	174	184	206	174	172	171	171	169	167
1937	175	187	186	191	207	209	211	207	196	187	182	178
1938	175	179	190	224	227	225	219	218	211	204	199	196
1939	189	187	194	203	191	217	212	210	203	197	193	167
1940	161	158	164	178	193	199	198	196	195	191	186	189
1941	191	183	180	182	213	188	184	182	178	175	198	195
1942	187	186	190	206	216	220	216	216	211	207	206	207
1943	208	202	206	214	236	247	244	240	232	224	220	214
1944	200	195	199	213	229	207	203	201	198	195	192	190
1945	183	177	194	230	238	243	239	234	227	231	225	220
1946	215	204	210	213	220	228	226	197	193	190	189	187
1947	184	184	184	206	228	240	255	247	240	228	221	217
1948	210	203	213	227	239	215	212	208	203	194	193	191
1949	192	198	203	204	210	208	202	197	191	187	181	181
1950	193	206	207	221	227	245	233	225	220	215	212	219
1951	216	215	228	236	245	243	236	231	224	219	219	223
1952	229	242	246	253	259	256	247	242	238	227	219	221
1953	220	197	206	236	220	249	239	212	207	202	221	193
1954	189	188	200	217	228	224	217	214	210	215	243	238
1955	237	230	241	244	248	242	209	210	204	202	199	199
1956	188	177	191	202	225	228	222	222	217	207	199	197
1957	190	189	193	205	217	217	218	211	205	197	193	196
1958	194	182	184	187	194	195	196	197	193	186	181	177
1959	171	177	186	196	208	205	196	192	187	186	208	210
1960	210	209	208	215	226	230	227	225	219	210	203	198
1961	190	188	203	212	232	206	202	204	201	193	187	185
1962	177	175	183	191	197	198	192	190	186	184	182	180
1963	171	164	171	183	191	189	182	180	176	170	167	163
1964	158	156	163	173	185	183	176	174	170	162	159	158
1965	159	161	173	179	189	187	181	179	177	198	194	193
1966	191	189	196	200	211	210	204	201	196	164	168	181
1967	179	181	185	195	231	203	224	218	211	207	206	209

TABLE F-11 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
PLAN 25N

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	208	213	213	218	223	226	223	221	216	209	206	210
1969	208	215	214	224	240	245	245	241	230	221	216	217
1970	203	177	185	197	210	214	213	212	208	231	227	226
1971	218	215	226	228	233	235	227	225	226	228	221	220
1972	218	215	224	232	245	245	243	240	238	236	240	246
1973	244	243	251	261	267	271	265	260	251	244	239	240
1974	239	246	258	263	270	269	260	253	245	237	236	240
1975	239	241	251	251	257	258	250	247	227	246	217	243
1976	236	213	240	266	270	265	259	254	244	214	208	203

TABLE F-12

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	216	233	242	251	258	246	243	250	254	246	237	249
1901	219	222	206	232	248	255	259	250	252	236	217	211
1902	210	207	209	218	206	211	244	288	284	270	254	241
1903	217	234	258	278	282	270	269	278	285	273	253	218
1904	210	219	235	271	287	294	297	306	300	284	254	213
1905	210	210	204	222	231	251	276	290	291	274	253	233
1906	220	251	247	236	228	233	251	264	255	237	240	230
1907	220	250	242	246	240	247	264	282	282	280	278	256
1908	220	255	260	274	286	296	302	305	278	250	217	210
1909	210	207	204	202	250	265	265	266	253	236	221	216
1910	210	222	237	246	257	252	230	230	238	243	233	216
1911	210	207	204	188	194	211	219	222	223	218	218	225
1912	220	234	235	250	268	281	297	294	283	279	277	256
1913	220	258	270	288	295	299	288	280	272	259	256	240
1914	215	234	225	244	255	246	240	234	247	241	228	214
1915	210	207	216	189	192	207	215	228	266	262	247	217
1916	219	246	250	262	280	296	306	310	294	264	252	222
1917	210	224	230	262	267	272	293	308	300	285	283	258
1918	216	219	252	271	260	246	248	252	260	260	263	246
1919	220	249	253	260	277	296	302	295	271	252	237	213
1920	210	207	204	188	194	211	220	234	267	266	264	255
1921	220	250	257	259	247	236	238	226	223	223	221	218
1922	210	207	218	238	260	264	279	276	278	267	238	212
1923	210	207	204	188	195	210	219	222	223	220	216	225
1924	220	233	227	220	242	253	258	262	252	253	231	213
1925	210	207	209	222	214	212	216	220	220	214	214	226
1926	210	207	204	188	196	208	214	220	224	252	266	265
1927	220	246	252	256	236	233	238	254	251	246	242	254
1928	220	257	264	266	265	254	266	279	279	264	261	248
1929	220	255	264	283	302	306	305	309	297	282	272	254
1930	220	259	280	296	296	280	278	264	254	236	217	212
1931	210	207	204	188	192	211	218	222	222	214	208	210
1932	211	232	238	242	245	227	221	222	220	218	220	217
1933	211	208	204	210	234	226	221	221	221	213	201	210

TABLE F-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	210	207	204	188	188	192	198	199	199	195	198	210
1935	210	207	204	188	188	193	207	216	217	207	199	210
1936	210	207	204	202	214	208	213	211	211	204	200	210
1937	210	208	219	192	215	218	243	250	238	221	226	215
1938	210	216	235	247	252	245	236	258	259	262	242	216
1939	210	208	223	235	244	224	218	225	234	228	218	211
1940	210	207	204	188	191	210	229	232	222	219	212	211
1941	220	229	214	189	192	206	210	213	214	205	203	210
1942	210	218	226	247	260	268	257	262	259	253	252	246
1943	220	251	259	266	282	303	306	310	302	276	275	252
1944	210	220	221	226	245	250	252	241	231	223	221	213
1945	210	207	209	251	273	288	303	303	290	298	294	275
1946	220	256	265	267	240	237	245	244	230	224	231	215
1947	210	232	227	249	272	292	300	310	310	303	280	262
1948	220	234	244	274	284	282	260	252	244	225	223	215
1949	210	221	234	240	232	220	220	222	223	219	210	210
1950	210	230	236	264	273	264	268	270	276	264	261	259
1951	220	257	277	293	306	310	307	294	284	268	258	251
1952	220	260	280	298	307	309	308	297	287	273	248	244
1953	220	245	242	252	254	272	273	272	256	235	222	217
1954	210	211	239	252	278	273	263	248	248	252	274	262
1955	220	258	278	292	302	298	272	261	251	246	264	238
1956	210	214	224	235	263	278	275	265	265	251	229	214
1957	210	217	224	217	210	220	246	257	250	229	218	213
1958	210	207	204	188	194	210	217	220	225	238	230	213
1959	210	207	214	242	255	251	236	221	221	219	219	240
1960	220	249	254	262	281	296	286	284	266	250	234	215
1961	210	207	204	204	236	262	248	236	227	225	232	215
1962	210	207	204	188	192	206	210	217	217	213	211	210
1963	208	207	198	187	190	203	212	217	216	211	205	210
1964	210	207	193	177	184	194	200	206	206	205	198	192
1965	185	182	179	182	176	189	201	205	202	205	212	231
1966	220	230	242	240	220	216	220	221	221	218	209	210
1967	210	207	204	191	202	223	246	266	263	265	276	276

TABLE F-12 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244	254	240	260	238	234	252	262	269	260	253	254
1969	232	252	252	264	274	288	297	293	276	254	247	240
1970	226	228	220	219	226	218	234	252	250	258	274	260
1971	234	250	268	274	289	286	272	268	273	268	263	248
1972	221	230	253	274	291	302	311	310	309	303	292	271
1973	250	284	298	324	337	350	350	324	317	306	293	269
1974	239	268	300	309	308	328	336	330	314	304	277	287
1975	255	250	287	303	304	309	290	284	283	286	280	258
1976	245	258	289	306	328	348	350	326	309	302	293	230

TABLE F-13

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	219	232	242	254	260	244	242	249	253	246	236	249
1901	220	222	202	232	249	256	259	250	253	236	217	207
1902	202	200	207	225	208	211	249	291	285	272	254	242
1903	217	234	258	284	284	268	267	278	284	273	252	214
1904	202	222	237	276	287	294	310	304	298	282	250	208
1905	202	212	201	224	233	252	277	291	292	275	255	234
1906	224	254	246	234	228	232	250	264	254	236	239	228
1907	227	252	239	244	239	246	264	281	282	280	278	264
1908	228	255	256	274	284	296	301	302	276	245	216	206
1909	202	200	200	205	254	267	268	268	255	239	221	212
1910	213	223	238	246	258	252	230	230	238	243	234	212
1911	202	200	195	188	194	211	219	222	223	219	224	230
1912	234	234	235	254	278	288	300	290	280	276	274	268
1913	227	268	261	291	296	296	283	275	268	256	253	236
1914	213	234	225	244	255	246	240	234	247	241	228	210
1915	202	202	221	190	192	207	215	233	268	262	248	216
1916	224	248	250	265	280	296	322	312	288	260	246	219
1917	209	224	230	262	267	273	298	306	299	284	282	256
1918	215	220	252	271	260	246	248	252	260	260	263	254
1919	223	249	250	258	276	298	303	293	270	250	234	209
1920	202	200	195	188	194	211	220	239	271	270	266	267
1921	226	252	254	258	245	235	237	226	223	223	221	216
1922	202	200	220	241	263	266	280	277	278	267	239	208
1923	202	200	195	188	195	210	219	224	228	221	219	228
1924	230	233	228	220	243	254	258	262	253	253	232	209
1925	202	200	210	227	216	212	216	220	220	214	215	233
1926	202	200	195	188	200	208	214	220	225	257	270	281
1927	232	248	252	254	232	230	236	253	250	245	241	272
1928	234	266	264	266	256	245	260	275	276	261	259	260
1929	223	256	258	285	302	312	313	306	291	277	266	246
1930	227	269	282	301	294	273	273	261	251	232	216	208
1931	202	200	195	188	192	211	218	222	222	214	208	204
1932	208	237	241	247	251	230	221	223	222	218	221	218
1933	212	207	200	214	236	228	221	221	221	213	202	202

TABLE F-13 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	202	200	195	188	188	192	198	199	202	202	202	202
1935	202	200	195	188	188	193	207	216	217	207	202	202
1936	202	200	195	213	230	210	213	211	211	204	202	202
1937	202	220	229	200	225	225	249	255	241	221	228	214
1938	202	216	236	252	256	247	237	260	261	262	243	212
1939	202	210	226	237	246	225	218	225	236	228	218	207
1940	202	200	195	188	191	212	236	236	222	219	212	211
1941	232	231	213	190	192	206	210	213	214	205	204	206
1942	210	219	226	253	262	268	256	262	259	253	252	246
1943	227	254	259	264	281	310	316	310	298	272	271	242
1944	203	222	222	227	245	250	253	241	231	223	221	209
1945	202	200	205	256	280	297	304	303	290	299	294	288
1946	228	257	259	265	236	234	243	242	229	223	228	211
1947	206	232	228	249	274	292	310	320	312	299	276	258
1948	220	232	242	273	283	282	260	251	243	225	223	210
1949	203	224	236	241	234	220	220	222	223	219	210	204
1950	203	234	239	267	275	266	270	270	276	264	262	270
1951	226	260	272	293	308	311	304	290	282	266	256	256
1952	227	270	277	298	310	312	303	292	284	270	241	243
1953	222	246	240	251	254	271	272	272	256	235	222	217
1954	202	207	242	255	284	274	264	248	248	252	274	284
1955	232	264	272	292	306	290	266	256	247	243	262	231
1956	202	216	225	236	264	280	275	265	265	251	229	210
1957	202	219	225	218	209	220	248	258	250	229	218	209
1958	203	200	196	188	194	210	217	220	226	243	234	210
1959	202	202	220	245	260	255	239	221	221	219	219	252
1960	235	251	254	262	281	300	297	276	260	243	225	210
1961	202	200	198	214	252	259	256	243	227	219	217	208
1962	202	200	195	188	192	206	210	217	217	213	208	210
1963	202	200	195	188	191	204	207	212	211	202	202	202
1964	202	200	195	188	188	194	200	202	203	202	202	202
1965	202	200	195	188	188	192	201	205	208	204	212	240
1966	226	233	240	241	221	216	220	221	221	216	206	204
1967	202	200	195	188	197	229	253	271	267	268	278	279

TABLE F-13 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	258	254	263	244	240	252	260	267	258	252	266
1969	224	256	251	261	272	286	296	292	275	254	245	244
1970	218	230	222	222	226	218	234	252	250	258	274	283
1971	229	257	265	280	290	281	268	263	270	266	259	251
1972	223	250	253	269	291	304	311	311	304	296	290	294
1973	235	280	297	322	325	326	324	317	309	302	297	293
1974	235	280	290	310	319	322	320	315	307	298	287	286
1975	230	269	278	304	308	305	295	288	286	289	285	271
1976	227	260	280	308	320	323	324	321	313	305	295	259

TABLE F-14

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	219	233	243	254	259	244	242	248	252	245	235	248
1901	220	222	202	232	249	256	259	250	253	236	217	206
1902	200	200	208	226	208	211	250	291	286	272	254	243
1903	218	234	263	290	282	267	266	276	283	272	250	212
1904	200	223	237	280	298	304	305	300	294	279	245	207
1905	200	212	201	224	233	252	277	291	292	275	255	234
1906	224	254	245	234	228	232	250	264	254	236	239	228
1907	227	252	239	244	239	246	264	281	282	280	278	264
1908	228	259	259	276	282	296	299	302	274	242	216	205
1909	200	200	200	206	255	269	268	268	254	239	221	212
1910	213	223	238	246	258	252	230	230	238	243	234	210
1911	200	200	195	188	194	211	219	222	223	219	224	230
1912	234	241	239	255	280	296	294	286	277	274	273	264
1913	227	271	264	300	293	292	280	272	266	255	250	234
1914	212	234	225	244	255	246	239	234	247	241	228	210
1915	200	202	222	190	192	207	215	233	269	263	248	216
1916	224	253	254	270	288	310	316	310	281	255	231	216
1917	207	224	230	262	267	273	297	306	300	284	282	256
1918	215	220	256	270	258	245	248	252	259	260	263	254
1919	223	252	253	257	276	305	301	291	268	248	233	208
1920	200	200	195	188	194	211	220	240	272	271	267	268
1921	227	257	258	259	243	234	236	225	223	223	221	214
1922	200	200	220	244	268	264	279	276	278	267	238	207
1923	200	200	195	188	195	210	219	224	228	221	219	228
1924	230	237	227	220	243	254	258	262	253	253	232	208
1925	200	200	210	227	217	212	216	220	220	214	215	234
1926	200	200	195	188	200	208	214	220	225	258	270	281
1927	232	256	258	255	228	227	234	251	248	244	241	272
1928	234	272	266	265	254	244	258	273	274	260	258	260
1929	223	260	261	288	312	318	313	300	286	273	256	242
1930	226	274	285	309	292	270	271	259	250	231	215	206
1931	200	200	195	188	192	211	218	222	222	214	208	203
1932	206	242	246	247	249	229	221	222	221	218	221	218
1933	212	207	199	214	236	228	221	221	221	213	202	200

TABLE F-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	200	200	195	188	188	192	198	199	200	200	200	200
1935	200	200	195	188	188	193	207	216	217	208	200	200
1936	200	200	195	215	234	211	213	211	211	204	201	200
1937	200	224	235	200	226	226	249	255	241	221	228	214
1938	200	217	241	254	257	246	236	258	260	262	242	212
1939	200	210	226	237	246	225	218	225	236	228	218	206
1940	200	200	195	188	191	212	236	234	222	219	212	211
1941	232	231	213	190	192	206	210	213	214	205	203	206
1942	210	220	234	258	259	266	254	260	258	252	251	245
1943	226	255	261	267	285	318	317	316	295	267	265	237
1944	202	223	222	227	245	250	253	241	231	223	221	208
1945	200	200	206	257	280	296	304	304	290	305	304	286
1946	226	259	261	264	234	232	241	241	228	223	227	210
1947	206	233	228	253	280	307	312	331	321	291	262	237
1948	219	230	242	272	283	281	260	251	243	225	223	209
1949	202	224	236	241	234	220	220	222	223	219	210	202
1950	202	235	240	270	274	266	269	270	276	264	262	270
1951	226	265	276	308	318	305	298	286	278	263	250	254
1952	226	274	280	311	317	312	297	287	280	268	234	242
1953	222	246	240	251	254	270	272	272	256	235	222	217
1954	200	207	242	258	284	274	264	248	248	252	274	284
1955	232	268	276	307	306	284	262	253	245	241	258	228
1956	200	216	226	236	264	280	275	265	265	251	229	209
1957	201	220	226	218	210	220	248	258	250	229	218	208
1958	202	200	196	188	194	210	217	220	226	244	234	210
1959	200	203	222	250	259	255	238	221	221	219	219	252
1960	235	263	264	270	292	296	289	270	255	238	222	208
1961	200	200	198	213	252	258	255	242	226	219	217	207
1962	200	200	195	188	192	206	210	217	217	213	208	210
1963	200	200	195	188	191	204	207	212	211	201	200	200
1964	200	200	195	188	188	194	200	202	203	200	200	200
1965	200	200	195	188	188	192	201	205	208	204	214	244
1966	228	236	248	244	221	216	220	221	221	216	206	203
1967	200	200	195	188	197	229	253	271	267	268	278	279

TABLE F-14 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	264	257	265	241	238	251	258	266	258	251	266
1969	224	261	252	260	270	286	295	292	275	254	245	244
1970	218	230	222	222	226	218	234	252	250	258	274	283
1971	229	261	268	287	293	277	265	260	268	264	256	250
1972	223	252	256	268	294	302	318	324	312	290	284	300
1973	234	280	295	333	334	334	330	321	307	295	281	281
1974	231	280	287	322	328	330	328	320	303	283	262	278
1975	228	270	279	312	308	300	292	285	284	288	284	267
1976	227	264	283	323	331	333	333	328	319	306	267	228

TABLE F-15

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	216	233	242	251	258	246	243	250	254	246	237	249
1901	219	222	206	232	248	255	259	250	252	236	217	211
1902	210	207	209	218	206	211	244	288	284	270	254	241
1903	217	234	258	278	282	270	269	278	285	273	253	218
1904	210	219	235	271	287	294	297	306	300	284	254	213
1905	210	210	204	222	231	251	276	290	291	274	253	233
1906	220	251	247	236	228	233	251	264	255	237	240	230
1907	220	250	242	246	240	247	264	282	282	280	278	256
1908	220	255	260	274	286	296	302	305	278	250	217	210
1909	210	207	204	202	250	265	265	266	253	236	221	216
1910	210	222	237	246	257	252	230	230	238	243	233	216
1911	210	207	204	188	194	211	219	222	223	218	218	225
1912	220	234	235	250	268	281	297	294	283	279	277	256
1913	220	258	270	288	295	299	288	280	272	259	256	240
1914	215	234	225	244	255	246	240	234	247	241	228	214
1915	210	207	216	189	192	207	215	228	266	262	247	217
1916	219	246	250	262	280	296	306	310	294	264	252	222
1917	210	224	230	262	267	272	293	308	300	285	283	258
1918	216	219	252	271	260	246	248	252	260	260	263	246
1919	220	249	253	260	277	296	302	295	271	252	237	213
1920	210	207	204	188	194	211	220	234	267	266	264	255
1921	220	250	257	259	247	236	238	226	223	223	221	218
1922	210	207	218	238	260	264	279	276	278	267	238	212
1923	210	207	204	188	195	210	219	222	223	220	216	225
1924	220	233	227	220	242	253	258	262	252	253	231	213
1925	210	207	209	222	214	212	216	220	220	214	214	226
1926	210	207	204	188	196	208	214	220	224	252	266	265
1927	220	246	252	256	236	233	238	254	251	246	242	254
1928	220	257	264	266	265	254	266	279	279	264	261	248
1929	220	255	264	283	302	306	305	309	297	282	272	254
1930	220	250	280	296	294	280	278	264	254	236	217	212
1931	210	207	204	188	192	211	218	222	222	214	208	210
1932	211	232	238	242	245	227	221	222	220	218	220	217
1933	211	208	204	210	234	226	221	221	221	213	201	210

TABLE F-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	210	207	204	188	188	192	198	199	199	195	198	210
1935	210	207	204	188	188	193	207	216	217	207	199	210
1936	210	207	204	202	214	208	213	211	211	204	200	210
1937	210	208	219	192	215	218	243	250	238	221	226	215
1938	210	216	235	247	252	245	236	258	259	262	242	216
1939	210	208	223	235	244	224	218	225	234	228	218	211
1940	210	207	204	188	191	210	229	232	222	219	212	211
1941	220	229	214	189	192	206	210	213	214	205	203	210
1942	210	218	226	247	260	268	257	262	259	253	252	246
1943	220	251	259	266	282	303	306	310	302	276	275	252
1944	210	220	221	226	245	250	252	241	231	223	221	213
1945	210	207	209	251	273	288	303	303	290	298	294	275
1946	220	256	265	267	240	237	245	244	230	224	231	215
1947	210	232	227	249	272	292	300	310	310	303	280	262
1948	220	234	244	274	284	282	260	252	244	225	223	215
1949	210	221	234	240	232	220	220	222	223	219	210	210
1950	210	230	236	264	273	264	268	270	276	264	261	259
1951	220	257	277	293	306	310	307	294	284	268	258	251
1952	220	260	280	298	307	309	308	297	287	273	248	244
1953	220	245	242	252	254	272	273	272	256	235	222	217
1954	210	211	239	252	274	273	263	248	248	252	274	262
1955	220	258	278	292	307	298	272	261	251	246	264	238
1956	210	214	224	235	264	278	275	265	265	251	229	214
1957	210	217	224	217	210	220	246	257	250	229	218	213
1958	210	207	204	188	194	210	217	220	225	238	230	213
1959	210	207	214	242	255	251	236	221	221	219	219	240
1960	220	249	254	262	281	296	286	284	266	250	234	215
1961	210	207	204	204	236	262	248	236	227	225	232	215
1962	210	207	204	188	192	206	210	217	217	213	211	210
1963	208	207	198	187	190	203	212	217	216	211	205	210
1964	210	207	193	177	184	[illegible]	200	206	206	205	198	192
1965	185	182	179	182	176	189	201	205	202	205	212	231
1966	220	230	242	240	220	216	220	221	221	218	209	210
1967	210	207	204	191	202	223	246	266	263	265	276	276

TABLE F-15 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244	254	240	260	238	234	252	262	269	260	253	254
1969	232	252	252	264	274	288	297	293	276	254	247	240
1970	226	228	220	219	226	218	234	252	250	258	274	260
1971	238	250	268	274	289	286	272	268	273	268	263	248
1972	221	230	253	274	291	302	311	310	309	303	292	271
1973	250	284	298	324	337	350	350	324	317	306	293	269
1974	239	268	300	309	308	328	336	330	314	304	277	287
1975	255	250	287	303	304	309	290	284	283	286	280	258
1976	245	258	289	306	328	348	350	326	309	302	293	230

TABLE F-16

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	219	232	242	254	260	244	242	249	253	246	236	249
1901	220	222	202	232	249	256	259	250	253	236	217	207
1902	202	200	207	225	208	211	249	291	285	272	254	242
1903	217	234	258	284	284	268	267	278	284	273	252	214
1904	202	222	237	276	287	294	310	304	298	282	250	208
1905	202	212	201	224	233	252	277	291	292	275	255	234
1906	224	254	246	234	228	232	250	264	254	236	239	228
1907	227	252	239	244	239	246	264	281	282	280	278	264
1908	228	255	256	274	284	296	301	302	276	245	216	206
1909	202	200	200	205	254	267	268	268	255	239	221	212
1910	213	223	238	246	258	252	230	230	238	243	234	212
1911	202	200	195	188	194	211	219	222	223	219	224	230
1912	234	234	235	254	278	288	300	290	280	276	274	268
1913	227	268	261	291	296	296	283	275	268	256	253	236
1914	213	234	225	244	255	246	240	234	247	241	228	210
1915	202	202	221	190	192	207	215	233	268	262	248	216
1916	224	248	250	265	280	296	322	312	288	260	246	219
1917	209	224	230	262	267	273	298	306	299	284	282	256
1918	215	220	252	271	260	246	248	252	260	260	263	254
1919	223	249	250	258	276	298	303	293	270	250	234	209
1920	202	200	195	188	194	211	220	239	271	270	266	267
1921	226	252	254	258	245	235	237	226	223	223	221	216
1922	202	200	220	241	263	266	280	277	278	267	239	208
1923	202	200	195	188	195	210	219	224	228	221	219	228
1924	230	233	228	220	243	254	258	262	253	253	232	209
1925	202	200	210	227	216	212	216	220	220	214	215	233
1926	202	200	195	188	200	208	214	220	225	257	270	281
1927	232	248	252	254	232	230	236	253	250	245	241	272
1928	234	266	264	266	256	245	260	275	276	261	259	260
1929	223	256	258	285	302	312	313	306	291	277	266	246
1930	227	269	282	301	294	273	273	261	251	232	216	208
1931	202	200	195	188	192	211	218	222	222	214	208	204
1932	208	237	241	247	251	230	221	223	222	218	221	218
1933	212	207	200	214	236	228	221	221	221	213	202	202

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TABLE F-16 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	202	200	195	188	188	192	198	199	202	202	202	202
1935	202	200	195	188	188	193	207	216	217	207	202	202
1936	202	200	195	213	230	210	213	211	211	204	202	202
1937	202	220	229	200	225	225	249	255	241	221	228	214
1938	202	214	236	252	256	247	237	260	261	262	243	212
1939	202	210	226	237	246	225	218	225	236	228	218	207
1940	202	200	195	188	191	212	236	236	222	219	212	211
1941	232	231	213	190	192	204	210	213	214	205	204	206
1942	210	219	226	253	262	268	256	262	259	253	252	246
1943	227	254	259	264	281	310	316	310	298	272	271	242
1944	203	222	222	227	245	250	253	241	231	223	221	209
1945	202	200	205	256	280	297	304	303	290	299	294	288
1946	228	257	259	265	236	234	243	242	229	223	228	211
1947	206	232	228	249	274	292	310	320	312	299	276	258
1948	220	232	242	273	283	282	260	251	243	225	223	210
1949	203	224	236	241	234	220	220	222	223	219	210	204
1950	203	234	239	267	275	266	270	270	276	264	262	270
1951	226	260	272	293	308	311	304	290	282	266	256	256
1952	227	270	277	298	310	312	303	292	284	270	241	243
1953	222	246	240	251	250	271	272	272	256	235	222	217
1954	202	207	242	255	284	274	264	248	248	252	274	284
1955	232	264	272	292	306	290	266	256	247	243	262	231
1956	202	214	225	236	264	260	275	265	265	251	229	210
1957	202	219	225	218	209	220	248	258	250	229	218	209
1958	203	200	196	188	194	210	217	220	226	243	234	210
1959	202	202	220	245	260	255	239	221	221	219	219	252
1960	235	251	254	262	281	300	297	276	260	243	225	210
1961	202	200	198	214	252	259	256	243	227	219	217	208
1962	202	200	195	188	192	206	210	217	217	213	208	210
1963	202	200	195	188	191	204	207	212	211	202	202	202
1964	202	200	195	188	188	194	200	202	203	202	202	202
1965	202	200	195	188	188	192	201	205	208	204	212	240
1966	226	233	240	241	221	216	220	221	221	216	206	204
1967	202	200	195	188	197	229	253	271	267	268	278	279

TABLE F-16 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 2

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	258	254	263	244	240	252	260	267	258	252	266
1969	224	256	251	261	272	286	296	292	275	254	245	244
1970	218	230	222	222	226	218	234	252	250	258	274	283
1971	229	257	265	280	290	291	268	263	270	266	259	251
1972	223	250	253	269	291	304	311	311	304	296	290	294
1973	235	280	297	322	325	326	324	317	309	302	297	293
1974	235	280	290	310	319	322	320	315	307	298	287	286
1975	230	269	278	304	308	305	295	288	286	289	285	271
1976	227	260	280	308	320	323	324	321	313	305	295	259

TABLE F-17

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	246	261	262	334	348	305	296	292	280	276	281	280
1901	244	233	221	339	357	330	289	268	272	256	240	235
1902	224	213	272	316	302	292	304	320	302	291	289	282
1903	244	260	335	374	352	320	310	304	295	297	267	220
1904	213	235	266	375	433	422	353	327	319	322	278	228
1905	218	221	217	291	308	310	310	313	311	294	280	254
1906	251	278	263	285	308	308	284	278	262	245	251	242
1907	251	261	256	299	327	320	308	301	299	308	315	298
1908	255	280	287	348	438	391	338	318	284	250	226	215
1909	214	216	216	296	413	373	308	302	279	261	243	234
1910	236	240	276	326	330	306	252	245	257	266	260	230
1911	217	210	203	248	295	274	246	236	232	229	237	256
1912	261	253	250	332	379	394	333	307	298	296	334	310
1913	278	307	319	396	379	336	298	282	278	270	288	271
1914	232	250	242	295	316	276	260	242	251	247	236	223
1915	214	217	237	228	248	242	240	250	282	278	260	231
1916	252	282	276	376	427	401	354	329	293	274	261	247
1917	228	240	250	341	362	360	353	342	321	304	310	276
1918	227	232	276	348	336	298	292	272	280	306	329	298
1919	257	272	293	345	408	390	328	303	285	280	282	247
1920	221	218	228	265	268	249	249	262	288	284	288	298
1921	250	269	316	346	312	266	253	239	233	237	241	236
1922	218	214	255	362	372	316	311	294	292	280	251	218
1923	211	208	207	242	319	280	250	242	248	235	238	257
1924	259	256	252	297	363	324	291	283	273	283	254	235
1925	214	227	260	314	294	272	254	246	240	236	249	268
1926	224	216	210	246	297	280	259	244	243	276	316	321
1927	262	287	316	304	283	282	275	282	266	265	297	325
1928	278	308	303	382	400	327	305	306	304	320	330	306
1929	264	290	316	392	444	381	353	320	302	292	284	261
1930	258	296	308	366	351	324	323	285	268	249	233	221
1931	214	212	212	232	234	241	235	236	234	226	224	228
1932	241	273	270	332	304	260	246	244	257	270	293	256
1933	249	232	222	330	332	271	243	243	237	228	215	214

TABLE F-17 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	217	208	214	287	286	240	227	211	212	217	216	228
1935	233	223	236	245	241	228	240	236	233	223	222	222
1936	222	216	260	290	351	277	238	226	228	232	242	230
1937	249	264	271	276	316	268	270	275	257	242	274	248
1938	229	248	306	358	341	286	256	276	280	285	262	234
1939	222	234	254	309	343	278	252	253	253	247	242	229
1940	218	216	212	253	258	282	279	257	242	236	234	239
1941	265	258	236	264	244	230	230	231	232	235	249	242
1942	242	250	285	340	322	312	275	276	273	268	273	266
1943	252	283	306	336	417	388	350	335	315	289	294	260
1944	224	239	251	270	299	272	268	254	246	241	240	228
1945	225	220	267	331	350	349	328	318	308	336	336	310
1946	257	287	320	316	276	270	257	255	242	245	259	249
1947	248	278	268	364	432	446	368	354	338	308	281	258
1948	240	252	291	334	330	308	275	265	254	236	238	228
1949	235	255	279	328	294	250	246	237	238	236	227	231
1950	238	261	272	338	330	304	298	292	300	286	295	302
1951	264	300	332	443	388	330	327	302	296	290	306	294
1952	264	311	320	393	388	358	320	311	298	292	256	273
1953	252	280	296	331	305	292	287	285	267	249	237	234
1954	221	236	290	347	339	317	289	266	272	303	325	324
1955	278	308	328	430	355	311	280	268	261	260	296	259
1956	228	240	254	311	334	328	304	291	301	291	257	238
1957	233	254	270	260	250	250	302	280	277	262	264	260
1958	242	242	248	271	238	246	252	247	255	280	276	243
1959	230	232	254	331	312	288	264	244	247	249	268	302
1960	277	310	304	399	417	340	343	306	281	262	249	236
1961	225	227	225	274	306	302	294	273	258	251	245	239
1962	236	238	234	274	259	238	232	240	236	236	236	232
1963	220	220	220	269	238	230	225	229	234	220	229	231
1964	229	226	238	245	229	226	221	218	217	217	217	222
1965	223	230	223	232	242	216	218	228	242	268	270	292
1966	272	277	313	314	279	262	244	248	243	240	242	271
1967	242	249	229	287	280	290	295	295	292	308	351	331

TABLE F-17 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
PLAN 25N, CATEGORY 3

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	276	307	315	344	281	270	286	285	291	282	282	298
1969	259	296	286	352	352	336	328	323	300	280	290	284
1970	257	266	260	301	304	273	282	290	278	290	312	320
1971	270	303	314	394	386	314	290	284	292	287	278	281
1972	252	284	290	362	410	362	376	371	348	332	345	352
1973	292	336	392	424	409	384	363	348	332	326	316	328
1974	279	324	348	419	469	417	368	340	322	308	306	326
1975	276	313	332	395	381	348	320	306	309	318	323	319
1976	286	323	365	469	432	378	366	355	345	341	300	277

ANNEX G

ADJUSTED BASE CASE

ANNEX G

Adjusted Base Case

Table		Page
G-1	Lake Superior Monthly Mean Elevation	A.G. 1
G-2	Lakes Michigan-Huron Monthly Mean Elevation	A.G. 4
G-3	Lake St. Clair Monthly Mean Elevation	A.G. 7
G-4	Lake Erie Monthly Mean Elevation	A.G.10
G-5	Lake Ontario Monthly Mean Elevation (With Deviation)	A.G.13
G-6	Lake Superior Monthly Mean Outflow	A.G.16
G-7	Lakes Michigan-Huron Monthly Mean Outflow	A.G.19
G-8	Lake St. Clair Monthly Mean Outflow	A.G.22
G-9	Lake Erie Monthly Mean Outflow	A.G.25
G-10	Lake Ontario Monthly Mean Outflow (With Deviation)	A.G.28
G-11	Lake St. Louis Monthly Mean Outflow (With Deviation)	A.G.31

TABLE G-1

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	601.36	601.16	600.98	600.92	601.02	601.00	601.10	601.40	601.78	601.93	601.69	601.32
1901	600.95	600.66	600.50	600.53	600.64	600.86	601.17	601.26	601.11	601.03	600.89	600.59
1902	600.30	600.08	599.96	600.02	600.25	600.53	600.71	600.77	600.81	600.82	600.78	600.62
1903	600.38	600.07	599.94	600.10	600.54	600.85	600.97	601.09	601.13	601.11	600.94	600.61
1904	600.28	600.12	600.03	599.99	600.27	600.66	600.81	600.98	601.19	601.31	601.16	600.80
1905	600.46	600.24	600.25	600.37	600.60	600.92	601.18	601.35	601.46	601.37	601.16	600.95
1906	600.68	600.48	600.30	600.31	600.57	600.88	601.08	601.11	601.11	601.04	600.92	600.72
1907	600.50	600.35	600.29	600.27	600.50	600.87	601.04	601.26	601.46	601.37	601.05	600.64
1908	600.29	600.10	599.96	599.97	600.37	600.88	601.15	601.16	601.07	600.95	600.69	600.42
1909	600.18	599.98	599.84	599.82	600.14	600.42	600.64	600.88	600.90	600.82	600.77	600.69
1910	600.46	600.20	599.99	600.00	600.14	600.22	600.27	600.38	600.44	600.34	600.19	599.93
1911	599.65	599.45	599.27	599.22	599.49	599.91	600.30	600.60	600.69	600.60	600.40	600.23
1912	600.02	599.82	599.72	599.87	600.18	600.44	600.62	600.77	600.85	600.84	600.70	600.48
1913	600.22	599.95	599.98	600.23	600.56	600.81	601.02	601.20	601.30	601.28	601.14	600.90
1914	600.58	600.32	600.11	600.14	600.45	600.71	600.88	600.98	601.01	600.92	600.74	600.43
1915	600.16	600.05	599.80	599.75	599.98	600.35	600.66	600.71	600.86	601.01	600.98	600.87
1916	600.69	600.48	600.30	600.53	601.07	601.47	601.62	601.61	601.64	601.60	601.31	601.04
1917	600.77	600.49	600.44	600.46	600.58	600.84	601.00	601.12	601.23	601.16	600.99	600.73
1918	600.48	600.32	600.15	600.12	600.42	600.76	600.95	601.08	601.09	601.14	601.19	601.09
1919	600.87	600.64	600.45	600.46	600.64	600.73	600.78	600.79	600.79	600.72	600.66	600.56
1920	600.37	600.27	600.38	600.65	600.86	601.08	601.27	601.26	601.07	600.93	600.80	600.61
1921	600.37	600.07	599.95	600.13	600.48	600.64	600.71	600.76	600.71	600.57	600.30	599.96
1922	599.64	599.43	599.34	599.52	599.89	600.21	600.45	600.59	600.59	600.45	600.20	599.95
1923	599.72	599.47	599.32	599.37	599.51	599.66	599.85	600.00	600.05	600.05	599.97	599.78
1924	599.54	599.30	599.10	599.14	599.29	599.40	599.56	599.81	600.00	600.00	599.83	599.52
1925	599.24	599.05	598.96	599.04	599.20	599.41	599.64	599.75	599.82	599.75	599.49	599.23
1926	599.00	598.79	598.69	598.70	598.85	599.17	599.53	599.79	600.05	600.21	600.18	600.09
1927	599.91	599.77	599.80	600.03	600.45	600.81	601.03	601.07	600.94	600.81	600.59	600.35
1928	600.16	599.98	599.88	600.03	600.36	600.74	601.06	601.25	601.37	601.46	601.35	601.02
1929	600.76	600.62	600.59	600.70	600.81	600.89	601.07	601.14	601.14	601.17	601.08	600.87
1930	600.63	600.46	600.32	600.28	600.49	600.85	601.12	601.12	601.03	600.94	600.80	600.57
1931	600.29	600.00	599.73	599.65	599.79	600.00	600.18	600.22	600.23	600.32	600.35	600.26
1932	600.05	599.88	599.72	599.70	599.96	600.17	600.33	600.54	600.43	600.18	600.02	599.84
1933	599.61	599.44	599.29	599.34	599.74	600.06	600.19	600.22	600.23	600.23	600.10	599.88

A.G.J

TABLE G-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	599.69	599.55	599.44	599.50	599.77	600.01	600.11	600.13	600.27	600.35	600.28	600.14
1935	599.90	599.68	599.57	599.71	599.90	600.15	600.44	600.54	600.42	600.36	600.24	600.00
1936	599.80	599.67	599.66	599.78	600.16	600.48	600.43	600.39	600.35	600.17	599.95	599.78
1937	599.66	599.65	599.62	599.75	600.15	600.33	600.45	600.60	600.52	600.37	600.24	600.02
1938	599.79	599.63	599.59	599.90	600.32	600.66	600.85	600.88	600.85	600.72	600.57	600.39
1939	600.21	600.08	600.00	600.09	600.43	600.89	601.14	601.20	601.12	600.86	600.54	600.19
1940	599.91	599.68	599.46	599.40	599.71	600.21	600.46	600.45	600.34	600.21	600.11	600.00
1941	599.79	599.57	599.39	599.57	599.95	600.18	600.33	600.39	600.58	600.75	600.60	600.34
1942	600.12	599.89	599.79	599.91	600.25	600.51	600.61	600.73	600.74	600.74	600.70	600.49
1943	600.24	600.07	599.98	600.05	600.41	601.01	601.33	601.33	601.21	601.02	600.87	600.59
1944	600.25	599.99	599.82	599.85	600.19	600.71	601.11	601.31	601.34	601.10	600.84	600.60
1945	600.29	600.16	600.25	600.53	600.75	600.85	600.96	601.07	601.09	600.94	600.79	600.62
1946	600.41	600.27	600.27	600.38	600.51	600.70	600.86	600.87	600.90	600.95	600.82	600.55
1947	600.25	599.98	599.78	599.89	600.29	600.82	601.13	601.14	601.14	601.01	600.79	600.51
1948	600.22	599.97	599.81	600.09	600.41	600.46	600.54	600.68	600.66	600.43	600.33	600.22
1949	600.01	599.82	599.66	599.68	599.93	600.25	600.55	600.64	600.50	600.44	600.30	600.03
1950	599.82	599.64	599.53	599.65	600.20	600.80	601.11	601.25	601.21	601.13	601.04	600.81
1951	600.49	600.34	600.35	600.58	600.96	601.24	601.39	601.45	601.55	601.55	601.36	601.14
1952	600.95	600.74	600.56	600.68	600.87	601.05	601.42	601.63	601.52	601.15	600.84	600.66
1953	600.47	600.35	600.32	600.50	600.89	601.31	601.56	601.65	601.53	601.22	600.91	600.69
1954	600.48	600.32	600.19	600.34	600.85	601.26	601.37	601.23	601.10	601.00	600.88	600.66
1955	600.36	600.17	600.10	600.32	600.63	600.75	600.86	600.98	600.95	600.85	600.77	600.55
1956	600.27	600.02	599.75	599.69	599.98	600.29	600.52	600.68	600.66	600.55	600.39	600.21
1957	599.93	599.69	599.61	599.77	600.03	600.25	600.47	600.50	600.46	600.35	600.26	600.13
1958	599.90	599.70	599.52	599.51	599.60	599.77	600.04	600.23	600.31	600.24	600.10	599.90
1959	599.61	599.39	599.25	599.28	599.61	599.98	600.11	600.34	600.62	600.62	600.36	600.04
1960	599.84	599.62	599.41	599.58	600.13	600.49	600.64	600.73	600.74	600.64	600.57	600.38
1961	600.06	599.90	599.87	599.96	600.18	600.34	600.41	600.39	600.39	600.45	600.37	600.19
1962	599.92	599.73	599.65	599.65	599.92	600.17	600.23	600.33	600.41	600.31	600.05	599.79
1963	599.59	599.44	599.40	599.56	599.76	600.01	600.19	600.20	600.18	600.05	599.90	599.65
1964	599.39	599.18	598.97	599.10	599.58	599.98	600.10	600.17	600.25	600.15	599.94	599.72
1965	599.47	599.27	599.17	599.26	599.65	599.98	600.10	600.21	600.34	600.38	600.33	600.23
1966	600.03	599.82	599.77	599.91	600.16	600.34	600.41	600.54	600.50	600.35	600.21	599.99
1967	599.83	599.70	599.61	599.85	600.14	600.33	600.53	600.62	600.54	600.44	600.37	600.14

A.G.2

TABLE G-1 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	599.90	599.66	599.57	599.84	600.19	600.56	601.04	601.33	601.49	601.54	601.30	601.01
1969	600.91	600.80	600.60	600.69	600.95	601.07	601.13	601.20	601.14	600.95	600.78	600.55
1970	600.33	600.17	600.02	600.11	600.55	600.90	601.08	601.12	601.06	601.11	601.14	601.03
1971	600.76	600.60	600.59	600.70	601.04	601.31	601.38	601.34	601.26	601.29	601.24	601.02
1972	600.80	600.62	600.53	600.64	600.91	601.08	601.23	601.50	601.61	601.43	601.20	601.01
1973	600.76	600.55	600.55	600.73	600.97	601.22	601.36	601.48	601.48	601.37	601.24	601.02
1974	600.81	600.64	600.47	600.58	600.89	601.16	601.40	601.54	601.51	601.39	601.34	601.20
1975	601.02	600.89	600.73	600.68	600.86	601.11	601.23	601.15	601.08	600.99	600.99	600.95
1976	600.71	600.53	600.52	600.76	600.94	601.02	601.11	601.04	600.84	600.56	600.27	599.96

TABLE G-2

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	577.44	577.47	577.57	577.71	577.96	578.15	578.41	578.66	578.71	578.69	578.65	578.43
1901	578.15	578.04	578.21	578.59	578.89	579.06	579.20	579.28	579.06	578.78	578.50	578.24
1902	578.05	577.90	577.95	578.12	578.35	578.65	578.97	579.00	578.77	578.49	578.28	578.07
1903	577.88	577.93	578.16	578.43	578.67	578.86	578.96	579.00	579.04	578.96	578.68	578.39
1904	578.21	578.18	578.42	578.85	579.31	579.63	579.68	579.60	579.45	579.28	579.01	578.66
1905	578.42	578.35	578.50	578.71	579.00	579.40	579.62	579.64	579.53	579.29	579.07	578.88
1906	578.80	578.88	578.96	579.13	579.34	579.51	579.57	579.41	579.18	578.96	578.78	578.66
1907	578.63	578.67	578.73	578.90	579.14	579.40	579.53	579.48	579.38	579.21	578.97	578.77
1908	578.59	578.55	578.71	578.98	579.41	579.72	579.84	579.75	579.39	578.98	578.52	578.13
1909	577.93	577.92	578.01	578.31	578.80	579.11	579.18	579.06	578.85	578.49	578.19	578.13
1910	578.11	578.08	578.11	578.34	578.61	578.69	578.64	578.51	578.35	578.14	577.89	577.57
1911	577.39	577.39	577.38	577.51	577.82	578.05	578.05	577.91	577.82	577.78	577.72	577.65
1912	577.59	577.56	577.56	577.74	578.34	578.77	578.87	578.94	578.96	578.84	578.67	578.51
1913	578.33	578.22	578.34	578.78	579.25	579.50	579.56	579.49	579.27	579.06	578.98	578.78
1914	578.56	578.49	578.51	578.63	578.83	579.10	579.23	579.16	578.98	578.73	578.39	578.02
1915	577.87	577.92	577.90	577.88	577.99	578.16	578.31	578.35	578.36	578.20	578.03	577.93
1916	577.88	577.94	578.09	578.53	579.11	579.61	579.85	579.75	579.53	579.38	579.25	579.16
1917	579.08	578.96	578.97	579.22	579.52	579.90	580.28	580.26	579.98	579.64	579.33	579.08
1918	578.97	579.06	579.29	579.58	579.94	580.17	580.14	580.00	579.70	579.42	579.26	579.22
1919	579.13	578.97	579.05	579.39	579.78	579.97	579.90	579.68	579.37	579.16	578.97	578.74
1920	578.54	578.41	578.57	578.91	579.12	579.29	579.44	579.45	579.36	579.12	578.78	578.53
1921	578.40	578.29	578.38	578.79	579.08	579.11	579.04	578.90	578.76	578.52	578.22	578.07
1922	577.94	577.90	578.07	578.50	578.97	579.18	579.31	579.21	578.94	578.58	578.21	577.91
1923	577.64	577.48	577.51	577.78	578.15	578.40	578.43	578.31	578.16	577.97	577.64	577.37
1924	577.16	577.08	577.19	577.41	577.71	577.95	578.07	578.16	578.10	577.75	577.38	577.04
1925	576.76	576.67	576.75	576.87	576.86	576.90	576.98	576.83	576.55	576.27	576.02	575.84
1926	575.72	575.70	575.77	576.03	576.36	576.67	576.85	576.84	576.77	576.70	576.75	576.78
1927	576.72	576.75	576.93	577.19	577.57	577.93	578.10	578.04	577.89	577.78	577.71	577.66
1928	577.55	577.55	577.69	578.09	578.53	578.84	579.08	579.18	579.16	579.22	579.36	579.34
1929	579.30	579.26	579.39	579.93	580.58	580.96	581.00	580.83	580.48	580.09	579.73	579.39
1930	579.19	579.23	579.31	579.39	579.58	579.80	579.94	579.80	579.42	578.99	578.57	578.21
1931	577.92	577.72	577.70	577.76	577.84	577.95	577.92	577.67	577.53	577.40	577.28	577.15
1932	577.09	577.17	577.12	577.17	577.39	577.56	577.58	577.53	577.33	577.08	576.85	576.70
1933	576.65	576.61	576.59	576.85	577.39	577.71	577.73	577.51	577.19	576.92	576.66	576.48

TABLE G-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	576.44	576.36	576.30	576.53	576.76	576.90	576.93	576.74	576.65	576.56	576.49	576.51
1935	576.44	576.45	576.60	576.80	576.93	577.14	577.31	577.25	577.08	576.84	576.69	576.58
1936	576.47	576.50	576.60	576.78	577.05	577.26	577.25	577.17	577.13	577.01	576.71	576.44
1937	576.36	576.38	576.35	576.51	576.88	577.14	577.25	577.22	577.12	576.95	576.80	576.61
1938	576.52	576.71	577.10	577.50	577.81	578.10	578.24	578.25	578.17	577.92	577.63	577.41
1939	577.25	577.24	577.35	577.59	577.94	578.26	578.42	578.42	578.30	578.04	577.75	577.47
1940	577.22	577.07	576.96	577.00	577.28	577.63	577.82	577.86	577.81	577.57	577.34	577.24
1941	577.18	577.13	577.02	577.14	577.38	577.47	577.48	577.34	577.25	577.39	577.54	577.51
1942	577.41	577.38	577.56	577.84	578.17	578.52	578.63	578.48	578.28	578.12	577.98	577.87
1943	577.80	577.85	578.05	578.35	578.77	579.33	579.70	579.77	579.61	579.28	579.00	578.70
1944	578.45	578.36	578.37	578.48	578.65	578.90	579.02	578.90	578.78	578.61	578.36	578.10
1945	577.87	577.76	577.85	578.09	578.44	578.88	579.11	579.05	578.95	578.83	578.66	578.49
1946	578.40	578.44	578.61	578.78	578.89	579.07	579.09	578.88	578.60	578.33	578.05	577.81
1947	577.67	577.60	577.57	577.93	578.58	579.05	579.28	579.27	579.12	578.94	578.67	578.29
1948	577.96	577.84	578.02	578.39	578.69	578.87	578.87	578.69	578.34	577.86	577.58	577.45
1949	577.30	577.28	577.28	577.41	577.60	577.80	577.95	577.82	577.51	577.19	576.91	576.70
1950	576.69	576.80	576.96	577.34	577.72	578.00	578.24	578.31	578.24	578.09	577.92	577.79
1951	577.77	577.87	578.08	578.62	579.13	579.32	579.55	579.69	579.61	579.58	579.64	579.60
1952	579.61	579.62	579.65	579.98	580.34	580.50	580.69	580.78	580.57	580.03	579.57	579.37
1953	579.16	579.03	579.07	579.27	579.51	579.79	579.95	579.93	579.72	579.39	579.05	578.69
1954	578.41	578.33	578.41	578.67	579.03	579.38	579.62	579.57	579.45	579.50	579.51	579.26
1955	579.03	578.86	578.80	578.99	579.23	579.31	579.24	579.01	578.61	578.30	578.12	577.86
1956	577.67	577.62	577.66	577.87	578.24	578.52	578.63	578.69	578.51	578.14	577.81	577.56
1957	577.37	577.24	577.21	577.35	577.65	577.95	578.16	578.11	577.87	577.64	577.44	577.36
1958	577.31	577.23	577.15	577.18	577.20	577.20	577.27	577.20	577.05	576.85	576.55	576.26
1959	576.09	576.10	576.22	576.63	577.10	577.28	577.28	577.33	577.33	577.28	577.29	577.31
1960	577.31	577.35	577.35	577.65	578.37	578.91	579.12	579.14	578.94	578.56	578.28	578.00
1961	577.66	577.50	577.53	577.70	577.87	578.02	578.13	578.08	578.02	577.90	577.66	577.42
1962	577.26	577.26	577.34	577.53	577.77	577.93	577.91	577.80	577.60	577.32	576.98	576.62
1963	576.34	576.20	576.29	576.51	576.76	576.91	576.96	576.95	576.80	576.54	576.24	575.91
1964	575.68	575.54	575.46	575.62	575.92	576.10	576.20	576.20	576.13	575.94	575.74	575.60
1965	575.51	575.54	575.65	576.01	576.48	576.70	576.72	576.69	576.81	576.88	576.84	576.88
1966	576.86	576.82	577.00	577.28	577.45	577.57	577.56	577.41	577.16	576.84	576.76	576.87
1967	576.90	576.88	576.91	577.31	577.75	578.08	578.27	578.16	577.95	577.73	577.61	577.61

TABLE G-2 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	577.58	577.52	577.53	577.71	577.96	578.23	578.43	578.51	578.58	578.47	578.28	578.19
1969	578.16	578.14	578.11	578.34	578.78	579.22	579.54	579.53	579.21	578.93	578.76	578.53
1970	578.36	578.26	578.18	578.34	578.68	578.99	579.23	579.22	579.15	579.09	578.90	578.81
1971	578.71	578.69	578.83	579.14	579.46	579.65	579.76	579.75	579.58	579.36	579.12	579.03
1972	578.93	578.76	578.78	579.07	579.47	579.70	579.84	580.04	580.15	580.03	579.85	579.74
1973	579.72	579.67	579.84	580.22	580.65	581.05	581.16	581.12	580.90	580.57	580.27	579.98
1974	579.89	579.87	579.88	580.16	580.56	580.88	581.04	580.97	580.73	580.40	580.09	579.85
1975	579.66	579.62	579.71	579.91	580.23	580.52	580.61	580.53	580.32	579.91	579.60	579.46
1976	579.30	579.29	579.64	580.09	580.42	580.61	580.62	580.38	579.92	579.41	578.98	578.56

A.G.K

TABLE G-3

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	572.37	572.50	572.96	573.24	573.46	573.56	573.65	573.76	573.62	573.48	573.38	573.25
1901	572.76	572.11	572.36	571.83	572.95	573.65	573.90	573.90	573.77	573.47	573.27	573.33
1902	572.31	572.09	572.87	573.23	573.54	573.85	574.44	574.38	574.03	573.91	573.57	573.55
1903	573.59	573.30	573.72	574.29	574.41	574.47	574.50	574.32	574.24	573.99	573.70	573.86
1904	572.62	573.03	573.88	574.61	574.86	575.01	575.00	574.80	574.57	574.28	573.99	573.85
1905	572.83	572.60	572.97	573.65	574.19	574.67	574.84	574.75	574.52	574.29	574.02	573.92
1906	573.92	573.23	573.28	573.92	574.34	574.57	574.63	574.50	574.24	574.04	573.94	573.79
1907	573.98	573.64	573.60	574.24	574.49	574.71	574.82	574.69	574.48	574.38	574.12	574.01
1908	573.64	573.22	574.06	574.66	574.99	575.10	575.02	574.91	574.45	574.13	573.57	573.27
1909	573.17	572.51	572.74	573.72	574.38	574.61	574.54	574.34	574.02	573.62	573.46	574.05
1910	573.12	572.67	573.50	573.86	574.13	574.14	573.98	573.85	573.64	573.48	573.20	572.91
1911	571.95	571.86	572.49	573.07	573.27	573.40	573.30	573.17	573.07	573.05	572.92	573.02
1912	573.21	573.23	573.47	573.84	574.05	574.21	574.22	574.20	574.21	574.02	573.87	573.59
1913	573.87	573.40	573.72	575.10	575.22	575.10	574.96	574.74	574.39	574.14	574.06	573.88
1914	573.30	573.19	573.00	573.78	574.44	574.57	574.51	574.41	574.20	573.90	573.54	573.67
1915	572.40	572.85	572.72	573.09	573.36	573.48	573.68	573.87	573.81	573.59	573.29	573.18
1916	573.71	573.44	573.08	574.02	574.67	574.97	575.06	574.87	574.50	574.24	574.05	574.30
1917	574.27	573.90	573.87	574.57	574.95	575.31	575.61	575.49	575.09	574.85	574.73	574.35
1918	573.04	573.30	573.50	573.68	574.50	574.75	574.81	574.71	574.57	574.31	574.20	574.12
1919	574.43	573.87	574.21	574.75	575.27	575.37	575.13	574.94	574.63	574.38	574.19	573.72
1920	572.28	572.28	572.82	573.63	574.07	574.32	574.49	574.48	574.29	574.07	573.85	573.66
1921	573.69	572.60	573.69	574.26	574.52	574.50	574.40	574.14	573.92	573.70	573.47	573.49
1922	573.13	572.41	573.09	573.96	574.26	574.51	574.49	574.33	574.11	573.75	573.34	573.12
1923	572.73	572.38	572.60	573.09	573.48	573.76	573.74	573.51	573.33	573.10	572.85	572.73
1924	572.79	571.98	572.32	572.95	573.43	573.65	573.74	573.62	573.44	573.21	572.77	572.29
1925	571.85	571.51	572.19	572.50	572.47	572.54	572.54	572.43	572.24	571.96	571.81	571.49
1926	570.62	570.39	570.84	571.73	572.16	572.25	572.34	572.41	572.48	572.66	572.71	572.74
1927	571.68	571.37	572.08	572.85	573.18	573.46	573.58	573.43	573.20	573.01	572.97	573.24
1928	573.12	572.61	572.42	573.28	573.74	574.07	574.35	574.35	574.12	574.05	574.05	574.11
1929	574.34	574.67	574.60	575.48	576.05	576.12	576.10	575.75	575.36	574.94	574.75	574.47
1930	574.66	574.45	574.98	575.25	575.27	575.19	575.15	574.84	574.49	574.18	573.69	573.44
1931	572.89	571.77	571.69	572.91	573.15	573.32	573.35	573.13	572.95	572.79	572.60	572.59
1932	572.86	573.18	572.46	572.97	573.33	573.33	573.28	573.12	572.86	572.49	572.36	572.87
1933	572.65	572.15	572.48	573.09	573.39	573.56	573.35	573.06	572.68	572.38	572.06	572.21

TABLE G-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	571.20	571.17	571.17	572.10	572.19	572.24	572.26	572.10	571.99	571.79	571.61	571.78
1935	571.45	571.30	571.63	572.02	572.38	572.44	572.61	572.62	572.35	572.07	571.91	571.66
1936	570.91	571.07	571.64	572.19	572.44	572.57	572.51	572.35	572.31	572.14	571.95	571.82
1937	572.15	571.99	572.23	572.74	573.09	573.20	573.38	573.23	572.83	572.52	572.26	572.48
1938	571.79	572.27	572.35	573.23	573.42	573.57	573.65	573.62	573.41	573.14	572.84	572.68
1939	572.52	571.84	572.19	573.21	573.47	573.61	573.66	573.56	573.38	573.05	572.83	572.58
1940	571.75	571.36	571.63	572.62	572.95	573.33	573.42	573.31	573.24	572.99	572.78	572.82
1941	572.40	571.71	571.95	572.42	572.78	572.89	572.87	572.69	572.51	572.43	572.47	572.37
1942	572.02	570.99	572.08	573.25	573.57	573.91	573.95	573.83	573.62	573.35	573.30	573.38
1943	572.91	572.63	573.32	573.82	574.67	575.09	575.28	575.10	574.77	574.42	574.15	573.78
1944	572.50	572.55	572.88	573.90	574.30	574.48	574.41	574.13	573.92	573.69	573.42	573.29
1945	572.67	572.43	573.27	573.78	574.27	574.61	574.74	574.52	574.32	574.41	574.07	574.18
1946	573.45	572.88	573.73	573.95	574.09	574.50	574.52	574.23	573.83	573.53	573.27	573.05
1947	572.55	572.44	572.85	574.05	574.57	575.06	575.01	574.88	574.62	574.22	573.89	573.65
1948	573.42	573.17	573.72	574.25	574.67	574.65	574.57	574.28	573.89	573.34	573.08	572.99
1949	573.18	573.27	572.91	573.41	573.50	573.54	573.52	573.28	572.96	572.70	572.35	572.37
1950	572.83	572.91	573.08	573.99	574.00	574.00	573.98	573.80	573.71	573.52	573.33	573.60
1951	573.27	573.45	574.10	574.61	574.88	574.97	574.97	574.86	574.60	574.41	574.44	574.85
1952	575.10	575.13	575.32	575.69	575.79	575.81	575.76	575.63	575.43	574.84	574.41	574.33
1953	574.36	574.28	574.51	574.67	574.89	575.16	575.14	574.97	574.63	574.24	573.94	573.67
1954	572.87	572.83	573.83	574.44	574.69	574.76	574.73	574.54	574.39	574.56	574.60	574.45
1955	574.47	574.08	574.66	574.85	574.92	574.84	574.68	574.40	574.10	573.82	573.53	573.44
1956	572.24	571.71	572.87	573.62	574.46	574.47	574.43	574.45	574.21	573.72	573.28	573.08
1957	572.31	572.39	572.94	573.45	573.74	573.82	574.13	573.85	573.57	573.20	572.94	573.08
1958	572.15	571.70	572.41	572.37	572.81	572.90	573.07	573.01	572.82	572.54	572.15	572.14
1959	571.18	571.42	572.42	572.92	573.20	573.18	573.04	572.93	572.[illegible]	572.71	572.68	572.89
1960	572.84	572.48	572.84	573.60	573.94	574.37	574.39	574.35	574.10	573.66	573.31	573.28
1961	572.73	572.74	573.19	573.58	574.00	574.00	573.93	573.85	573.65	573.29	572.97	572.80
1962	572.50	571.75	572.79	573.06	573.18	573.32	573.23	573.11	572.86	572.66	572.47	572.38
1963	571.78	571.42	571.98	572.43	572.58	572.63	572.53	572.43	572.21	571.91	571.63	571.55
1964	570.80	570.66	571.23	571.76	572.04	572.07	572.04	571.96	571.77	571.41	571.19	571.18
1965	570.77	570.99	571.74	572.20	572.38	572.44	572.39	572.27	572.23	572.17	572.13	572.22
1966	572.20	572.05	572.52	572.92	573.13	573.24	573.16	573.01	572.73	572.29	572.29	572.72
1967	572.84	572.59	572.82	573.30	573.53	573.71	573.78	573.60	573.30	573.19	573.09	573.35

TABLE G-3 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	573.18	573.44	573.51	573.66	573.76	574.03	574.10	574.04	573.88	573.63	573.46	573.60
1969	573.66	573.74	573.70	574.20	574.64	574.95	575.16	575.01	574.54	574.17	573.97	573.77
1970	572.74	572.87	573.54	573.91	574.15	574.35	574.49	574.39	574.21	574.16	574.04	574.04
1971	573.98	573.86	574.30	574.53	574.60	574.80	574.73	574.65	574.59	574.54	574.23	574.17
1972	574.36	574.17	574.35	574.66	575.04	575.15	575.27	575.26	575.18	575.10	575.15	575.25
1973	575.34	575.19	575.64	575.95	576.11	576.44	576.40	576.20	575.87	575.52	575.29	575.24
1974	575.55	575.52	575.79	576.03	576.19	576.26	576.20	575.97	575.61	575.29	575.09	575.07
1975	575.21	575.23	575.38	575.62	575.66	575.85	575.77	575.67	575.64	575.25	574.93	574.96
1976	574.90	574.83	575.72	575.83	575.98	575.93	575.98	575.70	575.22	574.81	574.34	574.12

TABLE G-4

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	569.60	569.68	570.06	570.45	570.65	570.67	570.65	570.65	570.40	570.19	570.03	570.08
1901	569.98	569.64	569.55	569.91	569.94	570.35	570.53	570.43	570.38	570.07	569.92	569.91
1902	569.88	569.46	569.71	570.27	570.57	570.82	571.43	571.46	571.06	571.05	570.69	570.48
1903	570.42	570.46	570.96	571.66	571.66	571.62	571.58	571.36	571.22	570.90	570.49	570.26
1904	570.13	570.24	570.78	571.82	572.02	572.18	572.09	571.78	571.52	571.17	570.82	570.55
1905	570.29	569.99	569.95	570.61	571.18	571.68	571.74	571.60	571.37	571.08	570.77	570.76
1906	570.83	570.83	570.60	570.98	571.20	571.36	571.43	571.40	571.12	570.94	570.85	571.13
1907	571.50	571.19	570.97	571.34	571.49	571.85	571.89	571.64	571.40	571.32	571.08	570.97
1908	571.25	570.97	571.39	571.93	572.15	572.16	571.97	571.80	571.37	570.97	570.41	570.16
1909	570.15	570.20	570.49	570.76	571.54	571.86	571.68	571.45	571.04	570.51	570.35	570.22
1910	570.04	569.92	570.35	570.76	571.23	571.27	571.10	570.97	570.72	570.55	570.20	570.06
1911	569.79	569.75	569.71	570.17	570.42	570.50	570.35	570.20	570.10	570.07	569.83	570.13
1912	570.07	569.83	569.91	570.88	571.22	571.34	571.24	571.20	571.20	570.94	570.74	570.42
1913	571.06	571.30	571.24	572.71	572.61	572.43	572.17	571.83	571.35	571.02	570.90	570.89
1914	570.80	570.54	570.33	570.99	571.67	571.79	571.60	571.37	571.17	570.88	570.38	570.20
1915	570.00	570.12	570.19	570.18	570.36	570.53	570.73	570.99	570.93	570.74	570.33	570.21
1916	570.69	570.96	570.82	571.35	571.77	572.19	572.17	571.79	571.33	570.96	570.74	570.68
1917	570.76	570.49	570.65	571.60	571.93	572.44	572.76	572.47	572.16	571.81	571.83	571.47
1918	570.78	570.48	571.02	570.93	570.87	571.24	571.34	571.31	571.21	571.05	570.88	570.96
1919	570.95	570.98	571.22	571.80	572.37	572.49	572.21	571.93	571.58	571.28	571.07	570.73
1920	570.21	569.63	569.67	570.46	571.07	571.23	571.39	571.35	571.12	570.83	570.74	570.77
1921	570.80	570.72	570.86	571.50	571.77	571.68	571.54	571.20	570.92	570.58	570.53	570.61
1922	570.35	570.05	570.19	571.14	571.52	571.63	571.51	571.29	571.12	570.69	570.24	569.98
1923	570.04	569.70	569.83	570.29	570.63	570.86	570.81	570.52	570.29	569.99	569.74	569.99
1924	570.17	570.11	569.94	570.48	570.84	571.00	571.11	570.83	570.56	570.36	569.84	569.63
1925	569.46	569.29	569.67	570.00	569.98	569.83	569.77	569.72	569.56	569.24	569.13	569.08
1926	568.70	568.46	568.50	569.35	569.54	569.64	569.64	569.74	569.83	570.12	570.07	570.06
1927	569.71	569.52	569.70	570.25	570.51	570.77	570.75	570.62	570.31	570.02	569.90	570.56
1928	570.70	570.57	570.27	570.58	570.75	571.12	571.45	571.37	570.95	570.71	570.69	570.83
1929	570.93	571.00	571.45	572.39	573.03	572.99	572.92	572.56	572.15	571.75	571.66	571.65
1930	572.26	572.04	572.31	572.53	572.47	572.31	572.11	571.72	571.38	571.04	570.68	570.54
1931	570.33	569.98	569.65	570.00	570.32	570.48	570.51	570.33	570.06	569.82	569.62	569.66
1932	570.21	570.60	570.47	570.52	570.74	570.75	570.64	570.40	570.07	569.65	569.56	569.47
1933	569.79	569.75	569.88	570.46	570.85	570.85	570.61	570.31	569.91	569.58	569.18	569.14

A.G.I. ()

TABLE G-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	569.00	568.62	568.54	569.07	569.31	569.34	569.33	569.23	569.08	568.80	568.53	568.53
1935	568.61	568.45	568.72	569.08	569.41	569.62	569.71	569.74	569.37	569.04	568.94	568.89
1936	568.48	568.10	568.63	569.45	569.68	569.65	569.57	569.34	569.19	569.10	568.94	568.76
1937	569.38	569.99	569.86	570.18	570.73	570.86	571.11	570.88	570.31	569.79	569.48	569.28
1938	569.30	569.57	570.04	570.63	570.71	570.83	570.84	570.79	570.46	570.13	569.83	569.70
1939	569.62	569.56	569.87	570.41	570.72	570.77	570.74	570.62	570.27	569.93	569.71	569.55
1940	569.26	569.01	569.17	569.88	570.31	570.64	570.71	570.53	570.40	570.10	569.78	569.91
1941	570.22	569.81	569.60	569.80	569.94	570.07	570.00	569.81	569.54	569.30	569.22	569.23
1942	569.17	569.27	569.50	570.42	570.71	571.04	571.02	570.96	570.67	570.47	570.38	570.39
1943	570.66	570.40	570.56	571.01	571.83	572.42	572.43	572.18	571.75	571.34	571.10	570.80
1944	570.33	570.13	570.27	571.06	571.59	571.67	571.48	571.18	570.88	570.60	570.33	570.17
1945	569.99	569.70	570.42	571.10	571.45	571.87	571.94	571.69	571.34	571.53	571.22	571.01
1946	570.99	570.53	570.78	570.98	571.10	571.59	571.67	571.31	570.88	570.55	570.32	570.12
1947	570.11	570.10	569.99	571.12	571.88	572.48	572.28	572.04	571.75	571.25	570.91	570.76
1948	570.67	570.37	570.87	571.63	571.99	571.99	571.85	571.48	571.07	570.54	570.33	570.20
1949	570.38	570.68	570.85	570.94	571.00	570.95	570.82	570.52	570.15	569.90	569.54	569.51
1950	570.31	570.94	570.95	571.66	571.69	571.55	571.33	571.03	570.85	570.62	570.48	570.88
1951	570.93	570.96	571.56	572.01	572.22	572.19	572.05	571.75	571.38	571.10	571.07	571.25
1952	571.75	572.39	572.51	572.89	572.94	572.88	572.62	572.33	572.09	571.53	571.11	571.19
1953	571.32	571.37	571.58	571.82	572.00	572.21	572.03	571.83	571.41	571.00	570.71	570.58
1954	570.46	570.38	570.87	571.69	571.96	571.80	571.60	571.39	571.15	571.34	571.50	571.41
1955	571.70	571.46	572.00	572.25	572.25	572.05	571.77	571.57	571.14	570.90	570.63	570.55
1956	570.18	569.65	570.26	570.85	571.68	571.86	571.77	571.68	571.38	570.85	570.40	570.31
1957	570.17	570.11	570.29	570.95	571.27	571.32	571.54	571.15	570.79	570.38	570.09	570.23
1958	570.31	569.77	569.79	569.99	570.11	570.22	570.44	570.41	570.16	569.78	569.48	569.25
1959	569.12	569.48	569.87	570.43	570.76	570.69	570.44	570.18	569.85	569.77	569.67	569.91
1960	570.27	570.36	570.33	570.81	571.15	571.44	571.49	571.38	571.06	570.56	570.17	569.90
1961	569.75	569.70	570.36	570.90	571.60	571.53	571.34	571.22	570.93	570.40	570.01	569.87
1962	569.59	569.53	569.83	570.26	570.34	570.41	570.32	570.17	569.86	569.73	569.56	569.46
1963	569.17	568.84	569.13	569.83	569.99	569.95	569.75	569.42	569.32	568.98	568.73	568.54
1964	568.45	568.38	568.68	569.30	569.63	569.59	569.46	569.26	569.02	568.56	568.32	568.27
1965	568.50	568.67	569.22	569.57	569.83	569.81	569.67	569.50	569.37	569.18	569.10	569.22
1966	569.42	569.45	569.80	570.12	570.44	570.52	570.43	570.25	569.94	569.41	569.41	569.93
1967	569.94	569.98	570.03	570.57	570.92	570.92	570.93	570.72	570.38	570.22	570.17	570.38

A.G.I.

TABLE G-4 (CONTINUED)

LAKE ERIE MONTHLY MEAN ELEVATION (IGLD 1955)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	570.52	570.87	570.82	571.15	571.16	571.37	571.43	571.28	570.97	570.59	570.40	570.61
1969	570.72	571.08	570.95	571.53	572.04	572.32	572.50	572.26	571.70	571.23	570.92	570.96
1970	570.49	570.39	570.55	571.05	571.36	571.50	571.56	571.40	571.15	571.05	570.95	571.03
1971	570.93	570.89	571.42	571.60	571.67	571.82	571.66	571.50	571.49	571.58	571.19	571.14
1972	571.22	571.11	571.48	571.93	572.34	572.41	572.49	572.30	572.13	572.02	572.14	572.39
1973	572.49	572.47	572.77	573.30	573.33	573.60	573.49	573.20	572.74	572.38	572.10	572.14
1974	572.28	572.63	573.09	573.39	573.46	573.48	573.26	572.89	572.46	572.05	571.96	572.13
1975	572.28	572.41	572.81	572.85	572.90	573.00	572.83	572.64	572.68	572.33	572.03	572.02
1976	571.95	572.00	573.07	573.15	573.22	573.09	573.06	572.80	572.32	571.95	571.43	571.08

TABLE G-5

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	244.31	244.42	244.56	245.24	245.58	245.77	245.96	246.05	245.65	245.04	244.55	244.57
1901	244.15	243.88	243.86	245.16	245.64	245.74	245.55	245.22	244.84	244.21	243.72	243.76
1902	243.90	243.73	244.35	244.90	245.07	245.50	246.27	246.14	245.31	244.56	243.97	243.62
1903	243.59	243.83	244.56	245.44	245.31	245.20	245.45	245.36	244.88	244.29	243.71	243.36
1904	243.17	243.51	244.07	245.43	245.98	246.15	245.95	245.48	244.86	244.25	243.60	243.22
1905	243.31	243.13	243.32	244.46	245.18	245.74	245.99	245.78	245.14	244.38	243.78	243.64
1906	243.98	244.10	243.90	244.23	244.64	245.16	245.53	245.30	244.66	244.25	244.06	243.77
1907	244.23	244.23	243.99	244.43	244.85	245.27	245.45	245.32	244.77	244.39	244.08	243.79
1908	244.18	244.20	244.45	245.12	245.70	245.79	245.59	245.20	244.36	243.81	243.42	243.11
1909	243.08	243.36	243.77	244.44	245.61	245.78	245.55	245.20	244.57	243.92	243.57	243.47
1910	243.51	243.67	244.22	244.70	245.34	245.55	245.47	245.29	244.90	244.38	243.79	243.53
1911	243.46	243.59	243.70	244.36	245.14	245.59	245.76	245.51	245.23	244.98	244.59	244.36
1912	244.29	244.05	243.97	244.95	245.84	246.28	245.87	245.33	244.87	244.47	244.10	243.80
1913	244.23	244.52	244.38	245.40	245.59	245.65	245.43	245.05	244.48	243.99	243.75	243.60
1914	243.58	243.75	243.69	244.73	245.40	245.55	245.40	245.09	244.83	244.24	243.66	243.31
1915	243.34	243.72	244.00	244.17	244.67	245.01	245.17	245.57	245.29	244.70	243.93	243.56
1916	243.90	244.09	244.02	244.89	245.64	246.34	246.25	245.37	244.45	243.80	243.55	243.45
1917	243.56	243.66	244.03	245.17	245.38	245.80	246.13	245.72	244.97	244.34	244.09	243.75
1918	243.55	243.53	244.13	244.71	244.80	244.95	245.10	244.91	244.67	244.35	244.09	243.75
1919	243.88	243.84	243.90	244.47	245.42	246.00	245.65	245.06	244.47	243.97	243.67	243.47
1920	243.37	243.26	243.45	244.30	244.98	245.32	245.72	245.79	245.31	244.71	244.17	244.10
1921	244.18	244.04	244.26	244.73	245.05	245.16	245.14	244.83	244.46	244.14	243.89	243.76
1922	243.67	243.71	244.10	245.02	245.53	245.66	245.82	245.28	244.65	244.04	243.53	243.14
1923	243.19	243.23	243.64	244.58	245.31	246.05	246.07	245.72	245.27	244.76	244.42	244.36
1924	244.31	244.27	244.13	244.72	245.53	245.80	245.70	245.41	244.80	244.41	243.68	243.21
1925	242.96	243.05	243.95	244.47	244.65	244.75	244.72	244.55	244.24	243.87	243.82	243.76
1926	243.37	243.18	243.16	244.08	245.07	245.37	245.42	245.33	245.24	245.02	244.80	244.51
1927	244.09	243.83	243.96	244.24	244.44	244.98	245.26	245.23	244.79	244.42	244.11	244.52
1928	244.83	244.74	244.43	244.77	245.05	245.26	245.58	245.48	244.80	244.21	243.93	243.83
1929	243.93	244.17	244.34	245.42	246.21	246.16	245.82	245.27	244.65	244.11	243.77	243.62
1930	244.24	244.76	245.30	245.59	245.59	245.64	245.64	245.04	244.44	243.84	243.41	243.30
1931	243.28	243.27	243.45	244.12	244.84	245.48	245.56	245.34	245.01	244.62	244.33	244.20
1932	244.64	245.05	244.96	245.39	245.69	245.67	245.73	245.68	245.22	244.79	244.63	244.33
1933	244.35	244.26	244.39	245.34	245.91	245.96	245.86	245.56	245.21	244.64	244.10	243.95

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TABLE G-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	243.99	243.89	243.86	244.55	245.17	245.33	245.39	245.01	244.65	244.30	243.80	243.50
1935	243.42	243.32	243.42	243.84	244.34	244.85	245.26	245.08	244.64	244.16	243.87	243.61
1936	243.33	242.95	243.42	245.07	245.58	245.50	245.29	244.86	244.53	244.25	244.08	243.76
1937	244.09	244.53	244.47	244.72	245.55	246.04	246.09	245.70	245.04	244.51	244.38	244.06
1938	243.90	244.31	244.63	245.09	245.22	245.38	245.46	245.56	245.28	244.80	244.07	243.69
1939	243.58	243.65	244.15	245.02	245.55	245.49	245.55	245.51	245.13	244.72	244.22	243.89
1940	243.68	243.42	243.40	244.38	245.58	246.02	245.95	245.46	244.87	244.49	244.12	244.09
1941	244.35	244.21	243.99	244.51	244.99	245.15	245.18	245.00	244.65	244.28	244.10	243.94
1942	243.92	243.93	244.43	245.35	245.65	245.89	245.72	245.54	245.00	244.46	244.12	243.87
1943	244.17	244.27	244.43	244.93	245.88	246.61	246.22	245.62	244.81	244.08	243.87	243.52
1944	243.38	243.38	243.50	244.26	245.19	245.57	245.61	245.14	244.62	244.03	243.55	243.45
1945	243.52	243.62	244.36	245.32	245.85	246.16	246.02	245.48	244.84	244.84	244.34	243.98
1946	244.05	244.02	244.17	244.09	244.15	244.73	244.98	244.82	244.39	244.09	243.88	243.56
1947	243.74	244.08	243.97	244.94	245.81	246.73	246.55	245.97	245.01	244.06	243.60	243.48
1948	243.56	243.52	244.00	245.06	245.50	245.64	245.43	245.02	244.45	243.89	243.69	243.55
1949	243.76	244.10	244.39	244.80	245.02	245.11	245.16	244.83	244.47	244.15	243.67	243.48
1950	244.13	244.61	244.69	245.70	245.81	245.70	245.54	245.26	244.83	244.32	244.02	244.05
1951	244.20	244.38	244.87	245.74	246.06	245.83	245.73	245.19	244.63	244.03	243.73	243.77
1952	244.19	244.78	245.08	245.81	245.97	245.99	245.65	245.17	244.60	244.01	243.55	243.66
1953	243.83	244.03	244.21	244.84	245.39	245.73	245.48	245.15	244.64	244.00	243.54	243.57
1954	243.58	243.86	244.60	245.26	245.89	245.76	245.43	244.93	244.60	244.41	244.24	243.93
1955	244.24	244.15	244.60	245.38	245.44	245.27	245.03	244.80	244.33	244.19	244.10	243.59
1956	243.43	243.38	243.71	244.44	245.46	245.72	245.42	244.99	244.67	244.03	243.53	243.45
1957	243.54	243.76	244.02	244.44	244.98	245.55	245.92	245.44	244.85	244.14	243.75	243.64
1958	243.88	243.94	244.26	245.02	245.73	246.08	246.13	246.02	245.84	245.34	244.73	244.27
1959	244.09	244.30	244.62	245.56	245.91	245.81	245.63	245.24	244.78	244.45	244.22	244.35
1960	244.48	244.57	244.50	245.27	246.05	246.11	245.70	245.16	244.50	243.92	243.54	243.11
1961	242.81	242.58	243.35	244.29	245.25	245.65	245.62	245.11	244.60	243.94	243.49	243.31
1962	243.15	243.13	243.39	244.41	245.19	245.46	245.37	245.30	244.89	244.71	244.40	244.26
1963	243.84	243.49	243.44	244.53	245.46	245.82	245.69	245.56	245.08	244.51	244.11	243.89
1964	243.53	243.35	243.38	244.11	244.84	245.23	245.25	244.97	244.55	243.87	243.22	242.73
1965	242.47	242.38	242.69	243.23	244.03	244.33	244.51	244.32	244.10	243.81	243.72	243.94
1966	243.91	243.78	244.15	244.40	244.60	244.98	244.96	244.69	244.37	243.91	243.65	243.93
1967	244.07	244.19	244.11	244.91	245.60	246.10	246.30	246.04	245.46	245.04	244.87	244.54

TABLE G-5 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN ELEVATION (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	244.37	244.30	244.09	244.61	244.72	245.20	245.47	245.23	244.87	244.25	243.90	243.99
1969	243.96	244.17	243.94	244.64	245.39	245.84	245.72	245.29	244.52	243.90	243.70	243.69
1970	243.61	243.72	243.79	244.50	245.13	245.35	245.55	245.30	244.75	244.41	244.14	244.05
1971	243.94	243.92	244.27	244.87	245.39	245.33	245.18	244.88	244.69	244.24	243.77	243.71
1972	243.87	243.94	244.13	244.93	245.82	245.97	246.20	245.76	244.88	244.19	244.07	244.30
1973	244.81	245.42	245.83	246.68	246.77	246.74	246.34	245.69	244.90	244.37	244.00	244.05
1974	244.54	245.04	245.38	245.93	246.28	246.36	246.10	245.50	244.72	244.07	243.82	243.99
1975	244.29	244.62	245.08	245.60	245.77	245.87	245.57	245.13	244.83	244.45	244.18	243.97
1976	244.17	244.48	245.55	246.29	246.62	246.66	246.52	246.03	245.18	244.56	243.95	243.62

TABLE G-6

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN.	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	83	82	82	82	114	114	110	116	122	123	121	83
1901	82	81	81	81	99	86	102	116	96	82	109	70
1902	70	70	70	70	80	81	81	70	67	70	86	70
1903	70	70	70	70	81	100	91	99	92	92	95	70
1904	70	70	70	70	70	70	70	67	77	92	115	70
1905	70	70	70	70	89	87	88	97	118	117	112	77
1906	76	76	75	75	85	82	87	82	82	82	82	70
1907	70	70	70	70	81	86	87	83	117	117	114	67
1908	67	67	67	67	70	77	87	104	71	70	55	67
1909	67	67	67	67	70	76	67	77	77	70	81	76
1910	76	75	75	75	75	70	67	55	55	55	55	55
1911	55	55	55	55	55	67	67	81	90	93	55	67
1912	67	67	67	67	84	76	76	70	70	55	55	55
1913	55	55	55	55	81	81	82	88	92	116	115	77
1914	76	76	75	75	80	81	82	82	77	82	67	70
1915	70	70	69	69	75	76	89	86	76	103	113	86
1916	86	85	84	85	105	118	120	120	120	120	117	77
1917	76	76	76	76	81	76	95	55	71	71	55	67
1918	67	67	67	67	70	90	70	71	71	55	82	82
1919	82	81	80	80	100	90	67	55	55	55	55	55
1920	55	55	55	55	102	102	105	116	87	55	55	67
1921	67	67	67	67	81	81	76	76	67	55	55	55
1922	55	55	55	55	67	55	55	55	55	55	55	55
1923	55	55	55	55	67	55	55	55	55	55	55	55
1924	55	55	55	55	55	55	55	55	55	55	55	55
1925	55	55	55	55	67	55	55	55	55	55	55	55
1926	55	55	55	55	55	55	55	55	55	75	87	67
1927	67	67	67	67	99	108	110	114	113	109	110	67
1928	67	67	67	67	85	81	95	103	117	118	117	77
1929	76	76	76	76	103	90	67	82	55	55	55	67
1930	67	67	67	67	76	76	102	82	71	70	55	67
1931	67	67	67	67	69	70	67	70	55	55	70	70
1932	70	70	69	69	79	84	76	89	95	67	55	67
1933	67	67	67	67	74	75	70	70	67	70	75	67

TABLE G-6 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	67	67	67	67	82	90	84	80	75	104	107	84
1935	83	82	82	82	92	87	92	103	97	80	106	70
1936	69	69	69	69	95	103	102	88	88	70	55	55
1937	55	55	55	55	95	101	92	103	104	88	94	70
1938	69	69	69	70	94	96	105	100	100	90	93	76
1939	75	75	75	75	95	104	112	114	115	111	95	67
1940	67	67	67	67	69	75	89	80	67	55	55	55
1941	55	55	55	55	83	80	88	80	85	111	110	70
1942	70	70	69	70	80	89	76	81	81	70	99	70
1943	70	70	70	70	80	87	117	115	110	70	55	67
1944	67	67	67	67	75	81	96	109	117	115	90	76
1945	75	75	75	76	106	100	87	87	96	82	55	70
1946	70	70	70	70	89	81	82	82	77	95	112	76
1947	75	75	75	75	80	81	102	87	92	87	67	67
1948	67	67	67	67	88	76	70	70	76	55	55	67
1949	67	67	67	67	75	80	81	96	85	76	105	70
1950	69	69	69	69	75	103	112	116	116	115	114	86
1951	85	84	85	85	103	107	118	118	119	119	117	77
1952	77	76	76	76	104	91	106	115	109	82	55	55
1953	55	55	55	55	100	112	119	120	119	112	82	67
1954	67	67	67	67	94	109	117	116	77	70	55	55
1955	55	55	55	55	86	81	76	82	87	86	94	76
1956	75	75	75	74	70	70	70	70	67	55	55	67
1957	67	67	67	67	83	75	76	76	70	55	55	67
1958	67	67	67	67	74	67	70	70	75	80	70	70
1959	69	69	69	69	69	75	75	70	93	110	108	67
1960	67	67	67	67	75	81	70	70	55	55	55	67
1961	67	67	67	67	84	85	76	70	55	55	55	67
1962	67	67	67	67	75	80	70	70	67	70	55	55
1963	55	55	55	55	88	79	91	80	75	70	55	67
1964	67	67	67	67	85	96	99	95	103	106	104	74
1965	74	74	74	74	78	92	87	84	88	97	99	80
1966	79	79	79	79	93	96	88	85	102	85	106	67
1967	67	67	67	67	90	80	81	76	81	55	67	67

TABLE G-6 (CONTINUED)

LAKE SUPERIOR MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	67	67	67	67	84	81	101	117	119	119	117	82
1969	82	81	81	81	109	105	96	82	92	82	55	67
1970	67	67	67	67	85	100	96	99	82	71	99	82
1971	81	81	81	81	110	117	118	117	88	83	112	82
1972	81	81	81	81	104	107	88	117	120	112	82	70
1973	70	70	70	70	104	103	104	101	93	71	55	67
1974	67	67	67	67	102	99	106	107	105	77	55	77
1975	77	77	76	76	104	102	103	87	55	55	55	67
1976	67	67	67	67	106	91	96	55	55	55	55	55

TABLE G-7

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	149	142	141	181	186	190	195	200	204	205	205	197
1901	173	134	165	139	202	212	213	215	211	208	203	195
1902	155	160	193	194	195	199	198	200	199	194	193	188
1903	146	144	180	186	191	195	197	201	204	205	202	192
1904	163	158	164	192	201	208	210	211	210	209	206	197
1905	133	147	171	203	203	207	211	212	213	210	208	204
1906	202	159	180	209	210	212	212	210	208	204	201	186
1907	158	149	178	200	203	206	208	209	209	206	203	200
1908	146	139	172	195	202	209	214	213	210	204	199	194
1909	176	128	158	192	195	200	203	203	202	198	192	182
1910	147	148	186	191	193	196	197	195	194	191	188	174
1911	140	136	175	178	186	190	191	189	188	187	188	182
1912	142	149	165	174	187	197	199	202	202	201	199	198
1913	189	150	169	181	193	203	207	208	208	206	205	200
1914	166	164	175	197	195	200	205	204	203	200	197	184
1915	142	162	178	190	188	191	192	191	192	191	191	188
1916	174	151	157	192	199	208	214	214	213	213	212	205
1917	174	172	205	204	206	211	217	219	217	211	204	174
1918	151	169	184	170	224	227	226	223	217	213	210	206
1919	197	193	194	197	208	212	214	210	207	205	202	199
1920	135	146	182	203	208	209	211	211	212	208	202	196
1921	194	146	187	191	200	202	201	201	201	198	193	189
1922	155	149	178	192	201	203	207	207	203	199	195	190
1923	148	148	163	182	191	194	195	195	193	192	187	179
1924	157	128	143	171	180	183	185	189	190	185	181	160
1925	143	140	154	172	172	172	174	172	168	165	161	159
1926	115	122	133	156	164	171	174	173	170	165	166	166
1927	123	132	153	173	180	186	188	189	188	188	187	180
1928	151	128	148	191	197	201	203	206	209	211	215	210
1929	181	177	205	209	218	229	230	231	227	222	215	190
1930	167	176	199	197	202	210	215	215	210	203	199	191
1931	160	124	138	187	188	188	187	184	182	182	181	176
1932	170	169	146	173	173	178	179	180	179	178	174	160
1933	164	130	159	162	172	178	182	180	178	175	173	160

A.G. 119

TABLE G-7 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	122	135	145	167	174	176	177	174	174	174	175	169
1935	141	155	163	173	175	180	182	180	179	177	176	149
1936	139	143	161	173	177	181	181	182	181	181	176	171
1937	164	126	161	159	163	169	169	170	174	174	174	165
1938	139	155	143	178	183	188	191	192	192	190	186	181
1939	167	142	149	179	185	192	196	197	196	194	190	185
1940	132	148	156	174	176	179	183	186	186	183	180	177
1941	145	132	159	174	181	182	182	181	181	186	189	188
1942	154	112	168	186	190	194	197	195	192	192	189	183
1943	146	153	171	191	189	198	206	211	211	208	204	196
1944	148	166	171	193	192	196	200	201	201	200	197	190
1945	153	165	184	183	187	193	198	200	200	195	196	187
1946	165	155	194	200	202	200	201	199	198	195	191	186
1947	153	149	178	176	186	190	198	200	200	201	199	188
1948	170	164	176	185	187	192	194	193	190	185	182	178
1949	173	161	150	172	176	181	185	185	182	177	175	168
1950	155	135	143	160	171	179	186	191	190	189	187	179
1951	154	156	177	186	196	200	206	212	214	216	217	209
1952	202	196	199	207	214	220	226	231	228	222	216	209
1953	205	197	199	199	207	210	215	217	216	213	208	199
1954	167	154	190	190	196	205	212	214	212	211	211	205
1955	190	179	188	192	198	202	202	200	194	190	190	183
1956	140	140	167	180	178	186	189	191	189	187	185	179
1957	145	155	173	170	173	180	181	184	182	182	180	176
1958	142	131	166	165	176	175	174	173	172	171	169	158
1959	116	129	152	156	168	172	175	178	180	179	180	175
1960	163	143	164	175	190	198	204	205	203	199	197	179
1961	167	175	177	177	175	179	184	184	185	187	186	178
1962	152	144	174	180	185	188	188	187	186	181	175	164
1963	142	131	154	162	168	171	174	175	174	172	168	158
1964	136	130	149	152	155	159	162	163	164	164	162	157
1965	133	133	145	155	164	169	170	171	174	177	176	170
1966	167	159	167	176	178	179	180	179	176	174	172	169
1967	166	153	167	172	180	186	190	189	188	184	183	178

A.G. 20

TABLE G-7 (CONTINUED)

LAKE MICHIGAN-HURON MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	162	158	174	175	182	185	189	192	197	197	195	186
1969	160	175	183	185	190	197	203	205	204	202	200	189
1970	143	161	186	189	195	200	205	206	207	206	203	197
1971	182	174	191	202	210	212	216	217	213	208	206	197
1972	191	183	188	192	203	208	210	216	220	218	212	205
1973	201	190	199	209	220	226	230	232	231	227	222	211
1974	199	199	202	206	215	224	230	231	230	226	220	211
1975	199	195	192	205	215	220	224	223	218	212	208	203
1976	166	174	194	208	215	221	221	218	213	205	200	181

TABLE G-8

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	153	148	149	185	189	193	198	203	204	204	205	197
1901	177	153	171	137	189	207	213	216	211	208	204	200
1902	155	166	188	189	195	201	208	204	202	196	193	196
1903	157	148	188	193	199	203	206	205	206	205	205	211
1904	171	178	171	203	208	209	212	214	211	210	208	204
1905	142	165	186	199	205	211	217	218	215	213	211	206
1906	202	158	181	197	212	217	218	213	210	206	204	186
1907	176	157	183	202	209	207	211	213	212	209	205	203
1908	155	157	183	201	210	215	218	218	211	210	202	194
1909	182	138	158	197	202	202	205	203	202	201	199	184
1910	168	150	179	195	200	200	198	196	194	193	192	179
1911	140	144	171	177	187	191	191	190	189	189	191	185
1912	146	150	170	182	197	201	204	205	205	205	204	202
1913	190	152	170	194	204	205	208	209	209	208	208	200
1914	176	169	176	192	200	202	206	209	206	202	201	197
1915	144	169	170	187	194	194	196	196	195	192	192	190
1916	187	161	155	191	208	207	213	217	215	215	213	214
1917	167	174	203	209	214	215	219	223	215	215	209	177
1918	162	177	178	190	230	229	230	226	222	215	215	209
1919	210	197	204	211	216	217	215	216	213	211	209	198
1920	142	153	186	203	203	210	212	213	212	211	204	194
1921	192	143	192	197	201	203	203	202	201	202	193	192
1922	170	155	183	189	196	205	208	208	204	201	197	193
1923	159	151	168	184	190	196	196	196	195	194	190	174
1924	166	131	161	168	181	186	186	190	191	187	184	168
1925	153	142	160	165	166	174	176	173	170	167	164	152
1926	122	121	139	154	166	167	171	171	171	170	174	172
1927	128	132	156	174	181	185	191	188	188	189	191	182
1928	169	148	152	183	198	202	203	206	210	214	215	213
1929	192	179	213	226	232	237	238	234	228	222	216	198
1930	177	183	203	209	212	214	220	218	212	210	198	192
1931	163	131	139	185	186	188	188	184	185	185	183	182
1932	171	176	147	169	180	179	181	181	180	178	175	173
1933	169	149	164	170	179	187	185	182	178	175	174	161

TABLE G-8 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	132	135	155	170	175	177	177	174	174	173	174	172
1935	148	164	161	172	180	176	181	180	180	178	174	149
1936	147	146	159	169	175	181	181	181	184	179	176	171
1937	170	134	159	171	169	169	168	170	171	174	173	162
1938	144	162	158	179	185	188	191	191	193	191	187	183
1939	165	152	157	185	187	192	195	195	197	193	191	184
1940	142	149	155	172	177	183	185	186	187	185	186	184
1941	153	137	153	170	181	182	183	181	182	185	190	185
1942	160	120	165	187	192	197	199	196	196	190	191	188
1943	161	157	183	193	205	205	214	214	214	211	206	195
1944	155	164	174	195	196	202	205	202	202	201	197	197
1945	158	164	184	188	199	201	205	203	205	204	198	193
1946	174	166	197	200	203	206	204	202	198	195	191	188
1947	165	152	181	199	199	201	206	208	206	204	200	192
1948	181	174	191	192	200	199	200	199	194	187	182	180
1949	183	179	156	176	178	182	186	185	182	179	175	175
1950	171	150	158	178	177	183	190	192	194	193	188	185
1951	161	169	188	196	202	207	213	218	218	218	220	222
1952	217	208	213	218	221	225	232	235	234	224	218	212
1953	206	202	207	206	210	216	222	221	218	213	209	201
1954	168	168	198	199	202	211	217	215	216	217	214	208
1955	200	188	199	199	203	206	208	202	202	197	193	189
1956	149	143	175	190	201	194	196	200	199	194	189	182
1957	151	156	175	177	180	182	190	190	189	186	183	181
1958	139	137	169	161	177	178	178	176	176	175	168	165
1959	123	132	164	165	173	174	176	180	182	183	185	184
1960	173	153	168	190	194	205	204	206	205	201	197	180
1961	170	180	182	186	181	183	187	187	188	189	188	182
1962	153	149	182	184	186	190	189	189	187	182	179	167
1963	146	133	161	169	171	174	176	176	176	173	169	162
1964	142	133	154	157	159	161	164	167	166	165	163	160
1965	140	144	155	167	167	170	172	172	175	178	179	179
1966	171	165	174	182	181	183	182	181	179	176	176	179
1967	172	159	177	184	182	191	194	193	191	191	188	190

A.G. 2.3

TABLE G-8 (CONTINUED)

LAKE ST. CLAIR MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	168	174	185	181	185	191	192	195	198	199	197	194
1969	168	187	190	193	196	201	205	207	204	202	203	192
1970	150	163	190	197	197	202	206	207	207	208	205	203
1971	184	181	202	207	208	212	215	216	214	208	207	201
1972	196	186	199	202	205	208	212	218	220	220	218	214
1973	212	197	220	215	222	230	232	233	233	228	227	219
1974	213	211	215	216	222	225	230	232	230	224	222	215
1975	207	205	205	216	216	222	224	227	223	216	211	208
1976	169	191	212	215	220	223	227	222	215	208	204	184

TABLE G-9

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	182	183	192	198	207	206	202	203	200	196	194	195
1901	190	182	181	187	193	200	200	199	199	194	192	192
1902	187	178	185	194	206	209	219	221	213	214	208	204
1903	198	199	210	224	229	226	222	218	217	211	204	199
1904	192	194	207	227	236	239	233	227	223	217	210	205
1905	196	189	189	202	218	228	225	223	220	215	209	210
1906	207	206	203	209	219	221	219	219	215	212	211	217
1907	221	214	210	217	225	231	229	224	220	220	216	214
1908	216	209	219	230	239	238	230	228	220	212	202	197
1909	193	193	201	205	224	231	224	220	213	203	201	198
1910	191	188	198	205	219	219	212	210	206	204	197	195
1911	186	184	185	192	203	203	196	194	193	194	190	196
1912	191	186	189	207	219	220	215	215	216	212	209	202
1913	212	216	216	247	249	244	235	228	219	214	212	212
1914	206	200	197	210	229	230	222	219	216	210	201	198
1915	190	192	194	193	201	203	204	211	211	208	200	198
1916	204	209	207	217	231	239	235	228	219	212	209	208
1917	206	199	204	222	235	244	248	243	237	230	232	225
1918	206	199	212	208	212	218	217	217	217	214	212	214
1919	210	209	216	227	244	245	236	231	224	219	216	209
1920	194	182	184	199	216	218	218	218	215	209	209	210
1921	206	204	208	220	231	228	221	215	210	204	204	206
1922	197	190	194	213	226	227	220	217	214	207	198	194
1923	191	183	187	195	207	210	206	201	197	192	188	194
1924	193	191	189	199	211	213	212	207	203	200	190	186
1925	179	175	184	189	193	189	184	184	182	177	176	175
1926	164	159	161	176	185	185	182	185	188	195	195	195
1927	184	179	184	194	204	208	204	203	198	193	191	205
1928	204	201	196	201	209	216	219	218	211	207	208	211
1929	209	210	221	240	259	256	251	244	237	229	228	228
1930	238	232	239	243	246	241	233	226	220	214	207	205
1931	197	189	193	189	200	202	199	197	192	189	186	187
1932	194	202	200	200	209	208	202	198	193	185	184	183
1933	186	184	188	198	211	210	201	196	189	184	177	177

TABLE G-9 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	170	162	162	170	180	179	175	174	173	168	164	165
1935	162	158	165	170	182	185	183	185	179	173	172	172
1936	160	152	163	178	187	185	180	177	175	174	172	169
1937	177	189	188	193	209	210	212	208	198	188	183	179
1938	176	180	191	202	208	209	206	206	201	195	190	188
1939	182	180	188	197	209	208	204	203	197	191	188	185
1940	175	169	174	187	200	206	203	201	199	194	189	192
1941	194	185	182	185	193	194	189	186	182	178	178	178
1942	173	174	180	198	209	214	210	210	205	202	201	202
1943	204	197	202	210	232	244	240	236	228	220	216	210
1944	197	192	196	211	227	227	220	214	210	205	200	197
1945	190	183	199	212	224	232	230	225	220	224	219	215
1946	210	200	207	209	217	226	224	217	209	204	200	196
1947	192	191	190	212	234	245	237	233	228	218	212	210
1948	204	197	208	223	236	234	228	221	214	203	200	198
1949	198	203	208	208	215	212	206	201	194	190	184	184
1950	196	209	210	224	229	225	217	211	209	205	203	212
1951	209	209	223	231	241	239	232	227	220	215	216	220
1952	227	240	244	251	257	254	245	239	235	224	216	219
1953	218	218	224	227	236	239	232	228	221	213	208	206
1954	199	197	209	225	235	230	222	219	215	220	225	223
1955	225	220	233	237	242	236	226	223	215	211	206	205
1956	194	182	196	207	229	232	226	225	220	210	202	200
1957	193	192	196	209	220	220	221	214	208	200	195	199
1958	196	184	186	189	196	197	198	198	195	188	183	179
1959	172	179	188	198	210	207	198	194	188	188	187	192
1960	195	197	197	206	218	223	220	219	213	204	197	192
1961	185	183	198	208	228	224	217	215	211	201	194	191
1962	182	180	187	194	201	201	195	193	188	187	185	183
1963	173	166	173	186	194	191	184	182	178	172	168	165
1964	159	157	164	175	186	184	178	175	172	164	160	160
1965	160	163	175	180	190	189	182	180	179	176	176	178
1966	178	178	186	191	203	203	198	195	190	180	182	193
1967	189	189	191	201	213	211	208	205	199	197	197	202

A.G. 26

TABLE G-9 (CONTINUED)

LAKE ERIE MONTHLY MEAN OUTFLOW (1000 CFS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	201	207	207	213	218	221	219	217	211	204	202	206
1969	205	212	210	221	237	242	242	238	227	218	213	214
1970	200	197	202	211	222	224	222	219	215	214	213	215
1971	209	208	220	222	229	231	224	221	222	225	218	218
1972	215	212	221	230	244	244	242	239	236	235	239	245
1973	243	242	250	260	266	270	264	259	250	243	238	239
1974	238	245	257	262	269	268	259	252	244	236	235	239
1975	238	240	251	250	256	257	249	246	249	242	236	237
1976	231	231	256	257	263	259	254	250	241	233	223	216

A.C. 27

TABLE G-10

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	208	212	227	230	241	213	217	220	244	245	229	252
1901	227	218	198	240	254	256	254	240	240	238	221	220
1902	219	208	225	242	226	216	255	291	286	272	254	227
1903	209	228	252	282	273	251	254	266	274	264	243	213
1904	203	212	229	273	292	299	301	297	290	274	243	209
1905	203	205	196	214	226	251	276	290	290	273	253	232
1906	224	252	243	234	226	226	247	261	258	250	258	252
1907	226	261	251	251	242	242	252	268	268	268	270	256
1908	226	260	264	286	294	299	292	291	266	247	224	209
1909	203	210	222	226	265	277	275	274	260	243	222	212
1910	203	207	226	233	245	247	244	252	257	253	238	212
1911	203	210	210	194	202	212	220	223	223	224	235	237
1912	229	227	222	238	264	286	281	273	267	266	267	260
1913	226	269	261	295	287	288	275	268	262	251	246	231
1914	210	230	221	242	257	260	258	252	260	253	234	213
1915	203	218	229	203	195	212	220	238	270	265	249	216
1916	222	244	242	256	274	300	310	299	272	244	221	212
1917	203	218	226	258	265	272	295	304	298	282	282	256
1918	218	226	256	268	254	240	245	249	256	260	270	254
1919	223	251	251	256	272	301	297	288	270	255	245	215
1920	203	209	201	202	202	217	220	252	269	264	257	260
1921	227	250	256	262	255	244	239	237	232	228	230	232
1922	210	216	229	247	268	263	280	272	265	248	223	208
1923	203	200	196	198	198	228	240	238	243	226	223	236
1924	228	233	226	224	241	253	257	262	253	254	232	209
1925	203	200	216	231	218	213	217	220	221	216	217	233
1926	203	200	196	188	202	209	216	220	226	258	266	270
1927	226	238	241	239	217	216	218	232	236	238	236	269
1928	234	272	264	261	249	238	254	270	272	256	254	256
1929	223	257	259	285	310	316	310	298	282	270	256	241
1930	226	272	284	306	294	281	283	273	263	247	220	209
1931	203	200	196	188	194	216	222	222	223	218	212	206
1932	215	253	254	255	255	238	226	231	230	219	228	224
1933	216	212	202	218	242	231	221	221	222	215	204	203

A.G. 28

TABLE G-10 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	203	200	196	188	188	193	200	201	202	203	205	205
1935	203	200	196	188	188	193	205	210	209	203	205	203
1936	203	200	196	205	223	216	212	211	212	206	204	203
1937	205	234	237	210	228	222	250	252	240	221	228	218
1938	203	218	238	248	239	217	221	223	238	256	236	210
1939	203	200	210	230	248	236	220	220	222	222	212	205
1940	203	200	196	188	206	248	256	255	232	232	218	220
1941	230	232	220	194	192	204	210	214	216	208	204	203
1942	203	200	208	242	242	255	238	254	252	246	245	242
1943	227	250	256	262	281	313	312	312	292	264	262	232
1944	203	217	217	222	241	252	266	261	254	241	222	211
1945	203	200	222	260	276	288	292	291	276	293	296	279
1946	225	256	258	257	229	227	237	243	244	241	248	222
1947	218	247	240	258	280	314	316	326	309	270	241	222
1948	212	224	235	266	278	282	272	264	256	240	229	214
1949	214	234	244	248	240	221	220	222	223	222	214	206
1950	209	240	244	274	279	266	256	258	257	249	251	260
1951	227	261	274	300	310	299	293	280	273	259	248	252
1952	226	272	279	306	313	308	294	284	277	264	230	238
1953	222	248	249	262	264	278	270	270	262	249	226	220
1954	204	222	251	267	292	241	270	254	254	257	274	272
1955	227	259	266	298	292	272	256	255	252	251	274	242
1956	208	218	234	245	269	284	278	268	268	254	230	210
1957	204	223	228	226	216	220	253	260	252	234	218	210
1958	207	202	198	192	195	212	218	220	228	247	239	212
1959	203	203	223	250	260	256	242	221	221	220	216	232
1960	232	244	245	252	278	286	280	262	248	231	221	209
1961	203	200	196	200	242	256	264	258	252	232	220	209
1962	203	200	196	189	197	211	214	220	220	219	214	218
1963	203	200	196	188	192	206	209	214	213	204	205	205
1964	203	200	196	188	188	196	201	203	205	203	203	203
1965	203	200	196	188	188	193	202	206	209	204	203	217
1966	222	219	233	231	208	211	216	218	220	212	204	210
1967	204	222	206	210	210	216	234	248	247	256	271	272

TABLE G-10 (CONTINUED)

LAKE ONTARIO MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	259	250	258	234	232	246	254	262	254	248	262
1969	224	258	249	256	267	282	292	290	272	251	240	239
1970	215	231	230	234	242	242	253	262	258	260	264	272
1971	224	252	260	273	282	269	260	258	263	261	253	246
1972	222	249	254	265	292	300	316	323	311	289	283	299
1973	234	280	294	332	334	334	328	318	305	293	279	280
1974	231	279	286	321	328	330	327	319	301	281	258	276
1975	228	269	278	310	306	299	290	284	286	297	296	275
1976	226	265	288	328	332	333	332	327	317	304	278	242

TABLE G-11

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1900	208	212	227	230	241	213	217	220	244	245	229	252
1901	227	218	198	240	254	256	254	240	249	238	221	220
1902	219	208	225	242	226	216	255	291	286	272	254	227
1903	209	228	252	282	273	251	254	266	274	264	243	213
1904	203	212	229	273	292	299	301	297	290	274	243	209
1905	203	205	196	214	226	251	276	290	290	273	253	232
1906	224	252	243	234	226	226	247	261	258	250	258	252
1907	226	261	251	251	242	242	252	268	268	268	270	256
1908	226	260	264	286	294	299	292	291	266	247	224	209
1909	203	210	222	226	265	277	275	274	260	243	222	212
1910	203	207	226	233	245	247	244	252	257	253	238	212
1911	203	210	210	194	202	212	220	223	223	224	235	237
1912	229	227	222	238	264	286	281	273	267	266	267	260
1913	226	269	261	295	287	288	275	268	262	251	246	231
1914	210	230	221	242	257	260	258	252	260	253	234	213
1915	203	218	229	203	195	212	220	238	270	265	249	216
1916	222	244	242	256	274	300	310	299	272	244	221	212
1917	203	218	226	258	265	272	295	304	298	282	282	256
1918	218	226	256	268	254	240	245	249	256	260	270	254
1919	223	251	251	256	272	301	297	288	270	255	245	215
1920	203	209	201	202	202	217	220	252	269	264	257	260
1921	227	250	256	262	255	244	239	237	232	228	230	232
1922	210	216	229	247	268	263	280	272	265	248	223	208
1923	203	200	196	198	198	228	240	238	243	226	223	236
1924	228	233	226	224	241	253	257	262	253	254	232	209
1925	203	200	216	231	218	213	217	220	221	216	217	233
1926	203	200	196	188	202	209	216	220	226	258	266	270
1927	226	238	241	239	217	216	218	232	236	238	236	269
1928	234	272	264	261	249	238	254	270	272	256	254	256
1929	223	257	259	285	310	316	310	298	282	270	256	241
1930	226	272	284	306	294	281	283	273	263	247	220	209
1931	203	200	196	188	194	216	222	222	223	218	212	206
1932	215	253	254	255	255	238	226	231	230	219	228	224
1933	216	212	202	218	242	231	221	221	222	215	204	203

TABLE G-11 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1934	203	200	196	188	188	193	200	201	202	203	203	203
1935	203	200	196	188	188	193	205	210	209	203	203	203
1936	203	200	196	205	223	216	212	211	212	206	204	203
1937	205	234	237	210	228	222	250	252	240	221	228	218
1938	203	218	238	248	239	217	221	223	238	256	236	210
1939	203	208	210	230	248	236	220	220	222	222	212	205
1940	203	200	196	188	206	248	256	255	232	232	218	220
1941	230	232	220	194	192	204	210	214	216	208	204	203
1942	203	200	208	242	242	255	238	254	252	246	245	242
1943	227	250	256	262	281	313	312	312	292	264	262	232
1944	203	217	217	222	241	252	266	261	254	241	222	211
1945	203	200	222	260	276	288	292	291	276	293	296	279
1946	225	256	258	257	229	227	237	243	244	241	248	222
1947	218	247	240	258	280	314	316	326	309	270	241	222
1948	212	224	235	266	278	282	272	264	256	240	229	214
1949	214	234	244	248	240	221	220	222	223	222	214	206
1950	209	240	244	274	279	266	256	254	257	249	251	260
1951	227	261	274	300	310	299	293	280	273	259	248	252
1952	226	272	279	306	313	308	294	284	277	264	230	238
1953	222	248	249	262	264	278	270	270	262	249	226	220
1954	204	222	251	267	292	281	270	254	254	257	274	272
1955	227	259	266	298	292	272	256	255	252	251	274	242
1956	208	218	234	245	269	284	278	268	268	254	230	210
1957	204	223	228	226	216	220	253	260	252	234	218	210
1958	207	202	198	192	195	212	218	220	228	247	239	212
1959	203	203	223	250	260	256	242	221	221	220	216	232
1960	232	244	245	252	278	286	280	262	248	231	221	209
1961	203	200	196	200	242	256	264	258	252	232	220	209
1962	203	200	196	189	197	211	214	220	220	219	214	218
1963	203	200	196	188	192	206	209	214	213	204	203	203
1964	203	200	196	188	188	196	201	203	205	203	203	203
1965	203	200	196	188	188	193	202	206	209	204	203	217
1966	222	219	233	231	208	211	216	218	220	212	204	210
1967	204	222	206	210	210	216	234	248	247	256	271	272

A.G. 32

TABLE G-11 (CONTINUED)

LAKE ST. LOUIS MONTHLY MEAN OUTFLOW (WITH DEVIATIONS)
ADJUSTED BASE CASE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1968	230	259	250	258	234	232	246	254	262	254	248	262
1969	224	258	249	256	267	282	292	290	272	251	240	239
1970	215	231	230	234	242	242	253	262	258	260	264	272
1971	224	252	260	273	282	269	260	254	263	261	253	246
1972	222	249	254	265	292	300	316	323	311	289	283	299
1973	234	280	294	332	334	334	328	318	305	293	279	280
1974	231	279	286	321	328	330	327	319	301	281	258	276
1975	228	269	278	310	306	299	290	284	286	297	296	275
1976	226	265	288	328	332	333	332	327	317	304	278	242


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—8