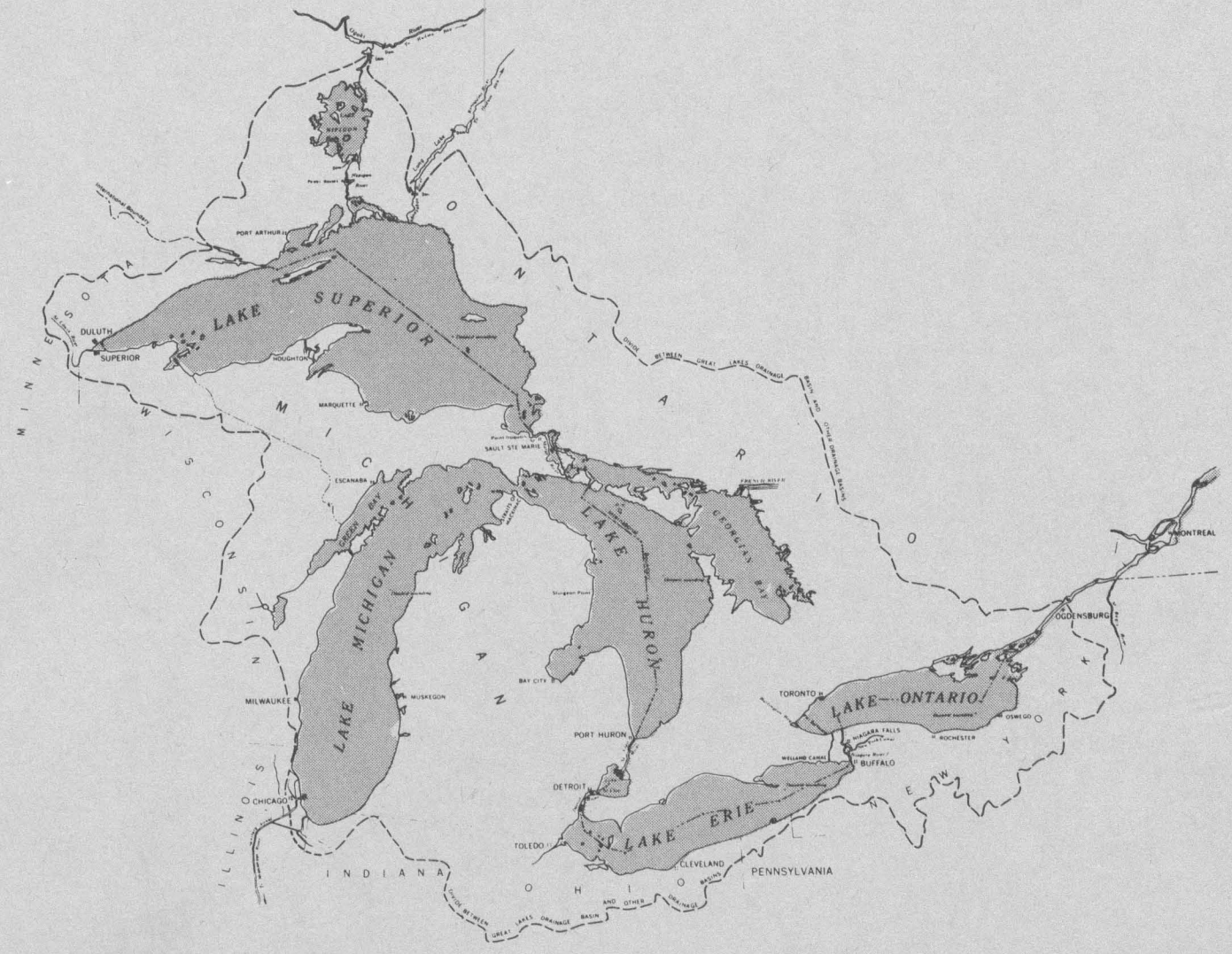
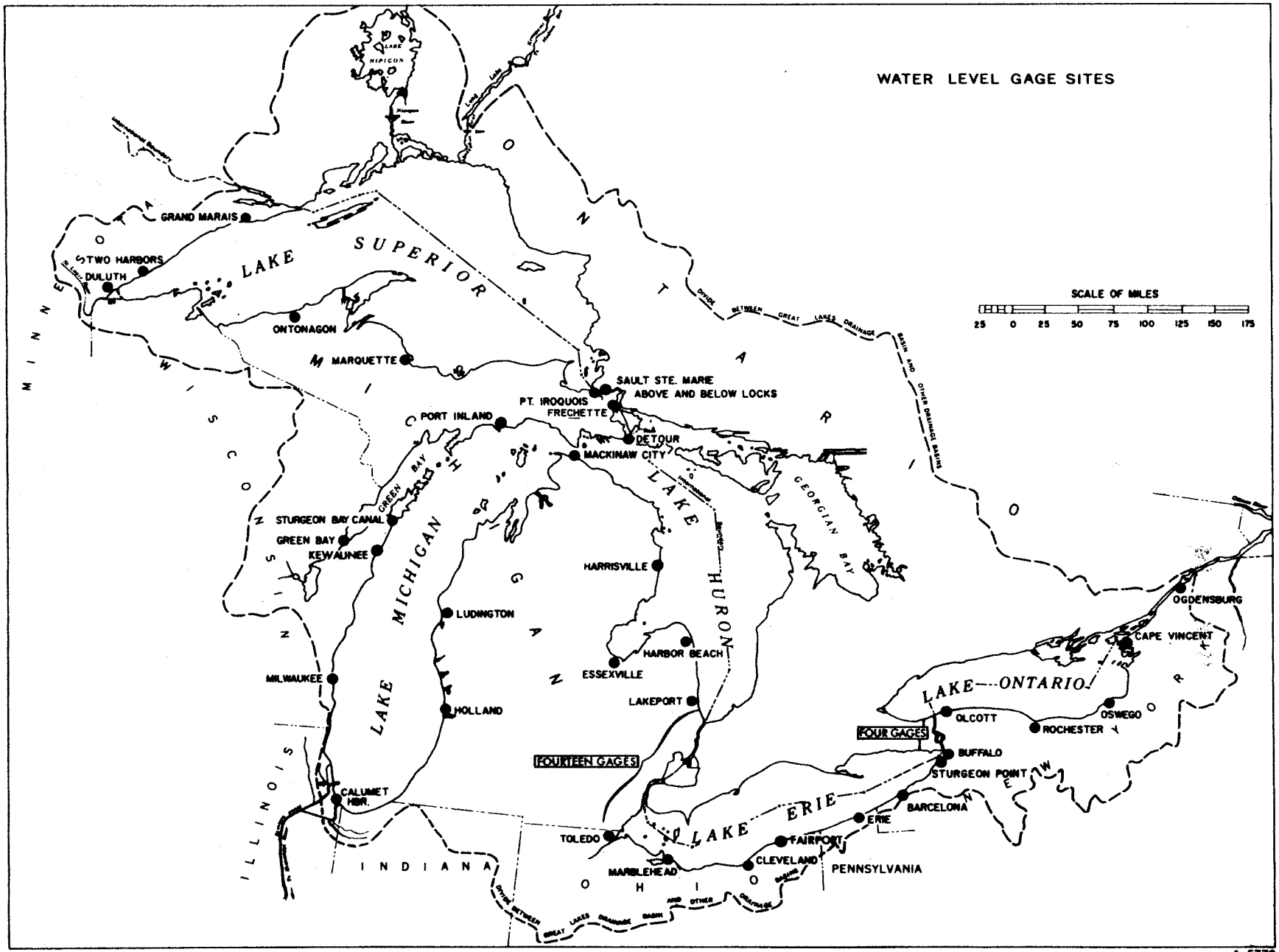
Great Lakes Water Levels, 1981

U.S. DEPARTMENT OF COMMERCE, National Oceanic and Atmospheric Administration, National Ocean Survey




WATER LEVEL GAGE SITES
SCALE OF MILES
25 0 25 50 75 100 125 150 175
LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
LAKE ERIE
LAKE ONTARIO
GEORGIAN BAY
GREEN BAY
GRAND MARAIS
TWO HARBORS
DULUTH
ONTONAGON
MARQUETTE
SAULT STE. MARIE
ABOVE AND BELOW LOCKS
PT. IROQUOIS
FRECHETTE
PORT INLAND
DETOUR
MACKINAW CITY
STURGEON BAY CANAL
GREEN BAY
KEWAUNEE
HARRISVILLE
LUDINGTON
HARBOR BEACH
ESSEXVILLE
MILWAUKEE
LAKEPORT
HOLLAND
FOURTEEN GAGES
CALUMET HBR.
TOLEDO
MARBLEHEAD
FAIRPORT
CLEVELAND
ERIE
BARCELONA
STURGEON POINT
BUFFALO
FOUR GAGES
OLCOTT
ROCHESTER
OSWEGO
CAPE VINCENT
OGDENSBURG
MINNESOTA
WISCONSIN
ILLINOIS
INDIANA
OHIO
PENNSYLVANIA
ONTARIO
DIVIDE BETWEEN GREAT LAKES DRAINAGE BASIN AND OTHER DRAINAGE BASINS
A-5772

GREAT LAKES WATER LEVELS

1981

Daily and Monthly Average Water Surface Elevations

I N T R O D U C T I O N

GENERAL: This annual publication contains Great Lakes water level gage records in both feet and meters. The publication shows, in tabular form for the calendar year, daily and monthly average levels for each gage in the network, the highest and lowest daily average level for each month, a frequency distrubution of daily average levels showing the number of times each month the recorded levels were at, or above, specific elevations, and monthly average level stages for each lake from 1900 to the present. The gages record water levels in either analog or digital form on strip charts retained by the National Ocean Survey. Recorded hourly values are used to compute the daily averages, and the monthly values are derived from the daily averages. The original data is in feet. The converted metric data is less precise than the feet data (1 cm vs. 0.01 ft.); therefore, data reconverted to feet will often disagree with the original data.

The location of the recording water level gages is shown on the preceding page. An index on the following pages lists the gage locations, identification numbers, and geographic coordinates.

A separate publication, printed every five years, shows monthly and annual averages and highest and lowest monthly averages for the period of record (latest issue: Great Lakess Water Levels, 1860-1980). A hydrograph depicting master control gage data for each lake is available free of charge by writing: Distribution Division, C44, National Ocean Survey, Riverdale, Maryland 20840.

DATUM OF REFERENCE: All tabulated elevations are referred to the International Great Lakes Datum (1955). An explanation of the datum can be obtained by writing: National Ocean Survey, C234, 6001 Executive Boulevard, Rockville, Maryland 20852.

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STATION NUMBER AND LOCATION	LATITUDE NORTH	LONGITUDE WEST	PAGE FEET	PAGE METERS
ST. LAWRENCE RIVER				
1030 Ogdensburg, New York	44 42 10	75 29 40	1	117
2000 Cape Vincent, New York	44 07 45	76 20 15	3	119
LAKE ONTARIO (CHART DATUM 242.8)				
2030 OSWEGO, NEW YORK	43 27 51	76 30 42	5	121
2058 Rochester, New York	43 16 10	77 37 34	7	123
2076 Olcott, New York	43 20 17	78 43 39	9	125
NIAGARA RIVER				
3007 Ashland Avenue, Niagara Falls, New York	43 06 00	79 03 35	11	127
3009 American Falls, Niagara Falls, New York	43 04 54	79 03 42	13	129
3012 Niagara Intake, Niagara Falls, New York	43 04 40	79 00 55	15	131
3117 Ontario Street, Buffalo, New York	42 56 35	78 54 37	17	133
LAKE ERIE (CHART DATUM 568.6)				
3020 Buffalo, New York	42 52 39	78 53 27	19	135
3028 Sturgeon Point, New York	42 41 27	79 02 52	21	137
3032 Barcelona, New York	42 20 35	79 35 50	23	139
3038 Erie, Pennsylvania	42 09 15	80 04 32	25	141
3053 Fairport, Ohio	41 45 00	81 17 00	27	143
3063 CLEVELAND, OHIO	41 32 27	81 38 08	29	145
3079 Marblehead, Ohio	41 32 40	82 43 53	31	147
3085 Toledo, Ohio	41 41 36	83 28 20	33	149
3087 Monroe, Michigan	41 53 54	83 21 42	35	151
3090 Fermi Power Plant, Stony Point, Michigan	41 57 35	83 15 30	37	153

NOTE: Locations shown in CAPITAL letters are master gages.

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STATION NUMBER AND LOCATION	LATITUDE NORTH	LONGITUDE WEST	PAGE FEET	PAGE METERS
DETROIT RIVER				
4020 Gibraltar, Michigan	42 05 30	83 11 10	39	155
4030 Wyandotte, Michigan	42 12 12	83 08 50	41	157
4036 Fort Wayne, Detroit, Michigan	42 17 53	83 05 34	43	159
4049 Windmill Point, Detroit, Michigan	42 21 26	82 55 45	45	161
LAKE ST. CLAIR (CHART DATUM 571.7)				
4052 ST. CLAIR SHORES, MICHIGAN	42 28 24	82 52 45	47	163
ST. CLAIR RIVER				
4070 Algonac, Michigan	42 37 15	82 31 37	49	165
4080 St. Clair S.P., St. Clair, Michigan	42 48 45	82 29 09	51	167
4084 Marysville, Michigan	42 54 22	82 27 58	53	169
4087 Dry Dock, Port Huron, Michigan	42 56 43	82 26 37	55	171
4090 Mouth of the Black River, Port Huron, MI	42 58 25	82 25 16	57	173
4096 Dunn Paper Company, Port Huron, MI	43 00 12	82 25 20	59	175
4098 Fort Gratiot, Port Huron, MI	43 00 23	82 25 21	61	177
LAKE HURON (CHART DATUM 576.8)				
5002 Lakeport, Michigan	43 08 30	82 29 35	63	179
5014 HARBOR BEACH, MICHIGAN	43 50 45	82 38 38	65	181
5035 Essexville, Michigan	43 38 29	83 50 48	67	183
5059 Harrisville, Michigan	44 39 34	83 17 11	69	185
5080 Mackinaw City, Michigan	45 46 40	84 43 10	71	187
5099 DeTour Village, Michigan	45 59 30	83 53 48	73	189

NOTE: Locations shown in CAPITAL letters are master gages.

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STATION NUMBER AND LOCATION	LATITUDE NORTH	LONGITUDE WEST	PAGE FEET	PAGE METERS
ST. MARY'S RIVER				
6050 Frechette Point, Michigan	46 27 40	84 17 10	75	191
6060 U.S. Slip below locks, Sault Ste. Marie, MI	46 30 03	84 20 24	77	193
6070 S.W. Pier above locks, Sault Ste. Marie, MI	46 30 05	84 22 21	79	195
LAKE MICHIGAN (CHART DATUM 576.8)				
7023 Ludington, Michigan	43 56 48	86 26 30	81	197
7031 Holland, Michigan	42 46 05	86 12 06	83	199
7044 Calumet Harbor, S. Chicago, Illinois	41 43 48	87 32 18	85	201
7057 Milwaukee, Wisconsin	43 00 05	87 53 13	87	203
7068 Kewaunee, Wisconsin	44 27 48	87 30 00	89	205
7072 Sturgeon Bay Canal, Wisconsin	44 47 40	87 18 48	91	207
7078 Green Bay, Wisconsin	44 32 27	88 00 30	93	209
7079 Green Bay, Wisconsin	44 32 27	88 00 30	95	211
7096 Port Inland, Michigan	45 58 10	85 52 20	97	213
LAKE SUPERIOR (CHART DATUM 600.0)				
9004 POINT IROQUOIS, Michigan	46 29 06	84 37 52	99	215
9018 Marquette, Michigan	46 32 42	87 22 42	101	217
9044 Ontonagon, Michigan	46 52 40	89 19 15	103	219
9064 Duluth, Minnesota	46 46 32	92 05 34	105	221
9070 Two Harbors, Minnesota	47 01 03	91 40 30	107	223
9090 Grand Marais, Minnesota	47 44 53	90 20 30	109	225
Lake Ontario Stages at Oswego, New York			110	226
Lake Erie Stages at Cleveland, Ohio			111	227
Lake St. Clair Stages at St. Clair Shores, Michigan			112	228
Lakes Huron-Michigan Stages at Harbor Beach, Michigan			113	229
Lake Superior Stages at Marquette, Michigan			114	230

NOTE: Locations shown in CAPITAL letters are master gages.

ANNUAL SUMMARY OF LEVELS, 1981

Station 1030: Ogdensburg, New York on St. Lawrence River

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST

Monthly mean elevation:	244.72	Jul
Daily mean elevation:	244.99	26 Jun
Instant/hourly Elevation:	245.32	0700/26 Jun

LOWEST

Monthly mean elevation:	243.02	Jan
Daily mean elevation:	242.57	10 Feb
Instant/hourly Elevation:	242.39	2200/10 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
243.50	2 Jan
244.12	28 Feb
244.23	1 Mar
244.24	26 Apr
244.58	13 May
244.99	26 Jun
244.95	8 Jul
244.73	12 Aug
244.63	10 Sep
244.36	7 Oct
244.05	27 Nov
243.77	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
242.74	29 Jan
242.57	10 Feb
243.66	5 Mar
243.43	12 Apr
244.01	6 May
244.45	2 Jun
244.33	28 Jul
244.14	28 Aug
243.81	17 Sep
243.38	22 Oct
243.39	15 Nov
242.68	27 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
						4	9						244.80	13
244.80						11	17	10	1				244.60	52
244.60					12	12	4	13	4				244.40	97
244.40			2	1	8		1	5	12	1			244.20	127
244.20		2	5	10	11			3	8	3	2		244.00	171
244.00		1	14	16					5	7	5		243.80	219
243.80		2	10	2						13	14	2	243.60	262
243.60	1			1						6	7	6	243.40	283
243.40	9	3								1	2	13	243.20	311
243.20	4	1										5	243.00	321
243.00	11	10										4	242.80	346
242.80	6	8										1	242.60	361
242.60		1											242.40	362
242.40														

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 1030: Ogdensburg, New York on St. Lawrence River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	243.25	242.73	244.23	243.83	244.01	244.51	244.57	244.64	244.22	243.78	243.79	243.53
2	243.50	242.96	244.21	244.00	244.08	244.45	244.61	244.68	244.25	243.92	243.82	243.77
3	243.24	242.90	244.00	243.90	244.11	244.47	244.73	244.64	244.22	243.96	243.77	243.68
4	243.34	242.89	243.86	243.90	244.07	244.57	244.78	244.59	244.19	244.05	243.76	243.58
5	243.24	242.82	243.66	244.06	244.09	244.58	244.76	244.60	244.23	243.90	243.72	243.48
6	243.21	242.78	243.93	243.99	244.01	244.69	244.84	244.58	244.23	244.05	243.89	243.44
7	243.39	242.70	243.95	243.91	244.14	244.59	244.84	244.45	244.24	244.36	243.84	243.41
8	243.27	242.74	243.93	243.84	244.16	244.56	244.95	244.38	244.43	244.00	243.88	243.29
9	243.18	242.84	244.00	243.89	244.16	244.68	244.94	244.62	244.38	243.87	243.76	243.38
10	243.25	242.57	244.02	243.85	244.03	244.66	244.90	244.62	244.63	243.77	243.68	243.35
11	243.25	242.90	243.97	243.83	244.09	244.73	244.90	244.67	244.41	243.71	243.76	243.36
12	243.11	242.95	244.03	243.43	244.42	244.62	244.85	244.73	244.41	243.59	243.61	243.30
13	242.94	242.75	244.16	243.61	244.58	244.55	244.86	244.66	244.46	243.65	243.72	243.36
14	242.88	242.74	244.00	244.18	244.42	244.54	244.76	244.56	244.35	243.67	243.57	243.34
15	242.80	242.71	244.13	243.91	244.23	244.60	244.76	244.63	244.26	243.74	243.39	243.27
16	242.84	242.79	243.83	244.14	244.39	244.69*	244.81	244.62	244.01	243.72	243.41	243.39
17	242.92	242.89	244.02	243.94	244.36	/	244.78	244.56	243.81	243.64	243.58	243.20
18	243.01	242.93	244.00	244.01	244.44	/	244.71	244.56	244.12	243.94	243.69	243.10
19	243.06	242.98	243.85	243.96	244.49	/	244.66	244.54	244.24	244.14	243.65	243.14
20	242.87	243.03	243.75	243.88	244.45	244.50*	244.69	244.46	244.16	243.99	243.42	243.24
21	242.84	243.30	243.79	243.91	244.50	244.56	244.70	244.48	244.09	243.70	243.77	243.36
22	242.95	243.33	243.77	243.86	244.40	244.78	244.66	244.42	243.86	243.38	243.85	243.28
23	242.91	243.40	243.76	243.73	244.34	244.87	244.63	244.50	243.86	243.61	243.74	243.01
24	242.84	243.64	243.80	244.01	244.41	244.79	244.59	244.42	243.96	243.69	243.59	243.50
25	242.76	243.80	243.77	244.11	244.40	244.92	244.65	244.19	244.05	243.64	243.56	243.33
26	242.87	243.89	243.78	244.24	244.45	244.99	244.67	244.30	243.99	243.54	243.40	242.96
27	242.90	244.03	243.74	244.18	244.35	244.87	244.58	244.30	244.25	243.49	244.05	242.68
28	242.75	244.12	243.80	244.10	244.36	244.79	244.33	244.14	244.33	243.47	244.01	243.05
29	242.74		243.97	244.11	244.43	244.80	244.45	244.19	244.16	243.49	243.71	242.95
30	242.78		243.85	244.18	244.54	244.76	244.63	244.25	244.04	243.56	243.60	242.96
31	242.77		243.89		244.55		244.67	244.23		243.65		242.86
MEAN	243.02	243.08	243.92	243.95	244.31	244.67	244.72	244.49	244.19	243.76	243.70	243.28
MAX.	243.84	244.32	244.46	244.82	244.79	245.32	245.09	244.83	244.92	244.98	244.37	243.92
	1800/02	2300/28	1800/17	1700/14	1500/13	0700/26	1500/08	1700/12	1000/10	2000/06	1100/27	0100/03
MIN.	242.63	242.39	243.51	243.32	243.76	244.32	243.89	244.07	243.65	243.27	243.10	242.47
	0200/29	2200/10	0900/16	1400/12	2200/10	2400/01	1900/28	0500/29	1700/17	0300/28	0900/20	1500/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 243.92

ANNUAL SUMMARY OF LEVELS, 1981

Station 2000: Cape Vincent, New York on St. Lawrence River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	245.56	Jul	243.80	Jan
Daily mean elevation:	245.68	11 Jul	243.49	10 Feb
Instant/hourly Elevation:	245.98	1700/22 Jun	243.35	1400/10 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
244.07	7 Jan
244.59	28 Feb
244.83	13 Mar
244.81	30 Apr
245.25	31 May
245.61	26 Jun
245.68	11 Jul
245.61	15 Aug
245.58	10 Sep
245.34	8 Oct
244.95	26 Nov
244.88	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
243.60	31 Jan
243.49	10 Feb
244.55	26 Mar
244.44	12 Apr
244.75	1 May
245.16	2 Jun
245.36	28 Jul
245.23	28 Aug
245.08	30 Sep
244.58	19 Oct
244.43	21 Nov
244.08	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
245.60						1	10	1					245.60	12
245.40						8	20	15	7				245.40	62
245.20					1	18	1	8	14	4			245.20	108
245.00					17	3			9	2			245.00	139
244.80			2	2	5					4	10	1	244.80	163
244.60			18	19	8					11	14	2	244.60	235
244.40		4	11	9						1	3	8	244.40	271
244.20		1										18	244.20	290
244.00	2	3										2	244.00	297
243.80	13	1											243.80	311
243.60	15	14											243.60	340
243.40	1	5											243.40	346

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2000: Cape Vincent, New York on St. Lawrence River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	243.78	243.59	244.66	244.60	244.75	245.18	245.49	245.50	245.26	244.98	244.73	244.88
2	244.01	243.80	244.73	244.69	244.80	245.16	245.50	245.49*	245.32	245.15	244.74	244.67
3	243.81	243.70	244.65	244.61	244.78	245.19	245.54	/	245.28	245.22	244.79	244.75
4	243.93	243.76	244.60	244.62	244.78	245.26	245.56	/	245.27	245.25	244.81	244.59
5	243.93	243.65	244.57	244.67	244.79	245.25	245.57	/	245.34	245.31	244.80	244.52
6	243.96	243.66	244.71	244.71	244.80	245.31	245.61	/	245.36	244.71	244.73*	244.53
7	244.07	243.55	244.70	244.60	244.85	245.26	245.61	/	245.35	244.80*	/	244.44
8	243.93	243.63	244.72	244.59	244.80	245.22	245.65*	/	245.46	245.34*	/	244.34
9	243.95	243.65	244.74	244.66	244.81	245.33	245.65	/	245.42	/	/	244.32
10	243.95	243.49	244.73	244.59	244.76	245.30	245.67	245.52*	245.58	/	244.78*	244.37
11	243.88	243.76	244.74	244.60	244.87	245.34	245.68	245.59	245.42	/	244.77	244.38
12	243.82	243.68	244.73	244.44	245.02	245.30	245.64	245.60	245.49	/	244.82	244.39
13	243.78	243.64	244.83	244.49	245.04	245.26	245.65	245.57	245.46	/	244.76	244.42
14	243.77	243.63	244.73	244.79	244.97	245.31	245.58	245.51	245.42	244.81*	244.83	244.42
15	243.72	243.58	244.75	244.63	244.98	245.32	245.61	245.61	245.35	244.80	244.90	244.43
16	243.78	243.58*	244.65	244.66	245.05	245.36	245.61	245.59	245.21	244.79*	244.82	244.37
17	243.82	243.72*	244.81	244.61	245.04	245.40	245.58	245.51	245.16	/	244.77	244.55
18	243.87	243.72	244.68	244.76	245.08	245.36	245.56	245.50	245.26	/	244.70	244.35
19	243.88	243.77	244.65	244.64	245.09	245.38	245.52	245.51	245.29	244.58*	244.80	244.23
20	243.71	243.87	244.60	244.64	245.08	245.37	245.58	245.47	245.22	244.73	244.68	244.23
21	243.72	244.05	244.64	244.63	245.11	245.36	245.58	245.46	245.17	244.90	244.43	244.14
22	243.83	244.03	244.59	244.59	245.10	245.56	245.56	245.43	245.11	245.01	244.47	244.22
23	243.74	244.14	244.60	244.59	245.09	245.57	245.50	245.47	245.10	244.90*	244.71	244.25
24	243.69	244.27	244.61	244.73	245.12	245.50	245.47	245.40	245.13	/	244.82	244.08
25	243.66	244.41	244.59	244.77	245.11	245.59	245.50	245.31	245.13	/	244.83	244.22
26	243.74	244.41	244.55	244.79	245.12	245.61	245.50	245.31	245.12	244.65*	244.95	244.40
27	243.70	244.45	244.59	244.77	245.08	245.56	245.47	245.30	245.24	244.65	244.48	244.37
28	243.61	244.59	244.56	244.72	245.12	245.52	245.36	245.23	245.27	244.63	244.70	244.25
29	243.62		244.57	244.81	245.15	245.54	245.53	245.26	245.16	244.64	244.84	244.22
30	243.63		244.60	244.81	245.20	245.53	245.51	245.29	245.08	244.73	244.89	244.26
31	243.60		244.61		245.25		245.52	245.28		244.76		244.31
MEAN	243.80	243.85	244.66	244.66	244.99	245.37	245.56	245.45	245.28	244.88	244.75	244.38
MAX.	244.36	244.80	245.23	245.30	245.34	245.98	245.81	245.76	245.80	245.44	245.08	245.11
	1500/02	2000/28	1400/17	1400/14	1800/31	1700/22	1700/09	2100/15	1300/10	0900/06	1500/26	0800/01
MIN.	243.52	243.35	244.43	244.31	244.65	245.06	245.08	245.18	244.93	243.62	244.26	243.81
	2300/31	1400/10	0800/30	0100/12	1900/10	0200/02	1600/28	1700/30	1400/23	1700/06	0700/27	2400/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 244.80

ANNUAL SUMMARY OF LEVELS, 1981
Station 2030: Oswego, New York on Lake Ontario

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	245.56	Jul	243.94	Feb
Daily mean elevation:	245.72	16 Aug	243.52	10 Feb
Instant/hourly Elevation:	245.83	2400/10 Jul	243.29	2300/10 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
244.29	2 Jan
244.59	28 Feb
244.89	17 Mar
244.86	29 Apr
245.28	31 May
245.61	26 Jun
245.71	14 Jul
245.72	16 Aug
245.54	9 Sep
245.37	7 Oct
245.06	7 Nov
244.76	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
243.77	31 Jan
243.52	10 Feb
244.59	29 Mar
244.54	13 Apr
244.83	9 May
245.20	2 Jun
245.40	28 Jul
245.18	31 Aug
245.11	26 Sep
244.61	25 Oct
244.64	26 Nov
244.02	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
245.60						1	10	3					245.60	14
245.40						10	20	21	7				245.40	72
245.20					2	18	1	5	16	1			245.20	115
245.00					16	1		2	7	8	1		245.00	150
244.80			7	4	13					8	12		244.80	194
244.60			23	23						14	17	8	244.60	279
244.40		4	1	3								8	244.40	295
244.20	2	1										9	244.20	307
244.00	9	3										6	244.00	325
243.80	17	6											243.80	348
243.60	3	13											243.60	364
243.40		1											243.40	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2030: Oswego, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	243.99	243.61	244.71	244.58	244.87	245.25	245.53	245.50	245.14	245.03	244.76	244.53
2	244.29	243.90	244.78	244.70	244.87	245.20	245.52	245.48	245.12	245.20	244.82	244.64
3	244.07	243.90	244.80	244.62	244.85	245.23	245.53	245.53	245.17	245.20	244.80	244.66
4	244.17	243.84	244.70	244.60	244.85	245.26	245.54	245.51	245.17	245.08	244.79	244.64
5	244.12	243.78	244.74	244.69	244.84	245.24	245.54	245.59	245.26	245.01	244.76	244.68
6	243.99	243.73	244.81	244.78	244.92	245.32	245.56	245.56	245.32	245.06	244.95	244.76
7	244.25	243.66	244.84	244.64	244.89	245.29	245.57	245.50	245.30	245.37	245.06	244.56
8	244.16	243.75	244.79	244.61	244.86	245.21	245.61	245.52	245.43	245.17	244.86	244.64
9	244.03	243.79	244.80	244.68	244.83	245.32	245.64	245.51	245.54	245.05	244.88	244.73
10	244.17	243.52	244.79	244.64	244.86	245.30	245.69	245.50	245.45	244.98	244.77	244.66
11	244.09	243.77	244.82	244.65	244.91	245.33	245.68	245.56	245.45	244.94	244.85	244.58
12	243.98	243.92	244.78	244.63	245.00	245.32	245.61	245.60	245.50	244.90	244.77	244.52
13	243.95	243.73	244.85	244.54	245.01	245.29	245.64	245.60	245.42	244.84	244.73	244.47
14	243.94	243.75	244.89	244.68	244.98	245.31	245.71	245.54	245.44	244.80	244.73	244.37
15	243.92	243.71	244.78	244.73	245.04	245.30	245.67	245.58	245.40	244.80	244.73	244.42
16	243.94	243.71	244.85	244.63	245.09	245.34	245.61	245.72	245.30	244.90	244.74	244.57
17	243.97	243.74	244.89	244.62	245.10	245.41	245.56	245.69	245.24	244.77	244.77	244.39
18	244.04	243.77	244.80	244.79	245.11	245.37	245.55	245.62	245.24	244.75	244.89	244.34
19	244.02	243.84	244.73	244.70	245.10	245.40	245.51	245.54	245.23	244.97	244.78	244.42
20	243.89	244.00	244.71	244.77	245.10	245.42	245.51	245.49	245.28	244.74	244.71	244.39
21	243.87	244.13	244.75	244.72	245.12	245.40	245.62	245.46	245.23	244.79	244.93	244.17
22	243.95	244.13	244.69	244.67	245.14	245.49	245.59	245.42	245.31	244.78	244.93	244.19
23	243.92	244.16	244.68	244.64	245.13	245.57	245.57	245.42	245.39	244.82	244.84	244.32
24	243.86	244.32	244.69	244.81	245.13	245.51	245.48	245.46	245.36	244.79	244.77	244.36
25	243.80	244.50	244.67	244.86	245.13	245.55	245.44	245.37	245.25	244.61	244.76	244.26
26	243.80	244.55	244.64	244.80	245.13	245.61	245.45	245.34	245.11	244.65	244.64	244.19
27	243.84	244.54	244.68	244.80	245.14	245.56	245.45	245.32	245.18	244.73	244.88	244.14
28	243.82	244.59	244.63	244.79	245.20	245.52	245.40	245.27	245.38	244.85	244.93	244.22
29	243.81		244.59	244.86	245.20	245.49	245.57	245.21	245.24	244.76	244.82	244.30
30	243.84		244.62	244.84	245.24	245.53	245.53	245.18	245.15	244.72	244.68	244.19
31	243.77		244.66		245.28		245.53	245.18		244.69		244.02
MEAN	243.98	243.94	244.75	244.70	245.03	245.38	245.56	245.48	245.30	244.90	244.81	244.43
MAX.	244.57	244.83	245.20	245.06	245.40	245.76	245.83	245.81	245.68	245.50	245.20	244.91
	1400/02	2400/28	1600/17	1900/14	0300/31	2200/22	2400/10	1100/16	1500/08	0400/07	0400/07	1600/06
MIN.	243.62	243.29	244.47	244.28	244.73	244.86	245.16	245.08	244.98	244.48	244.32	243.68
	1900/25	2300/10	0700/30	0500/14	2300/03	2400/08	1300/28	0400/30	1900/26	0800/18	1000/20	0600/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 244.86

ANNUAL SUMMARY OF LEVELS, 1981

Station 2058: Rochester, New York on Lake Ontario

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	245.60	Jul	243.95	Feb
Daily mean elevation:	245.73	16 Aug	243.66	10 Feb
Instant/hourly Elevation:	245.87	1600/11 Aug	243.55	1500/2 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
244.18	4 Jan
244.62	28 Feb
244.83	16 Mar
244.89	28 Apr
245.28	31 May
245.62	27 Jun
245.72	14 Jul
245.73	16 Aug
245.59	9 Sep
245.15	7 Oct
244.95	7 Nov
244.69	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
243.79	31 Jan
243.66	10 Feb
244.64	29 Mar
244.63	13 Apr
244.87	5 May
245.25	3 Jun
245.46	26 Jul
245.25	30 Aug
245.19	30 Sep
244.70	25 Oct
244.73	30 Nov
244.14	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
245.60						2	15	7					245.60	24
245.40						12	16	18	11				245.40	81
245.20					5	16		6	17				245.20	125
245.00					15				2	10			245.00	152
244.80			5	6	11					13	19		244.80	206
244.60		1	26	24						8	11	10	244.60	286
244.40		3										8	244.40	297
244.20		2										10	244.20	309
244.00	12	3										3	244.00	327
243.80	17	3											243.80	347
243.60	2	16											243.60	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2058: Rochester, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	244.05	243.72	244.70	244.66	244.89	245.28	245.63	245.59	245.28	245.09	244.83	244.63
2	244.15	243.75	244.74	244.69	244.89	245.29	245.59	245.57	245.30	245.13	244.81	244.64
3	244.15	243.77	244.79	244.70	244.90	245.25	245.60	245.57	245.34	245.15	244.84	244.67
4	244.18	243.76	244.74	244.71	244.87	245.26	245.62	245.56	245.33	245.09	244.83	244.66
5	244.11	243.79	244.78	244.70	244.87	245.29	245.60	245.60	245.39	245.04	244.83	244.69
6	244.03	243.72	244.78	244.73	244.94	245.29	245.60	245.62	245.46	245.06	244.88	244.67
7	244.11	243.72	244.80	244.69	244.92	245.33	245.62	245.55	245.49	245.15	244.95	244.61
8	244.14	243.71	244.80	244.65	244.91	245.34	245.65	245.53	245.54	245.14	244.87	244.64
9	244.04	243.71	244.79	244.67	244.90	245.33	245.67	245.54	245.59	245.08	244.88	244.68
10	244.11	243.66	244.81	244.69	244.93	245.33	245.71	245.58	245.50	245.02	244.83	244.66
11	244.10	243.72	244.82	244.64	244.96	245.36	245.70	245.64	245.52	244.96	244.82	244.59
12	244.03	243.77	244.80	244.65	245.01	245.36	245.68	245.66	245.48	244.91	244.81	244.54
13	244.00	243.77	244.83	244.63	245.02	245.37	245.64	245.66	245.43	244.88	244.76	244.48
14	244.00	243.78	244.82	244.65	245.03	245.34	245.72	245.60	245.47	244.85	244.76	244.44
15	243.97	243.78	244.76	244.74	245.10	245.36	245.65	245.59	245.44	244.83	244.75	244.45
16	243.98	243.75	244.83	244.67	245.10	245.40	245.63	245.73	245.41	244.88	244.78	244.47
17	243.97	243.81	244.80	244.69	245.11	245.44	245.61	245.71	245.34	244.85	244.80	244.44
18	243.91	243.81	244.79	244.72	245.12	245.44	245.58	245.63	245.29	244.75	244.83	244.39
19	243.94	243.89	244.76	244.74	245.12	245.42	245.58	245.57	245.23	244.84	244.80	244.43
20	243.95	244.05	244.76	244.79	245.13	245.46	245.55	245.54	245.29	244.79	244.82	244.35
21	243.88	244.15	244.74	244.76	245.14	245.45	245.65	245.51	245.32	244.82	244.88	244.24
22	243.89	244.19	244.72	244.74	245.17	245.48	245.67	245.47	245.35	244.77	244.86	244.25
23	243.91	244.25	244.70	244.74	245.18	245.57	245.59	245.44	245.37	244.79	244.83	244.32
24	243.88	244.36	244.70	244.78	245.16	245.56	245.54	245.52	245.32	244.78	244.82	244.27
25	243.83	244.47	244.69	244.83	245.15	245.57	245.48	245.46	245.25	244.70	244.80	244.25
26	243.79	244.56	244.68	244.81	245.19	245.62	245.46	245.39	245.21	244.72	244.73	244.26
27	243.84	244.59	244.69	244.83	245.22	245.62	245.47	245.38	245.19	244.79	244.73	244.20
28	243.85	244.62	244.68	244.89	245.27	245.59	245.49	245.33	245.27	244.84	244.80	244.22
29	243.83		244.64	244.87	245.24	245.54	245.56	245.28	245.23	244.83	244.82	244.25
30	243.84		244.66	244.88	245.25	245.58	245.56	245.25	245.19	244.82	244.73	244.20
31	243.79		244.68		245.28		245.55	245.27		244.83		244.14
MEAN	243.98	243.95	244.75	244.73	245.06	245.42	245.60	245.53	245.36	244.91	244.82	244.44
MAX.	244.29	244.82	244.95	245.25	245.40	245.80	245.84	245.87	245.70	245.38	245.35	245.01
	1400/02	0700/28	1100/17	1900/28	1200/31	1500/24	2200/09	1600/11	1700/09	1600/01	0900/20	0300/01
MIN.	243.67	243.55	244.52	244.24	244.68	245.06	245.26	245.21	245.04	244.49	244.52	244.00
	1700/31	1500/02	1400/30	0900/14	1500/03	1700/10	0100/28	2200/30	1300/27	0800/18	1900/20	1500/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 244.88

ANNUAL SUMMARY OF LEVELS, 1981
Station 2076: Olcott, New York on Lake Ontario

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	245.62	Jul	243.98	Feb
Daily mean elevation:	245.69	16 Aug	243.66	9 Feb
Instant/hourly Elevation:	245.88	1500/28 Jul	243.50	1700/11 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
244.18	3 Jan
244.64	28 Feb
244.83	20 Mar
244.90	30 Apr
245.32	30 May
245.64	30 Jun
245.67	10 Jul
245.69	16 Aug
245.60	5 Sep
245.17	1 Oct
244.91	5 Nov
244.85	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
243.79	30 Jan
243.66	9 Feb
244.66	1 Mar
244.65	14 Apr
244.90	2 May
245.32	4 Jun
245.50	27 Jul
245.36	29 Aug
245.13	30 Sep
244.77	23 Oct
244.67	27 Nov
244.22	24 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
245.60						6	21	17					245.60	44
245.40						12	10	11	15				245.40	92
245.20					10	12		3	13				245.20	130
245.00					11				2	9			245.00	152
244.80			5	7	10					17	24	1	244.80	216
244.60		1	25	23						5	6	7	244.60	283
244.40		4										10	244.40	297
244.20		2										13	244.20	312
244.00	16	2											244.00	330
243.80	14	8											243.80	352
243.60	1	11											243.60	364
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2076: Olcott, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	244.14	243.84	244.66	244.74	244.91	245.34	245.67	245.67	245.42	245.17	244.91	244.85
2	244.06	243.69	244.68	244.69	244.90	245.34	245.66	245.64	245.44	245.11	244.87	244.70
3	244.18	243.72	244.72	244.76	244.93	245.34	245.64	245.61	245.44	245.08	244.89	244.72
4	244.12	243.74	244.82	244.77	244.95	245.32	245.64	245.60	245.51	245.06	244.88	244.72
5	244.09	243.76	244.83	244.72	244.93	245.35	245.63	245.61	245.60	245.08	244.91	244.69
6	244.10	243.72	244.76	244.67	244.96	245.35	245.65	245.61	245.57	245.02	244.85	244.61
7	244.03	243.79	244.76	244.72	244.95	245.37	245.65	245.61	245.58	244.97	244.86	244.63
8	244.07	243.69	244.79	244.72	244.98	245.41	245.66	245.61	245.57	245.06	244.89	244.66
9	244.04	243.66	244.79	244.68	244.98	245.36	245.66	245.61	245.55	245.04	244.86	244.60
10	244.05	243.81	244.82	244.73	244.99	245.37	245.67	245.64	245.49	245.01	244.87	244.60
11	244.07	243.71	244.80	244.71	245.06	245.36	245.65	245.64	245.53	244.97	244.84	244.59
12	244.08	243.73	244.81	244.74	245.04	245.37	245.65	245.67	245.43	244.95	244.87	244.57
13	244.11	243.79*	244.76	244.73	245.05	245.42	245.61	245.68	245.43	244.93	244.83	244.51
14	244.10	243.84*	244.75	244.65	245.09	245.40	245.64	245.63	245.48	244.91	244.82	244.52
15	244.09	243.84	244.75	244.70	245.12	245.47	245.59	245.66	245.42	244.88	244.78	244.50
16	244.02	243.83	244.80	244.70	245.12	245.46	245.58	245.69	245.40	244.85	244.81	244.41
17	243.97	243.85	244.74	244.76	245.14	245.44	245.59	245.61	245.35	244.90	244.83	244.48
18	243.93	243.89	244.78*	244.69	245.12	245.44	245.61	245.63	245.31	244.82	244.78	244.42
19	243.91	243.94	244.76*	244.80	245.14	245.46	245.63	245.60	245.32	244.78	244.84	244.40
20	243.99	244.06	244.83*	244.76	245.17	245.44	245.62	245.55	245.36	244.79	244.88	244.35
21	243.94	244.17	/	244.77	245.19	245.47	245.64	245.54	245.31	244.82	244.82	244.33
22	243.85	244.31	244.75*	244.79	245.21	245.53	245.60	245.54	245.34	244.83	244.84	244.34
23	243.89	244.39	244.73	244.84	245.23	245.61	245.56	245.47	245.27	244.77	244.84	244.33
24	243.90	244.44	244.68*	244.79	245.22	245.64	245.58	245.53	245.26	244.79	244.87	244.22
25	243.90	244.43	244.70	244.81	245.24	245.58	245.52	245.48	245.25	244.80	244.82	244.28
26	243.84	244.52	244.75	244.84	245.25	245.60	245.52	245.46	245.30	244.82	244.87	244.34
27	243.85	244.60	244.67	244.86	245.24	245.62	245.50	245.42	245.21	244.84	244.67	244.32
28	243.87	244.64	244.70	244.90	245.30	245.62	245.64	245.38	245.21	244.86	244.73	244.29
29	243.84		244.70	244.87	245.31	245.64	245.55	245.36	245.19	244.91	244.78	244.24
30	243.79		244.69	244.90	245.32	245.64	245.64	245.38	245.13	244.93	244.79	244.24
31	243.81		244.72		245.29		245.66	245.42		244.92		244.30
MEAN	243.99	243.98	244.75	244.76	245.11	245.46	245.62	245.57	245.39	244.92	244.84	244.48
MAX.	244.26	244.85	244.94	245.09	245.42	245.88	245.88	245.81	245.66	245.47	245.20	245.06
	0200/03	0900/28	0800/04	1600/28	0900/30	2400/08	1500/28	1400/16	1000/07	1200/01	0600/20	0700/01
MIN.	243.65	243.50	244.50	244.43	244.81	245.14	245.38	245.29	244.99	244.57	244.52	244.02
	1800/26	1700/11	0100/31	1300/14	0800/02	0900/06	0900/27	2100/30	1700/30	2300/18	0600/27	0900/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 244.91

ANNUAL SUMMARY OF LEVELS, 1981

Station 3007: Ashland Avenue, Niagara Falls, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	323.98	Aug	316.92	Jan
Daily mean elevation:	325.81	13 Aug	315.36	24 Jan
Instant/hourly Elevation:	329.35	1700/6 Oct	313.33	1100/3 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
320.54	4 Jan
319.52	20 Feb
319.42	17 Mar
323.82	25 Apr
323.78	12 May
324.74	25 Jun
323.40	9 Jul
325.81	13 Aug
325.24	10 Sep
325.69	7 Oct
322.27	21 Nov
320.74	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
315.36	24 Jan
315.40	15 Feb
316.64	22 Mar
321.38	6 Apr
321.90	2 May
321.99	20 Jun
321.42	15 Jul
321.60	28 Aug
320.82	16 Sep
320.78	17 Oct
316.89	24 Nov
317.97	1 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
325.50								6		3			325.50	9
325.00								3	1				325.00	13
324.50						3		3	1	1			324.50	21
324.00						2		3	1	1			324.00	28
323.50				1	2	7		5	4	1			323.50	48
323.00				1	1	8	5	2	5	3			323.00	73
322.50				2	6	5	7	4	10	3			322.50	110
322.00				7	17	4	8	1	2	5	1		322.00	155
321.50				18	5	1	9	4	3	7	1		321.50	203
321.00				1			2		2	4	5		321.00	217
320.50	1								1	3	1	2	320.50	225
320.00	1										3	3	320.00	232
319.50		2									6	7	319.50	247
319.00	2	3	2								5	3	319.00	262
318.50	2	6	3								2		318.50	275
318.00	1	3	13								4	1	318.00	297
317.50	2	1	8									1	317.50	309
317.00	4	5	3								1		317.00	322
316.50	2	1	2								1		316.50	328
316.00	4	4											316.00	336
315.50	3	2											315.50	341
315.00	9	1											315.00	351

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3007: Ashland Avenue, Niagara Falls, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	316.29	316.22	318.18	321.95	322.05	322.65	322.12	321.93	322.52	323.14	319.28	317.97
2	319.26	318.35	319.30	321.86	321.90	322.20	322.34	323.86	323.32	324.28	318.28	320.74
3	319.44	318.62	318.75	321.85	322.01	322.11	322.39	323.27	322.78	322.22	318.54	320.53
4	320.54	318.93	318.07	321.96	322.05	322.54	322.31	323.56	322.99	322.91*	318.68*	319.45
5	320.03	318.75	317.50	321.82	322.10	322.25	322.26	324.00	322.98	323.46	318.07	319.73
6	318.20	317.37	318.20	321.38	322.18	322.56	322.98	322.91	323.23	323.98	321.44	319.78
7	318.67	316.22	317.56	321.63	322.07	323.08	322.97	322.77	322.80	325.69*	321.18*	320.17
8	318.87	316.45	316.64	321.79	322.10	322.66	322.79	322.98	324.14	322.96	320.00	320.40
9	317.62	317.46	318.43	321.94	322.01	323.15	323.40	324.42	323.95	321.79*	319.85	320.20
10	317.57	317.41	318.68	321.82	322.14	323.21	322.68	325.27	325.24	320.84*	319.57	319.93*
11	316.89	317.34	318.39	321.91	322.66	322.58	322.06	325.65	323.06	321.15	320.75	319.54*
12	317.26	319.29	318.29	321.80	323.78	323.13	321.75	325.68	323.05	321.40	319.35*	318.43
13	317.40	317.28	318.16	321.58	322.96	322.43	322.78	325.81	322.52	320.94*	319.89*	319.26
14	317.07	316.40	317.95	322.09	322.37	323.20	321.77	325.64	323.32	322.29*	318.07	319.51
15	316.40	315.40	318.33	322.45	321.99	323.56	321.42	325.62	322.01	323.02	317.26*	319.56
16	316.43	315.65	318.12	321.56	322.59	323.62	321.55	324.68	320.82	322.17	319.17	319.57
17	316.99	315.97	319.42	321.89	322.48	323.55	321.53	324.56	321.39	320.78	319.71	319.14*
18	315.90	316.96	318.48	322.20	322.65	323.34	321.57	325.72	321.53	325.52	320.45	/
19	315.74	318.84	318.37	321.78	322.11	323.13	321.84	325.22	323.89	325.68	320.08	/
20	315.42	319.52	318.51	322.43	322.54	321.99	322.82	323.80	323.83	324.58*	321.37*	/
21	315.41	319.51	317.71	322.11	322.08	323.08	322.14	324.20	323.00	321.99	322.27	/
22	317.39	318.55	316.64	321.90	322.10	324.62	321.45	323.75	321.56	321.18	321.29	/
23	315.44	319.21	317.53	321.64	322.06	324.56	321.87	325.23	322.34	322.35*	319.94*	/
24	315.36	319.04	317.84	322.54	323.10	323.59	321.90	324.87	322.70	321.74	316.89	/
25	315.43	318.82	317.55	323.82	323.53	324.74	321.73	323.20	322.88	321.10	318.12	/
26	316.24	318.49	317.40	323.11	322.43	323.86	322.60	324.44	321.53	322.02*	319.13	/
27	315.63	318.30	317.96	322.47	321.92	323.76	322.48	321.90	323.93	321.62*	321.75*	/
28	315.38	317.81	317.02	321.88	321.99	324.21	323.11	321.60	324.55	322.62	321.39	/
29	315.49		318.03	322.61	321.99	324.04	323.30	321.77	322.72	321.74	320.45*	/
30	315.41		317.96	322.20	322.06	323.59	323.14	322.59	321.28	321.69*	319.21*	/
31	315.47		318.04		322.88		323.12	322.44		321.92		/
MEAN	316.92	317.79	318.03	322.07	322.35	323.23	322.33	323.98	322.86	322.54	319.71	319.64
MAX.	322.27	321.77	321.00	327.15	328.05	328.92	328.30	328.98	329.20	329.35	327.14	322.40
	0100/05	0300/12	1300/17	1800/24	1700/12	1500/22	1300/30	1300/10	1500/19	1700/06	2200/20	2000/02
MIN.	315.21	315.26	315.54	314.27	315.03	315.24	314.28	314.91	314.94	314.58	313.33	316.19
	2300/27	1200/15	0600/26	0200/13	2400/01	2400/30	2400/16	0100/01	2400/30	2300/12	1100/03	0500/01

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 320.95

ANNUAL SUMMARY OF LEVELS, 1981

Station 3009: American Falls, Niagara Falls, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	558.80	Jun	558.36	Jan
Daily mean elevation:	559.44	18 Oct	557.70	1 Nov
Instant/hourly Elevation:	560.23	0100/19 Oct	556.93	2200/5 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
558.65	25 Jan
558.77	2 Feb
558.92	11 Mar
558.88	29 Apr
558.90	12 May
559.07	22 Jun
559.07	20 Jul
559.00	23 Aug
558.97	19 Sep
559.44	18 Oct
559.28	21 Nov
559.01	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
557.98	1 Jan
557.91	5 Feb
558.51	21 Mar
558.37	15 Apr
558.59	27 May
558.66	20 Jun
558.56	31 Jul
558.43	10 Aug
558.46	11 Sep
558.02	29 Oct
557.70	1 Nov
558.09	1 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
559.40										1			559.40	1
559.20										1	1		559.20	3
559.00						1	1			1		1	559.00	7
558.80			8	2	4	10	3	6	3	2	5	7	558.80	57
558.60	2	19	17	20	25	19	25	18	21	17	5	7	558.60	252
558.40	12	2	6	6	2		2	7	6	5	10	8	558.40	318
558.20	12	2		2							1	7	558.20	342
558.00	4	4								4		1	558.00	355
557.80	1	1									5		557.80	362
557.60											3		557.60	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3009: American Falls, Niagara Falls, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	557.98	558.34	558.65	558.57	558.66	558.77	558.75	558.66	558.59	558.62	557.70	558.09
2	558.20	558.77	558.65	558.43	558.71	558.77	558.63	558.72	558.66	558.67	557.91	558.94
3	558.06	558.65	558.73	558.67	558.77	558.78	558.66	558.60	558.54	558.79	557.80	559.00
4	558.22	558.06	558.60	558.75	558.76	558.80	558.75	558.67	558.72	558.72	558.00	558.68
5	558.27	557.91	558.58	558.40	558.77	558.76	558.71	558.81	558.91	558.79	557.91	558.73
6	558.31	558.17	558.83	558.45	558.71	558.75	558.75	558.60	558.74	558.86	558.78	558.74
7	558.34	558.23	558.84	558.62	558.74	558.84	558.62	558.61	558.66	559.28	558.86	558.86
8	558.47	558.61	558.71	558.67	558.73	558.70	558.62	558.62	558.72	558.62	558.46	558.97
9	558.51	558.71	558.86	558.72	558.72	558.81	558.67	558.65	558.58	558.61	558.56	558.89
10	558.43	558.46	558.82	558.74	558.70	558.81	558.61	558.43	558.67	558.64	558.67	558.87
11	558.55	558.61	558.92	558.78	558.79	558.72	558.61	558.78	558.46	558.58	558.58	558.64
12	558.58	558.71	558.89	558.56	558.90	558.70	558.66	558.76	558.71	558.58	558.54	558.26
13	558.46	558.12	558.82	558.65	558.84	558.70	558.62	558.84	558.61	558.71	558.44	558.50
14	558.14	558.08	558.68	558.69	558.63	558.76	558.62	558.78	558.76	558.76	558.54	558.59
15	558.06	558.49	558.90	558.37	558.72	558.87	558.69	558.89	558.54	558.84	558.60	558.61
16	558.24	558.64	558.58	558.70	558.77	558.91	558.68	558.73	558.57	558.69	558.55	558.61
17	558.21	558.67	558.64	558.73	558.65	558.91	558.78	558.52	558.73	558.60	558.75	558.38
18	558.43	558.72	558.65	558.77	558.67	558.85	558.81	558.81	558.77	559.44	559.00	558.33
19	558.52	558.73	558.51	558.69	558.76	558.78	558.85	558.68	558.97	559.10	558.69	558.58
20	558.42	558.66	558.56	558.86	558.78	558.66	559.07	558.71	558.73	558.75	558.73	558.50
21	558.38	558.70	558.51	558.79	558.78	558.74	558.79	558.60	558.72	558.60	559.28	558.85
22	558.50	558.66	558.63	558.65	558.68	559.07	558.65	558.71	558.72	558.55	558.91	558.61
23	558.34	558.72	558.73	558.42	558.59	558.96	558.67	559.00	558.67	558.62	558.44	558.46
24	558.53	558.71	558.71	558.75	558.68	558.80	558.64	558.93	558.77	558.73	557.96	559.01
25	558.65	558.70	558.68	558.74	558.74	558.90	558.72	558.63	558.71	558.77	557.93	558.60
26	558.64	558.71	558.68	558.77	558.66	558.81	558.91	558.74	558.69	558.76	557.78	558.25
27	558.41	558.65	558.74	558.72	558.59	558.78	558.71	558.56	558.75	558.80	558.89	558.51
28	558.24	558.66	558.67	558.51	558.67	558.76	558.64	558.61	558.95	558.17	558.81	558.57
29	558.34		558.76	558.88	558.73	558.79	558.57	558.63	558.75	558.02	558.44	558.31
30	558.32		558.74	558.71	558.83	558.68	558.71	558.68	558.74	558.08	558.23	558.40
31	558.37		558.77		558.86		558.56	558.58		558.15		558.35
MEAN	558.36	558.53	558.71	558.66	558.73	558.80	558.70	558.69	558.70	558.67	558.46	558.60
MAX.	558.83	559.31	559.09	559.53	559.53	559.50	559.60	559.49	559.66	560.23	559.75	559.42
	1100/12	0600/12	1800/12	0700/29	0700/13	0600/25	0600/20	0700/24	0700/28	0100/19	1000/27	2100/24
MIN.	557.77	557.76	558.32	556.93	557.54	557.68	557.47	557.60	557.50	557.42	557.21	557.76
	1400/01	0900/05	0900/21	2200/05	2100/01	2100/14	2100/29	2100/02	2100/11	1900/29	0800/03	1000/01

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 558.63

ANNUAL SUMMARY OF LEVELS, 1981

Station 3012: Niagara Intake, Niagara Falls, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	561.63	Jun	561.11	Nov
Daily mean elevation:	562.53	18 Oct	560.19	1 Nov
Instant/hourly Elevation:	563.52	1800/18 Oct	559.66	0800/3 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
561.57	2 Jan
561.50	2 Feb
561.59	11 Mar
562.18	24 Apr
561.77	12 May
561.96	22 Jun
561.91	20 Jul
561.94	23 Aug
561.92	28 Sep
562.53	18 Oct
562.20	21 Nov
561.90	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
560.70	15 Jan
560.58	14 Feb
561.05	19 Mar
561.20	12 Apr
561.36	27 May
561.42	20 Jun
561.41	11 Jul
561.34	10 Aug
561.29	11 Sep
560.72	29 Oct
560.19	1 Nov
560.63	1 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
562.40										1			562.40	1
562.20										1			562.20	2
562.00				2						1	1		562.00	6
561.80						4	1	5	2	1	1	2	561.80	22
561.60				7	6	10	5	9	9	3	4	6	561.60	81
561.40	3	1	8	14	23	16	25	13	16	14	3	2	561.40	219
561.20	7	12	16	6	2			4	3	6	5	11	561.20	291
561.00	11	11	7	1							7	5	561.00	333
560.80	6	2								2	1	4	560.80	348
560.60	4	1								2		1	560.60	356
560.40		1									3		560.40	360
560.20											4		560.20	364
560.00											1		560.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3012: Niagara Intake, Niagara Falls, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	560.93	561.15	561.22	561.33	561.44	561.57	561.55	561.51	561.43	561.52	560.19	560.63
2	561.57	561.50	561.28	561.30	561.51	561.57	561.43	561.73	561.54	561.58	560.31*	561.77
3	561.12	561.39	561.35	561.45	561.58	561.57	561.48	561.56	561.41	561.60	560.29	561.82
4	561.22	561.10	561.16	561.49	561.57	561.60	561.55	561.66	561.60	561.56	560.51	561.39
5	561.25	561.00	561.12	561.39	561.59	561.57	561.52	561.82	561.78	561.67	560.40	561.49
6	561.37	561.12	561.48	561.47	561.50	561.56	561.63	561.52	561.62	561.81	561.56	561.50
7	561.48	561.16	561.46	561.40	561.53	561.67	561.47	561.52	561.52	562.35	561.62	561.64
8	561.28	561.28	561.26	561.40	561.54	561.49	561.46	561.54	561.67	561.47	561.10	561.79
9	561.20	561.13	561.52	561.52	561.52	561.64	561.57	561.69	561.48	561.41	561.21	561.71
10	560.99	561.12	561.45	561.46	561.50	561.65	561.45	561.34	561.67	561.37	561.32	561.67
11	560.79	561.20	561.59	561.53	561.62	561.51	561.41	561.74	561.29	561.33	561.27	561.36
12	560.78	561.33	561.56	561.20	561.77	561.53	561.46	561.71	561.58	561.34	561.17	560.88
13	560.88	560.70	561.46	561.36	561.69	561.48	561.48	561.81	561.43	561.47	561.09	561.21
14	560.76	560.58	561.30	561.58	561.41	561.60	561.44	561.72	561.64	561.59	561.11	561.31
15	560.70	560.98	561.58	561.46	561.52	561.73	561.47	561.85	561.35	561.69	561.17	561.34
16	560.99	561.17	561.16	561.45	561.57	561.81	561.47	561.61	561.35	561.50	561.21	561.37
17	560.87	561.19	561.30	561.48	561.45	561.78	561.56	561.38	561.50	561.32	561.48	561.03
18	560.85	561.25	561.31	561.61	561.46	561.64	561.61	561.79	561.56	562.53	561.81	561.01
19	561.15	561.30	561.05	561.70	561.56	561.60	561.65	561.62	561.89	562.13	561.40	561.31
20	561.18	561.23	561.14	561.71	561.60	561.42	561.91	561.56	561.65	561.66	561.52	561.22
21	561.11	561.27	561.08	561.56	561.58	561.54	561.58	561.45	561.57	561.38	562.20	561.67
22	561.44	561.20	561.18	561.52	561.47	561.96	561.44	561.52	561.50	561.28	561.72	561.33
23	561.14	561.31	561.34	561.73	561.36	561.81	561.49	561.94	561.51	561.42	561.08	561.16
24	561.38	561.30	561.31	562.18	561.50	561.61	561.47	561.81	561.63	561.50	560.44	561.90
25	561.40	561.29	561.27	562.08	561.61	561.81	561.54	561.40	561.56	561.54	560.46	561.35
26	561.34	561.30	561.26	561.69	561.46	561.65	561.80	561.58	561.46	561.54	560.31	560.86
27	561.18	561.20	561.35	561.59	561.36	561.59	561.57	561.38	561.67	561.58	561.80	561.17
28	561.11	561.24	561.23	561.68	561.45	561.62	561.53	561.43	561.92	560.90	561.61	561.31
29	561.20		561.40	561.72	561.50	561.65	561.47	561.45	561.61	560.72	561.13	560.99
30	561.20		561.36	561.52	561.63	561.53	561.66	561.53	561.51	560.77	560.85	561.10
31	561.20		561.36		561.71		561.50	561.42		560.85		560.98
MEAN	561.13	561.18	561.32	561.55	561.53	561.63	561.54	561.60	561.56	561.50	561.11	561.33
MAX.	561.83	562.05	561.90	562.84	562.55	562.65	562.64	562.55	562.90	563.52	562.83	562.42
	0600/22	0300/12	1700/12	0900/24	0700/13	0700/26	0700/20	0700/13	0700/28	1800/18	0900/27	2100/24
MIN.	560.54	560.53	560.84	560.15	560.19	560.45	560.42	560.34	560.39	560.21	559.66	560.23
	1000/15	2200/14	0700/16	2200/02	2100/27	2100/02	2100/29	2100/25	2100/01	2000/31	0800/03	0900/01

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 561.42

ANNUAL SUMMARY OF LEVELS, 1981

Station 3117: Ontario St., Buffalo, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	565.64	Aug	564.70	Feb
Daily mean elevation:	566.67	18 Oct	564.23	14 Feb
Instant/hourly Elevation:	567.81	1600/18 Oct	563.97	0400/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
565.64	7 Jan
565.36	3 Feb
565.25	17 Mar
565.76	24 Apr
565.73	12 May
566.10	22 Jun
565.73	20 Jul
566.00	15 Aug
566.02	10 Sep
566.67	18 Oct
566.07	27 Nov
565.89	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
564.36	14 Jan
564.23	14 Feb
564.72	5 Mar
564.32	12 Apr
565.19	10 May
565.27	1 Jun
565.37	24 Jul
565.34	28 Aug
565.14	16 Sep
564.83	29 Oct
564.60	26 Nov
564.58	1 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
566.60										1			566.60	1
566.40										1			566.40	2
566.20													566.20	2
566.00						1			1	2	2		566.00	8
565.80						1		7	4		1	1	565.80	22
565.60	1			2	1	10	9	9	6	4	1	1	565.60	66
565.40	1			1	7	11	20	12	11	4	4	1	565.40	138
565.20	3	1	1	6	21	7	2	3	7	6	2	9	565.20	206
565.00	5	2	11	8	2				1	8	6	9	565.00	258
564.80	4	9	16	8						5	9	5	564.80	314
564.60	3	5	3	4							4	2	564.60	335
564.40	11	7									1	1	564.40	355
564.20	3	4		1									564.20	363

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3117: Ontario St., Buffalo, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	564.91	564.41	564.95	565.05	565.23	565.27	565.44	565.58	565.43	565.66	564.83	564.58
2	565.46	565.07	565.09	564.91	565.28	565.30	565.45	565.66	565.50	565.80	564.89	565.71
3	564.98	565.36	565.00	564.93	565.24	565.36	565.50	565.63	565.40	565.61	564.74	565.34
4	565.40*	564.89*	564.79	564.90	565.26	565.50	565.57	565.77	565.64	565.50	564.87	565.01
5	565.24	564.59	564.72	564.99	565.29	565.39	565.58	565.90	565.73	565.57	564.85	565.17
6	565.32	564.57	565.01	565.11	565.26	565.53	565.63	565.59	565.58	566.14	565.83	565.13
7	565.64	564.38	565.06	564.78	565.24	565.50	565.61	565.60	565.55	566.44	565.56	565.26
8	565.11	564.62	564.90	564.79	565.20	565.39	565.60	565.70	565.82	565.46	565.20	565.44
9	565.02	564.65	565.00	564.94	565.27	565.66	565.73	565.84	565.65	565.27	565.04	565.40
10	565.06	564.26	564.99	564.80	565.19	565.62	565.57	565.63	566.02	565.09	565.14	565.35
11	565.13	564.76	565.11	564.85	565.33	565.51	565.52	565.88	565.49	565.10	565.24	565.10
12	565.01	564.83	565.13	564.32	565.73	565.45	565.50	565.84	565.66	565.02	564.88	564.83
13	564.76	564.44	565.05	564.74	565.51	565.38	565.60	565.93	565.48	565.20	564.93	564.96
14	564.36	564.23	565.09	565.24	565.22	565.50	565.46	565.81	565.66	565.34	564.91	564.95
15	564.38	564.33	565.20	565.07	565.34	565.63	565.45	566.00	565.31	565.47	564.92	564.98
16	564.56	564.43	564.89	564.91	565.50	565.76	565.44	565.73	565.14	565.32	565.02	565.27
17	564.58	564.53	565.25*	564.99	565.31	565.75	565.50	565.56	565.37	565.16	565.23	564.78
18	564.79	564.60	565.13*	565.21	565.29	565.60	565.50	565.62	565.51	566.67	565.47	565.05
19	564.84	564.70	564.86	565.16	565.34	565.60	565.51	565.51	565.97	566.05	564.99	565.26
20	564.53	564.86	564.99	565.20	565.41	565.39	565.73	565.50	565.65	565.72	565.64	565.18
21	564.55	564.88	564.87	565.05	565.44	565.53	565.62	565.48	565.33	564.98	566.02	565.38
22	564.89	564.71	564.79	565.01	565.40	566.10	565.45	565.55	565.31	564.91	565.59	564.98
23	564.50	564.85	564.88	565.28	565.29	565.80	565.38	565.78	565.44	565.39	565.09	565.10
24	564.56	564.99	564.92	565.76	565.31	565.61	565.37	565.72	565.56	565.21	564.64	565.89
25	564.51	565.01	564.93	565.62	565.41	565.98	565.51	565.38	565.45	565.20	564.70	565.24
26	564.73	564.97	564.88	565.29	565.33	565.79	565.71	565.45	565.38	565.15	564.60	564.70
27	564.53	564.82	565.01	565.21	565.23	565.62	565.59	565.35	565.90	565.21	566.07	565.24
28	564.39	565.00	564.87	565.17	565.34	565.58	565.64	565.34	565.94	565.06	565.56	565.02
29	564.53		565.00	565.45	565.39	565.64	565.64	565.43	565.42	564.83	565.15	565.01*
30	564.49		565.01	565.26	565.44	565.56	565.69	565.56	565.23	564.89	564.78	/
31	564.54		564.93		565.53		565.57	565.47		564.97		/
MEAN	564.82	564.70	564.98	565.07	565.34	565.58	565.55	565.64	565.55	565.40	565.15	565.15
MAX.	565.91	565.79	565.69	566.12	566.16	567.19	566.21	566.56	566.76	567.81	567.01	566.52
	1800/07	1500/02	1100/17	1100/24	1400/12	1400/22	1600/26	0900/15	1300/10	1600/18	0500/27	1900/27
MIN.	564.18	564.08	564.52	563.99	564.83	564.95	565.04	564.97	564.50	564.60	563.97	564.10
	0300/15	2300/10	1000/05	2200/12	2000/14	2300/02	2200/01	2200/27	2300/21	2000/29	0400/20	0500/23

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 565.24

ANNUAL SUMMARY OF LEVELS, 1981

Station 3020: Buffalo Harbor, Buffalo, New York on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	572.15	Jul	570.69	Feb
Daily mean elevation:	573.49	18 Oct	570.15	10 Feb
Instant/hourly Elevation:	575.74	1300/18 Oct	569.61	1100/12 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.51	7 Jan
571.29	28 Feb
571.52	17 Mar
571.94	24 Apr
572.22	12 May
572.74	22 Jun
572.49	9 Jul
572.36	15 Aug
572.61	10 Sep
573.49	18 Oct
572.91	27 Nov
572.44	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.29	25 Jan
570.15	10 Feb
570.97	5 Mar
570.25	12 Apr
571.50	8 May
571.58	1 Jun
571.91	24 Jul
571.61	27 Aug
571.36	16 Sep
571.10	22 Oct
571.13	19 Nov
570.82	17 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
573.40										1			573.40	1
573.20													573.20	1
573.00													573.00	1
572.80										1	1		572.80	3
572.60						2			1	1			572.60	7
572.40						1	1		2		1	1	572.40	13
572.20					1	7	9	7	2	3	2	1	572.20	45
572.00						10	17	8	7	1	2		572.00	90
571.80				2	8	7	4	7	6	3	1	1	571.80	129
571.60				2	15	2		9	8	3	5	6	571.60	179
571.40	3		2	8	7	1			3	9	8	9	571.40	229
571.20	2	2	12	9					1	6	8	8	571.20	277
571.00	1	4	15	8						3	2	4	571.00	314
570.80	3	4	2									1	570.80	324
570.60	7	5											570.60	336
570.40	8	7											570.40	351
570.20	7	5		1									570.20	364
570.00		1											570.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3020: Buffalo Harbor, Buffalo, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570.94	570.38	571.16	571.36	571.61	571.58	571.94	572.07	571.78	572.23	571.59	571.06
2	571.43	571.29	571.38	571.10	571.66	571.68	572.03	572.08	571.84	572.28	571.59	572.35
3	571.02	571.14	571.24	571.20	571.54	571.76	572.14	572.08	571.77	571.95	571.45	571.53
4	571.48	570.61	571.02	571.18	571.59	571.97	572.21	572.26	572.10	571.82	571.54	571.22
5	571.35	570.45	570.97	571.46	571.65	571.84	572.21	572.31	572.11	571.91	571.62	571.46
6	571.23	570.51	571.21	571.36	571.54	572.05	572.25	571.99	571.91	572.80	572.56	571.40
7	571.51	570.36	571.33	571.07	571.57	571.93	572.32	572.00	571.95	572.82	572.01	571.57
8	570.81	570.64	571.17	571.06	571.50	571.90	572.35	572.19	572.29	571.75	571.79	571.69
9	570.85	570.46	571.21	571.22	571.66	572.22	572.49	572.26	572.17	571.52	571.38	571.64
10	570.79	570.15	571.20	571.04	571.51	572.18	572.30	572.11	572.61	571.27	571.55	571.57
11	570.69	570.99	571.31	571.06	571.65	572.08	572.26	572.28	572.04	571.32	571.66	571.37
12	570.66	570.73	571.36	570.25	572.22	571.96	572.19	572.21	572.08	571.16	571.21	571.24
13	570.48	570.38	571.28	571.01	571.94	571.90	572.35	572.28	571.87	571.43	571.30	571.37
14	570.43	570.40	571.36	571.59	571.54	572.01	572.11	572.18	572.08	571.57	571.29	571.23
15	570.42	570.39	571.48	571.42	571.74	572.15	572.11	572.36	571.67	571.76	571.27	571.27
16	570.59	570.43	571.09	571.30	571.94	572.32	572.09	572.04	571.36	571.57	571.41	571.60
17	570.65	570.46	571.52	571.41	571.71	572.29	572.14	571.89	571.66	571.45	571.63	570.82
18	570.63	570.46	571.17	571.58	571.66	572.12	572.11	571.79	571.87	573.49	571.73	571.56
19	570.47	570.54	571.17	571.39	571.70	572.14	572.08	571.69	572.43	572.28	571.13	571.61
20	570.31	570.80	571.34	571.32	571.81	571.93	572.23	571.74	572.07	572.20	572.31	571.63
21	570.40	570.82	571.12	571.24	571.87	572.11	572.17	571.76	571.50	571.11	572.39	571.76
22	570.79	570.62	570.99	571.22	571.87	572.74	572.05	571.82	571.55	571.10	571.97	571.19
23	570.44	570.82	571.04	571.53	571.74	572.39	571.91	572.04	571.69	571.79	571.53	571.60
24	570.40	571.13	571.13	571.94	571.71	572.25	571.91	571.88	571.85	571.43	571.16	572.44
25	570.29	571.13	571.14	571.74	571.82	572.69	572.07	571.62	571.72	571.44	571.27	571.62
26	570.73	571.08	571.07	571.56	571.76	572.47	572.18	571.69	571.79	571.30	571.22	571.01
27	570.46	570.94	571.22	571.53	571.61	572.24	572.13	571.61	572.54	571.36	572.91	571.92
28	570.31	571.29	571.09	571.38	571.74	572.20	572.16	571.62	572.29	571.45	572.02	571.24
29	570.47		571.19	571.83	571.79	572.27	572.17	571.76	571.66	571.27	571.59	571.60
30	570.38		571.30	571.67	571.83	572.13	572.13	571.89	571.43	571.37	571.22	571.50
31	570.31		571.09		571.91		572.00	571.82		571.48		571.10
MEAN	570.70	570.69	571.20	571.33	571.72	572.12	572.15	571.98	571.92	571.73	571.64	571.49
MAX.	572.25	572.56	572.26	572.70	572.74	574.57	573.14	573.54	573.87	575.74	575.72	574.46
	2000/04	1500/02	1000/17	1200/14	1300/12	1300/22	1600/26	0900/15	1700/19	1300/18	0500/27	1900/27
MIN.	570.08	569.77	570.57	569.61	571.00	571.40	571.56	571.19	570.34	570.50	569.68	569.99
	2400/31	1300/10	1000/05	1100/12	0400/11	1600/01	2400/21	0300/25	2200/21	0400/22	0400/20	0500/23

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 571.56

ANNUAL SUMMARY OF LEVELS, 1981

Station 3028: Sturgeon Point, New York on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	572.13	Jul	570.68	Feb
Daily mean elevation:	573.18	18 Oct	570.14	10 Feb
Instant/hourly Elevation:	575.19	1300/18 Oct	569.86	1100/12 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.51	7 Jan
571.30	28 Feb
571.51	17 Mar
571.89	24 Apr
572.06	12 May
572.60	25 Jun
572.42	9 Jul
572.30	15 Aug
572.44	10 Sep
573.18	18 Oct
572.72	27 Nov
572.19	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.29	25 Jan
570.14	10 Feb
570.99	5 Mar
570.46	12 Apr
571.52	10 May
571.59	1 Jun
571.89	24 Jul
571.61	27 Aug
571.41	16 Sep
571.17	21 Oct
571.16	19 Nov
570.89	17 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
573.00										1			573.00	1
572.80													572.80	1
572.60										2	1		572.60	4
572.40						3	1		2		1		572.40	11
572.20						6	6	4	3	3	2		572.20	35
572.00					1	9	20	10	6	1		2	572.00	84
571.80				2	7	9	4	6	7	3	3	1	571.80	126
571.60				3	16	2		11	8	3	4	5	571.60	178
571.40	3		2	10	7	1			4	9	10	10	571.40	234
571.20	2	2	12	10						7	7	8	571.20	282
571.00	1	4	16	4						2	2	3	571.00	314
570.80	3	3	1									2	570.80	323
570.60	7	5											570.60	335
570.40	10	8		1									570.40	354
570.20	5	5											570.20	364
570.00		1											570.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3028: Sturgeon Point, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570.97	570.35	571.15	571.41	571.62	571.59	571.96	572.05	571.76	572.24	571.58	571.00
2	571.44	571.29	571.37	571.17	571.67	571.67	572.03	572.04	571.83	572.28	571.59	572.14
3	571.05	571.09	571.22	571.28	571.55	571.77	572.12	572.04	571.74	571.96	571.45	571.51
4	571.50	570.58	571.04	571.30	571.58	571.94	572.18	572.18	572.07	571.78	571.53	571.23
5	571.36	570.44	570.99	571.56	571.67	571.83	572.20	572.28	572.07	571.89	571.59	571.49
6	571.24	570.50	571.21	571.45	571.56	572.00	572.22	571.97	571.90	572.64	572.46	571.40
7	571.51	570.35	571.32	571.21	571.58	571.89	572.26	571.98	571.92	572.71	571.98	571.54
8	570.82	570.61	571.16	571.21	571.52	571.88	572.30	572.11	572.24	571.78	571.73	571.69
9	570.85	570.42	571.20	571.33	571.65	572.16	572.42	572.19	572.14	571.53	571.41	571.66
10	570.78	570.14	571.20	571.18	571.52	572.14	572.26	572.07	572.44	571.32	571.55	571.60
11	570.69	570.98	571.31	571.18	571.67	572.05	572.21	572.28	572.00	571.37	571.75*	571.37
12	570.66	570.69	571.36	570.46	572.06	571.93	572.18	572.18	572.03	571.21	571.25	571.24
13	570.50	570.38	571.28	571.10	571.89	571.88	572.30	572.22	571.82	571.43	571.30	571.36
14	570.45	570.40	571.36	571.59	571.58	571.99	572.10	572.12	572.01	571.57	571.28	571.22
15	570.44	570.39	571.50	571.49	571.77	572.13	572.09	572.30	571.68	571.72	571.30	571.27
16	570.60	570.41	571.11	571.38	571.92	572.26	572.05	572.02	571.41	571.60	571.41	571.61
17	570.65	570.45	571.51	571.51	571.72	572.24	572.11	571.89	571.70	571.47	571.63	570.89
18	570.63	570.44	571.19	571.61	571.66	572.08	572.06	571.77	571.87	573.18	571.71	571.55
19	570.48	570.53	571.18	571.44	571.70	572.14	572.05	571.69	572.34	572.26	571.16	571.61
20	570.32	570.79	571.35	571.36	571.79	571.96	572.16	571.74	572.06	572.08	572.31	571.59
21	570.41	570.80	571.13	571.24	571.85	572.11	572.15	571.75	571.51	571.17	572.33	571.63
22	570.78	570.64	571.01	571.25	571.86	572.60	572.04	571.80	571.59	571.20	571.94	571.18
23	570.43	570.83	571.06	571.53	571.74	572.36	571.89	571.98	571.70	571.84	571.52	571.54
24	570.41	571.13	571.14	571.89	571.69	572.22	571.89	571.88	571.84	571.45	571.19	572.19
25	570.29	571.12	571.15	571.72	571.82	572.60	572.02	571.62	571.71	571.42	571.28	571.54
26	570.72	571.07	571.08	571.54	571.76	572.41	572.17	571.68	571.78	571.32	571.23	571.03
27	570.44	570.95	571.23	571.52	571.62	572.21	572.10	571.61	572.41	571.38	572.72	571.83
28	570.32	571.30	571.10	571.40	571.75	572.19	572.20	571.63	572.22	571.48	571.91	571.22
29	570.47		571.21	571.81	571.80	572.23	572.17	571.72	571.65	571.31	571.60	571.59
30	570.37		571.33	571.67	571.82	572.14	572.09	571.83	571.44	571.39	571.21	571.45
31	570.31		571.13		571.88		571.98	571.79		571.46		571.09
MEAN	570.71	570.68	571.21	571.39	571.72	572.09	572.13	571.95	571.90	571.72	571.63	571.46
MAX.	572.20	572.43	572.33	572.52	572.48	574.13	573.24	573.00	573.53	575.19	574.82	573.96
	2000/04	1400/02	1000/17	0400/18	1300/12	1300/22	1600/26	1600/15	1700/19	1300/18	0500/27	1800/27
MIN.	570.10	569.86	570.61	569.86	571.02	571.41	571.57	571.19	570.34	570.69	569.98	570.02
	2400/31	1200/10	1000/05	1100/12	0400/11	1600/01	0700/28	0300/25	2200/21	0400/22	0300/20	0500/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 571.55

ANNUAL SUMMARY OF LEVELS, 1981
Station 3032: Barcelona, New York on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	571.87	Aug	571.14	Jan
Daily mean elevation:	572.75	18 Oct	570.83	1 Jan
Instant/hourly Elevation:	574.47	1400/18 Oct	570.29	0200/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.31	5 Jan
	Feb
	Mar
	Apr
	May
	Jun
	Jul
572.22	11 Aug
572.24	19 Sep
572.75	18 Oct
572.36	27 Nov
571.92	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.83	1 Jan
	Feb
	Mar
	Apr
	May
	Jun
	Jul
571.62	27 Aug
571.46	30 Sep
571.20	22 Oct
571.18	19 Nov
571.00	17 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.60										1			572.60	1
572.40										2			572.40	3
572.20								1	2	1	2		572.20	9
572.00								5	6	2	2		572.00	24
571.80								5	9	3	1	2	571.80	44
571.60								10	10	4	3	4	571.60	75
571.40									3	9	13	11	571.40	111
571.20	3									8	8	7	571.20	137
571.00	3									1	1	6	571.00	148
570.80	1											1	570.80	150

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3032: Barcelona, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570.83	/	/	/	/	/	/	/	571.74	572.15	571.55	571.02
2	571.24	/	/	/	/	/	/	/	571.81	572.26	571.57	571.92
3	571.06	/	/	/	/	/	/	/	571.74	571.89	571.45	571.42
4	571.28	/	/	/	/	/	/	/	572.03	571.74	571.51	571.24
5	571.31	/	/	/	/	/	/	/	572.02	571.84	571.57	571.46
6	571.04	/	/	/	/	/	/	/	571.90	572.44	572.30	571.38
7	571.19*	/	/	/	/	/	/	/	571.92	572.48	571.88	571.46
8	/	/	/	/	/	/	/	/	572.17	571.77	571.62	571.70
9	/	/	/	/	/	/	/	/	572.09	571.55	571.42	571.62
10	/	/	/	/	/	/	/	/	572.23	571.39	571.53	571.61
11	/	/	/	/	/	/	/	572.22*	571.95	571.43	571.58	571.40
12	/	/	/	/	/	/	/	572.14	571.94	571.30	571.27	571.24
13	/	/	/	/	/	/	/	572.15	571.78	571.45	571.31	571.31
14	/	/	/	/	/	/	/	572.11	571.94	571.57	571.32	571.20
15	/	/	/	/	/	/	/	572.16	571.65	571.65	571.31	571.26
16	/	/	/	/	/	/	/	572.01	571.51	571.59	571.41	571.52
17	/	/	/	/	/	/	/	571.88	571.77	571.49	571.59	571.00
18	/	/	/	/	/	/	/	571.81	571.87	572.75	571.60	571.51
19	/	/	/	/	/	/	/	571.74	572.24	572.10	571.18	571.54
20	/	/	/	/	/	/	/	571.77	571.95	571.90	572.13	571.48
21	/	/	/	/	/	/	/	571.77	571.59	571.22	572.18	571.45
22	/	/	/	/	/	/	/	571.82	571.61	571.20	571.79	571.16
23	/	/	/	/	/	/	/	571.91	571.71	571.70	571.46	571.47
24	/	/	/	/	/	/	/	571.87	571.84	571.48	571.23	571.87
25	/	/	/	/	/	/	/	571.63	571.70	571.40	571.30	571.41
26	/	/	/	/	/	/	/	571.70	571.71	571.35	571.21	571.06
27	/	/	/	/	/	/	/	571.62	572.19	571.39	572.36	571.65
28	/	/	/	/	/	/	/	571.66	572.11	571.53	571.72	571.19
29	/		/	/	/	/	/	571.74	571.64	571.34	571.52	571.51
30	/		/	/	/	/	/	571.79	571.46	571.40	571.24	571.34
31	/		/		/		/	571.76		571.53		571.03
MEAN	571.14	/	/	/	/	/	/	571.87	571.86	571.69	571.57	571.40
MAX.	571.58							572.61	572.90	574.47	573.84	573.00
	2400/04							1400/15	2000/19	1400/18	0600/27	1900/27
MIN.	570.58							571.32	570.77	570.75	570.29	570.43
	0100/01							0300/25	2200/21	0400/22	0200/20	0400/23

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 571.59

ANNUAL SUMMARY OF LEVELS, 1981

Station 3038: Erie, Pennsylvania on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	572.32	Jun	570.64	Jan
Daily mean elevation:	572.55	18 Oct	570.34	25 Jan
Instant/hourly Elevation:	573.85	1400/18 Oct	570.25	0600/21 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.44	2 Jan
	Feb
571.38	20 Mar
571.79	24 Apr
571.98	16 May
572.55	25 Jun
572.32	13 Jul
572.14	14 Aug
572.22	8 Sep
572.55	18 Oct
572.24	6 Nov
	Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.34	25 Jan
	Feb
571.10	22 Mar
570.85	12 Apr
571.63	3 May
572.03	19 Jun
572.04	24 Jul
571.74	28 Aug
571.51	30 Sep
571.35	22 Oct
571.40	13 Nov
	Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.40						4				2			572.40	6
572.20						5	7		1	2	1		572.20	22
572.00						3	15	5	7	2			572.00	54
571.80					6			9	15	3	1		571.80	88
571.60				4	13			2	6	7	6		571.60	126
571.40	1			12					1	13	8		571.40	161
571.20	1		6	9						2	2		571.20	181
571.00			9	4									571.00	194
570.80	4			1									570.80	199
570.60	7												570.60	206
570.40	9												570.40	215
570.20	7												570.20	222

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3038: Erie, Pennsylvania on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570.99	/	/	571.36	571.69	/	572.19	572.10*	571.82	572.18	571.60	/
2	571.44*	/	/	571.13	571.72	/	572.24	572.13*	571.89	572.28	571.64	/
3	/	/	/	571.17	571.63	/	572.28	/	571.86	571.96	571.56	/
4	/	/	/	571.13	571.68	/	/	/	572.12	571.78	571.60	/
5	570.99*	/	/	571.45	571.74	/	/	/	572.07	571.85	571.62	/
6	570.97	/	/	571.33	571.71	/	/	/	571.99	572.39	572.24	/
7	571.25	/	/	571.22	571.71	/	/	/	572.00	572.43	571.90	/
8	570.82	/	/	571.23	571.65	/	/	/	572.22	571.82	571.63	/
9	570.78	/	/	571.27	571.71	/	/	/	572.11	571.63	571.51	/
10	570.79	/	/	571.23	571.66	/	/	/	572.12	571.54	571.58	/
11	570.71	/	/	571.24	571.76	/	/	/	571.99	571.59	571.62	/
12	570.69	/	/	570.85	571.94	/	/	/	571.97	571.47	571.40	/
13	570.58	/	/	571.19	571.87	/	572.32*	/	571.84	571.59	571.40	/
14	570.53	/	/	571.45	571.69	/	572.24	572.14*	571.96	571.62	571.42	/
15	570.51	/	/	571.47	571.85	/	572.18	571.97*	571.80	571.72	571.43	/
16	570.61	/	/	571.42	571.98	/	572.12	572.09	571.69	571.68	571.50	/
17	570.60	/	571.26*	571.49	571.83	/	572.14	572.01	571.93	571.54	571.63	/
18	570.58	/	571.21	571.58	571.77	/	572.12	571.93	571.96	572.55	571.72*	/
19	570.46	/	571.21	571.51	571.81	572.03*	572.15	571.88	572.18	572.02	/	/
20	570.37	/	571.38	571.50	/	572.10	572.20	571.92	572.00	571.74	/	/
21	570.39	/	571.17	571.37	/	572.20	572.29*	571.89	571.66	571.35	/	/
22	570.69	/	571.10	571.37	/	572.53	572.17*	571.92*	571.82	571.35	/	/
23	570.41	/	571.13	571.59	/	572.41	572.07	571.95*	571.88	571.79	/	/
24	570.40	/	571.18	571.79	/	572.31	572.04	/	571.90	571.52	/	/
25	570.34	/	571.18	571.68	/	572.55	572.08	/	571.78	571.45	/	/
26	570.62	/	571.15	571.55	/	572.46	572.18	/	571.80	571.41	/	/
27	570.48	/	571.26	571.56	/	572.33	572.14	/	572.16	571.53	/	/
28	570.38	/	571.17	571.46	/	572.32	572.21	571.74*	572.08	571.60	/	/
29	570.48		571.20	571.76	/	572.31	572.28	571.78	571.68	571.45	/	/
30	570.38		571.26	571.70	/	572.32	572.15	571.82	571.51	571.49	/	/
31	570.36		571.19		/		572.12*	571.81		571.54		/
MEAN	570.64	/	571.20	571.40	571.76	572.32	572.18	571.94	571.93	571.74	571.61	/
MAX.	571.67		571.77	572.21	572.14	573.38	572.65	572.37	572.77	573.85	572.87	
	1400/02		1200/17	1100/14	2400/11	1400/22	1700/26	0200/16	1600/19	1400/18	1000/06	
MIN.	570.25		570.94	570.37	571.31	571.95	571.82	571.61	571.07	570.97	571.15	
	0600/21		1200/22	1100/12	0300/11	2200/20	0400/28	2400/19	2400/30	0300/22	2100/13	

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 571.67

ANNUAL SUMMARY OF LEVELS, 1981
Station 3053: Fairport Harbor, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	572.27	Jul	570.64	Jan
Daily mean elevation:	572.40	25 Jun	570.38	1 Feb
Instant/hourly Elevation:	572.76	1900/25 Jun	570.13	2000/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.11	1 Jan
571.17	28 Feb
571.40	16 Mar
571.73	30 Apr
571.97	15 May
572.40	25 Jun
572.37	1 Jul
572.21	16 Aug
572.15	22 Sep
572.13	2 Oct
571.82	6 Nov
571.74	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.40	26 Jan
570.38	1 Feb
571.08	15 Mar
571.13	4 Apr
571.74	4 May
571.83	3 Jun
572.15	18 Jul
571.89	31 Aug
571.71	30 Sep
571.39	20 Oct
571.40	30 Nov
571.11	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.20						13	24	1					572.20	38
572.00						9	7	20	11	1			572.00	86
571.80					24	8		10	18	9	1		571.80	156
571.60				6	7				1	16	12	3	571.60	201
571.40				10						1	14	10	571.40	236
571.20			25	8						1	1	16	571.20	287
571.00	2	6	6	6								1	571.00	308
570.80	3	3											570.80	314
570.60	10	4											570.60	328
570.40	15	14											570.40	357
570.20	1	1											570.20	359

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3053: Fairport Harbor, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.11	570.38	571.22	571.24	571.78	571.87	572.37	572.18	571.90	571.99	571.68	571.37
2	571.01	570.58	571.21	571.20	571.75	571.83	572.35	572.16	571.94	572.13	571.69	571.30
3	570.96	570.56	571.19	571.13	571.75	571.83	572.33	572.16	571.99	571.93	571.68	571.40
4	570.93	570.57	571.16	571.13	571.74	571.88	572.33	572.17	572.06	571.79	571.65	571.51
5	570.76	570.52	571.29	571.25	571.76	571.91	572.35	572.15	572.07	571.82	571.67	571.50
6	570.74	570.56	571.27	571.21	571.90	571.89	572.34	572.15	572.09	571.87	571.82	571.40
7	570.82	570.51	571.27	571.19	571.82	571.91	572.31	572.09	572.05	571.91	571.70	571.35
8	570.75	570.65	571.24	571.17	571.77	571.90	572.31	572.13	572.14	571.87	571.59	571.73
9	570.74	570.55	571.23	571.20	571.79	572.04	572.32	572.16	572.06	571.78	571.68	571.74
10	570.70	570.45	571.23	571.22	571.84	572.01	572.33	572.14	571.84	571.82	571.62	571.74
11	570.71	570.67	571.29	571.22	571.89	572.04	572.29	572.17	571.95	571.85	571.56	571.55
12	570.67	570.57	571.17	571.40	571.85	572.04	572.27	572.20	571.92	571.81	571.60	571.43
13	570.67	570.57	571.29	571.35	571.85	572.06	572.28	572.17	571.92	571.75	571.55*	571.36
14	570.66	570.56	571.27	571.36	571.87	572.12	572.33	572.15	571.93	571.67	/	571.40
15	570.62	570.56	571.08	571.42	571.97	572.17	572.23	572.15	571.98	571.70	/	571.45
16	570.59	570.57	571.40	571.43	571.90	572.18	572.18	572.21	572.02	571.75	571.49*	571.51*
17	570.58	570.60	571.26	571.47	571.85	572.25	572.16	572.14	572.05	571.64	571.50	/
18	570.53	570.65	571.20	571.50	571.87	572.22	572.15	572.09	572.03	571.57	571.52	571.49*
19	570.53	570.73	571.24	571.54	571.85	572.22	572.16	572.07	571.98	571.66	571.50	571.53
20	570.54	570.88	571.33	571.64	571.86	572.20	572.20	572.06	571.97	571.39	571.66	571.37
21	570.52	570.89	571.27	571.54	571.85	572.21	572.31	572.02	571.93	571.65	571.71	571.11
22	570.46	570.95	571.25	571.57	571.85	572.35	572.28	571.99	572.15	571.67	571.61	571.24
23	570.49	571.03	571.26	571.59	571.87	572.32	572.23	571.98	572.02	571.69	571.51	571.44
24	570.47	571.06	571.23	571.65	571.89	572.32	572.22	571.99	571.88	571.63*	571.62*	571.21
25	570.45	571.12	571.24	571.63	571.85	572.40	572.16	571.97	571.85	/	571.46*	571.31
26	570.40	571.16	571.22	571.59	571.86	572.36	572.21	571.93	571.85	/	571.44	571.38
27	570.46	571.17	571.30	571.58	571.90	572.32	572.22	571.94	571.84	/	571.42	571.30
28	570.52	571.17	571.25	571.70	571.93	572.31	572.26	571.94	571.84	571.70*	571.48	571.42
29	570.52		571.24	571.69	571.88	572.29	572.33	571.90	571.81	571.73	571.45	571.39
30	570.47		571.19	571.73	571.88	572.33	572.23	571.89	571.71	571.71	571.40	571.30
31	570.45		571.29		571.88		572.20	571.89		571.73		571.29
MEAN	570.64	570.72	571.24	571.42	571.85	572.13	572.27	572.08	571.96	571.76	571.58	571.42
MAX.	571.25	571.33	571.66	572.51	572.25	572.76	572.62	572.49	572.44	572.48	572.32	572.07
	2400/01	1800/28	1000/16	0100/29	0600/15	1900/25	0700/21	2300/04	2300/19	1300/01	0500/20	2300/08
MIN.	570.13	570.20	570.94	570.89	571.63	571.64	571.99	571.71	571.25	570.96	570.95	570.86
	2000/26	1500/01	1300/17	1300/09	0400/09	1800/03	1700/26	0500/30	2300/30	1400/18	1100/20	1800/21

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 571.59

ANNUAL SUMMARY OF LEVELS, 1981
Station 3063: Cleveland, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	572.25	Jul	570.72	Feb
Daily mean elevation:	572.43	1 Jul	570.34	3 Feb
Instant/hourly Elevation:	572.69	1800/25 Jun	569.98	2100/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.15	1 Jan
571.21	27 Feb
571.50	16 Mar
571.78	30 Apr
572.07	28 May
572.40	26 Jun
572.43	1 Jul
572.21	16 Aug
572.17	22 Sep
572.10	2 Oct
571.73	9 Nov
571.66	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.38	26 Jan
570.34	3 Feb
571.03	15 Mar
571.14	4 Apr
571.80	9 May
571.95	8 Jun
572.10	19 Jul
571.80	30 Aug
571.66	10 Sep
571.13	18 Oct
571.12	27 Nov
570.83	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.40							1						572.40	1
572.20						15	19	1					572.20	36
572.00					7	8	11	20	9	1			572.00	92
571.80					23	7		9	16	9			571.80	156
571.60				13	1			1	5	16	10	3	571.60	205
571.40			1	6						3	15	6	571.40	236
571.20		1	27	9							4	15	571.20	292
571.00	3	6	3	2						2	1	5	571.00	314
570.80	12	2										2	570.80	330
570.60	10	4											570.60	344
570.40	5	13											570.40	362
570.20	1	2											570.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3063: Cleveland, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.15	570.48	571.22	571.26	571.86	572.03	572.43	572.13	571.84	571.83	571.66	571.33
2	571.05	570.40	571.27	571.30	571.84	571.99	572.36	572.11	571.93	572.10	571.69	571.05
3	571.05	570.34	571.25	571.17	571.84	571.99	572.33	572.13	571.96	571.90	571.72	571.30
4	570.95	570.58	571.22	571.14	571.82	571.95	572.32	572.08	571.95	571.80	571.66	571.51
5	570.82	570.52	571.39	571.35	571.82	572.00	572.32	572.08	572.05	571.82	571.64	571.47
6	570.76	570.54	571.31	571.30	572.05	571.96	572.33	572.14	572.07	571.76	571.70	571.37
7	570.89	570.56	571.29	571.29	571.90	571.98	572.28	572.05	572.03	571.85	571.60	571.21
8	570.91	570.63	571.30	571.26	571.86	571.95	572.27	572.09	572.08	571.89	571.54	571.62
9	570.94	570.59	571.27	571.24	571.80	572.06	572.28	572.10	571.99	571.85	571.73	571.63
10	570.95	570.49	571.27	571.27	571.90	572.06	572.31	572.07	571.66	571.93	571.56	571.66
11	570.98	570.56	571.31	571.27	571.98	572.11	572.27	572.10	571.86	571.92	571.53	571.48
12	570.93	570.49	571.13	571.64	571.91	572.14	572.25	572.12	571.87	571.91	571.62	571.39
13	570.99	570.56	571.33	571.41	571.90	572.17	572.21	572.08	571.89	571.78	571.56	571.30
14	570.97	570.58	571.27	571.45	571.98	572.17	572.33	572.10	571.86	571.67	571.58	571.36
15	570.90	570.58	571.03	571.53	571.96	572.19	572.22	572.03	571.98	571.67	571.60	571.39
16	570.83	570.56	571.50	571.55	571.95	572.25	572.18	572.21	572.04	571.77	571.53	571.30
17	570.79	570.61	571.26	571.56	572.02	572.31	572.12	572.13	572.07	571.62	571.51	571.54
18	570.72	570.65	571.22	571.54	572.02	572.32	572.12	572.09	572.04	571.13	571.52	571.39
19	570.72	570.75	571.29	571.63	571.97	572.33	572.10	572.10	571.86	571.55	571.56	571.41
20	570.79	570.92	571.34	571.78	571.94	572.33	572.13	572.06	571.92	571.20	571.44	571.18
21	570.74	570.92	571.31	571.69	571.92	572.26	572.28	572.01	571.99	571.72	571.64	570.83
22	570.45	571.02	571.31	571.70	571.91	572.32	572.27	571.97	572.17	571.74	571.53	571.20
23	570.62	571.02	571.28	571.69	571.96	572.34	572.24	571.92	572.04	571.66	571.49	571.35
24	570.58	571.03	571.24	571.74	571.96	572.37	572.20	571.94	571.86	571.59	571.62	570.98
25	570.55	571.12	571.24	571.72	571.92	572.34	572.12	571.98	571.83	571.56	571.49	571.20
26	570.38	571.19	571.23	571.68	571.92	572.40	572.19	571.90	571.72	571.67	571.38	571.39
27	570.52	571.21	571.28	571.68	572.02	572.38	572.20	571.92	571.69	571.76	571.12	571.14
28	570.62	571.12	571.27	571.68	572.07	572.34	572.24	571.90	571.77	571.75	571.40	571.42
29	570.65		571.23	571.68	572.04	572.30	572.31	571.84	571.81	571.77	571.38	571.30
30	570.63		571.20	571.78	572.03	572.36	572.20	571.80	571.79	571.75	571.35	571.22
31	570.58		571.31		572.00		572.19	571.83		571.70		571.23
MEAN	570.79	570.72	571.27	571.50	571.94	572.19	572.25	572.03	571.92	571.73	571.54	571.33
MAX.	571.31	571.33	571.93	572.02	572.21	572.69	572.66	572.46	572.54	572.43	572.35	572.09
	0700/04	0500/25	0400/16	0900/20	0600/06	1800/25	1900/09	2200/15	2400/19	1000/02	0500/20	2100/08
MIN.	569.98	570.02	570.88	570.85	571.61	571.70	571.89	571.57	571.33	570.15	570.23	570.41
	2100/26	1500/02	0400/17	1600/04	0600/09	1500/09	0700/21	0600/30	1000/10	1600/18	1200/20	2100/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 571.60

ANNUAL SUMMARY OF LEVELS, 1981

Station 3079: Marblehead, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	572.31	Jul	570.52	Jan
Daily mean elevation:	572.63	1 Jul	569.45	2 Feb
Instant/hourly Elevation:	572.97	2000/1 Jul	568.81	1700/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.01	1 Jan
571.26	27 Feb
571.44	16 Mar
571.97	12 Apr
572.20	6 May
572.43	27 Jun
572.63	1 Jul
572.27	19 Aug
572.20	22 Sep
572.12	12 Oct
571.77	9 Nov
571.63	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.00	26 Jan
569.45	2 Feb
570.79	15 Mar
570.94	5 Apr
571.78	12 May
571.85	8 Jun
572.08	19 Jul
571.78	30 Aug
571.35	27 Sep
570.14	18 Oct
570.48	27 Nov
570.56	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.60							1						572.60	1
572.40						2	4						572.40	7
572.20						8	20	6					572.20	41
572.00					6	11	6	13	9	3			572.00	89
571.80				2	22	9		10	12	7			571.80	151
571.60				4	3			2	5	11	9	1	571.60	186
571.40			1	5					2	5	10	3	571.40	212
571.20		1	12	6					2	1	7	13	571.20	254
571.00	1	4	13	5						2	2	9	571.00	290
570.80	1	3	4	2						1		2	570.80	303
570.60	9	4	1								1	2	570.60	320
570.40	13	7									1	1	570.40	342
570.20	4	3											570.20	349
570.00	1	2								1			570.00	353
569.80	1	2											569.80	356
569.60													569.60	356
569.40		2											569.40	358

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3079: Marblehead, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.01	570.43	571.15	571.04	571.90	572.08	572.63	572.21	571.85	571.52	571.68	571.59
2	570.72	569.45	570.98	571.30	571.79*	571.97	572.57	572.11	571.98	571.62	571.68	570.65
3	570.85	569.60	571.12	571.06	571.87	571.91	572.48	572.12	572.07	571.76	571.77	571.24
4	/	570.25	571.20	570.98	571.81	571.90	572.35	572.04	571.70	571.78	571.69	571.54
5	570.53*	570.36	571.34	570.94	571.83	571.94	572.36	572.08	571.98	571.73	571.55	571.30
6	570.42	570.16	571.21	571.18	572.20	571.86	572.38	572.21	572.09	571.20	571.08	571.25
7	570.43	570.45	571.11	571.23	571.95	571.94	572.33	572.14	572.05	571.42	571.34	571.09
8	570.72	569.90	571.23	571.14	571.93	571.85	572.28	571.94*	571.89	571.81	571.46	571.10
9	570.63	570.27	571.18	571.18	571.78	571.87	572.25	572.06*	571.88	571.92	571.77	571.25
10	570.65	570.69	571.19	571.27	571.96	571.96	572.38	572.04	571.38	572.07	571.46	571.21
11	570.64	569.90	571.12	571.30	571.94	572.04	572.31	572.00	571.71	572.03	571.36	571.28
12	570.51	570.17	570.92	571.97	571.78	572.10	572.28	572.07	571.79	572.12	571.72	571.40
13	570.69	570.57	571.16	571.45	571.81	572.13	572.25	571.99	571.92	571.88	571.61	571.26
14	570.72	570.57	571.06	571.36	572.15	572.12	572.48	572.03	571.79	571.71	571.59	571.35
15	570.66	570.59	570.79	571.51*	571.91	572.10	572.34	571.95	572.06	571.59	571.59	571.31
16	570.48	570.55	571.44	571.48*	571.86	572.08	572.30	572.27	572.12	571.68	571.50	571.03
17	570.36*	570.60	570.95	571.41	572.08	572.20	572.17	572.25	572.08	571.63	571.32	571.63
18	570.34	570.66	571.20	571.36*	572.13	572.26	572.17	572.25*	572.15	570.14	571.36	571.10
19	570.45	570.74	571.22	/	572.05	572.26	572.08	572.27	571.52	571.17	571.67	571.06
20	570.65	570.76	570.95	/	571.91	572.41	572.09	572.16	571.91	570.93	570.70	570.92
21	570.57	570.88	571.29	/	571.86	572.20	572.37	572.12	571.92*	571.89	571.10	570.64
22	570.04	571.10	571.38	/	571.84	572.09	572.37	572.02	572.20*	571.86	571.22	571.22
23	570.44	571.01	571.31	/	571.93	572.32	572.41	571.89	572.01	571.34	571.47	571.14
24	570.44	570.86	571.22	571.48*	571.93	572.35	572.32	571.96	571.85	571.56	571.75	570.56
25	570.51	571.05	571.21	571.65*	571.84	572.17	572.23	572.11	571.87	571.56	571.56	571.07
26	570.00	571.17	571.20	/	571.86	572.36	572.17	571.95	571.71*	571.71	571.50	571.47
27	570.36	571.26	571.24	571.62*	572.05	572.43	572.35	571.99	571.35	571.80	570.48	570.86
28	570.46	570.99	571.29	571.77	571.98	572.35	572.15	571.95	571.54	571.72	571.21	571.40
29	570.37		571.17	571.68	571.92	572.30	572.31	571.87	571.83	571.92	571.28	571.07
30	570.53		571.11	571.86*	571.95	572.40	572.29	571.78	572.00	571.82	571.46*	571.18
31	570.55		571.31		571.96		572.30	571.80		571.74		571.34
MEAN	570.52	570.54	571.17	571.38	571.93	572.13	572.31	572.05	571.87	571.63	571.43	571.18
MAX.	571.31	571.44	572.18	572.53	572.44	572.82	572.97	572.76	572.89	572.51	572.55	572.11
	0300/01	1800/27	0600/16	1400/12	0700/18	2300/22	2000/01	0300/17	2300/30	0200/01	0200/20	0300/01
MIN.	569.57	568.89	570.26	570.53	571.53	571.39	571.64	571.38	570.70	568.81	569.34	569.66
	0500/22	1100/02	0700/17	1200/04	1400/12	1200/22	1200/28	1200/15	1100/10	1700/18	1200/20	2100/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 571.51

ANNUAL SUMMARY OF LEVELS, 1981
Station 3085: Toledo, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	572.28	Jul	570.58	Jan
Daily mean elevation:	572.85	1 Jul	569.15	18 Oct
Instant/hourly Elevation:	574.17	2300/21 Sep	566.88	1800/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.99	1 Jan
571.45	27 Feb
571.55	22 Mar
572.40	12 Apr
572.63	14 May
572.53	30 Jun
572.85	1 Jul
572.43	19 Aug
572.59	21 Sep
572.41	12 Oct
571.98	24 Nov
571.92	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.13	26 Jan
569.59	2 Feb
570.51	15 Mar
570.40	5 Apr
571.64	12 May
571.67	9 Jun
571.97	28 Jul
571.74	31 Aug
570.74	27 Sep
569.15	18 Oct
569.88	27 Nov
570.19	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.80							1						572.80	1
572.60					1		1						572.60	3
572.40					2	3	5	2	1	1			572.40	17
572.20				1	3	8	13	7	4	3			572.20	56
572.00				2	6	7	7	8	7	4			572.00	97
571.80				3	16	8	4	12	8	9	5	2	571.80	164
571.60				4	3	4		2	3	5	9	2	571.60	196
571.40		1	3	5					2	1	4	4	571.40	216
571.20		2	11	5					2		5	7	571.20	248
571.00		2	7	4					2	3	3	3	571.00	272
570.80	2	6	5	3						1		7	570.80	296
570.60	14	6	3	1					1	3	1	3	570.60	328
570.40	13	4	2	1							1	1	570.40	350
570.20		3		1								1	570.20	355
570.00	2	1									1	1	570.00	360
569.80		1									1		569.80	362
569.60		1											569.60	363
569.40		1											569.40	364
569.20													569.20	364
569.00										1			569.00	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3085: Toledo, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570.99	570.58	571.10	570.59	572.09	572.27	572.85	572.25	571.87	571.06	571.76	571.92
2	570.64	569.59	570.78	571.38	571.84	572.04	572.70	572.15	572.08	571.20	571.76	570.23
3	570.83	569.71	571.04	570.97	572.00	571.87	572.46	572.09	572.32	571.79	571.91	571.24
4	570.43	570.34	571.27	570.74	571.84	571.88	572.30	571.90	571.39	571.89	571.80	571.61
5	570.61	570.48	571.35	570.40	571.88	571.91	572.32	572.10	571.92	571.76	571.56	571.23
6	570.56	570.33	571.23	571.10	572.46	571.77	572.38	572.30	572.13	570.64	570.48	571.26
7	570.42	570.59	571.00	571.20	572.09	571.99	572.27	572.11	572.11	571.01	571.19	571.03
8	570.77	570.02	571.24	571.00	572.17	571.78	572.15	571.83	571.59	571.84	571.48	570.60
9	570.70	570.42	571.16	571.12	571.81	571.67	572.09	571.98	571.75	572.12	571.86	570.93
10	570.70	570.82	571.18	571.26	572.22	571.83	572.37	572.02	571.17	572.31	571.40	570.87
11	570.69	570.00	570.95	571.34	572.00	571.98	572.26	571.85	571.60	572.14	571.38	571.18
12	570.63	570.23	570.68	572.40	571.64	572.12	572.16	571.99	571.77	572.41	571.90	571.45
13	570.79	570.65	570.99	571.59	571.77	572.17	572.13	571.87	571.95	572.12	571.72	571.29
14	570.78	570.63	570.85	571.22	572.63	572.11	572.44	571.97	571.84	571.83	571.67	571.42
15	570.73	570.65	570.51	571.58	571.94	572.09	572.37	571.86	572.14	571.54	571.65	571.27
16	570.58	570.64	571.31	571.49	571.83	571.98	572.35	572.32	572.19	571.71	571.59	570.86
17	570.47	570.68	570.66	571.37	572.32	572.16	572.15	572.41	572.15	571.83	571.27	571.81
18	570.44	570.77	571.18	571.54	572.43	572.24	572.15	572.39	572.22	569.15	571.32	570.85
19	570.54	570.88	571.12	571.63	572.27	572.24	571.99	572.43	571.19	570.79	571.96	570.77
20	570.69	570.81	570.60	572.11	571.94	572.53	572.00	572.27	571.93	570.70	570.13	570.83
21	570.61	571.00	571.33	572.11	571.86	572.16	572.35	572.23	572.59	572.22	570.61	570.65
22	570.13	571.25	571.55	571.94	571.87	571.71	572.35	572.09	572.39	571.99	571.04	571.34
23	570.51	571.15	571.42	571.15	571.98	572.32	572.46	571.85	572.06	571.00	571.59	571.00
24	570.52	570.85	571.30	570.98	571.95	572.34	572.33	571.97	571.85	571.62	571.98	570.19
25	570.61	571.11	571.29	571.48	571.80	571.86	572.24	572.25	571.93	571.66	571.75	571.08
26	570.13	571.27	571.26	571.76	571.86	572.37	571.99	572.04	571.70	571.89	571.68	571.64
27	570.45	571.45	571.25	571.73	572.17	572.50	572.42	572.10	570.74	571.87	569.88	570.70
28	570.53	570.87	571.36	571.93	571.98	572.37	571.97	571.98	571.34	571.83	571.07	571.46
29	570.41		571.10	571.61	571.92	572.27	572.13	571.91	571.89	572.24	571.22	570.96
30	570.58		570.95	571.86	572.04	572.53	572.28	571.75	572.40	572.02	571.74	571.25
31	570.61		571.42		572.04		572.42	571.74		571.91		571.50
MEAN	570.58	570.63	571.11	571.42	572.02	572.10	572.28	572.06	571.87	571.62	571.41	571.11
MAX.	571.42	571.71	572.41	573.37	573.20	573.36	573.47	573.33	574.17	573.80	573.76	573.31
	2400/02	2100/27	0500/16	1200/12	0800/18	2300/22	1900/01	0200/17	2300/21	0200/01	0100/20	0400/01
MIN.	569.62	568.87	569.38	569.64	571.26	570.27	571.19	570.75	569.89	566.88	567.79	569.12
	2100/04	1400/02	0700/17	1100/04	1300/12	1100/22	1300/26	1200/15	1800/27	1800/18	1400/20	1200/08

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 571.52

ANNUAL SUMMARY OF LEVELS, 1981
Station 3087: Monroe, Michigan on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	572.31	Jul	570.54	Jan
Daily mean elevation:	572.77	1 Jul	569.65	18 Oct
Instant/hourly Elevation:	573.61	0200/20 Nov	567.23	1700/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.77	1 Jan
571.42	27 Feb
571.48	31 Mar
572.22	12 Apr
572.34	14 May
572.50	27 Jun
572.77	1 Jul
572.34	18 Aug
572.39	21 Sep
572.26	12 Oct
571.86	19 Nov
571.96	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.15	26 Jan
569.65	2 Feb
570.66	20 Mar
570.56	5 Apr
571.65	12 May
571.73	9 Jun
572.04	28 Jul
571.78	30 Aug
570.95	27 Sep
569.65	18 Oct
570.09	27 Nov
570.40	24 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.60							2						572.60	2
572.40						5	3						572.40	10
572.20				1	3	8	18	9	2	1			572.20	52
572.00				1	8	7	8	12	8	5			572.00	101
571.80				4	18	8		9	11	8	3	1	571.80	163
571.60				4	2	2		1	3	8	10	2	571.60	195
571.40		1	3	8					2	1	6	4	571.40	220
571.20		1	9	6					3		3	7	571.20	249
571.00		3	6	4						1	4	6	571.00	273
570.80		4	2	1					1	4		4	570.80	289
570.60	6	8	3							1	1	4	570.60	312
570.40	13	3		1							1	2	570.40	332
570.20	1	4									1	1	570.20	339
570.00	2	1									1		570.00	343
569.80		1											569.80	344
569.60		2								1			569.60	347
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3087: Monroe, Michigan on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570.77	570.57	571.12	570.83	571.96	572.26	572.77	572.27	571.90	/	571.76	571.96
2	570.43	569.65	570.80	571.43	571.83	572.07	572.68	572.20	572.00	571.14	571.72	570.42
3	570.70*	569.72	571.06	571.22	572.04	571.95	572.49	572.19	572.16	571.76	571.84	571.24
4	/	570.30	571.30	571.12	571.89	571.90	572.37	571.96	571.41	571.91	571.78	571.48
5	/	570.44	571.25	570.56	571.81	571.97	572.34	572.12	571.91	571.75	571.60	571.19
6	/	570.31	571.20	571.13	571.99	571.80	572.39	572.31	572.11	570.75	570.53	571.29
7	/	570.57	570.95	571.33	572.01	572.02	572.33	572.21	572.13	570.96	571.20	571.09
8	/	570.01	/	571.26	572.11	571.91	572.22	571.97	571.59	571.81	571.50	570.53
9	/	570.40	/	571.16	571.88	571.73	572.12	572.04	571.78	572.07	571.69	570.75
10	/	570.80	/	571.37	572.05	571.86	572.39	572.06	571.37	572.20	571.42	570.77
11	/	569.95	/	571.30	571.85	571.99	572.32	571.92	571.70	572.04	571.39	571.10
12	/	570.25	/	572.22	571.65	572.14	572.26	572.04	571.80	572.26	571.83	571.41
13	570.67*	570.62	/	571.59	571.82	572.22	572.16	571.97	572.00	572.05	571.70	571.27
14	570.76	570.63	/	571.45*	572.34	572.17	572.39	572.06	571.85	571.87	571.64	571.40
15	570.71	570.65	/	571.50	571.87	572.13	572.37	571.93	572.08	571.53	571.60	571.24
16	570.58	570.65	570.87*	571.53	571.80	571.99	572.34	572.17	572.12	571.65	571.56	570.90
17	570.46	570.67	570.66	571.48	572.21	572.11	572.19	572.30	572.05	571.92	571.28	571.68
18	570.42	570.74	571.14	571.57	572.22	572.31	572.24	572.34	572.10	569.65	571.28	570.83
19	570.54	570.82*	571.09	571.64	572.13	572.26	572.12	572.33	571.31	570.91	571.86	570.76
20	570.67	570.73	570.66	571.85	571.95	572.50	572.05	572.22	571.87	570.97	570.33	570.92
21	570.60	570.94	571.33	572.03	571.88	572.25	572.32	572.22	572.39	571.98	570.65	570.88
22	570.16	571.21	571.45	571.93	571.88	571.81	572.32	572.09	572.16	571.84	571.08	571.29
23	570.50	571.18	571.35	571.34	571.99	572.30	572.46	571.88	571.97	570.98	571.57	571.01
24	570.51	570.93	571.29	571.07	571.99	572.50*	572.34	571.96	571.86	571.64	571.80	570.40
25	570.60	571.08	571.26	571.48	571.87	572.05*	572.28	572.22	571.96	571.64	571.75	571.12
26	570.15	571.19	571.32	571.76	571.92	572.34	572.04	572.05	571.84	571.78	571.78	571.63
27	570.47	571.42	571.18	571.73	572.08	572.50	572.33	572.15	570.95	571.74	570.09	570.78
28	570.52	570.94	571.42	572.00	571.95	572.44	572.04	572.10	571.38	571.74	571.02	571.44
29	570.40		571.26	571.63	572.01	572.35	572.16	571.98	571.89	572.11	571.20	571.03
30	570.55		571.21	571.85	571.99	572.43	572.31	571.78	572.34	571.95	571.75	571.27
31	570.60		571.48		572.02		572.43	571.84		571.88		571.50
MEAN	570.54	570.62	571.16	571.48	571.97	572.14	572.31	572.09	571.87	571.62	571.41	571.12
MAX.	571.18	571.70	571.98	573.06	572.74	573.15	573.28	573.05	573.32	572.83	573.61	573.34
	2400/02	2000/27	1700/31	1100/12	0800/18	2200/22	1800/01	1200/16	2300/21	1900/12	0200/20	0400/01
MIN.	569.58	568.94	569.38	569.99	571.18	570.51	571.23	570.83	570.23	567.23	567.99	569.14
	0600/22	1300/02	0800/17	1000/14	0100/12	1100/22	1100/26	1200/15	2300/27	1700/18	1400/20	1200/08

ANNUAL MEAN: 571.53

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 3090: Fermi Power Plant, Stony Point, Michigan on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	572.23	Jul	570.53	Jan
Daily mean elevation:	572.61	1 Jul	569.63	2 Feb
Instant/hourly Elevation:	573.43	0200/20 Nov	567.59	1800/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.92	1 Jan
571.36	27 Feb
571.38	31 Mar
572.08	12 Apr
572.17	14 May
572.42	27 Jun
572.61	1 Jul
572.26	18 Aug
572.30	21 Sep
572.19	12 Oct
571.79	19 Nov
571.97	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.10	22 Jan
569.63	2 Feb
570.60	17 Mar
570.51	5 Apr
571.62	12 May
571.71	9 Jun
572.00	28 Jul
571.80	30 Aug
571.00	27 Sep
569.74	18 Oct
570.12	27 Nov
570.44	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.60							1						572.60	1
572.40						1	2						572.40	4
572.20						8	16	2	2				572.20	32
572.00				1	5	8	11	14	6	5			572.00	82
571.80				3	18	9	1	14	12	7		1	571.80	147
571.60				4	8	4		1	4	10	12		571.60	190
571.40				8					2	1	7	5	571.40	213
571.20		1	10	6					3		3	8	571.20	244
571.00		4	12	6						4	4	6	571.00	280
570.80	1	3	5	1					1	2		4	570.80	297
570.60	9	5	3							1	1	4	570.60	320
570.40	15	7	1	1							1	3	570.40	348
570.20	4	4									1		570.20	357
570.00	2										1		570.00	360
569.80		2											569.80	362
569.60		2								1			569.60	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3090: Fermi Power Plant, Stony Point, Michigan on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570.92	570.52	571.10	570.84	571.86	572.15	572.61	572.19	571.87	571.20	571.69	571.97
2	570.58	569.63	570.76	571.36	571.77	571.99	572.55	572.12	571.95	571.10	571.66	570.51
3	570.76	569.72	571.02	571.19	571.96	571.88	572.41	572.09	572.07	571.72	571.77	571.25
4	570.38	570.29	571.25	571.20	571.82	571.87	572.28	571.92	571.39	571.89	571.70	571.45
5	570.58	570.42	571.18	570.51	571.75	571.91	572.27	572.00	571.84	571.74	571.59	571.18
6	570.54	570.29	571.14	571.06	571.86	571.76	572.31	572.20	572.04	570.77	570.47	571.27
7	570.37	570.53	570.91	571.31	571.92	571.94	572.25	572.14	572.06	570.96	571.18	571.10
8	570.71	569.98	571.18	571.23	572.03	571.86	572.18	571.90	571.57	571.74	571.49	570.53
9	570.65	570.37	571.14	571.13	571.79	571.71	572.09	571.99	571.77	572.01	571.64	570.70
10	570.64	570.73	571.16	571.29	571.92	571.80	572.29	572.05	571.41	572.14	571.45	570.70
11	570.63	569.97	570.91	571.31	571.80	571.94	572.24	571.89	571.68	571.98	571.36	571.06
12	570.58	570.22	570.88	572.08	571.62	572.06	572.19	572.01	571.75	572.19	571.78	571.37
13	570.71	570.58	570.92	571.50	571.77	572.14	572.11	571.92	571.94	572.01	571.66	571.26
14	570.71	570.58	570.86	571.11	572.17	572.09	572.29	572.00	571.75	571.82	571.60	571.36
15	570.67	570.58	570.76	571.43	571.77	572.09	572.26	571.89	572.00	571.53	571.59	571.23
16	570.53	570.60	571.06	571.50	571.77	571.95	572.24	572.06	572.06	571.64	571.52	570.90
17	570.41	570.63	570.60	571.44	572.09	572.05	572.12	572.22	571.99	571.88	571.26	571.60
18	570.40	570.69	571.10	571.46	572.12	572.24	572.11	572.26	572.03	569.74	571.28	570.84
19	570.49	570.74	571.03	571.55	572.03	572.18	572.07	572.20*	571.34	570.89	571.79	570.74
20	570.62	570.66	570.63	571.67	571.89	572.39	572.04	572.14	571.84	571.02	570.33	570.94
21	570.54	570.87	571.25	571.92	571.83	572.17	572.22	572.13	572.30	571.89	570.63	570.89
22	570.10	571.11	571.38	571.88	571.82	571.80	572.24	572.02	572.05	571.80	571.08	571.26
23	570.45	571.11	571.30	571.37	571.93	572.22	572.37	571.83	571.94	571.03	571.54	571.01
24	570.45	570.88	571.21	571.04	571.95	572.38	572.27	571.87	571.82	571.64	571.71	570.44
25	570.54	571.02	571.21	571.42	571.82	571.93	572.20	572.14	571.92	571.63	571.69	571.06
26	570.11	571.12	571.27	571.69	571.85	572.25	572.03	571.98	571.82	571.73	571.76	571.56
27	570.42	571.36	571.20	571.67	571.98	572.42	572.26	572.06	571.00	571.69	570.12	570.79
28	570.47	570.93	571.35	571.82	571.87	572.37	572.00	572.00	571.29	571.69	571.03	571.41
29	570.36		571.25	571.58	571.91	572.30	572.09	571.94	571.82	572.05	571.20	571.02
30	570.50		571.10	571.78	571.92	572.31	572.23	571.80	572.26	571.91	571.66	571.26
31	570.55		571.38		571.93		572.33	571.82		571.82		571.47
MEAN	570.53	570.58	571.08	571.41	571.89	572.07	572.23	572.03	571.82	571.58	571.37	571.10
MAX.	571.33	571.62	571.81	572.76	572.63	573.13	573.04	572.87	573.08	572.95	573.43	573.20
	2400/02	2000/27	1700/31	1100/12	0700/18	2200/22	1800/01	0300/17	2100/21	0100/01	0200/20	0400/01
MIN.	569.59	568.96	569.22	569.97	571.15	570.58	571.29	570.95	570.17	567.59	568.09	569.21
	0600/22	1300/02	0800/17	1200/14	0100/12	1100/22	1700/28	1200/15	2300/27	1800/18	1400/20	1200/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 571.47

ANNUAL SUMMARY OF LEVELS, 1981

Station 4020: Gibraltar, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	572.44	Jul	570.73	Jan
Daily mean elevation:	572.76	1 Jul	570.05	2 Feb
Instant/hourly Elevation:	573.73	0200/20 Nov	568.47	1800/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.90	13 Jan
571.55	27 Feb
571.58	31 Mar
572.18	12 Apr
572.25	14 May
572.62	27 Jun
572.76	1 Jul
572.43	18 Aug
572.42	30 Sep
572.33	12 Oct
572.07	26 Nov
572.24	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.36	22 Jan
570.05	2 Feb
570.80	17 Mar
570.74	5 Apr
571.78	12 May
571.92	9 Jun
572.25	20 Jul
572.06	30 Aug
571.30	27 Sep
570.32	18 Oct
570.45	27 Nov
570.70	8 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
572.60						1	3						572.60	4
572.40						8	18	4	1				572.40	35
572.20					3	8	10	13	5	2		1	572.20	77
572.00				4	16	10		7	15	9	1		572.00	139
571.80				3	11	3			3	12	10		571.80	181
571.60				9	1				4	1	8	3	571.60	207
571.40		1	8	8					1	1	3	9	571.40	238
571.20		4	12	4					1	4	4	8	571.20	275
571.00		4	8	1						1		4	571.00	293
570.80	9	11	2								1	5	570.80	321
570.60	14	3	1	1							2	1	570.60	343
570.40	2	1									1		570.40	347
570.20	1	3								1			570.20	352
570.00		1											570.00	353

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4020: Gibraltar, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	570.86	571.29	571.07	571.96	572.31	572.76	572.41	572.15	571.56	571.88	572.24
2	/	570.05	570.93	571.54	571.95	572.15	572.74	572.36	572.15	571.32	571.86	570.88
3	/	570.21	571.22	571.45	572.17	572.07	572.63	572.33	572.25	571.95	571.96	571.44
4	/	570.72	571.45	571.60	571.99	572.03	572.53	572.15	571.66	572.12	571.89	571.58
5	/	570.82	571.30	570.74	571.88	572.08	572.50	572.23	572.05	571.95	571.80	571.35
6	570.67*	570.69	571.30	571.24	571.85	571.93	572.51	572.41	572.24	571.84*	570.69	571.49
7	570.53	570.88	571.08	571.54	572.06	572.12	572.47	572.39	572.28	571.38*	571.38	571.32
8	570.89	570.37	571.35	571.53	572.17	572.08	572.39	572.15	571.78	571.92	571.70	570.70
9	570.83	570.67	571.33	571.30	571.97	571.92	572.30	572.23	572.01	572.18	571.75	570.82
10	570.83	571.03	571.33	571.49	572.02	572.00	572.51	572.28	571.76	572.29	571.68	570.83
11	570.82	570.39	571.08	571.47	571.90	572.13	572.45	572.12	571.94	572.14	571.53	571.21
12	570.76	570.60	571.11	572.18	571.78	572.24	572.42	572.23	572.00	572.33	571.92	571.53
13	570.90	570.93	571.07	571.68	571.96	572.33	572.33	572.16	572.17	572.20	571.81	571.44
14	570.89	570.89	571.06	571.27	572.25	572.28	572.46	572.25	571.98	572.06	571.75	571.52
15	570.86	570.89	571.01	571.63	571.92	572.30	572.46	572.15	572.19	571.74	571.75	571.37
16	570.74	570.92	571.15	571.72	571.94	572.15	572.44	572.22	572.22	571.83	571.69	571.09
17	570.68	570.94	570.80	571.66	572.21	572.24	572.35	572.42	572.16	572.13	571.45	571.70
18	570.64	570.96	571.26	571.63	572.23	572.47	572.35	572.43	572.19	570.32	571.45	571.01
19	570.74	570.97	571.17	571.74	572.16	572.36	572.34	572.21*	571.62	571.14	571.93	570.90
20	570.83	570.86	570.82	571.75	572.04	572.56	572.25*	/	572.02	571.38	570.74	571.17
21	570.77	571.08	571.42	572.08	572.01	572.38	572.44*	/	572.40	571.98	570.81	571.34
22	570.36	571.35	571.51	572.06	571.99	572.03	572.43	/	572.18	571.93	571.28	571.50
23	570.70	571.37	571.43	571.62	572.09	572.43	572.56	/	572.11	571.27	571.70	571.21
24	570.72	571.11	571.38	571.23	572.11	572.60	572.47	/	572.03	571.86	571.83	570.82
25	570.80	571.21	571.38	571.56	572.01	572.17	572.42	/	572.13	571.84	571.88	571.38
26	570.41	571.29	571.47	571.85	572.02	572.45	572.27	/	572.07	571.90	572.07	571.76
27	570.68	571.55	571.36	571.85	572.10	572.62	572.44	572.38*	571.30	571.85	570.45	571.08
28	570.74	571.15	571.53	572.01	572.01	572.60	572.26	572.23	571.50	571.88	571.21	571.57
29	570.64		571.46	571.72	572.09	572.53	572.28	572.22	572.01	572.20	571.36	571.24
30	570.77		571.34	571.95	572.05	572.47	572.45	572.06	572.42	572.09	571.85	571.51
31	570.84		571.58		572.07		572.54	572.09		572.02		571.76
MEAN	570.73	570.88	571.26	571.61	572.03	572.27	572.44	572.25	572.03	571.83	571.57	571.31
MAX.	571.18	571.87	572.07	572.80	572.69	573.33	573.49	573.01	573.40	573.34	573.73	573.58
	1500/29	2000/27	1800/31	1400/12	0700/18	2200/22	0300/28	0300/17	2400/30	0200/01	0200/20	0500/01
MIN.	569.93	569.49	569.23	569.92	571.29	570.78	571.44	571.25	570.57	568.47	568.77	569.55
	0700/22	1400/02	0900/17	1000/14	0200/12	1100/22	1700/28	1200/15	2400/27	1800/18	1400/20	1300/08

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 571.68

ANNUAL SUMMARY OF LEVELS, 1981

Station 4030: Wyandotte, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	573.66	Jul	571.90	Jan
Daily mean elevation:	573.86	2 Jul	571.51	7 Jan
Instant/hourly Elevation:	574.23	0200/1 Oct	571.12	2100/4 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.45	31 Jan
572.98	27 Feb
572.83	4 Mar
573.27	30 Apr
573.48	14 May
573.75	27 Jun
573.86	2 Jul
573.65	17 Aug
573.59	22 Sep
573.55	4 Oct
573.22	3 Nov
573.26	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.51	7 Jan
571.95	3 Feb
572.38	20 Mar
572.29	5 Apr
573.18	5 May
573.17	9 Jun
573.55	26 Jul
573.36	30 Aug
572.82	27 Sep
572.18	18 Oct
572.18	27 Nov
572.36	8 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
573.80							2						573.80	2
573.60						8	22	4					573.60	36
573.40					4	11	7	23	16	9			573.40	106
573.20				5	24	10		4	10	11	1	1	573.20	172
573.00				7	3	1			2	5	13		573.00	203
572.80		6	2	5					2	3	8	5	572.80	234
572.60		2	21	10						2	4	15	572.60	288
572.40	3	8	6	2							3	7	572.40	317
572.20	2	4	2	1								3	572.20	329
572.00	5	5								1	1		572.00	341
571.80	9	3											571.80	353
571.60	8												571.60	361
571.40	4												571.40	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4030: Wyandotte, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	572.13	572.43	572.81	572.41	573.29	573.44	573.85	573.63	573.40	573.28	573.20	573.26
2	571.82	572.08	572.62	572.76	573.25	573.35	573.86	573.57	573.44	573.16	573.18	572.37
3	571.86	571.95	572.74	572.64	573.34	573.28	573.77	573.56	573.51	573.48	573.22	572.73
4	571.57	571.98	572.83	572.64	573.23	573.30	573.70	573.43	573.23	573.55	573.14	572.87
5	571.56	572.04	572.77	572.29	573.18	573.30	573.70	573.50	573.45	573.43	573.09	572.71
6	571.62	572.06	572.73	572.58	573.29	573.22	573.70	573.60	573.56	573.94	572.48	572.78
7	571.51	572.27	572.61	572.72	573.25	573.34	573.66	573.60	573.59	573.91	572.84	572.69
8	571.67	572.00	572.73	572.70	573.31	573.28	573.62	573.49	573.30	573.33	573.01	572.36
9	571.64	572.08	572.70	572.67	573.20	573.17	573.56	573.54	573.41	573.45	573.07	572.44
10	571.62	572.38	572.69	572.76	573.30	573.24	573.70	573.54	573.16	573.54	572.99	572.45
11	571.62	572.30	572.56	572.79	573.30	573.34	573.65	573.46	573.32	573.42	572.90	572.62
12	571.58	572.17	572.47	573.21	573.20	573.41	573.63	573.50	573.36	573.52	573.14	572.82
13	571.73	572.36	572.55	572.97	573.29	573.50	573.61	573.44	573.44	573.43	573.05	572.74
14	571.77	572.43	572.50	572.77	573.48	573.47	573.70	573.48	573.38	573.29	573.02	572.80
15	571.83	572.59	572.41	573.01	573.30	573.46	573.68	573.46	573.49	573.10	573.00	572.70
16	571.81	572.58	572.64	573.03	573.31	573.39	573.64	573.56	573.51	573.14	572.95	572.52
17	571.81	572.60	572.40	572.98	573.47	573.45	573.59	573.65	573.57	573.28	572.82	572.89
18	571.80	572.54	572.63	572.99	573.45	573.56	573.57	573.64	573.53	572.18	572.79	572.52
19	571.88	572.54	572.60	573.08	573.41	573.57	573.56	573.63	573.10	572.63	573.14	572.42
20	571.99	572.57	572.38	573.15	573.31	573.68	573.62	573.60	573.36	572.67	572.59	572.51
21	571.99	572.72	572.70	573.23	573.27	573.59	573.68	573.57	573.59	573.23	572.46	572.58
22	571.81	572.87	572.77	573.23	573.26	573.43	573.68	573.51	573.59	573.23	572.71	572.76
23	572.03	572.91	572.73	572.94	573.30	573.66	573.73	573.38	573.47	572.85	572.96	572.65
24	572.10	572.81	572.70	572.77	573.29	573.74	573.67	573.40	573.39	573.14	573.09	572.39
25	572.18	572.87	572.69	572.95	573.23	573.48	573.60	573.54	573.42	573.17	573.03	572.71
26	572.05	572.91	572.73	573.10	573.25	573.67	573.55	573.45	573.36	573.22	573.13	572.95
27	572.32	572.98	572.68	573.12	573.35	573.75	573.67	573.48	572.82	573.29	572.18	572.63
28	572.44	572.74	572.75	573.26	573.30	573.71	573.61	573.48	572.98	573.33	572.61	572.80
29	572.36		572.66	573.12	573.29	573.66	573.60	573.43	573.30	573.48	572.73	572.66
30	572.44		572.63	573.27	573.29	573.70	573.68	573.36	573.57	573.40	572.98	572.73
31	572.45		572.80		573.32		573.71	573.39		573.30		572.91
MEAN	571.90	572.46	572.65	572.90	573.30	573.47	573.66	573.51	573.39	573.21	572.92	572.68
MAX.	572.58	573.14	573.03	573.56	573.71	574.05	574.11	573.93	574.13	574.23	574.21	573.98
	1600/29	2100/23	1900/31	1400/12	0800/18	2200/22	0500/28	0400/17	2400/30	0200/01	0400/20	0500/01
MIN.	571.12	571.70	571.78	572.02	572.97	572.88	573.21	573.05	572.46	571.35	571.62	571.90
	2100/04	1900/08	0900/17	1600/01	0300/12	1300/22	1800/28	1300/15	1900/27	1800/18	1500/20	1200/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 573.00

ANNUAL SUMMARY OF LEVELS, 1981

Station 4036: Fort Wayne, Detroit, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	574.06	Jul	572.45	Jan
Daily mean elevation:	574.20	2 Jul	572.05	4 Jan
Instant/hourly Elevation:	574.63	0100/1 Oct	571.82	2300/4 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.88	31 Jan
573.45	27 Feb
573.34	1 Mar
573.70	30 Apr
573.88	17 May
574.11	24 Jun
574.20	2 Jul
574.06	19 Aug
574.04	7 Sep
574.05	4 Oct
573.67	1 Nov
573.60	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.05	4 Jan
572.61	2 Feb
572.87	20 Mar
572.77	5 Apr
573.60	9 May
573.62	9 Jun
573.97	26 Jul
573.81	30 Aug
573.33	27 Sep
572.79	18 Oct
572.72	27 Nov
572.87	8 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
574.00						8	26	6	4	2			574.00	46
573.80					4	12	5	25	16	11			573.80	119
573.60				4	26	10			8	10	3		573.60	180
573.40		3		10	1				1	4	13	1	573.40	213
573.20		7	4	6					1	1	7	8	573.20	247
573.00		10	22	8						2	5	13	573.00	307
572.80	4	3	5	1							1	9	572.80	330
572.60	2	2		1						1	1		572.60	337
572.40	10												572.40	347
572.20	11												572.20	358
572.00	4												572.00	362

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4036: Fort Wayne, Detroit, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	572.43	572.87	573.34	572.85	573.72	573.81	574.19	574.04	573.83	573.82	573.67	573.60
2	572.15	572.61	573.16	573.16	573.68	573.74	574.20	573.99	573.87	573.76	573.65	572.88
3	572.15	572.71	573.24	573.06	573.73	573.70	574.13	573.98	573.95	574.02	573.66	573.16
4	572.05	573.04	573.28	573.05	573.64	573.71	574.08	573.88	573.74	574.05	573.60	573.30
5	572.06	573.14	573.22	572.77	573.61	573.72	574.09	573.94	573.93	573.95	573.54	573.16
6	572.26	573.07	573.19	573.03	573.71	573.64	574.08	574.00	574.03	573.49	573.05	573.23
7	572.23	573.10	573.11	573.12	573.64	573.74	574.06	574.02	574.04	573.49	573.34	573.15
8	572.30	572.91	573.18	573.11	573.69	573.71	574.03	573.94	573.80	573.81	573.44	572.87
9	572.34	573.00	573.15	573.11	573.60	573.62	573.99	573.98	573.88	573.89	573.52	572.92
10	572.31	573.21	573.14	573.16	573.70	573.67	574.08	573.97	573.68	573.95	573.43	572.95
11	572.24	573.07	573.03	573.22	573.73	573.75	574.05	573.90	573.80	573.86	573.38	573.08
12	572.27	573.15	572.93	573.57	573.66	573.81	574.04	573.92	573.84	573.94	573.54	573.24
13	572.40	573.31*	573.01	573.38	573.73	573.88	574.03	573.87	573.88	573.85	573.47	573.18
14	572.53	/	572.97	573.22	573.88	573.86	574.06	573.90	573.85	573.73	573.45	573.22
15	572.52	/	572.88	573.44	573.75	573.86	574.06	573.88	573.93	573.58	573.43	573.14
16	572.43	/	573.10	573.45	573.74	573.81	574.04	573.99	573.94	573.62	573.40	572.98
17	572.42	573.04*	572.89	573.43	573.88	573.86	574.00	574.04	574.02	573.70	573.27	573.29
18	572.38	573.01	573.08	573.44	573.87	573.95	573.98	574.05	573.97	572.79	573.25	572.99
19	572.40	573.02	573.05	573.50	573.81	573.96	573.97	574.06	573.61	573.15	573.56	572.90
20	572.47	573.07	572.87	573.58	573.72	574.04	574.04	574.02	573.80	573.15	573.11	572.97
21	572.47	573.23	573.12	573.62	573.68	573.98	574.07	573.99	574.00	573.65	573.00	573.02
22	572.36	573.35	573.18	573.63	573.69	573.84	574.08	573.94	574.03	573.67	573.20	573.19
23	572.53	573.41	573.14	573.40	573.70	574.04	574.10	573.84	573.93	573.37	573.40	573.12
24	572.60	573.35	573.12	573.24	573.69	574.11	574.06	573.85	573.87	573.60	573.52	572.94
25	572.69	573.40	573.12	573.40	573.64	573.92	574.01	573.93	573.86	573.63	573.44	573.19
26	572.60	573.42	573.14	573.53	573.67	574.05	573.97	573.86	573.80	573.69	573.50	573.37
27	572.78	573.45	573.11	573.56	573.74	574.10	574.07	573.89	573.33	573.76	572.72	573.15
28	572.87	573.26	573.15	573.67	573.72	574.07	574.04	573.89	573.49	573.83	573.06	573.24
29	572.81		573.08	573.57	573.70	574.03	574.05	573.85	573.75	573.93	573.17	573.15
30	572.87		573.06	573.70	573.71	574.07	574.09	573.81	573.99	573.84	573.37	573.16
31	572.88		573.20		573.73		574.10	573.82		573.76		573.33
MEAN	572.45	573.13	573.10	573.33	573.71	573.87	574.06	573.94	573.85	573.69	573.37	573.13
MAX.	572.98	573.55	573.44	573.88	574.07	574.33	574.42	574.21	574.44	574.63	574.45	574.16
	1600/29	2200/23	0700/01	1900/30	0800/18	2300/22	0500/28	0400/17	2100/21	0100/01	0300/20	0400/01
MIN.	571.82	572.45	572.36	572.56	573.29	573.48	573.72	573.58	572.96	572.15	572.29	572.53
	2300/04	1500/02	0900/17	1700/01	0200/30	1400/22	1600/26	0100/24	1700/27	1500/18	1600/20	1400/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 573.47

ANNUAL SUMMARY OF LEVELS, 1981

Station 4049: Windmill Point, Detroit, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	574.88	Jul	573.04	Jan
Daily mean elevation:	574.96	3 Oct	572.61	4 Jan
Instant/hourly Elevation:	575.11	0600/28 Jul	572.57	2200/4 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
573.64	31 Jan
574.45	26 Feb
574.30	1 Mar
574.55	30 Apr
574.73	14 May
574.88	30 Jun
574.96	2 Jul
574.87	16 Aug
574.93	17 Sep
574.96	3 Oct
574.52	1 Nov
574.23	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.61	4 Jan
573.52	2 Feb
573.79	15 Mar
573.73	5 Apr
574.42	9 May
574.47	9 Jun
574.76	19 Jul
574.60	29 Aug
574.26	27 Sep
573.82	18 Oct
573.83	27 Nov
573.80	20 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
574.80						6	27	8	5	4			574.80	50
574.60					9	12	3	22	19	11			574.60	126
574.40		2		6	22	12		1	5	12	4		574.40	190
574.20		6	2	12					1	1	12	1	574.20	225
574.00		1	11	2						1	10	16	574.00	266
573.80		10	17	7						2	2	13	573.80	317
573.60	2	7	1	3								1	573.60	331
573.40	3	2											573.40	336
573.20	2												573.20	338
573.00	7												573.00	345
572.80	11												572.80	356
572.60	6												572.60	362

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4049: Windmill Point, Detroit, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	573.03	573.62	574.30	573.73	574.60	574.57	574.94	574.85	574.61	574.74	574.52	574.23
2	572.78	573.52	574.21	573.97	574.53	574.53	574.96	574.80	574.71	574.82	574.50	573.81
3	572.69	573.55	574.20	573.82	574.51	574.50	574.90	574.79	574.77	574.96	574.45	574.00
4	572.61	573.68	574.17	573.73	574.46	574.55	574.89	574.71	574.65	574.94	574.42	574.10
5	572.65	573.77	574.17	573.73	574.48	574.53	574.91	574.77	574.81	574.88	574.36	574.01
6	572.71	573.75	574.11	573.92	574.67	574.50	574.89	574.80	574.87	574.55	574.11	574.06
7	572.77	573.76	574.07	573.90	574.45	574.55	574.86	574.81	574.88	574.54	574.28	574.01
8	572.84	573.70	574.08	573.86	574.47	574.49	574.84	574.80	574.75	574.70	574.27	573.86*
9	572.81	573.73	574.03	573.99	574.42	574.47	574.85	574.84	574.77	574.72	574.39	573.96*
10	572.83	573.84	574.02	573.98	574.55	574.48	574.89	574.78	574.58	574.76	574.24	573.96
11	572.88	573.88	573.96	574.06	574.63	574.53	574.87	574.76	574.68	574.70	574.26	574.00
12	572.94	573.94	573.82	574.27	574.58	574.57	574.84	574.74	574.69	574.72	574.31	574.07
13	572.97	573.94	573.95	574.21	574.62	574.63	574.86	574.71	574.68	574.62	574.28	574.01
14	572.99	573.90	573.90	574.15	574.73	574.62	574.92	574.69	574.73	574.51	574.26	574.04
15	573.01	573.87	573.79	574.31	574.66	574.61	574.88	574.72	574.73	574.44	574.22	573.99
16	572.97	573.84	574.05	574.29	574.64	574.61	574.85	574.87	574.78	574.47	574.20	573.87
17	572.98	573.89	573.90	574.27	574.71	574.66	574.82	574.86	574.93	574.44	574.14	574.08
18	572.97	573.90	573.97	574.36	574.69	574.67	574.80	574.82	574.80	573.82	574.10	573.90
19	572.98	573.95	573.96	574.36	574.64	574.75	574.76	574.85	574.55	574.08	574.34	573.84
20	573.01	574.09	573.85	574.52	574.56	574.80	574.89	574.82	574.63	573.99	574.03	573.80
21	573.03	574.21	573.96	574.42	574.52	574.77	574.95	574.80	574.79	574.46	574.01	573.82
22	573.01	574.30	574.01	574.42	574.52	574.75	574.91*	574.76	574.86	574.48	574.08	574.03
23	573.11	574.34	573.99	574.23	574.52	574.87	/	574.67	574.79	574.35	574.20	574.05
24	573.20	574.38	573.98	574.24	574.49	574.88	574.85*	574.70	574.72	574.44	574.36*	573.94
25	573.29	574.44	573.96	574.32	574.47	574.78	574.80	574.71	574.70	574.48	/	574.07
26	573.32	574.45	573.95	574.38	574.47	574.88	574.81	574.67	574.59	574.54	/	574.17
27	573.47	574.40	573.98	574.40	574.59	574.87	574.88	574.68	574.26	574.63	573.83*	574.04
28	573.57	574.30	573.95	574.46	574.57	574.85	574.90	574.67	574.44	574.73	573.96	574.07
29	573.58		573.85	574.47	574.51	574.80	574.93	574.60	574.59	574.76	574.06	574.05
30	573.63		573.89	574.55	574.54	574.88	574.91	574.61	574.76	574.68	574.15	573.99
31	573.64		574.01		574.56		574.90	574.63		574.58		574.06
MEAN	573.04	573.96	574.00	574.18	574.56	574.66	574.88	574.75	574.70	574.57	574.23	574.00
MAX.	573.65	574.50	574.36	574.73	574.86	575.07	575.11	574.96	575.07	575.07	574.76	574.62
	2400/31	0800/26	0100/16	0800/20	1200/30	0200/22	0600/28	1900/17	0400/18	0500/01	0200/20	0400/01
MIN.	572.57	573.47	573.47	573.18	574.12	574.19	574.58	574.45	573.85	573.27	573.58	573.68
	2200/04	0500/03	1500/15	1200/04	0300/30	0300/10	0200/19	1900/31	1700/27	1500/18	1600/20	2100/20

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 574.29

ANNUAL SUMMARY OF LEVELS, 1981

Station 4052: St. Clair Shores, Michigan on Lake St. Clair

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	575.04	Jul	573.22	Jan
Daily mean elevation:	575.19	4 Oct	572.80	5 Jan
Instant/hourly Elevation:	575.37	0600/28 Jul	572.77	0100/5 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
573.88	31 Jan
574.71	27 Feb
574.52	1 Mar
574.71	30 Apr
574.87	17 May
575.05	24 Jun
575.10	2 Jul
575.03	1 Aug
575.07	7 Sep
575.19	4 Oct
574.72	1 Nov
574.50	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.80	5 Jan
573.83	3 Feb
574.04	20 Mar
573.98	5 Apr
574.59	7 May
574.65	9 Jun
574.96	19 Jul
574.82	29 Aug
574.54	27 Sep
574.24	18 Oct
574.05	27 Nov
574.03	19 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
575.00						6	25	4	3	4			575.00	42
574.80					6	12	6	27	23	11			574.80	127
574.60		4		4	24	12			3	11	4		574.60	189
574.40		4	3	12	1				1	2	16	1	574.40	229
574.20		1	7	5						3	8	19	574.20	272
574.00		10	21	7							2	11	574.00	323
573.80	3	9		2									573.80	337
573.60	2												573.60	339
573.40	2												573.40	341
573.20	5												573.20	346
573.00	10												573.00	356
572.80	7												572.80	363
572.60	2												572.60	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4052: St. Clair Shores, Michigan on Lake St. Clair

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	573.26	573.86	574.52	573.98	574.75	574.72	575.07	575.03	574.82	575.01	574.72	574.50
2	573.02	573.84	574.43	574.17	574.71	574.71	575.10	574.98	574.86	574.99	574.70	574.14
3	572.89	573.83	574.43	574.13	574.70	574.68	575.08	574.97	574.91	575.18	574.67	574.24
4	572.80	573.87	574.39	574.10	574.65	574.71	575.05	574.90	574.86	575.19	574.64	574.28
5	572.80	573.95	574.34	573.98	574.63	574.71	575.06	574.93	574.97	575.11	574.59	574.23
6	572.84	573.94	574.31	574.11	574.65	574.66	575.04	574.95	575.04	574.82	574.31	574.29
7	572.91	573.96	574.26	574.16	574.59	574.72	575.03	575.02	575.07	574.74	574.49	574.26
8	572.95	573.93	574.27	574.15	574.65	574.69	574.99	575.01	574.93	574.88	574.52	574.05
9	572.93	573.96	574.23	574.17	574.61	574.65	575.00	575.01	574.97	574.91	574.53	574.05
10	572.94	574.05	574.22	574.21	574.68	574.68	575.04	574.99	574.86	574.92	574.51	574.11
11	572.99	574.16	574.16	574.23	574.73	574.72	575.03	574.95	574.90	574.86	574.48	574.18
12	573.06	574.16	574.08	574.38	574.76	574.76	575.03	574.93	574.87	574.89	574.54	574.28
13	573.09	574.12	574.13	574.39	574.81	574.83	575.02	574.91	574.88	574.84	574.49	574.23
14	573.12	574.09	574.11	574.34	574.85	574.82	575.04	574.90	574.91	574.74	574.47	574.23
15	573.16	574.08	574.08	574.51	574.81	574.84	575.03	574.91	574.90	574.66	574.44	574.18
16	573.14	574.05	574.14	574.51	574.82	574.81	575.01	574.98	574.92	574.66	574.41	574.11
17	573.16	574.09	574.04	574.49	574.87	574.85	575.01	575.00	575.02	574.69	574.36	574.24
18	573.16	574.14	574.15	574.52	574.83	574.88	574.98	574.99	574.93	574.24	574.31	574.10
19	573.17	574.20	574.13	574.55	574.79	574.91	574.96	575.00	574.80	574.33	574.50	574.03
20	573.19	574.34	574.04	574.59	574.75	574.95	575.05	574.98	574.81	574.36	574.29	574.10
21	573.23	574.46	574.15	574.58	574.73	574.92	575.04	574.95	574.92	574.60	574.22	574.20
22	573.23	574.50	574.18	574.61	574.70	574.94	575.07	574.92	574.97	574.66	574.32	574.24
23	573.30	574.57	574.16	574.49	574.69	575.03	575.06	574.86	574.93	574.58	574.43	574.28
24	573.40	574.65	574.16	574.43	574.67	575.05	575.03	574.87	574.91	574.66	574.48	574.28
25	573.49	574.67	574.15	574.49	574.65	574.96	574.99	574.85	574.89	574.70	574.44	574.35
26	573.56	574.70	574.16	574.56	574.66	575.02	574.99	574.85	574.82	574.74	574.44	574.39
27	573.67	574.71	574.14	574.58	574.72	575.04	575.02	574.85	574.54	574.78	574.05	574.34
28	573.79	574.57	574.16	574.62	574.71	575.04	575.07	574.85	574.63	574.91	574.17	574.29
29	573.82		574.12	574.65	574.69	574.99	575.07	574.82	574.77	574.96	574.29	574.30
30	573.86		574.11	574.71	574.71	575.03	575.08	574.84	574.93	574.88	574.37	574.29
31	573.88		574.20		574.72		575.07	574.84		574.80		574.30
MEAN	573.22	574.19	574.20	574.38	574.72	574.84	575.04	574.93	574.88	574.78	574.44	574.23
MAX.	573.89	574.73	574.56	574.81	574.93	575.12	575.37	575.18	575.22	575.26	574.77	574.86
	1500/31	1900/27	1200/01	2400/22	1200/17	0100/22	0600/28	2300/07	2400/30	1600/03	2100/02	0400/01
MIN.	572.77	573.81	573.74	573.74	574.46	574.54	574.78	574.71	574.28	573.94	573.86	573.92
	0100/05	1100/03	0800/17	1600/01	0200/30	2200/09	1500/09	2100/29	2200/27	1800/18	1600/20	1000/09

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 574.49

ANNUAL SUMMARY OF LEVELS, 1981

Station 4070: Algonac, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	575.54	Jul	574.29	Jan
Daily mean elevation:	575.68	3 Oct	573.86	9 Jan
Instant/hourly Elevation:	576.00	1400/1 Oct	573.83	1300/9 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
575.06	30 Jan
575.17	25 Feb
575.07	2 Mar
575.19	30 Apr
575.30	16 May
575.60	28 Jun
575.59	30 Jul
575.58	15 Aug
575.62	8 Sep
575.68	3 Oct
575.20	1 Nov
574.99	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
573.86	9 Jan
574.72	1 Feb
574.66	28 Mar
574.72	2 Apr
574.94	6 May
575.20	1 Jun
575.49	25 Jul
575.32	27 Aug
575.27	29 Sep
575.03	21 Oct
574.85	19 Nov
574.66	31 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
575.60									4	4			575.60	8
575.40						16	31	24	12	3			575.40	94
575.20					10	13		7	12	16			575.20	152
575.00	2	7	2	15	20	1				8	12		575.00	219
574.80	3	13	8	7	1						18	15	574.80	284
574.60	2	8	21	8								16	574.60	339
574.40	2												574.40	341
574.20	3												574.20	344
574.00	12												574.00	356
573.80	7												573.80	363
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4070: Algonac, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	574.24	574.72	575.06	574.82	575.16	575.20	575.52	575.54	575.40	575.63	575.20	574.96
2	574.21	574.85	575.07	574.72	575.16	575.22	575.54	575.53	575.41	575.66	575.17	574.99
3	574.12	574.89	574.98	574.80	575.16	575.22	575.55	575.49	575.41	575.68	575.16	574.80
4	574.08	574.86	574.91	574.91	575.10	575.25	575.55	575.53	575.46*	575.64	575.13	574.76
5	574.00	574.77	574.84	574.85	575.06	575.27	575.54	575.49	/	575.54	575.12	574.83
6	573.93	574.79	574.86	574.73	574.94	575.26	575.54	575.48	/	575.57	575.16	574.86
7	574.17	574.75	574.85	574.77	575.04	575.25	575.54	575.49	575.62*	575.48	575.10	574.84
8	573.89	574.83	574.81	574.80	575.06	575.28	575.54	575.58	575.62	575.39	575.11	574.79
9	573.86	574.90	574.79	574.80	575.08	575.31	575.55	575.56	575.61	575.35	575.03	574.78
10	573.96	574.86	574.78	574.78	575.10	575.31	575.56	575.57	575.61	575.30	575.11	574.82
11	573.97	575.03	574.78	574.76	575.19	575.30	575.55	575.54	575.47	575.29	575.04	574.83
12	573.97	574.93	574.84	574.81	575.28	575.29	575.55	575.51	575.43	575.27	574.99	574.78
13	574.01	574.80	574.75	574.86	575.29	575.33	575.54	575.50	575.42	575.25	574.95	574.78
14	574.08	574.88	574.79	575.04	575.25	575.36	575.53	575.48	575.41	575.23	574.94	574.74
15	574.08	574.97	574.86	575.05	575.26	575.43	575.54	575.58	575.40	575.19	574.92	574.73
16	574.11	574.87	574.70	575.05	575.30	575.44	575.54	575.50	575.41	575.16	574.92	574.76
17	574.13	574.80	574.78	575.07	575.26	575.43	575.53	575.49	575.37	575.17	574.92	574.66
18	574.13	574.76	574.74	575.03	575.22	575.47	575.50	575.49	575.37	575.36	574.92	574.72
19	574.13	574.77	574.70	575.04	575.22	575.44	575.52	575.47	575.48	575.11	574.85	574.71
20	574.15	574.95	574.73	574.94	575.23	575.43	575.55	575.47	575.39	575.19	575.10	574.75
21	574.19	575.00	574.69	575.01	575.21	575.44	575.54	575.45	575.35	575.03	575.00	574.83
22	574.32	574.97	574.66	574.98	575.18	575.56	575.54	575.43	575.40	575.13	575.00	574.81
23	574.57	575.03	574.66	575.09	575.16	575.56	575.53	575.40	575.43	575.27	574.97	574.85
24	574.63	575.12	574.66	575.06	575.15	575.59	575.52	575.37	575.42	575.27	574.89	574.91
25	574.57	575.17	574.66	575.04	575.17	575.57	575.49	575.34	575.37	575.26	574.93	574.86
26	574.76	575.15	574.69	575.04	575.16	575.58	575.51	575.35	575.34	575.19	574.93	574.82
27	574.82	575.10	574.66	575.05	575.14	575.59	575.50	575.32	575.43	575.24	575.00	574.82
28	574.99	575.11	574.66	575.09	575.16	575.60	575.59	575.34	575.33	575.35	574.92	574.78
29	575.04		574.70	575.16	575.19	575.58	575.58	575.37	575.27	575.34	574.90	574.82
30	575.06		574.76	575.19	575.18	575.53	575.59	575.46	575.28	575.28	574.88	574.79
31	574.95		574.72		575.17		575.55	575.43		575.21		574.66
MEAN	574.29	574.92	574.78	574.94	575.17	575.40	575.54	575.47	575.43	575.32	575.01	574.80
MAX.	575.09	575.26	575.15	575.38	575.37	575.67	575.85	575.83	575.87	576.00	575.41	575.21
	2100/28	0800/28	2300/01	2300/17	0400/30	0500/22	1100/28	0700/15	0300/10	1400/01	0900/20	1900/01
MIN.	573.83	574.61	574.55	574.59	574.85	575.13	575.25	575.26	575.17	574.90	574.62	574.55
	1300/09	1400/01	0900/27	0900/09	0700/06	2200/06	0100/18	0800/29	0800/30	0100/21	0300/20	1400/17

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 575.09

ANNUAL SUMMARY OF LEVELS, 1981

Station 4080: St. Clair S.P., St. Clair, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	576.98	Jul	Monthly mean elevation:	576.21	Dec
Daily mean elevation:	578.11	2 Jan	Daily mean elevation:	575.74	21 Jan
Instant/hourly Elevation:	578.56	1100/2 Jan	Instant/hourly Elevation:	575.50	2100/21 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.11	2 Jan
576.59	25 Feb
576.52	2 Mar
576.66	30 Apr
576.84	12 May
577.01	25 Jun
577.10	29 Jul
577.06	16 Aug
577.14	8 Sep
577.24	2 Oct
576.81	6 Nov
576.52	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
575.74	21 Jan
575.97	1 Feb
575.99	28 Mar
576.06	3 Apr
576.46	4 May
576.61	3 Jun
576.87	25 Jul
576.74	29 Aug
576.67	30 Sep
576.46	31 Oct
576.08	26 Nov
575.85	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
													578.00	2
578.00	2												577.80	3
577.80	1												577.60	4
577.60	1												577.40	4
577.40										1			577.20	6
577.20	1					2	7	2	8	2			577.00	28
577.00	1				2	12	24	23	17	4	1		576.80	112
576.80	1			2	19	16		6	5	18	1		576.60	179
576.60				13	10					6	14	3	576.40	239
576.40	1	11	2	9							13	11	576.20	305
576.20	4	11	18	6							1	16	576.00	348
576.00	5	5	10	1								1	575.80	362
575.80	11	1	1										575.60	365
575.60	3													

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4080: St. Clair S.P., St. Clair, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	577.79	575.97	576.42	576.11	576.60	576.63	576.96	576.93	576.76	576.78	576.58	576.09
2	578.11	576.24	576.52	576.16	576.62	576.62	576.92	576.90	576.91	577.24	576.58	576.24
3	578.02	576.34	576.40	576.06	576.51	576.61	576.95	576.92	576.90	577.14	576.51	576.26
4	577.96	576.57	576.28	576.11	576.46	576.68	576.95	576.96	577.08	576.98	576.52	576.25
5	577.35	576.50	576.32	576.31	576.55	576.67	576.96	576.98	577.07	576.91	576.46	576.37
6	576.84	576.52	576.35	576.25	576.59	576.70	576.95	576.91	577.06	576.95	576.81	576.29
7	577.16	576.30	576.35	576.14	576.52	576.71	576.95	576.90	577.01	577.17	576.61	576.24
8	575.94	576.20	576.28	576.20	576.53	576.63	576.95	576.97	577.14	576.91	576.55	576.47
9	575.76	576.31	576.24	576.30	576.50	576.75	577.00	576.98	577.09	576.76	576.60	576.46
10	575.93	576.24	576.22	576.22	576.71	576.71	576.99	576.96	577.02	576.68	576.44	576.52
11	576.02	576.41	576.26	576.23	576.81	576.73	576.98	576.97	576.88	576.75	576.56	576.37
12	575.86	576.52	576.22	576.27	576.84	576.70	576.97	576.95	576.91	576.70	576.36	576.20
13	575.84	576.51	576.34	576.24	576.76	576.73	577.00	576.96	576.89	576.60	576.35	576.17
14	575.91	576.50	576.26	576.55	576.70	576.72	577.06	576.91	576.93	576.54	576.33	576.14
15	575.87	576.22	576.32	576.51	576.77	576.79	576.98	577.04	576.93	576.66	576.32	576.18
16	576.10	576.12	576.26	576.44	576.77	576.84	576.98	577.06	576.92	576.71	576.32	576.21
17	576.00	576.10	576.39	576.48	576.73	576.87	576.95	576.98	576.92	576.47	576.36	576.15
18	575.94	576.08	576.25	576.55	576.70	576.79	576.95	576.96	576.86	576.61	576.42	576.19
19	575.91	576.18	576.21	576.48	576.68	576.89	576.92	576.93	576.97	576.74	576.34	576.26
20	575.87	576.43	576.26	576.54	576.68	576.84	576.98	576.93	576.90	576.65	576.57	576.15
21	575.74	576.38	576.16	576.45	576.66	576.87	577.08	576.92	576.85	576.62	576.55	576.03
22	575.78	576.29	576.10	576.33	576.65	577.01	577.01	576.86	576.95	576.56	576.44	576.14
23	576.17	576.31	576.10	576.37	576.59	576.96	576.95	576.86	576.92	576.71	576.35	576.17
24	576.11	576.43	576.12	576.54	576.57	576.88	576.93	576.88	576.86	576.68	576.30	576.22
25	575.91	576.59	576.10	576.55	576.63	577.01	576.87	576.80	576.76	576.61	576.30	576.21
26	576.06	576.52	576.05	576.48	576.66	576.98	577.01	576.79	576.70	576.61	576.08	576.12
27	576.25	576.36	576.10	576.47	576.68	576.94	576.99	576.77	576.85	576.72	576.26	576.01
28	576.34	576.36	575.99	576.53	576.66	576.89	577.09	576.75	577.01	576.79	576.45	576.14
29	576.39		576.06	576.64	576.64	576.90	577.10	576.74	576.80	576.63	576.37	576.18
30	576.42		576.12	576.66	576.70	576.98	577.03	576.84	576.67	576.57	576.27	576.09
31	576.26		576.13		576.70		576.94	576.80		576.46		575.85
MEAN	576.37	576.34	576.23	576.37	576.65	576.80	576.98	576.91	576.92	576.74	576.43	576.21
MAX.	578.56	576.79	576.96	576.91	576.98	577.20	577.27	577.28	577.32	577.41	577.09	576.67
	1100/02	1300/04	1000/17	1000/14	2400/11	1700/25	1000/21	2000/04	0200/09	0800/02	2100/08	1100/08
MIN.	575.50	575.77	575.87	575.72	576.30	576.24	576.53	576.57	576.50	575.90	575.88	575.68
	2100/21	1100/01	2400/28	2200/03	0600/04	0100/12	1900/02	0500/29	2200/30	0100/18	1800/26	0900/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 576.58

ANNUAL SUMMARY OF LEVELS, 1981
Station 4084: Marysville, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	577.74	Jul	576.93	Dec
Daily mean elevation:	578.46	7 Jan	576.51	31 Dec
Instant/hourly Elevation:	579.22	0200/7 Jan	576.26	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.46	7 Jan
577.26	25 Feb
577.29	2 Mar
577.39	30 Apr
577.62	12 May
577.77	25 Jun
577.87	29 Jul
577.88	16 Aug
577.91	8 Sep
578.05	2 Oct
577.68	6 Nov
577.39	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
576.54	25 Jan
576.60	1 Feb
576.71	28 Mar
576.76	3 Apr
577.17	4 May
577.34	8 Jun
577.60	25 Jul
577.44	29 Aug
577.38	26 Sep
577.17	31 Oct
576.73	26 Nov
576.51	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
578.40	2												578.40	2
578.20	2												578.20	4
578.00	2									2			578.00	8
577.80							4	1	6	1			577.80	20
577.60	1				2	9	26	23	18	3	1		577.60	103
577.40					17	16	1	7	5	13	1		577.40	163
577.20	2	1	2	13	11	5			1	10	11	3	577.20	222
577.00	6	12	13	10	1					2	15	5	577.00	286
576.80	9	10	12	4							1	17	576.80	339
576.60	6	4	3	3							1	5	576.60	361
576.40	1	1										1	576.40	364

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4084: Marysville, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.01	576.60	577.12	576.78	577.35	577.38	577.73	577.68	577.52	577.40	577.31	576.75
2	578.33	576.96	577.29	576.94	577.37	577.36	577.69	577.66	577.72	578.05	577.33	576.87
3	578.27	577.02	577.15	576.76	577.23	577.35	577.69	577.68	577.70	577.86	577.23	576.99
4	578.41	577.20	577.00	576.80	577.17	577.43	577.69	577.71	577.84	577.65	577.27	577.02
5	578.04	577.06	577.10	577.08	577.33	577.40	577.71	577.77	577.86	577.60	577.18	577.13
6	577.77	577.07	577.13	577.04	577.44	577.47	577.69	577.70	577.84	577.68	577.68	577.01
7	578.46	576.88	577.13	576.84	577.32	577.47	577.69	577.65	577.74	578.03	577.44	576.98
8	577.21	576.81	577.04	576.92	577.29	577.34	577.70	577.72	577.91	577.70	577.34	577.31
9	577.00	576.97	576.98	577.05	577.29	577.51	577.77	577.73	577.83	577.51	577.40	577.32
10	577.21	576.84	576.97	576.94	577.53	577.50	577.76	577.69	577.77	577.41	577.15	577.39
11	577.19	577.02	577.03	577.03	577.61	577.50	577.74	577.72	577.66	577.50	577.35	577.18
12	576.95	577.10	576.92	577.05	577.62	577.48	577.71	577.71	577.68	577.44	577.10	576.94
13	576.79	577.03	577.15	577.01	577.51	577.45	577.78	577.71	577.66	577.31	577.08	576.92
14	576.81	577.05	577.02	577.31	577.47	577.41	577.85	577.65	577.73	577.24	577.06	576.90
15	576.77	576.80	577.09	577.27	577.54	577.51	577.75	577.78	577.72	577.41	577.04	576.94
16	577.05	576.74	577.09	577.19	577.52	577.60	577.74	577.88	577.73	577.52	577.05	576.97
17	577.01	576.76	577.25	577.22	577.46	577.64	577.71	577.77	577.76	577.17	577.14	576.93
18	576.99	576.77	577.02*	577.36	577.43	577.53	577.70	577.73	577.66	577.26	577.19	576.95
19	576.95	576.87	/	577.23	577.44	577.69	577.67	577.72	577.75	577.56	577.12	577.05
20	576.91	577.13	577.03*	577.32	577.42	577.57	577.75	577.70	577.68	577.39	577.37	576.87
21	576.77	577.07	576.91	577.17	577.41	577.59	577.86	577.67	577.62	577.43	577.37	576.65
22	576.93	576.92	576.84	577.01	577.41	577.76	577.76	577.62	577.76	577.34	577.22	576.85
23	576.76	576.91	576.86	577.02	577.35	577.72	577.70	577.61	577.73	577.48	577.10	576.86
24	576.72	577.04	576.89	577.29	577.34	577.60	577.67	577.69	577.61	577.41	577.05	576.87
25	576.54	577.26	576.86	577.33	577.38	577.77	577.60	577.58	577.49	577.32	577.04	576.89
26	576.73	577.20	576.78	577.25	577.44	577.75	577.76	577.55	577.38	577.37	576.73	576.78
27	576.98	576.97	576.88	577.24	577.48	577.70	577.78	577.52	577.58	577.49	576.96	576.62
28	577.01	576.99	576.71	577.27	577.44	577.59	577.86	577.45	577.86	577.51	577.28	576.82
29	577.06		576.78	577.35	577.39	577.61	577.87	577.44	577.58	577.32	577.15	576.87
30	577.08		576.83	577.39	577.48	577.76	577.77	577.57	577.42	577.24	577.02	576.77
31	576.90		576.87		577.48		577.69	577.54		577.17		576.51
MEAN	577.21	576.97	576.99	577.12	577.42	577.55	577.74	577.66	577.69	577.48	577.19	576.93
MAX.	579.22	577.45	577.98	577.88	577.84	577.99	578.08	578.01	578.17	578.33	578.09	577.55
	0200/07	1200/04	1000/17	1000/14	0100/12	1700/25	2200/28	0800/16	0100/09	0200/02	1000/06	2400/09
MIN.	576.33	576.37	576.54	576.35	577.06	577.17	577.45	577.25	577.21	576.78	576.51	576.26
	1300/25	1000/01	1600/28	2200/03	0700/04	1000/08	0900/25	0500/29	0100/10	0200/18	1700/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 577.33

ANNUAL SUMMARY OF LEVELS, 1981

Station 4087: Dry Dock, Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	578.20	Jul	577.39	Feb
Daily mean elevation:	578.85	7 Jan	576.82	31 Dec
Instant/hourly Elevation:	579.41	0200/7 Jan	576.43	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.85	7 Jan
577.74	25 Feb
577.78	17 Mar
577.88	30 Apr
578.14	11 May
578.23	25 Jun
578.35	29 Jul
578.36	16 Aug
578.42	8 Sep
578.54	7 Oct
578.21	6 Nov
577.97	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.17	26 Jan
576.96	1 Feb
577.17	28 Mar
577.18	3 Apr
577.60	4 May
577.77	8 Jun
578.04	25 Jul
577.86	29 Aug
577.75	26 Sep
577.56	31 Oct
577.08	26 Nov
576.82	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
578.80	1												578.80	1
578.60	1												578.60	2
578.40	5								1	2			578.40	10
578.20	3					4	12	4	11	2	1		578.20	47
578.00	7				5	10	19	22	13	5			578.00	128
577.80	4			7	20	14		5	4	12	6	3	577.80	203
577.60	3	4	6	8	5	2			1	8	9	2	577.60	251
577.40	4	9	14	10	1					2	12	10	577.40	313
577.20	2	11	10	3							1	11	577.20	351
577.00	1	3	1	2							1	4	577.00	363
576.80		1										1	576.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4087: Dry Dock, Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.21	576.96	577.58	577.18	577.84	577.84	578.20	578.11	577.93	577.77	577.75	577.14
2	578.53	577.40	577.78	577.44	577.84	577.82	578.13	578.10	578.21	578.52	577.78	577.28
3	578.48	577.46	577.62	577.18	577.68	577.80	578.13	578.12	578.18	578.28	577.68	577.45
4	578.63	577.62	577.45	577.21	577.60	577.91	578.15	578.15	578.30	578.02	577.71	577.53
5	578.24	577.40	577.58	577.57	577.81	577.85	578.17	578.23	578.35	578.01	577.60	577.64
6	577.99	577.42	577.64	577.54	577.99	577.95	578.16	578.14	578.31	578.12	578.21	577.47
7	578.85	577.24	577.64	577.29	577.77	577.95	578.15	578.07	578.21	578.54	577.93	577.45
8	578.52	577.23	577.53	577.36	577.74	577.77	578.14	578.16	578.42	578.17	577.81	577.83
9	578.38	577.41	577.46	577.55	577.73	577.98	578.24	578.17	578.30	577.95	577.91	577.88
10	578.55	577.24	577.46	577.41	578.03	577.96	578.21	578.12	578.20	577.84	577.56	577.97
11	578.44	577.45	577.54	577.51	578.14	577.98	578.18	578.17	578.08	577.94	577.84	577.70
12	578.15	577.51	577.39	577.53	578.12	577.92	578.15	578.15	578.17	577.87	577.55	577.41
13	578.02	577.40	577.68	577.48	577.97	577.91	578.24	578.16	578.15	577.72	577.55	577.36
14	578.12	577.45	577.50	577.83	577.95	577.85	578.34	578.09	578.19	577.67	577.53	577.34
15	578.04	577.20	577.60	577.75	578.03	577.95	578.22	578.23	578.21	577.86	577.51	577.41
16	578.20	577.14	577.60	577.63	578.01	578.04	578.19	578.36	578.20	578.00	577.53	577.45
17	578.06	577.18	577.78	577.65	577.94	578.08*	578.17	578.22	578.24	577.58	577.62	577.44
18	578.04	577.21	577.54	577.85	577.91	577.96	578.15	578.18	578.14	577.66	577.69	577.45
19	577.98	577.33	577.50	577.72	577.91	578.16	578.12	578.16	578.21	578.22*	577.59	577.58
20	577.92	577.61	577.57	577.87	577.88	578.04	578.20	578.13	578.14	578.06*	577.85	577.35
21	577.74	577.54	577.41	577.66	577.86	578.04	578.35	578.12	578.08	577.91	577.89	577.07
22	577.92	577.35	577.34	577.48	577.86	578.23	578.23	578.06	578.23	577.79	577.71	577.30
23	577.80	577.34	577.35	577.47	577.79	578.19	578.15	578.05	578.20	577.96	577.57	577.31
24	577.68	577.47	577.37	577.81	577.81	578.06	578.12	578.15	578.06	577.88	577.53	577.32
25	577.22	577.74	577.33	577.82	577.82	578.23	578.04	578.01	577.90	577.75	577.47	577.36
26	577.17	577.68	577.24	577.69	577.88	578.21	578.24	577.98	577.75	577.83	577.08	577.23
27	577.46	577.40	577.36	577.72	577.95	578.16	578.26	577.97	578.00	577.97	577.38	577.04
28	577.46	577.43	577.17	577.76	577.92	578.02	578.32	577.89	578.36	577.97	577.79	577.29
29	577.52		577.23	577.83	577.83	578.03	578.35	577.86	578.05	577.73	577.64	577.32
30	577.53		577.27	577.88	577.94	578.21	578.23	578.01	577.84	577.64	577.46	577.20
31	577.32		577.36		577.96		578.13	577.98		577.56		576.82
MEAN	578.01	577.39	577.48	577.59	577.89	578.00	578.20	578.11	578.15	577.93	577.66	577.40
MAX.	579.41	577.94	578.67	578.35	578.43	578.53	578.59	578.54	578.71	578.80	578.69	578.16
	0200/07	1200/04	0700/17	1000/14	2300/11	1700/25	0300/29	0800/16	0200/09	0800/02	1000/06	2400/09
MIN.	576.92	576.63	576.98	576.73	577.42	577.55	577.89	577.64	577.47	577.10	576.87	576.43
	2200/25	1000/01	1600/28	1000/01	1800/04	0900/08	0500/13	1600/29	0100/10	2400/17	2000/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 577.82

ANNUAL SUMMARY OF LEVELS, 1981

Station 4090: Mouth of Black River, Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	578.55	Jul	577.67	Feb
Daily mean elevation:	578.97	7 Oct	577.13	31 Dec
Instant/hourly Elevation:	579.45	0200/7 Jan	576.71	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.94	7 Jan
578.10	25 Feb
578.19	17 Mar
578.26	20 Apr
578.52	11 May
578.63	25 Jun
578.74	21 Jul
578.78	16 Aug
578.83	8 Sep
578.97	7 Oct
578.60	6 Nov
578.40	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.41	26 Jan
577.20	1 Feb
577.52	28 Mar
577.48	4 Apr
577.97	4 May
578.13	8 Jun
578.38	25 Jul
578.21	29 Aug
578.08	26 Sep
577.87	31 Oct
577.42	26 Nov
577.13	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
578.80	1								1	2			578.80	4
578.60	3					3	6	4	9	1			578.60	30
578.40	5				3	9	24	20	15	3	1		578.40	110
578.20	8			4	16	14	1	7	4	13	5	3	578.20	185
578.00	5	2	4	10	11	4			1	8	10	2	578.00	242
577.80	2	3	12	8	1					4	12	6	577.80	290
577.60	5	15	12	5							1	13	577.60	341
577.40	2	7	3	3							1	4	577.40	361
577.20												2	577.20	363
577.00		1										1	577.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4090: Mouth of Black River, Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.25	577.20*	577.90	577.50	578.20	578.20	578.55	578.48	578.32	578.06	578.09*	577.47
2	578.60	577.67	578.16	577.79	578.20	578.20	578.48	578.44	578.63	578.94	578.15	577.60
3	578.56	577.71	577.97	577.50	578.01	578.19	578.48	578.48	578.59	578.66	578.04	577.81
4	578.76	577.86	577.77	577.48	577.97	578.30	578.50	578.52	578.70	578.38	578.08	577.90
5	578.44	577.62	577.95	577.95	578.18	578.23	578.52	578.62	578.76	578.36	577.96	578.04
6	578.20	577.66	578.01	577.92	578.40	578.35	578.50	578.52	578.72	578.47	578.60	577.80
7	578.94	577.49	578.00	577.63	578.16	578.34	578.50	578.44	578.59	578.97	578.33	577.79
8	578.68	577.51	577.88	577.69	578.11	578.13	578.51	578.52	578.83	578.58	578.20	578.25
9	578.48	577.69	577.80	577.93	578.09	578.35	578.60	578.53	578.70	578.34	578.32	578.30
10	578.64	577.47	577.80	577.76	578.42	578.36	578.58	578.49	578.58	578.21	577.90	578.40
11	578.58	577.68	577.89	577.89	578.52	578.35	578.56	578.54	578.46	578.33	578.17	578.11
12	578.30*	577.78	577.73	577.89	578.50	578.32	578.53	578.51	578.55	578.24	577.88	577.79
13	578.21	577.63	578.07	577.83	578.34	578.30	578.61	578.51	578.53	578.08	577.92	577.72
14	578.28	577.68	577.87	578.21	578.33	578.23	578.74	578.44	578.60	578.02	577.91	577.70
15	578.21	577.46	577.97	578.12	578.40	578.29	578.58	578.61	578.62	578.23	577.89	577.79
16	578.36	577.42	577.98	577.97	578.38	578.43	578.54	578.78	578.57	578.38	577.91	577.82
17	578.24	577.47	578.19	578.01	578.32	578.49	578.50	578.62	578.62	577.87*	578.02	577.83
18	578.23	577.51	577.91	578.24	578.27	578.33	578.50	578.56	578.51	578.00	578.09	577.85
19	578.18	577.66	577.87	578.09	578.28	578.57	578.47	578.55	578.58	578.46	577.98	577.98
20	578.16	577.99	577.94	578.26	578.25	578.43	578.55	578.53	578.52	578.17	578.24	577.69
21	577.95	577.88	577.78	578.02	578.24	578.43	578.74	578.50	578.46	578.29	578.30	577.39
22	578.12	577.67	577.72	577.81	578.24	578.60	578.59	578.44	578.62	578.16	578.10	577.66
23	578.03	577.66	577.71	577.78	578.17	578.57	578.52	578.43	578.57	578.32	577.93	577.70
24	577.91	577.77	577.74	578.17	578.18	578.40	578.47	578.56	578.41	578.22	577.90	577.68
25	577.48	578.10	577.70	578.20	578.18	578.63	578.38	578.40	578.25	578.09	577.86	577.72
26	577.41	578.04	577.59	578.06	578.26	578.61	578.60	578.36	578.08	578.19	577.42	577.57
27	577.74	577.71	577.75	578.07	578.35	578.53	578.63	578.34	578.34	578.34	577.77	577.36
28	577.70	577.72	577.52	578.12	578.28	578.38	578.68	578.25	578.77	578.33	578.22	577.64
29	577.75		577.59	578.20	578.18	578.43	578.71	578.21	578.43	578.08	578.06	577.66
30	577.78		577.63	578.24	578.31	578.61	578.57	578.39	578.21	577.97	577.86	577.56
31	577.69*		577.72		578.33		578.45	578.34		577.87		577.13
MEAN	578.19	577.67	577.84	577.94	578.26	578.39	578.55	578.48	578.54	578.28	578.04	577.76
MAX.	579.45	578.20	579.17	578.77	578.82	578.96	579.00	578.95	579.14	579.24	579.14	578.57
	0200/07	1200/04	0900/17	2300/14	2400/11	1700/25	0200/14	0800/16	0200/09	0800/02	1000/06	0100/10
MIN.	577.21	576.94	577.28	576.89	577.84	577.87	578.19	578.05	577.86	577.36	577.15	576.71
	2200/25	1300/01	2300/28	0900/04	0600/04	0400/14	0500/13	1300/29	0100/10	2400/17	1900/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 578.16

ANNUAL SUMMARY OF LEVELS, 1981

Station 4096: Dunn Paper Co., Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.01	Jul	578.07	Feb
Daily mean elevation:	579.44	7 Oct	577.48	31 Dec
Instant/hourly Elevation:	579.93	0900/17 Mar	577.04	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.14	7 Jan
578.51	25 Feb
578.68	17 Mar
578.79	20 Apr
579.03	11 May
579.08	25 Jun
579.21	14 Jul
579.08	5 Aug
579.37	8 Sep
579.44	7 Oct
579.16	6 Nov
578.89	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.86	26 Jan
577.62	1 Feb
577.96	28 Mar
577.86	4 Apr
578.42	4 May
578.56	8 Jun
578.86	25 Jul
578.62	29 Aug
578.51	26 Sep
578.30	31 Oct
577.82	26 Nov
577.48	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.40										1			579.40	1
579.20							1		3	1			579.20	6
579.00	1				1	6	14	3	9	2	1		579.00	43
578.80	4				8	11	16	20	11	3	1	1	578.80	118
578.60	3		2	8	18	12		5	4	14	6	2	578.60	192
578.40	11	3	8	10	4	1			1	6	9	3	578.40	248
578.20	8	2	12	6						4	11	9	578.20	300
578.00	2	13	8	3							1	9	578.00	336
577.80	2	9	1	3							1	4	577.80	356
577.60		1										2	577.60	359
577.40												1	577.40	360

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4096: Dunn Paper Co., Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.51	577.62	578.36	577.93	578.70	578.69	579.02	578.90	578.67*	578.41	578.56	577.84
2	578.82	578.16	578.61	578.25	578.68	578.66	578.96	578.87	579.06*	579.34	578.59	577.99
3	578.78	578.14	578.43	577.92	578.47	578.63	578.95	578.93	579.05*	579.05	578.48	578.27
4	578.94	578.26	578.22	577.86	578.42	578.76	578.94	579.00	579.09*	578.77	578.53	578.38
5	578.55	577.97	578.43	578.44	578.66	578.68	578.99	579.08	579.23*	578.75	578.40	578.49
6	578.32	578.03	578.49	578.42	578.93	578.82	578.97	578.98	/	578.91	579.16	578.27
7	579.14	577.85	578.49	578.09	578.66	578.79	578.95	578.88	/	579.44	578.81	578.22
8	578.82	577.93	578.36	578.16	578.59	578.56	578.95	578.94	579.37*	579.01	578.65	578.74
9	578.65	578.10	578.27	578.44	578.55	578.83	579.06	578.97	579.13	578.76	578.78	578.79
10	578.83	577.90	578.28	578.24	578.94	578.82	579.02	578.91	578.99	578.65	578.32	578.89
11	578.75	578.11	578.37	578.39	579.03	578.82	578.99	578.96	578.89	578.77	578.70	578.57
12	578.49	578.13	578.17	578.40	578.99	578.80	578.97	578.96	579.00	578.68	578.36	578.23
13	578.40	577.97	578.58	578.31	578.80	578.77	579.10	578.95	578.98	578.50	578.36	578.16
14	578.49	578.06	578.34	578.71	578.80	578.66	579.21	578.84*	579.07	578.43	578.35	578.15
15	578.41	577.84	578.42	578.59	578.87	578.72	579.04	/	579.08	578.67	578.33	578.25
16	578.59	577.82	578.47	578.43	578.85	578.89	579.02	/	579.06	578.84	578.36	578.28
17	578.46	577.90	578.68	578.47	578.80	578.95	578.99	/	579.09	578.31	578.45	578.28
18	578.46	577.94	578.40	578.75	578.77	578.75	578.96	579.02*	578.96	578.36	578.55	578.29
19	578.43	578.10	578.36	578.58	578.76	579.01	578.92	578.99	579.00	578.94	578.45	578.44
20	578.43	578.41	578.43	578.79	578.73	578.88	579.01	578.99	578.97	578.60	578.69	578.15
21	578.24	578.31	578.25	578.51	578.72	578.86	579.20	578.95	578.92	578.79	578.77	577.75
22	578.44	578.09	578.18	578.30	578.72	579.07	579.06	578.91	579.06	578.63	578.56	578.08
23	578.39	578.02	578.19	578.19	578.64	579.03	578.97	578.90	579.00	578.78	578.37	578.07
24	578.28	578.16	578.24	578.66	578.66	578.84	578.92	579.03	578.83	578.67	578.36	578.06
25	577.89	578.51	578.19	578.72	578.65	579.08	578.86	578.87	578.68	578.53	578.30	578.12
26	577.86	578.46	578.03	578.54	578.76	579.07	579.08	578.82	578.51	578.67	577.82	577.98
27	578.26	578.10	578.24	578.58	578.83	578.98	579.09	578.80	578.80	578.79	578.15	577.74
28	578.18	578.13	577.96	578.62	578.80	578.80	579.15	578.68	579.27	578.76	578.69	578.06
29	578.25		578.02	578.67	578.68	578.84	579.16	578.62	578.88	578.48	578.50	578.10
30	578.26		578.07	578.72	578.83	579.07	579.02	578.79*	578.62	578.38	578.29	577.94
31	578.04		578.18		578.84		578.92	578.78		578.30		577.48
MEAN	578.46	578.07	578.31	578.42	578.75	578.84	579.01	578.90	578.97	578.71	578.49	578.20
MAX.	579.57	578.65	579.93	579.33	579.31	579.45	579.59	579.45	579.61	579.66	579.73	579.07
	0200/07	0400/26	0900/17	2300/14	2400/11	1700/25	2100/28	1700/04	0100/09	1100/07	1000/06	0900/08
MIN.	577.60	577.15	577.70	577.25	578.24	578.25	578.62	578.44	578.16	577.71	577.48	577.04
	2200/25	1000/01	2300/28	0900/04	1100/04	0400/14	0500/13	1600/29	0100/10	1100/18	1700/26	2000/31

ANNUAL MEAN: 578.59

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 4098: Fort Gratiot, Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.35	Jul	578.50	Dec
Daily mean elevation:	579.83	7 Oct	577.75	31 Dec
Instant/hourly Elevation:	580.22	1000/6 Nov	577.26	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
	Feb
	Mar
579.14	20 Apr
579.39	11 May
579.42	30 Jun
579.59	14 Jul
579.60	16 Aug
579.63	28 Sep
579.83	7 Oct
579.55	6 Nov
579.29	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
	Feb
	Mar
578.44	23 Apr
578.70	4 May
578.87	8 Jun
579.16	25 Jul
578.90	29 Aug
578.77	26 Sep
578.55	31 Oct
578.05	26 Nov
577.75	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.80										1			579.80	1
579.60									1	1			579.60	3
579.40						2	8	3	9		1		579.40	26
579.20					5	6	22	16	13	3		1	579.20	92
579.00				5	13	15	1	10	4	11	5	2	579.00	158
578.80				8	11	7		2	2	7	7	2	578.80	204
578.60				4	2				1	6	12	2	578.60	231
578.40				3						2	4	14	578.40	254
578.20												6	578.20	260
578.00											1	3	578.00	264
577.80													577.80	264
577.60												1	577.60	265

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4098: Fort Gratiot, Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	/	/	579.00	578.97	579.38	579.25	579.02	578.61	578.86	578.02
2	/	/	/	/	579.00	578.97	579.28	579.20	579.42	579.68	578.91	578.24
3	/	/	/	/	578.77	578.95	579.26	579.21	579.37	579.35	578.80	578.56
4	/	/	/	/	578.70	579.09	579.26	579.27	579.43	579.03	578.84	578.67
5	/	/	/	/	579.00	578.98	579.32	579.41	579.48	579.02	578.67	578.83
6	/	/	/	/	579.31	579.13	579.30	579.28	579.45	579.14	579.55	578.53
7	/	/	/	/	578.96	579.15	579.28	579.17	579.28	579.83	579.15	578.50
8	/	/	/	/	578.91	578.87	579.28	579.25	579.60	579.34	578.96	579.14
9	/	/	/	/	578.88	579.14	579.41	579.29	579.42	579.07	579.13	579.18
10	/	/	/	/	579.30	579.14	579.37	579.21	579.25	578.96	578.60	579.29
11	/	/	/	578.89*	579.39	579.13	579.30	579.30	579.18	579.09	579.03	578.92
12	/	/	/	578.67	579.31	579.11	579.26	579.31	579.30	578.98	578.66	578.53
13	/	/	/	578.60	579.11	579.07	579.42	579.29	579.29	578.79	578.65	578.45
14	/	/	/	579.01	579.10	578.94	579.59	579.18	579.40	578.70	578.64	578.44
15	/	/	/	578.88	579.21	579.00	579.37	579.37	579.42	579.01	578.64	578.55
16	/	/	/	578.69	579.18	579.19	579.35	579.60	579.40	579.20	578.65	578.59
17	/	/	/	578.74	579.13	579.28	579.30	579.42	579.46	578.59	578.76	578.60
18	/	/	/	579.04	579.09	579.04	579.29	579.37	579.30	578.62	578.87	578.60
19	/	/	/	578.87	579.08	579.38	579.24	579.33	579.32	579.32	578.76	578.80
20	/	/	/	579.14	579.03	579.20	579.34	579.29	579.31	578.93	579.01	578.43
21	/	/	/	578.80	579.00	579.19	579.58	579.24	579.26	579.17	579.12	578.02
22	/	/	/	578.55	579.03	579.39	579.40	579.19	579.43	578.96	578.87	578.36
23	/	/	/	578.44	578.92	579.37	579.31	579.19	579.36	579.10	578.68	578.36
24	/	/	/	578.98	578.92	579.13	579.24	579.34	579.14	578.98	578.68	578.31
25	/	/	/	579.04	578.94	579.42	579.16	579.16	578.99	578.84	578.59	578.42
26	/	/	/	578.84	579.04	579.40	579.43	579.10	578.77	578.96	578.05	578.26
27	/	/	/	578.85	579.16	579.28	579.45	579.11	579.09	579.14	578.42	578.01
28	/	/	/	578.88	579.13	579.08	579.47	578.98	579.63	579.08	579.00	578.41
29	/		/	578.98	578.95	579.16	579.53	578.90	579.21	578.78	578.79	578.44
30	/		/	579.01	579.15	579.42	579.35	579.10	578.90	578.66	578.59	578.25
31	/		/		579.17		579.23	579.06		578.55		577.75
MEAN	/	/	/	578.84	579.06	579.15	579.35	579.24	579.30	579.02	578.80	578.50
MAX.				579.71	579.81	579.84	579.99	579.83	580.05	580.11	580.22	579.50
				0300/20	1700/05	0600/22	2100/28	2400/15	0100/09	1100/07	1000/06	0900/08
MIN.				578.21	578.55	578.42	578.90	578.69	578.54	577.79	577.68	577.26
				1400/23	0500/03	0400/14	0500/13	1300/29	2200/30	1100/18	1700/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.03

ANNUAL SUMMARY OF LEVELS, 1981

Station 5002: Lakeport, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	579.52	Jul	578.52	Feb	
Daily mean elevation:	580.00	7 Oct	577.91	31 Dec	
Instant/hourly Elevation:	580.44	0900/17 Mar	577.46	1900/31 Dec	

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.22	7 Jan
578.97	25 Feb
579.21	17 Mar
579.29	20 Apr
579.54	11 May
579.63	30 Jun
579.74	14 Jul
579.74	16 Aug
579.81	28 Sep
580.00	7 Oct
579.62	6 Nov
579.38	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.30	25 Jan
578.16	1 Feb
578.44	28 Mar
578.36	4 Apr
578.88	4 May
579.08	8 Jun
579.34	25 Jul
579.14	29 Aug
579.00	26 Sep
578.76	31 Oct
578.25	26 Nov
577.91	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.80									1	1			579.80	2
579.60						2	5	2	7	1	1		579.60	20
579.40					4	6	24	17	15	3			579.40	89
579.20	1		1	4	15	16	2	10	4	9	6	3	579.20	160
579.00	3		4	9	10	6		2	2	9	7	2	579.00	214
578.80	3	3	11	8	2				1	5	13	2	578.80	262
578.60	17	4	11	5						3	1	11	578.60	314
578.40	5	11	4	1							1	8	578.40	344
578.20	2	9		3							1	2	578.20	361
578.00		1										2	578.00	364
577.80												1	577.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5002: Lakeport, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.67	578.16	578.83	578.38	579.18	579.20	579.57	579.39	579.24	578.79	579.06	578.23
2	579.10	578.70	579.08	578.76	579.20	579.17	579.46	579.38	579.58	579.75	579.09	578.41
3	579.05	578.66	578.93	578.40	578.92	579.16	579.44	579.42	579.54	579.49	578.97	578.76
4	579.10	578.69	578.73	578.36	578.88	579.28	579.45	579.46	579.62	579.21	579.04	578.87
5	578.79	578.36	578.93	578.93	579.18	579.20	579.49	579.61	579.66	579.17	578.86	579.01
6	578.59	578.46	579.01	578.96	579.43	579.32	579.46	579.47	579.61	579.27	579.62	578.77
7	579.22	578.27	579.01	578.59	579.20	579.33	579.47	579.42	579.46	580.00	579.31	578.73
8	578.88	578.38	578.87	578.69	579.11	579.08	579.45	579.41	579.75	579.52	579.15	579.23
9	578.77	578.56	578.78	578.93	579.09	579.37	579.55	579.46	579.63	579.26	579.31	579.30
10	578.95	578.38	578.79	578.77	579.50	579.33	579.54	579.41	579.51	579.15	578.86	579.38
11	578.88	578.57	578.88	578.94	579.54	579.33	579.52	579.47	579.38	579.26	579.22	579.07
12	578.64	578.58	578.67	578.92	579.48	579.29	579.44	579.46	579.48	579.16	578.85	578.73
13	578.55	578.37	579.13	578.81	579.30	579.27	579.60	579.46	579.47	578.97	578.85	578.70
14	578.65	578.47	578.85	579.17	579.32	579.20	579.74	579.36	579.58	578.90	578.82	578.66
15	578.60	578.29	578.91	579.09	579.36	579.23	579.55	579.57	579.59	579.18	578.82	578.73
16	578.80	578.31	578.96	578.92	579.37	579.36	579.54	579.74	579.60	579.37	578.84	578.78
17	578.71	578.39	579.21	578.94	579.30	579.45	579.47	579.60	579.64	578.81	578.96	578.80
18	578.73	578.40	578.91	579.26	579.28	579.25	579.47	579.52	579.51	578.79	579.07	578.79
19	578.70	578.56	578.87	579.09	579.28	579.53	579.43	579.51	579.52	579.49	579.02	578.93
20	578.70	578.82	578.98	579.29	579.23	579.37	579.51	579.48	579.50	579.13	579.21	578.63
21	578.50	578.71	578.79	579.01	579.22	579.39	579.65*	579.43	579.46	579.34	579.23	578.19
22	578.75	578.50	578.70	578.78	579.23	579.61	579.58	579.37	579.63	579.17	579.07	578.56
23	578.75	578.44	578.70	578.65	579.14	579.54	579.47	579.39	579.53	579.29	578.88	578.52
24	578.66	578.56	578.74	579.17	579.12	579.32	579.41	579.53	579.32	579.18	578.88	578.53
25	578.30	578.97	578.69	579.24	579.17	579.60	579.34	579.35	579.18	579.04	578.80	578.60
26	578.36	578.89	578.52	579.05	579.27	579.60	579.59	579.30	579.00	579.14	578.25	578.44
27	578.80	578.56	578.74	579.05	579.35	579.47	579.63	579.30	579.26	579.29	578.53	578.14
28	578.65	578.58	578.44	579.11	579.33	579.29	579.64	579.18	579.81	579.26	579.22	578.53
29	578.73		578.48	579.19	579.20	579.32	579.66	579.14	579.42	578.96	579.00	578.57
30	578.75		578.55	579.22	579.39	579.63	579.53	579.31	579.15	578.82	578.81	578.39
31	578.54		578.68		579.38		579.40	579.28		578.76		577.91
MEAN	578.74	578.52	578.82	578.92	579.26	579.35	579.52	579.43	579.49	579.19	578.99	578.67
MAX.	579.95	579.43	580.44	579.90	579.80	579.91	580.01	580.00	580.25	580.25	580.13	579.64
	0100/07	0100/28	0900/17	2300/14	2300/11	1700/25	2100/28	2300/15	0600/28	1800/07	0900/06	1400/13
MIN.	577.93	577.78	578.13	577.73	578.60	578.82	579.11	578.89	578.70	577.99	577.79	577.46
	2000/21	1000/01	2300/28	0900/04	0500/04	2400/15	2100/17	0400/29	2200/30	0900/01	2300/26	1900/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.08

ANNUAL SUMMARY OF LEVELS, 1981

Station 5014: Harbor Beach, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.44	Jul	578.51	Feb
Daily mean elevation:	579.74	7 Oct	578.10	31 Dec
Instant/hourly Elevation:	580.04	0400/28 Sep	577.74	2100/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.00	7 Jan
578.86	25 Feb
578.97	17 Mar
579.15	25 Apr
579.33	12 May
579.52	30 Jun
579.60	14 Jul
579.54	16 Aug
579.74	28 Sep
579.74	7 Oct
579.41	6 Nov
579.08	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.38	25 Jan
578.25	1 Feb
578.46	28 Mar
578.39	1 Apr
578.86	4 May
579.10	2 Jun
579.31	25 Jul
579.10	29 Aug
579.03	26 Sep
578.75	31 Oct
578.37	26 Nov
578.10	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.60									2	1			579.60	3
579.40						7	23	9	15	3	1		579.40	61
579.20					13	17	8	20	10	5	1		579.20	135
579.00				10	16	6		2	3	14	8	3	579.00	197
578.80	5	1	9	10	2					7	12	2	578.80	245
578.60	18	6	17	7						1	6	15	578.60	315
578.40	7	16	5	2							1	8	578.40	354
578.20	1	5		1							1	1	578.20	363
578.00												2	578.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5014: Harbor Beach, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.61	578.25	578.80	578.39	579.04	579.13	579.46	579.33	579.23	578.84	578.99	578.35
2	578.98	578.65	578.97	578.74	579.10	579.10	579.34	579.34	579.44	579.43	579.04	578.50
3	578.88	578.66	578.86	578.51	578.91	579.12	579.34	579.35	579.39	579.36	578.94	578.78
4	578.94	578.67	578.69	578.47	578.86	579.25	579.38	579.38	579.55	579.17	578.99	578.79
5	578.78	578.42	578.79	578.89	579.08	579.19	579.42	579.51	579.55	579.13	578.87	578.90
6	578.65	578.47	578.86	578.92	579.19	579.27	579.43	579.36	579.50	579.26	579.41	578.75
7	579.00	578.35	578.91	578.63	579.14	579.22	579.39	579.35	579.42	579.74	579.21	578.69
8	578.79	578.41	578.79	578.71	579.04	579.11	579.42	579.34	579.66	579.41	579.07	579.02
9	578.70	578.57	578.72	578.88	579.06	579.33	579.52	579.44	579.57	579.14	579.16	579.06
10	578.86	578.43	578.73	578.80	579.29	579.27	579.52	579.39	579.50	579.06	578.89	579.08
11	578.80	578.54	578.82	578.87	579.29	579.31	579.46	579.44	579.37	579.15	579.10	578.92
12	578.64	578.60	578.69	578.81	579.33	579.24	579.44	579.43	579.48	579.09	578.82	578.67
13	578.51	578.38	578.97	578.76	579.22	579.21	579.54	579.42	579.45	578.96	578.82	578.64
14	578.59	578.46	578.80	579.05	579.22	579.16	579.60	579.33	579.48	578.92	578.78	578.63
15	578.56	578.33	578.84	579.05	579.23	579.28	579.44	579.52	579.50	579.12	578.78	578.69
16	578.65	578.38	578.77	578.93	579.25	579.35	579.45	579.54	579.51	579.27	578.79	578.73
17	578.67	578.42	578.97	578.97	579.15	579.43	579.46	579.46	579.48	578.92	578.88	578.68
18	578.69	578.41	578.79	579.14	579.16	579.26	579.44	579.43	579.39	578.89	579.02	578.74
19	578.66	578.49	578.77	579.02	579.21	579.44	579.42	579.40	579.47	579.49	578.90	578.79
20	578.61	578.62	578.83	579.04	579.20	579.31	579.43	579.37	579.45	579.22	579.09	578.66
21	578.50	578.61	578.71	578.93	579.20	579.30	579.54	579.35	579.33	579.18	579.06	578.44
22	578.71	578.44	578.60	578.71	579.19	579.51	579.44	579.30	579.36	579.08	579.00	578.53
23	578.70	578.42	578.61	578.63	579.12	579.49	579.38	579.35	579.37	579.21	578.82	578.53
24	578.61	578.55	578.65	579.04	579.07	579.29	579.34	579.40	579.28	579.19	578.78	578.65
25	578.38	578.86	578.63	579.15	579.16	579.49	579.31	579.26	579.15	579.02	578.78	578.67
26	578.43	578.75	578.50	578.97	579.23	579.52	579.47	579.24	579.03	579.06	578.37	578.45
27	578.74	578.58	578.62	578.99	579.21	579.40	579.52	579.24	579.30	579.10	578.57	578.20
28	578.59	578.51	578.46	579.01	579.22	579.26	579.49	579.14	579.74	579.15	579.18	578.53
29	578.63		578.53	579.13	579.16	579.31	579.50	579.10	579.32	578.90	578.96	578.57
30	578.66		578.54	579.14	579.29	579.52	579.47	579.25	579.11	578.81	578.77	578.45
31	578.51		578.64		579.31		579.36	579.24		578.75		578.10
MEAN	578.68	578.51	578.74	578.88	579.17	579.30	579.44	579.35	579.41	579.13	578.93	578.65
MAX.	579.20	578.94	579.39	579.51	579.47	579.70	579.77	579.76	580.04	579.86	579.65	579.24
	0900/02	1700/25	0700/17	2200/14	0100/31	2200/25	1700/28	2200/15	0400/28	1000/07	0800/06	2300/09
MIN.	578.17	578.04	578.26	578.11	578.74	578.90	579.20	578.93	578.79	578.46	578.03	577.74
	1900/21	1500/01	2000/28	1100/01	0600/04	0300/21	1400/25	0500/29	2000/30	1500/01	1900/26	2100/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.02

ANNUAL SUMMARY OF LEVELS, 1981

Station 5035: Essexville, Michigan on Lake Huron (Saginaw Bay)

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.54	Jul	578.50	Feb
Daily mean elevation:	580.86	10 May	577.85	4 Apr
Instant/hourly Elevation:	581.70	1400/10 May	576.87	1500/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.86	2 Jan
578.79	22 Feb
579.17	17 Mar
579.51	20 Apr
580.86	10 May
579.73	30 Jun
580.20	28 Jul
579.99	16 Aug
580.46	17 Sep
579.77	2 Oct
580.26	20 Nov
579.29	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.36	26 Jan
578.23	8 Feb
578.44	29 Mar
577.85	4 Apr
578.81	3 May
578.76	8 Jun
579.26	25 Jul
579.00	29 Aug
578.58	27 Sep
577.98	18 Oct
578.00	27 Nov
577.92	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
580.80					1								580.80	1
580.60													580.60	1
580.40					1				1				580.40	3
580.20											1		580.20	4
580.00							1		1				580.00	6
579.80					1		2	1	2				579.80	12
579.60						2	5	1	3	2			579.60	25
579.40				1	5	7	19	11	9	2	1		579.40	80
579.20				6	11	9	4	17	9	9	3	3	579.20	151
579.00			2	6	10	11			3	10	5		579.00	198
578.80	1		9	5	2			1	1	5	13	4	578.80	239
578.60	23	7	15	7		1				1	4	6	578.60	303
578.40	6	11	5	2					1	1	2	9	578.40	340
578.20	1	10		1								4	578.20	356
578.00												3	578.00	359
577.80				2						1	1	2	577.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5035: Essexville, Michigan on Lake Huron (Saginaw Bay)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.56	578.27	578.75	577.91	579.26	579.12	579.84	579.30	579.18	578.66	579.05	578.40
2	578.86	578.55	578.85	578.71	579.21	579.20	579.66	579.28	579.55	579.77	579.07	578.09
3	578.77	578.54	578.83	578.34	578.81	579.15	579.46	579.34	579.64	579.40	579.00	578.64
4	578.76	578.55	578.71	577.85	578.88	579.28	579.46	579.35	579.96	579.22	579.03	578.87
5	578.64	578.30	578.91	578.67	579.24	579.15	579.51	579.56	579.81	579.10	578.82	578.90
6	578.48	578.40	578.86	578.88	579.82	579.27	579.44	579.41	579.59	579.01	579.41	578.57
7	578.80	578.39	578.88	578.46	579.17	579.34	579.41	579.33	579.35	579.72	579.23	578.58
8	578.74	578.23	578.79	578.68	579.11	578.76	579.33	579.50	579.56	579.52	578.99	579.25
9	578.61	578.53	578.72	578.94	579.13	579.22	579.49	579.39	579.41	579.28	579.29	579.26
10	578.77	578.61	578.73	578.73	580.86	579.20	579.49	579.27	579.20	579.19	578.41	579.29
11	578.69	578.35	578.80	578.98	580.58	579.24	579.51	579.45	579.25	579.35	579.19	579.00
12	578.63	578.54	578.55	579.38	579.48	579.27	579.42	579.32	579.48	579.25	578.91	578.68
13	578.57	578.38	579.01	578.80	579.23	579.26	579.57	579.49	579.40	579.02	578.76	578.49
14	578.63	578.45	578.65	579.12	579.27	579.05	579.84	579.23	579.53	578.90	578.87	578.52
15	578.64	578.34	578.61	578.95	579.32	579.14	579.55	579.54	579.60	579.02	578.83	578.65
16	578.65	578.35	578.96	578.71	579.37	579.19	579.50	579.99	580.17	579.31	578.83	578.70
17	578.63	578.36	579.17	578.87	579.49	579.41	579.51	579.63	580.46	578.82	578.88	578.81
18	578.64	578.46	578.83	579.28	579.38	579.04	579.41	579.49	579.43	577.98	578.97	578.64
19	578.63	578.54	578.82	579.05	579.26	579.64	579.42	579.56	579.26	579.22	579.28	578.73
20	578.69	578.63	578.79	579.51	579.16	579.41	579.51	579.56	579.40	578.60	580.26	578.37
21	578.44	578.74	578.81	579.05	579.16	579.38	579.78	579.44	579.40	579.41	579.14	577.92
22	578.65	578.79	578.68	578.77	579.19	579.55	579.62	579.32	579.75	579.12	578.90	578.47
23	578.66	578.54	578.66	578.45	579.12	579.50	579.49	579.25	579.47	579.07	578.82	578.31
24	578.63	578.56	578.72	579.22	579.14	579.22	579.38	579.59	579.24	579.04	578.92	577.97
25	578.47	578.77	578.67	579.18	579.07	579.50	579.26	579.34	579.12	578.84	578.79	578.50
26	578.36	578.77	578.51	579.01	579.26	579.54	579.66	579.27	578.99	579.35	578.55	578.57
27	578.74	578.64	578.73	579.02	579.48	579.44	579.69	579.37	578.58	579.20	578.00	578.17
28	578.62	578.46	578.44	579.39	579.31	579.12	580.20	579.33	579.63	579.32	578.95	578.41
29	578.62		578.44	579.21	579.12	579.14	579.55	579.00	579.38	579.02	578.80	578.47
30	578.62		578.50	579.33	579.46	579.73	579.49	579.23	579.33	578.95	578.79	578.34
31	578.57		578.79		579.41		579.33	579.27		578.82		578.19
MEAN	578.64	578.50	578.75	578.88	579.35	579.28	579.54	579.40	579.47	579.11	578.96	578.57
MAX.	579.25	578.92	580.38	580.12	581.70	580.22	580.98	580.54	581.30	580.17	581.35	579.83
	1400/02	1500/10	1000/17	0500/20	1400/10	2000/30	2100/28	1200/16	2400/16	0500/02	0700/20	0900/08
MIN.	578.01	577.73	578.01	577.21	578.56	578.18	578.95	578.71	577.88	576.87	577.15	577.38
	1300/26	0200/08	1000/12	1500/01	1100/03	1000/08	0800/25	0800/29	0400/10	1500/18	0500/27	0700/24

ANNUAL MEAN: 579.04

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981
Station 5059: Harrisville, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.35	Jul	578.46	Feb
Daily mean elevation:	579.46	9 Sep	578.19	27 Dec
Instant/hourly Elevation:	579.64	2000/25 Jun	578.00	0200/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.78	2 Jan
578.67	25 Feb
578.79	15 Mar
579.07	25 Apr
579.20	31 May
579.41	26 Jun
579.45	14 Jul
579.39	15 Aug
579.46	9 Sep
579.33	7 Oct
579.05	7 Nov
578.73	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.41	25 Jan
578.31	1 Feb
578.49	26 Mar
578.42	1 Apr
578.89	4 May
579.01	2 Jun
579.27	31 Jul
579.08	29 Aug
578.97	26 Sep
578.75	31 Oct
578.50	27 Nov
578.19	27 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.40						1	3		4				579.40	8
579.20						17	28	23	16	3			579.20	95
579.00				2	26	12		8	8	13	2		579.00	166
578.80				14	5				2	13	12		578.80	212
578.60	15	2	22	11						2	14	10	578.60	288
578.40	16	18	9	3							2	18	578.40	354
578.20		8										1	578.20	363
578.00												2	578.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5059: Harrisville, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.50	578.31	578.73	578.42	578.94	579.06	579.31	579.27	579.15	578.84	578.89	578.50
2	578.78	578.49	578.74	578.68	579.03	579.01	579.31	579.25	579.29	579.04	578.90	578.58
3	578.67	578.56	578.77	578.52	578.91	579.07	579.30	579.28	579.25	579.20	578.87	578.72
4	578.68	578.51	578.64	578.54	578.89	579.17	579.30	579.28	579.40	579.06	578.90	578.64
5	578.74	578.46	578.64	578.77	579.01	579.16	579.34	579.37	579.36	579.01	578.85	578.73
6	578.61	578.44	578.70	578.82	579.03	579.19	579.35	579.29	579.34	579.03	579.04	578.65
7	578.69	578.40	578.75	578.67	579.03	579.17	579.36	579.26	579.31	579.33	579.05	578.63
8	578.69	578.38	578.69	578.69	578.97	579.08	579.37	579.28	579.41	579.22	578.92	578.72
9	578.61	578.54	578.67	578.83	578.98	579.23	579.41	579.35	579.46	579.03	578.97	578.67
10	578.70	578.47	578.66	578.80	579.05	579.19	579.44	579.31	579.43	578.95	578.83	578.70
11	578.62	578.35	578.70	578.80	579.01	579.23	579.39	579.34	579.32	579.02	578.91	578.69
12	578.62	578.54	578.69	578.71	579.20	579.15	579.38	579.37	579.36	578.99	578.75	578.57
13	578.49	578.38	578.75	578.67	579.15	579.11	579.38	579.32	579.35	578.92	578.76	578.56
14	578.55	578.44	578.74	578.80	579.13	579.12	579.45	579.25	579.30	578.91	578.70	578.53
15	578.54	578.38	578.79	578.99	579.11	579.23	579.36	579.39	579.34	579.02	578.68	578.54
16	578.50	578.42	578.63	578.93	579.19	579.32	579.38	579.37	579.35	579.09	578.67	578.57
17	578.63	578.47	578.74	578.92	579.05	579.36	579.38	579.35	579.31	578.94	578.72	578.50
18	578.61	578.43	578.67	579.00	579.09	579.25	579.34	579.35	579.27	578.85	578.83	578.50
19	578.59	578.43	578.64	578.93	579.13	579.31	579.34	579.28	579.31	579.29	578.75	578.51
20	578.55	578.45	578.67	578.91	579.15	579.24	579.33	579.25	579.26	579.12	578.77	578.55
21	578.48	578.53	578.64	578.88	579.14	579.29	579.40	579.24	579.20	579.06	578.76	578.52
22	578.63	578.37	578.53	578.68	579.14	579.37	579.35	579.19	579.14	578.98	578.84	578.49
23	578.60	578.38	578.56	578.61	579.04	579.40	579.32	579.25	579.17	579.04	578.72	578.41
24	578.55	578.51	578.59	578.89	579.02	579.30	579.27	579.25	579.12	579.09	578.65	578.63
25	578.41	578.67	578.58	579.07	579.11	579.40	579.28	579.16	579.05	578.96	578.70	578.60
26	578.45	578.63	578.49	578.91	579.14	579.41	579.30	579.15	578.97	578.94	578.50	578.41
27	578.63	578.54	578.54	578.90	579.08	579.33	579.38	579.14	579.14	578.93	578.50	578.19
28	578.52	578.46	578.50	578.91	579.13	579.26	579.35	579.12	579.43	578.99	578.92	578.41
29	578.52		578.57	578.99	579.11	579.31	579.38	579.08	579.17	578.82	578.80	578.44
30	578.55		578.53	579.03	579.20	579.38	579.38	579.20	579.00	578.76	578.70	578.40
31	578.50		578.62		579.20		579.27	579.19		578.75		578.20
MEAN	578.59	578.46	578.65	578.81	579.08	579.24	579.35	579.26	579.27	579.01	578.80	578.54
MAX.	578.97	578.74	578.99	579.22	579.35	579.64	579.58	579.50	579.60	579.42	579.37	578.87
	1100/02	1700/25	0600/17	1400/18	1500/13	2000/25	1700/28	0200/16	0100/09	0700/19	0500/20	0500/08
MIN.	578.30	578.11	578.34	578.11	578.75	578.90	579.13	578.90	578.83	578.59	578.00	578.03
	1000/26	0100/08	2000/28	1000/01	0300/04	2200/13	0200/13	0600/29	1900/30	0900/18	0200/27	1800/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 578.92

ANNUAL SUMMARY OF LEVELS, 1981

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	579.35	Jul	578.52	Feb
Daily mean elevation:	579.49	28 Jun	578.19	11 Feb
Instant/hourly Elevation:	579.75	0200/29 Jun	577.99	0500/11 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.80	5 Jan
578.70	15 Feb
578.73	28 Mar
579.04	23 Apr
579.21	29 May
579.49	28 Jun
579.46	8 Jul
579.45	12 Aug
579.44	9 Sep
579.22	19 Oct
579.05	10 Nov
578.90	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.41	29 Jan
578.19	11 Feb
578.42	17 Mar
578.69	2 Apr
578.87	10 May
579.18	7 Jun
579.18	26 Jul
579.17	24 Aug
579.00	29 Sep
578.92	2 Oct
578.67	20 Nov
578.41	30 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.40						4	5	2	1				579.40	12
579.20					1	21	25	27	16	2			579.20	104
579.00				2	25	5	1	2	12	22	1		579.00	174
578.80				21	5				1	7	13	3	578.80	224
578.60	9	10	13	7							16	12	578.60	291
578.40	22	13	18									16	578.40	360
578.20		4											578.20	364
578.00		1											578.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.61	578.61	578.69	578.70	578.96	579.18	579.30	579.37	579.35	579.15	578.94	578.90
2	578.61	578.36	578.49	578.69	579.04	579.19	579.34	579.32	579.26	578.92	578.91	578.80
3	578.53	578.53	578.66	578.73	579.16	579.21	579.41	579.32	579.25	579.05	578.95	578.72
4	578.46	578.39	578.63	578.86	579.12	579.20	579.40	579.34	579.27	579.08	578.93	578.67
5	578.80	578.67	578.59	578.70	579.01	579.25	579.38	579.30	579.29	579.08	578.99	578.73
6	578.58	578.46	578.55	578.70	578.97	579.18	579.39	579.31	579.31	579.00	578.78	578.85
7	578.43	578.62	578.58	578.84	579.03	579.18	579.44	579.32	579.39	578.97	578.92	578.72
8	578.62	578.43	578.62	578.71	579.05	579.29	579.46	579.32	579.24	579.03	578.86	578.62
9	578.52	578.49	578.64	578.82	578.99	579.23	579.37	579.40	579.44	579.03	578.85	578.52
10	578.60	578.36	578.62	578.90	578.87	579.23	579.40	579.38	579.32	579.03	579.05	578.52
11	578.48	578.19	578.62	578.81	578.98	579.25	579.41	579.38	579.34	579.01	578.76	578.60
12	578.66	578.54	578.68	578.81	579.11	579.24	579.42	579.45	579.33	579.01	578.86	578.62
13	578.58	578.58	578.44	578.92	579.12	579.23	579.37	579.33	579.35	579.10	578.88	578.64
14	578.58	578.54	578.68	578.72	579.10	579.31	579.34	579.41	579.19	579.17	578.82	578.61
15	578.61	578.70	578.57	578.98	579.13	579.36	579.35	579.33	579.22	579.05	578.82	578.53
16	578.44	578.63	578.54	579.02	579.11	579.40	579.37	579.23	579.15	579.05	578.79	578.50
17	578.65	578.64	578.42	578.95	579.07	579.35	579.40	579.29	579.15	579.22	578.74	578.47
18	578.55	578.62	578.51	578.83	579.10	579.46	579.39	579.28	579.30	579.11	578.71	578.44
19	578.59	578.51	578.49	578.90	579.12	579.31	579.37	579.25	579.19	579.22	578.68	578.45
20	578.55	578.39	578.51	578.85	579.17	579.30	579.33	579.24	579.15	579.09	578.67	578.70
21	578.62	578.47	578.56	578.97	579.17	579.32	579.27	579.25	579.08	579.04	578.72	578.82
22	578.51	578.49	578.56	578.96	579.15	579.31	579.32	579.27	579.08	579.11	578.78	578.53
23	578.54	578.58	578.57	579.04	579.14	579.36	579.34	579.29	579.09	579.01	578.73	578.62
24	578.55	578.62	578.52	578.92	579.16	579.41	579.35	579.17	579.12	579.20	578.70	578.68
25	578.66	578.46	578.56	578.96	579.20	579.34	579.33	579.21	579.12	579.10	578.78	578.44
26	578.55	578.50	578.59	578.92	579.16	579.31	579.18	579.22	579.24	578.96	578.92	578.48
27	578.47	578.67	578.56	578.92	579.11	579.35	579.22	579.18	579.24	578.94	578.77	578.58
28	578.52	578.64	578.73	578.88	579.15	579.49	579.24	579.26	579.03	578.94	578.73	578.46
29	578.41		578.67	578.98	579.21	579.48	579.31	579.33	579.00	578.98	578.75	578.45
30	578.47		578.63	578.98	579.10	579.29	579.34	579.36	579.01	579.02	578.74	578.41
31	578.57		578.61		579.13		579.37	579.34		579.03		578.56
MEAN	578.56	578.52	578.58	578.87	579.09	579.30	579.35	579.30	579.22	579.05	578.82	578.60
MAX.	579.03	579.01	578.96	579.30	579.48	579.75	579.57	579.57	579.71	579.57	579.35	579.12
	1800/05	0500/28	1300/28	0600/04	1200/24	0200/29	1500/31	0700/15	1700/09	0800/18	1000/10	0700/01
MIN.	578.08	577.99	578.03	578.43	578.74	578.99	579.05	579.07	578.78	578.59	578.42	578.21
	2300/06	0500/11	0900/17	2200/28	0100/10	0200/04	2400/25	0800/24	1400/29	0200/02	0700/06	1800/25

ANNUAL MEAN: 578.94

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 5099: DeTour Village, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.29	Jul	Monthly mean elevation:	578.48	Feb
Daily mean elevation:	579.43	29 Jun	Daily mean elevation:	578.02	11 Feb
Instant/hourly Elevation:	579.59	1700/9 Sep	Instant/hourly Elevation:	577.73	1000/11 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.82	5 Jan
578.65	5 Feb
578.72	14 Mar
579.01	15 Apr
579.15	29 May
579.43	29 Jun
579.40	8 Jul
579.40	12 Aug
579.41	9 Sep
579.23	19 Oct
578.96	10 Nov
578.87	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.33	16 Jan
578.02	11 Feb
578.41	17 Mar
578.47	14 Apr
578.79	11 May
579.06	2 Jun
579.10	26 Jul
579.11	27 Aug
578.88	30 Sep
578.63	2 Oct
578.24	20 Nov
578.30	18 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.40						1			1				579.40	2
579.20						16	29	21	10	1			579.20	79
579.00				1	22	13	2	10	16	9			579.00	152
578.80	1			11	7				3	19	10	1	578.80	204
578.60	4	1	10	16	2					2	15	8	578.60	262
578.40	21	22	21	2							3	15	578.40	346
578.20	5	4									2	7	578.20	364
578.00		1											578.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5099: DeTour Village, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.40	578.54	578.71	578.53	578.85	579.10	579.24	579.31	579.27	578.75	578.88	578.72
2	578.57	578.30	578.51	578.73	579.00	579.06	579.26	579.26	579.23	578.63	578.87	578.65
3	578.48	578.58	578.68	578.63	579.08	579.11	579.34	579.25	579.18	579.02	578.88	578.71
4	578.39	578.37	578.60	578.79	579.02	579.17	579.34	579.28	579.21	579.03	578.91	578.53
5	578.82	578.65	578.50	578.65	578.93	579.18	579.32	579.28	579.21	578.98	578.88	578.67
6	578.63	578.47	578.51	578.75	578.87	579.14	579.34	579.26	579.26	578.81	578.67	578.78
7	578.36	578.59	578.58	578.79	579.00	579.18	579.38	579.24	579.33	578.98	578.92	578.67
8	578.64	578.38	578.61	578.66	579.01	579.16	579.40	579.23	579.15	579.05	578.77	578.39
9	578.50	578.55	578.62	578.76	578.92	579.20	579.32	579.36	579.41	578.94	578.83	578.35
10	578.58	578.43	578.60	578.88	578.80	579.19	579.37	579.34	579.31	578.91	578.96	578.35
11	578.43	578.02	578.60	578.75	578.79	579.24	579.36	579.32	579.27	578.94	578.77	578.49
12	578.64	578.60	578.68	578.66	579.07	579.18	579.32	579.40	579.28	578.95	578.79	578.52
13	578.52	578.51	578.44	578.76	579.09	579.13	579.29	579.30	579.31	578.98	578.84	578.58
14	578.51	578.50	578.72	578.47	579.10	579.20	579.33	579.31	579.14	579.04	578.76	578.59
15	578.56	578.59	578.63	579.01	579.05	579.30	579.28	579.31	579.16	578.97	578.72	578.45
16	578.33	578.57	578.47	578.99	579.10	579.36	579.31	579.16	579.07	579.04	578.69	578.45
17	578.61	578.59	578.41	578.92	578.99	579.36	579.35	579.21	579.00	579.17	578.65	578.38
18	578.54	578.57	578.51	578.75	579.04	579.35	579.31	579.24	579.18	578.87	578.72	578.30
19	578.57	578.45	578.45	578.88	579.09	579.30	579.31	579.18	579.17	579.23	578.60	578.34
20	578.50	578.33	578.47	578.68	579.13	579.24	579.26	579.17	579.08	579.12	578.24	578.62
21	578.50	578.48	578.57	578.89	579.13	579.22	579.21	579.20	579.06	578.99	578.49	578.87
22	578.53	578.42	578.50	578.79	579.14	579.26	579.24	579.19	578.91	579.00	578.73	578.53
23	578.53	578.42	578.52	578.71	579.06	579.36	579.27	579.22	579.02	578.95	578.70	578.45
24	578.53	578.55	578.50	578.70	579.08	579.34	579.24	579.17	579.08	579.19	578.59	578.67
25	578.57	578.49	578.54	578.95	579.12	579.29	579.27	579.13	579.07	579.07	578.75	578.58
26	578.48	578.51	578.50	578.89	579.13	579.30	579.10	579.16	579.11	578.89	578.81	578.46
27	578.50	578.59	578.48	578.87	579.06	579.32	579.23	579.11	579.06	578.84	578.34	578.35
28	578.48	578.50	578.68	578.81	579.10	579.39	579.13	579.18	579.12	578.92	578.77	578.43
29	578.34		578.66	578.90	579.15	579.43	579.23	579.22	579.02	578.85	578.75	578.43
30	578.44		578.53	578.99	579.01	579.30	579.33	579.29	578.88	578.84	578.72	578.41
31	578.57		578.63		579.12		579.28	579.30		578.86		578.50
MEAN	578.52	578.48	578.56	578.78	579.03	579.25	579.29	579.24	579.15	578.96	578.73	578.52
MAX.	578.96	578.77	578.89	579.19	579.27	579.54	579.48	579.49	579.59	579.48	579.10	579.06
	2200/05	0200/28	0700/15	1800/16	1800/03	0200/29	2000/03	1000/04	1700/09	2100/19	0900/10	0900/21
MIN.	578.02	577.73	578.01	578.01	578.64	578.96	578.92	579.03	578.75	578.17	578.09	578.17
	2400/06	1000/11	0900/17	1500/14	0800/11	0200/04	2100/26	2300/27	1700/30	2100/18	1100/20	2000/18

ANNUAL MEAN: 578.88

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 6050: Frechette Point, Michigan on St. Marys River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	580.25	Jul	578.83	Dec
Daily mean elevation:	580.41	24 Jul	578.23	20 Nov
Instant/hourly Elevation:	580.62	1400/4 Aug	577.68	2300/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
580.22	6 Jan
579.83	3 Feb
579.59	3 Mar
579.68	23 Apr
580.03	29 May
580.32	29 Jun
580.41	24 Jul
580.38	9 Aug
580.22	7 Sep
579.65	17 Oct
579.54	26 Nov
579.32	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.60	4 Jan
579.48	11 Feb
579.22	30 Mar
578.77	14 Apr
579.31	6 May
579.78	6 Jun
580.05	26 Jul
580.00	16 Aug
579.23	28 Sep
578.74	2 Oct
578.23	20 Nov
578.35	10 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
580.40							1						580.40	1
580.20	1					4	18	17	1				580.20	42
580.00	3				1	13	12	13	7				580.00	91
579.80	18	2			6	8		1	5				579.80	131
579.60	8	16		3	14	1			10	2			579.60	185
579.40	1	10	17	13	8				5	5	1		579.40	245
579.20			14	7	2				1	14	1	3	579.20	287
579.00				6						8	13	2	579.00	316
578.80											8	13	578.80	337
578.60				1						2	4	8	578.60	352
578.40											2	4	578.40	358
578.20											1	1	578.20	360

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 6050: Frechette Point, Michigan on St. Marys River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	579.96	579.83	579.58	579.20	579.39	579.97	580.15	580.33	580.18	579.44	579.14	579.27
2	579.96	579.68	579.51	579.28	579.60	579.95	580.18	580.30	580.07	578.74	579.04	578.97
3	579.89	579.83*	579.59	579.25	579.80	579.97	580.23	580.28	580.08	579.27	579.10	579.02
4	579.60	579.69	579.57	579.42	579.70	579.99*	580.20	580.37	580.08	579.40	579.14	578.79
5	580.11	579.79	579.47	579.03	579.51	580.04	580.13	580.32	580.05	579.27	579.06	578.87
6	580.22	579.76	579.47	579.23	579.31	579.78	580.16	580.36	580.13	579.01	578.52	579.23
7	579.90	579.77	579.47	579.32	579.54	580.00	580.19	580.35	580.22	578.76	579.16	579.01
8	580.05	579.71	579.51	579.17	579.69	580.04	580.24	580.30	579.80	579.21	578.96	578.50
9	580.04	579.73	579.51	579.24	579.57	579.97	580.11	580.38	580.06	579.19	578.96	578.44
10	579.96	579.68	579.48	579.53	579.46	579.98	580.29	580.28	579.91	579.19	579.29	578.35
11	579.90	579.48	579.46	579.36	579.43	580.01	580.35	580.20	579.98	579.22	578.86	578.66
12	579.95	579.69	579.56	579.42	579.63	580.03	580.33	580.32	579.85	579.29	579.03	578.77
13	579.95	579.74	579.38	579.46	579.55	580.04	580.21	580.31	579.93*	579.41	579.08	578.85
14	579.91	579.71	579.42	578.77	579.73	/	580.25	580.28	/	579.44	579.12	578.92
15	579.93	579.73	579.45	579.58	579.70	/	580.31	580.18	579.67*	579.20	579.04	578.70
16	579.80	579.74	579.34	579.62	579.73	/	580.31	580.00	579.67	579.30	578.98	578.67
17	579.90	579.73	579.40	579.56	579.61	/	580.36	580.10	579.56	579.65	578.80	578.67
18	579.94	579.72	579.56	579.06	579.58	580.30*	580.37	580.17	579.77	579.22	578.79	578.52
19	579.92	579.64	579.49	579.48	579.65	580.09	580.36	580.12	579.70	579.38	578.86	578.56
20	579.82	579.51	579.41	579.12	579.77	580.10	580.29	580.08	579.58	579.43	578.23	578.89
21	579.79	579.54	579.30	579.57	579.78	580.07	580.16	580.09	579.69	579.30	578.43	579.32
22	579.86	579.55	579.24	579.64	579.82	580.05	580.23	580.13	579.49	579.35	578.89	578.93
23	579.85	579.50	579.37	579.68	579.76	580.13*	580.32	580.15	579.59	579.11	578.94	578.75
24	579.81	579.57	579.35	579.18	579.77	580.23	580.41	580.11	579.69	579.56	578.80	578.99
25	579.80	579.53	579.33	579.37	579.89	579.98	580.31	580.09	579.73	579.62	579.02	578.98
26	579.81	579.52	579.31	579.49	579.99	580.07	580.05	580.12	579.82	579.18	579.54	578.85
27	579.77	579.52	579.22	579.46	579.92	580.17	580.17	580.08	579.62	579.06	578.66	578.77
28	579.76	579.52	579.28	579.45	579.91	580.27	580.20	580.21	579.23	579.18	578.91	578.83
29	579.66		579.23	579.41	580.03	580.32	580.20	580.22	579.61	579.25	579.07	578.82
30	579.66		579.22	579.56	579.68	580.17	580.35	580.23	579.54	579.36	579.01	578.81
31	579.73		579.30		579.90		580.34	580.22		579.22		578.96
MEAN	579.88	579.66	579.41	579.36	579.69	580.07	580.25	580.22	579.80	579.26	578.95	578.83
MAX.	580.29	579.89	579.73	579.94	580.14	580.45	580.54	580.62	580.34	580.13	579.73	579.61
	2400/05	1000/01	0500/18	1300/23	2200/29	2000/28	1700/24	1400/04	1100/01	2100/24	1400/26	1300/01
MIN.	579.35	579.38	579.03	577.91	579.09	579.53	579.89	579.89	578.74	578.10	577.68	578.15
	0300/04	1400/11	1700/22	1600/14	1800/06	1700/06	2000/26	1800/16	0400/28	2300/18	2300/20	0200/10

ANNUAL MEAN: 579.62

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 6060: US Slip below locks, Sault St Marie, Michigan on St Marys River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	580.79	Jul	578.98	Dec
Daily mean elevation:	580.96	24 Jul	578.35	20 Nov
Instant/hourly Elevation:	581.18	1200/19 Jul	577.91	2400/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
580.84	6 Jan
580.21	1 Feb
579.82	18 Mar
579.99	23 Apr
580.46	29 May
580.78	29 Jun
580.96	24 Jul
580.94	6 Aug
580.69	7 Sep
579.81	17 Oct
579.72	26 Nov
579.45	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
580.09	29 Jan
579.75	28 Feb
579.40	29 Mar
579.15	14 Apr
579.64	6 May
580.26	6 Jun
580.62	5 Jul
580.50	16 Aug
579.45	28 Sep
578.91	7 Oct
578.35	20 Nov
578.52	10 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
580.80	1						16	9					580.80	26
580.60	3					7	15	12	2				580.60	65
580.40	12				2	21		10	5				580.40	115
580.20	9	1			4	2			5				580.20	136
580.00	6	17			13				5				580.00	177
579.80		4	3	8	10				12	1			579.80	215
579.60		6	14	10	2					4	1		579.60	252
579.40			13	10					1	12		1	579.40	289
579.20			1	1						11	7	2	579.20	311
579.00				1						1	14	9	579.00	336
578.80										2	5	13	578.80	356
578.60											2	4	578.60	362
578.40												2	578.40	364
578.20											1		578.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 6060: US Slip below locks, Sault St Marie, Michigan on St Marys River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	580.52	580.21	579.82	579.48	579.68	580.41	580.62	580.92	580.67	579.68	579.24	579.38
2	580.50	580.09	579.75	579.52	579.90	580.40	580.68	580.91	580.56	578.94	579.14	579.12
3	580.40	580.18	579.81	579.51	580.10	580.42	580.71	580.88	580.58	579.50	579.20	579.19
4	580.12	580.11	579.80	579.67	580.02	580.42	580.66	580.93	580.56	579.61	579.25	578.94
5	580.70	580.17	579.72	579.35	579.87	580.44	580.62	580.86	580.52	579.45	579.13	578.98
6	580.84	580.18	579.70	579.45	579.64	580.26	580.66	580.94	580.57	579.21	578.63	579.37
7	580.52	580.18	579.69	579.57	579.86	580.45	580.68	580.90	580.69	578.91	579.31	579.18
8	580.66	580.15	579.74	579.41	580.06	580.48	580.72	580.81	580.28	579.34	579.11	578.67
9	580.65	580.15	579.73	579.51	579.99	580.41	580.64	580.92	580.38	579.36	579.04	578.60
10	580.56	580.13	579.69	579.83	579.86	580.41	580.84	580.80	580.22	579.35	579.38	578.52
11	580.50	579.98	579.66	579.67	579.82	580.46	580.88	580.70	580.27	579.38	578.94	578.80
12	580.52	580.10	579.76	579.70	579.99	580.49	580.88	580.78	580.12	579.48	579.13	578.93
13	580.52	580.14	579.57	579.76	579.95	580.47	580.77	580.79	580.22	579.59	579.18	579.00
14	580.48	580.12	579.60	579.15	580.10	580.44	580.81	580.75	580.00	579.59	579.29	579.09
15	580.49	580.14	579.64	579.86	580.06	580.55	580.86	580.70	579.97	579.36	579.25	578.84
16	580.38	580.16	579.56	579.92	580.12	580.64	580.87	580.50	579.97	579.43	579.15	578.84
17	580.42	580.16	579.65	579.89	579.98	580.60	580.90	580.56	579.85	579.81	578.93	578.83
18	580.46	580.14	579.82	579.41	579.94	580.76	580.94	580.61	580.04	579.44	578.92	578.68
19	580.42	580.04	579.74	579.78	580.05	580.55	580.93	580.60	580.01	579.51	579.03	578.70
20	580.30	579.89	579.66	579.44	580.15	580.55	580.88	580.59	579.90	579.60	578.35	579.03
21	580.26	579.85	579.48	579.87	580.14	580.53	580.74	580.58	579.98	579.42	578.62	579.45
22	580.32	579.81	579.41	579.94	580.17	580.53	580.79	580.61	579.81	579.49	579.10	579.08
23	580.30	579.75	579.58	579.99	580.12	580.57	580.88	580.60	579.90	579.23	579.08	578.90
24	580.25	579.80	579.56	579.50	580.14	580.69	580.96	580.60	579.98	579.68	578.90	579.15
25	580.23	579.76	579.53	579.61	580.28	580.45	580.86	580.55	580.03	579.71	579.12	579.14
26	580.25	579.76	579.54	579.79	580.44	580.53	580.65	580.59	580.11	579.25	579.72	579.00
27	580.20	579.76	579.44	579.77	580.38	580.61	580.79	580.55	579.89	579.15	578.88	578.93
28	580.18	579.75	579.43	579.77	580.37	580.70	580.81	580.64	579.45	579.31	579.08	578.97
29	580.09		579.40	579.72	580.46	580.78	580.75	580.67	579.91	579.36	579.26	578.96
30	580.10		579.48	579.84	580.17	580.64	580.91	580.69	579.81	579.50	579.15	578.95
31	580.12		579.57		580.33		580.92	580.68		579.34		579.11
MEAN	580.40	580.02	579.63	579.66	580.07	580.52	580.79	580.72	580.14	579.42	579.08	578.98
MAX.	580.93	580.27	580.00	580.26	580.77	580.97	581.18	581.17	580.95	580.27	580.02	579.76
	1600/06	0200/06	1000/05	1400/23	2200/29	1700/29	1200/19	1300/04	2200/07	2400/24	1200/26	1600/01
MIN.	579.73	579.62	579.11	578.32	579.44	579.98	580.34	580.35	578.93	578.40	577.91	578.33
	0300/04	2300/28	1800/22	1700/14	1800/01	1800/06	0600/01	1000/21	0500/28	2300/18	2400/20	0300/10

ANNUAL MEAN: 579.95

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 6070: SW Pier above locks, Sault St Marie, Michigan on St Marys River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	600.59	Jul	599.64	Feb
Daily mean elevation:	601.26	18 Oct	599.31	15 Feb
Instant/hourly Elevation:	602.83	1400/18 Oct	597.95	0300/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.07	4 Jan
599.95	28 Feb
600.02	2 Mar
600.66	14 Apr
600.53	5 May
600.83	25 Jun
600.76	9 Jul
600.76	15 Aug
600.89	27 Sep
601.26	18 Oct
600.80	27 Nov
600.36	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
599.41	25 Jan
599.31	15 Feb
599.45	31 Mar
599.62	22 Apr
599.85	3 May
600.07	1 Jun
600.33	24 Jul
600.26	31 Aug
600.02	30 Sep
599.81	30 Oct
599.72	26 Nov
599.64	26 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
601.20										1			601.20	1
601.00													601.00	1
600.80						1			1	1			600.80	4
600.60				1		4	11	4	2	3	3		600.60	32
600.40					5	10	18	19	12	4	7		600.40	107
600.20				6	15	11	2	8	10	11	10	6	600.20	186
600.00	2		1	8	9	4			5	9	8	14	600.00	246
599.80	8	5	10	11	2					2	1	7	599.80	292
599.60	18	11	17	4							1	4	599.60	347
599.40	3	11	3										599.40	364
599.20		1											599.20	365
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 6070: SW Pier above locks, Sault St Marie, Michigan on St Marys River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	599.94	599.69	599.92	599.92	600.23	600.07	600.63	600.42	600.53	600.14	600.35	599.90
2	599.87	599.81	600.02	599.64	599.97	600.08	600.58	600.54	600.47	600.50	600.41	600.30
3	599.96	599.71	599.71	599.85	599.85	600.32	600.54	600.59	600.39	600.27	600.29	600.10
4	600.07	599.75	599.85	600.01	600.14	600.39	600.65	600.67	600.50	600.10	600.24	600.20
5	599.68	599.61	599.85	600.32	600.53	600.25	600.69	600.57	600.47	600.23	600.52	600.17
6	599.94	599.71	599.89	599.90	600.44	600.50	600.60	600.46	600.35	600.90	600.70	599.79
7	599.92	599.56	599.85	599.83	600.26	600.25	600.57	600.54	600.35	600.80	600.29	600.23
8	599.71	599.80	599.80	599.98	600.12	600.28	600.61	600.60	600.74	600.40	600.72	600.25
9	600.01	599.61	599.80	599.91	600.42	600.39	600.76	600.53	600.35	600.18	600.38	600.33
10	599.79	599.71	599.86	599.84	600.33	600.41	600.65	600.65	600.49	600.18	600.42	600.36
11	599.82	599.92	599.78	600.05	600.40	600.32	600.54	600.60	600.31	600.28	600.44	600.17
12	599.62	599.55	599.91	599.81	600.42	600.30	600.59	600.60	600.45	600.13	600.15	599.95
13	599.69	599.46	599.89	599.74	600.37	600.15	600.69	600.47	600.50	599.97	600.09	600.09
14	599.66	599.42	599.78	600.66	600.35	600.19	600.69	600.43	600.58	600.10	600.04	600.13
15	599.69	599.31	599.86	599.93	600.36	600.37	600.60	600.76	600.55	600.55	600.04	600.15
16	599.78	599.41	599.79	599.95	600.42	600.50	600.60	600.73	600.44	600.22	600.14	600.10
17	599.69	599.45	599.79	600.12	600.32	600.34	600.52	600.58	600.40	600.02	600.43	600.08
18	599.79	599.46	599.71	600.24	600.33	600.42	600.56	600.56	600.34	601.26	600.51	600.17
19	599.70	599.59	599.78	600.14	600.36	600.50	600.58	600.53	600.55	600.45	600.26	600.07
20	599.63	599.69	599.79	600.14	600.21	600.47	600.67	600.45	600.49	600.63	600.37	599.85
21	599.68	599.57	599.73	599.77	600.18	600.52	600.75	600.40	600.34	600.40	600.34	599.83
22	599.84	599.48	599.69	599.62	600.12	600.64	600.57	600.37	600.29	600.37	600.26	599.92
23	599.73	599.66	599.73	599.90	600.04	600.55	600.45	600.48	600.18	600.73	600.13	600.02
24	599.57	599.85	599.70	600.39	600.10	600.46	600.33	600.44	600.14	600.21	600.09	600.23
25	599.41	599.85	599.57	600.26	600.21	600.83	600.57	600.39	600.07	600.37	599.93	600.05
26	599.85	599.74	599.61	600.11	600.29	600.64	600.69	600.35	600.02	600.21	599.72	599.64
27	599.73	599.53	599.66	600.12	600.25	600.42	600.60	600.44	600.89	600.41	600.80	599.71
28	599.72	599.95	599.49	600.14	600.18	600.38	600.56	600.28	600.77	600.25	600.57	600.20
29	599.80		599.74	600.22	600.08	600.64	600.53	600.28	600.30	600.01	600.22	599.92
30	599.69		599.84	600.24	600.39	600.73	600.42	600.39	600.02	599.81	600.11	599.89
31	599.48		599.45		600.18		600.35	600.26		600.17		599.73
MEAN	599.76	599.64	599.77	600.02	600.25	600.41	600.59	600.50	600.41	600.33	600.30	600.05
MAX.	600.69	600.38	600.37	601.83	602.48	602.48	601.18	601.17	602.39	602.83	601.76	600.75
	2000/01	2000/01	2100/01	1300/14	0400/19	0400/20	0900/02	0900/04	2100/27	1400/18	1300/08	2300/24
MIN.	598.97	598.86	598.46	597.95	598.74	598.70	599.80	599.81	599.35	598.99	599.14	598.86
	0900/25	0300/15	2300/31	0300/01	2300/29	1600/14	1600/23	1600/31	0100/24	0400/01	1100/26	0500/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 600.17

ANNUAL SUMMARY OF LEVELS, 1981
Station 7023: Ludington, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.61	Aug	578.81	Feb
Daily mean elevation:	579.98	1 Oct	578.46	24 Dec
Instant/hourly Elevation:	580.55	1000/1 Oct	578.27	1400/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.12	1 Jan
579.08	28 Feb
579.01	26 Mar
579.57	23 Apr
579.53	17 May
579.70	24 Jun
579.73	2 Jul
579.80	29 Aug
579.73	1 Sep
579.98	1 Oct
579.28	20 Nov
579.25	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.69	31 Jan
578.67	4 Feb
578.67	17 Mar
578.78	2 Apr
579.23	6 May
579.38	4 Jun
579.41	27 Jul
579.43	23 Aug
578.91	28 Sep
579.01	7 Oct
578.68	28 Nov
578.46	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.80										1			579.80	1
579.60						11	15	14	4				579.60	45
579.40				1	13	16	16	17	18	7			579.40	133
579.20				11	18	3			7	20	6	1	579.20	199
579.00	2	2	1	13						3	10	4	579.00	234
578.80	20	10	19	4					1		13	11	578.80	312
578.60	9	16	11	1							1	11	578.60	361
578.40												4	578.40	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7023: Ludington, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	579.12	578.99	578.79	579.13	579.37	579.48	579.73	579.52	579.73	579.98	579.22	579.25
2	578.84	578.72	578.73	578.78	579.26	579.52	579.73	579.52	579.53	579.46	579.21	579.13
3	578.89	578.68	578.75	578.98	579.39	579.54	579.69	579.56	579.58	579.27	579.23	579.00
4	578.82	578.67	578.92	579.08	579.43	579.38	579.70	579.59	579.56	579.37	579.18	579.10
5	578.74	578.70	578.94	578.84	579.25	579.46	579.67	579.58	579.56	579.38	579.27	578.98
6	578.84	578.73	578.86	578.82	579.23	579.40	579.64	579.63	579.53	579.38	578.96	579.04
7	578.69	578.87	578.82	579.00	579.25	579.44	579.62	579.76	579.56	579.01	578.99	579.04
8	578.81	578.80	578.88	579.10	579.35	579.59	579.62	579.76	579.50	579.25	579.07	578.84
9	578.82	578.69	578.92	579.02	579.36	579.40	579.55	579.58	579.43	579.40	579.00	578.80
10	578.72	578.83	578.89	579.05	579.38	579.56	579.50	579.65	579.50	579.44	579.03	578.74
11	578.85	578.79	578.80	579.20	579.50	579.44	579.56	579.62	579.66	579.35	578.92	578.77
12	578.87	578.69	578.88	579.29	579.32	579.53	579.66	579.60	579.62	579.34	579.12	578.94
13	578.90	578.87	578.76	579.28	579.39	579.59	579.66	579.73	579.57	579.38	579.01	578.78
14	578.93	578.77	578.75	579.10	579.44	579.69	579.52	579.78	579.60	579.38	579.07	578.89
15	579.00	578.78	578.73	579.04	579.46	579.63	579.60	579.63	579.52	579.33	579.13	578.82
16	579.03	578.73	578.82	579.10	579.33	579.64	579.57	579.63	579.56	579.26	579.11	578.75
17	578.88	578.80	578.67	579.19	579.53	579.52	579.57	579.58	579.55	579.41	579.04	578.85
18	578.79	578.81	578.79	579.05	579.41	579.65	579.65	579.51	579.43	579.54	578.82	578.83
19	578.81	578.83	578.81	579.23	579.38	579.56	579.68	579.55	579.34	579.03	578.97	578.81
20	578.91	578.75	578.77	579.25	579.35	579.64	579.66	579.52	579.34	579.25	579.28	578.69
21	578.91	578.74	578.81	579.15	579.36	579.70	579.62	579.51	579.40	579.26	578.99	578.67
22	578.78	578.86	578.86	579.39	579.35	579.63	579.60	579.52	579.46	579.44	578.96	578.72
23	578.78	579.02	578.91	579.57	579.46	579.58	579.57	579.43	579.39	579.24	578.96	578.78
24	578.85	578.94	578.83	579.29	579.45	579.70	579.61	579.49	579.26	579.19	578.99	578.46
25	578.92	578.72	578.80	579.12	579.47	579.58	579.49	579.55	579.47	579.27	578.95	578.47
26	578.89	578.84	579.01	579.26	579.47	579.50	579.56	579.55	579.65	579.29	579.21	578.69
27	578.72	578.86	578.86	579.39	579.48	579.59	579.41	579.65	579.36	579.32	579.06	578.96
28	578.89	579.08	578.83	579.34	579.44	579.69	579.60	579.78	578.91	579.23	578.68	578.57
29	578.82		578.98	579.37	579.47	579.65	579.47	579.80	579.31	579.39	578.88	578.59
30	578.73		579.00	579.30	579.40	579.62	579.44	579.69	579.46	579.45	578.97	578.66
31	578.69		578.95		579.33		579.54	579.70		579.43		578.83
MEAN	578.85	578.81	578.84	579.16	579.39	579.56	579.60	579.61	579.48	579.35	579.04	578.82
MAX.	579.32	579.43	579.27	579.84	579.72	580.10	580.03	580.02	580.06	580.55	579.56	579.65
	1200/01	0900/28	1900/31	0700/23	0700/25	2300/24	1900/12	2400/28	1300/26	1000/01	1700/26	1700/01
MIN.	578.44	578.47	578.39	578.48	578.99	579.17	579.22	579.29	578.73	578.86	578.50	578.27
	0400/10	0800/12	0400/17	2100/08	2200/05	1400/09	1200/27	1800/23	1000/28	0800/19	0600/28	1400/24

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.21

ANNUAL SUMMARY OF LEVELS, 1981
Station 7031: Holland, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.54	Aug	578.68	Feb
Daily mean elevation:	579.90	1 Oct	578.28	24 Dec
Instant/hourly Elevation:	580.17	1900/1 Oct	577.96	0200/21 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.08	1 Jan
579.04	11 Feb
578.94	5 Mar
579.45	23 Apr
579.66	11 May
579.61	30 Jun
579.66	2 Jul
579.74	8 Aug
579.65	1 Sep
579.90	1 Oct
579.41	20 Nov
579.02	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.50	31 Jan
578.42	5 Feb
578.57	14 Mar
578.61	2 Apr
579.16	2 May
579.27	9 Jun
579.36	30 Jul
579.36	23 Aug
578.84	28 Sep
578.94	24 Oct
578.58	28 Nov
578.28	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.80										1			579.80	1
579.60					1	1	6	7	3				579.60	19
579.40				1	3	19	24	22	15	2	1		579.40	106
579.20				5	24	10	1	2	11	14			579.20	173
579.00	3	1		10	3					12	8	2	579.00	212
578.80	7	4	7	9					1	2	16	9	578.80	267
578.60	20	12	23	5							4	10	578.60	341
578.40	1	11	1								1	7	578.40	362
578.20												3	578.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7031: Holland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	579.08	578.75	578.66	578.87	579.34	579.36	579.66	579.40	579.65	579.90	579.14	579.00
2	578.80	578.81	578.72	578.61	579.16	579.42	579.66	579.44	579.55	579.44	579.10	579.02
3	579.01	578.64	578.64	578.75	579.18	579.39	579.61	579.48	579.56	579.16	579.10	578.88
4	578.86	578.74	578.93	578.88	579.26	579.30	579.58	579.49	579.58	579.28	579.06	579.02
5	578.65*	578.42	578.94	578.72	579.34	579.30	579.58	579.48	579.59	579.32	579.17	578.85
6	578.99*	578.64	578.84	578.65	579.28	579.28	579.53	579.53	579.53	579.40	578.93	578.74
7	578.76	578.58	578.78	578.72	579.19	579.32	579.47	579.65	579.50	579.01	578.85	578.95
8	578.70	578.72	578.78	579.02	579.26	579.40	579.44	579.74	579.51	579.19	579.03	578.85
9	578.86	578.52	578.78	578.84	579.36	579.27	579.50	579.52	579.37	579.37	578.91	578.90
10	578.73	578.89	578.80	578.85	579.55	579.35	579.43	579.63	579.53	579.38	578.82	578.80
11	578.92	579.04	578.75	579.10	579.66	579.31	579.47	579.56	579.62	579.28	578.93	578.74
12	578.76	578.56*	578.72	579.19	579.32	579.42	579.57	579.46	579.52	579.29	578.94	578.77
13	578.91	578.53*	578.75	579.16	579.31	579.50	579.58	579.60	579.44	579.27	578.86	578.70
14	578.80	578.57	578.57	579.13	579.31	579.50	579.52	579.60	579.55	579.21	578.97	578.72
15	578.88	578.46	578.71	578.86	579.30	579.45	579.54	579.67	579.43	579.27	578.98	578.74
16	579.06	578.52	578.74	578.87	579.31	579.45	579.50	579.65	579.57	579.13	578.98	578.72
17	578.76	578.50	578.75	578.99	579.49	579.41	579.42	579.52	579.61	579.14	578.95	578.86
18	578.73	578.55	578.77	579.00	579.37	579.48	579.52	579.47	579.34	579.55	578.75	578.92
19	578.67	578.71	578.84	579.07	579.30	579.51	579.57	579.51	579.34	578.95	579.02	578.80
20	578.82	578.77	578.69	579.22	579.21	579.56	579.59	579.48	579.38	579.18	579.41	578.44
21	578.71	578.60	578.72	579.07	579.21	579.58	579.64	579.47	579.35	579.25	579.00	578.31
22	578.65	578.76	578.81	579.25	579.21	579.49	579.55	579.47	579.45	579.23	578.90	578.60
23	578.65	578.91	578.73	579.45	579.31	579.43	579.52	579.36	579.28	579.19	578.90	578.55
24	578.69	578.78	578.77	579.27	579.36	579.54	579.54	579.47	579.24	578.94	578.91	578.28
25	578.69	578.65	578.71	578.99	579.30	579.48	579.47	579.52	579.33	579.10	578.71	578.40
26	578.73	578.72	578.85	579.18	579.33	579.44	579.64	579.52	579.40	579.19	579.10	578.58
27	578.66	578.71	578.79	579.17	579.43	579.47	579.45	579.59	579.26	579.16	579.00	578.81
28	578.78	578.91	578.65*	579.34	579.32	579.43	579.65	579.68	578.84	579.11	578.58	578.51
29	578.80		578.65	579.21	579.30	579.45	579.43	579.69	579.21	579.20	578.73	578.48
30	578.61		578.81	579.18	579.36	579.61	579.36	579.58	579.43	579.22	578.73	578.46
31	578.50		578.75		579.23		579.43	579.58		579.26		578.62
MEAN	578.78	578.68	578.75	579.02	579.32	579.43	579.53	579.54	579.43	579.24	578.95	578.71
MAX.	579.26	579.55	579.28	579.68	579.83	579.74	579.81	579.88	579.81	580.17	579.60	579.26
	1000/16	0100/11	2300/15	2200/28	0200/11	1400/30	0800/26	0500/08	1900/01	1900/01	2400/26	0500/02
MIN.	578.38	578.28	578.41	578.47	578.98	579.12	579.27	579.28	578.63	578.77	578.47	577.96
	2300/31	1900/05	0300/15	1800/02	2000/02	1700/09	0900/30	1800/23	0900/28	2100/19	0700/28	0200/21

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.12

ANNUAL SUMMARY OF LEVELS, 1981

Station 7044: Calumet Harbor, Illinois on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.68	Jul	578.65	Feb
Daily mean elevation:	580.38	10 May	578.01	21 Dec
Instant/hourly Elevation:	580.87	2300/1 Oct	577.30	0100/21 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.31	3 Jan
579.16	10 Feb
579.19	5 Mar
579.66	20 Apr
580.38	10 May
579.82	30 Jun
580.00	21 Jul
579.96	16 Aug
580.19	17 Sep
579.91	1 Oct
579.88	20 Nov
579.24	8 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.34	5 Jan
578.12	5 Feb
578.60	14 Mar
578.56	4 Apr
579.12	3 May
579.28	9 Jun
579.46	8 Jul
579.38	14 Aug
579.00	27 Sep
578.87	24 Oct
578.64	28 Nov
578.01	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
580.20					1								580.20	1
580.00					1				1				580.00	3
579.80						1	6	2	7	2	1		579.80	22
579.60				1	5	6	14	12	7	1	1		579.60	69
579.40				1	10	11	11	16	8	6			579.40	132
579.20	2			12	13	12		1	5	16	5	1	579.20	199
579.00	4	2	7	3	1				1	4	15	5	579.00	241
578.80	9	6	17	6					1	2	5	9	578.80	296
578.60	13	6	6	6							3	5	578.60	335
578.40	2	9	1	1								6	578.40	354
578.20	1	4										2	578.20	361
578.00		1										3	578.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7044: Calumet Harbor, Illinois on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	579.17	578.57	578.70	578.70	579.52	579.48	579.92	579.50	579.66	579.91	579.25	578.85
2	578.97	578.70	578.91	578.62	579.31	579.54	579.87	579.52	579.79	579.83	579.29	578.87
3	579.31	578.53	578.71	578.64	579.12	579.39	579.74	579.53	579.85	579.37	579.24	578.91
4	579.05	578.73	579.08	578.56	579.21	579.39	579.71	579.53	579.90	579.29	579.22	579.17
5	578.34	578.12	579.19	578.73	579.65	579.36	579.73	579.55	579.95	579.40	579.19	578.93
6	578.73	578.53	579.05	578.76	579.76	579.30	579.66	579.59	579.83	579.49	579.22	578.48
7	578.96	578.32	579.10	578.67	579.38	579.40	579.59	579.66	579.69	579.40	578.98	578.91
8	578.78	578.56	578.98	578.91	579.36	579.40	579.46	579.82	579.76	579.40*	579.14	579.24
9	578.85	578.49	578.85	578.96	579.51	579.28	579.58	579.57	579.40	579.52	579.18	579.20
10	578.88	579.16	578.88	578.92	580.38	579.33	579.57	579.61	579.39	579.53	578.75	579.11
11	579.12	579.08	578.86	579.07	580.12	579.31	579.59	579.52	579.53	579.52	579.08	578.92
12	578.68	578.30	578.69	579.39	579.39	579.45	579.52	579.41	579.56	579.49	579.07	578.84
13	578.98	578.43	578.89	579.29	579.36	579.58	579.62	579.53	579.50	579.38	578.93	578.73
14	578.93	578.53	578.60	579.28	579.62	579.45	579.69	579.38	579.79	579.13	579.04	578.79
15	578.98	578.40	578.84	579.00	579.48	579.35	579.66	579.72	579.65	579.29	579.05	578.83
16	579.25	578.45	578.98	578.87	579.47	579.46	579.59	579.96	579.96	579.23	579.05	578.77
17	578.67	578.38	579.08	578.99	579.73	579.43	579.52	579.78	580.19	579.08	579.09	579.16
18	578.72	578.51	579.01	579.14	579.68	579.40	579.54	579.73	579.62	579.21	579.01	579.08
19	578.67	578.75	579.09	579.26	579.56	579.52	579.63	579.78	579.42	578.88	579.61	578.86
20	578.98	578.90	578.86	579.66	579.35	579.63	579.66	579.78	579.55	579.02	579.88	578.20
21	578.78	578.74	578.93	579.29	579.26	579.71	580.00	579.70	579.82	579.61	579.15	578.01
22	578.66	578.91	579.00	579.38	579.31	579.56	579.79	579.61	579.84	579.38	578.91	578.63
23	578.65	578.88	578.88	579.32	579.38	579.63	579.63	579.44	579.41	579.27	579.04	578.45
24	578.76	578.79	578.90	579.42	579.42	579.64	579.63	579.57	579.37	578.87	579.19	578.05
25	578.70	578.84	578.85	579.18	579.28	579.59	579.67	579.57	579.41	579.08	578.87	578.36
26	578.53	578.96	578.87	579.29	579.38	579.61	579.89	579.52	579.37	579.42	579.04	578.60
27	578.68	578.80	578.90	579.27	579.57	579.66	579.83	579.61	579.00	579.32	579.02	578.73
28	578.84	578.88	578.67	579.36	579.46	579.34	579.99	579.71	579.07	579.33	578.64	578.55
29	579.06		578.64	579.33	579.37	579.43	579.66	579.66	579.28	579.35	578.80	578.42
30	578.78		578.77	579.36	579.51	579.82	579.50	579.56	579.58	579.32	578.96	578.35
31	578.50		578.82		579.46		579.51	579.60		579.36		578.45
MEAN	578.84	578.65	578.89	579.09	579.50	579.48	579.68	579.61	579.60	579.34	579.10	578.72
MAX.	579.79	580.03	580.07	580.47	580.66	580.24	580.30	580.17	580.55	580.87	580.59	579.82
	2300/06	2300/10	2000/15	0500/14	2300/10	0100/22	0900/28	1100/16	1100/17	2300/01	0300/20	2200/07
MIN.	577.89	577.74	578.13	577.81	578.86	578.85	578.88	579.01	578.36	578.11	578.26	577.30
	2200/05	1800/05	1500/29	0900/04	0400/03	1300/09	2000/12	2400/03	0600/27	2000/19	1100/10	0100/21

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.21

ANNUAL SUMMARY OF LEVELS, 1981

Station 7057: Milwaukee, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.65	Jul	578.73	Feb
Daily mean elevation:	579.94	17 Sep	578.19	24 Dec
Instant/hourly Elevation:	580.18	1600/1 Oct	578.03	2200/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.04	1 Jan
579.11	22 Feb
579.02	4 Mar
579.48	23 Apr
579.92	10 May
579.66	24 Jun
579.85	28 Jul
579.80	28 Aug
579.94	17 Sep
579.78	1 Oct
579.47	20 Nov
579.18	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.61	5 Jan
578.44	5 Feb
578.65	14 Mar
578.74	5 Apr
579.27	2 May
579.24	6 Jun
579.49	10 Jul
579.47	12 Aug
578.95	28 Sep
578.94	19 Oct
578.60	28 Nov
578.19	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.80					1		1		3				579.80	5
579.60					1	6	18	18	13	1			579.60	62
579.40				4	16	19	12	13	11	11	2		579.40	150
579.20				9	13	5			1	12	5		579.20	195
579.00	2	2	2	9					1	6	12	2	579.00	231
578.80	11	5	24	5					1	1	10	12	578.80	300
578.60	18	13	5	3								9	578.60	348
578.40		8									1	6	578.40	363
578.20												1	578.20	364
578.00												1	578.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7057: Milwaukee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	579.04	578.77	578.72	578.86	579.46	579.51	579.76	579.52	579.74	579.78	579.23	579.18
2	578.85	578.64	578.77	578.75	579.27	579.52	579.79	579.50	579.71	579.55	579.21	578.90
3	578.96	578.52	578.74	578.94	579.33	579.47	579.74	579.53	579.77	579.33	579.25	578.95
4	578.85	578.64	579.02	578.83	579.38	579.35	579.68	579.58	579.77	579.44	579.22	579.04
5	578.61	578.44	579.01	578.74	579.39	579.36	579.67	579.55	579.82	579.45	579.23	578.88
6	578.76	578.58	578.94	578.78	579.40	579.24	579.62	579.62	579.76	579.30	579.00	578.88
7	578.75	578.53	578.86	578.92	579.29	579.39	579.60	579.69	579.70	579.13	579.00	578.95
8	578.75	578.59	578.89	579.07	579.37	579.46	579.56	579.75	579.61	579.34	579.13	578.94
9	578.77	578.57	578.88	578.92	579.52	579.34	579.52	579.57	579.47	579.54	579.05	578.91
10	578.74	579.02	578.87	579.02	579.92	579.44	579.49	579.62	579.52	579.54	578.87	578.85
11	578.88	578.84	578.81	579.17	579.73	579.43	579.58	579.57	579.62	579.43	579.04	578.84
12	578.81	578.55	578.77	579.34	579.35	579.49	579.63	579.47	579.52	579.48	579.08	578.92
13	579.00	578.71	578.81	579.29	579.41	579.63	579.57	579.59	579.49	579.47	578.98	578.79
14	578.93	578.71	578.65	579.17	579.44	579.63	579.60	579.60	579.62	579.36	579.09	578.76
15	578.90	578.62	578.81	579.01	579.42	579.50	579.67	579.60	579.61	579.30	579.10	578.75
16	579.03	578.62	578.86	579.03	579.41	579.51	579.60	579.80	579.82	579.24	579.09	578.71
17	578.72	578.60	578.91	579.12	579.60	579.44	579.57	579.74	579.94	579.34	579.00	578.94
18	578.77	578.66	578.89	579.08	579.52	579.50	579.65	579.69	579.59	579.20	578.95	578.86
19	578.77	578.78	578.90	579.23	579.44	579.47	579.68	579.73	579.48	578.94	579.41	578.78
20	578.94	578.79	578.82	579.44	579.37	579.63	579.64	579.68	579.54	579.18	579.47	578.47
21	578.77	578.76	578.88	579.27	579.34	579.56	579.76	579.63	579.69	579.39	579.03	578.40
22	578.66	579.11	578.94	579.44	579.40	579.53	579.73	579.64	579.66	579.30	578.93	578.66
23	578.74	579.00	578.86	579.48	579.46	579.53	579.71	579.49	579.48	579.14	579.13	578.47
24	578.79	578.80	578.85	579.32	579.48	579.66	579.71	579.57	579.44	579.03	579.08	578.19
25	578.84	578.76	578.87	579.14	579.41	579.54	579.66	579.61	579.53	579.17	578.97	578.42
26	578.66	578.93	578.95	579.29	579.40	579.49	579.74	579.61	579.53	579.33	579.20	578.78
27	578.69	579.00	578.89	579.32	579.51	579.62	579.68	579.70	579.04	579.26	578.87	578.76
28	578.79	578.91	578.81	579.45	579.43	579.58	579.85	579.80	578.95	579.28	578.60	578.48
29	578.86		578.86	579.30	579.44	579.53	579.59	579.77	579.37	579.44	578.82	578.47
30	578.75		578.90	579.33	579.44	579.65	579.54	579.70	579.68	579.44	579.04	578.59
31	578.70		578.93		579.39		579.58	579.72		579.41		578.76
MEAN	578.81	578.73	578.86	579.14	579.44	579.50	579.65	579.63	579.58	579.34	579.07	578.75
MAX.	579.23	579.56	579.60	580.15	580.15	580.02	580.08	580.05	580.15	580.18	579.86	579.40
	0900/16	1600/22	1700/29	1100/28	2100/10	0300/22	0600/28	1400/16	1500/17	1600/01	2200/19	0100/01
MIN.	578.41	578.26	578.48	578.40	579.04	579.07	579.24	579.26	578.66	578.63	578.42	578.03
	2300/21	1800/05	2400/14	1000/09	1600/02	2100/08	0600/13	2100/03	0600/28	2100/19	0800/28	2200/24

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.21

ANNUAL SUMMARY OF LEVELS, 1981
Station 7068: Kewaunee, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.56	Aug	578.68	Feb
Daily mean elevation:	579.81	28 Aug	578.20	24 Dec
Instant/hourly Elevation:	580.11	0600/30 Sep	578.09	0100/25 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.88	25 Jan
578.98	22 Feb
578.91	26 Mar
579.54	23 Apr
579.43	23 May
579.65	28 Jun
579.68	3 Jul
579.81	28 Aug
579.67	17 Sep
579.66	1 Oct
579.17	3 Nov
579.21	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.57	22 Jan
578.50	3 Feb
578.61	15 Mar
578.67	5 Apr
579.19	5 May
579.31	6 Jun
579.41	30 Jul
579.40	1 Aug
578.80	28 Sep
579.00	7 Oct
578.55	28 Nov
578.20	24 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.80								1					579.80	1
579.60						2	9	10	3	1			579.60	26
579.40				1	4	18	22	19	15	3			579.40	108
579.20				5	23	9		1	6	16		1	579.20	169
579.00				10	3					10	12		579.00	204
578.80	6	4	10	11					1	1	15	7	578.80	259
578.60	14	16	21	3					1		2	15	578.60	331
578.40	3	8									1	6	578.40	349
578.20												1	578.20	350
578.00												1	578.00	351
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7068: Kewaunee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	578.69	578.67	578.91	579.28	/	579.62	579.40	579.65	579.66	579.08	579.21
2	/	578.52	578.63	578.76	579.22	579.38*	579.67	579.45	579.52	579.39	579.13	578.91
3	/	578.50	578.75	579.01	579.37	579.41	579.68	579.45	579.60*	579.28	579.17	578.88
4	/	578.53	578.83	578.98	579.35	579.31	579.63	579.51	/	579.35	579.10	578.94
5	/	578.54	578.86	578.67	579.19	579.38	579.59	579.42	/	579.28	579.15	578.84
6	/	578.54	578.79	578.80	579.20	579.31	579.56	579.64	/	579.23	578.87	578.96
7	/	578.68	578.74	578.90	579.20	579.36	579.57	579.63	/	579.00	578.98	578.83
8	/	578.54	578.83	578.93	579.29	579.43	579.54	579.65	579.41*	579.24	579.01	578.72
9	578.58*	578.51	578.82	578.92	579.26	579.32	579.43	579.62	579.49	579.41	578.94	578.74
10	578.62	578.71	578.80	578.99	579.27	579.38	579.44	579.59	579.43	579.40	578.92	578.68
11	578.67	578.70	578.76	578.97	579.38	579.35	579.52	579.53	579.57	579.29	578.85	578.75
12	578.76	578.57	578.78	579.17	579.23	579.41	579.60	579.46	579.43	579.38	579.04	578.85
13	578.86	578.72	578.66	579.18	579.27	579.56	579.57	579.52	579.42	579.38	578.94	578.69
14	578.84	578.67	578.70	578.99	579.29	579.56	579.49	579.60	579.42	579.38	579.02	578.70
15	578.85	578.68	578.61	578.96	579.35	579.44	579.62	579.48	579.44	579.20	579.07	578.67
16	578.85	578.65	578.81	578.98	579.30	579.44	579.55	579.64	579.58	579.19	579.03	578.65
17	578.76	578.68*	578.66	579.06	579.42	579.49	579.50	579.61	579.67	579.42	578.89	578.72
18	578.66	578.71	578.73	578.96	579.35	579.50	579.58	579.50	579.49	579.20	578.80	578.68
19	578.71	578.68	578.72	579.09	579.29	579.40	579.56	579.55	579.31	579.02	578.96	578.67
20	578.82	578.68	578.72	579.14	579.30	579.58	579.58	579.56	579.39	579.18	579.14	578.62
21	578.76	578.68	578.75	579.21	579.29	579.50	579.61	579.53	579.47	579.25	578.94	578.44
22	578.57	578.98	578.83	579.35	579.30	579.51	579.66	579.55	579.50	579.30	578.85	578.56
23	578.67	578.91	578.78	579.54	579.43	579.53	579.62	579.41	579.39	579.04	578.95	578.54
24	578.73	578.78	578.73	579.20	579.41	579.63	579.60	579.46	579.34	579.10	578.97	578.20
25	578.88	578.63	578.77	579.07	579.38	579.47	579.52	579.57	579.46	579.05	578.97	578.35
26	578.66	578.78	578.91	579.21	579.32	579.45	579.58	579.54	579.39	579.24	579.11	578.79
27	578.60	578.95	578.79	579.26	579.36	579.59	579.50	579.63	578.98	579.15	578.85	578.80
28	578.71	578.92	578.82	579.26	579.31	579.65	579.65	579.81	578.80	579.17	578.55	578.45
29	578.68		578.79	579.18	579.41	579.53	579.51	579.78	579.28	579.40	578.80	578.45
30	578.66		578.87	579.18	579.28	579.50	579.41	579.61	579.62	579.43	578.97	578.60
31	578.72		578.90		/		579.42	579.66		579.30		578.73
MEAN	578.72	578.68	578.77	579.06	579.31	579.46	579.56	579.56	579.42	579.27	578.97	578.70
MAX.	579.17	579.62	579.54	579.77	579.68	580.02	580.04	580.02	580.11	580.02	579.48	579.53
	0700/21	1400/22	2400/31	2400/22	1700/24	1800/27	2100/28	1000/29	0600/30	0200/01	0100/27	1400/01
MIN.	578.32	578.25	578.38	578.24	578.98	578.96	579.15	579.11	578.50	578.54	578.42	578.09
	1100/23	0800/09	2000/15	1400/08	2100/09	2000/09	0700/28	2400/03	0500/28	2100/05	1200/28	0100/25

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.12

ANNUAL SUMMARY OF LEVELS, 1981

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.55	Aug	578.66	Feb
Daily mean elevation:	579.78	1 Oct	578.14	24 Dec
Instant/hourly Elevation:	580.09	0400/1 Oct	578.00	0900/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.95	1 Jan
578.92	23 Feb
578.89	26 Mar
579.53	23 Apr
579.39	29 May
579.60	24 Jun
579.68	2 Jul
579.77	29 Aug
579.62	30 Sep
579.78	1 Oct
579.19	26 Nov
579.15	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.54	7 Jan
578.47	2 Feb
578.56	15 Mar
578.68	5 Apr
579.14	7 May
579.25	9 Jun
579.38	30 Jul
579.40	1 Aug
578.79	28 Sep
578.94	7 Oct
578.53	28 Nov
578.14	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.60							4	8	3	1			579.60	16
579.40				1		15	26	22	13	1			579.40	94
579.20				3	26	15	1	1	11	16			579.20	167
579.00				12	5				1	9	9	1	579.00	204
578.80	5	4	6	11					1	4	16	5	578.80	256
578.60	21	15	22	3					1		4	16	578.60	338
578.40	5	9	3								1	6	578.40	362
578.20												2	578.20	364
578.00												1	578.00	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.95	578.71	578.68	578.95	579.27	579.36	579.60	579.40	579.60	579.78	579.08	579.15
2	578.68	578.47	578.59	578.72	579.15	579.40	579.68	579.43	579.49	579.41	579.08	578.92
3	578.67	578.48	578.72	578.87	579.30	579.40	579.65	579.45	579.56	579.23	579.16	578.88
4	578.63	578.49	578.80	579.00	579.35	579.29	579.61	579.45	579.51	579.35	579.08	578.94
5	578.67	578.55	578.83	578.68	579.17	579.38	579.56	579.43	579.62	579.31	579.14	578.82
6	578.61	578.52	578.75	578.73	579.16	579.26	579.56	579.57	579.59	579.15	578.80	578.91
7	578.54	578.69	578.72	578.87	579.14	579.34	579.54	579.66	579.55	578.94	578.94	578.77
8	578.69	578.53	578.79	578.89	579.22	579.40	579.53	579.68	579.40	579.22	578.93	578.72
9	578.60	578.50	578.80	578.91	579.19	579.25	579.42	579.60	579.45	579.35	578.90	578.71
10	578.57	578.61	578.77	578.94	579.22	579.36	579.46	579.60	579.40	579.37	578.81	578.66
11	578.66	578.65	578.74	578.88	579.37	579.31	579.49	579.52	579.54	579.27	578.85	578.72
12	578.75	578.57	578.76	579.16	579.23	579.32	579.51	579.45	579.39	579.32	578.97	578.79
13	578.82	578.72	578.62	579.18	579.26	579.46	579.45	579.54	579.38	579.36	578.90	578.65
14	578.82	578.68	578.69	579.03	579.27	579.51	579.50	579.58	579.42	579.30	579.00	578.67
15	578.86	578.75	578.56	578.90	579.33	579.47	579.61	579.52	579.40	579.19	579.02	578.67
16	578.80	578.66	578.75	578.93	579.28	579.40	579.54	579.62	579.54	579.13	579.03	578.65
17	578.74	578.68	578.57	579.05	579.37	579.39	579.53	579.59	579.62	579.34	578.91	578.70
18	578.67	578.70	578.68	578.94	579.30	579.46	579.52	579.50	579.42	579.15	578.78	578.65
19	578.72	578.70	578.68	579.05	579.24	579.38	579.57	579.50	579.28	578.97	578.90	578.65
20	578.79	578.65	578.67	579.12	579.26	579.50	579.56	579.50	579.34	579.11	579.09	578.57
21	578.76	578.64	578.72	579.13	579.27	579.53	579.57	579.50	579.37	579.23	578.92	578.39
22	578.60	578.86	578.81	579.27	579.29	579.45	579.60	579.52	579.46	579.28	578.79	578.55
23	578.71	578.92	578.76	579.53	579.35	579.46	579.58	579.41	579.35	579.05	578.91	578.49
24	578.74	578.75	578.73	579.19	579.38	579.60	579.54	579.46	579.31	578.97	578.95	578.14
25	578.91	578.59	578.76	579.04	579.34	579.42	579.55	579.51	579.42	579.00	578.90	578.31
26	578.66	578.76	578.89	579.11	579.27	579.44	579.53	579.53	579.39	579.11	579.19	578.73
27	578.59	578.91	578.78	579.13	579.33	579.52	579.48	579.61	578.91	579.15	578.86	578.80
28	578.71	578.88	578.81	579.24	579.30	579.50	579.59	579.76	578.79	579.17	578.53	578.41
29	578.66		578.72	579.23	579.39	579.45	579.47	579.77	579.19	579.31	578.78	578.47
30	578.62		578.87	579.19	579.26	579.44	579.38	579.61	579.62	579.38	578.82	578.55
31	578.66		578.85		579.23		579.43	579.64		579.35		578.72
MEAN	578.71	578.66	578.74	579.03	579.27	579.42	579.54	579.55	579.41	579.23	578.93	578.67
MAX.	579.22	579.24	579.16	579.74	579.57	579.92	579.75	579.93	579.93	580.09	579.52	579.36
	0300/01	2200/22	1900/31	1000/23	1500/09	1400/15	0800/03	0800/29	2100/30	0400/01	1800/26	1400/01
MIN.	578.34	578.30	578.27	578.46	578.95	578.95	579.16	579.24	578.56	578.66	578.41	578.00
	2400/06	0100/03	0700/17	1000/08	1700/09	0300/09	0100/30	2200/03	0400/28	2400/24	1300/28	0900/24

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.10

ANNUAL SUMMARY OF LEVELS, 1981

Station 7078: Green Bay, Wisconsin on Lake Michigan (Green Bay)

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.56	Aug	578.62	Feb
Daily mean elevation:	580.18	10 May	578.09	27 Sep
Instant/hourly Elevation:	581.24	1700/9 May	576.89	1200/27 Sep

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.91	25 Jan
578.95	22 Feb
578.88	31 Mar
579.46	23 Apr
580.18	10 May
579.70	30 Jun
579.82	21 Jul
579.94	28 Aug
579.91	30 Sep
579.93	1 Oct
	Nov
	Dec

STATION CLOSED

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.41	7 Jan
578.35	2 Feb
578.47	14 Mar
578.54	6 Apr
579.02	2 May
579.15	18 Jun
579.24	31 Jul
579.30	12 Aug
578.09	27 Sep
578.43	19 Oct
	Nov
	Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
580.00					1								580.00	1
579.80							2	4	2	1			579.80	10
579.60					1	1	9	3	3				579.60	27
579.40				2	5	9	14	21	7	1			579.40	86
579.20				4	15	15	6	3	9	6			579.20	144
579.00				7	9	5			3	8			579.00	176
578.80	3	5	2	5						2			578.80	193
578.60	16	11	19	6					2				578.60	247
578.40	12	11	10	2						2			578.40	284
578.20		1											578.20	285
578.00									1				578.00	286

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7078: Green Bay, Wisconsin on Lake Michigan (Green Bay)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.84	578.77	578.56	578.58	579.42	579.16*	579.82	579.32	579.61	579.93	/	/
2	578.53	578.35	578.50	578.62	579.02	579.30*	579.78	579.44	579.52	579.44	/	/
3	578.52	578.42*	578.65	578.87	579.19	579.36*	579.67	579.44	579.50	579.14	/	/
4	578.51	578.43*	578.73	579.02	579.27	579.28*	579.61	579.49	579.65	579.22	/	/
5	578.68	578.60	578.79	578.64	579.59	579.19	579.59	579.48	579.59	579.26	/	/
6	578.53	578.50	578.65	578.54	579.24	579.27	579.51	579.49	579.51	579.09	/	/
7	578.41	578.74	578.64	578.76	579.08	579.27	579.46	579.85	579.35	578.98	/	/
8	578.63	578.41	578.74	578.94	579.15	579.20	579.40	579.76	579.36	579.09	/	/
9	578.52	578.46	578.76	578.79	579.46	579.17	579.40	579.51	579.12	579.39	/	/
10	578.47	578.46	578.73	578.81	580.18	579.23	579.39	579.58	579.33	579.35	/	/
11	578.55	578.41	578.63	579.14	579.67	579.30	579.45	579.42	579.48	579.27	/	/
12	578.71	578.49	578.59	579.37	579.17	579.33	579.56	579.30	579.32	579.26	/	/
13	578.77	578.73	578.53	579.17	579.18	579.48	579.53	579.58	579.30	579.18	/	/
14	578.77	578.66	578.47	579.00	579.23	579.50	579.49	579.53	579.55	579.11	/	/
15	578.84	578.81	578.54	578.62	579.29	579.36	579.67	579.73	579.53	579.18	/	/
16	578.65	578.64	578.60	578.72*	579.51	579.24	579.49	579.92	579.85	578.97	/	/
17	578.71	578.68	578.54	/	579.44	579.23	579.45	579.55	579.74	579.11	/	/
18	578.62	578.72	578.61	/	579.33	579.15	579.56	579.43	579.12	579.05	/	/
19	578.66	578.67	578.55	/	579.22	579.35	579.62	579.50	578.80*	578.43	/	/
20	578.75	578.57	578.57	/	579.17	579.50	579.72	579.51	/	578.52*	/	/
21	578.74	578.62	578.68	579.04*	579.13	579.55	579.82	579.46	/	/	/	/
22	578.49	578.95	578.75	579.23	579.22	579.45	579.62	579.44	/	/	/	/
23	578.61	578.81	578.72	579.46	579.35	579.38	579.47	579.31	579.24*	/	/	/
24	578.70	578.63	578.68	579.27	579.39	579.51	579.47	579.60	579.18	/	/	/
25	578.91	578.54	578.69	578.97	579.26	579.43	579.68	579.50	579.36	/	/	/
26	578.64	578.67	578.86	579.13	579.24*	579.37	579.59	579.60	579.24	/	/	/
27	578.51	578.91	578.69	579.19	579.33*	579.47	579.50	579.93	578.09	/	/	/
28	578.63	578.81	578.64	579.42*	579.26	579.37	579.69	579.94	578.77	/	/	/
29	578.55		578.70	579.05*	579.32	579.43	579.35	579.77	579.40	/	/	/
30	578.56		578.77	579.21	579.33	579.70	579.24	579.56	579.91	/	/	/
31	578.68		578.88		579.05		579.24	579.53		/	STATION CLOSED	/
MEAN	578.64	578.62	578.66	578.98	579.31	579.35	579.54	579.56	579.35	579.15	/	/
MAX.	579.41	579.75	579.39	579.99	581.24	580.13	580.85	580.57	580.61	580.80		
	1700/16	0800/23	1500/16	2400/27	1700/09	2000/06	2100/25	0500/16	1800/11	1500/01		
MIN.	577.57	577.68	577.64	577.72	578.22	578.17	578.65	578.95	576.89	577.87		
	0100/07	2400/02	1100/16	0200/02	0100/03	0100/08	2400/29	2400/14	1200/27	1900/19		

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.12

ANNUAL SUMMARY OF LEVELS, 1981

Station 7079: Green Bay, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.55	Aug	578.57	Dec
Daily mean elevation:	579.93	1 Oct	577.80	24 Dec
Instant/hourly Elevation:	580.84	2100/25 Jul	576.88	1200/27 Sep

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.90	25 Jan
578.96	22 Feb
578.91	31 Mar
579.10	11 Apr
579.44	26 May
579.66	30 Jun
579.81	21 Jul
579.93	28 Aug
579.91	30 Sep
579.93	1 Oct
579.71	19 Nov
579.24	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.39	7 Jan
578.35	2 Feb
578.51	2 Mar
578.56	6 Apr
579.19	31 May
579.17	18 Jun
579.23	31 Jul
579.30	23 Aug
578.10	27 Sep
578.47	19 Oct
578.26	10 Nov
577.80	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.80							2	4	2	1			579.80	9
579.60						1	6	3	2		1		579.60	22
579.40					1	9	17	20	11	2	1		579.40	83
579.20					4	14	6	4	10	12		1	579.20	134
579.00				2	1	3			3	10	6		579.00	159
578.80	3	5	3	3						3	13	2	578.80	191
578.60	15	11	20	4					1	1	5	14	578.60	262
578.40	12	11	8	2						2	3	7	578.40	307
578.20	1	1									1	4	578.20	314
578.00									1			2	578.00	317
577.80													577.80	317
577.60												1	577.60	318

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7079: Green Bay, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.84	578.76	578.58	578.60	/	579.27	579.81	579.30	579.60	579.93	579.05	579.24
2	578.52	578.35	578.51	578.63	/	579.39	579.77	579.43	579.53	579.47	579.07	578.76
3	578.51	578.42	578.66	578.90	/	579.35	579.66	579.41	579.50	579.18	579.12	578.81
4	578.50	578.41	578.75	579.03	/	579.26*	579.59	579.47	579.66	579.25	579.07	578.89
5	578.67	578.58	578.80	578.66	/	/	579.56	579.46	579.60	579.27	579.03	578.68
6	578.52	578.50	578.67	578.56	/	/	579.48	579.48	579.50	579.07	578.82	578.62
7	578.39	578.74	578.65	578.78	/	/	579.44	579.83	579.34	578.96	578.75	578.73
8	578.63	578.41	578.75	578.96	/	579.20*	579.38	579.73	579.36	579.13	578.95	578.77
9	578.51	578.47	578.77	578.75	/	579.18	579.40	579.49	579.12	579.41	578.79	578.76
10	578.46	578.48	578.74	578.83	/	579.25	579.39	579.56	579.34	579.38	578.26	578.70
11	578.53	578.42	578.64	579.10*	/	579.30	579.43	579.40	579.48	579.30	578.87	578.65
12	578.71	578.50	578.61	/	/	579.33	579.53	579.30	579.31	579.28	578.79	578.67
13	578.77	578.74	578.60	/	/	579.48	579.52	579.57	579.29	579.22	578.71	578.54
14	578.76	578.68	578.54	/	/	579.50	579.50	579.52	579.54	579.15	578.91	578.52
15	578.83	578.84	578.56	/	/	579.36	579.65	579.71	579.53	579.22	578.98	578.61
16	578.65	578.67	578.69	/	/	579.24	579.47	579.91	579.83	579.00	578.98	578.60
17	578.71	578.71	578.53	/	/	579.24	579.43	579.54	579.77	579.14	578.81	578.67
18	578.61	578.75	578.63	/	/	579.17	579.53	579.43	579.14	579.08	578.84	578.61
19	578.66	578.69	578.60	/	/	579.36	579.59	579.49	579.24	578.47	579.71	578.53
20	578.74	578.58	578.59	/	/	579.49	579.71	579.49	579.22	579.07	579.42	578.33
21	578.73	578.62	578.68	/	/	579.54	579.81	579.45	579.56	579.27	578.86	578.11
22	578.49	578.96	578.75	/	/	579.46	579.60	579.43	579.58	579.11	578.70	578.46
23	578.60	578.82	578.74	/	/	579.40	579.46	579.30	579.28	578.89	578.92	578.17
24	578.68	578.65	578.69	/	/	579.51	579.44	579.58	579.18	578.48	578.92	577.80
25	578.90	578.56	578.70	/	/	579.43	579.66	579.49	579.35	578.77	578.85	578.27
26	578.64	578.69	578.87	/	579.44*	579.37	579.57	579.58	579.24	579.17	579.17	578.75
27	578.51	578.92	578.72	/	579.40	579.45	579.46	579.93	578.10	579.18	578.41	578.60
28	578.62	578.82	578.66	/	579.29	579.36	579.68	579.93	578.80	579.25	578.42	578.24
29	578.55		578.72	/	579.36	579.41	579.32	579.76	579.41	579.32	578.57	578.32
30	578.55		578.81	/	579.35	579.66	579.23	579.54	579.91	579.33	578.83	578.51
31	578.67		578.91		579.19		579.23	579.53		579.25		578.76
MEAN	578.63	578.63	578.68	578.80	579.34	579.37	579.53	579.55	579.38	579.16	578.89	578.57
MAX.	579.41	579.75	579.42	579.90	579.72	580.06	580.84	580.56	580.62	580.78	580.29	579.90
	1700/16	0800/23	0400/16	0300/11	2300/26	0500/25	2100/25	0500/16	1800/11	1500/01	0600/06	0800/01
MIN.	577.45	577.62	577.83	577.77	578.65	578.63	578.69	578.95	576.88	577.72	577.09	577.21
	0100/07	1300/04	1100/16	0200/02	2400/31	2300/10	2400/29	2400/14	1200/27	2300/24	0900/10	2400/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.04

ANNUAL SUMMARY OF LEVELS, 1981

Station 7096: Port Inland, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.41	Jul	578.60	Feb
Daily mean elevation:	579.69	28 Jun	578.25	10 Feb
Instant/hourly Elevation:	580.15	1000/1 Oct	577.87	2200/15 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.83	1 Jan
578.85	15 Feb
578.85	28 Mar
579.51	23 Apr
579.34	25 May
579.69	28 Jun
579.60	2 Jul
579.61	29 Aug
579.48	11 Sep
579.54	1 Oct
579.19	26 Nov
579.15	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.48	27 Jan
578.25	10 Feb
578.43	17 Mar
578.47	5 Apr
578.92	10 May
579.20	6 Jun
579.20	26 Jul
579.25	15 Aug
578.68	28 Sep
578.68	7 Oct
578.46	28 Nov
578.28	25 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
579.60						1		1					579.60	2
579.40				1		12	16	10	5	1			579.40	47
579.20					15	16	13	20	14	10			579.20	135
579.00				7	14	1	1		10	16	5	2	579.00	191
578.80	2	2	1	16	2					3	16	2	578.80	235
578.60	17	11	21	5					1	1	8	12	578.60	311
578.40	12	13	9	1							1	11	578.40	358
578.20		2										4	578.20	364

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7096: Port Inland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.83	578.78	578.66	578.99	579.11	579.34	579.50	579.35	579.48	579.54	578.96	579.15
2	578.51	578.39	578.45	578.64	579.09	579.34	579.60	579.34	579.27	579.01	578.98	578.89
3	578.59	578.52	578.70	578.88	579.28	579.33	579.58	579.33	579.39	579.05	579.04	578.76
4	578.62	578.47	578.68	578.86	579.27	579.21	579.54	579.35	579.26	579.24	579.00	578.77
5	578.79	578.72	578.69	578.47	578.97	579.34	579.48	579.28	579.35	579.18	579.07	578.73
6	578.52	578.50	578.58	578.69	579.01	579.20	579.50	579.41*	579.36	579.08	578.66	579.04
7	578.50	578.71	578.58	578.89	579.08	579.24	579.53	579.50*	579.41	578.68	578.93	578.78
8	578.66	578.47	578.70	578.81	579.17	579.47	579.52	579.50*	579.15	579.06	578.84	578.48
9	578.53	578.50	578.73	578.89	579.03	579.23	579.37	579.44*	579.41	579.23	578.85	578.47
10	578.59	578.25	578.67	578.98	578.92	579.29	579.42	579.45*	579.30	579.23	579.06	578.38
11	578.61	578.46	578.68	578.79	579.09	579.34	579.46*	579.40	579.48	579.07	578.73	578.55
12	578.70	578.51	578.71	578.98	579.11	579.31	/	579.38	579.33	579.12	579.02	578.75
13	578.74	578.71	578.46	578.96	579.19	579.44	579.33*	579.42*	579.32	579.25	578.92	578.65
14	578.68	578.60	578.75	578.69	579.19	579.46	579.33	579.35*	579.24	579.33	578.98	578.64
15	578.69	578.85	578.46	578.95	579.25	579.46	579.46	579.25*	579.18	579.04	578.97	578.55
16	578.60	578.71	578.72	579.01	579.12	579.45	579.40	579.27	579.21	579.08	578.94	578.52
17	578.72	578.71	578.43	578.99	579.21	579.41	579.44	579.36	579.23	579.36	578.82	578.57
18	578.61	578.71	578.56	578.75	579.16	579.59	579.46	579.33	579.30	579.07	578.63	578.47
19	578.65	578.57	578.54	578.90	579.18	579.36	579.45	579.36	579.05	579.05	578.66	578.51
20	578.66	578.47	578.54	578.87	579.25	579.48	579.39	579.36	579.08	578.99	578.72	578.79
21	578.76	578.49	578.62	579.03	579.26	579.46	579.24	579.37	579.12	579.09	578.68	578.76
22	578.50	578.64	578.68	579.20	579.24	579.38	579.35	579.44	579.17	579.21	578.74	578.59
23	578.58	578.74	578.65	579.51	579.31	579.40	579.40	579.36	579.11	578.93	578.83	578.72
24	578.61	578.72	578.61	578.96	579.34	579.56	579.49*	579.29	579.13	579.22	578.89	578.33
25	578.81	578.44	578.65	578.94	579.34	579.34	579.34	579.39	579.25	579.11	578.87	578.28
26	578.66	578.56	578.76	579.05	579.25	579.36	579.20	579.35	579.41	579.08	579.19	578.64
27	578.48	578.78	578.67	579.02	579.24	579.48	579.22	579.34	579.12	579.03	578.93	578.86
28	578.62	578.81	578.85	578.94	579.24	579.69	579.33	579.55	578.68	578.97	578.46	578.39
29	578.50		578.71	579.08	579.30	579.52	579.33	579.61	579.06	579.18	578.74	578.44
30	578.53		578.78	579.04	579.07	579.37	579.31	579.46	579.24	579.28	578.81	578.47
31	578.66		578.74		579.22		579.44	579.49		579.22		578.79
MEAN	578.63	578.60	578.65	578.93	579.18	579.40	579.41	579.39	579.24	579.13	578.86	578.64
MAX.	579.17	579.37	579.12	579.87	579.53	580.12	579.73	579.80	579.86	580.15	579.63	579.53
	1700/05	1900/22	2400/31	1200/23	0100/25	0300/29	2100/02	0900/29	0600/27	1000/01	0700/10	2200/01
MIN.	578.15	578.04	577.87	578.28	578.51	578.95	578.99	579.02	578.26	578.52	578.29	577.92
	2200/06	2400/10	2200/15	1800/05	2100/09	1800/06	0200/26	2300/15	0400/28	1000/07	0200/28	0200/25

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 579.00

ANNUAL SUMMARY OF LEVELS, 1981

Station 9004: Pt. Iroquois, Brimley, Michigan on Lake Superior (Whitefish Bay

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	600.83	Jul	599.92	Feb
Daily mean elevation:	601.09	18 Oct	599.66	15 Feb
Instant/hourly Elevation:	601.93	1400/18 Oct	599.08	0300/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.45	1 Jan
600.22	11 Feb
600.17	2 Mar
600.62	14 Apr
600.67	5 May
600.97	25 Jun
600.96	9 Jul
600.93	15 Aug
600.84	8 Sep
601.09	18 Oct
600.72	27 Nov
600.41	9 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
599.75	25 Jan
599.66	15 Feb
599.68	28 Mar
599.86	2 Apr
600.11	3 May
600.34	1 Jun
600.65	31 Jul
600.48	31 Aug
600.19	30 Sep
599.99	30 Oct
599.98	26 Nov
599.82	26 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
601.00										1			601.00	1
600.80						5	22	10	1				600.80	39
600.60				1	3	13	9	16	14	4	3		600.60	102
600.40	4			2	18	10		5	10	9	10	1	600.40	171
600.20	5	1		12	8	2			4	13	9	14	600.20	239
600.00	17	10	12	12	2				1	3	7	9	600.00	312
599.80	3	8	15	3						1	1	7	599.80	350
599.60	2	9	4										599.60	365
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9004: Pt. Iroquois, Brimley, Michigan on Lake Superior (Whitefish Bay

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.45	600.01	600.09	600.04	600.39	600.34	600.87	600.72	600.72	600.41*	600.38	600.11
2	600.35	600.13	600.17	599.86	600.16	600.38	600.80	600.81	600.68	600.53	600.46	600.36
3	600.35	600.03	599.93	600.01	600.11	600.60	600.78	600.84	600.62	600.36	600.36	600.23
4	600.43	600.04	600.05	600.21	600.35	600.59	600.84	600.91	600.75	600.25*	600.29	600.30
5	600.19	599.91	600.04	600.42	600.67	600.50	600.87	600.82	600.66	600.35	600.49	600.25
6	600.42	600.01	600.08	600.06	600.52	600.69	600.84	600.75	600.55	600.78	600.68	599.96
7	600.35	599.89	600.04	600.00	600.43	600.47	600.79	600.83	600.58	600.70	600.36	600.29
8	600.18	600.10	599.98	600.15	600.34	600.58	600.81	600.86	600.84	600.47	600.69	600.36
9	600.42	599.95	599.96	600.09	600.61	600.64	600.96	600.80	600.53	600.30	600.41	600.41
10	600.21	600.02	600.01	600.02	600.56	600.62	600.86	600.87	600.63	600.29	600.45	600.38
11	600.21	600.22	599.93	600.21	600.62	600.59	600.81	600.80	600.52	600.37	600.44	600.25
12	600.02	599.87	600.07	600.04	600.60	600.59	600.84	600.81	600.60	600.26*	600.19	600.04
13	600.08	599.79	600.04	600.07	600.54	600.46	600.92	600.74	600.62	600.10*	600.17	600.17
14	600.04	599.75	599.93	600.62	600.49	600.55	600.91	600.69	600.70	600.23	600.13	600.21
15	600.07	599.66	600.03	600.11	600.51	600.65	600.85	600.93	600.68	600.55*	600.15	600.24
16	600.14	599.75	599.99	600.10	600.57	600.72	600.85	600.91	600.61	600.31	600.22	600.21
17	600.05	599.77	600.05	600.27	600.49	600.58	600.78	600.80	600.56	600.17*	600.44	600.19
18	600.13	599.76	599.99	600.32	600.48	600.63	600.82	600.76	600.46	601.09	600.52	600.25
19	600.05	599.86	600.02	600.32	600.44	600.71	600.82	600.74	600.66	600.49	600.38	600.17
20	599.96	599.92	600.00	600.27	600.39	600.66	600.90	600.70	600.61	600.66*	600.47	599.94
21	600.04	599.80	599.89	600.01	600.39	600.75	600.95	600.66	600.48	600.49	600.44	599.96
22	600.17	599.74	599.83	599.93	600.32	600.85	600.84	600.60	600.45	600.45	600.35	600.02
23	600.05	599.89	599.89	600.20	600.30	600.75	600.75	600.68	600.35	600.70	600.24	600.08
24	599.90	600.05	599.87	600.50	600.34	600.72	600.66	600.68	600.34	600.28	600.18	600.24
25	599.75	600.06	599.74	600.38	600.43	600.97	600.84	600.62	600.26	600.44	600.06	600.14
26	600.15	599.96	599.80	600.28	600.55	600.83	600.93	600.61	600.21	600.32	599.98	599.82
27	600.02	599.77	599.83	600.33	600.48	600.70	600.85	600.68	600.79	600.46	600.72	599.88
28	600.02	600.13	599.68	600.34	600.45	600.62	600.84	600.55	600.70	600.36	600.56	600.22
29	600.07		599.88	600.36	600.43	600.85	600.78	600.53	600.44	600.16	600.31	600.04
30	599.98		600.00	600.37	600.59	600.95	600.70	600.59	600.19	599.99*	600.18	599.98
31	599.77		599.74		600.44		600.65	600.48		600.29*		599.92
MEAN	600.13	599.92	599.95	600.20	600.45	600.65	600.83	600.73	600.56	600.41	600.36	600.15
MAX.	601.02	600.58	600.41	601.10	601.08	601.28	601.15	601.13	601.82	601.93	601.28	600.61
	1900/01	1900/01	2000/01	0800/14	1000/05	1000/14	0500/09	0900/15	2100/27	1400/18	1200/08	2300/09
MIN.	599.43	599.32	599.19	599.08	599.77	599.74	600.38	600.14	599.88	599.73	599.75	599.34
	0900/25	0200/15	2300/31	0300/01	0600/03	1500/14	1900/31	1500/31	1500/26	1900/30	0600/26	0500/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 600.36

ANNUAL SUMMARY OF LEVELS, 1981

Station 9018: Marquette Coast Guard, Marquette, Michigan on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	600.91	Jul	600.02	Feb
Daily mean elevation:	600.97	30 Jun	599.88	28 Mar
Instant/hourly Elevation:	601.30	1000/15 Jun	599.61	1400/29 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.48	3 Jan
600.22	2 Feb
600.19	2 Mar
600.47	23 Apr
600.65	9 May
600.97	30 Jun
600.96	12 Jul
600.94	15 Aug
600.78	2 Sep
600.79	18 Oct
600.57	6 Nov
600.43	8 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
599.92	31 Jan
599.88	15 Feb
599.88	28 Mar
600.05	1 Apr
600.34	2 May
600.56	1 Jun
600.80	31 Jul
600.66	31 Aug
600.36	30 Sep
600.36	13 Oct
600.24	25 Nov
600.02	30 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
600.80						13	29	20					600.80	62
600.60					4	15	2	11	19	1			600.60	114
600.40	3			4	25	2			10	26	17	1	600.40	202
600.20	9	1		20	2				1	4	13	16	600.20	268
600.00	18	12	19	6								14	600.00	337
599.80	1	15	12										599.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9018: Marquette Coast Guard, Marquette, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.41	600.13	600.08	600.05	600.42	600.56	600.96	600.85	600.76	600.58	600.47	600.33
2	600.45	600.22	600.19	600.07	600.34	600.60	600.95	600.90	600.78	600.55	600.47	600.36
3	600.48	600.10	600.05	600.18	600.38	600.71	600.95	600.91	600.69	600.44	600.45	600.36
4	600.40	600.08	600.11	600.38	600.55	600.68	600.95	600.91	600.77	600.40	600.44	600.33
5	600.17	599.95	600.10	600.36	600.62	600.66	600.94	600.90	600.73	600.45	600.51	600.29
6	600.35	599.98	600.13	600.20	600.54	600.69	600.93	600.86	600.64	600.53	600.57	600.22
7	600.40	600.09	600.08	600.14	600.52	600.66	600.92	600.94	600.61	600.55	600.46	600.36
8	600.23	600.14	600.02	600.23	600.53	600.69	600.92	600.89	600.74	600.45	600.53	600.43
9	600.34	599.98	600.03	600.20	600.65	600.70	600.96	600.88	600.67	600.42	600.48	600.40
10	600.34	600.10	600.04	600.21	600.61	600.75	600.94	600.89	600.67	600.42	600.43	600.32
11	600.33	600.08	600.00	600.25	600.61	600.70	600.93	600.87	600.66	600.44	600.43	600.25
12	600.16	599.95	600.06	600.25	600.56	600.74	600.96	600.88	600.66	600.40	600.32	600.15
13	600.18	599.88	600.07	600.21	600.56	600.72	600.92	600.90	600.68	600.36	600.32	600.17
14	600.19	599.92	599.95	600.41	600.54	600.84	600.91	600.84	600.67	600.44	600.33	600.23
15	600.31	599.88	600.10	600.26	600.54	600.78	600.91	600.94	600.69	600.49	600.36	600.28
16	600.28	599.92	600.04	600.25	600.58	600.80	600.89	600.92	600.72	600.44	600.39	600.27
17	600.14	599.92	600.15	600.31	600.55	600.78	600.90	600.82	600.63	600.45	600.40	600.30
18	600.13	599.93	600.13	600.33	600.51	600.80	600.91	600.82	600.54	600.79	600.47	600.37
19	600.12	599.97	600.05	600.37	600.51	600.83	600.89	600.83	600.64	600.54	600.51	600.22
20	600.12	599.96	600.00	600.30	600.51	600.84	600.93	600.82	600.61	600.57	600.55	600.02
21	600.10	599.95	599.94	600.21	600.50	600.84	600.95	600.79	600.57	600.55	600.46	600.02
22	600.11	600.00	599.93	600.24	600.50	600.85	600.89	600.74	600.52	600.55	600.33	600.08
23	600.11	600.06	599.96	600.47	600.49	600.83	600.87	600.75	600.44	600.60	600.29	600.06
24	600.09	600.07	599.92	600.44	600.54	600.87	600.80	600.76	600.43	600.43	600.25	600.06
25	600.03	600.09	599.89	600.39	600.57	600.92	600.90	600.75	600.45	600.47	600.24	600.11
26	600.18	600.03	599.94	600.40	600.58	600.90	600.92	600.73	600.43	600.47	600.29	600.07
27	600.12	599.98	599.92	600.40	600.57	600.87	600.89	600.75	600.43	600.53	600.41	600.06
28	600.14	600.10	599.88	600.40	600.54	600.86	600.88	600.74	600.56	600.52	600.42	600.14
29	600.15		599.98	600.40	600.56	600.96	600.87	600.70	600.47	600.41	600.29	600.10
30	600.04		600.10	600.42	600.58	600.97	600.83	600.70	600.36	600.37	600.29	600.02
31	599.92		600.03		600.55		600.80	600.66		600.44		600.15
MEAN	600.21	600.02	600.03	600.29	600.54	600.78	600.91	600.83	600.61	600.49	600.41	600.21
MAX.	600.69	600.61	600.37	600.87	601.15	601.30	601.13	601.09	600.94	601.14	600.74	600.61
	2400/01	2100/01	2400/01	1200/04	2300/29	1000/15	0500/12	1600/04	0900/01	1200/18	0400/06	1300/01
MIN.	599.80	599.71	599.61	599.62	600.20	600.26	600.67	600.49	599.96	600.21	600.15	599.87
	1600/24	0600/01	1400/29	0400/01	2000/02	0600/01	1800/31	2000/31	0100/27	0700/04	0400/25	1800/30

ANNUAL MEAN: 600.44

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 9044: Ontonagon, Michigan on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	600.95	Jul	600.20	Dec
Daily mean elevation:	601.05	1 Jul	600.06	28 Mar
Instant/hourly Elevation:	601.61	1500/14 Jun	599.88	2400/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.40	2 Jan
	Feb
600.37	31 Mar
600.45	23 Apr
600.70	24 May
601.03	30 Jun
601.05	1 Jul
601.01	13 Aug
600.79	10 Sep
600.62	17 Oct
600.53	15 Nov
600.40	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.24	11 Jan
	Feb
600.06	28 Mar
600.16	5 Apr
600.40	1 May
600.71	3 Jun
600.85	21 Jul
600.72	30 Aug
600.39	27 Sep
600.42	2 Oct
600.29	27 Nov
600.07	23 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
601.00						2	6	1					601.00	9
600.80						17	25	23					600.80	74
600.60					11	8		7	18	2			600.60	120
600.40				5	16				11	20	16		600.40	188
600.20	11		3	24	1				1		11	13	600.20	252
600.00			1	1								18	600.00	272

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9044: Ontonagon, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.37	/	/	600.25	600.40	600.71	601.05	600.93	600.75	600.55	/	600.40
2	600.40	/	/	600.36	600.50	600.74	601.04	600.97	600.79	600.42	/	600.29
3	600.37	/	/	600.36	600.58	600.71	601.01	600.96	600.78	600.50	/	600.37
4	600.25	/	/	600.37	600.63	600.72	600.99	600.93	600.74	600.52	600.53*	600.28
5	600.27	/	/	600.16	600.69	/	600.98	600.97	600.69	600.50	600.51	600.30
6	600.33	/	/	600.24	600.70*	/	601.00	601.00	600.69	600.46	600.50	600.35
7	600.27	/	/	600.30	/	/	601.01	600.96	600.71	600.46	600.52	600.31
8	600.28	/	/	600.32	/	600.73	601.02	600.91	600.70	600.54	600.52	600.27
9	600.27	/	/	600.30*	600.56*	600.75	600.98	600.94	600.76	600.56	600.46	600.22
10	600.26	/	/	600.37	600.58	600.74	600.99	600.95	600.79	600.55	600.42	600.22
11	600.24*	/	/	600.37	600.54	600.76	601.02	600.94	600.75	600.52	600.49	600.19
12	/	/	/	600.40	600.54	600.81	600.99	600.96	600.73	600.54	600.43	600.18
13	/	/	/	600.35	600.54	600.86	600.96	601.01	600.75	600.58	600.48	600.19
14	/	/	/	600.28	600.58*	600.94	600.96	600.94	600.69	600.58	600.52	600.22
15	/	/	/	600.31	/	600.86	600.92	600.92	600.68	600.52	600.53	600.25
16	/	/	/	600.32	600.54*	600.87	600.91	600.83	600.65	600.56	600.48	600.22
17	/	/	/	600.32	600.56	600.95	600.94	600.82	600.60	600.62	600.41	600.19
18	/	/	/	600.36	600.52	600.84	600.91	600.83	600.55	/	600.40	600.15
19	/	/	/	600.28	600.52	600.90	600.94	600.84	600.63	600.59*	600.43	600.13
20	/	/	/	600.30	600.52	600.94	600.90	600.86	600.58	600.61	600.36	600.08
21	/	/	/	600.37	600.56	600.92	600.85	600.86	600.57	600.54	600.31	600.09
22	/	/	/	600.42	600.63	600.86	600.86	600.85	600.50	600.57	600.33	600.13
23	/	/	/	600.45	600.66	600.89	600.88	600.82	600.51	600.60*	600.36	600.07
24	/	/	/	600.36	600.70	600.97	600.92	600.88	600.48	/	600.32	600.08
25	/	/	/	600.39	600.64	600.89	600.92	600.78	600.54	/	600.39	600.15
26	/	/	/	600.41	600.62	600.94	600.89	600.78	600.49	/	600.45	600.19
27	/	/	/	600.38	600.62	601.00	600.92	600.77	600.39	/	600.29	600.13
28	/	/	600.06*	600.41	600.65	601.02	600.91	600.77	600.53	/	600.34	600.11
29	/		600.21	600.39	600.59*	600.98	600.89	600.75	600.53	/	600.33	600.11
30	/		600.34	600.43	600.59	601.03	600.91	600.72	600.62	/	600.36	600.13
31	/		600.37		600.63		600.90	600.76		/		600.16
MEAN	600.30	/	600.24	600.34	600.59	600.86	600.95	600.88	600.64	600.54	600.42	600.20
MAX.	600.53		600.63	600.77	600.86	601.61	601.20	601.22	601.09	600.88	600.65	600.63
	0600/01		1600/31	1600/03	1600/04	1500/14	1500/11	1700/03	0900/11	0800/01	1700/04	1100/01
MIN.	600.12		599.88	599.92	600.30	600.19	600.67	600.60	600.08	600.26	600.15	599.88
	1300/11		1800/28	1000/05	1200/01	2200/13	2300/31	1000/30	2200/26	0300/06	1300/27	2400/31

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 600.54

ANNUAL SUMMARY OF LEVELS, 1981
Station 9064: Duluth, Minnesota on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	601.10	Jul	600.09	Feb
Daily mean elevation:	601.33	24 Aug	599.87	11 Feb
Instant/hourly Elevation:	601.54	0300/1 Oct	599.59	1000/27 Sep

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.34	24 Jan
600.33	27 Feb
600.54	31 Mar
600.70	22 Apr
600.87	23 May
601.19	30 Jun
601.23	1 Jul
601.33	24 Aug
601.18	30 Sep
600.94	30 Oct
600.70	15 Nov
600.55	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
599.99	21 Jan
599.87	11 Feb
599.94	14 Mar
600.06	1 Apr
600.57	1 May
600.72	8 Jun
600.98	9 Jul
601.00	23 Aug
600.04	27 Sep
600.34	18 Oct
600.09	27 Nov
600.02	23 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
601.20							1	1					601.20	2
601.00						14	28	29	2				601.00	75
600.80					3	11	2	1	10	6			600.80	108
600.60				6	27	5			15	18	7		600.60	186
600.40			1	12	1				2	5	16	5	600.40	228
600.20	13	5	4	10						2	6	15	600.20	283
600.00	17	16	19	2					1		1	11	600.00	350
599.80	1	7	7										599.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9064: Duluth, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.19	600.04	599.98	600.06	600.57	600.94	601.23	601.02	600.89	600.82	600.60	600.55
2	600.33	599.95	600.09	600.35	600.80	600.88	601.20	601.07	601.05	600.62	600.66	600.38
3	600.19	599.95	600.29	600.38	600.78	600.80	601.17	601.07	600.93	600.79	600.62	600.53
4	600.23	599.93	600.15	600.36	600.69	600.86	601.13	601.03	600.92	600.75	600.68	600.35
5	600.26	600.00	600.16	600.18	600.65	600.75	601.14	601.18	600.97	600.64	600.43	600.45
6	600.19	600.08	600.10	600.44	600.69	600.80	601.11	601.19	601.00	600.38	600.56	600.52
7	600.22	600.23	600.10	600.37	600.73	600.94	601.14	601.08	600.79	600.56	600.58	600.29
8	600.17	600.02	600.17	600.36	600.78	600.72	601.10	601.07	600.77	600.74	600.37	600.36
9	600.09	599.98	600.12	600.39	600.72	600.83	600.98	601.04	600.82	600.83	600.45	600.28
10	600.12	600.02	600.11	600.43	600.74	600.80	601.06	601.03	600.89	600.76	600.35	600.35
11	600.10	599.87	600.04	600.39	600.67	600.86	601.12	601.04	600.79	600.73	600.58	600.36
12	600.28	600.11	599.97	600.57	600.68	600.94	601.06	601.05	600.71	600.82	600.56	600.32
13	600.28	600.14	600.04	600.40	600.70	601.10	601.02	601.17	600.79	600.79	600.63	600.27
14	600.22	600.20	599.94	600.22	600.72	601.03	601.18	601.07	600.69	600.67	600.69	600.24
15	600.25	600.18	600.08	600.43	600.72	600.97	601.15	601.04	600.73	600.62	600.70	600.26
16	600.13	600.08	599.98	600.47	600.86	600.91	601.08	601.07	600.75	600.68	600.54	600.27
17	600.02	600.13	599.98	600.30	600.80	601.11	601.11	601.06	600.73	600.73	600.39	600.20
18	600.12	600.09	600.01	600.48	600.67	600.81	601.09	601.03	600.54	600.34	600.56	600.17
19	600.25	600.12	599.96	600.47	600.68	601.01	601.09	601.03	600.66	600.64	600.53	600.16
20	600.29	600.18	600.00	600.53	600.63	601.05	601.08	601.06	600.72	600.68	600.39	600.23
21	599.99	600.22	600.10	600.65	600.70	601.06	601.07	601.07	600.83	600.71	600.42	600.12
22	600.06	600.24	600.10	600.70	600.79	600.97	601.12	601.08	600.78	600.60	600.49	600.21
23	600.16	600.08	600.04	600.51	600.87	601.07	601.19	601.00	600.72	600.53	600.56	600.02
24	600.34	599.97	600.09	600.43	600.83	601.07	601.13	601.33	600.67	600.68	600.45	600.05
25	600.28	600.13	600.22	600.60	600.74	601.02	601.01	601.18	600.90	600.56	600.63	600.20
26	600.12	600.27	600.12	600.61	600.72	601.09	601.00	601.09	600.62	600.71	600.54	600.42
27	600.11	600.33	600.15	600.66	600.73	601.17	601.05	601.09	600.04	600.65	600.09	600.18
28	600.12	600.03	600.21	600.60	600.75	601.18	601.03	601.14	600.49	600.86	600.36	600.09
29	600.11		600.33	600.61	600.65	601.04	601.03	601.02	600.87	600.93	600.40	600.09
30	600.11		600.19	600.65	600.73	601.19	601.10	601.02	601.18	600.94	600.53	600.34
31	600.21		600.54		600.75		601.03	601.11		600.60		600.20
MEAN	600.18	600.09	600.11	600.45	600.73	600.97	601.10	601.08	600.77	600.69	600.51	600.27
MAX.	600.59	600.51	600.99	600.93	601.15	601.53	601.42	601.48	601.54	601.54	600.91	600.86
	0300/20	0400/07	1700/31	2300/29	1500/02	1300/14	1400/17	1000/24	1600/30	0300/01	0800/04	0700/01
MIN.	599.65	599.64	599.61	599.66	600.18	600.37	600.65	600.74	599.59	600.02	599.91	599.76
	1300/21	0600/11	2000/17	1100/01	2000/29	0900/18	0200/25	2400/31	1000/27	1100/06	0600/27	2100/23

ANNUAL MEAN: 600.58

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 9070: Two Harbors, Minnesota on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	601.03	Jul	600.04	Feb
Daily mean elevation:	601.15	24 Aug	599.83	11 Feb
Instant/hourly Elevation:	601.51	1500/14 Jun	599.60	2000/17 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.28	24 Jan
600.26	27 Feb
600.37	31 Mar
600.63	22 Apr
600.79	23 May
601.12	28 Jun
601.12	1 Jul
601.15	24 Aug
600.99	2 Sep
601.05	1 Oct
600.66	15 Nov
600.55	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
599.98	21 Jan
599.83	11 Feb
599.85	17 Mar
600.02	1 Apr
600.52	1 May
600.71	8 Jun
600.94	26 Jul
600.95	30 Aug
600.10	27 Sep
600.34	18 Oct
600.10	27 Nov
600.00	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
601.00						7	22	14		1			601.00	44
600.80						16	9	17	9	2			600.80	97
600.60				1	28	7			17	18	3		600.60	171
600.40				12	3				3	8	18	7	600.40	222
600.20	8	1	3	15						2	7	9	600.20	267
600.00	22	16	17	2					1		1	11	600.00	337
599.80	1	11	8									1	599.80	358

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9070: Two Harbors, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.17	600.00	599.95	600.02	600.52	600.84	601.12	600.99	600.85	601.05*	600.56	600.51
2	600.28	599.92	600.05	600.28	600.69	600.82	601.11	601.02	600.99	600.62*	600.59	600.43
3	600.17	599.93	600.24	600.28	600.71	600.74	601.08	601.02	600.87	600.70	600.58	600.55
4	600.20	599.91	600.10	600.27	600.62	600.81	601.05	600.98	600.86	600.69	600.63	600.42
5	600.24	599.97	600.11	600.14	600.59	600.72	601.05	601.07*	600.91	600.56	600.42	600.48
6	600.14	600.04	600.05	600.37	600.62	600.76	601.06	601.13*	600.94	600.38	600.51	600.55
7	600.18	600.15	600.06	600.34	600.68	600.89	601.08	601.04	600.79	600.50	600.55	600.36
8	600.16	599.98	600.12	600.29	600.72	600.71	601.04	601.03	600.77	600.66	600.37	600.36
9	600.06	599.94	600.08	600.35	600.66	600.80	600.95	601.01	600.81	600.75	600.44	600.22
10	600.10	599.97	600.07	600.38	600.65	600.76	601.01	601.00	600.83	600.70	600.35	600.28
11	600.08	599.83	600.01	600.32	600.61	600.83	601.07	601.00	600.72	600.65	600.52	600.31
12	600.24	600.05	599.95	600.48	600.61	600.88	601.02	601.00	600.69	600.74	600.54	600.29
13	600.23	600.09	599.99	600.36	600.64	601.02	600.98	601.10	600.73	600.72	600.58	600.22
14	600.17	600.16	599.95	600.22	600.66	600.98	601.07	601.00	600.65	600.62	600.63	600.20
15	600.21	600.13	600.03	600.39	600.65	600.88	601.05	600.99	600.69	600.58	600.66*	600.21
16	600.10	600.04	599.87*	600.41	600.71	600.87	601.02	601.00	600.73	600.65	/	600.20
17	600.02	600.07	599.85*	600.32	600.68	601.04	601.05	601.00	600.70	600.70	600.35*	600.14
18	600.09	600.05	599.95	600.43	600.61	600.80	601.03	600.98	600.53	600.34	600.47	600.11
19	600.20	600.06	599.94*	600.40	600.61	600.95	601.04	600.99	600.61	600.62	600.47	600.13
20	600.23	600.10	/	600.42	600.59	600.99	601.03	601.00	600.66	600.64	600.35	600.19
21	599.98	600.16	/	600.56	600.64	600.97	600.98	601.02	600.74	600.66	600.37	600.10
22	600.02	600.18	/	600.63	600.73	600.89	601.04	601.01	600.69	600.58	600.44	600.17
23	600.11	600.01	600.02*	600.47	600.79	600.99	601.11	600.95	600.67	600.50	600.50	600.02
24	600.28	599.96	600.03	600.37	600.78	601.03	601.07	601.15	600.63	600.67	600.42	600.00
25	600.25	600.09	600.16	600.49	600.67	600.94	600.97	601.03	600.80	600.52	600.54	600.15
26	600.08	600.20	600.05	600.54	600.64	601.03	600.94	600.99	600.60	600.66	600.52	600.34
27	600.07	600.26	600.07	600.53	600.68	601.10	601.00	600.98	600.10	600.60	600.10	/
28	600.07	600.00	600.13	600.52	600.69	601.12	600.98	601.03	600.45	600.75*	600.32	/
29	600.07		600.22	600.53	600.63	601.00	600.98	600.96	600.65	600.82*	600.38	/
30	600.08		600.12	600.56	600.66	601.08	601.04	600.95	600.92	600.87	600.47	600.43*
31	600.16		600.37		600.68		601.00	601.04		600.57		600.15
MEAN	600.14	600.04	600.06	600.39	600.66	600.91	601.03	601.01	600.72	600.65	600.47	600.27
MAX.	600.48	600.39	600.73	600.84	600.98	601.51	601.32	601.29	601.24	601.22	600.84	600.77
	0400/20	0500/07	1700/31	0100/28	1400/02	1500/14	1800/31	0200/01	1500/30	0300/01	0900/04	0700/01
MIN.	599.71	599.65	599.60	599.67	600.28	600.42	600.74	600.78	599.66	600.02	599.98	599.81
	2300/21	0500/11	2000/17	1100/01	2000/29	0800/15	0800/28	2300/31	1100/27	1100/18	1100/27	2300/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 600.53

ANNUAL SUMMARY OF LEVELS, 1981
Station 9090: Grand Marais, Minnesota on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	600.89	Jul	Monthly mean elevation:	599.93	Mar
Daily mean elevation:	600.96	6 Aug	Daily mean elevation:	599.76	11 Feb
Instant/hourly Elevation:	601.17	0400/6 Aug	Instant/hourly Elevation:	599.63	2000/17 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.17	5 Jan
600.08	27 Feb
600.14	31 Mar
600.40	27 Apr
600.60	24 May
600.95	28 Jun
600.96	3 Jul
600.96	6 Aug
600.77	2 Sep
600.64	30 Oct
600.49	4 Nov
600.34	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
599.94	29 Jan
599.76	11 Feb
599.81	17 Mar
599.99	1 Apr
600.39	1 May
600.61	1 Jun
600.82	26 Jul
600.77	30 Aug
600.17	27 Sep
600.26	18 Oct
600.10	27 Nov
600.01	28 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (ft.)	No. of days above elev.
600.80						15	31	25					600.80	71
600.60						15		6	11	1			600.60	104
600.40					30				17	26	11		600.40	188
600.20				23	1				1	4	18	7	600.20	242
600.00	22	3	2	6					1		1	24	600.00	301
599.80	9	24	29	1									599.80	364
599.60		1											599.60	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9090: Grand Marais, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.13	599.94	599.91	599.99	600.39	600.61	600.95	600.83	600.72	600.48	600.45	600.32
2	600.15	599.86	599.95	600.12	600.50	600.66	600.95	600.85	600.77	600.37	600.44	600.24
3	600.09	599.85	600.06	600.14	600.54	600.63	600.96	600.87	600.75	600.49	600.46	600.33
4	600.11	599.86	599.97	600.11	600.50	600.69	600.93	600.84	600.70	600.51	600.49	600.26
5	600.17	599.91	599.97	600.06	600.47	600.64	600.92	600.90	600.73	600.45	600.38	600.28
6	600.07	599.90	599.94	600.22	600.51	600.62	600.93	600.96	600.76	600.34	600.40	600.34
7	600.10	599.95	599.94	600.23	600.55	600.71	600.95	600.91	600.69	600.38	600.46	600.19
8	600.09	599.87	599.99	600.19	600.57	600.68	600.91	600.89	600.60	600.44	600.30	600.18
9	599.99	599.87	599.97	600.22	600.51	600.69	600.89	600.89	600.68	600.52	600.39	600.14
10	600.05	599.83	599.96	600.26	600.51	600.67	600.89	600.88	600.69	600.51	600.32	600.14
11	600.04	599.76	599.94	600.21	600.48	600.71	600.92	600.88	600.62	600.46	600.40	600.19
12	600.12	599.92	599.89	600.30	600.48	600.74	600.91	600.86	600.61	600.52	600.41	600.22
13	600.11	599.94	599.90	600.25	600.51	600.81	600.86	600.94	600.59	600.55	600.45	600.14
14	600.07	599.98	599.86	600.15	600.52	600.84	600.88	600.88	600.53	600.52	600.46	600.13
15	600.09	600.00	599.90	600.28	600.52	600.81	600.88	600.80	600.52	600.45	600.46	600.12
16	600.02	599.95	599.85	600.28	600.53	600.78	600.88	600.81	600.53	600.53	600.41	600.10
17	600.03	599.95	599.81	600.24	600.49	600.91	600.88	600.84	600.55	600.58	600.30	600.06
18	600.04	599.94	599.85	600.29	600.48	600.79	600.87	600.83	600.50	600.26	600.32	600.06
19	600.08	599.94	599.83	600.25	600.51	600.83	600.89	600.83	600.46	600.54	600.32	600.06
20	600.09	599.94	599.83	600.26	600.50	600.86	600.86	600.82	600.48	600.51	600.24	600.15
21	599.96	599.98	599.88	600.36	600.51	600.81	600.83	600.81	600.54	600.52	600.25	600.08
22	599.99	600.02	599.93	600.40	600.56	600.78	600.85	600.83	600.53	600.50	600.30	600.10
23	600.00	599.95	599.87	600.35	600.57	600.87	600.89	600.78	600.57	600.42	600.35	600.06
24	600.13	599.91	599.87	600.29	600.60	600.91	600.92	600.87	600.46	600.59	600.32	600.03
25	600.11	599.97	599.96	600.34	600.53	600.83	600.85	600.84	600.55	600.45	600.38	600.07
26	599.97	600.02	599.90	600.39	600.52	600.88	600.82	600.80	600.51	600.53	600.41	600.16
27	599.97	600.08	599.90	600.40	600.54	600.94	600.87	600.79	600.17	600.47	600.10	600.13
28	599.96	599.93	599.99	600.38	600.55	600.95	600.86	600.81	600.36	600.54	600.24	600.01
29	599.94		600.00	600.39	600.54	600.92	600.85	600.80	600.43	600.60	600.29	600.04
30	599.98		599.98	600.38	600.56	600.93	600.87	600.77	600.51	600.64	600.32	600.09
31	600.05		600.14		600.56		600.86	600.85		600.48		600.05
MEAN	600.05	599.93	599.93	600.26	600.52	600.78	600.89	600.85	600.57	600.49	600.36	600.14
MAX.	600.51	600.25	600.39	600.61	600.87	601.15	601.11	601.17	600.93	600.84	600.68	600.66
	1000/25	0200/01	1500/29	0800/28	1400/02	2000/17	2100/24	0400/06	1500/26	1800/17	0100/26	1800/06
MIN.	599.73	599.64	599.63	599.80	600.20	600.42	600.61	600.64	599.87	599.93	599.97	599.81
	2200/21	0700/11	2000/17	0900/05	0900/02	0100/08	1600/25	1200/01	1100/27	1100/18	1100/27	2400/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 600.40

Water Level Stages for Lake Ontario at Oswego

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Feet above
IGLD (1955)
Chart Datum 242.80

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1946	1952	1952	1973	1952	1952	1947	1947	1947	1945	1945	1945
HIGH	246.10	246.46	246.77	247.69	247.95	248.06	247.74	247.45	246.91	246.33	246.18	246.19
MEAN	244.03	244.11	244.38	245.06	245.46	245.58	245.50	245.16	244.73	244.34	244.08	244.00
	1935	1936	1935	1935	1935	1935	1934	1934	1934	1934	1934	1934
LOW	241.67	241.59	242.08	242.38	242.67	242.91	242.75	242.26	241.94	241.72	241.45	241.48

1900 thru 1981 mean 244.70

Water Level Stages for Lake Erie at Cleveland

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Feet above
IGLD (1955)
Chart Datum 568.60

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1973	1973	1973	1973	1973	1973	1973	1973	1973	1973	1972	1972
HIGH	572.39	572.53	572.88	573.30	573.25	573.51	573.34	573.03	572.51	572.14	572.17	572.35
MEAN	569.83	569.81	570.07	570.62	570.93	571.06	571.02	570.83	570.54	570.22	569.94	569.87
	1935	1936	1934	1934	1934	1934	1934	1934	1934	1934	1934	1934
LOW	567.62	567.49	567.65	568.20	568.43	568.46	568.46	568.36	568.23	567.95	567.60	567.53

1900 thru 1981 mean 570.38

Water Level Stages for Lake St. Clair at St. Clair Shores

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Feet above
IGLD (1955)
Chart Datum 571.70

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1974	1974	1973	1973	1974	1973	1973	1973	1973	1973	1972	1972
HIGH	575.37	575.39	575.75	575.91	576.06	576.23	576.20	576.03	575.70	575.35	575.18	575.21
MEAN	572.64	572.37	572.81	573.39	573.69	573.85	573.93	573.81	573.60	573.32	573.01	573.02
	1936	1926	1934	1901	1934	1934	1934	1934	1934	1934	1934	1925
LOW	569.86	569.88	570.41	571.09	571.64	571.74	571.88	571.60	571.36	571.13	570.83	571.05

1900 thru 1981 mean 573.29

Water Level Stages for Lake Huron-Michigan at Harbor Beach

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Feet above
IGLD (1955)
Chart Datum 576.80

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1973	1952	1973	1973	1973	1973	1974	1973	1952	1973	1973	1973
HIGH	579.92	579.91	579.98	580.32	580.60	580.89	581.04	580.99	580.76	580.45	580.20	579.97
MEAN	577.80	577.76	577.81	578.07	578.39	578.61	578.75	578.70	578.54	578.33	578.11	577.94
	1965	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964
LOW	575.39	575.44	575.35	575.36	575.79	575.90	575.96	575.97	575.94	575.77	575.57	575.40

1900 thru 1981 mean 578.23

Water Level Stages for Lake Superior at Marquette

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Feet above
IGLD (1955)
Chart Datum 600.00

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1975	1975	1975	1951	1951	1951	1950	1950	1916	1951	1974	1974
HIGH	601.33	601.18	600.97	601.14	601.53	601.64	601.89	602.02	601.93	601.93	601.81	601.53
MEAN	600.35	600.14	600.01	600.05	600.40	600.68	600.90	601.00	601.03	600.97	600.82	600.59
	1926	1926	1926	1926	1926	1926	1926	1926	1926	1925	1925	1925
LOW	598.58	598.37	598.32	598.23	598.30	598.63	598.99	599.15	599.46	599.49	599.17	598.94

1900 thru 1981 mean 600.58

ANNUAL SUMMARY OF LEVELS, 1981

Station 1030: Ogdensburg, New York on St. Lawrence River

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	74.59	Jul	Monthly mean elevation:	74.07	Jan
Daily mean elevation:	74.67	26 Jun	Daily mean elevation:	73.94	10 Feb
Instant/hourly elevation:	74.77	0700/26 Jun	Instant/hourly elevation:	73.88	2200/10 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.22	2 Jan
74.41	28 Feb
74.44	2 Mar
74.44	26 Apr
74.55	13 May
74.67	26 Jun
74.66	9 Jul
74.59	12 Aug
74.56	10 Sep
74.48	7 Oct
74.39	27 Nov
74.30	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
73.99	29 Jan
73.94	10 Feb
74.27	5 Mar
74.20	12 Apr
74.37	6 May
74.51	3 Jun
74.47	28 Jul
74.41	28 Aug
74.31	17 Sep
74.18	22 Oct
74.19	26 Nov
73.97	27 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
74.65						1	2						74.65	3
74.60						7	9						74.60	19
74.55						7	15	10	1				74.55	52
74.50					8	12	4	11	1				74.50	88
74.45					11		1	5	6	1			74.45	112
74.40		1	4	5	4			5	13	1			74.40	145
74.35		1	10	9	8				6	5	2		74.35	186
74.30		2	10	13					3	4	6		74.30	224
74.25		1	7	1						12	12	2	74.25	259
74.20	1			1						7	6	4	74.20	278
74.15	2	3		1						1	4	11	74.15	300
74.10	8											6	74.10	314
74.05	3	2										3	74.05	322
74.00	12	9										4	74.00	347
73.95	5	8										1	73.95	361
73.90		1											73.90	362

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 1030: Ogdensburg, New York on St. Lawrence River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.14	73.98	74.44	74.32	74.37	74.53	74.54	74.57	74.44	74.30	74.31	74.23
2	74.22	74.05	74.44	74.37	74.40	74.51	74.56	74.58	74.45	74.35	74.32	74.30
3	74.14	74.04	74.37	74.34	74.40	74.51	74.59	74.57	74.44	74.36	74.30	74.27
4	74.17	74.03	74.33	74.34	74.39	74.54	74.61	74.55	74.43	74.39	74.30	74.24
5	74.14	74.01	74.27	74.39	74.40	74.55	74.60	74.55	74.44	74.34	74.29	74.21
6	74.13	74.00	74.35	74.37	74.37	74.58	74.63	74.55	74.44	74.39	74.34	74.20
7	74.19	73.97	74.36	74.34	74.41	74.55	74.63	74.51	74.44	74.48	74.32	74.19
8	74.15	73.99	74.35	74.32	74.42	74.54	74.66	74.49	74.50	74.37	74.33	74.15
9	74.12	74.02	74.37	74.34	74.42	74.58	74.66	74.56	74.49	74.33	74.30	74.18
10	74.14	73.94	74.38	74.33	74.38	74.57	74.65	74.56	74.56	74.30	74.27	74.17
11	74.14	74.04	74.36	74.32	74.40	74.59	74.65	74.58	74.50	74.28	74.30	74.18
12	74.10	74.05	74.38	74.20	74.50	74.56	74.63	74.59	74.50	74.25	74.25	74.16
13	74.05	73.99	74.42	74.25	74.55	74.54	74.63	74.57	74.51	74.26	74.29	74.18
14	74.03	73.99	74.37	74.43	74.50	74.54	74.60	74.54	74.48	74.27	74.24	74.17
15	74.01	73.98	74.41	74.34	74.44	74.55	74.60	74.56	74.45	74.29	74.19	74.15
16	74.02	74.00	74.32	74.41	74.49	74.58*	74.62	74.56	74.37	74.29	74.19	74.19
17	74.04	74.03	74.38	74.35	74.48	/	74.61	74.54	74.31	74.26	74.24	74.13
18	74.07	74.05	74.37	74.37	74.51	/	74.59	74.54	74.41	74.35	74.28	74.10
19	74.08	74.06	74.33	74.36	74.52	/	74.57	74.54	74.44	74.41	74.26	74.11
20	74.03	74.08	74.30	74.33	74.51	74.52*	74.58	74.51	74.42	74.37	74.19	74.14
21	74.02	74.16	74.31	74.34	74.52	74.54	74.58	74.52	74.40	74.28	74.30	74.18
22	74.05	74.17	74.30	74.33	74.49	74.61	74.57	74.50	74.33	74.18	74.33	74.15
23	74.04	74.19	74.30	74.29	74.47	74.64	74.56	74.52	74.33	74.25	74.29	74.07
24	74.02	74.26	74.31	74.37	74.50	74.61	74.55	74.50	74.36	74.28	74.25	74.22
25	73.99	74.31	74.30	74.40	74.49	74.65	74.57	74.43	74.39	74.26	74.24	74.17
26	74.03	74.34	74.30	74.44	74.51	74.67	74.58	74.46	74.37	74.23	74.19	74.05
27	74.04	74.38	74.29	74.43	74.48	74.64	74.55	74.46	74.45	74.22	74.39	73.97
28	73.99	74.41	74.31	74.40	74.48	74.61	74.47	74.41	74.47	74.21	74.37	74.08
29	73.99		74.36	74.40	74.50	74.62	74.51	74.43	74.42	74.22	74.28	74.05
30	74.00		74.33	74.43	74.54	74.60	74.56	74.45	74.38	74.24	74.25	74.05
31	74.00		74.34		74.54		74.58	74.44		74.26		74.02
MEAN	74.07	74.09	74.35	74.36	74.46	74.58	74.59	74.52	74.43	74.30	74.28	74.15
MAX.	74.32	74.47	74.51	74.62	74.61	74.77	74.70	74.62	74.65	74.67	74.48	74.35
	1800/02	2300/28	1800/17	1700/14	1500/13	0700/26	1500/08	1700/12	1000/10	2000/06	1100/27	0100/03
MIN.	73.95	73.88	74.22	74.16	74.30	74.47	74.34	74.39	74.26	74.15	74.10	73.90
	0200/29	2200/10	0900/16	1400/12	2200/10	2400/01	1900/28	0500/29	1700/17	0300/28	0900/20	1500/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 74.35

ANNUAL SUMMARY OF LEVELS, 1981

Station 2000: Cape Vincent, New York on St. Lawrence River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	74.85	Jul	74.31	Jan
Daily mean elevation:	74.88	11 Jul	74.22	10 Feb
Instant/hourly elevation:	74.97	1700/22 Jun	74.17	1400/10 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.39	7 Jan
74.55	28 Feb
74.62	17 Mar
74.62	30 Apr
74.75	31 May
74.86	26 Jun
74.88	11 Jul
74.86	16 Aug
74.85	10 Sep
74.78	8 Oct
74.66	26 Nov
74.64	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.25	31 Jan
74.22	10 Feb
74.54	29 Mar
74.51	12 Apr
74.60	10 May
74.72	2 Jun
74.79	28 Jul
74.75	28 Aug
74.70	30 Sep
74.55	19 Oct
74.50	21 Nov
74.40	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
74.85						2	10	4					74.85	16
74.80						7	20	12	4				74.80	59
74.75						16	1	7	14	2			74.75	99
74.70					9	5		1	11	3			74.70	128
74.65					11				1	2	1		74.65	143
74.60			2	6	9					6	15	1	74.60	182
74.55			18	15	2					8	8	2	74.55	235
74.50		2	11	9						1	2	5	74.50	265
74.45		2									1	13	74.45	281
74.40		2										9	74.40	292
74.35	5	2										1	74.35	300
74.30	10	2											74.30	312
74.25	14	13											74.25	339
74.20	2	5											74.20	346

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2000: Cape Vincent, New York on St. Lawrence River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.30	74.25	74.57	74.55	74.60	74.73	74.83	74.83	74.76	74.67	74.59	74.64
2	74.37	74.31	74.59	74.58	74.62	74.72	74.83	74.83*	74.77	74.72	74.60	74.58
3	74.31	74.28	74.57	74.56	74.61	74.73	74.84	/	74.76	74.74	74.61	74.60
4	74.35	74.30	74.55	74.56	74.61	74.76	74.85	/	74.76	74.75	74.62	74.55
5	74.35	74.26	74.54	74.58	74.61	74.75	74.85	/	74.78	74.77	74.62	74.53
6	74.36	74.27	74.59	74.59	74.62	74.77	74.86	/	74.79	74.59	74.59*	74.53
7	74.39	74.23	74.58	74.55	74.63	74.76	74.86	/	74.78	74.62*	/	74.51
8	74.35	74.26	74.59	74.55	74.62	74.74	74.87*	/	74.82	74.78*	/	74.47
9	74.36	74.26	74.60	74.57	74.62	74.78	74.87	/	74.80	/	/	74.47
10	74.36	74.22	74.59	74.55	74.60	74.77	74.88	74.83*	74.85	/	74.61*	74.48
11	74.33	74.30	74.60	74.55	74.64	74.78	74.88	74.86	74.80	/	74.61	74.49
12	74.32	74.27	74.59	74.51	74.68	74.77	74.87	74.86	74.83	/	74.62	74.49
13	74.30	74.26	74.62	74.52	74.69	74.76	74.87	74.85	74.82	/	74.60	74.50
14	74.30	74.26	74.59	74.61	74.67	74.77	74.85	74.83	74.80	74.62*	74.62	74.50
15	74.29	74.24	74.60	74.56	74.67	74.77	74.86	74.86	74.78	74.62	74.65	74.50
16	74.30	74.24*	74.57	74.57	74.69	74.79	74.86	74.86	74.74	74.61*	74.62	74.48
17	74.32	74.29*	74.62	74.56	74.69	74.80	74.85	74.83	74.72	/	74.61	74.54
18	74.33	74.29	74.58	74.60	74.70	74.79	74.85	74.83	74.76	/	74.58	74.48
19	74.33	74.30	74.57	74.57	74.70	74.79	74.83	74.83	74.76	74.55*	74.62	74.44
20	74.28	74.33	74.55	74.57	74.70	74.79	74.85	74.82	74.74	74.59	74.58	74.44
21	74.29	74.39	74.57	74.56	74.71	74.79	74.85	74.82	74.73	74.65	74.50	74.41
22	74.32	74.38	74.55	74.55	74.71	74.85	74.85	74.81	74.71	74.68	74.51	74.44
23	74.29	74.41	74.55	74.55	74.70	74.85	74.83	74.82	74.71	74.65*	74.59	74.45
24	74.28	74.45	74.56	74.59	74.71	74.83	74.82	74.80	74.72	/	74.62	74.40
25	74.27	74.50	74.55	74.61	74.71	74.86	74.83	74.77	74.72	/	74.62	74.44
26	74.29	74.50	74.54	74.61	74.71	74.86	74.83	74.77	74.71	74.57*	74.66	74.49
27	74.28	74.51	74.55	74.61	74.70	74.85	74.82	74.77	74.75	74.57	74.52	74.48
28	74.25	74.55	74.54	74.59	74.71	74.83	74.79	74.75	74.76	74.56	74.58	74.45
29	74.26		74.54	74.62	74.72	74.84	74.84	74.76	74.72	74.57	74.63	74.44
30	74.26		74.55	74.62	74.74	74.84	74.83	74.76	74.70	74.59	74.64	74.45
31	74.25		74.56		74.75		74.83	74.76		74.60		74.47
MEAN	74.31	74.33	74.57	74.57	74.67	74.79	74.85	74.81	74.76	74.64	74.60	74.49
MAX.	74.48	74.62	74.75	74.77	74.78	74.97	74.92	74.91	74.92	74.81	74.70	74.71
	1500/02	2000/28	1400/17	1400/14	1800/31	1700/22	1700/09	2100/15	1300/10	0900/06	1500/26	0800/01
MIN.	74.22	74.17	74.50	74.47	74.57	74.69	74.70	74.73	74.65	74.26	74.45	74.31
	2300/31	1400/10	0800/30	0100/12	1900/10	0200/02	1600/28	1700/30	1400/23	1700/06	0700/27	2400/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 74.62

ANNUAL SUMMARY OF LEVELS, 1981

Station 2030: Oswego, New York on Lake Ontario

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	74.85	Jul	74.35	Feb
Daily mean elevation:	74.90	16 Aug	74.22	10 Feb
Instant/hourly elevation:	74.93	2400/10 Jul	74.15	2300/10 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.46	2 Jan
74.55	28 Feb
74.64	17 Mar
74.63	30 Apr
74.76	31 May
74.86	26 Jun
74.89	14 Jul
74.90	16 Aug
74.84	9 Sep
74.79	7 Oct
74.69	7 Nov
74.60	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.30	31 Jan
74.22	10 Feb
74.55	29 Mar
74.54	13 Apr
74.62	9 May
74.74	8 Jun
74.80	28 Jul
74.73	31 Aug
74.71	26 Sep
74.56	25 Oct
74.57	26 Nov
74.38	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
74.85						1	11	6					74.85	18
74.80						8	19	16	6				74.80	67
74.75					1	16	1	6	11	1			74.75	103
74.70					14	5		3	13	3			74.70	141
74.65					5					8	2		74.65	156
74.60			15	10	11					11	18		74.60	221
74.55			15	17						8	10	8	74.55	279
74.50		4	1	3								6	74.50	293
74.45	1	1										9	74.45	304
74.40	5	3										7	74.40	319
74.35	11	1										1	74.35	332
74.30	13	6											74.30	351
74.25	1	11											74.25	363
74.20		2											74.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2030: Oswego, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.37	74.25	74.59	74.55	74.64	74.75	74.84	74.83	74.72	74.69	74.60	74.53
2	74.46	74.34	74.61	74.58	74.64	74.74	74.83	74.82	74.71	74.74	74.62	74.57
3	74.39	74.34	74.62	74.56	74.63	74.75	74.84	74.84	74.73	74.74	74.62	74.57
4	74.42	74.32	74.58	74.55	74.63	74.76	74.84	74.83	74.73	74.70	74.61	74.57
5	74.41	74.30	74.60	74.58	74.63	74.75	74.84	74.86	74.76	74.68	74.60	74.58
6	74.37	74.29	74.62	74.61	74.65	74.77	74.85	74.85	74.77	74.69	74.66	74.60
7	74.45	74.27	74.63	74.57	74.64	74.76	74.85	74.83	74.77	74.79	74.69	74.54
8	74.42	74.30	74.61	74.56	74.63	74.74	74.86	74.83	74.81	74.73	74.63	74.57
9	74.38	74.31	74.62	74.58	74.62	74.77	74.87	74.83	74.84	74.69	74.64	74.59
10	74.42	74.22	74.61	74.57	74.63	74.77	74.89	74.83	74.81	74.67	74.61	74.57
11	74.40	74.30	74.62	74.57	74.65	74.78	74.88	74.85	74.81	74.66	74.63	74.55
12	74.37	74.35	74.61	74.56	74.68	74.77	74.86	74.86	74.83	74.65	74.61	74.53
13	74.36	74.29	74.63	74.54	74.68	74.76	74.87	74.86	74.80	74.63	74.59	74.51
14	74.35	74.30	74.64	74.58	74.67	74.77	74.89	74.84	74.81	74.62	74.59	74.48
15	74.35	74.28	74.61	74.59	74.69	74.77	74.88	74.85	74.80	74.62	74.59	74.50
16	74.35	74.28	74.63	74.56	74.70	74.78	74.86	74.90	74.77	74.65	74.60	74.54
17	74.36	74.29	74.64	74.56	74.71	74.80	74.85	74.89	74.75	74.61	74.61	74.49
18	74.38	74.30	74.62	74.61	74.71	74.79	74.84	74.86	74.75	74.60	74.64	74.47
19	74.38	74.32	74.59	74.58	74.71	74.80	74.83	74.84	74.75	74.67	74.61	74.50
20	74.34	74.37	74.59	74.61	74.71	74.80	74.83	74.83	74.76	74.60	74.59	74.49
21	74.33	74.41	74.60	74.59	74.71	74.80	74.86	74.82	74.75	74.61	74.65	74.42
22	74.36	74.41	74.58	74.58	74.72	74.83	74.86	74.80	74.77	74.61	74.65	74.43
23	74.35	74.42	74.58	74.57	74.72	74.85	74.85	74.80	74.79	74.62	74.63	74.47
24	74.33	74.47	74.58	74.62	74.72	74.83	74.82	74.82	74.79	74.61	74.61	74.48
25	74.31	74.52	74.58	74.63	74.72	74.84	74.81	74.79	74.75	74.56	74.60	74.45
26	74.31	74.54	74.57	74.62	74.72	74.86	74.81	74.78	74.71	74.57	74.57	74.43
27	74.32	74.54	74.58	74.62	74.72	74.85	74.81	74.77	74.73	74.59	74.64	74.41
28	74.32	74.55	74.56	74.61	74.74	74.83	74.80	74.76	74.79	74.63	74.65	74.44
29	74.31		74.55	74.63	74.74	74.83	74.85	74.74	74.75	74.60	74.62	74.46
30	74.32		74.56	74.63	74.75	74.84	74.84	74.73	74.72	74.59	74.58	74.43
31	74.30		74.57		74.76		74.84	74.73		74.58		74.38
MEAN	74.36	74.35	74.60	74.59	74.69	74.79	74.85	74.82	74.77	74.65	74.62	74.50
MAX.	74.54	74.62	74.74	74.69	74.80	74.91	74.93	74.92	74.88	74.83	74.74	74.65
	1400/02	2400/28	1600/17	1900/14	0300/31	2200/22	2400/10	1100/16	1500/08	0400/07	0400/07	1600/06
MIN.	74.26	74.15	74.51	74.46	74.59	74.63	74.72	74.70	74.67	74.52	74.47	74.27
	1900/25	2300/10	0700/30	0500/14	2300/03	2400/08	1300/28	0400/30	1900/26	0800/18	1000/20	0600/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 74.63

ANNUAL SUMMARY OF LEVELS, 1981
Station 2058: Rochester, New York on Lake Ontario

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	74.86	Jul	74.36	Feb
Daily mean elevation:	74.90	16 Aug	74.27	10 Feb
Instant/hourly elevation:	74.94	1600/11 Aug	74.23	1500/2 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.43	4 Jan
74.56	28 Feb
74.62	17 Mar
74.64	30 Apr
74.76	31 May
74.86	28 Jun
74.90	14 Jul
74.90	16 Aug
74.86	9 Sep
74.72	8 Oct
74.66	7 Nov
74.58	9 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.31	31 Jan
74.27	10 Feb
74.57	30 Mar
74.56	13 Apr
74.64	5 May
74.75	3 Jun
74.82	27 Jul
74.75	30 Aug
74.73	30 Sep
74.58	25 Oct
74.59	30 Nov
74.41	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
74.85						3	20	11	1				74.85	35
74.80						10	11	14	9				74.80	79
74.75					2	16		5	14				74.75	116
74.70					15	1		1	6	4			74.70	143
74.65					5					7	1		74.65	156
74.60			14	8	9					17	23		74.60	227
74.55		1	17	22						3	6	10	74.55	286
74.50		3										7	74.50	296
74.45		1										4	74.45	301
74.40	4	3										10	74.40	318
74.35	14	1											74.35	333
74.30	13	4											74.30	350
74.25		15											74.25	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2058: Rochester, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.39	74.29	74.58	74.57	74.64	74.76	74.87	74.86	74.76	74.70	74.62	74.56
2	74.42	74.30	74.60	74.58	74.64	74.76	74.86	74.85	74.77	74.72	74.62	74.57
3	74.42	74.30	74.61	74.58	74.65	74.75	74.86	74.85	74.78	74.72	74.63	74.58
4	74.43	74.30	74.60	74.59	74.64	74.76	74.86	74.85	74.78	74.70	74.62	74.57
5	74.40	74.31	74.61	74.58	74.64	74.76	74.86	74.86	74.79	74.69	74.62	74.58
6	74.38	74.29	74.61	74.59	74.66	74.76	74.86	74.86	74.82	74.69	74.64	74.58
7	74.40	74.29	74.62	74.58	74.65	74.78	74.86	74.84	74.83	74.72	74.66	74.56
8	74.41	74.28	74.62	74.57	74.65	74.78	74.87	74.84	74.84	74.72	74.64	74.57
9	74.38	74.28	74.61	74.58	74.65	74.78	74.88	74.84	74.86	74.70	74.64	74.58
10	74.40	74.27	74.62	74.58	74.65	74.78	74.89	74.85	74.83	74.68	74.62	74.57
11	74.40	74.29	74.62	74.57	74.66	74.79	74.89	74.87	74.83	74.66	74.62	74.55
12	74.38	74.30	74.62	74.57	74.68	74.79	74.88	74.88	74.82	74.65	74.62	74.54
13	74.37	74.30	74.62	74.56	74.68	74.79	74.87	74.88	74.81	74.64	74.60	74.52
14	74.37	74.30	74.62	74.57	74.69	74.78	74.90	74.86	74.82	74.63	74.60	74.51
15	74.36	74.30	74.60	74.60	74.71	74.79	74.87	74.86	74.81	74.62	74.60	74.51
16	74.37	74.30	74.62	74.58	74.71	74.80	74.87	74.90	74.80	74.64	74.61	74.51
17	74.36	74.31	74.62	74.58	74.71	74.81	74.86	74.89	74.78	74.63	74.62	74.51
18	74.34	74.31	74.61	74.59	74.71	74.81	74.85	74.87	74.76	74.60	74.62	74.49
19	74.35	74.34	74.60	74.60	74.71	74.80	74.85	74.85	74.75	74.63	74.62	74.50
20	74.36	74.39	74.60	74.61	74.72	74.82	74.84	74.84	74.76	74.61	74.62	74.48
21	74.33	74.42	74.60	74.60	74.72	74.81	74.87	74.83	74.77	74.62	74.64	74.44
22	74.34	74.43	74.59	74.60	74.73	74.82	74.88	74.82	74.78	74.61	74.63	74.45
23	74.34	74.45	74.58	74.60	74.73	74.85	74.86	74.81	74.79	74.61	74.62	74.47
24	74.33	74.48	74.58	74.61	74.72	74.85	74.84	74.83	74.77	74.61	74.62	74.45
25	74.32	74.51	74.58	74.62	74.72	74.85	74.82	74.82	74.75	74.58	74.62	74.45
26	74.31	74.54	74.58	74.62	74.73	74.86	74.82	74.79	74.74	74.59	74.59	74.45
27	74.32	74.55	74.58	74.62	74.74	74.86	74.82	74.79	74.73	74.61	74.59	74.43
28	74.33	74.56	74.58	74.64	74.76	74.86	74.83	74.78	74.76	74.63	74.62	74.44
29	74.32		74.57	74.64	74.75	74.84	74.85	74.76	74.75	74.62	74.62	74.45
30	74.32		74.57	74.64	74.75	74.85	74.85	74.75	74.73	74.62	74.59	74.43
31	74.31		74.58		74.76		74.84	74.76		74.62		74.41
MEAN	74.36	74.36	74.60	74.59	74.70	74.80	74.86	74.84	74.79	74.65	74.62	74.51
MAX.	74.46	74.62	74.66	74.75	74.80	74.92	74.93	74.94	74.89	74.79	74.78	74.68
	1400/02	0700/28	1100/17	1900/28	1200/31	1500/24	2200/09	1600/11	1700/09	1600/01	0900/20	0300/01
MIN.	74.27	74.23	74.53	74.44	74.58	74.69	74.76	74.74	74.69	74.52	74.53	74.37
	1700/31	1500/02	1400/30	0900/14	1500/03	1700/10	0100/28	2200/30	1300/27	0800/18	1900/20	1500/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 74.64

ANNUAL SUMMARY OF LEVELS, 1981
Station 2076: Olcott, New York on Lake Ontario

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	74.86	Jul	74.37	Feb
Daily mean elevation:	74.89	16 Aug	74.27	9 Feb
Instant/hourly elevation:	74.94	1500/28 Jul	74.22	1700/11 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.43	3 Jan
74.57	28 Feb
74.62	20 Mar
74.65	30 Apr
74.77	30 May
74.87	30 Jun
74.88	31 Jul
74.89	16 Aug
74.86	5 Sep
74.73	1 Oct
74.65	5 Nov
74.63	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.31	31 Jan
74.27	9 Feb
74.57	1 Mar
74.57	14 Apr
74.65	5 May
74.77	4 Jun
74.83	27 Jul
74.79	30 Aug
74.72	30 Sep
74.61	24 Oct
74.58	27 Nov
74.44	30 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
74.85						7	24	19	1				74.85	51
74.80						9	7	7	12				74.80	86
74.75					4	14		5	12				74.75	121
74.70					13				5	2			74.70	141
74.65					10					10			74.65	161
74.60			10	12	4					19	28	1	74.60	235
74.55		1	20	18							2	7	74.55	283
74.50		3										8	74.50	294
74.45		3										12	74.45	309
74.40	3	1										3	74.40	316
74.35	15	1											74.35	332
74.30	13	10											74.30	355
74.25		9											74.25	364

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 2076: Olcott, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.41	74.32	74.57	74.60	74.65	74.78	74.88	74.88	74.80	74.73	74.65	74.63
2	74.39	74.28	74.58	74.58	74.65	74.78	74.88	74.87	74.81	74.71	74.64	74.58
3	74.43	74.29	74.59	74.60	74.65	74.78	74.87	74.86	74.81	74.70	74.64	74.59
4	74.41	74.29	74.62	74.61	74.66	74.77	74.87	74.86	74.83	74.69	74.64	74.59
5	74.40	74.30	74.62	74.59	74.65	74.78	74.87	74.86	74.86	74.70	74.65	74.58
6	74.40	74.29	74.60	74.58	74.66	74.78	74.87	74.86	74.85	74.68	74.63	74.56
7	74.38	74.31	74.60	74.59	74.66	74.79	74.87	74.86	74.85	74.67	74.63	74.56
8	74.39	74.28	74.61	74.59	74.67	74.80	74.88	74.86	74.85	74.69	74.64	74.57
9	74.38	74.27	74.61	74.58	74.67	74.79	74.88	74.86	74.84	74.69	74.63	74.55
10	74.39	74.31	74.62	74.59	74.67	74.79	74.88	74.87	74.83	74.68	74.64	74.55
11	74.39	74.28	74.62	74.59	74.69	74.79	74.87	74.87	74.84	74.67	74.63	74.55
12	74.40	74.29	74.62	74.60	74.69	74.79	74.87	74.88	74.81	74.66	74.64	74.54
13	74.40	74.31*	74.60	74.59	74.69	74.80	74.86	74.88	74.81	74.65	74.62	74.53
14	74.40	74.32*	74.60	74.57	74.70	74.80	74.87	74.87	74.82	74.65	74.62	74.53
15	74.40	74.32	74.60	74.58	74.71	74.82	74.86	74.88	74.80	74.64	74.61	74.52
16	74.38	74.32	74.62	74.58	74.71	74.82	74.85	74.89	74.80	74.63	74.62	74.50
17	74.36	74.33	74.60	74.60	74.72	74.81	74.86	74.86	74.78	74.65	74.62	74.52
18	74.35	74.34	74.61*	74.58	74.71	74.81	74.86	74.87	74.77	74.62	74.61	74.50
19	74.34	74.35	74.60*	74.62	74.72	74.82	74.87	74.86	74.77	74.61	74.63	74.49
20	74.37	74.39	74.62*	74.60	74.73	74.81	74.86	74.84	74.79	74.61	74.64	74.48
21	74.35	74.42	/	74.61	74.73	74.82	74.87	74.84	74.77	74.62	74.62	74.47
22	74.33	74.47	74.60*	74.61	74.74	74.84	74.86	74.84	74.78	74.62	74.63	74.47
23	74.34	74.49	74.59	74.63	74.75	74.86	74.85	74.82	74.76	74.61	74.63	74.47
24	74.34	74.51	74.58*	74.61	74.74	74.87	74.85	74.84	74.76	74.61	74.64	74.44
25	74.34	74.50	74.58	74.62	74.75	74.85	74.83	74.82	74.75	74.62	74.62	74.46
26	74.32	74.53	74.60	74.63	74.75	74.86	74.83	74.82	74.77	74.62	74.64	74.47
27	74.33	74.55	74.58	74.63	74.75	74.86	74.83	74.80	74.74	74.63	74.58	74.47
28	74.33	74.57	74.58	74.65	74.77	74.86	74.87	74.79	74.74	74.63	74.59	74.46
29	74.32		74.58	74.64	74.77	74.87	74.84	74.79	74.73	74.65	74.61	74.44
30	74.31		74.58	74.65	74.77	74.87	74.87	74.79	74.72	74.65	74.61	74.44
31	74.31		74.59		74.76		74.88	74.80		74.65		74.46
MEAN	74.37	74.37	74.60	74.60	74.71	74.82	74.86	74.85	74.79	74.65	74.63	74.52
MAX.	74.45	74.63	74.66	74.70	74.80	74.94	74.94	74.92	74.88	74.82	74.74	74.69
	0200/03	0900/28	0800/04	1600/28	0900/30	2400/08	1500/28	1400/16	1000/07	1200/01	0600/20	0700/01
MIN.	74.26	74.22	74.52	74.50	74.62	74.72	74.79	74.76	74.67	74.54	74.53	74.38
	1800/26	1700/11	0100/31	1300/14	0800/02	0900/06	0900/27	2100/30	1700/30	2300/18	0600/27	0900/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 74.65

ANNUAL SUMMARY OF LEVELS, 1981

Station 3007: Ashland Avenue, Niagara Falls, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	98.75	Aug	96.60	Jan
Daily mean elevation:	99.31	13 Aug	96.12	24 Jan
Instant/hourly elevation:	100.39	1700/6 Oct	95.50	1100/3 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
97.70	4 Jan
97.39	21 Feb
97.36	17 Mar
98.70	25 Apr
98.69	12 May
98.98	25 Jun
98.57	9 Jul
99.31	13 Aug
99.13	10 Sep
99.27	19 Oct
98.23	21 Nov
97.76	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
96.12	24 Jan
96.13	15 Feb
96.51	22 Mar
97.96	6 Apr
98.12	27 May
98.14	20 Jun
97.97	15 Jul
98.02	28 Aug
97.79	16 Sep
97.77	17 Oct
96.59	24 Nov
96.92	1 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
99.30								1					99.30	1
99.15								5		3			99.15	9
99.00								4	1				99.00	14
98.85						3		4	1	1			98.85	23
98.70						3		3	4	2			98.70	35
98.55				1	2	6	1	3	1	1			98.55	50
98.40				1	3	8	6	4	9	4			98.40	85
98.25				5	7	6	7	3	6	1			98.25	120
98.10				11	19	4	8	2	2	7	1		98.10	174
97.95				12			9	2	4	6	3		97.95	210
97.80									1	4	3		97.80	218
97.65	1								1	2	3	3	97.65	228
97.50	1										3	3	97.50	235
97.35	1	2	1								4	7	97.35	250
97.20	1	4	1								5	2	97.20	263
97.05	2	6	5								2	1	97.05	279
96.90	1	2	14								4	1	96.90	301
96.75	2	2	6										96.75	311
96.60	5	5	2								1		96.60	324
96.45	1		2								1		96.45	328
96.30	4	5											96.30	337
96.15	5	1											96.15	343
96.00	7	1											96.00	351
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3007: Ashland Avenue, Niagara Falls, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	96.41	96.38	96.98	98.13	98.16	98.34	98.18	98.12	98.30	98.49	97.32	96.92
2	97.31	97.03	97.32	98.10	98.12	98.21	98.25	98.71	98.55	98.84	97.01	97.76
3	97.37	97.12	97.16	98.10	98.15	98.18	98.26	98.53	98.38	98.21	97.09	97.70
4	97.70	97.21	96.95	98.13	98.16	98.31	98.24	98.62	98.45	98.42*	97.13*	97.37
5	97.55	97.16	96.77	98.09	98.18	98.22	98.22	98.76	98.44	98.59	96.95	97.45
6	96.99	96.73	96.99	97.96	98.20	98.32	98.44	98.42	98.52	98.75	97.97	97.47
7	97.13	96.38	96.79	98.03	98.17	98.47	98.44	98.38	98.39	99.27*	97.90*	97.59
8	97.19	96.45	96.51	98.08	98.18	98.35	98.39	98.44	98.80	98.44	97.54	97.66
9	96.81	96.76	97.06	98.13	98.15	98.50	98.57	98.88	98.74	98.08*	97.49	97.60
10	96.80	96.75	97.13	98.09	98.19	98.51	98.35	99.14	99.13	97.79*	97.40	97.51*
11	96.59	96.73	97.05	98.12	98.35	98.32	98.16	99.26	98.47	97.89	97.76	97.40*
12	96.70	97.32	97.01	98.08	98.69	98.49	98.07	99.27	98.47	97.96	97.34*	97.06
13	96.74	96.71	96.98	98.02	98.44	98.28	98.38	99.31	98.30	97.82*	97.50*	97.31
14	96.64	96.44	96.91	98.17	98.26	98.51	98.08	99.26	98.55	98.23*	96.95	97.39
15	96.44	96.13	97.03	98.28	98.14	98.62	97.97	99.25	98.15	98.46	96.70*	97.40
16	96.45	96.21	96.96	98.01	98.33	98.64	98.01	98.96	97.79	98.20	97.28	97.40
17	96.62	96.31	97.36	98.11	98.29	98.62	98.00	98.93	97.96	97.77	97.45	97.27*
18	96.29	96.61	97.07	98.21	98.34	98.55	98.01	99.28	98.00	99.22	97.67	/
19	96.24	97.18	97.04	98.08	98.18	98.49	98.10	99.13	98.72	99.27	97.56	/
20	96.14	97.39	97.08	98.28	98.31	98.14	98.40	98.69	98.70	98.93*	97.95*	/
21	96.14	97.39	96.84	98.18	98.17	98.47	98.19	98.82	98.45	98.14	98.23	/
22	96.74	97.09	96.51	98.12	98.18	98.94	97.98	98.68	98.01	97.90	97.93	/
23	96.15	97.30	96.78	98.04	98.16	98.93	98.11	99.13	98.25	98.25*	97.52*	/
24	96.12	97.24	96.88	98.31	98.48	98.63	98.12	99.02	98.36	98.07	96.59	/
25	96.14	97.18	96.79	98.70	98.61	98.98	98.06	98.51	98.41	97.87	96.96	/
26	96.39	97.08	96.74	98.48	98.28	98.71	98.33	98.89	98.00	98.15*	97.27	/
27	96.20	97.02	96.91	98.29	98.12	98.68	98.29	98.12	98.73	98.03*	98.07*	/
28	96.13	96.87	96.63	98.11	98.14	98.82	98.48	98.02	98.92	98.33	97.96	/
29	96.16		96.94	98.33	98.14	98.77	98.54	98.08	98.37	98.07	97.67*	/
30	96.14		96.91	98.21	98.16	98.63	98.49	98.33	97.93	98.05*	97.30*	/
31	96.16		96.94		98.41		98.49	98.28		98.12		/
MEAN	96.60	96.86	96.94	98.17	98.25	98.52	98.25	98.75	98.41	98.31	97.45	97.43
MAX.	98.23	98.08	97.84	99.72	99.99	100.25	100.07	100.27	100.34	100.39	99.71	98.27
	0100/05	0300/12	1300/17	1800/24	1700/12	1500/22	1300/30	1300/10	1500/19	1700/06	2200/20	2000/02
MIN.	96.08	96.09	96.18	95.79	96.02	96.09	95.79	95.98	95.99	95.88	95.50	96.37
	2300/27	1200/15	0600/26	0200/13	2400/01	2400/30	2400/16	0100/01	2400/30	2300/12	1100/03	0500/01

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 97.83

ANNUAL SUMMARY OF LEVELS, 1981

Station 3009: American Falls, Niagara Falls, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	170.32	Jun	170.19	Jan
Daily mean elevation:	170.52	18 Oct	169.99	1 Nov
Instant/hourly elevation:	170.76	0100/19 Oct	169.75	2200/5 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
170.28	25 Jan
170.31	2 Feb
170.36	11 Mar
170.35	29 Apr
170.35	12 May
170.40	22 Jun
170.40	20 Jul
170.38	23 Aug
170.37	28 Sep
170.52	18 Oct
170.47	21 Nov
170.39	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
170.07	1 Jan
170.05	5 Feb
170.23	21 Mar
170.19	15 Apr
170.26	27 May
170.28	20 Jun
170.25	31 Jul
170.21	10 Aug
170.22	11 Sep
170.08	29 Oct
169.99	1 Nov
170.11	1 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
170.50										1			170.50	1
170.45										1	1		170.45	3
170.40										1			170.40	4
170.35			1			4	2	2	3		2	4	170.35	22
170.30		1	9	8	12	19	7	7	5	9	5	4	170.30	108
170.25	3	18	18	14	19	7	20	19	18	14	5	10	170.25	273
170.20	10	2	3	6			2	3	4	1	8	5	170.20	317
170.15	9	1		2								6	170.15	335
170.10	6	3								2	1	2	170.10	349
170.05	3	2								2	3		170.05	359
170.00		1									4		170.00	364
169.95											1		169.95	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3009: American Falls, Niagara Falls, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	170.07	170.18	170.28	170.25	170.28	170.31	170.31	170.28	170.26	170.27	169.99	170.11
2	170.14	170.31	170.28	170.21	170.29	170.31	170.27	170.30	170.28	170.28	170.05	170.36
3	170.10	170.28	170.30	170.28	170.31	170.32	170.28	170.26	170.24	170.32	170.02	170.38
4	170.15	170.10	170.26	170.31	170.31	170.32	170.31	170.28	170.30	170.30	170.08	170.29
5	170.16	170.05	170.26	170.20	170.31	170.31	170.29	170.33	170.36	170.32	170.05	170.30
6	170.17	170.13	170.33	170.22	170.29	170.31	170.31	170.26	170.30	170.34	170.32	170.30
7	170.18	170.15	170.33	170.27	170.30	170.33	170.27	170.26	170.28	170.47	170.34	170.34
8	170.22	170.26	170.29	170.28	170.30	170.29	170.27	170.27	170.30	170.27	170.22	170.37
9	170.23	170.29	170.34	170.30	170.30	170.33	170.28	170.28	170.26	170.26	170.25	170.35
10	170.21	170.22	170.33	170.30	170.29	170.33	170.26	170.21	170.28	170.27	170.28	170.34
11	170.25	170.26	170.36	170.32	170.32	170.30	170.26	170.32	170.22	170.26	170.26	170.27
12	170.26	170.29	170.35	170.25	170.35	170.29	170.28	170.31	170.29	170.26	170.24	170.16
13	170.22	170.11	170.33	170.28	170.33	170.29	170.27	170.33	170.26	170.29	170.21	170.23
14	170.12	170.10	170.29	170.29	170.27	170.31	170.27	170.32	170.31	170.31	170.24	170.26
15	170.10	170.23	170.35	170.19	170.30	170.34	170.29	170.35	170.24	170.33	170.26	170.26
16	170.15	170.27	170.26	170.29	170.31	170.36	170.29	170.30	170.25	170.29	170.25	170.26
17	170.14	170.28	170.27	170.30	170.28	170.36	170.32	170.24	170.30	170.26	170.31	170.19
18	170.21	170.30	170.28	170.31	170.28	170.34	170.33	170.33	170.31	170.52	170.38	170.18
19	170.24	170.30	170.23	170.29	170.31	170.32	170.34	170.29	170.37	170.41	170.29	170.26
20	170.21	170.28	170.25	170.34	170.32	170.28	170.40	170.29	170.30	170.31	170.30	170.23
21	170.19	170.29	170.23	170.32	170.32	170.30	170.32	170.26	170.30	170.26	170.47	170.34
22	170.23	170.28	170.27	170.28	170.29	170.40	170.28	170.29	170.30	170.25	170.36	170.26
23	170.18	170.30	170.30	170.21	170.26	170.37	170.28	170.38	170.28	170.27	170.21	170.22
24	170.24	170.29	170.29	170.31	170.29	170.32	170.27	170.36	170.31	170.30	170.07	170.39
25	170.28	170.29	170.29	170.30	170.30	170.35	170.30	170.27	170.29	170.31	170.06	170.26
26	170.27	170.29	170.29	170.31	170.28	170.33	170.36	170.30	170.29	170.31	170.01	170.15
27	170.20	170.28	170.30	170.30	170.26	170.32	170.29	170.25	170.31	170.32	170.35	170.23
28	170.15	170.28	170.28	170.23	170.28	170.31	170.27	170.26	170.37	170.13	170.33	170.25
29	170.18		170.31	170.35	170.30	170.32	170.25	170.27	170.31	170.08	170.21	170.17
30	170.18		170.30	170.29	170.33	170.29	170.29	170.29	170.30	170.10	170.15	170.20
31	170.19		170.31		170.34		170.25	170.26		170.12		170.19
MEAN	170.19	170.24	170.29	170.28	170.30	170.32	170.29	170.29	170.29	170.28	170.22	170.26
MAX.	170.33	170.48	170.41	170.54	170.54	170.54	170.57	170.53	170.58	170.76	170.61	170.51
	1100/12	0600/12	1800/12	0700/29	0700/13	0600/25	0600/20	0700/24	0700/28	0100/19	1000/27	2100/24
MIN.	170.01	170.01	170.18	169.75	169.94	169.98	169.92	169.96	169.93	169.90	169.84	170.01
	1400/01	0900/05	0900/21	2200/05	2100/01	2100/14	2100/29	2100/02	2100/11	1900/29	0800/03	1000/01

ANNUAL MEAN: 170.27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL SUMMARY OF LEVELS, 1981

Station 3012: Niagara Intake, Niagara Falls, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	171.18	Jun	Monthly mean elevation:	171.03	Nov
Daily mean elevation:	171.46	18 Oct	Daily mean elevation:	170.75	1 Nov
Instant/hourly elevation:	171.76	1800/18 Oct	Instant/hourly elevation:	170.58	0800/3 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
171.17	2 Jan
171.15	2 Feb
171.17	15 Mar
171.35	24 Apr
171.23	12 May
171.29	22 Jun
171.27	20 Jul
171.28	23 Aug
171.27	28 Sep
171.46	18 Oct
171.36	21 Nov
171.27	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
170.90	15 Jan
170.86	14 Feb
171.01	19 Mar
171.05	12 Apr
171.10	27 May
171.12	20 Jun
171.12	11 Jul
171.10	10 Aug
171.08	11 Sep
170.91	29 Oct
170.75	1 Nov
170.88	1 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
171.45										1			171.45	1
171.40													171.40	1
171.35										1	1		171.35	3
171.30				2						1			171.30	6
171.25						1	1	1	2			1	171.25	12
171.20				4	2	5	1	9	1	1	3	4	171.20	42
171.15	1		3	6	12	18	11	8	14	10	3	3	171.15	131
171.10	5	2	6	14	15	6	18	12	10	9	3	4	171.10	235
171.05	4	11	15	3	2			1	3	4	4	9	171.05	291
171.00	11	11	7	1							7	3	171.00	331
170.95	4	2								1		5	170.95	343
170.90	5									3	1	1	170.90	353
170.85	1	2										1	170.85	357
170.80											4		170.80	361
170.75											3		170.75	364
170.70											1		170.70	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3012: Niagara Intake, Niagara Falls, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	170.97	171.04	171.06	171.09	171.13	171.17	171.16	171.15	171.12	171.15	170.75	170.88
2	171.17	171.15	171.08	171.08	171.15	171.17	171.12	171.22	171.16	171.17	170.78*	171.23
3	171.03	171.11	171.10	171.13	171.17	171.17	171.14	171.16	171.12	171.18	170.78	171.24
4	171.06	171.02	171.04	171.14	171.17	171.18	171.16	171.19	171.18	171.16	170.84	171.11
5	171.07	170.99	171.03	171.11	171.17	171.17	171.15	171.24	171.23	171.20	170.81	171.14
6	171.11	171.03	171.14	171.14	171.15	171.16	171.18	171.15	171.18	171.24	171.16	171.15
7	171.14	171.04	171.13	171.11	171.15	171.20	171.14	171.15	171.15	171.40	171.18	171.19
8	171.08	171.08	171.07	171.11	171.16	171.14	171.13	171.16	171.20	171.14	171.02	171.23
9	171.05	171.03	171.15	171.15	171.15	171.19	171.17	171.20	171.14	171.12	171.06	171.21
10	170.99	171.03	171.13	171.13	171.15	171.19	171.13	171.10	171.20	171.11	171.09	171.20
11	170.93	171.05	171.17	171.15	171.18	171.15	171.12	171.22	171.08	171.09	171.08	171.10
12	170.93	171.09	171.16	171.05	171.23	171.15	171.13	171.21	171.17	171.10	171.04	170.96
13	170.96	170.90	171.13	171.10	171.20	171.14	171.14	171.24	171.12	171.14	171.02	171.06
14	170.92	170.86	171.08	171.17	171.12	171.18	171.13	171.21	171.19	171.17	171.03	171.09
15	170.90	170.99	171.17	171.13	171.15	171.22	171.14	171.25	171.10	171.20	171.04	171.10
16	170.99	171.04	171.04	171.13	171.17	171.24	171.14	171.18	171.10	171.15	171.06	171.11
17	170.95	171.05	171.08	171.14	171.13	171.23	171.16	171.11	171.15	171.09	171.14	171.00
18	170.95	171.07	171.09	171.18	171.13	171.19	171.18	171.23	171.16	171.46	171.24	171.00
19	171.04	171.08	171.01	171.21	171.16	171.18	171.19	171.18	171.26	171.34	171.11	171.09
20	171.05	171.06	171.04	171.21	171.18	171.12	171.27	171.16	171.19	171.19	171.15	171.06
21	171.03	171.08	171.02	171.16	171.17	171.16	171.17	171.13	171.17	171.11	171.36	171.20
22	171.13	171.05	171.05	171.15	171.14	171.29	171.13	171.15	171.15	171.08	171.21	171.09
23	171.04	171.09	171.10	171.22	171.10	171.24	171.14	171.28	171.15	171.12	171.02	171.04
24	171.11	171.08	171.09	171.35	171.15	171.18	171.14	171.24	171.18	171.15	170.82	171.27
25	171.11	171.08	171.08	171.32	171.18	171.24	171.16	171.11	171.16	171.16	170.83	171.10
26	171.10	171.08	171.07	171.20	171.13	171.19	171.24	171.17	171.13	171.16	170.78	170.95
27	171.05	171.05	171.10	171.17	171.10	171.17	171.17	171.11	171.20	171.17	171.24	171.04
28	171.03	171.07	171.06	171.20	171.13	171.18	171.15	171.12	171.27	170.96	171.18	171.09
29	171.05		171.11	171.21	171.15	171.19	171.14	171.13	171.18	170.91	171.03	170.99
30	171.05		171.10	171.15	171.18	171.15	171.19	171.15	171.15	170.92	170.95	171.02
31	171.05		171.10		171.21		171.15	171.12		170.95		170.99
MEAN	171.03	171.05	171.09	171.16	171.16	171.18	171.16	171.17	171.16	171.14	171.03	171.09
MAX.	171.25	171.31	171.27	171.55	171.47	171.50	171.49	171.47	171.57	171.76	171.55	171.43
	0600/22	0300/12	1700/12	0900/24	0700/13	0700/26	0700/20	0700/13	0700/28	1800/18	0900/27	2100/24
MIN.	170.85	170.85	170.94	170.73	170.75	170.83	170.82	170.79	170.81	170.75	170.58	170.76
	1000/15	2200/14	0700/16	2200/02	2100/27	2100/02	2100/29	2100/25	2100/01	2000/31	0800/03	0900/01

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 171.12

ANNUAL SUMMARY OF LEVELS, 1981

Station 3117: Ontario St., Buffalo, New York on Niagara River

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	172.41	Aug	Monthly mean elevation:	172.12	Feb
Daily mean elevation:	172.72	18 Oct	Daily mean elevation:	171.98	14 Feb
Instant/hourly elevation:	173.07	1600/18 Oct	Instant/hourly elevation:	171.90	0400/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
172.41	7 Jan
172.32	3 Feb
172.29	17 Mar
172.44	24 Apr
172.43	12 May
172.55	22 Jun
172.43	26 Jul
172.52	15 Aug
172.52	10 Sep
172.72	18 Oct
172.54	27 Nov
172.48	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
172.02	15 Jan
171.98	14 Feb
172.13	5 Mar
172.00	12 Apr
172.27	10 May
172.29	1 Jun
172.32	24 Jul
172.32	28 Aug
172.25	16 Sep
172.16	29 Oct
172.09	26 Nov
172.08	1 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
172.70										1			172.70	1
172.65													172.65	1
172.60										1			172.60	2
172.55										1			172.55	3
172.50						2		1	2	1	2		172.50	11
172.45						1		6	3	1	1	1	172.45	24
172.40	1			1	1	5	6	6	6	2	1	1	172.40	54
172.35				1	3	14	17	13	7	4	4		172.35	117
172.30	3	1		1	13	6	8	5	10	4		5	172.30	173
172.25	1		2	9	14	2			1	7	4	7	172.25	220
172.20	6	4	15	7					1	5	5	9	172.20	272
172.15	3	7	11	6						4	8	3	172.15	314
172.10	3	4	3	4							3	2	172.10	333
172.05	11	5									2	1	172.05	352
172.00	3	5											172.00	360
171.95		2		1									171.95	363

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3117: Ontario St., Buffalo, New York on Niagara River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	172.18	172.03	172.20	172.23	172.28	172.29	172.35	172.39	172.34	172.41	172.16	172.08
2	172.35	172.23	172.24	172.18	172.30	172.30	172.35	172.41	172.36	172.46	172.18	172.43
3	172.21	172.32	172.21	172.19	172.29	172.32	172.36	172.40	172.33	172.40	172.13	172.32
4	172.33*	172.18*	172.15	172.18	172.29	172.36	172.39	172.45	172.41	172.36	172.17	172.22
5	172.29	172.09	172.13	172.21	172.30	172.33	172.39	172.49	172.43	172.39	172.17	172.26
6	172.31	172.08	172.22	172.25	172.29	172.37	172.40	172.39	172.39	172.56	172.46	172.25
7	172.41	172.02	172.23	172.14	172.29	172.36	172.40	172.39	172.38	172.65	172.38	172.29
8	172.25	172.10	172.18	172.15	172.27	172.33	172.39	172.43	172.46	172.35	172.27	172.35
9	172.22	172.11	172.21	172.19	172.29	172.41	172.43	172.47	172.41	172.29	172.22	172.33
10	172.23	171.99	172.21	172.15	172.27	172.40	172.39	172.40	172.52	172.24	172.25	172.32
11	172.25	172.14	172.25	172.17	172.31	172.37	172.37	172.48	172.36	172.24	172.29	172.24
12	172.22	172.16	172.25	172.00	172.43	172.35	172.36	172.47	172.41	172.22	172.18	172.16
13	172.14	172.04	172.23	172.13	172.37	172.33	172.39	172.50	172.36	172.27	172.19	172.20
14	172.02	171.98	172.24	172.29	172.28	172.36	172.35	172.46	172.41	172.32	172.18	172.20
15	172.02	172.01	172.27	172.23	172.32	172.40	172.35	172.52	172.31	172.36	172.19	172.21
16	172.08	172.04	172.18	172.18	172.36	172.44	172.35	172.43	172.25	172.31	172.22	172.29
17	172.08	172.07	172.29*	172.21	172.31	172.44	172.36	172.38	172.32	172.26	172.28	172.14
18	172.15	172.09	172.25*	172.28	172.30	172.39	172.36	172.40	172.37	172.72	172.36	172.23
19	172.16	172.12	172.17	172.26	172.32	172.39	172.37	172.37	172.51	172.53	172.21	172.29
20	172.07	172.17	172.21	172.27	172.34	172.33	172.43	172.36	172.41	172.43	172.41	172.27
21	172.07	172.18	172.17	172.23	172.35	172.37	172.40	172.36	172.31	172.21	172.52	172.33
22	172.18	172.12	172.15	172.22	172.33	172.55	172.35	172.38	172.31	172.18	172.39	172.21
23	172.06	172.17	172.18	172.30	172.30	172.46	172.33	172.45	172.35	172.33	172.24	172.24
24	172.08	172.21	172.19	172.44	172.31	172.40	172.32	172.43	172.38	172.28	172.10	172.48
25	172.06	172.22	172.19	172.40	172.34	172.51	172.37	172.33	172.35	172.27	172.12	172.29
26	172.13	172.20	172.18	172.30	172.31	172.45	172.43	172.35	172.33	172.26	172.09	172.12
27	172.07	172.16	172.22	172.28	172.28	172.40	172.39	172.32	172.49	172.28	172.54	172.29
28	172.03	172.21	172.17	172.26	172.32	172.39	172.41	172.32	172.50	172.23	172.38	172.22
29	172.07		172.21	172.35	172.33	172.41	172.41	172.34	172.34	172.16	172.26	172.22*
30	172.06		172.22	172.29	172.35	172.38	172.42	172.38	172.28	172.18	172.14	/
31	172.07		172.19		172.37		172.39	172.36		172.20		/
MEAN	172.16	172.12	172.21	172.23	172.32	172.39	172.38	172.41	172.38	172.33	172.26	172.26
MAX.	172.49	172.45	172.42	172.55	172.57	172.88	172.58	172.69	172.75	173.07	172.82	172.69
	1800/07	1500/02	1100/17	1100/24	1400/12	1400/22	1600/26	0900/15	1300/10	1600/18	0500/27	1900/27
MIN.	171.96	171.93	172.07	171.90	172.16	172.20	172.22	172.20	172.06	172.09	171.90	171.94
	0300/15	2300/10	1000/05	2200/12	2000/14	2300/02	2200/01	2200/27	2300/21	2000/29	0400/20	0500/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 172.29

ANNUAL SUMMARY OF LEVELS, 1981

Station 3020: Buffalo Harbor, Buffalo, New York on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.39	Jul	173.95	Feb
Daily mean elevation:	174.80	18 Oct	173.78	10 Feb
Instant/hourly elevation:	175.49	1300/18 Oct	173.62	1100/12 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.20	7 Jan
174.13	28 Feb
174.20	17 Mar
174.33	24 Apr
174.41	12 May
174.57	22 Jun
174.49	9 Jul
174.46	15 Aug
174.53	10 Sep
174.80	18 Oct
174.62	27 Nov
174.48	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.82	25 Jan
173.78	10 Feb
174.03	5 Mar
173.81	12 Apr
174.19	8 May
174.22	1 Jun
174.32	24 Jul
174.23	28 Aug
174.15	16 Sep
174.07	22 Oct
174.08	19 Nov
173.99	17 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.75										1			174.75	1
174.70													174.70	1
174.65													174.65	1
174.60											1		174.60	2
174.55						2				2			174.55	6
174.50									2		1		174.50	9
174.45						2	1	1	1		1	1	174.45	16
174.40					1	7	9	6	2	4	1	1	174.40	47
174.35						8	16	8	7				174.35	86
174.30				1	5	7	5	5	4	2	3	1	174.30	119
174.25				2	10	2		6	6	4	2	1	174.25	152
174.20				4	13	2		5	5	2	8	11	174.20	202
174.15	3		3	7	2				2	7	4	4	174.15	234
174.10	2	2	9	7					1	6	6	7	174.10	274
174.05		4	15	6						3	3	3	174.05	308
174.00	2	2	4	2								1	174.00	319
173.95	5	4										1	173.95	329
173.90	5	3											173.90	337
173.85	9	8											173.85	354
173.80	5	4		1									173.80	364
173.75		1											173.75	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3020: Buffalo Harbor, Buffalo, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.02	173.85	174.09	174.15	174.23	174.22	174.33	174.37	174.28	174.42	174.22	174.06
2	174.17	174.13	174.16	174.07	174.24	174.25	174.35	174.37	174.30	174.43	174.22	174.45
3	174.05	174.08	174.11	174.10	174.21	174.27	174.39	174.37	174.28	174.33	174.18	174.20
4	174.19	173.92	174.05	174.10	174.22	174.34	174.41	174.42	174.38	174.29	174.21	174.11
5	174.15	173.87	174.03	174.18	174.24	174.30	174.41	174.44	174.38	174.32	174.23	174.18
6	174.11	173.89	174.10	174.15	174.21	174.36	174.42	174.34	174.32	174.59	174.52	174.16
7	174.20	173.85	174.14	174.06	174.21	174.32	174.44	174.35	174.33	174.60	174.35	174.21
8	173.98	173.93	174.09	174.06	174.19	174.32	174.45	174.40	174.43	174.27	174.28	174.25
9	174.00	173.88	174.10	174.11	174.24	174.41	174.49	174.42	174.40	174.20	174.16	174.24
10	173.98	173.78	174.10	174.05	174.20	174.40	174.44	174.38	174.53	174.12	174.21	174.21
11	173.95	174.04	174.14	174.06	174.24	174.37	174.42	174.43	174.36	174.14	174.24	174.15
12	173.94	173.96	174.15	173.81	174.41	174.33	174.40	174.41	174.37	174.09	174.10	174.11
13	173.88	173.85	174.13	174.04	174.33	174.32	174.45	174.43	174.31	174.17	174.13	174.15
14	173.87	173.86	174.15	174.22	174.21	174.35	174.38	174.40	174.37	174.21	174.13	174.11
15	173.86	173.85	174.19	174.17	174.27	174.39	174.38	174.46	174.25	174.27	174.12	174.12
16	173.92	173.87	174.07	174.13	174.33	174.44	174.37	174.36	174.15	174.21	174.17	174.22
17	173.93	173.88	174.20	174.17	174.26	174.43	174.39	174.31	174.24	174.18	174.23	173.99
18	173.93	173.88	174.09	174.22	174.24	174.38	174.38	174.28	174.31	174.80	174.26	174.21
19	173.88	173.90	174.09	174.16	174.25	174.39	174.37	174.25	174.48	174.43	174.08	174.23
20	173.83	173.98	174.14	174.14	174.29	174.32	174.42	174.27	174.37	174.41	174.44	174.23
21	173.86	173.99	174.08	174.11	174.31	174.38	174.40	174.27	174.19	174.07	174.46	174.27
22	173.98	173.92	174.04	174.11	174.31	174.57	174.36	174.29	174.21	174.07	174.34	174.10
23	173.87	173.99	174.05	174.20	174.27	174.46	174.32	174.36	174.25	174.28	174.20	174.22
24	173.86	174.08	174.08	174.33	174.26	174.42	174.32	174.31	174.30	174.17	174.09	174.48
25	173.82	174.08	174.08	174.27	174.29	174.56	174.37	174.23	174.26	174.17	174.12	174.23
26	173.96	174.07	174.06	174.21	174.27	174.49	174.40	174.25	174.28	174.13	174.11	174.04
27	173.88	174.02	174.11	174.20	174.23	174.42	174.39	174.23	174.51	174.15	174.62	174.32
28	173.83	174.13	174.07	174.16	174.27	174.41	174.39	174.23	174.43	174.18	174.35	174.11
29	173.88		174.10	174.29	174.28	174.43	174.40	174.27	174.24	174.12	174.22	174.22
30	173.85		174.13	174.25	174.29	174.39	174.39	174.31	174.17	174.15	174.11	174.19
31	173.83		174.07		174.32		174.35	174.29		174.19		174.07
MEAN	173.95	173.95	174.10	174.14	174.26	174.38	174.39	174.34	174.32	174.26	174.24	174.19
MAX.	174.42	174.52	174.42	174.56	174.57	175.13	174.69	174.81	174.92	175.49	175.48	175.10
	2000/04	1500/02	1000/17	1200/14	1300/12	1300/22	1600/26	0900/15	1700/19	1300/18	0500/27	1900/27
MIN.	173.76	173.67	173.91	173.62	174.04	174.16	174.21	174.10	173.84	173.89	173.64	173.73
	2400/31	1300/10	1000/05	1100/12	0400/11	1600/01	2400/21	0300/25	2200/21	0400/22	0400/20	0500/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.21

ANNUAL SUMMARY OF LEVELS, 1981

Station 3028: Sturgeon Point, New York on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.38	Jul	173.94	Feb
Daily mean elevation:	174.71	18 Oct	173.78	10 Feb
Instant/hourly elevation:	175.32	1300/18 Oct	173.69	1100/12 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.20	7 Jan
174.13	28 Feb
174.20	17 Mar
174.31	24 Apr
174.36	12 May
174.53	25 Jun
174.47	9 Jul
174.44	15 Aug
174.48	10 Sep
174.71	18 Oct
174.57	27 Nov
174.40	24 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.82	25 Jan
173.78	10 Feb
174.04	22 Mar
173.88	12 Apr
174.20	10 May
174.22	1 Jun
174.31	24 Jul
174.23	28 Aug
174.17	30 Sep
174.09	21 Oct
174.09	19 Nov
174.01	17 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.70										1			174.70	1
174.65													174.65	1
174.60													174.60	1
174.55										1	1		174.55	3
174.50						2				1			174.50	6
174.45						2	1		2		1		174.45	12
174.40						5	8	4	3	3	2		174.40	37
174.35					1	9	16	9	4	1		2	174.35	79
174.30				1	3	8	6	6	6	2	3		174.30	114
174.25				2	11	2		7	7	4	3	1	174.25	151
174.20				5	14	2		5	5	2	6	12	174.20	202
174.15	3		2	9	2				3	9	5	4	174.15	239
174.10	2	2	10	6						4	6	7	174.10	276
174.05	1	4	16	6						3	3	2	174.05	311
174.00	1	2	3									3	174.00	320
173.95	5	3											173.95	328
173.90	5	4											173.90	337
173.85	9	8		1									173.85	355
173.80	5	4											173.80	364
173.75		1											173.75	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3028: Sturgeon Point, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.03	173.84	174.09	174.17	174.23	174.22	174.33	174.36	174.27	174.42	174.22	174.04
2	174.17	174.13	174.15	174.09	174.25	174.25	174.35	174.36	174.29	174.43	174.22	174.39
3	174.06	174.07	174.11	174.13	174.21	174.28	174.38	174.36	174.27	174.33	174.18	174.20
4	174.19	173.91	174.05	174.13	174.22	174.33	174.40	174.40	174.37	174.28	174.20	174.11
5	174.15	173.87	174.04	174.21	174.25	174.29	174.41	174.43	174.37	174.31	174.22	174.19
6	174.11	173.89	174.10	174.18	174.21	174.35	174.41	174.34	174.32	174.54	174.49	174.16
7	174.20	173.84	174.14	174.10	174.22	174.31	174.42	174.34	174.32	174.56	174.34	174.21
8	173.99	173.92	174.09	174.10	174.20	174.31	174.44	174.38	174.42	174.28	174.26	174.25
9	174.00	173.86	174.10	174.14	174.24	174.39	174.47	174.40	174.39	174.20	174.17	174.24
10	173.97	173.78	174.10	174.10	174.20	174.39	174.42	174.37	174.48	174.14	174.21	174.22
11	173.95	174.03	174.14	174.10	174.25	174.36	174.41	174.43	174.35	174.15	174.27*	174.15
12	173.94	173.95	174.15	173.88	174.36	174.32	174.40	174.40	174.35	174.10	174.12	174.11
13	173.89	173.85	174.13	174.07	174.31	174.31	174.44	174.41	174.29	174.17	174.13	174.15
14	173.87	173.86	174.15	174.22	174.22	174.34	174.38	174.38	174.35	174.21	174.13	174.11
15	173.87	173.85	174.19	174.19	174.28	174.39	174.37	174.44	174.25	174.26	174.13	174.12
16	173.92	173.86	174.07	174.16	174.32	174.42	174.36	174.35	174.17	174.22	174.17	174.23
17	173.93	173.87	174.20	174.20	174.26	174.42	174.38	174.31	174.25	174.18	174.23	174.01
18	173.93	173.87	174.10	174.23	174.24	174.37	174.36	174.28	174.31	174.71	174.26	174.21
19	173.88	173.90	174.10	174.17	174.25	174.39	174.36	174.25	174.45	174.42	174.09	174.23
20	173.83	173.98	174.15	174.15	174.28	174.33	174.39	174.27	174.36	174.37	174.44	174.22
21	173.86	173.98	174.08	174.11	174.30	174.38	174.39	174.27	174.20	174.09	174.45	174.23
22	173.97	173.93	174.04	174.12	174.30	174.53	174.36	174.28	174.22	174.10	174.33	174.10
23	173.87	173.99	174.06	174.20	174.27	174.46	174.31	174.34	174.25	174.30	174.20	174.21
24	173.86	174.08	174.08	174.31	174.25	174.41	174.31	174.31	174.30	174.18	174.10	174.40
25	173.82	174.08	174.09	174.26	174.29	174.53	174.35	174.23	174.26	174.17	174.13	174.21
26	173.96	174.06	174.07	174.21	174.27	174.47	174.40	174.25	174.28	174.14	174.11	174.05
27	173.87	174.03	174.11	174.20	174.23	174.41	174.38	174.23	174.47	174.16	174.57	174.29
28	173.83	174.13	174.07	174.16	174.27	174.40	174.41	174.23	174.41	174.19	174.32	174.11
29	173.88		174.10	174.29	174.28	174.42	174.40	174.26	174.24	174.14	174.22	174.22
30	173.85		174.14	174.25	174.29	174.39	174.37	174.29	174.17	174.16	174.10	174.18
31	173.83		174.08		174.31		174.34	174.28		174.18		174.07
MEAN	173.95	173.94	174.11	174.16	174.26	174.37	174.38	174.33	174.31	174.26	174.23	174.18
MAX.	174.41	174.48	174.45	174.50	174.49	174.99	174.72	174.65	174.81	175.32	175.21	174.94
	2000/04	1400/02	1000/17	0400/18	1300/12	1300/22	1600/26	1600/15	1700/19	1300/18	0500/27	1800/27
MIN.	173.77	173.69	173.92	173.69	174.05	174.17	174.21	174.10	173.84	173.95	173.73	173.74
	2400/31	1200/10	1000/05	1100/12	0400/11	1600/01	0700/28	0300/25	2200/21	0400/22	0300/20	0500/23

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 174.21

ANNUAL SUMMARY OF LEVELS, 1981
Station 3032: Barcelona, New York on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.31	Aug	174.08	Jan
Daily mean elevation:	174.57	18 Oct	173.99	1 Jan
Instant/hourly elevation:	175.10	1400/18 Oct	173.82	0200/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.14	5 Jan
	Feb
	Mar
	Apr
	May
	Jun
	Jul
174.41	11 Aug
174.42	19 Sep
174.57	18 Oct
174.46	27 Nov
174.32	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.99	1 Jan
	Feb
	Mar
	Apr
	May
	Jun
	Jul
174.23	27 Aug
174.18	30 Sep
174.10	22 Oct
174.10	26 Nov
174.04	17 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.55										1			174.55	1
174.50													174.50	1
174.45										2	1		174.45	4
174.40								1	2	1	1		174.40	9
174.35								4	4	2	2		174.35	21
174.30								4	9	2	1	2	174.30	39
174.25								8	8	3	2		174.25	60
174.20								4	5	5	7	5	174.20	86
174.15									2	10	7	12	174.15	117
174.10	3									4	7	5	174.10	136
174.05	2									1	2	4	174.05	145
174.00	1											3	174.00	149
173.95	1												173.95	150

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3032: Barcelona, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	173.99	/	/	/	/	/	/	/	174.27	174.39	174.21	174.05
2	174.11	/	/	/	/	/	/	/	174.29	174.42	174.21	174.32
3	174.06	/	/	/	/	/	/	/	174.27	174.31	174.18	174.17
4	174.13	/	/	/	/	/	/	/	174.35	174.27	174.20	174.11
5	174.14	/	/	/	/	/	/	/	174.35	174.30	174.21	174.18
6	174.05	/	/	/	/	/	/	/	174.32	174.48	174.44	174.16
7	174.10*	/	/	/	/	/	/	/	174.32	174.49	174.31	174.18
8	/	/	/	/	/	/	/	/	174.40	174.28	174.23	174.25
9	/	/	/	/	/	/	/	/	174.37	174.21	174.17	174.23
10	/	/	/	/	/	/	/	/	174.42	174.16	174.20	174.23
11	/	/	/	/	/	/	/	174.41*	174.33	174.17	174.22	174.16
12	/	/	/	/	/	/	/	174.39	174.33	174.13	174.12	174.11
13	/	/	/	/	/	/	/	174.39	174.28	174.18	174.14	174.14
14	/	/	/	/	/	/	/	174.38	174.33	174.21	174.14	174.10
15	/	/	/	/	/	/	/	174.39	174.24	174.24	174.14	174.12
16	/	/	/	/	/	/	/	174.35	174.20	174.22	174.17	174.20
17	/	/	/	/	/	/	/	174.31	174.28	174.19	174.22	174.04
18	/	/	/	/	/	/	/	174.29	174.31	174.57	174.22	174.20
19	/	/	/	/	/	/	/	174.27	174.42	174.38	174.10	174.21
20	/	/	/	/	/	/	/	174.28	174.33	174.32	174.39	174.19
21	/	/	/	/	/	/	/	174.28	174.22	174.11	174.40	174.18
22	/	/	/	/	/	/	/	174.29	174.23	174.10	174.28	174.09
23	/	/	/	/	/	/	/	174.32	174.26	174.25	174.18	174.18
24	/	/	/	/	/	/	/	174.31	174.30	174.19	174.11	174.31
25	/	/	/	/	/	/	/	174.23	174.25	174.16	174.13	174.17
26	/	/	/	/	/	/	/	174.25	174.26	174.15	174.10	174.06
27	/	/	/	/	/	/	/	174.23	174.40	174.16	174.46	174.24
28	/	/	/	/	/	/	/	174.24	174.38	174.20	174.26	174.10
29	/		/	/	/	/	/	174.27	174.24	174.14	174.20	174.20
30	/		/	/	/	/	/	174.28	174.18	174.16	174.11	174.14
31	/		/		/		/	174.27		174.20		174.05
MEAN	174.08	/	/	/	/	/	/	174.31	174.30	174.25	174.22	174.16
MAX.	174.22							174.53	174.62	175.10	174.91	174.65
	2400/04							1400/15	2000/19	1400/18	0600/27	1900/27
MIN.	173.91							174.14	173.97	173.96	173.82	173.87
	0100/01							0300/25	2200/21	0400/22	0200/20	0400/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.22

ANNUAL SUMMARY OF LEVELS, 1981
Station 3038: Erie, Pennsylvania on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.44	Jun	Monthly mean elevation:	173.93	Jan
Daily mean elevation:	174.51	18 Oct	Daily mean elevation:	173.84	25 Jan
Instant/hourly elevation:	174.91	1400/18 Oct	Instant/hourly elevation:	173.81	0600/21 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.17	2 Jan
	Feb
174.16	20 Mar
174.28	24 Apr
174.34	16 May
174.51	25 Jun
174.44	13 Jul
174.39	14 Aug
174.41	8 Sep
174.51	18 Oct
174.42	6 Nov
	Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.84	25 Jan
	Feb
174.07	22 Mar
174.00	12 Apr
174.23	3 May
174.35	19 Jun
174.36	24 Jul
174.27	28 Aug
174.20	30 Sep
174.15	22 Oct
174.16	13 Nov
	Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.50						2				1			174.50	3
174.45						2				2			174.45	7
174.40						6	8		1	1	1		174.40	24
174.35						1	14	4	7	1			174.35	51
174.30					3	1		8	11	2	1		174.30	77
174.25				2	10			4	7	6	1		174.25	107
174.20				6	6				3	9	9		174.20	140
174.15	1		1	8					1	7	6		174.15	164
174.10	1		3	9						2			174.10	179
174.05			11	4									174.05	194
174.00	3												174.00	197
173.95	3			1									173.95	201
173.90	8												173.90	209
173.85	7												173.85	216
173.80	6												173.80	222

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3038: Erie, Pennsylvania on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.04	/	/	174.15	174.25	/	174.40	174.38*	174.29	174.40	174.22	/
2	174.17*	/	/	174.08	174.26	/	174.42	174.39*	174.31	174.43	174.24	/
3	/	/	/	174.09	174.23	/	174.43	/	174.30	174.33	174.21	/
4	/	/	/	174.08	174.25	/	/	/	174.38	174.28	174.22	/
5	174.04*	/	/	174.18	174.27	/	/	/	174.37	174.30	174.23	/
6	174.03	/	/	174.14	174.26	/	/	/	174.34	174.46	174.42	/
7	174.12	/	/	174.11	174.26	/	/	/	174.35	174.48	174.32	/
8	173.99	/	/	174.11	174.24	/	/	/	174.41	174.29	174.23	/
9	173.97	/	/	174.12	174.26	/	/	/	174.38	174.23	174.20	/
10	173.98	/	/	174.11	174.24	/	/	/	174.38	174.21	174.22	/
11	173.95	/	/	174.11	174.27	/	/	/	174.34	174.22	174.23	/
12	173.95	/	/	174.00	174.33	/	/	/	174.34	174.18	174.16	/
13	173.91	/	/	174.10	174.31	/	174.44*	/	174.30	174.22	174.16	/
14	173.90	/	/	174.18	174.25	/	174.42	174.39*	174.33	174.23	174.17	/
15	173.89	/	/	174.18	174.30	/	174.40	174.34*	174.28	174.26	174.17	/
16	173.92	/	/	174.17	174.34	/	174.38	174.37	174.25	174.25	174.19	/
17	173.92	/	174.12*	174.19	174.29	/	174.39	174.35	174.32	174.21	174.23	/
18	173.91	/	174.10	174.22	174.28	/	174.38	174.32	174.33	174.51	174.26*	/
19	173.88	/	174.10	174.20	174.29	174.35*	174.39	174.31	174.40	174.35	/	/
20	173.85	/	174.16	174.19	/	174.38	174.41	174.32	174.35	174.27	/	/
21	173.85	/	174.09	174.15	/	174.41	174.43*	174.31	174.24	174.15	/	/
22	173.95	/	174.07	174.15	/	174.51	174.40*	174.32*	174.29	174.15	/	/
23	173.86	/	174.08	174.22	/	174.47	174.37	174.33*	174.31	174.28	/	/
24	173.86	/	174.10	174.28	/	174.44	174.36	/	174.32	174.20	/	/
25	173.84	/	174.10	174.25	/	174.51	174.37	/	174.28	174.18	/	/
26	173.92	/	174.09	174.21	/	174.49	174.40	/	174.28	174.17	/	/
27	173.88	/	174.12	174.21	/	174.45	174.39	/	174.39	174.20	/	/
28	173.85	/	174.09	174.18	/	174.44	174.41	174.27*	174.37	174.22	/	/
29	173.88		174.10	174.27	/	174.44	174.43	174.28	174.25	174.18	/	/
30	173.85		174.12	174.25	/	174.44	174.39	174.29	174.20	174.19	/	/
31	173.85		174.10		/		174.38*	174.29		174.21		/
MEAN	173.93	/	174.10	174.16	174.27	174.44	174.40	174.33	174.32	174.27	174.23	/
MAX.	174.25		174.28	174.41	174.39	174.77	174.54	174.46	174.58	174.91	174.61	
	1400/02		1200/17	1100/14	2400/11	1400/22	1700/26	0200/16	1600/19	1400/18	1000/06	
MIN.	173.81		174.02	173.85	174.14	174.33	174.29	174.23	174.06	174.03	174.09	
	0600/21		1200/22	1100/12	0300/11	2200/20	0400/28	2400/19	2400/30	0300/22	2100/13	

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.24

ANNUAL SUMMARY OF LEVELS, 1981

Station 3053: Fairport Harbor, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.43	Jul	Monthly mean elevation:	173.93	Jan
Daily mean elevation:	174.47	25 Jun	Daily mean elevation:	173.85	1 Feb
Instant/hourly elevation:	174.58	1900/25 Jun	Instant/hourly elevation:	173.78	2000/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.07	1 Jan
174.09	28 Feb
174.16	16 Mar
174.26	30 Apr
174.34	15 May
174.47	25 Jun
174.46	1 Jul
174.41	16 Aug
174.39	22 Sep
174.39	2 Oct
174.29	6 Nov
174.27	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.86	26 Jan
173.85	1 Feb
174.07	15 Mar
174.08	4 Apr
174.27	5 May
174.29	3 Jun
174.39	25 Jul
174.31	31 Aug
174.26	30 Sep
174.16	20 Oct
174.16	30 Nov
174.07	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.45						2	1						174.45	3
174.40						12	25	2					174.40	42
174.35						7	5	18	8	1			174.35	81
174.30					13	7		11	15	5			174.30	132
174.25				1	18	2			7	11	2	3	174.25	176
174.20				11						10	15	1	174.20	213
174.15			1	5						1	11	14	174.15	245
174.10			23	6								10	174.10	284
174.05	1	5	7	7								2	174.05	306
174.00	3	3											174.00	312
173.95	5	2											173.95	319
173.90	8	13											173.90	340
173.85	14	4											173.85	358
173.80		1											173.80	359

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3053: Fairport Harbor, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.07	173.85	174.11	174.11	174.28	174.31	174.46	174.40	174.32	174.34	174.25	174.15
2	174.04	173.91	174.10	174.10	174.27	174.29	174.45	174.39	174.33	174.39	174.25	174.13
3	174.03	173.91	174.10	174.08	174.27	174.29	174.45	174.39	174.34	174.32	174.25	174.16
4	174.02	173.91	174.09	174.08	174.27	174.31	174.45	174.40	174.36	174.28	174.24	174.20
5	173.97	173.89	174.13	174.12	174.27	174.32	174.45	174.39	174.37	174.29	174.25	174.19
6	173.96	173.91	174.12	174.10	174.32	174.31	174.45	174.39	174.37	174.31	174.29	174.16
7	173.99	173.89	174.12	174.10	174.29	174.32	174.44	174.37	174.36	174.32	174.25	174.15
8	173.96	173.93	174.11	174.09	174.28	174.32	174.44	174.39	174.39	174.31	174.22	174.26
9	173.96	173.90	174.11	174.10	174.28	174.36	174.44	174.39	174.36	174.28	174.25	174.27
10	173.95	173.87	174.11	174.11	174.30	174.35	174.45	174.39	174.30	174.29	174.23	174.27
11	173.95	173.94	174.13	174.11	174.31	174.36	174.43	174.40	174.33	174.30	174.21	174.21
12	173.94	173.91	174.09	174.16	174.30	174.36	174.43	174.41	174.32	174.29	174.22	174.17
13	173.94	173.91	174.13	174.15	174.30	174.36	174.43	174.40	174.32	174.27	174.21*	174.15
14	173.94	173.91	174.12	174.15	174.31	174.38	174.45	174.39	174.32	174.25	/	174.16
15	173.92	173.91	174.07	174.17	174.34	174.40	174.42	174.39	174.34	174.25	/	174.18
16	173.92	173.91	174.16	174.17	174.32	174.40	174.40	174.41	174.35	174.27	174.19*	174.20*
17	173.91	173.92	174.12	174.18	174.30	174.42	174.39	174.39	174.36	174.24	174.19	/
18	173.90	173.93	174.10	174.19	174.31	174.41	174.39	174.37	174.35	174.21	174.20	174.19*
19	173.90	173.96	174.11	174.21	174.30	174.41	174.39	174.37	174.34	174.24	174.19	174.20
20	173.90	174.00	174.14	174.24	174.30	174.41	174.41	174.36	174.34	174.16	174.24	174.15
21	173.89	174.01	174.12	174.21	174.30	174.41	174.44	174.35	174.32	174.24	174.26	174.07
22	173.88	174.03	174.12	174.21	174.30	174.45	174.43	174.34	174.39	174.25	174.23	174.11
23	173.89	174.05	174.12	174.22	174.31	174.44	174.42	174.34	174.35	174.25	174.20	174.17
24	173.88	174.06	174.11	174.24	174.31	174.44	174.41	174.34	174.31	174.23*	174.23*	174.10
25	173.87	174.08	174.11	174.23	174.30	174.47	174.39	174.34	174.30	/	174.18*	174.14
26	173.86	174.09	174.11	174.22	174.30	174.46	174.41	174.32	174.30	/	174.17	174.16
27	173.88	174.09	174.13	174.22	174.32	174.44	174.41	174.33	174.30	/	174.17	174.13
28	173.89	174.09	174.12	174.25	174.32	174.44	174.42	174.33	174.30	174.25*	174.19	174.17
29	173.89		174.11	174.25	174.31	174.43	174.45	174.32	174.29	174.26	174.18	174.16
30	173.88		174.10	174.26	174.31	174.45	174.42	174.31	174.26	174.26	174.16	174.13
31	173.87		174.13		174.31		174.41	174.31		174.26		174.13
MEAN	173.93	173.96	174.11	174.17	174.30	174.38	174.43	174.37	174.33	174.27	174.22	174.17
MAX.	174.12	174.14	174.24	174.50	174.42	174.58	174.53	174.49	174.48	174.49	174.44	174.37
	2400/01	1800/28	1000/16	0100/29	0600/15	1900/25	0700/21	2300/04	2300/19	1300/01	0500/20	2300/08
MIN.	173.78	173.80	174.02	174.01	174.23	174.24	174.34	174.26	174.12	174.03	174.03	174.00
	2000/26	1500/01	1300/17	1300/09	0400/09	1800/03	1700/26	0500/30	2300/30	1400/18	1100/20	1800/21

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.22

ANNUAL SUMMARY OF LEVELS, 1981
Station 3063: Cleveland, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.42	Jul	173.95	Feb
Daily mean elevation:	174.48	1 Jul	173.84	3 Feb
Instant/hourly elevation:	174.56	1800/25 Jun	173.73	2100/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.09	1 Jan
174.10	27 Feb
174.19	16 Mar
174.28	30 Apr
174.37	28 May
174.47	26 Jun
174.48	1 Jul
174.41	16 Aug
174.40	22 Sep
174.38	2 Oct
174.26	9 Nov
174.24	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.85	26 Jan
173.84	3 Feb
174.05	15 Mar
174.08	4 Apr
174.28	9 May
174.33	8 Jun
174.38	25 Jul
174.28	30 Aug
174.24	10 Sep
174.08	18 Oct
174.08	27 Nov
173.99	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.45						4	2						174.45	6
174.40						11	21	1					174.40	39
174.35					3	7	8	18	8	1			174.35	84
174.30					21	8		9	10	5			174.30	137
174.25				4	7			3	10	14	2		174.25	177
174.20				12					2	9	15	4	174.20	219
174.15			2	3							11	9	174.15	244
174.10			26	9							1	10	174.10	290
174.05	3	4	2	2						2	1	6	174.05	310
174.00	10	5	1									1	174.00	327
173.95	8	1										1	173.95	337
173.90	6	11											173.90	354
173.85	3	6											173.85	363
173.80	1	1											173.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3063: Cleveland, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.09	173.88	174.11	174.12	174.30	174.35	174.48	174.39	174.30	174.29	174.24	174.14
2	174.06	173.86	174.12	174.13	174.30	174.34	174.46	174.38	174.32	174.38	174.25	174.06
3	174.06	173.84	174.12	174.09	174.30	174.34	174.45	174.39	174.33	174.32	174.26	174.13
4	174.03	173.91	174.11	174.08	174.29	174.33	174.44	174.37	174.33	174.28	174.24	174.20
5	173.99	173.89	174.16	174.15	174.29	174.35	174.44	174.37	174.36	174.29	174.24	174.18
6	173.97	173.90	174.14	174.13	174.36	174.33	174.45	174.39	174.37	174.27	174.25	174.15
7	174.01	173.91	174.13	174.13	174.32	174.34	174.43	174.36	174.35	174.30	174.22	174.10
8	174.01	173.93	174.13	174.12	174.30	174.33	174.43	174.37	174.37	174.31	174.21	174.23
9	174.02	173.92	174.12	174.11	174.28	174.36	174.43	174.38	174.34	174.30	174.26	174.23
10	174.03	173.89	174.12	174.12	174.32	174.36	174.44	174.37	174.24	174.32	174.21	174.24
11	174.03	173.91	174.14	174.12	174.34	174.38	174.43	174.38	174.30	174.32	174.20	174.19
12	174.02	173.89	174.08	174.24	174.32	174.39	174.42	174.38	174.31	174.32	174.23	174.16
13	174.04	173.91	174.14	174.17	174.32	174.40	174.41	174.37	174.31	174.28	174.21	174.13
14	174.03	173.91	174.12	174.18	174.34	174.40	174.45	174.38	174.30	174.25	174.22	174.15
15	174.01	173.91	174.05	174.20	174.33	174.40	174.41	174.35	174.34	174.25	174.22	174.16
16	173.99	173.91	174.19	174.21	174.33	174.42	174.40	174.41	174.36	174.28	174.20	174.13
17	173.98	173.92	174.12	174.21	174.35	174.44	174.38	174.39	174.37	174.23	174.20	174.21
18	173.96	173.93	174.11	174.21	174.35	174.44	174.38	174.37	174.36	174.08	174.20	174.16
19	173.96	173.96	174.13	174.23	174.34	174.45	174.38	174.38	174.30	174.21	174.21	174.17
20	173.98	174.02	174.14	174.28	174.33	174.45	174.39	174.36	174.32	174.10	174.17	174.10
21	173.96	174.02	174.14	174.25	174.32	174.42	174.43	174.35	174.34	174.26	174.24	173.99
22	173.87	174.05	174.14	174.25	174.32	174.44	174.43	174.34	174.40	174.27	174.20	174.10
23	173.92	174.05	174.13	174.25	174.33	174.45	174.42	174.32	174.36	174.24	174.19	174.15
24	173.91	174.05	174.11	174.27	174.33	174.46	174.41	174.33	174.30	174.22	174.23	174.03
25	173.90	174.08	174.11	174.26	174.32	174.45	174.38	174.34	174.29	174.21	174.19	174.10
26	173.85	174.10	174.11	174.25	174.32	174.47	174.40	174.32	174.26	174.25	174.16	174.16
27	173.89	174.10	174.13	174.25	174.35	174.46	174.41	174.32	174.25	174.27	174.08	174.08
28	173.92	174.08	174.12	174.25	174.37	174.45	174.42	174.32	174.28	174.27	174.16	174.17
29	173.93		174.11	174.25	174.36	174.44	174.44	174.30	174.29	174.28	174.16	174.13
30	173.93		174.10	174.28	174.35	174.46	174.41	174.28	174.28	174.27	174.15	174.11
31	173.91		174.14		174.35		174.40	174.29		174.25		174.11
MEAN	173.98	173.95	174.12	174.19	174.33	174.40	174.42	174.36	174.32	174.26	174.21	174.14
MAX.	174.14	174.14	174.32	174.35	174.41	174.56	174.55	174.49	174.51	174.48	174.45	174.37
	0700/04	0500/25	0400/16	0900/20	0600/06	1800/25	1900/09	2200/15	2400/19	1000/02	0500/20	2100/08
MIN.	173.73	173.74	174.00	174.00	174.23	174.25	174.31	174.21	174.14	173.78	173.81	173.86
	2100/26	1500/02	0400/17	1600/04	0600/09	1500/09	0700/21	0600/30	1000/10	1600/18	1200/20	2100/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.22

ANNUAL SUMMARY OF LEVELS, 1981

Station 3079: Marblehead, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.44	Jul	Monthly mean elevation:	173.90	Feb
Daily mean elevation:	174.54	1 Jul	Daily mean elevation:	173.57	2 Feb
Instant/hourly elevation:	174.64	2000/1 Jul	Instant/hourly elevation:	173.37	1700/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.04	1 Jan
174.12	27 Feb
174.17	16 Mar
174.34	12 Apr
174.41	6 May
174.48	27 Jun
174.54	1 Jul
174.43	19 Aug
174.41	22 Sep
174.38	12 Oct
174.28	9 Nov
174.23	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.74	26 Jan
173.57	2 Feb
173.98	15 Mar
174.02	5 Apr
174.28	12 May
174.30	8 Jun
174.37	20 Jul
174.28	31 Aug
174.15	27 Sep
173.78	18 Oct
173.88	27 Nov
173.91	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.50							2						174.50	2
174.45						4	8						174.45	14
174.40					1	8	15	6	1				174.40	45
174.35					5	9	6	11	7	2			174.35	85
174.30				1	14	7		12	10	5			174.30	134
174.25				2	11	2		2	7	11	4		174.25	173
174.20				3					2	6	9	3	174.20	196
174.15			2	5					2	2	6	3	174.15	216
174.10		1	9	6					1	1	6	10	174.10	250
174.05		3	15	4						2	3	9	174.05	286
174.00	1	2	4	3						1		2	174.00	299
173.95	4	4	1									1	173.95	309
173.90	7	6									1	3	173.90	326
173.85	12	3									1		173.85	342
173.80	4	3											173.80	349
173.75		2								1			173.75	352
173.70	2	2											173.70	356
173.65													173.65	356
173.60		1											173.60	357
173.55		1											173.55	358

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3079: Marblehead, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.04	173.87	174.09	174.05	174.32	174.37	174.54	174.41	174.30	174.20	174.25	174.22
2	173.96	173.57	174.03	174.13	174.28*	174.34	174.52	174.38	174.34	174.23	174.25	173.93
3	174.00	173.61	174.08	174.06	174.31	174.32	174.49	174.38	174.37	174.27	174.28	174.11
4	/	173.81	174.10	174.03	174.29	174.32	174.45	174.36	174.25	174.28	174.25	174.21
5	173.90*	173.85	174.14	174.02	174.29	174.33	174.46	174.37	174.34	174.26	174.21	174.13
6	173.86	173.78	174.10	174.10	174.41	174.30	174.46	174.41	174.37	174.10	174.07	174.12
7	173.87	173.87	174.07	174.11	174.33	174.33	174.45	174.39	174.36	174.17	174.14	174.07
8	173.96	173.71	174.11	174.08	174.32	174.30	174.43	174.33*	174.31	174.29	174.18	174.07
9	173.93	173.82	174.10	174.10	174.28	174.31	174.42	174.36*	174.31	174.32	174.28	174.12
10	173.93	173.95	174.10	174.12	174.33	174.33	174.46	174.36	174.16	174.37	174.18	174.10
11	173.93	173.71	174.08	174.13	174.33	174.36	174.44	174.35	174.26	174.35	174.15	174.13
12	173.89	173.79	174.02	174.34	174.28	174.38	174.43	174.37	174.28	174.38	174.26	174.16
13	173.95	173.91	174.09	174.18	174.29	174.39	174.42	174.34	174.32	174.31	174.23	174.12
14	173.96	173.91	174.06	174.15	174.39	174.38	174.49	174.35	174.28	174.26	174.22	174.15
15	173.94	173.92	173.98	174.20*	174.32	174.38	174.45	174.33	174.36	174.22	174.22	174.14
16	173.88	173.90	174.17	174.19*	174.30	174.37	174.44	174.43	174.38	174.25	174.19	174.05
17	173.85*	173.92	174.03	174.17	174.37	174.41	174.40	174.42	174.37	174.23	174.14	174.23
18	173.84	173.94	174.10	174.15*	174.39	174.42	174.40	174.42*	174.39	173.78	174.15	174.07
19	173.87	173.96	174.11	/	174.36	174.42	174.37	174.43	174.20	174.09	174.25	174.06
20	173.93	173.97	174.03	/	174.32	174.47	174.37	174.39	174.32	174.02	173.95	174.02
21	173.91	174.00	174.13	/	174.30	174.41	174.46	174.38	174.32*	174.31	174.07	173.93
22	173.75	174.07	174.16	/	174.30	174.37	174.46	174.35	174.41*	174.30	174.11	174.11
23	173.87	174.04	174.14	/	174.32	174.44	174.47	174.31	174.35	174.14	174.18	174.08
24	173.87	174.00	174.11	174.19*	174.32	174.45	174.44	174.33	174.30	174.21	174.27	173.91
25	173.89	174.06	174.10	174.24*	174.30	174.40	174.42	174.38	174.31	174.21	174.21	174.06
26	173.74	174.09	174.10	/	174.30	174.46	174.40	174.33	174.26*	174.26	174.19	174.18
27	173.85	174.12	174.11	174.23*	174.36	174.48	174.45	174.34	174.15	174.28	173.88	174.00
28	173.88	174.04	174.13	174.28	174.34	174.45	174.39	174.33	174.21	174.26	174.10	174.16
29	173.85		174.09	174.25	174.32	174.44	174.44	174.31	174.29	174.32	174.13	174.06
30	173.90		174.07	174.30*	174.33	174.47	174.43	174.28	174.35	174.29	174.18*	174.10
31	173.90		174.14		174.33		174.44	174.28		174.27		174.14
MEAN	173.90	173.90	174.09	174.16	174.32	174.39	174.44	174.36	174.31	174.23	174.17	174.09
MAX.	174.14	174.17	174.40	174.51	174.48	174.60	174.64	174.58	174.62	174.50	174.51	174.38
	0300/01	1800/27	0600/16	1400/12	0700/18	2300/22	2000/01	0300/17	2300/30	0200/01	0200/20	0300/01
MIN.	173.60	173.40	173.82	173.90	174.20	174.16	174.24	174.16	173.95	173.37	173.53	173.63
	0500/22	1100/02	0700/17	1200/04	1400/12	1200/22	1200/28	1200/15	1100/10	1700/18	1200/20	2100/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.20

ANNUAL SUMMARY OF LEVELS, 1981
Station 3085: Toledo, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.43	Jul	173.91	Jan
Daily mean elevation:	174.60	1 Jul	173.48	18 Oct
Instant/hourly elevation:	175.01	2300/21 Sep	172.79	1800/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.04	1 Jan
174.18	27 Feb
174.21	22 Mar
174.47	12 Apr
174.54	14 May
174.51	30 Jun
174.60	1 Jul
174.48	19 Aug
174.53	21 Sep
174.47	12 Oct
174.34	24 Nov
174.32	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.78	26 Jan
173.61	2 Feb
173.89	15 Mar
173.86	5 Apr
174.24	12 May
174.25	9 Jun
174.34	28 Jul
174.27	31 Aug
173.96	27 Sep
173.48	18 Oct
173.70	27 Nov
173.79	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.55							2						174.55	2
174.50					1	2			1				174.50	6
174.45				1	2	3	8	3	2	1			174.45	26
174.40					3	6	10	6	2	3			174.40	56
174.35				2	6	7	7	7	7	3			174.35	95
174.30				2	10	6	4	9	6	6	4	1	174.30	143
174.25				3	8	5		6	4	7	7	1	174.25	184
174.20			1	5	1	1			3	3	6	2	174.20	206
174.15		1	2	3					1		3	4	174.15	220
174.10		2	11	4					1		3	7	174.10	248
174.05		2	6	4					2	2	2	2	174.05	268
174.00	1	1	5	3						2	1	4	174.00	285
173.95	5	6	2	1					1	1		5	173.95	306
173.90	13	7	3	1						2	1	3	173.90	336
173.85	10	2	1	1							1		173.85	351
173.80		3										1	173.80	355
173.75	2										1	1	173.75	359
173.70		2											173.70	361
173.65											1		173.65	362
173.60		2											173.60	364
173.55													173.55	364
173.50													173.50	364
173.45										1			173.45	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3085: Toledo, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.04	173.91	174.07	173.92	174.37	174.43	174.60	174.42	174.31	174.06	174.27	174.32
2	173.93	173.61	173.97	174.16	174.30	174.36	174.56	174.39	174.37	174.10	174.27	173.81
3	173.99	173.65	174.05	174.03	174.35	174.31	174.49	174.37	174.44	174.28	174.32	174.11
4	173.87	173.84	174.12	173.96	174.30	174.31	174.44	174.32	174.16	174.31	174.28	174.23
5	173.92	173.88	174.15	173.86	174.31	174.32	174.44	174.38	174.32	174.27	174.21	174.11
6	173.91	173.84	174.11	174.07	174.49	174.28	174.46	174.44	174.39	173.93	173.88	174.12
7	173.86	173.92	174.04	174.10	174.37	174.34	174.43	174.38	174.38	174.04	174.10	174.05
8	173.97	173.74	174.11	174.04	174.40	174.28	174.39	174.29	174.22	174.30	174.19	173.92
9	173.95	173.86	174.09	174.08	174.29	174.25	174.37	174.34	174.27	174.38	174.30	174.02
10	173.95	173.99	174.10	174.12	174.41	174.29	174.46	174.35	174.09	174.44	174.16	174.00
11	173.95	173.74	174.03	174.14	174.35	174.34	174.42	174.30	174.22	174.39	174.16	174.10
12	173.93	173.81	173.94	174.47	174.24	174.38	174.39	174.34	174.28	174.47	174.32	174.18
13	173.98	173.93	174.04	174.22	174.28	174.40	174.39	174.31	174.33	174.38	174.26	174.13
14	173.97	173.93	174.00	174.11	174.54	174.38	174.48	174.34	174.30	174.29	174.25	174.17
15	173.96	173.93	173.89	174.22	174.33	174.37	174.46	174.30	174.39	174.21	174.24	174.12
16	173.91	173.93	174.14	174.19	174.29	174.34	174.45	174.44	174.40	174.26	174.22	174.00
17	173.88	173.94	173.94	174.15	174.44	174.39	174.39	174.47	174.39	174.29	174.12	174.29
18	173.87	173.97	174.10	174.21	174.48	174.42	174.39	174.46	174.41	173.48	174.14	174.00
19	173.90	174.00	174.08	174.23	174.43	174.42	174.34	174.48	174.10	173.98	174.33	173.97
20	173.95	173.98	173.92	174.38	174.33	174.51	174.35	174.43	174.32	173.95	173.78	173.99
21	173.92	174.04	174.14	174.38	174.30	174.39	174.45	174.42	174.53	174.41	173.92	173.93
22	173.78	174.12	174.21	174.33	174.31	174.26	174.45	174.37	174.46	174.34	174.05	174.14
23	173.89	174.09	174.17	174.09	174.34	174.44	174.49	174.30	174.36	174.04	174.22	174.04
24	173.89	174.00	174.13	174.03	174.33	174.45	174.45	174.34	174.30	174.23	174.34	173.79
25	173.92	174.07	174.13	174.19	174.28	174.30	174.42	174.42	174.32	174.24	174.27	174.07
26	173.78	174.12	174.12	174.27	174.30	174.46	174.34	174.36	174.25	174.31	174.25	174.24
27	173.87	174.18	174.12	174.26	174.40	174.50	174.47	174.38	173.96	174.31	173.70	173.95
28	173.90	174.00	174.15	174.32	174.34	174.46	174.34	174.34	174.14	174.29	174.06	174.18
29	173.86		174.07	174.23	174.32	174.43	174.39	174.32	174.31	174.42	174.11	174.03
30	173.91		174.03	174.30	174.36	174.51	174.43	174.27	174.47	174.35	174.27	174.12
31	173.92		174.17		174.36		174.47	174.27		174.32		174.19
MEAN	173.91	173.93	174.08	174.17	174.35	174.38	174.43	174.37	174.31	174.23	174.17	174.07
MAX.	174.17	174.26	174.47	174.76	174.71	174.76	174.79	174.75	175.01	174.89	174.88	174.74
	2400/02	2100/27	0500/16	1200/12	0800/18	2300/22	1900/01	0200/17	2300/21	0200/01	0100/20	0400/01
MIN.	173.62	173.39	173.55	173.63	174.12	173.82	174.10	173.96	173.70	172.79	173.06	173.47
	2100/04	1400/02	0700/17	1100/04	1300/12	1100/22	1300/26	1200/15	1800/27	1800/18	1400/20	1200/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.20

ANNUAL SUMMARY OF LEVELS, 1981

Station 3087: Monroe, Michigan on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	174.44	Jul	173.90	Jan	
Daily mean elevation:	174.58	1 Jul	173.63	18 Oct	
Instant/hourly elevation:	174.84	0200/20 Nov	172.89	1700/18 Oct	

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.97	14 Jan
174.17	27 Feb
174.19	31 Mar
174.41	12 Apr
174.45	14 May
174.50	27 Jun
174.58	1 Jul
174.45	19 Aug
174.46	21 Sep
174.42	12 Oct
174.30	19 Nov
174.33	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.78	26 Jan
173.63	2 Feb
173.94	20 Mar
173.91	5 Apr
174.24	12 May
174.26	9 Jun
174.36	28 Jul
174.28	30 Aug
174.03	27 Sep
173.63	18 Oct
173.76	27 Nov
173.86	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.55							1						174.55	1
174.50							1						174.50	2
174.45						5	8		1				174.45	16
174.40				1	3	8	13	10	1	2			174.40	54
174.35					5	6	8	11	8	4			174.35	96
174.30				3	17	7		8	8	6		1	174.30	146
174.25				4	5	4		2	5	7	10		174.25	183
174.20				4	1				2	3	7	2	174.20	202
174.15		1	3	6					2	1	3	5	174.15	223
174.10			8	6					2		2	6	174.10	247
174.05		4	7	4						1	3	4	174.05	270
174.00		3	1						1	4	1	4	174.00	284
173.95	2	4	2	1						1		6	173.95	300
173.90	8	7	2	1							1		173.90	319
173.85	10	2									1	3	173.85	335
173.80		3									1		173.80	339
173.75	2										1		173.75	342
173.70		2											173.70	344
173.65													173.65	344
173.60		2								1			173.60	347

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3087: Monroe, Michigan on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	173.97	173.91	174.08	173.99	174.33	174.42	174.58	174.43	174.32	/	174.27	174.33
2	173.87	173.63	173.98	174.17	174.29	174.37	174.55	174.41	174.35	174.08	174.26	173.86
3	173.95*	173.65	174.06	174.11	174.36	174.33	174.49	174.40	174.39	174.27	174.30	174.11
4	/	173.83	174.13	174.08	174.31	174.32	174.46	174.33	174.17	174.32	174.28	174.19
5	/	173.87	174.12	173.91	174.29	174.34	174.45	174.38	174.32	174.27	174.22	174.10
6	/	173.83	174.10	174.08	174.34	174.28	174.46	174.44	174.38	173.96	173.90	174.13
7	/	173.91	174.03	174.14	174.35	174.35	174.45	174.41	174.39	174.03	174.10	174.07
8	/	173.74	/	174.12	174.38	174.32	174.41	174.34	174.22	174.29	174.19	173.90
9	/	173.86	/	174.09	174.31	174.26	174.38	174.36	174.28	174.37	174.25	173.96
10	/	173.98	/	174.15	174.36	174.30	174.46	174.36	174.15	174.41	174.17	173.97
11	/	173.72	/	174.13	174.30	174.34	174.44	174.32	174.25	174.36	174.16	174.07
12	/	173.81	/	174.41	174.24	174.39	174.42	174.36	174.28	174.42	174.29	174.17
13	173.94*	173.92	/	174.22	174.29	174.41	174.39	174.34	174.35	174.36	174.25	174.12
14	173.97	173.93	/	174.18*	174.45	174.40	174.46	174.36	174.30	174.31	174.24	174.16
15	173.95	173.93	/	174.19	174.31	174.39	174.46	174.32	174.37	174.20	174.22	174.11
16	173.91	173.93	174.00*	174.20	174.28	174.34	174.45	174.40	174.38	174.24	174.21	174.01
17	173.88	173.94	173.94	174.19	174.41	174.38	174.40	174.44	174.36	174.32	174.13	174.25
18	173.86	173.96	174.08	174.21	174.41	174.44	174.42	174.45	174.38	173.63	174.13	173.99
19	173.90	173.99*	174.07	174.24	174.39	174.42	174.38	174.45	174.14	174.01	174.30	173.97
20	173.94	173.96	173.94	174.30	174.33	174.50	174.36	174.41	174.31	174.03	173.84	174.02
21	173.92	174.02	174.14	174.35	174.31	174.42	174.44	174.41	174.46	174.34	173.93	174.00
22	173.78	174.10	174.18	174.32	174.31	174.29	174.44	174.37	174.39	174.30	174.07	174.13
23	173.89	174.10	174.15	174.14	174.34	174.44	174.49	174.31	174.34	174.03	174.21	174.04
24	173.89	174.02	174.13	174.06	174.34	174.50*	174.45	174.33	174.30	174.24	174.28	173.86
25	173.92	174.07	174.12	174.19	174.31	174.36*	174.43	174.41	174.33	174.24	174.27	174.08
26	173.78	174.10	174.14	174.27	174.32	174.45	174.36	174.36	174.30	174.28	174.28	174.23
27	173.88	174.17	174.10	174.26	174.37	174.50	174.45	174.39	174.03	174.27	173.76	173.97
28	173.89	174.02	174.17	174.35	174.33	174.48	174.36	174.38	174.16	174.27	174.05	174.17
29	173.86		174.12	174.23	174.35	174.45	174.39	174.34	174.31	174.38	174.10	174.05
30	173.90		174.10	174.30	174.34	174.48	174.44	174.28	174.45	174.33	174.27	174.12
31	173.92		174.19		174.35		174.48	174.30		174.31		174.19
MEAN	173.90	173.92	174.09	174.19	174.34	174.39	174.44	174.37	174.31	174.23	174.16	174.08
MAX.	174.10	174.25	174.34	174.67	174.57	174.70	174.74	174.67	174.75	174.60	174.84	174.75
	2400/02	2000/27	1700/31	1100/12	0800/18	2200/22	1800/01	1200/16	2300/21	1900/12	0200/20	0400/01
MIN.	173.61	173.41	173.55	173.73	174.10	173.89	174.11	173.99	173.81	172.89	173.12	173.47
	0600/22	1300/02	0800/17	1000/14	0100/12	1100/22	1100/26	1200/15	2300/27	1700/18	1400/20	1200/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.20

ANNUAL SUMMARY OF LEVELS, 1981

Station 3090: Fermi Power Plant, Stony Point, Michigan on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.42	Jul	173.90	Jan
Daily mean elevation:	174.53	1 Jul	173.62	2 Feb
Instant/hourly elevation:	174.78	0200/20 Nov	173.00	1800/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.02	1 Jan
174.15	27 Feb
174.16	31 Mar
174.37	12 Apr
174.40	14 May
174.47	27 Jun
174.53	1 Jul
174.42	18 Aug
174.44	21 Sep
174.40	12 Oct
174.28	19 Nov
174.34	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.77	26 Jan
173.62	2 Feb
173.92	17 Mar
173.89	5 Apr
174.23	12 May
174.26	9 Jun
174.35	28 Jul
174.28	30 Aug
174.04	27 Sep
173.66	18 Oct
173.77	27 Nov
173.87	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.50							2						174.50	2
174.45						4	2						174.45	8
174.40						5	16	4	2				174.40	35
174.35				1	3	8	9	10	5	3			174.35	74
174.30				2	13	8	2	14	8	7		1	174.30	129
174.25				2	14	5		3	8	7	5		174.25	173
174.20				5	1				2	5	11	2	174.20	199
174.15			2	6					2	1	3	3	174.15	216
174.10		1	6	6					2		3	8	174.10	242
174.05		3	12	5						2	3	4	174.05	271
174.00	1	2	5	1					1	4	1	5	174.00	291
173.95	1	4	4	1						1		3	173.95	305
173.90	11	7	2								1	2	173.90	328
173.85	13	3		1							1	3	173.85	349
173.80	3	3									1		173.80	356
173.75	2	1									1		173.75	360
173.70		2											173.70	362
173.65										1			173.65	363
173.60		2											173.60	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 3090: Fermi Power Plant, Stony Point, Michigan on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.02	173.89	174.07	173.99	174.30	174.39	174.53	174.40	174.31	174.10	174.25	174.34
2	173.91	173.62	173.97	174.15	174.28	174.34	174.51	174.38	174.33	174.07	174.24	173.89
3	173.97	173.65	174.05	174.10	174.33	174.31	174.47	174.37	174.37	174.26	174.28	174.12
4	173.85	173.82	174.12	174.10	174.29	174.31	174.43	174.32	174.16	174.31	174.25	174.18
5	173.91	173.86	174.10	173.89	174.27	174.32	174.43	174.35	174.30	174.27	174.22	174.10
6	173.90	173.82	174.08	174.06	174.30	174.27	174.44	174.41	174.36	173.97	173.88	174.12
7	173.85	173.90	174.01	174.14	174.32	174.33	174.42	174.39	174.36	174.03	174.10	174.07
8	173.95	173.73	174.10	174.11	174.35	174.30	174.40	174.32	174.21	174.27	174.19	173.90
9	173.93	173.85	174.08	174.08	174.28	174.26	174.37	174.34	174.28	174.35	174.24	173.95
10	173.93	173.96	174.09	174.13	174.32	174.28	174.43	174.36	174.17	174.39	174.18	173.95
11	173.93	173.73	174.01	174.14	174.28	174.33	174.42	174.31	174.25	174.34	174.15	174.06
12	173.91	173.80	174.00	174.37	174.23	174.36	174.40	174.35	174.27	174.40	174.28	174.15
13	173.95	173.91	174.02	174.19	174.28	174.39	174.38	174.32	174.33	174.35	174.24	174.12
14	173.95	173.91	174.00	174.07	174.40	174.37	174.43	174.35	174.27	174.29	174.22	174.15
15	173.94	173.91	173.97	174.17	174.28	174.37	174.42	174.31	174.35	174.20	174.22	174.11
16	173.90	173.92	174.06	174.19	174.28	174.33	174.42	174.36	174.36	174.24	174.20	174.01
17	173.86	173.93	173.92	174.17	174.37	174.36	174.38	174.41	174.34	174.31	174.12	174.22
18	173.86	173.95	174.07	174.18	174.38	174.42	174.38	174.42	174.35	173.66	174.13	173.99
19	173.89	173.96	174.05	174.21	174.35	174.40	174.37	174.41*	174.14	174.01	174.28	173.96
20	173.92	173.94	173.93	174.25	174.31	174.46	174.36	174.39	174.30	174.05	173.84	174.02
21	173.90	174.00	174.12	174.32	174.29	174.40	174.41	174.39	174.44	174.31	173.93	174.01
22	173.77	174.07	174.16	174.31	174.29	174.28	174.42	174.35	174.36	174.28	174.07	174.12
23	173.87	174.07	174.13	174.15	174.32	174.41	174.46	174.29	174.33	174.05	174.21	174.04
24	173.87	174.00	174.10	174.05	174.33	174.46	174.43	174.31	174.29	174.24	174.26	173.87
25	173.90	174.05	174.10	174.17	174.29	174.32	174.41	174.39	174.32	174.23	174.25	174.06
26	173.77	174.08	174.12	174.25	174.30	174.42	174.35	174.34	174.29	174.26	174.27	174.21
27	173.86	174.15	174.10	174.25	174.34	174.47	174.42	174.36	174.04	174.25	173.77	173.98
28	173.88	174.02	174.15	174.29	174.31	174.46	174.35	174.35	174.13	174.25	174.05	174.17
29	173.85		174.12	174.22	174.32	174.44	174.37	174.33	174.29	174.36	174.10	174.05
30	173.89		174.07	174.28	174.32	174.44	174.42	174.28	174.42	174.32	174.24	174.12
31	173.90		174.16		174.32		174.45	174.29		174.29		174.18
MEAN	173.90	173.91	174.07	174.17	174.31	174.37	174.42	174.35	174.29	174.22	174.16	174.07
MAX.	174.14	174.23	174.29	174.58	174.54	174.69	174.66	174.61	174.67	174.64	174.78	174.71
	2400/02	2000/27	1700/31	1100/12	0700/18	2200/22	1800/01	0300/17	2100/21	0100/01	0200/20	0400/01
MIN.	173.61	173.42	173.50	173.73	174.09	173.91	174.13	174.03	173.79	173.00	173.15	173.50
	0600/22	1300/02	0800/17	1200/14	0100/12	1100/22	1700/28	1200/15	2300/27	1800/18	1400/20	1200/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.19

ANNUAL SUMMARY OF LEVELS, 1981
Station 4020: Gibraltar, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.48	Jul	173.96	Jan
Daily mean elevation:	174.58	1 Jul	173.75	2 Feb
Instant/hourly elevation:	174.87	0200/20 Nov	173.27	1800/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.01	14 Jan
174.21	27 Feb
174.22	31 Mar
174.40	12 Apr
174.42	18 May
174.53	28 Jun
174.58	1 Jul
174.48	18 Aug
174.47	30 Sep
174.45	12 Oct
174.37	26 Nov
174.42	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.85	22 Jan
173.75	2 Feb
173.98	17 Mar
173.96	5 Apr
174.28	12 May
174.32	9 Jun
174.42	28 Jul
174.36	30 Aug
174.13	27 Sep
173.83	18 Oct
173.87	27 Nov
173.95	8 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.55							2						174.55	2
174.50						5	4						174.50	11
174.45						6	16	7	2				174.45	42
174.40					3	6	9	10	4	4		1	174.40	79
174.35				3	11	8		7	11	6	1		174.35	126
174.30				2	15	5			7	8	6		174.30	169
174.25				6	2				2	6	8	2	174.25	195
174.20		1	1	9					2	1	4	3	174.20	216
174.15			9	4					1	2	4	8	174.15	244
174.10		3	10	4					1	2	2	5	174.10	271
174.05		4	7	1						1	1	5	174.05	290
174.00	3	8	2									2	174.00	305
173.95	14	5	2	1							2	4	173.95	333
173.90	6	3									1	1	173.90	344
173.85	2										1		173.85	347
173.80	1	2								1			173.80	351
173.75		1											173.75	352
173.70		1											173.70	353

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4020: Gibraltar, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	174.00	174.13	174.06	174.33	174.44	174.58	174.47	174.39	174.21	174.31	174.42
2	/	173.75	174.02	174.21	174.33	174.39	174.57	174.46	174.39	174.14	174.30	174.00
3	/	173.80	174.11	174.18	174.40	174.37	174.54	174.45	174.42	174.33	174.33	174.17
4	/	173.96	174.18	174.22	174.34	174.35	174.51	174.39	174.24	174.38	174.31	174.22
5	/	173.99	174.13	173.96	174.31	174.37	174.50	174.42	174.36	174.33	174.28	174.15
6	173.94*	173.95	174.13	174.11	174.30	174.32	174.50	174.47	174.42	174.30*	173.95	174.19
7	173.90	174.00	174.07	174.21	174.36	174.38	174.49	174.46	174.43	174.16*	174.16	174.14
8	174.01	173.85	174.15	174.20	174.40	174.37	174.46	174.39	174.28	174.32	174.25	173.95
9	173.99	173.94	174.14	174.13	174.34	174.32	174.44	174.42	174.35	174.40	174.27	173.99
10	173.99	174.05	174.14	174.19	174.35	174.35	174.50	174.43	174.27	174.43	174.25	173.99
11	173.99	173.85	174.07	174.18	174.32	174.39	174.48	174.38	174.33	174.39	174.20	174.10
12	173.97	173.92	174.07	174.40	174.28	174.42	174.47	174.42	174.35	174.45	174.32	174.20
13	174.01	174.02	174.06	174.25	174.33	174.45	174.45	174.39	174.40	174.41	174.29	174.17
14	174.01	174.01	174.06	174.12	174.42	174.43	174.49	174.42	174.34	174.36	174.27	174.20
15	174.00	174.01	174.04	174.23	174.32	174.44	174.49	174.39	174.40	174.27	174.27	174.15
16	173.96	174.02	174.09	174.26	174.33	174.39	174.48	174.41	174.41	174.29	174.25	174.07
17	173.94	174.02	173.98	174.24	174.41	174.42	174.45	174.47	174.39	174.39	174.18	174.25
18	173.93	174.03	174.12	174.23	174.42	174.49	174.45	174.48	174.40	173.83	174.18	174.04
19	173.96	174.03	174.09	174.27	174.39	174.46	174.45	174.41*	174.23	174.08	174.32	174.01
20	173.99	174.00	173.99	174.27	174.36	174.52	174.42*	/	174.35	174.16	173.96	174.09
21	173.97	174.07	174.17	174.37	174.35	174.46	174.48*	/	174.47	174.34	173.98	174.14
22	173.85	174.15	174.20	174.36	174.34	174.35	174.48	/	174.40	174.32	174.13	174.19
23	173.95	174.15	174.17	174.23	174.37	174.48	174.52	/	174.38	174.12	174.25	174.10
24	173.96	174.07	174.16	174.11	174.38	174.53	174.49	/	174.35	174.30	174.29	173.99
25	173.98	174.10	174.16	174.21	174.35	174.40	174.47	/	174.39	174.30	174.31	174.16
26	173.86	174.13	174.18	174.30	174.35	174.48	174.43	/	174.37	174.32	174.37	174.27
27	173.94	174.21	174.15	174.30	174.38	174.53	174.48	174.46*	174.13	174.30	173.87	174.07
28	173.96	174.09	174.20	174.35	174.35	174.53	174.42	174.42	174.19	174.31	174.10	174.21
29	173.93		174.18	174.26	174.37	174.51	174.43	174.41	174.35	174.41	174.15	174.11
30	173.97		174.14	174.33	174.36	174.49	174.48	174.36	174.47	174.37	174.30	174.20
31	173.99		174.22		174.37		174.51	174.37		174.35		174.27
MEAN	173.96	174.01	174.12	174.22	174.36	174.43	174.48	174.42	174.36	174.29	174.21	174.14
MAX.	174.10	174.31	174.37	174.59	174.56	174.75	174.80	174.65	174.77	174.75	174.87	174.83
	1500/29	2000/27	1800/31	1400/12	0700/18	2200/22	0300/28	0300/17	2400/30	0200/01	0200/20	0500/01
MIN.	173.71	173.58	173.50	173.71	174.13	173.97	174.17	174.12	173.91	173.27	173.36	173.60
	0700/22	1400/02	0900/17	1000/14	0200/12	1100/22	1700/28	1200/15	2400/27	1800/18	1400/20	1300/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.25

ANNUAL SUMMARY OF LEVELS, 1981

Station 4030: Wyandotte, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	174.85	Jul	174.32	Jan
Daily mean elevation:	174.91	2 Jul	174.20	7 Jan
Instant/hourly elevation:	175.03	0200/1 Oct	174.08	2100/4 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.48	31 Jan
174.64	27 Feb
174.60	4 Mar
174.73	30 Apr
174.80	14 May
174.88	27 Jun
174.91	2 Jul
174.85	18 Aug
174.83	22 Sep
174.82	4 Oct
174.72	3 Nov
174.73	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.20	7 Jan
174.33	3 Feb
174.46	20 Mar
174.43	5 Apr
174.71	12 May
174.70	9 Jun
174.82	26 Jul
174.76	30 Aug
174.60	27 Sep
174.40	18 Oct
174.40	27 Nov
174.46	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
174.90							2						174.90	2
174.85						5	12						174.85	19
174.80						6	17	15	9	3			174.80	69
174.75					5	10		16	13	7			174.75	120
174.70				5	26	8			4	10	3	1	174.70	177
174.65				6		1			2	5	10		174.65	201
174.60		5		6					1	2	7	4	174.60	226
174.55		3	16	7					1	1	5	12	174.55	271
174.50		6	10	4						2	2	5	174.50	300
174.45	4	4	5	1							2	9	174.45	325
174.40	1	2		1									174.40	329
174.35	4	5								1	1		174.35	340
174.30	4	3											174.30	347
174.25	9												174.25	356
174.20	8												174.20	364
174.15	1												174.15	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4030: Wyandotte, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.39	174.48	174.59	174.47	174.74	174.78	174.91	174.84	174.77	174.74	174.71	174.73
2	174.29	174.37	174.53	174.58	174.73	174.76	174.91	174.82	174.78	174.70	174.71	174.46
3	174.30	174.33	174.57	174.54	174.75	174.74	174.89	174.82	174.81	174.80	174.72	174.57
4	174.21	174.34	174.60	174.54	174.72	174.74	174.86	174.78	174.72	174.82	174.69	174.61
5	174.21	174.36	174.58	174.43	174.71	174.74	174.86	174.80	174.79	174.78	174.68	174.56
6	174.23	174.36	174.57	174.52	174.74	174.72	174.86	174.83	174.82	174.63	174.49	174.58
7	174.20	174.43	174.53	174.57	174.73	174.75	174.85	174.83	174.83	174.62	174.60	174.56
8	174.25	174.35	174.57	174.56	174.74	174.74	174.84	174.80	174.74	174.75	174.65	174.46
9	174.24	174.37	174.56	174.55	174.71	174.70	174.82	174.81	174.78	174.79	174.67	174.48
10	174.23	174.46	174.56	174.58	174.74	174.72	174.86	174.81	174.70	174.81	174.65	174.48
11	174.23	174.44	174.52	174.59	174.74	174.75	174.85	174.79	174.75	174.78	174.62	174.53
12	174.22	174.40	174.49	174.71	174.71	174.78	174.84	174.80	174.76	174.81	174.69	174.60
13	174.26	174.46	174.51	174.64	174.74	174.80	174.84	174.78	174.78	174.78	174.67	174.57
14	174.28	174.48	174.50	174.58	174.80	174.79	174.86	174.80	174.77	174.74	174.66	174.59
15	174.29	174.53	174.47	174.65	174.74	174.79	174.86	174.79	174.80	174.68	174.65	174.56
16	174.29	174.52	174.54	174.66	174.74	174.77	174.85	174.82	174.81	174.69	174.64	174.50
17	174.29	174.53	174.47	174.64	174.79	174.79	174.83	174.85	174.82	174.74	174.60	174.62
18	174.28	174.51	174.54	174.65	174.79	174.82	174.82	174.85	174.81	174.40	174.59	174.50
19	174.31	174.51	174.53	174.67	174.78	174.82	174.82	174.84	174.68	174.54	174.69	174.47
20	174.34	174.52	174.46	174.70	174.74	174.86	174.84	174.83	174.76	174.55	174.53	174.50
21	174.34	174.57	174.56	174.72	174.73	174.83	174.86	174.82	174.83	174.72	174.49	174.52
22	174.29	174.61	174.58	174.72	174.73	174.78	174.86	174.81	174.83	174.72	174.56	174.58
23	174.35	174.62	174.57	174.63	174.74	174.85	174.87	174.77	174.79	174.60	174.64	174.54
24	174.38	174.59	174.56	174.58	174.74	174.88	174.85	174.77	174.77	174.69	174.68	174.46
25	174.40	174.61	174.56	174.64	174.72	174.80	174.83	174.81	174.78	174.70	174.66	174.56
26	174.36	174.62	174.57	174.68	174.73	174.85	174.82	174.79	174.76	174.72	174.69	174.64
27	174.44	174.64	174.55	174.69	174.76	174.88	174.85	174.80	174.60	174.74	174.40	174.54
28	174.48	174.57	174.57	174.73	174.74	174.87	174.84	174.80	174.64	174.75	174.53	174.59
29	174.46		174.55	174.69	174.74	174.85	174.83	174.78	174.74	174.80	174.57	174.55
30	174.48		174.54	174.73	174.74	174.86	174.86	174.76	174.82	174.77	174.64	174.57
31	174.48		174.59		174.75		174.87	174.77		174.74		174.62
MEAN	174.32	174.48	174.54	174.62	174.74	174.79	174.85	174.81	174.77	174.71	174.63	174.55
MAX.	174.52	174.69	174.66	174.82	174.87	174.97	174.99	174.93	174.99	175.03	175.02	174.95
	1600/29	2100/23	1900/31	1400/12	0800/18	2200/22	0500/28	0400/17	2400/30	0200/01	0400/20	0500/01
MIN.	174.08	174.25	174.28	174.35	174.64	174.61	174.71	174.67	174.49	174.15	174.23	174.32
	2100/04	1900/08	0900/17	1600/01	0300/12	1300/22	1800/28	1300/15	1900/27	1800/18	1500/20	1200/08

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 174.65

ANNUAL SUMMARY OF LEVELS, 1981

Station 4036: Fort Wayne, Detroit, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	174.97	Jul	174.48	Jan
Daily mean elevation:	175.02	2 Jul	174.36	5 Jan
Instant/hourly elevation:	175.15	0100/1 Oct	174.29	2300/4 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.61	31 Jan
174.79	27 Feb
174.75	1 Mar
174.86	30 Apr
174.92	18 May
174.99	27 Jun
175.02	2 Jul
174.97	19 Aug
174.97	7 Sep
174.97	4 Oct
174.85	3 Nov
174.83	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.36	5 Jan
174.53	2 Feb
174.61	20 Mar
174.58	5 Apr
174.83	9 May
174.84	9 Jun
174.95	26 Jul
174.90	31 Aug
174.75	27 Sep
174.59	18 Oct
174.57	27 Nov
174.61	8 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
175.00							2						175.00	2
174.95						8	25	7	5	2			174.95	49
174.90					3	9	4	22	14	8			174.90	109
174.85				1	21	10		2	8	9			174.85	160
174.80				8	7	3			1	6	9	1	174.80	195
174.75		6		8					1	3	11	1	174.75	225
174.70		4	8	3					1		4	10	174.70	255
174.65		9	17	8						2	4	10	174.65	305
174.60	3	4	6								1	9	174.60	328
174.55	3	1		2						1	1		174.55	336
174.50	4	1											174.50	341
174.45	10												174.45	351
174.40	7												174.40	358
174.35	4												174.35	362

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4036: Fort Wayne, Detroit, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.48	174.61	174.75	174.60	174.87	174.90	175.01	174.97	174.90	174.90	174.85	174.83
2	174.39	174.53	174.70	174.70	174.86	174.88	175.02	174.95	174.92	174.88	174.85	174.61
3	174.39	174.56	174.72	174.67	174.87	174.86	174.99	174.95	174.94	174.96	174.85	174.70
4	174.36	174.66	174.74	174.67	174.85	174.87	174.98	174.92	174.88	174.97	174.83	174.74
5	174.36	174.69	174.72	174.58	174.84	174.87	174.98	174.94	174.93	174.94	174.81	174.70
6	174.42	174.67	174.71	174.66	174.87	174.85	174.98	174.96	174.96	174.80	174.67	174.72
7	174.42	174.68	174.68	174.69	174.85	174.88	174.97	174.96	174.97	174.80	174.75	174.70
8	174.44	174.62	174.71	174.68	174.86	174.87	174.96	174.94	174.89	174.90	174.78	174.61
9	174.45	174.65	174.70	174.68	174.83	174.84	174.95	174.95	174.92	174.92	174.81	174.63
10	174.44	174.71	174.69	174.70	174.86	174.85	174.98	174.95	174.86	174.94	174.78	174.64
11	174.42	174.67	174.66	174.72	174.87	174.88	174.97	174.92	174.89	174.91	174.77	174.67
12	174.43	174.70	174.63	174.82	174.85	174.90	174.97	174.93	174.91	174.94	174.81	174.72
13	174.47	174.74*	174.65	174.77	174.87	174.92	174.96	174.92	174.92	174.91	174.79	174.71
14	174.51	/	174.64	174.72	174.92	174.91	174.97	174.92	174.91	174.87	174.79	174.72
15	174.50	/	174.61	174.78	174.88	174.91	174.97	174.92	174.93	174.83	174.78	174.69
16	174.48	/	174.68	174.79	174.88	174.90	174.97	174.95	174.94	174.84	174.77	174.64
17	174.47	174.66*	174.62	174.78	174.92	174.91	174.96	174.97	174.96	174.86	174.73	174.74
18	174.46	174.65	174.67	174.78	174.92	174.94	174.95	174.97	174.95	174.59	174.73	174.65
19	174.47	174.66	174.67	174.80	174.90	174.94	174.95	174.97	174.84	174.70	174.82	174.62
20	174.49	174.67	174.61	174.83	174.87	174.97	174.97	174.96	174.89	174.70	174.68	174.64
21	174.49	174.72	174.69	174.84	174.86	174.95	174.98	174.95	174.96	174.85	174.65	174.66
22	174.46	174.76	174.71	174.84	174.86	174.91	174.98	174.94	174.96	174.85	174.71	174.71
23	174.51	174.78	174.69	174.77	174.86	174.97	174.99	174.91	174.93	174.76	174.77	174.69
24	174.53	174.76	174.69	174.72	174.86	174.99	174.97	174.91	174.92	174.83	174.81	174.63
25	174.56	174.77	174.69	174.77	174.85	174.93	174.96	174.93	174.91	174.84	174.78	174.71
26	174.53	174.78	174.69	174.81	174.85	174.97	174.95	174.91	174.89	174.86	174.80	174.76
27	174.58	174.79	174.68	174.82	174.88	174.99	174.98	174.92	174.75	174.88	174.57	174.70
28	174.61	174.73	174.70	174.85	174.87	174.98	174.97	174.92	174.80	174.90	174.67	174.72
29	174.59		174.67	174.82	174.86	174.96	174.97	174.91	174.88	174.93	174.70	174.70
30	174.61		174.67	174.86	174.87	174.98	174.98	174.90	174.95	174.91	174.76	174.70
31	174.61		174.71		174.87		174.99	174.90		174.88		174.75
MEAN	174.48	174.69	174.68	174.75	174.87	174.92	174.97	174.94	174.91	174.86	174.76	174.69
MAX.	174.64	174.82	174.78	174.92	174.98	175.06	175.08	175.02	175.09	175.15	175.09	175.00
	1600/29	2200/23	0700/01	1900/30	0800/18	2300/22	0500/28	0400/17	2100/21	0100/01	0300/20	0400/01
MIN.	174.29	174.48	174.46	174.52	174.74	174.80	174.87	174.83	174.64	174.39	174.43	174.51
	2300/04	1500/02	0900/17	1700/01	0200/30	1400/22	1600/26	0100/24	1700/27	1500/18	1600/20	1400/08

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 174.79

ANNUAL SUMMARY OF LEVELS, 1981

Station 4049: Windmill Point, Detroit, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	175.22	Jul	174.66	Jan
Daily mean elevation:	175.25	3 Oct	174.53	4 Jan
Instant/hourly elevation:	175.29	0600/28 Jul	174.52	2200/4 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.85	31 Jan
175.09	26 Feb
175.05	1 Mar
175.12	30 Apr
175.18	14 May
175.22	30 Jun
175.25	2 Jul
175.22	17 Aug
175.24	17 Sep
175.25	3 Oct
175.11	2 Nov
175.03	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.53	4 Jan
174.81	2 Feb
174.89	15 Mar
174.87	5 Apr
175.08	9 May
175.10	10 Jun
175.19	19 Jul
175.14	30 Aug
175.03	27 Sep
174.90	18 Oct
174.90	27 Nov
174.89	20 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
175.20						6	26	7	4	4			175.20	47
175.15					5	8	4	21	17	9			175.15	111
175.10				2	18	13		3	7	7	2		175.10	163
175.05		5		8	8	3			1	8	6		175.05	202
175.00		3	5	8					1		10	2	175.00	231
174.95		1	8	2						1	8	17	174.95	268
174.90		10	16	6						1	1	9	174.90	311
174.85		6	2	4						1	1	3	174.85	328
174.80	4	3											174.80	335
174.75	1												174.75	336
174.70	3												174.70	339
174.65	3												174.65	342
174.60	11												174.60	353
174.55	7												174.55	360
174.50	2												174.50	362

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4049: Windmill Point, Detroit, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.66	174.84	175.05	174.87	175.14	175.13	175.24	175.21	175.14	175.18	175.11	175.03
2	174.58	174.81	175.02	174.95	175.12	175.12	175.25	175.20	175.17	175.21	175.11	174.90
3	174.56	174.82	175.02	174.90	175.11	175.11	175.23	175.20	175.19	175.25	175.09	174.96
4	174.53	174.86	175.01	174.87	175.10	175.12	175.23	175.17	175.15	175.24	175.08	174.99
5	174.54	174.89	175.01	174.87	175.10	175.12	175.23	175.19	175.20	175.22	175.06	174.96
6	174.56	174.88	174.99	174.93	175.16	175.11	175.23	175.20	175.22	175.12	174.99	174.97
7	174.58	174.88	174.98	174.92	175.09	175.12	175.22	175.20	175.22	175.12	175.04	174.96
8	174.60	174.86	174.98	174.91	175.10	175.10	175.21	175.20	175.18	175.17	175.04	174.91*
9	174.59	174.87	174.96	174.95	175.08	175.10	175.21	175.21	175.19	175.17	175.07	174.94*
10	174.60	174.91	174.96	174.95	175.12	175.10	175.23	175.19	175.13	175.19	175.03	174.94
11	174.61	174.92	174.94	174.97	175.15	175.12	175.22	175.19	175.16	175.17	175.03	174.96
12	174.63	174.94	174.90	175.04	175.13	175.13	175.21	175.18	175.17	175.17	175.05	174.98
13	174.64	174.94	174.94	175.02	175.14	175.15	175.22	175.17	175.16	175.14	175.04	174.96
14	174.65	174.92	174.92	175.00	175.18	175.14	175.24	175.17	175.18	175.11	175.03	174.97
15	174.65	174.92	174.89	175.05	175.16	175.14	175.22	175.17	175.18	175.09	175.02	174.95
16	174.64	174.91	174.97	175.04	175.15	175.14	175.21	175.22	175.19	175.10	175.02	174.92
17	174.64	174.92	174.92	175.04	175.17	175.16	175.21	175.22	175.24	175.09	175.00	174.98
18	174.64	174.92	174.95	175.06	175.17	175.16	175.20	175.21	175.20	174.90	174.99	174.92
19	174.64	174.94	174.94	175.06	175.15	175.18	175.19	175.21	175.12	174.98	175.06	174.91
20	174.65	174.98	174.91	175.11	175.13	175.20	175.23	175.21	175.15	174.95	174.96	174.89
21	174.66	175.02	174.94	175.08	175.11	175.19	175.24	175.20	175.20	175.10	174.96	174.90
22	174.65	175.05	174.96	175.08	175.11	175.18	175.23*	175.19	175.22	175.10	174.98	174.96
23	174.68	175.06	174.95	175.03	175.11	175.22	/	175.16	175.20	175.06	175.02	174.97
24	174.71	175.07	174.95	175.03	175.10	175.22	175.21*	175.17	175.17	175.09	175.06*	174.94
25	174.74	175.09	174.94	175.05	175.10	175.19	175.20	175.17	175.17	175.10	/	174.98
26	174.75	175.09	174.94	175.07	175.10	175.22	175.20	175.16	175.14	175.12	/	175.01
27	174.79	175.08	174.95	175.08	175.14	175.22	175.22	175.16	175.03	175.15	174.90*	174.97
28	174.82	175.05	174.94	175.10	175.13	175.21	175.23	175.16	175.09	175.18	174.94	174.98
29	174.83		174.91	175.10	175.11	175.20	175.24	175.14	175.14	175.19	174.97	174.97
30	174.84		174.92	175.12	175.12	175.22	175.23	175.14	175.19	175.16	175.00	174.95
31	174.85		174.96		175.13		175.23	175.15		175.13		174.97
MEAN	174.66	174.94	174.96	175.01	175.13	175.16	175.22	175.18	175.17	175.13	175.02	174.95
MAX.	174.85	175.11	175.06	175.18	175.22	175.28	175.29	175.25	175.28	175.28	175.19	175.14
	2400/31	0800/26	0100/16	0800/20	1200/30	0200/22	0600/28	1900/17	0400/18	0500/01	0200/20	0400/01
MIN.	174.52	174.79	174.79	174.71	174.99	175.01	175.13	175.09	174.91	174.73	174.83	174.86
	2200/04	0500/03	1500/15	1200/04	0300/30	0300/10	0200/19	1900/31	1700/27	1500/18	1600/20	2100/20

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 175.04

ANNUAL SUMMARY OF LEVELS, 1981

Station 4052: St. Clair Shores, Michigan on Lake St. Clair

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	175.27	Jul	174.72	Jan
Daily mean elevation:	175.32	4 Oct	174.59	5 Jan
Instant/hourly elevation:	175.37	0600/28 Jul	174.58	0100/5 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.92	31 Jan
175.17	27 Feb
175.11	1 Mar
175.17	30 Apr
175.22	17 May
175.28	24 Jun
175.29	2 Jul
175.27	7 Aug
175.28	7 Sep
175.32	4 Oct
175.17	2 Nov
175.11	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.59	5 Jan
174.90	3 Feb
174.97	20 Mar
174.95	5 Apr
175.14	9 May
175.15	9 Jun
175.25	19 Jul
175.21	31 Aug
175.12	27 Sep
175.03	18 Oct
174.97	27 Nov
174.96	19 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
175.30										2			175.30	2
175.25						7	29	8	3	3			175.25	52
175.20					4	10	2	23	22	10			175.20	123
175.15		3		1	20	12			3	11	3		175.15	176
175.10		4	1	11	7	1			2	2	7	1	175.10	212
175.05		2	4	7						2	12	3	175.05	242
175.00		1	7	4						1	7	19	175.00	281
174.95		9	19	5							1	8	174.95	323
174.90	2	8		2									174.90	335
174.85	2	1											174.85	338
174.80	2												174.80	340
174.75	2												174.75	342
174.70	5												174.70	347
174.65	9												174.65	356
174.60	6												174.60	362
174.55	3												174.55	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4052: St. Clair Shores, Michigan on Lake St. Clair

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.73	174.91	175.11	174.95	175.18	175.17	175.28	175.27	175.21	175.26	175.17	175.11
2	174.66	174.91	175.09	175.01	175.17	175.17	175.29	175.25	175.22	175.26	175.17	175.00
3	174.62	174.90	175.09	174.99	175.17	175.16	175.28	175.25	175.23	175.31	175.16	175.03
4	174.59	174.92	175.07	174.99	175.15	175.17	175.28	175.23	175.22	175.32	175.15	175.04
5	174.59	174.94	175.06	174.95	175.15	175.17	175.28	175.24	175.25	175.29	175.14	175.03
6	174.60	174.94	175.05	174.99	175.15	175.16	175.27	175.24	175.27	175.21	175.05	175.04
7	174.62	174.94	175.03	175.00	175.14	175.17	175.27	175.27	175.28	175.18	175.10	175.03
8	174.64	174.93	175.04	175.00	175.15	175.17	175.26	175.26	175.24	175.22	175.11	174.97
9	174.63	174.94	175.03	175.01	175.14	175.15	175.26	175.26	175.25	175.23	175.12	174.97
10	174.63	174.97	175.02	175.02	175.16	175.16	175.27	175.26	175.22	175.24	175.11	174.99
11	174.65	175.00	175.00	175.03	175.18	175.17	175.27	175.24	175.23	175.22	175.10	175.01
12	174.67	175.00	174.98	175.07	175.19	175.19	175.27	175.24	175.22	175.23	175.12	175.04
13	174.68	174.99	174.99	175.07	175.20	175.21	175.27	175.23	175.22	175.21	175.10	175.03
14	174.69	174.98	174.99	175.06	175.21	175.21	175.27	175.23	175.23	175.18	175.10	175.03
15	174.70	174.98	174.98	175.11	175.20	175.21	175.27	175.23	175.23	175.16	175.09	175.01
16	174.69	174.97	175.00	175.11	175.21	175.20	175.26	175.25	175.24	175.16	175.08	174.99
17	174.70	174.98	174.97	175.10	175.22	175.21	175.26	175.26	175.27	175.17	175.06	175.03
18	174.70	175.00	175.00	175.11	175.21	175.22	175.25	175.26	175.24	175.03	175.05	174.99
19	174.70	175.02	174.99	175.12	175.20	175.23	175.25	175.26	175.20	175.06	175.11	174.96
20	174.71	175.06	174.97	175.14	175.18	175.24	175.28	175.25	175.20	175.06	175.04	174.99
21	174.72	175.10	175.00	175.13	175.18	175.24	175.27	175.24	175.24	175.14	175.02	175.02
22	174.72	175.11	175.01	175.14	175.17	175.24	175.28	175.24	175.25	175.16	175.05	175.03
23	174.74	175.13	175.00	175.10	175.17	175.27	175.28	175.22	175.24	175.13	175.09	175.04
24	174.77	175.15	175.00	175.09	175.16	175.28	175.27	175.22	175.23	175.16	175.10	175.04
25	174.80	175.16	175.00	175.10	175.15	175.25	175.26	175.21	175.23	175.17	175.09	175.06
26	174.82	175.17	175.00	175.13	175.16	175.27	175.26	175.21	175.21	175.18	175.09	175.07
27	174.85	175.17	175.00	175.13	175.17	175.27	175.27	175.21	175.12	175.19	174.97	175.06
28	174.89	175.13	175.00	175.14	175.17	175.27	175.28	175.21	175.15	175.23	175.01	175.04
29	174.90		174.99	175.15	175.17	175.26	175.28	175.21	175.19	175.25	175.04	175.05
30	174.91		174.99	175.17	175.17	175.27	175.28	175.21	175.24	175.22	175.07	175.04
31	174.92		175.02		175.17		175.28	175.21		175.20		175.05
MEAN	174.72	175.01	175.02	175.07	175.17	175.21	175.27	175.24	175.23	175.19	175.09	175.03
MAX.	174.92	175.18	175.13	175.20	175.24	175.30	175.37	175.31	175.33	175.34	175.19	175.22
	1500/31	1900/27	1200/01	2400/22	1200/17	0100/22	0600/28	2300/07	2400/30	1600/03	2100/02	0400/01
MIN.	174.58	174.90	174.88	174.88	175.10	175.12	175.19	175.17	175.04	174.94	174.91	174.93
	0100/05	1100/03	0800/17	1600/01	0200/30	2200/09	1500/09	2100/29	2200/27	1800/18	1600/20	1000/09

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 175.10

ANNUAL SUMMARY OF LEVELS, 1981

Station 4070: Algonac, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	175.42	Jul	175.04	Jan
Daily mean elevation:	175.47	3 Oct	174.91	9 Jan
Instant/hourly elevation:	175.56	1400/1 Oct	174.90	1300/9 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.28	30 Jan
175.31	26 Feb
175.28	2 Mar
175.32	30 Apr
175.35	16 May
175.44	29 Jun
175.44	30 Jul
175.44	15 Aug
175.45	10 Sep
175.47	3 Oct
175.32	1 Nov
175.26	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.91	9 Jan
175.17	1 Feb
175.16	28 Mar
175.17	2 Apr
175.24	6 May
175.32	1 Jun
175.41	27 Jul
175.36	28 Aug
175.34	29 Sep
175.27	21 Oct
175.21	19 Nov
175.16	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
175.45										3			175.45	3
175.40						9	31	18	5	4			175.40	70
175.35						9		13	21	5			175.35	118
175.30		2		2	23	12			2	16	4		175.30	179
175.25	3	6	2	13	7					3	12	1	175.25	226
175.20	2	12	7	6	1						14	13	175.20	281
175.15	1	8	22	9								17	175.15	338
175.10	3												175.10	341
175.05													175.05	341
175.00	5												175.00	346
174.95	11												174.95	357
174.90	6												174.90	363

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4070: Algonac, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	175.03	175.17	175.28	175.21	175.31	175.32	175.42	175.42	175.38	175.45	175.32	175.25
2	175.02	175.21	175.28	175.17	175.31	175.33	175.42	175.42	175.38	175.46	175.31	175.26
3	174.99	175.23	175.25	175.20	175.31	175.33	175.43	175.41	175.38	175.47	175.31	175.20
4	174.98	175.22	175.23	175.23	175.29	175.34	175.43	175.42	175.40*	175.46	175.30	175.19
5	174.96	175.19	175.21	175.21	175.28	175.34	175.42	175.41	/	175.42	175.30	175.21
6	174.93	175.20	175.22	175.18	175.24	175.34	175.42	175.41	/	175.43	175.31	175.22
7	175.01	175.18	175.21	175.19	175.27	175.34	175.42	175.41	175.45*	175.41	175.29	175.21
8	174.92	175.21	175.20	175.20	175.28	175.35	175.42	175.44	175.45	175.38	175.29	175.20
9	174.91	175.23	175.20	175.20	175.28	175.35	175.43	175.43	175.45	175.37	175.27	175.19
10	174.94	175.22	175.19	175.19	175.29	175.35	175.43	175.43	175.45	175.35	175.29	175.21
11	174.95	175.27	175.19	175.19	175.32	175.35	175.43	175.42	175.40	175.35	175.27	175.21
12	174.95	175.24	175.21	175.20	175.35	175.35	175.43	175.42	175.39	175.34	175.26	175.19
13	174.96	175.20	175.18	175.22	175.35	175.36	175.42	175.41	175.39	175.34	175.24	175.19
14	174.98	175.22	175.20	175.27	175.34	175.37	175.42	175.41	175.38	175.33	175.24	175.18
15	174.98	175.25	175.22	175.28	175.34	175.39	175.42	175.44	175.38	175.32	175.24	175.18
16	174.99	175.22	175.17	175.28	175.35	175.39	175.42	175.41	175.38	175.31	175.24	175.19
17	174.99	175.20	175.19	175.28	175.34	175.39	175.42	175.41	175.37	175.31	175.24	175.16
18	174.99	175.19	175.18	175.27	175.33	175.40	175.41	175.41	175.37	175.37	175.24	175.17
19	174.99	175.19	175.17	175.27	175.33	175.39	175.42	175.40	175.41	175.29	175.21	175.17
20	175.00	175.24	175.18	175.24	175.33	175.39	175.43	175.40	175.38	175.32	175.29	175.18
21	175.01	175.26	175.17	175.26	175.32	175.39	175.42	175.40	175.37	175.27	175.26	175.21
22	175.05	175.25	175.16	175.25	175.31	175.43	175.42	175.39	175.38	175.30	175.26	175.20
23	175.13	175.27	175.16	175.29	175.31	175.43	175.42	175.38	175.39	175.34	175.25	175.21
24	175.15	175.30	175.16	175.28	175.31	175.44	175.42	175.37	175.39	175.34	175.23	175.23
25	175.13	175.31	175.16	175.27	175.31	175.43	175.41	175.36	175.37	175.34	175.24	175.22
26	175.19	175.31	175.17	175.27	175.31	175.44	175.42	175.37	175.36	175.32	175.24	175.21
27	175.21	175.29	175.16	175.28	175.30	175.44	175.41	175.36	175.39	175.33	175.26	175.21
28	175.26	175.29	175.16	175.29	175.31	175.44	175.44	175.36	175.36	175.37	175.24	175.19
29	175.27		175.17	175.31	175.32	175.44	175.44	175.37	175.34	175.36	175.23	175.21
30	175.28		175.19	175.32	175.31	175.42	175.44	175.40	175.35	175.35	175.22	175.20
31	175.24		175.17		175.31		175.43	175.39		175.32		175.16
MEAN	175.04	175.23	175.19	175.24	175.31	175.38	175.42	175.40	175.39	175.36	175.26	175.20
MAX.	175.29	175.34	175.31	175.38	175.37	175.46	175.52	175.51	175.53	175.56	175.38	175.32
	2100/28	0800/28	2300/01	2300/17	0400/30	0500/22	1100/28	0700/15	0300/10	1400/01	0900/20	1900/01
MIN.	174.90	175.14	175.12	175.14	175.21	175.30	175.34	175.34	175.31	175.23	175.14	175.12
	1300/09	1400/01	0900/27	0900/09	0700/06	2200/06	0100/18	0800/29	0800/30	0100/21	0300/20	1400/17

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 175.28

ANNUAL SUMMARY OF LEVELS, 1981

Station 4080: St. Clair S.P., St. Clair, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	175.86	Jul	175.63	Dec
Daily mean elevation:	176.21	2 Jan	175.49	21 Jan
Instant/hourly elevation:	176.35	1100/2 Jan	175.41	2100/21 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.21	2 Jan
175.74	25 Feb
175.72	2 Mar
175.77	30 Apr
175.82	12 May
175.87	25 Jun
175.90	29 Jul
175.89	16 Aug
175.91	8 Sep
175.94	2 Oct
175.81	6 Nov
175.72	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.49	21 Jan
175.56	1 Feb
175.56	28 Mar
175.58	3 Apr
175.70	4 May
175.75	3 Jun
175.83	25 Jul
175.79	29 Aug
175.77	30 Sep
175.70	31 Oct
175.59	26 Nov
175.52	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.20	1												176.20	1
176.15	2												176.15	3
176.10	1												176.10	4
176.05													176.05	4
176.00													176.00	4
175.95	1												175.95	5
175.90	1								1	3			175.90	10
175.85						5	18	11	8	1			175.85	53
175.80	1				2	11	13	17	17	4	1		175.80	119
175.75				2	18	12		3	4	13			175.75	171
175.70		8	1	11	10	2				9	10	2	175.70	224
175.65	3	10	8	6	1					1	16	3	175.65	272
175.60	3	6	12	8							2	20	175.60	323
175.55	5	4	10	3							1	5	175.55	351
175.50	10											1	175.50	362
175.45	3												175.45	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4080: St. Clair S.P., St. Clair, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.11	175.56	175.69	175.60	175.75	175.76	175.86	175.85	175.80	175.80	175.74	175.59
2	176.21	175.64	175.72	175.61	175.75	175.75	175.85	175.84	175.84	175.94	175.74	175.64
3	176.18	175.67	175.69	175.58	175.72	175.75	175.85	175.85	175.84	175.91	175.72	175.64
4	176.16	175.74	175.65	175.60	175.70	175.77	175.85	175.86	175.89	175.86	175.72	175.64
5	175.98	175.72	175.66	175.66	175.73	175.77	175.86	175.86	175.89	175.84	175.70	175.68
6	175.82	175.72	175.67	175.64	175.74	175.78	175.85	175.84	175.89	175.85	175.81	175.65
7	175.92	175.66	175.67	175.61	175.72	175.78	175.85	175.84	175.87	175.92	175.75	175.64
8	175.55	175.63	175.65	175.63	175.73	175.76	175.85	175.86	175.91	175.84	175.73	175.71
9	175.49	175.66	175.64	175.66	175.72	175.79	175.87	175.86	175.90	175.80	175.75	175.70
10	175.54	175.64	175.63	175.63	175.78	175.78	175.87	175.86	175.88	175.77	175.70	175.72
11	175.57	175.69	175.64	175.63	175.81	175.79	175.86	175.86	175.83	175.79	175.74	175.68
12	175.52	175.72	175.63	175.65	175.82	175.78	175.86	175.85	175.84	175.78	175.67	175.63
13	175.52	175.72	175.67	175.64	175.80	175.79	175.87	175.86	175.84	175.75	175.67	175.62
14	175.54	175.72	175.64	175.73	175.78	175.78	175.89	175.84	175.85	175.73	175.67	175.61
15	175.53	175.63	175.66	175.72	175.80	175.81	175.86	175.88	175.85	175.77	175.66	175.62
16	175.60	175.60	175.64	175.70	175.80	175.82	175.86	175.89	175.85	175.78	175.66	175.63
17	175.56	175.60	175.68	175.71	175.79	175.83	175.85	175.86	175.85	175.71	175.67	175.61
18	175.55	175.59	175.64	175.73	175.78	175.81	175.85	175.86	175.83	175.75	175.69	175.62
19	175.54	175.62	175.63	175.71	175.77	175.84	175.85	175.85	175.86	175.79	175.67	175.64
20	175.53	175.70	175.64	175.73	175.77	175.82	175.86	175.85	175.84	175.76	175.74	175.61
21	175.49	175.68	175.61	175.70	175.77	175.83	175.89	175.85	175.82	175.75	175.73	175.57
22	175.50	175.65	175.60	175.67	175.76	175.87	175.87	175.83	175.85	175.74	175.70	175.61
23	175.62	175.66	175.60	175.68	175.74	175.86	175.85	175.83	175.85	175.78	175.67	175.62
24	175.60	175.70	175.60	175.73	175.74	175.83	175.85	175.83	175.83	175.77	175.66	175.63
25	175.54	175.74	175.60	175.73	175.76	175.87	175.83	175.81	175.80	175.75	175.66	175.63
26	175.58	175.72	175.58	175.71	175.77	175.86	175.87	175.81	175.78	175.75	175.59	175.60
27	175.64	175.67	175.60	175.71	175.77	175.85	175.87	175.80	175.82	175.78	175.64	175.57
28	175.67	175.67	175.56	175.73	175.77	175.84	175.90	175.79	175.87	175.81	175.70	175.61
29	175.68		175.58	175.76	175.76	175.84	175.90	175.79	175.81	175.76	175.68	175.62
30	175.69		175.60	175.77	175.78	175.86	175.88	175.82	175.77	175.74	175.65	175.59
31	175.64		175.60		175.78		175.85	175.81		175.70		175.52
MEAN	175.68	175.67	175.63	175.68	175.76	175.81	175.86	175.84	175.84	175.79	175.70	175.63
MAX.	176.35	175.81	175.86	175.84	175.86	175.93	175.95	175.95	175.97	175.99	175.90	175.77
	1100/02	1300/04	1000/17	1000/14	2400/11	1700/25	1000/21	2000/04	0200/09	0800/02	2100/08	1100/08
MIN.	175.41	175.49	175.53	175.48	175.66	175.64	175.73	175.74	175.72	175.53	175.53	175.47
	2100/21	1100/01	2400/28	2200/03	0600/04	0100/12	1900/02	0500/29	2200/30	0100/18	1800/26	0900/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 175.74

ANNUAL SUMMARY OF LEVELS, 1981

Station 4084: Marysville, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.09	Jul	Monthly mean elevation:	175.85	Dec
Daily mean elevation:	176.31	7 Jan	Daily mean elevation:	175.72	31 Dec
Instant/hourly elevation:	176.55	0200/7 Jan	Instant/hourly elevation:	175.64	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.31	7 Jan
175.95	25 Feb
175.96	2 Mar
175.99	30 Apr
176.06	12 May
176.10	30 Jun
176.13	29 Jul
176.14	16 Aug
176.15	8 Sep
176.19	2 Oct
176.08	6 Nov
175.99	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.73	25 Jan
175.75	1 Feb
175.78	28 Mar
175.80	3 Apr
175.92	4 May
175.97	8 Jun
176.05	25 Jul
176.00	29 Aug
175.99	26 Sep
175.92	31 Oct
175.79	26 Nov
175.72	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.30	1												176.30	1
176.25	3												176.25	4
176.20													176.20	4
176.15	2									2			176.15	8
176.10							6	2	6	1			176.10	23
176.05	1				2	9	24	22	18	3	1		176.05	103
176.00					9	14	1	6	4	8			176.00	145
175.95			1	7	18	7		1	2	12	8	3	175.95	204
175.90	3	4	6	8	2					5	10	2	175.90	244
175.85	8	13	11	8							10	6	175.85	300
175.80	7	7	9	5								14	175.80	342
175.75	5	3	3	2							1	4	175.75	360
175.70	1	1										2	175.70	364

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4084: Marysville, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.18	175.75	175.91	175.80	175.98	175.99	176.09	176.08	176.03	175.99	175.96	175.79
2	176.27	175.86	175.96	175.85	175.98	175.98	176.08	176.07	176.09	176.19	175.97	175.83
3	176.26	175.88	175.92	175.80	175.94	175.98	176.08	176.08	176.08	176.13	175.94	175.87
4	176.30	175.93	175.87	175.81	175.92	176.00	176.08	176.09	176.13	176.07	175.95	175.88
5	176.19	175.89	175.90	175.89	175.97	175.99	176.09	176.10	176.13	176.05	175.92	175.91
6	176.10	175.89	175.91	175.88	176.00	176.01	176.08	176.08	176.13	176.08	176.08	175.87
7	176.31	175.83	175.91	175.82	175.97	176.01	176.08	176.07	176.10	176.18	176.00	175.86
8	175.93	175.81	175.88	175.85	175.96	175.97	176.08	176.09	176.15	176.08	175.97	175.96
9	175.87	175.86	175.86	175.88	175.96	176.03	176.10	176.09	176.12	176.03	175.99	175.97
10	175.93	175.82	175.86	175.85	176.03	176.02	176.10	176.08	176.10	175.99	175.92	175.99
11	175.93	175.88	175.88	175.88	176.06	176.02	176.10	176.09	176.07	176.02	175.98	175.92
12	175.85	175.90	175.85	175.88	176.06	176.02	176.09	176.09	176.08	176.00	175.90	175.85
13	175.81	175.88	175.92	175.87	176.03	176.01	176.11	176.09	176.07	175.96	175.89	175.85
14	175.81	175.88	175.88	175.96	176.01	175.99	176.13	176.07	176.09	175.94	175.89	175.84
15	175.80	175.81	175.90	175.95	176.03	176.03	176.10	176.11	176.09	175.99	175.88	175.85
16	175.88	175.79	175.90	175.93	176.03	176.05	176.10	176.14	176.09	176.03	175.88	175.86
17	175.87	175.80	175.95	175.94	176.01	176.06	176.09	176.10	176.10	175.92	175.91	175.85
18	175.87	175.80	175.88*	175.98	176.00	176.03	176.08	176.09	176.07	175.95	175.93	175.85
19	175.85	175.83	/	175.94	176.00	176.08	176.07	176.09	176.10	176.04	175.91	175.88
20	175.84	175.91	175.88*	175.97	176.00	176.04	176.10	176.08	176.08	175.99	175.98	175.83
21	175.80	175.89	175.84	175.92	175.99	176.05	176.13	176.07	176.06	176.00	175.98	175.76
22	175.85	175.85	175.82	175.87	175.99	176.10	176.10	176.06	176.10	175.97	175.94	175.82
23	175.80	175.84	175.83	175.88	175.98	176.09	176.08	176.06	176.09	176.02	175.90	175.83
24	175.78	175.88	175.84	175.96	175.97	176.05	176.07	176.08	176.06	175.99	175.88	175.83
25	175.73	175.95	175.83	175.97	175.99	176.10	176.05	176.05	176.02	175.97	175.88	175.84
26	175.79	175.93	175.80	175.95	176.00	176.10	176.10	176.04	175.99	175.98	175.79	175.80
27	175.86	175.86	175.83	175.94	176.02	176.08	176.11	176.03	176.05	176.02	175.86	175.75
28	175.87	175.87	175.78	175.95	176.00	176.05	176.13	176.01	176.13	176.03	175.95	175.81
29	175.89		175.80	175.98	175.99	176.06	176.13	176.00	176.05	175.97	175.92	175.83
30	175.89		175.82	175.99	176.02	176.10	176.10	176.04	176.00	175.94	175.88	175.80
31	175.84		175.83		176.02		176.08	176.03		175.92		175.72
MEAN	175.93	175.86	175.87	175.90	176.00	176.04	176.09	176.07	176.08	176.01	175.93	175.85
MAX.	176.55	176.01	176.17	176.14	176.13	176.17	176.20	176.18	176.23	176.27	176.20	176.04
	0200/07	1200/04	1000/17	1000/14	0100/12	1700/25	2200/28	0800/16	0100/09	0200/02	1000/06	2400/09
MIN.	175.67	175.68	175.73	175.67	175.89	175.92	176.01	175.95	175.93	175.80	175.72	175.64
	1300/25	1000/01	1600/28	2200/03	0700/04	1000/08	0900/25	0500/29	0100/10	0200/18	1700/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 175.97

ANNUAL SUMMARY OF LEVELS, 1981

Station 4087: Dry Dock, Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.23	Jul	175.99	Dec
Daily mean elevation:	176.43	7 Jan	175.81	31 Dec
Instant/hourly elevation:	176.60	0200/7 Jan	175.70	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.43	7 Jan
176.10	25 Feb
176.11	17 Mar
176.14	30 Apr
176.22	11 May
176.24	30 Jun
176.28	29 Jul
176.28	16 Aug
176.30	8 Sep
176.34	7 Oct
176.24	6 Nov
176.17	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.92	26 Jan
175.86	1 Feb
175.92	28 Mar
175.92	3 Apr
176.05	4 May
176.10	8 Jun
176.19	25 Jul
176.13	29 Aug
176.10	26 Sep
176.04	31 Oct
175.89	26 Nov
175.81	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.40	1												176.40	1
176.35	1												176.35	2
176.30	5									2			176.30	9
176.25	1						4	1	6	1			176.25	22
176.20	5				2	7	26	18	15	3	1		176.20	99
176.15	6				10	14	1	10	5	9		1	176.15	155
176.10	3		2	7	14	8		2	3	7	8	2	176.10	211
176.05	2	4	4	8	4	1			1	7	7	2	176.05	251
176.00	4	6	13	8	1					2	12	7	176.00	304
175.95	1	10	8	4							1	12	175.95	340
175.90	2	7	4	3								4	175.90	360
175.85		1									1	2	175.85	364
175.80												1	175.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4087: Dry Dock, Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.24	175.86	176.05	175.92	176.13	176.13	176.24	176.21	176.15	176.10	176.10	175.91
2	176.34	175.99	176.11	176.00	176.13	176.12	176.21	176.20	176.24	176.33	176.11	175.95
3	176.32	176.01	176.06	175.92	176.08	176.11	176.21	176.21	176.23	176.26	176.08	176.01
4	176.37	176.06	176.01	175.93	176.05	176.15	176.22	176.22	176.27	176.18	176.09	176.03
5	176.25	175.99	176.05	176.04	176.12	176.13	176.23	176.24	176.28	176.18	176.05	176.06
6	176.17	176.00	176.06	176.03	176.17	176.16	176.22	176.22	176.27	176.21	176.24	176.01
7	176.43	175.94	176.06	175.96	176.10	176.16	176.22	176.20	176.24	176.34	176.15	176.01
8	176.33	175.94	176.03	175.98	176.10	176.10	176.22	176.22	176.30	176.23	176.12	176.12
9	176.29	175.99	176.01	176.04	176.09	176.17	176.25	176.23	176.27	176.16	176.15	176.14
10	176.34	175.94	176.01	175.99	176.18	176.16	176.24	176.21	176.24	176.13	176.04	176.17
11	176.31	176.01	176.03	176.03	176.22	176.17	176.23	176.23	176.20	176.16	176.13	176.08
12	176.22	176.03	175.99	176.03	176.21	176.15	176.22	176.22	176.23	176.13	176.04	175.99
13	176.18	175.99	176.08	176.02	176.17	176.15	176.25	176.22	176.22	176.09	176.04	175.98
14	176.21	176.01	176.02	176.12	176.16	176.13	176.28	176.20	176.23	176.07	176.03	175.97
15	176.19	175.93	176.05	176.10	176.18	176.16	176.24	176.24	176.24	176.13	176.03	175.99
16	176.24	175.91	176.05	176.06	176.18	176.19	176.23	176.28	176.24	176.17	176.03	176.01
17	176.19	175.92	176.11	176.07	176.16	176.20*	176.23	176.24	176.25	176.05	176.06	176.00
18	176.19	175.93	176.03	176.13	176.15	176.16	176.22	176.23	176.22	176.07	176.08	176.01
19	176.17	175.97	176.02	176.09	176.15	176.22	176.21	176.22	176.24	176.24*	176.05	176.05
20	176.15	176.06	176.04	176.13	176.14	176.19	176.24	176.21	176.22	176.19*	176.13	175.98
21	176.10	176.03	175.99	176.07	176.13	176.19	176.28	176.21	176.20	176.15	176.14	175.89
22	176.15	175.98	175.97	176.02	176.13	176.24	176.24	176.19	176.24	176.11	176.09	175.96
23	176.11	175.97	175.98	176.01	176.11	176.23	176.22	176.19	176.24	176.16	176.04	175.96
24	176.08	176.01	175.98	176.12	176.12	176.19	176.21	176.22	176.19	176.14	176.03	175.97
25	175.94	176.10	175.97	176.12	176.12	176.24	176.19	176.18	176.14	176.10	176.01	175.98
26	175.92	176.08	175.94	176.08	176.14	176.24	176.25	176.17	176.10	176.12	175.89	175.94
27	176.01	175.99	175.98	176.09	176.16	176.22	176.25	176.17	176.17	176.17	175.99	175.88
28	176.01	176.00	175.92	176.10	176.15	176.18	176.27	176.14	176.28	176.17	176.11	175.96
29	176.03		175.94	176.12	176.12	176.18	176.28	176.13	176.19	176.09	176.06	175.97
30	176.03		175.95	176.14	176.16	176.24	176.24	176.18	176.13	176.06	176.01	175.93
31	175.97		175.98		176.16		176.21	176.17		176.04		175.81
MEAN	176.18	175.99	176.02	176.05	176.14	176.18	176.23	176.21	176.22	176.15	176.07	175.99
MAX.	176.60	176.16	176.38	176.28	176.31	176.34	176.35	176.34	176.39	176.42	176.38	176.22
	0200/07	1200/04	0700/17	1000/14	2300/11	1700/25	0300/29	0800/16	0200/09	0800/02	1000/06	2400/09
MIN.	175.85	175.76	175.86	175.79	176.00	176.04	176.14	176.06	176.01	175.90	175.83	175.70
	2200/25	1000/01	1600/28	1000/01	1800/04	0900/08	0500/13	1600/29	0100/10	2400/17	2000/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.12

ANNUAL SUMMARY OF LEVELS, 1981

Station 4090: Mouth of Black River, Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	176.34	Sep	176.07	Feb
Daily mean elevation:	176.47	7 Oct	175.91	31 Dec
Instant/hourly elevation:	176.62	0200/7 Jan	175.78	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.46	7 Jan
176.20	25 Feb
176.23	17 Mar
176.25	30 Apr
176.33	12 May
176.37	25 Jun
176.40	21 Jul
176.41	16 Aug
176.43	8 Sep
176.47	7 Oct
176.36	6 Nov
176.30	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.99	26 Jan
175.93	1 Feb
176.03	28 Mar
176.02	4 Apr
176.17	4 May
176.21	8 Jun
176.29	25 Jul
176.24	29 Aug
176.20	26 Sep
176.13	31 Oct
176.00	26 Nov
175.91	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.45	1									2			176.45	3
176.40	1							1	3				176.40	8
176.35	3					4	8	3	8	1	1		176.35	36
176.30	4				2	8	22	20	13	3			176.30	108
176.25	3				13	12	1	5	3	9	3	2	176.25	159
176.20	9		2	9	13	6		2	2	7	5	2	176.20	216
176.15	2	3	8	7	3				1	7	9	2	176.15	258
176.10	2	3	9	8						2	10	9	176.10	301
176.05	4	14	9	3							1	9	176.05	341
176.00	1	6	3	3								4	176.00	358
175.95	1	1									1	2	175.95	363
175.90		1										1	175.90	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4090: Mouth of Black River, Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.25	175.93*	176.14	176.02	176.24	176.24	176.34	176.32	176.27	176.19	176.20*	176.01
2	176.36	176.07	176.22	176.11	176.24	176.24	176.32	176.31	176.37	176.46	176.22	176.05
3	176.35	176.09	176.17	176.02	176.18	176.23	176.32	176.32	176.35	176.38	176.19	176.12
4	176.41	176.13	176.10	176.02	176.17	176.27	176.33	176.33	176.39	176.29	176.20	176.14
5	176.31	176.06	176.16	176.16	176.23	176.24	176.33	176.36	176.41	176.28	176.16	176.19
6	176.24	176.07	176.18	176.15	176.30	176.28	176.33	176.33	176.39	176.32	176.36	176.11
7	176.46	176.02	176.17	176.06	176.22	176.28	176.33	176.31	176.35	176.47	176.27	176.11
8	176.38	176.03	176.14	176.08	176.21	176.21	176.33	176.33	176.43	176.35	176.24	176.25
9	176.32	176.08	176.11	176.15	176.20	176.28	176.36	176.34	176.39	176.28	176.27	176.27
10	176.37	176.01	176.11	176.10	176.30	176.28	176.35	176.32	176.35	176.24	176.14	176.30
11	176.35	176.08	176.14	176.14	176.33	176.28	176.35	176.34	176.31	176.27	176.23	176.21
12	176.27*	176.11	176.09	176.14	176.33	176.27	176.34	176.33	176.34	176.25	176.14	176.11
13	176.24	176.06	176.20	176.12	176.28	176.27	176.36	176.33	176.34	176.20	176.15	176.09
14	176.26	176.08	176.13	176.24	176.27	176.24	176.40	176.31	176.36	176.18	176.15	176.08
15	176.24	176.01	176.17	176.21	176.30	176.26	176.35	176.36	176.36	176.24	176.14	176.11
16	176.28	176.00	176.17	176.17	176.29	176.31	176.34	176.41	176.35	176.29	176.15	176.12
17	176.25	176.01	176.23	176.18	176.27	176.32	176.33	176.36	176.36	176.13*	176.18	176.12
18	176.24	176.03	176.15	176.25	176.26	176.27	176.33	176.35	176.33	176.17	176.20	176.13
19	176.23	176.07	176.13	176.20	176.26	176.35	176.32	176.34	176.35	176.31	176.17	176.17
20	176.22	176.17	176.16	176.25	176.25	176.31	176.34	176.34	176.33	176.23	176.25	176.08
21	176.16	176.14	176.11	176.18	176.25	176.31	176.40	176.33	176.31	176.26	176.27	175.99
22	176.21	176.07	176.09	176.12	176.25	176.36	176.35	176.31	176.36	176.22	176.20	176.07
23	176.18	176.07	176.09	176.11	176.23	176.35	176.33	176.31	176.35	176.27	176.15	176.08
24	176.15	176.10	176.10	176.23	176.23	176.30	176.32	176.35	176.30	176.24	176.14	176.08
25	176.02	176.20	176.08	176.24	176.23	176.37	176.29	176.30	176.25	176.20	176.13	176.09
26	175.99	176.19	176.05	176.19	176.25	176.36	176.36	176.28	176.20	176.23	176.00	176.04
27	176.10	176.09	176.10	176.20	176.28	176.34	176.37	176.28	176.28	176.28	176.10	175.98
28	176.08	176.09	176.03	176.21	176.26	176.29	176.38	176.25	176.41	176.27	176.24	176.06
29	176.10		176.05	176.24	176.23	176.31	176.39	176.24	176.31	176.20	176.19	176.07
30	176.11		176.06	176.25	176.27	176.36	176.35	176.29	176.24	176.17	176.13	176.04
31	176.08*		176.09		176.27		176.31	176.28		176.13		175.91
MEAN	176.23	176.07	176.13	176.16	176.25	176.29	176.34	176.32	176.34	176.26	176.19	176.10
MAX.	176.62	176.24	176.53	176.41	176.42	176.47	176.48	176.46	176.52	176.55	176.52	176.35
	0200/07	1200/04	0900/17	2300/14	2400/11	1700/25	0200/14	0800/16	0200/09	0800/02	1000/06	0100/10
MIN.	175.93	175.85	175.95	175.84	176.13	176.13	176.23	176.19	176.13	175.98	175.92	175.78
	2200/25	1300/01	2300/28	0900/04	0600/04	0400/14	0500/13	1300/29	0100/10	2400/17	1900/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.22

ANNUAL SUMMARY OF LEVELS, 1981

Station 4096: Dunn Paper Co., Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.48	Jul	176.20	Feb
Daily mean elevation:	176.61	7 Oct	176.02	31 Dec
Instant/hourly elevation:	176.76	0900/17 Mar	175.88	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.52	7 Jan
176.33	25 Feb
176.38	17 Mar
176.42	20 Apr
176.49	11 May
176.50	30 Jun
176.54	21 Jul
176.50	5 Aug
176.59	8 Sep
176.61	7 Oct
176.53	6 Nov
176.45	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.13	26 Jan
176.06	1 Feb
176.16	28 Mar
176.13	4 Apr
176.30	4 May
176.35	8 Jun
176.44	25 Jul
176.36	29 Aug
176.33	26 Sep
176.27	31 Oct
176.12	26 Nov
176.02	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.60										1			176.60	1
176.55									2	1			176.55	4
176.50	1						6		4		1		176.50	16
176.45	1				4	8	21	14	13	3			176.45	80
176.40	4			1	12	14	4	12	5	9	3	2	176.40	146
176.35	2		2	7	11	7		2	3	8	4	1	176.35	193
176.30	10	2	7	9	3	1			1	4	9	3	176.30	242
176.25	5	2	9	5	1					5	11	6	176.25	286
176.20	5	7	9	4							1	7	176.20	319
176.15	1	10	4	1								8	176.15	343
176.10	2	6		3							1	1	176.10	356
176.05		1										2	176.05	359
176.00												1	176.00	360

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4096: Dunn Paper Co., Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.33	176.06	176.28	176.15	176.39	176.38	176.49	176.45	176.38*	176.30	176.35	176.13
2	176.42	176.22	176.36	176.25	176.38	176.38	176.47	176.44	176.50*	176.58	176.35	176.17
3	176.41	176.22	176.31	176.15	176.32	176.37	176.46	176.46	176.49*	176.49	176.32	176.26
4	176.46	176.25	176.24	176.13	176.30	176.41	176.46	176.48	176.51*	176.41	176.34	176.29
5	176.34	176.17	176.31	176.31	176.38	176.38	176.48	176.50	176.55*	176.40	176.30	176.32
6	176.27	176.18	176.32	176.30	176.46	176.42	176.47	176.47	/	176.45	176.53	176.26
7	176.52	176.13	176.32	176.20	176.38	176.42	176.46	176.44	/	176.61	176.42	176.24
8	176.42	176.15	176.28	176.22	176.35	176.35	176.46	176.46	176.59*	176.48	176.37	176.40
9	176.37	176.20	176.26	176.31	176.34	176.43	176.50	176.47	176.52	176.41	176.41	176.42
10	176.43	176.14	176.26	176.25	176.46	176.42	176.49	176.45	176.48	176.37	176.27	176.45
11	176.40	176.21	176.29	176.29	176.49	176.42	176.48	176.47	176.45	176.41	176.39	176.35
12	176.32	176.21	176.23	176.30	176.48	176.42	176.47	176.47	176.48	176.38	176.28	176.24
13	176.30	176.17	176.35	176.27	176.42	176.41	176.51	176.46	176.47	176.33	176.28	176.22
14	176.32	176.19	176.28	176.39	176.42	176.38	176.54	176.43*	176.50	176.31	176.28	176.22
15	176.30	176.13	176.30	176.35	176.44	176.39	176.49	/	176.50	176.38	176.27	176.25
16	176.35	176.12	176.32	176.31	176.43	176.45	176.49	/	176.50	176.43	176.28	176.26
17	176.31	176.14	176.38	176.32	176.42	176.46	176.48	/	176.51	176.27	176.31	176.26
18	176.31	176.16	176.30	176.40	176.41	176.40	176.47	176.49*	176.47	176.28	176.34	176.26
19	176.31	176.20	176.28	176.35	176.41	176.48	176.45	176.48	176.48	176.46	176.31	176.31
20	176.31	176.30	176.31	176.42	176.40	176.44	176.48	176.48	176.47	176.36	176.38	176.22
21	176.25	176.27	176.25	176.33	176.39	176.44	176.54	176.46	176.45	176.42	176.41	176.10
22	176.31	176.20	176.23	176.27	176.39	176.50	176.50	176.45	176.50	176.37	176.35	176.20
23	176.29	176.18	176.23	176.23	176.37	176.49	176.47	176.45	176.48	176.41	176.29	176.20
24	176.26	176.22	176.25	176.38	176.38	176.43	176.45	176.49	176.43	176.38	176.28	176.19
25	176.14	176.33	176.23	176.39	176.37	176.50	176.44	176.44	176.38	176.34	176.27	176.21
26	176.13	176.31	176.18	176.34	176.41	176.50	176.50	176.42	176.33	176.38	176.12	176.17
27	176.25	176.20	176.25	176.35	176.43	176.47	176.51	176.42	176.42	176.42	176.22	176.10
28	176.23	176.21	176.16	176.36	176.42	176.42	176.52	176.38	176.56	176.41	176.38	176.19
29	176.25		176.18	176.38	176.38	176.43	176.53	176.36	176.44	176.32	176.33	176.20
30	176.25		176.20	176.39	176.43	176.50	176.49	176.42*	176.36	176.29	176.26	176.16
31	176.19		176.23		176.43		176.45	176.41		176.27		176.02
MEAN	176.31	176.20	176.27	176.30	176.40	176.43	176.48	176.45	176.47	176.39	176.32	176.23
MAX.	176.65	176.37	176.76	176.58	176.57	176.62	176.66	176.62	176.67	176.68	176.70	176.50
	0200/07	0400/26	0900/17	2300/14	2400/11	1700/25	2100/28	1700/04	0100/09	1100/07	1000/06	0900/08
MIN.	176.05	175.92	176.08	175.95	176.25	176.25	176.36	176.31	176.22	176.09	176.02	175.88
	2200/25	1000/01	2300/28	0900/04	1100/04	0400/14	0500/13	1600/29	0100/10	1100/18	1700/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.35

ANNUAL SUMMARY OF LEVELS, 1981

Station 4098: Fort Gratiot, Port Huron, Michigan on St. Clair River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.58	Jul	176.33	Dec
Daily mean elevation:	176.73	7 Oct	176.10	31 Dec
Instant/hourly elevation:	176.85	1000/6 Nov	175.95	2000/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
	Feb
	Mar
176.52	20 Apr
176.60	11 May
176.61	30 Jun
176.66	21 Jul
176.66	16 Aug
176.67	28 Sep
176.73	7 Oct
176.65	6 Nov
176.57	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
	Feb
	Mar
176.31	23 Apr
176.39	4 May
176.44	8 Jun
176.53	25 Jul
176.45	29 Aug
176.41	26 Sep
176.34	31 Oct
176.19	26 Nov
176.10	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.70										1			176.70	1
176.65							2	1	2	1			176.65	7
176.60						2	5	1	8		1		176.60	24
176.55					4	6	20	14	12	3		1	176.55	84
176.50				1	10	12	4	12	4	6	3	2	176.50	138
176.45				6	11	9		2	2	11	4		176.45	183
176.40				7	5	1		1	2	3	9	3	176.40	214
176.35				4	1					4	9	3	176.35	235
176.30				2						2	2	10	176.30	251
176.25											1	5	176.25	257
176.20												3	176.20	260
176.15											1	3	176.15	264
176.10													176.10	264
176.05												1	176.05	265

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 4098: Fort Gratiot, Port Huron, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	/	/	176.48	176.47	176.60	176.56	176.49	176.36	176.44	176.18
2	/	/	/	/	176.48	176.47	176.56	176.54	176.61	176.69	176.45	176.25
3	/	/	/	/	176.41	176.46	176.56	176.54	176.59	176.59	176.42	176.35
4	/	/	/	/	176.39	176.51	176.56	176.56	176.61	176.49	176.43	176.38
5	/	/	/	/	176.48	176.47	176.58	176.60	176.63	176.49	176.38	176.43
6	/	/	/	/	176.57	176.52	176.57	176.56	176.62	176.52	176.65	176.34
7	/	/	/	/	176.47	176.52	176.56	176.53	176.56	176.73	176.52	176.33
8	/	/	/	/	176.45	176.44	176.56	176.56	176.66	176.58	176.47	176.52
9	/	/	/	/	176.44	176.52	176.60	176.57	176.61	176.50	176.52	176.53
10	/	/	/	/	176.57	176.52	176.59	176.54	176.56	176.47	176.36	176.57
11	/	/	/	176.45*	176.60	176.52	176.57	176.57	176.53	176.51	176.49	176.45
12	/	/	/	176.38	176.57	176.51	176.56	176.57	176.57	176.47	176.38	176.34
13	/	/	/	176.36	176.51	176.50	176.61	176.57	176.57	176.42	176.37	176.31
14	/	/	/	176.48	176.51	176.46	176.66	176.53	176.60	176.39	176.37	176.31
15	/	/	/	176.44	176.54	176.48	176.59	176.59	176.61	176.48	176.37	176.34
16	/	/	/	176.38	176.53	176.54	176.59	176.66	176.60	176.54	176.37	176.35
17	/	/	/	176.40	176.52	176.56	176.57	176.61	176.62	176.35	176.41	176.36
18	/	/	/	176.49	176.51	176.49	176.57	176.59	176.57	176.36	176.44	176.36
19	/	/	/	176.44	176.50	176.60	176.55	176.58	176.58	176.58	176.41	176.42
20	/	/	/	176.52	176.49	176.54	176.58	176.57	176.57	176.46	176.48	176.31
21	/	/	/	176.42	176.48	176.54	176.66	176.55	176.56	176.53	176.52	176.18
22	/	/	/	176.34	176.49	176.60	176.60	176.54	176.61	176.47	176.44	176.28
23	/	/	/	176.31	176.45	176.59	176.57	176.54	176.59	176.51	176.38	176.28
24	/	/	/	176.47	176.45	176.52	176.55	176.58	176.52	176.47	176.38	176.27
25	/	/	/	176.49	176.46	176.61	176.53	176.53	176.48	176.43	176.35	176.30
26	/	/	/	176.43	176.49	176.60	176.61	176.51	176.41	176.47	176.19	176.25
27	/	/	/	176.43	176.53	176.56	176.62	176.51	176.51	176.52	176.30	176.18
28	/	/	/	176.44	176.52	176.50	176.62	176.47	176.67	176.50	176.48	176.30
29	/		/	176.47	176.46	176.53	176.64	176.45	176.54	176.41	176.42	176.31
30	/		/	176.48	176.52	176.61	176.59	176.51	176.45	176.38	176.35	176.25
31	/		/		176.53		176.55	176.50		176.34		176.10
MEAN	/	/	/	176.43	176.50	176.53	176.58	176.55	176.57	176.48	176.42	176.33
MAX.				176.70	176.73	176.74	176.78	176.73	176.80	176.82	176.85	176.63
				0300/20	1700/05	0600/22	2100/28	2400/15	0100/09	1100/07	1000/06	0900/08
MIN.				176.24	176.34	176.30	176.45	176.38	176.34	176.11	176.08	175.95
				1400/23	0500/03	0400/14	0500/13	1300/29	2200/30	1100/18	1700/26	2000/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.49

ANNUAL SUMMARY OF LEVELS, 1981

Station 5002: Lakeport, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	176.64	Jul	176.33	Feb
Daily mean elevation:	176.78	7 Oct	176.15	31 Dec
Instant/hourly elevation:	176.92	0900/17 Mar	176.01	1900/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.55	7 Jan
176.47	25 Feb
176.54	17 Mar
176.57	20 Apr
176.64	11 May
176.67	30 Jun
176.70	14 Jul
176.70	16 Aug
176.73	28 Sep
176.78	7 Oct
176.67	6 Nov
176.60	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.27	25 Jan
176.22	1 Feb
176.31	28 Mar
176.28	4 Apr
176.44	4 May
176.50	8 Jun
176.58	25 Jul
176.52	29 Aug
176.48	26 Sep
176.41	31 Oct
176.25	26 Nov
176.15	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.75										1			176.75	1
176.70									2	1			176.70	4
176.65						4	8	3	10		1		176.65	30
176.60					4	4	20	14	11	3			176.60	86
176.55				2	12	15	3	12	3	8	2	2	176.55	145
176.50	3		2	8	13	6		2	3	9	6	1	176.50	198
176.45	2	1	7	8		1			1	3	8	3	176.45	232
176.40	6	2	10	6	2					6	11	6	176.40	281
176.35	14	4	8	2								7	176.35	316
176.30	4	11	4	1							1	6	176.30	343
176.25	2	9		3								2	176.25	359
176.20		1									1	3	176.20	364
176.15													176.15	364
176.10												1	176.10	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5002: Lakeport, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.38	176.22	176.43	176.29	176.53	176.54	176.65	176.60	176.55	176.42	176.50	176.24
2	176.51	176.39	176.50	176.41	176.54	176.53	176.62	176.60	176.66	176.71	176.51	176.30
3	176.49	176.38	176.46	176.30	176.45	176.53	176.61	176.61	176.64	176.63	176.47	176.41
4	176.51	176.38	176.40	176.28	176.44	176.56	176.62	176.62	176.67	176.54	176.49	176.44
5	176.42	176.28	176.46	176.46	176.53	176.54	176.63	176.67	176.68	176.53	176.44	176.48
6	176.35	176.31	176.48	176.47	176.61	176.58	176.62	176.62	176.67	176.56	176.67	176.41
7	176.55	176.26	176.48	176.35	176.54	176.58	176.62	176.61	176.62	176.78	176.57	176.40
8	176.44	176.29	176.44	176.38	176.51	176.50	176.62	176.60	176.71	176.64	176.52	176.55
9	176.41	176.35	176.41	176.46	176.51	176.59	176.65	176.62	176.67	176.56	176.57	176.57
10	176.46	176.29	176.42	176.41	176.63	176.58	176.64	176.60	176.63	176.52	176.44	176.60
11	176.44	176.35	176.44	176.46	176.64	176.58	176.64	176.62	176.60	176.56	176.55	176.50
12	176.37	176.35	176.38	176.45	176.63	176.57	176.61	176.62	176.63	176.53	176.43	176.40
13	176.34	176.29	176.52	176.42	176.57	176.56	176.66	176.62	176.62	176.47	176.43	176.39
14	176.37	176.32	176.43	176.53	176.58	176.54	176.70	176.59	176.66	176.45	176.42	176.38
15	176.36	176.26	176.45	176.51	176.59	176.55	176.65	176.65	176.66	176.53	176.42	176.40
16	176.42	176.27	176.47	176.45	176.59	176.59	176.64	176.70	176.66	176.59	176.43	176.41
17	176.39	176.29	176.54	176.46	176.57	176.62	176.62	176.66	176.67	176.42	176.47	176.42
18	176.40	176.30	176.45	176.56	176.56	176.56	176.62	176.64	176.63	176.42	176.50	176.42
19	176.39	176.35	176.44	176.51	176.56	176.64	176.61	176.63	176.64	176.63	176.49	176.46
20	176.39	176.42	176.47	176.57	176.55	176.59	176.63	176.63	176.63	176.52	176.54	176.37
21	176.33	176.39	176.42	176.48	176.55	176.60	176.68*	176.61	176.62	176.58	176.55	176.23
22	176.40	176.33	176.39	176.41	176.55	176.67	176.66	176.59	176.67	176.53	176.50	176.35
23	176.40	176.31	176.39	176.37	176.52	176.64	176.62	176.60	176.64	176.57	176.44	176.33
24	176.38	176.35	176.40	176.53	176.52	176.58	176.60	176.64	176.58	176.53	176.44	176.34
25	176.27	176.47	176.38	176.55	176.53	176.66	176.58	176.59	176.53	176.49	176.42	176.36
26	176.28	176.45	176.33	176.49	176.56	176.66	176.66	176.57	176.48	176.52	176.25	176.31
27	176.42	176.35	176.40	176.49	176.59	176.62	176.67	176.57	176.56	176.57	176.34	176.22
28	176.37	176.35	176.31	176.51	176.58	176.57	176.67	176.53	176.73	176.56	176.55	176.34
29	176.40		176.32	176.54	176.54	176.58	176.68	176.52	176.61	176.47	176.48	176.35
30	176.40		176.34	176.55	176.60	176.67	176.64	176.57	176.52	176.42	176.42	176.29
31	176.34		176.38		176.60		176.60	176.56		176.41		176.15
MEAN	176.40	176.33	176.42	176.46	176.56	176.59	176.64	176.61	176.63	176.54	176.48	176.38
MAX.	176.77	176.61	176.92	176.75	176.72	176.76	176.79	176.78	176.86	176.86	176.82	176.67
	0100/07	0100/28	0900/17	2300/14	2300/11	1700/25	2100/28	2300/15	0600/28	1800/07	0900/06	1400/13
MIN.	176.15	176.11	176.21	176.09	176.36	176.42	176.51	176.45	176.39	176.17	176.11	176.01
	2000/21	1000/01	2300/28	0900/04	0500/04	2400/15	2100/17	0400/29	2200/30	0900/01	2300/26	1900/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.50

ANNUAL SUMMARY OF LEVELS, 1981

Station 5014: Harbor Beach, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	176.61	Jul	176.33	Feb
Daily mean elevation:	176.70	7 Oct	176.20	31 Dec
Instant/hourly elevation:	176.80	0400/28 Sep	176.10	2100/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.48	7 Jan
176.44	25 Feb
176.47	17 Mar
176.52	30 Apr
176.58	12 May
176.64	30 Jun
176.66	14 Jul
176.64	16 Aug
176.70	28 Sep
176.70	7 Oct
176.60	6 Nov
176.50	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.29	25 Jan
176.25	1 Feb
176.31	28 Mar
176.29	1 Apr
176.44	4 May
176.51	8 Jun
176.57	25 Jul
176.51	29 Aug
176.49	26 Sep
176.40	31 Oct
176.29	26 Nov
176.20	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.65							1		2	1			176.65	4
176.60						7	22	9	15	2			176.60	59
176.55					6	14	8	17	9	4	1		176.55	118
176.50				4	18	9		5	3	12	5		176.50	174
176.45	3		3	11	5				1	5	9	3	176.45	214
176.40	5	1	13	7	2					6	13	5	176.40	266
176.35	15	7	11	5						1		12	176.35	317
176.30	7	10	4	2							1	8	176.30	349
176.25	1	9		1							1	1	176.25	362
176.20		1										1	176.20	364
176.15												1	176.15	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5014: Harbor Beach, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.36	176.25	176.42	176.29	176.49	176.52	176.62	176.58	176.55	176.43	176.48	176.28
2	176.47	176.37	176.47	176.40	176.51	176.51	176.58	176.58	176.61	176.61	176.49	176.33
3	176.44	176.38	176.44	176.33	176.45	176.52	176.58	176.59	176.60	176.59	176.46	176.41
4	176.46	176.38	176.38	176.32	176.44	176.56	176.60	176.60	176.65	176.53	176.48	176.42
5	176.41	176.30	176.42	176.45	176.50	176.54	176.61	176.63	176.65	176.52	176.44	176.45
6	176.37	176.32	176.44	176.45	176.54	176.56	176.61	176.59	176.63	176.56	176.60	176.40
7	176.48	176.28	176.45	176.37	176.52	176.55	176.60	176.59	176.61	176.70	176.54	176.38
8	176.42	176.30	176.42	176.39	176.49	176.51	176.61	176.58	176.68	176.60	176.50	176.49
9	176.39	176.35	176.39	176.44	176.50	176.58	176.64	176.61	176.65	176.52	176.53	176.50
10	176.44	176.31	176.40	176.42	176.57	176.56	176.64	176.60	176.63	176.50	176.45	176.50
11	176.42	176.34	176.42	176.44	176.57	176.57	176.62	176.61	176.59	176.52	176.51	176.45
12	176.37	176.36	176.38	176.42	176.58	176.55	176.61	176.61	176.63	176.51	176.42	176.38
13	176.33	176.29	176.47	176.41	176.55	176.54	176.64	176.61	176.62	176.47	176.42	176.37
14	176.35	176.31	176.42	176.49	176.55	176.53	176.66	176.58	176.63	176.45	176.41	176.37
15	176.35	176.27	176.43	176.49	176.55	176.56	176.61	176.64	176.63	176.52	176.41	176.38
16	176.37	176.29	176.41	176.46	176.56	176.59	176.62	176.64	176.63	176.56	176.42	176.40
17	176.38	176.30	176.47	176.47	176.52	176.61	176.62	176.62	176.63	176.45	176.44	176.38
18	176.38	176.30	176.42	176.52	176.53	176.56	176.61	176.61	176.60	176.45	176.49	176.40
19	176.38	176.32	176.41	176.49	176.54	176.61	176.61	176.60	176.62	176.63	176.45	176.42
20	176.36	176.36	176.43	176.49	176.54	176.57	176.61	176.59	176.62	176.55	176.51	176.38
21	176.33	176.36	176.39	176.46	176.54	176.57	176.64	176.59	176.58	176.53	176.50	176.31
22	176.39	176.31	176.36	176.39	176.54	176.63	176.61	176.57	176.59	176.50	176.48	176.34
23	176.39	176.30	176.36	176.37	176.52	176.63	176.60	176.59	176.59	176.54	176.42	176.34
24	176.36	176.34	176.37	176.49	176.50	176.57	176.58	176.60	176.56	176.54	176.41	176.37
25	176.29	176.44	176.37	176.52	176.53	176.63	176.57	176.56	176.52	176.49	176.41	176.38
26	176.31	176.40	176.33	176.47	176.55	176.64	176.62	176.55	176.49	176.50	176.29	176.31
27	176.40	176.35	176.36	176.48	176.54	176.60	176.64	176.55	176.57	176.51	176.35	176.24
28	176.35	176.33	176.31	176.48	176.55	176.56	176.63	176.52	176.70	176.52	176.53	176.34
29	176.37		176.34	176.52	176.53	176.57	176.63	176.51	176.58	176.45	176.47	176.35
30	176.38		176.34	176.52	176.57	176.64	176.62	176.56	176.51	176.42	176.41	176.31
31	176.33		176.37		176.57		176.59	176.55		176.40		176.20
MEAN	176.38	176.33	176.40	176.44	176.53	176.57	176.61	176.59	176.60	176.52	176.46	176.37
MAX.	176.54	176.46	176.60	176.63	176.62	176.69	176.71	176.71	176.80	176.74	176.68	176.55
	0900/02	1700/25	0700/17	2200/14	0100/31	2200/25	1700/28	2200/15	0400/28	1000/07	0800/06	2300/09
MIN.	176.23	176.19	176.25	176.21	176.40	176.45	176.54	176.46	176.42	176.31	176.18	176.10
	1900/21	1500/01	2000/28	1100/01	0600/04	0300/21	1400/25	0500/29	2000/30	1500/01	1900/26	2100/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.48

ANNUAL SUMMARY OF LEVELS, 1981

Station 5035: Essexville, Michigan on Lake Huron (Saginaw Bay)

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	176.64	Jul	176.33	Feb
Daily mean elevation:	177.05	10 May	176.13	4 Apr
Instant/hourly elevation:	177.30	1400/10 May	175.83	1500/18 Oct

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.44	2 Jan
176.42	22 Feb
176.53	17 Mar
176.63	20 Apr
177.05	10 May
176.70	30 Jun
176.84	28 Jul
176.78	16 Aug
176.92	17 Sep
176.71	2 Oct
176.86	20 Nov
176.57	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.28	26 Jan
176.24	8 Feb
176.31	29 Mar
176.13	4 Apr
176.42	3 May
176.41	8 Jun
176.56	25 Jul
176.48	29 Aug
176.35	27 Sep
176.17	18 Oct
176.17	27 Nov
176.15	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
177.00					1								177.00	1
176.95					1								176.95	2
176.90									1				176.90	3
176.85											1		176.85	4
176.80							1		1				176.80	6
176.75								1	1				176.75	8
176.70					1		3		2	1			176.70	15
176.65						2	4	2	4	1			176.65	28
176.60				1	4	5	17	9	6	1			176.60	71
176.55				4	9	8	6	16	9	8	3	3	176.55	137
176.50			1	4	12	12		2	4	6	3		176.50	181
176.45			2	7	1	2		1	1	7	7	1	176.45	210
176.40	5	3	12	4	2	1				4	13	3	176.40	257
176.35	19	4	11	5						2		6	176.35	304
176.30	6	11	5	2					1		1	8	176.30	338
176.25	1	9		1							1	5	176.25	355
176.20		1										2	176.20	358
176.15										1	1	2	176.15	362
176.10				2								1	176.10	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5035: Essexville, Michigan on Lake Huron (Saginaw Bay)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.35	176.26	176.40	176.15	176.56	176.52	176.74	176.57	176.53	176.38	176.49	176.30
2	176.44	176.34	176.43	176.39	176.54	176.54	176.68	176.56	176.65	176.71	176.50	176.20
3	176.41	176.34	176.43	176.28	176.42	176.52	176.62	176.58	176.67	176.60	176.48	176.37
4	176.41	176.34	176.39	176.13	176.44	176.56	176.62	176.59	176.77	176.55	176.49	176.44
5	176.37	176.27	176.45	176.38	176.55	176.52	176.63	176.65	176.73	176.51	176.42	176.45
6	176.32	176.30	176.44	176.44	176.73	176.56	176.61	176.60	176.66	176.48	176.60	176.35
7	176.42	176.29	176.44	176.31	176.53	176.58	176.60	176.58	176.59	176.70	176.55	176.35
8	176.40	176.24	176.42	176.38	176.51	176.41	176.58	176.63	176.65	176.64	176.48	176.56
9	176.36	176.34	176.39	176.46	176.52	176.55	176.63	176.60	176.60	176.56	176.57	176.56
10	176.41	176.36	176.40	176.40	177.05	176.54	176.63	176.56	176.54	176.54	176.30	176.57
11	176.38	176.28	176.42	176.47	176.96	176.55	176.63	176.62	176.56	176.59	176.54	176.48
12	176.37	176.34	176.34	176.60	176.63	176.56	176.61	176.58	176.63	176.56	176.45	176.38
13	176.35	176.29	176.48	176.42	176.55	176.56	176.65	176.63	176.60	176.49	176.41	176.32
14	176.37	176.31	176.37	176.52	176.56	176.49	176.74	176.55	176.64	176.45	176.44	176.33
15	176.37	176.28	176.36	176.46	176.58	176.52	176.65	176.64	176.66	176.49	176.43	176.37
16	176.37	176.28	176.47	176.39	176.59	176.54	176.63	176.78	176.84	176.57	176.43	176.39
17	176.37	176.28	176.53	176.44	176.63	176.60	176.63	176.67	176.92	176.42	176.44	176.42
18	176.37	176.31	176.43	176.56	176.60	176.49	176.60	176.63	176.61	176.17	176.47	176.37
19	176.37	176.34	176.42	176.49	176.56	176.67	176.61	176.65	176.56	176.55	176.56	176.40
20	176.38	176.37	176.42	176.63	176.53	176.60	176.63	176.65	176.60	176.36	176.86	176.29
21	176.31	176.40	176.42	176.49	176.53	176.60	176.72	176.61	176.60	176.60	176.52	176.15
22	176.37	176.42	176.38	176.41	176.54	176.65	176.67	176.58	176.71	176.52	176.45	176.32
23	176.38	176.34	176.38	176.31	176.52	176.63	176.63	176.56	176.62	176.50	176.42	176.27
24	176.37	176.35	176.39	176.55	176.52	176.55	176.60	176.66	176.55	176.49	176.45	176.17
25	176.32	176.41	176.38	176.53	176.50	176.63	176.56	176.58	176.52	176.43	176.42	176.33
26	176.28	176.41	176.33	176.48	176.56	176.64	176.68	176.56	176.48	176.59	176.34	176.35
27	176.40	176.37	176.40	176.49	176.63	176.61	176.69	176.59	176.35	176.54	176.17	176.23
28	176.36	176.31	176.31	176.60	176.57	176.52	176.84	176.58	176.67	176.58	176.46	176.30
29	176.36		176.31	176.54	176.52	176.52	176.65	176.48	176.60	176.49	176.42	176.32
30	176.36		176.33	176.58	176.62	176.70	176.63	176.55	176.58	176.46	176.42	176.28
31	176.35		176.42		176.60		176.58	176.56		176.42		176.23
MEAN	176.37	176.33	176.40	176.44	176.59	176.56	176.64	176.60	176.62	176.51	176.47	176.35
MAX.	176.56	176.45	176.90	176.82	177.30	176.85	177.08	176.95	177.18	176.84	177.20	176.73
	1400/02	1500/10	1000/17	0500/20	1400/10	2000/30	2100/28	1200/16	2400/16	0500/02	0700/20	0900/08
MIN.	176.18	176.09	176.18	175.93	176.35	176.23	176.46	176.39	176.14	175.83	175.92	175.99
	1300/26	0200/08	1000/12	1500/01	1100/03	1000/08	0800/25	0800/29	0400/10	1500/18	0500/27	0700/24

* Indicates Less than 90% of the Hourly Data Available.
/ Indicates No Data.

ANNUAL MEAN: 176.49

ANNUAL SUMMARY OF LEVELS, 1981

Station 5059: Harrisville, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.59	Jul	176.32	Feb
Daily mean elevation:	176.62	9 Sep	176.23	27 Dec
Instant/hourly elevation:	176.67	2000/25 Jun	176.17	0200/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.41	2 Jan
176.38	25 Feb
176.42	15 Mar
176.50	25 Apr
176.54	31 May
176.60	30 Jun
176.62	14 Jul
176.60	15 Aug
176.62	9 Sep
176.58	7 Oct
176.49	7 Nov
176.40	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.30	25 Jan
176.27	1 Feb
176.32	26 Mar
176.30	1 Apr
176.45	4 May
176.48	2 Jun
176.56	31 Jul
176.50	29 Aug
176.47	26 Sep
176.40	31 Oct
176.33	27 Nov
176.23	27 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.60							2		3				176.60	5
176.55						14	29	22	17	2			176.55	89
176.50					16	12		8	7	5			176.50	137
176.45				7	13	4		1	3	17	3		176.45	185
176.40	1		2	13	2					6	15		176.40	224
176.35	15	2	20	7						1	10	11	176.35	290
176.30	14	17	9	2							2	14	176.30	348
176.25	1	9		1								4	176.25	363
176.20												2	176.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5059: Harrisville, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.33	176.27	176.40	176.30	176.46	176.50	176.57	176.56	176.52	176.43	176.45	176.33
2	176.41	176.32	176.40	176.38	176.49	176.48	176.57	176.56	176.57	176.49	176.45	176.35
3	176.38	176.35	176.41	176.33	176.45	176.50	176.57	176.56	176.56	176.54	176.44	176.39
4	176.38	176.33	176.37	176.34	176.45	176.53	176.57	176.56	176.60	176.50	176.45	176.37
5	176.40	176.31	176.37	176.41	176.48	176.53	176.58	176.59	176.59	176.48	176.43	176.40
6	176.36	176.31	176.39	176.42	176.49	176.54	176.59	176.57	176.58	176.49	176.49	176.37
7	176.38	176.30	176.40	176.38	176.49	176.53	176.59	176.56	176.57	176.58	176.49	176.37
8	176.38	176.29	176.38	176.38	176.47	176.50	176.59	176.56	176.60	176.55	176.45	176.39
9	176.36	176.34	176.38	176.43	176.47	176.55	176.60	176.59	176.62	176.49	176.47	176.38
10	176.39	176.32	176.38	176.42	176.49	176.54	176.61	176.57	176.61	176.46	176.43	176.39
11	176.36	176.28	176.39	176.42	176.48	176.55	176.60	176.58	176.58	176.49	176.45	176.38
12	176.36	176.34	176.38	176.39	176.54	176.52	176.60	176.59	176.59	176.48	176.40	176.35
13	176.32	176.29	176.40	176.38	176.52	176.51	176.60	176.58	176.59	176.45	176.41	176.35
14	176.34	176.31	176.40	176.42	176.52	176.52	176.62	176.56	176.57	176.45	176.39	176.34
15	176.34	176.29	176.42	176.48	176.51	176.55	176.59	176.60	176.58	176.49	176.38	176.34
16	176.33	176.30	176.37	176.46	176.54	176.58	176.60	176.59	176.59	176.51	176.38	176.35
17	176.37	176.32	176.40	176.45	176.49	176.59	176.60	176.59	176.57	176.46	176.39	176.33
18	176.36	176.31	176.38	176.48	176.51	176.56	176.58	176.59	176.56	176.43	176.43	176.33
19	176.35	176.31	176.37	176.46	176.52	176.57	176.58	176.56	176.57	176.57	176.40	176.33
20	176.34	176.31	176.38	176.45	176.52	176.55	176.58	176.56	176.56	176.52	176.41	176.34
21	176.32	176.34	176.37	176.44	176.52	176.57	176.60	176.55	176.54	176.50	176.41	176.33
22	176.37	176.29	176.34	176.38	176.52	176.59	176.59	176.54	176.52	176.47	176.43	176.32
23	176.36	176.29	176.35	176.36	176.49	176.60	176.58	176.56	176.53	176.49	176.39	176.30
24	176.34	176.33	176.35	176.45	176.49	176.57	176.56	176.56	176.52	176.51	176.37	176.37
25	176.30	176.38	176.35	176.50	176.51	176.60	176.56	176.53	176.49	176.47	176.39	176.36
26	176.31	176.37	176.32	176.45	176.52	176.60	176.57	176.52	176.47	176.46	176.33	176.30
27	176.37	176.34	176.34	176.45	176.50	176.58	176.60	176.52	176.52	176.46	176.33	176.23
28	176.33	176.31	176.33	176.45	176.52	176.56	176.59	176.52	176.61	176.48	176.45	176.30
29	176.33		176.35	176.48	176.51	176.57	176.60	176.50	176.53	176.42	176.42	176.31
30	176.34		176.34	176.49	176.54	176.60	176.60	176.54	176.48	176.41	176.39	176.30
31	176.33		176.36		176.54		176.56	176.54		176.40		176.24
MEAN	176.35	176.32	176.37	176.42	176.50	176.55	176.59	176.56	176.56	176.48	176.42	176.34
MAX.	176.47	176.40	176.48	176.55	176.59	176.67	176.66	176.63	176.66	176.61	176.59	176.44
	1100/02	1700/25	0600/17	1400/18	1500/13	2000/25	1700/28	0200/16	0100/09	0700/19	0500/20	0500/08
MIN.	176.27	176.21	176.28	176.21	176.40	176.45	176.52	176.45	176.43	176.35	176.17	176.18
	1000/26	0100/08	2000/28	1000/01	0300/04	2200/13	0200/13	0600/29	1900/30	0900/18	0200/27	1800/27

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.46

ANNUAL SUMMARY OF LEVELS, 1981

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.59	Jul	176.33	Feb
Daily mean elevation:	176.63	29 Jun	176.23	11 Feb
Instant/hourly elevation:	176.71	0200/29 Jun	176.17	0500/11 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.42	5 Jan
176.39	15 Feb
176.40	28 Mar
176.49	23 Apr
176.54	29 May
176.63	29 Jun
176.62	8 Jul
176.62	12 Aug
176.61	9 Sep
176.55	19 Oct
176.49	10 Nov
176.45	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.30	29 Jan
176.23	11 Feb
176.30	17 Mar
176.38	2 Apr
176.44	10 May
176.53	7 Jun
176.53	26 Jul
176.53	27 Aug
176.48	30 Sep
176.45	2 Oct
176.38	20 Nov
176.30	30 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
176.60						3	3	1	1			
176.55						17	25	24	12			
176.50					21	10	3	6	12	10		
176.45				9	9				5	20	5	
176.40	1			14	1					1	15	4
176.35	9	10	13	7							10	12
176.30	20	13	17									14
176.25	1	4	1									1
176.20		1										

Elev. (m.)	No. of days above elev.
176.60	8
176.55	86
176.50	148
176.45	196
176.40	232
176.35	293
176.30	357
176.25	364
176.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.36	176.36	176.38	176.39	176.47	176.53	176.57	176.59	176.59	176.52	176.46	176.45
2	176.36	176.28	176.32	176.38	176.49	176.54	176.58	176.58	176.56	176.45	176.45	176.42
3	176.34	176.34	176.38	176.40	176.53	176.54	176.60	176.58	176.56	176.49	176.46	176.39
4	176.31	176.29	176.37	176.44	176.52	176.54	176.60	176.58	176.56	176.50	176.46	176.38
5	176.42	176.38	176.35	176.39	176.48	176.56	176.60	176.57	176.57	176.50	176.48	176.40
6	176.35	176.31	176.34	176.39	176.47	176.53	176.60	176.57	176.57	176.48	176.41	176.43
7	176.31	176.36	176.35	176.43	176.49	176.53	176.61	176.58	176.60	176.47	176.45	176.39
8	176.36	176.31	176.36	176.39	176.49	176.57	176.62	176.58	176.55	176.49	176.44	176.36
9	176.33	176.32	176.37	176.42	176.48	176.55	176.59	176.60	176.61	176.49	176.43	176.33
10	176.36	176.28	176.36	176.45	176.44	176.55	176.60	176.60	176.58	176.49	176.49	176.33
11	176.32	176.23	176.36	176.42	176.47	176.56	176.60	176.60	176.58	176.48	176.41	176.36
12	176.38	176.34	176.38	176.42	176.51	176.55	176.61	176.62	176.58	176.48	176.44	176.36
13	176.35	176.35	176.31	176.45	176.52	176.55	176.59	176.58	176.59	176.51	176.44	176.37
14	176.35	176.34	176.38	176.39	176.51	176.57	176.58	176.60	176.54	176.53	176.42	176.36
15	176.36	176.39	176.35	176.47	176.52	176.59	176.59	176.58	176.55	176.49	176.42	176.34
16	176.31	176.37	176.34	176.49	176.51	176.60	176.59	176.55	176.52	176.49	176.42	176.33
17	176.37	176.37	176.30	176.46	176.50	176.59	176.60	176.57	176.52	176.55	176.40	176.32
18	176.34	176.36	176.33	176.43	176.51	176.62	176.60	176.56	176.57	176.51	176.39	176.31
19	176.35	176.33	176.32	176.45	176.52	176.57	176.59	176.56	176.54	176.55	176.38	176.31
20	176.34	176.29	176.33	176.43	176.53	176.57	176.58	176.55	176.52	176.51	176.38	176.39
21	176.36	176.32	176.35	176.47	176.53	176.58	176.56	176.56	176.50	176.49	176.39	176.42
22	176.33	176.32	176.35	176.47	176.52	176.57	176.58	176.56	176.50	176.51	176.41	176.34
23	176.34	176.35	176.35	176.49	176.52	176.59	176.58	176.57	176.51	176.48	176.40	176.36
24	176.34	176.36	176.33	176.45	176.53	176.60	176.59	176.53	176.52	176.54	176.39	176.38
25	176.38	176.31	176.35	176.47	176.54	176.58	176.58	176.54	176.52	176.51	176.41	176.31
26	176.34	176.33	176.35	176.45	176.53	176.57	176.53	176.55	176.55	176.47	176.45	176.32
27	176.32	176.38	176.35	176.45	176.51	176.59	176.55	176.53	176.55	176.46	176.41	176.35
28	176.33	176.37	176.40	176.44	176.52	176.63	176.55	176.56	176.49	176.46	176.40	176.31
29	176.30		176.38	176.47	176.54	176.63	176.57	176.58	176.48	176.47	176.40	176.31
30	176.32		176.37	176.47	176.51	176.57	176.58	176.59	176.48	176.49	176.40	176.30
31	176.35		176.36		176.52		176.59	176.58		176.49		176.35
MEAN	176.34	176.33	176.35	176.44	176.51	176.57	176.59	176.57	176.55	176.50	176.42	176.36
MAX.	176.49	176.48	176.47	176.57	176.63	176.71	176.65	176.65	176.70	176.65	176.59	176.52
	1800/05	0500/28	1300/28	0600/04	1200/24	0200/29	1500/31	0700/15	1700/09	0800/18	1000/10	0700/01
MIN.	176.20	176.17	176.18	176.31	176.40	176.48	176.49	176.50	176.41	176.35	176.30	176.24
	2300/06	0500/11	0900/17	2200/28	0100/10	0200/04	2400/25	0800/24	1400/29	0200/02	0700/06	1800/25

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.46

ANNUAL SUMMARY OF LEVELS, 1981
Station 5099: DeTour Village, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.57	Jul	176.32	Feb
Daily mean elevation:	176.61	29 Jun	176.18	11 Feb
Instant/hourly elevation:	176.66	1700/9 Sep	176.09	1000/11 Feb

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.42	5 Jan
176.37	5 Feb
176.39	14 Mar
176.48	30 Apr
176.52	31 May
176.61	29 Jun
176.60	8 Jul
176.60	12 Aug
176.60	9 Sep
176.55	19 Oct
176.47	10 Nov
176.44	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.27	16 Jan
176.18	11 Feb
176.30	17 Mar
176.32	14 Apr
176.42	11 May
176.50	2 Jun
176.51	26 Jul
176.51	27 Aug
176.44	30 Sep
176.37	2 Oct
176.25	20 Nov
176.27	18 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.60						1							176.60	1
176.55						13	23	15	8				176.55	60
176.50					12	15	8	16	11	4			176.50	126
176.45				4	14	1			9	16	1		176.45	171
176.40	1			13	5				2	9	14	2	176.40	217
176.35	4	2	13	11						2	11	7	176.35	267
176.30	21	19	17	2							2	14	176.30	342
176.25	5	6	1								1	8	176.25	363
176.20											1		176.20	364
176.15		1											176.15	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 5099: DeTour Village, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.30	176.34	176.39	176.34	176.43	176.51	176.55	176.57	176.56	176.40	176.44	176.39
2	176.35	176.27	176.33	176.40	176.48	176.50	176.56	176.56	176.55	176.37	176.44	176.37
3	176.32	176.35	176.38	176.37	176.50	176.51	176.58	176.56	176.53	176.49	176.44	176.39
4	176.29	176.29	176.36	176.42	176.49	176.53	176.58	176.56	176.54	176.49	176.45	176.34
5	176.42	176.37	176.33	176.37	176.46	176.53	176.58	176.56	176.54	176.47	176.44	176.38
6	176.37	176.32	176.33	176.40	176.44	176.52	176.58	176.56	176.56	176.42	176.38	176.41
7	176.28	176.35	176.35	176.42	176.48	176.53	176.60	176.55	176.58	176.47	176.45	176.38
8	176.37	176.29	176.36	176.38	176.48	176.53	176.60	176.55	176.52	176.49	176.41	176.29
9	176.33	176.34	176.36	176.41	176.45	176.54	176.58	176.59	176.60	176.46	176.43	176.28
10	176.35	176.31	176.36	176.44	176.42	176.54	176.59	176.58	176.57	176.45	176.47	176.28
11	176.31	176.18	176.36	176.40	176.42	176.55	176.59	176.58	176.56	176.46	176.41	176.32
12	176.37	176.36	176.38	176.38	176.50	176.53	176.58	176.60	176.56	176.46	176.42	176.33
13	176.33	176.33	176.31	176.41	176.51	176.52	176.57	176.57	176.57	176.47	176.43	176.35
14	176.33	176.33	176.39	176.32	176.51	176.54	176.58	176.57	176.52	176.49	176.41	176.35
15	176.35	176.35	176.37	176.48	176.49	176.57	176.56	176.57	176.53	176.47	176.39	176.31
16	176.27	176.35	176.32	176.48	176.51	176.59	176.57	176.53	176.50	176.49	176.38	176.31
17	176.36	176.35	176.30	176.45	176.48	176.59	176.59	176.54	176.48	176.53	176.37	176.29
18	176.34	176.35	176.33	176.40	176.49	176.59	176.57	176.55	176.53	176.44	176.39	176.27
19	176.35	176.31	176.31	176.44	176.51	176.57	176.57	176.53	176.53	176.55	176.36	176.28
20	176.33	176.27	176.32	176.38	176.52	176.55	176.56	176.53	176.50	176.52	176.25	176.36
21	176.33	176.32	176.35	176.45	176.52	176.55	176.54	176.54	176.50	176.48	176.32	176.44
22	176.34	176.30	176.33	176.42	176.52	176.56	176.55	176.54	176.45	176.48	176.40	176.34
23	176.34	176.30	176.33	176.39	176.50	176.59	176.56	176.55	176.49	176.46	176.39	176.31
24	176.34	176.34	176.33	176.39	176.50	176.58	176.55	176.53	176.50	176.54	176.35	176.38
25	176.35	176.32	176.34	176.46	176.52	176.57	176.56	176.52	176.50	176.50	176.40	176.35
26	176.32	176.33	176.33	176.45	176.52	176.57	176.51	176.53	176.51	176.45	176.42	176.31
27	176.33	176.35	176.32	176.44	176.50	176.58	176.55	176.51	176.50	176.43	176.28	176.28
28	176.32	176.33	176.38	176.42	176.51	176.60	176.52	176.53	176.52	176.45	176.41	176.31
29	176.28		176.38	176.45	176.52	176.61	176.55	176.55	176.49	176.43	176.40	176.31
30	176.31		176.34	176.48	176.48	176.57	176.58	176.57	176.44	176.43	176.39	176.30
31	176.35		176.37		176.52		176.56	176.57		176.44		176.33
MEAN	176.33	176.32	176.35	176.41	176.49	176.55	176.57	176.55	176.52	176.47	176.40	176.33
MAX.	176.47	176.41	176.45	176.54	176.56	176.64	176.63	176.63	176.66	176.63	176.51	176.50
	2200/05	0200/28	0700/15	1800/16	1800/03	0200/29	2000/03	1000/04	1700/09	2100/19	0900/10	0900/21
MIN.	176.18	176.09	176.18	176.18	176.37	176.47	176.45	176.49	176.40	176.23	176.20	176.23
	2400/06	1000/11	0900/17	1500/14	0800/11	0200/04	2100/26	2300/27	1700/30	2100/18	1100/20	2000/18

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.44

ANNUAL SUMMARY OF LEVELS, 1981

Station 6050: Frechette Point, Michigan on St. Marys River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.86	Jul	176.43	Dec
Daily mean elevation:	176.91	24 Jul	176.24	20 Nov
Instant/hourly elevation:	176.97	1400/4 Aug	176.08	2300/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.85	6 Jan
176.73	3 Feb
176.66	3 Mar
176.69	23 Apr
176.79	29 May
176.88	29 Jun
176.91	24 Jul
176.90	9 Aug
176.85	7 Sep
176.68	17 Oct
176.64	26 Nov
176.58	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.66	4 Jan
176.63	23 Feb
176.55	30 Mar
176.41	14 Apr
176.57	6 May
176.72	6 Jun
176.80	26 Jul
176.78	16 Aug
176.55	28 Sep
176.40	2 Oct
176.24	20 Nov
176.28	10 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.90							1						176.90	1
176.85						3	15	13					176.85	32
176.80	2					8	14	17	6				176.80	79
176.75	11				4	14	1	1	5				176.75	115
176.70	14	5			8	1			4				176.70	147
176.65	4	13	2	4	11				10	2			176.65	193
176.60		10	14	11	6				3	4	1		176.60	242
176.55			11	6	2					11	1	2	176.55	275
176.50			4	6					1	10	5	1	176.50	302
176.45				2						2	12	7	176.45	325
176.40				1						1	7	11	176.40	345
176.35										1	1	5	176.35	352
176.30											2	4	176.30	358
176.25												1	176.25	359
176.20											1		176.20	360

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 6050: Frechette Point, Michigan on St. Marys River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.77	176.73	176.66	176.54	176.60	176.77	176.83	176.88	176.84	176.61	176.52	176.56
2	176.77	176.69	176.63	176.56	176.66	176.77	176.84	176.88	176.81	176.40	176.49	176.47
3	176.75	176.73*	176.66	176.56	176.72	176.77	176.85	176.87	176.81	176.56	176.51	176.49
4	176.66	176.69	176.65	176.61	176.69	176.78*	176.84	176.90	176.81	176.60	176.52	176.42
5	176.82	176.72	176.62	176.49	176.63	176.80	176.82	176.88	176.80	176.56	176.50	176.44
6	176.85	176.71	176.62	176.55	176.57	176.72	176.83	176.89	176.82	176.48	176.33	176.55
7	176.75	176.71	176.62	176.58	176.64	176.78	176.84	176.89	176.85	176.41	176.53	176.48
8	176.80	176.70	176.63	176.53	176.69	176.80	176.86	176.88	176.72	176.54	176.47	176.33
9	176.80	176.70	176.63	176.55	176.65	176.77	176.82	176.90	176.80	176.54	176.47	176.31
10	176.77	176.69	176.63	176.64	176.62	176.78	176.87	176.87	176.76	176.54	176.57	176.28
11	176.75	176.63	176.62	176.59	176.61	176.79	176.89	176.84	176.78	176.55	176.44	176.38
12	176.77	176.69	176.65	176.61	176.67	176.79	176.88	176.88	176.74	176.57	176.49	176.41
13	176.77	176.70	176.60	176.62	176.65	176.80	176.85	176.88	176.76*	176.60	176.50	176.43
14	176.76	176.70	176.61	176.41	176.70	/	176.86	176.87	/	176.61	176.52	176.45
15	176.76	176.70	176.62	176.66	176.69	/	176.88	176.84	176.68*	176.54	176.49	176.39
16	176.72	176.70	176.58	176.67	176.70	/	176.88	176.78	176.68	176.57	176.47	176.38
17	176.75	176.70	176.60	176.65	176.67	/	176.89	176.81	176.65	176.68	176.42	176.38
18	176.77	176.70	176.65	176.50	176.66	176.88*	176.90	176.84	176.71	176.55	176.42	176.33
19	176.76	176.67	176.63	176.63	176.68	176.81	176.89	176.82	176.69	176.60	176.44	176.35
20	176.73	176.63	176.60	176.52	176.71	176.81	176.87	176.81	176.66	176.61	176.24	176.45
21	176.72	176.64	176.57	176.65	176.72	176.81	176.83	176.81	176.69	176.57	176.31	176.58
22	176.74	176.65	176.55	176.67	176.73	176.80	176.85	176.82	176.63	176.59	176.45	176.46
23	176.74	176.63	176.59	176.69	176.71	176.82*	176.88	176.83	176.66	176.51	176.46	176.40
24	176.73	176.65	176.59	176.53	176.71	176.85	176.91	176.82	176.69	176.65	176.42	176.48
25	176.72	176.64	176.58	176.59	176.75	176.78	176.88	176.81	176.70	176.67	176.49	176.47
26	176.73	176.64	176.57	176.63	176.78	176.81	176.80	176.82	176.73	176.53	176.64	176.43
27	176.71	176.64	176.55	176.62	176.76	176.84	176.84	176.81	176.67	176.50	176.38	176.41
28	176.71	176.64	176.56	176.62	176.76	176.87	176.84	176.85	176.55	176.53	176.45	176.43
29	176.68		176.55	176.60	176.79	176.88	176.84	176.85	176.67	176.56	176.50	176.42
30	176.68		176.55	176.65	176.69	176.84	176.89	176.85	176.64	176.59	176.48	176.42
31	176.70		176.57		176.75		176.89	176.85		176.55		176.47
MEAN	176.75	176.68	176.60	176.59	176.69	176.80	176.86	176.85	176.72	176.56	176.46	176.43
MAX.	176.87	176.75	176.70	176.77	176.83	176.92	176.95	176.97	176.89	176.82	176.70	176.67
	2400/05	1000/01	0500/18	1300/23	2200/29	2000/28	1700/24	1400/04	1100/01	2100/24	1400/26	1300/01
MIN.	176.59	176.60	176.49	176.15	176.51	176.64	176.75	176.75	176.40	176.20	176.08	176.22
	0300/04	1400/11	1700/22	1600/14	1800/06	1700/06	2000/26	1800/16	0400/28	2300/18	2300/20	0200/10

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.67

ANNUAL SUMMARY OF LEVELS, 1981

Station 6060: US Slip below locks, Sault St Marie, Michigan on St Marys River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	177.03	Jul	176.47	Dec
Daily mean elevation:	177.08	24 Jul	176.28	20 Nov
Instant/hourly elevation:	177.14	1200/19 Jul	176.15	2400/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
177.04	6 Jan
176.85	1 Feb
176.73	18 Mar
176.78	23 Apr
176.92	29 May
177.02	29 Jun
177.08	24 Jul
177.07	6 Aug
176.99	7 Sep
176.73	17 Oct
176.70	26 Nov
176.62	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.81	30 Jan
176.71	28 Feb
176.60	29 Mar
176.52	14 Apr
176.67	6 May
176.86	6 Jun
176.97	5 Jul
176.94	16 Aug
176.62	28 Sep
176.45	7 Oct
176.28	20 Nov
176.33	10 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
177.05							6	6					177.05	12
177.00	1					2	15	7					177.00	37
176.95	3					7	10	14	4				176.95	75
176.90	13				2	20		4	3				176.90	117
176.85	7				4	1			3				176.85	132
176.80	7	17			9				4				176.80	169
176.75		2		3	9				9				176.75	192
176.70		9	6	10	5				6	1			176.70	229
176.65			13	5	2					7	1		176.65	257
176.60			10	8					1	9		1	176.60	286
176.55			2	3						9	6	2	176.55	308
176.50				1						3	11	7	176.50	330
176.45										1	6	11	176.45	348
176.40										1	3	5	176.40	357
176.35											2	4	176.35	363
176.30												1	176.30	364
176.25											1		176.25	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 6060: US Slip below locks, Sault St Marie, Michigan on St Marys River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.94	176.85	176.73	176.63	176.69	176.91	176.97	177.06	176.99	176.69	176.55	176.60
2	176.94	176.81	176.71	176.64	176.75	176.91	176.99	177.06	176.95	176.46	176.52	176.52
3	176.91	176.84	176.73	176.63	176.81	176.91	177.00	177.05	176.96	176.63	176.54	176.54
4	176.82	176.82	176.72	176.68	176.79	176.91	176.99	177.07	176.95	176.67	176.56	176.46
5	177.00	176.84	176.70	176.59	176.74	176.92	176.97	177.05	176.94	176.62	176.52	176.47
6	177.04	176.84	176.69	176.62	176.67	176.86	176.99	177.07	176.96	176.54	176.37	176.59
7	176.94	176.84	176.69	176.65	176.74	176.92	176.99	177.06	176.99	176.45	176.57	176.53
8	176.99	176.83	176.70	176.60	176.80	176.93	177.00	177.03	176.87	176.58	176.51	176.38
9	176.98	176.83	176.70	176.63	176.78	176.91	176.98	177.06	176.90	176.59	176.49	176.36
10	176.95	176.82	176.69	176.73	176.74	176.91	177.04	177.03	176.85	176.59	176.60	176.33
11	176.94	176.78	176.68	176.68	176.73	176.92	177.05	177.00	176.87	176.60	176.46	176.42
12	176.94	176.81	176.71	176.69	176.78	176.93	177.05	177.02	176.82	176.63	176.52	176.46
13	176.94	176.83	176.65	176.71	176.77	176.93	177.02	177.02	176.85	176.66	176.53	176.48
14	176.93	176.82	176.66	176.52	176.81	176.92	177.03	177.01	176.78	176.66	176.57	176.51
15	176.93	176.83	176.67	176.74	176.80	176.95	177.05	177.00	176.77	176.59	176.56	176.43
16	176.90	176.83	176.65	176.76	176.82	176.98	177.05	176.94	176.77	176.61	176.52	176.43
17	176.91	176.83	176.68	176.75	176.78	176.97	177.06	176.95	176.74	176.73	176.46	176.43
18	176.92	176.83	176.73	176.60	176.77	177.02	177.07	176.97	176.80	176.61	176.45	176.38
19	176.91	176.80	176.70	176.72	176.80	176.95	177.07	176.97	176.79	176.63	176.49	176.39
20	176.88	176.75	176.68	176.61	176.83	176.95	177.05	176.96	176.75	176.66	176.28	176.49
21	176.86	176.74	176.63	176.74	176.83	176.95	177.01	176.96	176.78	176.61	176.36	176.62
22	176.88	176.73	176.60	176.77	176.84	176.95	177.02	176.97	176.73	176.63	176.51	176.50
23	176.88	176.71	176.66	176.78	176.82	176.96	177.05	176.97	176.75	176.55	176.50	176.45
24	176.86	176.72	176.65	176.63	176.83	176.99	177.08	176.97	176.78	176.69	176.45	176.52
25	176.85	176.71	176.64	176.67	176.87	176.92	177.05	176.95	176.79	176.70	176.52	176.52
26	176.86	176.71	176.64	176.72	176.92	176.95	176.98	176.96	176.82	176.56	176.70	176.48
27	176.84	176.71	176.61	176.71	176.90	176.97	177.02	176.95	176.75	176.52	176.44	176.46
28	176.84	176.71	176.61	176.71	176.90	177.00	177.03	176.98	176.62	176.57	176.50	176.47
29	176.81		176.60	176.70	176.92	177.02	177.01	176.99	176.76	176.59	176.56	176.47
30	176.81		176.63	176.74	176.84	176.98	177.06	176.99	176.73	176.63	176.52	176.46
31	176.82		176.65		176.88		177.06	176.99		176.58		176.51
MEAN	176.90	176.79	176.67	176.68	176.80	176.94	177.03	177.00	176.83	176.61	176.50	176.47
MAX.	177.07	176.87	176.78	176.86	177.02	177.08	177.14	177.14	177.07	176.87	176.79	176.71
	1600/06	0200/06	1000/05	1400/23	2200/29	1700/29	1200/19	1300/04	2200/07	2400/24	1200/26	1600/01
MIN.	176.70	176.67	176.51	176.27	176.61	176.78	176.89	176.89	176.46	176.30	176.15	176.27
	0300/04	2300/28	1800/22	1700/14	1800/01	1800/06	0600/01	1000/21	0500/28	2300/18	2400/20	0300/10

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.77

ANNUAL SUMMARY OF LEVELS, 1981

Station 6070: SW Pier above locks, Sault St Marie, Michigan on St Marys River

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	183.06	Jul	182.77	Feb
Daily mean elevation:	183.26	18 Oct	182.67	15 Feb
Instant/hourly elevation:	183.74	1400/18 Oct	182.26	0300/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.90	4 Jan
182.86	28 Feb
182.89	2 Mar
183.08	14 Apr
183.04	5 May
183.13	25 Jun
183.11	21 Jul
183.11	15 Aug
183.15	27 Sep
183.26	18 Oct
183.12	27 Nov
182.99	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.70	25 Jan
182.67	15 Feb
182.71	31 Mar
182.76	22 Apr
182.83	3 May
182.90	2 Jun
182.98	24 Jul
182.96	31 Aug
182.89	30 Sep
182.82	30 Oct
182.79	26 Nov
182.77	26 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
183.25										1			183.25	1
183.20													183.20	1
183.15													183.15	1
183.10						1	2	1	3	2	1		183.10	11
183.05				1		4	16	8	1	2	2		183.05	45
183.00					5	9	11	14	11	3	6		183.00	104
182.95				3	12	12	2	8	10	8	9	4	182.95	172
182.90				9	10	2			2	11	8	12	182.90	226
182.85	6	2	2	6	3	2			3	3	3	7	182.85	263
182.80	8	4	17	8	1					1		5	182.80	307
182.75	14	11	9	3							1	3	182.75	348
182.70	2	8	3										182.70	361
182.65	1	3											182.65	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 6070: SW Pier above locks, Sault St Marie, Michigan on St Marys River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	182.86	182.79	182.86	182.86	182.95	182.90	183.07	183.01	183.04	182.92	182.99	182.85
2	182.84	182.82	182.89	182.77	182.87	182.90	183.06	183.04	183.02	183.03	183.00	182.97
3	182.87	182.79	182.79	182.83	182.83	182.98	183.04	183.06	183.00	182.96	182.97	182.91
4	182.90	182.80	182.83	182.88	182.92	183.00	183.08	183.08	183.03	182.91	182.95	182.94
5	182.78	182.76	182.83	182.98	183.04	182.96	183.09	183.05	183.02	182.95	183.04	182.93
6	182.86	182.79	182.85	182.85	183.01	183.03	183.06	183.02	182.99	183.15	183.09	182.82
7	182.86	182.75	182.83	182.83	182.96	182.96	183.05	183.04	182.99	183.12	182.97	182.95
8	182.79	182.82	182.82	182.87	182.92	182.97	183.07	183.06	183.11	183.00	183.10	182.96
9	182.88	182.76	182.82	182.85	183.01	183.00	183.11	183.04	182.99	182.93	183.00	182.98
10	182.82	182.79	182.84	182.83	182.98	183.00	183.08	183.08	183.03	182.93	183.01	182.99
11	182.83	182.86	182.81	182.90	183.00	182.98	183.04	183.06	182.97	182.97	183.01	182.93
12	182.76	182.74	182.85	182.82	183.01	182.97	183.06	183.06	183.02	182.92	182.93	182.86
13	182.79	182.72	182.85	182.80	182.99	182.93	183.09	183.02	183.03	182.87	182.91	182.91
14	182.78	182.70	182.81	183.08	182.99	182.94	183.09	183.01	183.06	182.91	182.89	182.92
15	182.79	182.67	182.84	182.86	182.99	182.99	183.06	183.11	183.05	183.05	182.89	182.93
16	182.81	182.70	182.82	182.86	183.01	183.03	183.06	183.10	183.01	182.95	182.92	182.91
17	182.79	182.71	182.82	182.92	182.98	182.98	183.04	183.06	183.00	182.89	183.01	182.90
18	182.82	182.72	182.79	182.95	182.98	183.01	183.05	183.05	182.98	183.26	183.04	182.93
19	182.79	182.76	182.81	182.92	182.99	183.03	183.06	183.04	183.05	183.02	182.96	182.90
20	182.77	182.79	182.82	182.92	182.94	183.02	183.08	183.02	183.03	183.07	182.99	182.83
21	182.78	182.75	182.80	182.81	182.93	183.04	183.11	183.00	182.98	183.00	182.98	182.83
22	182.83	182.72	182.79	182.76	182.92	183.08	183.05	182.99	182.97	182.99	182.96	182.86
23	182.80	182.78	182.80	182.85	182.89	183.05	183.02	183.03	182.93	183.10	182.92	182.89
24	182.75	182.83	182.79	183.00	182.91	183.02	182.98	183.01	182.92	182.94	182.91	182.95
25	182.70	182.83	182.75	182.96	182.94	183.13	183.05	183.00	182.90	182.99	182.86	182.90
26	182.83	182.80	182.76	182.91	182.97	183.08	183.09	182.99	182.89	182.94	182.79	182.77
27	182.80	182.74	182.78	182.92	182.96	183.01	183.06	183.01	183.15	183.00	183.12	182.79
28	182.79	182.86	182.72	182.92	182.93	183.00	183.05	182.97	183.11	182.96	183.05	182.94
29	182.82		182.80	182.95	182.90	183.08	183.04	182.97	182.97	182.88	182.95	182.86
30	182.79		182.83	182.95	183.00	183.10	183.01	183.00	182.89	182.82	182.91	182.85
31	182.72		182.71		182.93		182.99	182.96		182.93		182.80
MEAN	182.81	182.77	182.81	182.89	182.96	183.01	183.06	183.03	183.00	182.98	182.97	182.90
MAX.	183.09	183.00	182.99	183.44	183.64	183.64	183.24	183.24	183.61	183.74	183.42	183.11
	2000/01	2000/01	2100/01	1300/14	0400/19	0400/20	0900/02	0900/04	2100/27	1400/18	1300/08	2300/24
MIN.	182.57	182.53	182.41	182.26	182.50	182.48	182.82	182.82	182.68	182.57	182.62	182.53
	0900/25	0300/15	2300/31	0300/01	2300/29	1600/14	1600/23	1600/31	0100/24	0400/01	1100/26	0500/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 182.93

ANNUAL SUMMARY OF LEVELS, 1981
Station 7023: Ludington, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.67	Aug	176.42	Dec
Daily mean elevation:	176.78	1 Oct	176.31	24 Dec
Instant/hourly elevation:	176.95	1000/1 Oct	176.26	1400/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.52	1 Jan
176.50	28 Feb
176.48	30 Mar
176.65	23 Apr
176.64	17 May
176.69	28 Jun
176.70	2 Jul
176.72	29 Aug
176.70	1 Sep
176.78	1 Oct
176.56	20 Nov
176.56	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.38	31 Jan
176.38	12 Feb
176.38	17 Mar
176.41	2 Apr
176.55	6 May
176.60	9 Jun
176.60	27 Jul
176.61	23 Aug
176.45	28 Sep
176.48	7 Oct
176.38	28 Nov
176.31	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.75										1			176.75	1
176.70								5					176.70	6
176.65						16	18	14	6				176.65	60
176.60				1	12	11	12	12	16	6			176.60	130
176.55				10	18	3	1		7	19	2	1	176.55	191
176.50	1			9	1					3	8	2	176.50	215
176.45	3	4	5	7						2	16	6	176.45	258
176.40	21	13	21	3					1		3	11	176.40	331
176.35	6	11	5								1	7	176.35	361
176.30												4	176.30	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7023: Ludington, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.52	176.48	176.42	176.52	176.59	176.63	176.70	176.64	176.70	176.78	176.55	176.56
2	176.43	176.39	176.40	176.41	176.56	176.64	176.70	176.64	176.64	176.62	176.54	176.52
3	176.45	176.38	176.40	176.47	176.60	176.64	176.69	176.65	176.66	176.56	176.55	176.48
4	176.42	176.38	176.45	176.50	176.61	176.60	176.69	176.66	176.65	176.59	176.53	176.51
5	176.40	176.39	176.46	176.43	176.56	176.62	176.68	176.66	176.65	176.60	176.56	176.47
6	176.43	176.40	176.44	176.42	176.55	176.60	176.67	176.67	176.64	176.60	176.47	176.49
7	176.38	176.44	176.42	176.48	176.56	176.61	176.67	176.71	176.65	176.48	176.48	176.49
8	176.42	176.42	176.44	176.51	176.59	176.66	176.67	176.71	176.63	176.56	176.50	176.43
9	176.42	176.38	176.45	176.49	176.59	176.60	176.65	176.66	176.61	176.60	176.48	176.42
10	176.39	176.43	176.45	176.49	176.60	176.65	176.63	176.68	176.63	176.61	176.49	176.40
11	176.43	176.42	176.42	176.54	176.63	176.61	176.65	176.67	176.68	176.59	176.45	176.41
12	176.44	176.38	176.44	176.57	176.58	176.64	176.68	176.66	176.67	176.58	176.52	176.46
13	176.45	176.44	176.41	176.56	176.60	176.66	176.68	176.70	176.65	176.60	176.48	176.41
14	176.46	176.41	176.40	176.51	176.61	176.69	176.64	176.72	176.66	176.60	176.50	176.45
15	176.48	176.41	176.40	176.49	176.62	176.67	176.66	176.67	176.64	176.58	176.52	176.42
16	176.49	176.40	176.42	176.51	176.58	176.67	176.65	176.67	176.65	176.56	176.51	176.40
17	176.44	176.42	176.38	176.54	176.64	176.64	176.65	176.66	176.65	176.60	176.49	176.43
18	176.42	176.42	176.42	176.49	176.60	176.68	176.68	176.63	176.61	176.64	176.42	176.43
19	176.42	176.43	176.42	176.55	176.60	176.65	176.69	176.65	176.58	176.49	176.47	176.42
20	176.45	176.40	176.41	176.56	176.59	176.67	176.68	176.64	176.58	176.56	176.56	176.38
21	176.45	176.40	176.42	176.52	176.59	176.69	176.67	176.63	176.60	176.56	176.48	176.38
22	176.41	176.44	176.44	176.60	176.59	176.67	176.66	176.64	176.62	176.61	176.47	176.39
23	176.41	176.49	176.45	176.65	176.62	176.66	176.65	176.61	176.60	176.55	176.47	176.41
24	176.43	176.46	176.43	176.57	176.62	176.69	176.67	176.63	176.56	176.54	176.48	176.31
25	176.45	176.39	176.42	176.52	176.62	176.66	176.63	176.65	176.62	176.56	176.46	176.32
26	176.45	176.43	176.48	176.56	176.62	176.63	176.65	176.65	176.68	176.57	176.54	176.38
27	176.39	176.44	176.44	176.60	176.63	176.66	176.60	176.68	176.59	176.58	176.50	176.47
28	176.45	176.50	176.43	176.58	176.61	176.69	176.66	176.72	176.45	176.55	176.38	176.35
29	176.42		176.47	176.59	176.62	176.68	176.62	176.72	176.57	176.60	176.44	176.35
30	176.40		176.48	176.57	176.60	176.67	176.61	176.69	176.62	176.62	176.47	176.38
31	176.38		176.46		176.58		176.64	176.69		176.61		176.43
MEAN	176.43	176.42	176.43	176.53	176.60	176.65	176.66	176.67	176.62	176.59	176.49	176.42
MAX.	176.58	176.61	176.56	176.74	176.70	176.81	176.79	176.79	176.80	176.95	176.65	176.68
	1200/01	0900/28	1900/31	0700/23	0700/25	2300/24	1900/12	2400/28	1300/26	1000/01	1700/26	1700/01
MIN.	176.31	176.32	176.29	176.32	176.48	176.53	176.55	176.57	176.40	176.44	176.33	176.26
	0400/10	0800/12	0400/17	2100/08	2200/05	1400/09	1200/27	1800/23	1000/28	0800/19	0600/28	1400/24

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.54

ANNUAL SUMMARY OF LEVELS, 1981
Station 7031: Holland, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.64	Aug	Monthly mean elevation:	176.38	Feb
Daily mean elevation:	176.75	1 Oct	Daily mean elevation:	176.26	24 Dec
Instant/hourly elevation:	176.84	1900/1 Oct	Instant/hourly elevation:	176.16	0200/21 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.50	16 Jan
176.49	11 Feb
176.46	5 Mar
176.62	23 Apr
176.68	11 May
176.67	30 Jun
176.68	28 Jul
176.70	8 Aug
176.68	1 Sep
176.75	1 Oct
176.60	20 Nov
176.49	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.33	31 Jan
176.30	5 Feb
176.35	14 Mar
176.36	2 Apr
176.53	3 May
176.56	9 Jun
176.59	30 Jul
176.59	23 Aug
176.43	28 Sep
176.46	24 Oct
176.35	28 Nov
176.26	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.70										1			176.70	1
176.65					1	2	10	12	5				176.65	31
176.60				1	3	17	20	17	13	2			176.60	104
176.55				3	20	11	1	2	9	11	1		176.55	162
176.50				9	7				2	14	5		176.50	199
176.45	4	1	2	6						3	12	4	176.45	231
176.40	13	7	12	6					1		7	10	176.40	287
176.35	13	10	16	5							4	8	176.35	343
176.30	1	9	1								1	6	176.30	361
176.25		1										3	176.25	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7031: Holland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.50	176.40	176.38	176.44	176.58	176.59	176.68	176.60	176.68	176.75	176.52	176.48
2	176.42	176.42	176.39	176.36	176.53	176.61	176.68	176.61	176.65	176.61	176.51	176.49
3	176.48	176.37	176.37	176.40	176.53	176.60	176.67	176.63	176.65	176.53	176.51	176.44
4	176.44	176.40	176.46	176.44	176.56	176.57	176.66	176.63	176.66	176.56	176.50	176.49
5	176.37*	176.30	176.46	176.39	176.58	176.57	176.66	176.63	176.66	176.58	176.53	176.43
6	176.48*	176.37	176.43	176.37	176.56	176.56	176.64	176.64	176.64	176.60	176.46	176.40
7	176.41	176.35	176.41	176.39	176.54	176.58	176.62	176.68	176.63	176.48	176.43	176.46
8	176.39	176.39	176.41	176.49	176.56	176.60	176.61	176.70	176.63	176.54	176.49	176.43
9	176.44	176.33	176.41	176.43	176.59	176.56	176.63	176.64	176.59	176.59	176.45	176.45
10	176.40	176.45	176.42	176.43	176.65	176.59	176.61	176.67	176.64	176.60	176.42	176.42
11	176.45	176.49	176.40	176.51	176.68	176.57	176.62	176.65	176.67	176.56	176.46	176.40
12	176.41	176.35*	176.39	176.54	176.58	176.61	176.65	176.62	176.64	176.57	176.46	176.41
13	176.45	176.34*	176.40	176.53	176.57	176.63	176.66	176.66	176.61	176.56	176.44	176.39
14	176.42	176.35	176.35	176.52	176.57	176.63	176.64	176.66	176.65	176.54	176.47	176.39
15	176.44	176.31	176.39	176.44	176.57	176.62	176.64	176.68	176.61	176.56	176.47	176.40
16	176.50	176.33	176.40	176.44	176.57	176.62	176.63	176.68	176.65	176.52	176.47	176.39
17	176.41	176.33	176.40	176.48	176.63	176.60	176.61	176.64	176.67	176.52	176.46	176.44
18	176.40	176.34	176.41	176.48	176.59	176.63	176.64	176.62	176.58	176.65	176.40	176.45
19	176.38	176.39	176.43	176.50	176.57	176.63	176.65	176.63	176.58	176.46	176.49	176.42
20	176.42	176.41	176.38	176.55	176.54	176.65	176.66	176.63	176.60	176.53	176.60	176.31
21	176.39	176.36	176.39	176.50	176.54	176.66	176.67	176.62	176.59	176.56	176.48	176.27
22	176.37	176.41	176.42	176.56	176.54	176.63	176.65	176.62	176.62	176.55	176.45	176.36
23	176.37	176.45	176.40	176.62	176.57	176.61	176.64	176.59	176.56	176.54	176.45	176.34
24	176.38	176.41	176.41	176.56	176.59	176.64	176.64	176.62	176.55	176.46	176.45	176.26
25	176.38	176.37	176.39	176.48	176.57	176.63	176.62	176.64	176.58	176.51	176.39	176.30
26	176.40	176.39	176.43	176.53	176.58	176.61	176.67	176.64	176.60	176.54	176.51	176.35
27	176.38	176.39	176.42	176.53	176.61	176.62	176.62	176.66	176.56	176.53	176.48	176.42
28	176.41	176.45	176.37*	176.58	176.58	176.61	176.68	176.69	176.43	176.51	176.35	176.33
29	176.42		176.37	176.54	176.57	176.62	176.61	176.69	176.54	176.54	176.40	176.32
30	176.36		176.42	176.53	176.59	176.67	176.59	176.66	176.61	176.55	176.40	176.31
31	176.33		176.40		176.55		176.61	176.66		176.56		176.36
MEAN	176.41	176.38	176.40	176.49	176.58	176.61	176.64	176.64	176.61	176.55	176.46	176.39
MAX.	176.56	176.65	176.56	176.69	176.73	176.70	176.73	176.75	176.73	176.84	176.66	176.56
	1000/16	0100/11	2300/15	2200/28	0200/11	1400/30	0800/26	0500/08	1900/01	1900/01	2400/26	0500/02
MIN.	176.29	176.26	176.30	176.32	176.47	176.52	176.56	176.56	176.37	176.41	176.32	176.16
	2300/31	1900/05	0300/15	1800/02	2000/02	1700/09	0900/30	1800/23	0900/28	2100/19	0700/28	0200/21

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.51

ANNUAL SUMMARY OF LEVELS, 1981

Station 7044: Calumet Harbor, Illinois on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	176.68	Jul	176.37	Feb
Daily mean elevation:	176.90	10 May	176.18	21 Dec
Instant/hourly elevation:	177.05	2300/1 Oct	175.96	0100/21 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.57	3 Jan
176.53	10 Feb
176.54	5 Mar
176.68	20 Apr
176.90	10 May
176.73	30 Jun
176.78	28 Jul
176.77	16 Aug
176.84	17 Sep
176.76	1 Oct
176.75	20 Nov
176.55	8 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.28	5 Jan
176.21	5 Feb
176.36	14 Mar
176.35	4 Apr
176.52	3 May
176.56	9 Jun
176.62	8 Jul
176.60	14 Aug
176.48	27 Sep
176.44	24 Oct
176.37	28 Nov
176.18	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.85					1								176.85	1
176.80					1				1				176.80	3
176.75							3	1	2	1			176.75	10
176.70					1	1	4	4	8	1	1		176.70	30
176.65				1	4	8	17	11	5	1	1		176.65	78
176.60				1	10	9	7	13	5	6			176.60	129
176.55	2			12	12	12		2	7	14	2		176.55	192
176.50	2	1	3	2	2					3	9	5	176.50	219
176.45	8	2	8	4					2	3	12	2	176.45	260
176.40	7	7	14	4						2	3	10	176.40	307
176.35	9	4	6	5							2	4	176.35	337
176.30	2	9		1								4	176.30	353
176.25	1	4										3	176.25	361
176.20		1										1	176.20	363
176.15												2	176.15	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7044: Calumet Harbor, Illinois on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.53	176.35	176.39	176.39	176.64	176.63	176.76	176.63	176.68	176.76	176.56	176.43
2	176.47	176.39	176.45	176.36	176.57	176.64	176.74	176.64	176.72	176.73	176.57	176.44
3	176.57	176.34	176.39	176.37	176.52	176.60	176.70	176.64	176.74	176.59	176.55	176.45
4	176.49	176.40	176.50	176.35	176.54	176.60	176.70	176.64	176.75	176.57	176.55	176.53
5	176.28	176.21	176.54	176.40	176.68	176.59	176.70	176.65	176.77	176.60	176.54	176.46
6	176.40	176.34	176.49	176.41	176.71	176.57	176.68	176.66	176.73	176.63	176.55	176.32
7	176.47	176.27	176.51	176.38	176.60	176.60	176.66	176.68	176.69	176.60	176.47	176.45
8	176.41	176.35	176.47	176.45	176.59	176.60	176.62	176.73	176.71	176.60*	176.52	176.55
9	176.43	176.32	176.43	176.47	176.63	176.56	176.66	176.65	176.60	176.64	176.53	176.54
10	176.44	176.53	176.44	176.45	176.90	176.58	176.65	176.67	176.60	176.64	176.40	176.51
11	176.52	176.50	176.44	176.50	176.82	176.57	176.66	176.64	176.64	176.64	176.50	176.45
12	176.38	176.27	176.38	176.60	176.60	176.62	176.64	176.60	176.65	176.63	176.50	176.43
13	176.47	176.31	176.45	176.57	176.59	176.66	176.67	176.64	176.63	176.60	176.46	176.40
14	176.46	176.34	176.36	176.56	176.67	176.62	176.69	176.60	176.72	176.52	176.49	176.42
15	176.47	176.30	176.43	176.48	176.63	176.59	176.68	176.70	176.68	176.57	176.49	176.43
16	176.56	176.31	176.47	176.44	176.62	176.62	176.66	176.77	176.77	176.55	176.49	176.41
17	176.38	176.29	176.50	176.48	176.70	176.61	176.64	176.72	176.84	176.50	176.51	176.53
18	176.39	176.33	176.48	176.52	176.69	176.60	176.64	176.70	176.67	176.54	176.48	176.50
19	176.38	176.40	176.51	176.56	176.65	176.64	176.67	176.72	176.61	176.44	176.67	176.44
20	176.47	176.45	176.44	176.68	176.59	176.67	176.68	176.72	176.65	176.49	176.75	176.24
21	176.41	176.40	176.46	176.57	176.56	176.70	176.78	176.69	176.73	176.67	176.52	176.18
22	176.38	176.45	176.48	176.60	176.57	176.65	176.72	176.67	176.74	176.60	176.45	176.37
23	176.37	176.44	176.44	176.58	176.60	176.67	176.67	176.61	176.60	176.56	176.49	176.31
24	176.41	176.42	176.45	176.61	176.61	176.67	176.67	176.65	176.59	176.44	176.54	176.19
25	176.39	176.43	176.43	176.53	176.56	176.66	176.68	176.65	176.60	176.50	176.44	176.28
26	176.34	176.47	176.44	176.57	176.60	176.67	176.75	176.64	176.59	176.61	176.49	176.36
27	176.38	176.42	176.45	176.56	176.65	176.68	176.73	176.67	176.48	176.58	176.49	176.40
28	176.43	176.44	176.38	176.59	176.62	176.58	176.78	176.70	176.50	176.58	176.37	176.34
29	176.50		176.37	176.58	176.59	176.61	176.68	176.68	176.56	176.59	176.42	176.30
30	176.41		176.41	176.59	176.63	176.73	176.63	176.65	176.66	176.58	176.47	176.28
31	176.33		176.42		176.62		176.63	176.66		176.59		176.31
MEAN	176.43	176.37	176.45	176.51	176.63	176.63	176.68	176.67	176.66	176.59	176.51	176.40
MAX.	176.72	176.79	176.81	176.93	176.99	176.86	176.88	176.84	176.95	177.05	176.96	176.73
	2300/06	2300/10	2000/15	0500/14	2300/10	0100/22	0900/28	1100/16	1100/17	2300/01	0300/20	2200/07
MIN.	176.14	176.10	176.21	176.12	176.44	176.43	176.44	176.48	176.28	176.21	176.25	175.96
	2200/05	1800/05	1500/29	0900/04	0400/03	1300/09	2000/12	2400/03	0600/27	2000/19	1100/10	0100/21

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.54

ANNUAL SUMMARY OF LEVELS, 1981
Station 7057: Milwaukee, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.68	Jul	176.40	Dec
Daily mean elevation:	176.77	17 Sep	176.23	24 Dec
Instant/hourly elevation:	176.84	1600/1 Oct	176.18	2200/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.49	16 Jan
176.51	22 Feb
176.49	4 Mar
176.63	23 Apr
176.76	10 May
176.68	30 Jun
176.74	28 Jul
176.72	28 Aug
176.77	17 Sep
176.72	1 Oct
176.62	20 Nov
176.53	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.36	5 Jan
176.31	5 Feb
176.37	14 Mar
176.40	5 Apr
176.56	2 May
176.55	6 Jun
176.63	10 Jul
176.62	12 Aug
176.46	28 Sep
176.46	19 Oct
176.36	28 Nov
176.23	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.75					1				1				176.75	2
176.70							4	4	5	1			176.70	16
176.65					2	7	21	18	11				176.65	75
176.60				4	12	18	6	9	10	10	1		176.60	145
176.55				8	16	4			1	12	2		176.55	188
176.50		1		5		1				6	10	1	176.50	212
176.45	6	4	6	6					2	2	13	5	176.45	256
176.40	14	8	22	5							3	14	176.40	322
176.35	11	8	3	2							1	3	176.35	350
176.30		7										5	176.30	362
176.25												2	176.25	364
176.20												1	176.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7057: Milwaukee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.49	176.41	176.39	176.44	176.62	176.63	176.71	176.64	176.70	176.72	176.55	176.53
2	176.43	176.37	176.41	176.40	176.56	176.64	176.72	176.63	176.70	176.65	176.54	176.45
3	176.47	176.33	176.40	176.46	176.58	176.62	176.70	176.64	176.71	176.58	176.56	176.46
4	176.43	176.37	176.49	176.43	176.60	176.59	176.69	176.66	176.71	176.61	176.55	176.49
5	176.36	176.31	176.48	176.40	176.60	176.59	176.68	176.65	176.73	176.62	176.55	176.44
6	176.41	176.35	176.46	176.41	176.60	176.55	176.67	176.67	176.71	176.57	176.48	176.44
7	176.40	176.34	176.44	176.45	176.57	176.60	176.66	176.69	176.69	176.52	176.48	176.46
8	176.40	176.35	176.45	176.50	176.59	176.62	176.65	176.71	176.67	176.58	176.52	176.46
9	176.41	176.35	176.44	176.45	176.64	176.58	176.64	176.65	176.62	176.64	176.49	176.45
10	176.40	176.49	176.44	176.49	176.76	176.61	176.63	176.67	176.64	176.64	176.44	176.43
11	176.44	176.43	176.42	176.53	176.70	176.61	176.66	176.65	176.67	176.61	176.49	176.43
12	176.42	176.34	176.41	176.58	176.59	176.63	176.67	176.62	176.64	176.63	176.50	176.45
13	176.48	176.39	176.42	176.57	176.60	176.67	176.65	176.66	176.63	176.62	176.47	176.42
14	176.46	176.39	176.37	176.53	176.61	176.67	176.66	176.66	176.67	176.59	176.51	176.41
15	176.45	176.36	176.42	176.48	176.61	176.63	176.68	176.66	176.67	176.57	176.51	176.40
16	176.49	176.36	176.44	176.49	176.60	176.63	176.66	176.72	176.73	176.55	176.51	176.39
17	176.39	176.36	176.45	176.52	176.66	176.61	176.65	176.70	176.77	176.58	176.48	176.46
18	176.41	176.38	176.45	176.50	176.64	176.63	176.68	176.69	176.66	176.54	176.46	176.44
19	176.41	176.41	176.45	176.55	176.61	176.62	176.69	176.70	176.63	176.46	176.60	176.41
20	176.46	176.42	176.42	176.61	176.59	176.67	176.67	176.69	176.64	176.53	176.62	176.32
21	176.41	176.41	176.44	176.56	176.58	176.65	176.71	176.67	176.69	176.60	176.49	176.30
22	176.38	176.51	176.46	176.61	176.60	176.64	176.70	176.67	176.68	176.57	176.46	176.38
23	176.40	176.48	176.44	176.63	176.62	176.64	176.70	176.63	176.63	176.52	176.52	176.32
24	176.42	176.42	176.43	176.58	176.63	176.68	176.70	176.65	176.61	176.49	176.50	176.23
25	176.43	176.41	176.44	176.52	176.60	176.64	176.68	176.67	176.64	176.53	176.47	176.30
26	176.38	176.46	176.46	176.57	176.60	176.63	176.70	176.67	176.64	176.58	176.54	176.41
27	176.38	176.48	176.45	176.58	176.63	176.67	176.69	176.69	176.49	176.56	176.44	176.41
28	176.42	176.45	176.42	176.62	176.61	176.66	176.74	176.72	176.46	176.56	176.36	176.32
29	176.44		176.44	176.57	176.61	176.64	176.66	176.71	176.59	176.61	176.42	176.32
30	176.40		176.45	176.58	176.61	176.68	176.64	176.69	176.69	176.61	176.49	176.35
31	176.39		176.46		176.60		176.66	176.70		176.60		176.41
MEAN	176.42	176.40	176.44	176.52	176.61	176.63	176.68	176.67	176.66	176.58	176.50	176.40
MAX.	176.55	176.65	176.66	176.83	176.83	176.79	176.81	176.80	176.83	176.84	176.74	176.60
	0900/16	1600/22	1700/29	1100/28	2100/10	0300/22	0600/28	1400/16	1500/17	1600/01	2200/19	0100/01
MIN.	176.30	176.25	176.32	176.30	176.49	176.50	176.55	176.56	176.38	176.37	176.30	176.18
	2300/21	1800/05	2400/14	1000/09	1600/02	2100/08	0600/13	2100/03	0600/28	2100/19	0800/28	2200/24

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.54

ANNUAL SUMMARY OF LEVELS, 1981
Station 7068: Kewaunee, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.65	Aug	176.38	Feb
Daily mean elevation:	176.73	28 Aug	176.24	24 Dec
Instant/hourly elevation:	176.82	0600/30 Sep	176.20	0100/25 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.44	25 Jan
176.47	22 Feb
176.45	31 Mar
176.64	23 Apr
176.61	23 May
176.68	28 Jun
176.69	3 Jul
176.73	28 Aug
176.68	17 Sep
176.68	1 Oct
176.53	3 Nov
176.54	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.35	22 Jan
176.33	9 Feb
176.36	15 Mar
176.38	5 Apr
176.54	7 May
176.57	6 Jun
176.60	30 Jul
176.60	23 Aug
176.42	28 Sep
176.48	7 Oct
176.34	28 Nov
176.24	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.70								2					176.70	2
176.65						4	15	11	5	1			176.65	38
176.60				1	2	14	15	16	12	2			176.60	100
176.55				3	23	11	1	2	7	14			176.55	161
176.50				9	5					10	6	1	176.50	192
176.45		2		11					1	4	15	2	176.45	227
176.40	9	4	18	5					1		8	7	176.40	279
176.35	12	14	13	1								14	176.35	333
176.30	2	8									1	5	176.30	349
176.25												1	176.25	350
176.20												1	176.20	351

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7068: Kewaunee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	176.38	176.38	176.45	176.56	/	176.67	176.60	176.68	176.68	176.50	176.54
2	/	176.33	176.37	176.41	176.55	176.60*	176.68	176.62	176.64	176.60	176.52	176.45
3	/	176.33	176.40	176.48	176.59	176.60	176.69	176.62	176.66*	176.56	176.53	176.44
4	/	176.34	176.43	176.47	176.59	176.57	176.67	176.63	/	176.59	176.51	176.46
5	/	176.34	176.44	176.38	176.54	176.60	176.66	176.61	/	176.56	176.52	176.43
6	/	176.34	176.42	176.42	176.54	176.57	176.65	176.67	/	176.55	176.44	176.47
7	/	176.38	176.40	176.45	176.54	176.59	176.65	176.67	/	176.48	176.47	176.43
8	/	176.34	176.43	176.46	176.57	176.61	176.64	176.68	176.60*	176.55	176.48	176.39
9	176.35*	176.33	176.42	176.45	176.56	176.58	176.61	176.67	176.63	176.60	176.46	176.40
10	176.36	176.39	176.42	176.48	176.56	176.60	176.61	176.66	176.61	176.60	176.45	176.38
11	176.38	176.39	176.41	176.47	176.60	176.59	176.64	176.64	176.65	176.57	176.43	176.40
12	176.41	176.35	176.41	176.53	176.55	176.60	176.66	176.62	176.61	176.60	176.49	176.43
13	176.44	176.39	176.38	176.53	176.56	176.65	176.65	176.64	176.61	176.60	176.46	176.38
14	176.43	176.38	176.39	176.48	176.57	176.65	176.63	176.66	176.61	176.60	176.49	176.39
15	176.43	176.38	176.36	176.47	176.59	176.61	176.67	176.63	176.61	176.54	176.50	176.38
16	176.43	176.37	176.42	176.47	176.57	176.61	176.65	176.67	176.66	176.54	176.49	176.37
17	176.41	176.38*	176.38	176.50	176.61	176.63	176.63	176.67	176.68	176.61	176.45	176.39
18	176.38	176.39	176.40	176.47	176.59	176.63	176.66	176.63	176.63	176.54	176.42	176.38
19	176.39	176.38	176.39	176.51	176.57	176.60	176.65	176.65	176.57	176.49	176.47	176.38
20	176.42	176.38	176.39	176.52	176.57	176.66	176.66	176.65	176.60	176.53	176.52	176.36
21	176.41	176.38	176.40	176.54	176.57	176.63	176.67	176.64	176.62	176.56	176.46	176.31
22	176.35	176.47	176.43	176.59	176.57	176.63	176.68	176.65	176.63	176.57	176.43	176.35
23	176.38	176.45	176.41	176.64	176.61	176.64	176.67	176.60	176.60	176.49	176.46	176.34
24	176.40	176.41	176.40	176.54	176.60	176.67	176.66	176.62	176.58	176.51	176.47	176.24
25	176.44	176.37	176.41	176.50	176.60	176.62	176.64	176.65	176.62	176.49	176.47	176.28
26	176.38	176.41	176.45	176.54	176.58	176.62	176.66	176.64	176.60	176.55	176.51	176.42
27	176.36	176.46	176.42	176.56	176.59	176.66	176.63	176.67	176.47	176.52	176.43	176.42
28	176.39	176.45	176.42	176.56	176.57	176.68	176.68	176.73	176.42	176.53	176.34	176.31
29	176.38		176.42	176.53	176.60	176.64	176.63	176.72	176.56	176.60	176.42	176.31
30	176.38		176.44	176.53	176.56	176.63	176.60	176.67	176.67	176.61	176.47	176.36
31	176.39		176.45		/		176.61	176.68		176.57		176.40
MEAN	176.40	176.38	176.41	176.50	176.57	176.62	176.65	176.65	176.61	176.56	176.47	176.39
MAX.	176.53	176.67	176.64	176.71	176.69	176.79	176.80	176.79	176.82	176.79	176.63	176.64
	0700/21	1400/22	2400/31	2400/22	1700/24	1800/27	2100/28	1000/29	0600/30	0200/01	0100/27	1400/01
MIN.	176.27	176.25	176.29	176.25	176.47	176.47	176.52	176.51	176.33	176.34	176.30	176.20
	1100/23	0800/09	2000/15	1400/08	2100/09	2000/09	0700/28	2400/03	0500/28	2100/05	1200/28	0100/25

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.52

ANNUAL SUMMARY OF LEVELS, 1981

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.65	Aug	176.38	Dec
Daily mean elevation:	176.72	1 Oct	176.22	24 Dec
Instant/hourly elevation:	176.81	0400/1 Oct	176.17	0900/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.46	1 Jan
176.45	27 Feb
176.45	26 Mar
176.64	23 Apr
176.60	29 May
176.66	24 Jun
176.69	2 Jul
176.71	29 Aug
176.67	30 Sep
176.72	1 Oct
176.54	26 Nov
176.52	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.34	7 Jan
176.32	4 Feb
176.35	17 Mar
176.38	5 Apr
176.52	7 May
176.56	9 Jun
176.60	30 Jul
176.60	23 Aug
176.42	28 Sep
176.46	7 Oct
176.34	28 Nov
176.22	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.70								2		1			176.70	3
176.65						1	8	10	5				176.65	27
176.60				1		14	22	17	11				176.60	92
176.55				1	21	15	1	2	11	14			176.55	157
176.50				10	10				1	11	4	1	176.50	194
176.45	1			9						5	10	1	176.45	220
176.40	7	5	14	6					2		15	7	176.40	276
176.35	20	14	14	3								13	176.35	340
176.30	3	9	3								1	5	176.30	361
176.25												3	176.25	364
176.20												1	176.20	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.46	176.39	176.38	176.46	176.56	176.59	176.66	176.60	176.66	176.72	176.50	176.52
2	176.38	176.32	176.35	176.39	176.52	176.60	176.69	176.61	176.63	176.60	176.50	176.45
3	176.38	176.32	176.39	176.44	176.57	176.60	176.68	176.62	176.65	176.55	176.53	176.44
4	176.37	176.32	176.42	176.48	176.59	176.57	176.67	176.62	176.63	176.59	176.50	176.46
5	176.38	176.34	176.43	176.38	176.53	176.60	176.65	176.61	176.67	176.57	176.52	176.42
6	176.36	176.33	176.40	176.40	176.53	176.56	176.65	176.65	176.66	176.52	176.42	176.45
7	176.34	176.38	176.39	176.44	176.52	176.58	176.64	176.68	176.65	176.46	176.46	176.41
8	176.38	176.34	176.42	176.45	176.55	176.60	176.64	176.69	176.60	176.55	176.46	176.39
9	176.36	176.33	176.42	176.45	176.54	176.56	176.61	176.66	176.62	176.59	176.45	176.39
10	176.35	176.36	176.41	176.46	176.55	176.59	176.62	176.66	176.60	176.59	176.42	176.38
11	176.38	176.37	176.40	176.44	176.59	176.57	176.63	176.64	176.64	176.56	176.43	176.39
12	176.40	176.35	176.41	176.53	176.55	176.58	176.63	176.62	176.60	176.58	176.47	176.42
13	176.42	176.39	176.36	176.53	176.56	176.62	176.62	176.64	176.60	176.59	176.45	176.37
14	176.42	176.38	176.38	176.49	176.56	176.63	176.63	176.66	176.61	176.57	176.48	176.38
15	176.44	176.40	176.35	176.45	176.58	176.62	176.67	176.64	176.60	176.54	176.49	176.38
16	176.42	176.38	176.40	176.46	176.56	176.60	176.64	176.67	176.64	176.52	176.49	176.37
17	176.40	176.38	176.35	176.49	176.59	176.60	176.64	176.66	176.67	176.58	176.45	176.39
18	176.38	176.39	176.38	176.46	176.57	176.62	176.64	176.63	176.61	176.52	176.41	176.37
19	176.39	176.39	176.38	176.49	176.55	176.60	176.65	176.63	176.56	176.47	176.45	176.37
20	176.42	176.37	176.38	176.52	176.56	176.63	176.65	176.63	176.58	176.51	176.51	176.35
21	176.41	176.37	176.39	176.52	176.56	176.64	176.65	176.63	176.59	176.55	176.45	176.29
22	176.36	176.44	176.42	176.56	176.57	176.62	176.66	176.64	176.62	176.56	176.42	176.34
23	176.39	176.45	176.41	176.64	176.59	176.62	176.66	176.60	176.59	176.49	176.45	176.32
24	176.40	176.40	176.40	176.54	176.60	176.66	176.64	176.62	176.57	176.47	176.46	176.22
25	176.45	176.35	176.41	176.49	176.58	176.61	176.65	176.63	176.61	176.48	176.45	176.27
26	176.38	176.41	176.45	176.51	176.56	176.61	176.64	176.64	176.60	176.51	176.54	176.40
27	176.35	176.45	176.41	176.52	176.58	176.64	176.63	176.67	176.45	176.52	176.44	176.42
28	176.39	176.44	176.42	176.55	176.57	176.63	176.66	176.71	176.42	176.53	176.34	176.30
29	176.38		176.39	176.55	176.60	176.62	176.62	176.71	176.54	176.57	176.41	176.32
30	176.36		176.44	176.54	176.56	176.61	176.60	176.67	176.67	176.60	176.42	176.34
31	176.38		176.43		176.55		176.61	176.67		176.59		176.39
MEAN	176.39	176.38	176.40	176.49	176.56	176.61	176.64	176.65	176.60	176.55	176.46	176.38
MAX.	176.55	176.55	176.53	176.70	176.65	176.76	176.71	176.76	176.76	176.81	176.64	176.59
	0300/01	2200/22	1900/31	1000/23	1500/09	1400/15	0800/03	0800/29	2100/30	0400/01	1800/26	1400/01
MIN.	176.28	176.27	176.26	176.31	176.46	176.46	176.53	176.55	176.35	176.38	176.30	176.17
	2400/06	0100/03	0700/17	1000/08	1700/09	0300/09	0100/30	2200/03	0400/28	2400/24	1300/28	0900/24

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.51

ANNUAL SUMMARY OF LEVELS, 1981

Station 7078: Green Bay, Wisconsin on Lake Michigan (Green Bay)

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.65	Aug	176.36	Feb
Daily mean elevation:	176.84	10 May	176.20	27 Sep
Instant/hourly elevation:	177.16	1700/9 May	175.84	1200/27 Sep

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.45	25 Jan
176.46	22 Feb
176.44	31 Mar
176.62	23 Apr
176.84	10 May
176.69	30 Jun
176.73	21 Jul
176.77	28 Aug
176.76	30 Sep
176.76	1 Oct
	Nov
	Dec

STATION CLOSED

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.30	7 Jan
176.28	2 Feb
176.32	14 Mar
176.34	6 Apr
176.49	31 May
176.52	18 Jun
176.55	31 Jul
176.57	23 Aug
176.20	27 Sep
176.31	19 Oct
	Nov
	Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.80					1								176.80	1
176.75								3	1	1			176.75	6
176.70							3	3	1				176.70	13
176.65					2	1	10	5	4				176.65	35
176.60				2	4	9	12	17	6	1			176.60	86
176.55				2	10	12	4	3	7	5			176.55	129
176.50				6	11	8	2		5	8			176.50	169
176.45		1		6	3					3			176.45	182
176.40	5	5	5	4					2				176.40	203
176.35	14	11	17	4									176.35	249
176.30	11	7	9	2						2			176.30	280
176.25	1	4											176.25	285
176.20													176.20	285
176.15									1				176.15	286

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7078: Green Bay, Wisconsin on Lake Michigan (Green Bay)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.43	176.41	176.35	176.35	176.61	176.53*	176.73	176.58	176.67	176.76	/	/
2	176.34	176.28	176.33	176.36	176.49	176.57*	176.72	176.61	176.64	176.61	/	/
3	176.33	176.30*	176.37	176.44	176.54	176.59*	176.68	176.61	176.63	176.52	/	/
4	176.33	176.31*	176.40	176.49	176.56	176.56*	176.67	176.63	176.68	176.55	/	/
5	176.38	176.36	176.42	176.37	176.66	176.54	176.66	176.63	176.66	176.56	/	/
6	176.34	176.33	176.37	176.34	176.55	176.56	176.63	176.63	176.63	176.51	/	/
7	176.30	176.40	176.37	176.41	176.50	176.56	176.62	176.74	176.59	176.47	/	/
8	176.37	176.30	176.40	176.46	176.52	176.54	176.60	176.71	176.59	176.51	/	/
9	176.33	176.31	176.41	176.42	176.62	176.53	176.60	176.63	176.52	176.60	/	/
10	176.32	176.31	176.40	176.42	176.84	176.55	176.60	176.66	176.58	176.59	/	/
11	176.34	176.30	176.37	176.52	176.68	176.57	176.62	176.61	176.63	176.56	/	/
12	176.39	176.32	176.35	176.59	176.53	176.58	176.65	176.57	176.58	176.56	/	/
13	176.41	176.40	176.34	176.53	176.53	176.63	176.64	176.66	176.57	176.53	/	/
14	176.41	176.38	176.32	176.48	176.55	176.63	176.63	176.64	176.65	176.51	/	/
15	176.43	176.42	176.34	176.36	176.57	176.59	176.68	176.70	176.64	176.53	/	/
16	176.37	176.37	176.36	176.39*	176.63	176.55	176.63	176.76	176.74	176.47	/	/
17	176.39	176.38	176.34	/	176.61	176.55	176.62	176.65	176.70	176.51	/	/
18	176.36	176.39	176.36	/	176.58	176.52	176.65	176.61	176.52	176.49	/	/
19	176.38	176.38	176.34	/	176.55	176.59	176.67	176.63	176.42*	176.31	/	/
20	176.40	176.35	176.35	/	176.53	176.63	176.70	176.63	/	176.33*	/	/
21	176.40	176.36	176.38	176.49*	176.52	176.65	176.73	176.62	/	/	/	/
22	176.32	176.46	176.40	176.55	176.55	176.62	176.67	176.61	/	/	/	/
23	176.36	176.42	176.39	176.62	176.59	176.60	176.62	176.57	176.55*	/	/	/
24	176.39	176.37	176.38	176.56	176.60	176.63	176.62	176.66	176.53	/	/	/
25	176.45	176.34	176.38	176.47	176.56	176.61	176.69	176.63	176.59	/	/	/
26	176.37	176.38	176.44	176.52	176.55*	176.59	176.66	176.66	176.55	/	/	/
27	176.33	176.45	176.38	176.54	176.58*	176.62	176.63	176.76	176.20	/	/	/
28	176.37	176.42	176.37	176.61*	176.56	176.59	176.69	176.77	176.41	/	/	/
29	176.34		176.39	176.49*	176.58	176.61	176.59	176.71	176.60	/	/	/
30	176.35		176.41	176.54	176.58	176.69	176.55	176.65	176.76	/	/	/
31	176.38		176.44		176.49		176.55	176.64		/	STATION CLOSED	/
MEAN	176.37	176.36	176.38	176.47	176.57	176.59	176.65	176.65	176.59	176.52	/	/
MAX.	176.60	176.71	176.60	176.78	177.16	176.82	177.04	176.96	176.97	177.03		
	1700/16	0800/23	1500/16	2400/27	1700/09	2000/06	2100/25	0500/16	1800/11	1500/01		
MIN.	176.04	176.08	176.06	176.09	176.24	176.23	176.37	176.46	175.84	176.13		
	0100/07	2400/02	1100/16	0200/02	0100/03	0100/08	2400/29	2400/14	1200/27	1900/19		

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.52

ANNUAL SUMMARY OF LEVELS, 1981

Station 7079: Green Bay, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.65	Aug	Monthly mean elevation:	176.35	Dec
Daily mean elevation:	176.76	1 Oct	Daily mean elevation:	176.11	24 Dec
Instant/hourly elevation:	177.04	2100/25 Jul	Instant/hourly elevation:	175.83	1200/27 Sep

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.45	25 Jan
176.47	22 Feb
176.45	31 Mar
176.51	11 Apr
176.61	26 May
176.68	30 Jun
176.73	21 Jul
176.76	28 Aug
176.76	30 Sep
176.76	1 Oct
176.70	19 Nov
176.55	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.29	7 Jan
176.28	2 Feb
176.33	2 Mar
176.35	6 Apr
176.54	31 May
176.53	18 Jun
176.55	31 Jul
176.57	23 Aug
176.20	27 Sep
176.32	24 Oct
176.25	10 Nov
176.11	24 Dec

~~~~~~~~~~~~ FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS ~~~~~~~~~~~~

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.75								3	1	1			176.75	5
176.70							3	2	2				176.70	12
176.65						1	8	4	4		1		176.65	30
176.60					1	8	14	17	7	1	1		176.60	79
176.55					4	13	4	5	8	11			176.55	124
176.50				1	1	5	2		6	9	2	1	176.50	151
176.45		1		2						5	7		176.45	166
176.40	5	5	5	3					1	2	12	6	176.40	205
176.35	14	10	20	4							3	12	176.35	268
176.30	11	7	6	1						2	1	5	176.30	301
176.25	1	5									2	3	176.25	312
176.20											1	3	176.20	316
176.15									1				176.15	317
176.10												1	176.10	318
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7079: Green Bay, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.43	176.41	176.35	176.36	/	176.56	176.73	176.57	176.66	176.76	176.49	176.55
2	176.33	176.28	176.33	176.37	/	176.60	176.71	176.61	176.64	176.62	176.50	176.41
3	176.33	176.30	176.38	176.45	/	176.59	176.68	176.60	176.63	176.53	176.52	176.42
4	176.33	176.30	176.40	176.49	/	176.56*	176.66	176.62	176.68	176.56	176.50	176.45
5	176.38	176.35	176.42	176.38	/	/	176.65	176.62	176.66	176.56	176.49	176.38
6	176.33	176.33	176.38	176.35	/	/	176.63	176.63	176.63	176.50	176.42	176.36
7	176.29	176.40	176.37	176.41	/	/	176.61	176.73	176.58	176.47	176.40	176.40
8	176.37	176.30	176.40	176.47	/	176.54*	176.60	176.70	176.59	176.52	176.46	176.41
9	176.33	176.32	176.41	176.40	/	176.53	176.60	176.63	176.52	176.60	176.42	176.41
10	176.31	176.32	176.40	176.43	/	176.56	176.60	176.65	176.58	176.60	176.25	176.39
11	176.34	176.30	176.37	176.51*	/	176.57	176.61	176.60	176.63	176.57	176.44	176.37
12	176.39	176.33	176.36	/	/	176.58	176.64	176.57	176.57	176.56	176.42	176.38
13	176.41	176.40	176.36	/	/	176.63	176.64	176.65	176.57	176.55	176.39	176.34
14	176.41	176.38	176.34	/	/	176.63	176.63	176.64	176.64	176.52	176.45	176.33
15	176.43	176.43	176.35	/	/	176.59	176.68	176.70	176.64	176.55	176.47	176.36
16	176.37	176.38	176.38	/	/	176.55	176.62	176.76	176.73	176.48	176.47	176.36
17	176.39	176.39	176.34	/	/	176.55	176.61	176.64	176.71	176.52	176.42	176.38
18	176.36	176.40	176.37	/	/	176.53	176.64	176.61	176.52	176.50	176.43	176.36
19	176.38	176.38	176.36	/	/	176.59	176.66	176.63	176.55	176.32	176.70	176.34
20	176.40	176.35	176.35	/	/	176.63	176.70	176.63	176.55	176.50	176.61	176.27
21	176.40	176.36	176.38	/	/	176.64	176.73	176.62	176.65	176.56	176.44	176.21
22	176.32	176.47	176.40	/	/	176.62	176.66	176.61	176.66	176.51	176.39	176.31
23	176.36	176.42	176.40	/	/	176.60	176.62	176.57	176.56	176.45	176.45	176.23
24	176.38	176.37	176.38	/	/	176.63	176.61	176.66	176.53	176.32	176.45	176.11
25	176.45	176.35	176.39	/	/	176.61	176.68	176.63	176.59	176.41	176.43	176.26
26	176.37	176.38	176.44	/	176.61*	176.59	176.65	176.66	176.55	176.53	176.53	176.40
27	176.33	176.45	176.39	/	176.60	176.62	176.62	176.76	176.20	176.53	176.30	176.36
28	176.36	176.42	176.38	/	176.57	176.59	176.69	176.76	176.42	176.56	176.30	176.25
29	176.34		176.39	/	176.59	176.60	176.58	176.71	176.60	176.58	176.35	176.27
30	176.34		176.42	/	176.59	176.68	176.55	176.64	176.76	176.58	176.43	176.33
31	176.38		176.45		176.54		176.55	176.64		176.56		176.41
MEAN	176.37	176.37	176.38	176.42	176.58	176.59	176.64	176.65	176.59	176.53	176.44	176.35
MAX.	176.60	176.71	176.61	176.75	176.70	176.80	177.04	176.95	176.97	177.02	176.87	176.75
	1700/16	0800/23	0400/16	0300/11	2300/26	0500/25	2100/25	0500/16	1800/11	1500/01	0600/06	0800/01
MIN.	176.01	176.06	176.12	176.10	176.37	176.37	176.38	176.46	175.83	176.09	175.90	175.93
	0100/07	1300/04	1100/16	0200/02	2400/31	2300/10	2400/29	2400/14	1200/27	2300/24	0900/10	2400/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.49

ANNUAL SUMMARY OF LEVELS, 1981

Station 7096: Port Inland, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST			LOWEST		
Monthly mean elevation:	176.61	Jul		176.36	Feb	
Daily mean elevation:	176.69	28 Jun		176.25	10 Feb	
Instant/hourly elevation:	176.83	1000/1 Oct		176.13	2200/15 Mar	

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.43	1 Jan
176.43	15 Feb
176.43	28 Mar
176.63	23 Apr
176.58	25 May
176.69	28 Jun
176.66	3 Jul
176.67	29 Aug
176.63	11 Sep
176.64	1 Oct
176.54	26 Nov
176.52	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.32	27 Jan
176.25	10 Feb
176.31	17 Mar
176.32	5 Apr
176.45	10 May
176.54	6 Jun
176.54	26 Jul
176.56	16 Aug
176.38	28 Sep
176.38	7 Oct
176.31	28 Nov
176.26	25 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
176.65						2	2	1					176.65	5
176.60				1		10	14	9	2	1			176.60	42
176.55					10	14	11	21	13	4			176.55	115
176.50				1	15	4	3		11	11	1	1	176.50	162
176.45				15	5				3	14	12	1	176.45	212
176.40	4	4	3	8	1						8	8	176.40	248
176.35	16	10	19	4					1	1	8	6	176.35	313
176.30	11	12	9	1							1	11	176.30	358
176.25		1										4	176.25	363
176.20		1											176.20	364

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 7096: Port Inland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.43	176.41	176.38	176.48	176.51	176.58	176.63	176.59	176.63	176.64	176.47	176.52
2	176.33	176.29	176.31	176.37	176.51	176.58	176.66	176.58	176.56	176.48	176.47	176.45
3	176.35	176.33	176.39	176.44	176.56	176.58	176.66	176.58	176.60	176.49	176.49	176.41
4	176.36	176.32	176.38	176.44	176.56	176.54	176.64	176.59	176.56	176.55	176.48	176.41
5	176.42	176.39	176.38	176.32	176.47	176.58	176.63	176.56	176.59	176.53	176.50	176.40
6	176.33	176.33	176.35	176.38	176.48	176.54	176.63	176.60*	176.59	176.50	176.38	176.49
7	176.33	176.39	176.35	176.45	176.50	176.55	176.64	176.63*	176.60	176.38	176.46	176.41
8	176.38	176.32	176.39	176.42	176.53	176.62	176.64	176.63*	176.52	176.50	176.43	176.32
9	176.34	176.33	176.40	176.45	176.49	176.55	176.59	176.61*	176.60	176.55	176.43	176.32
10	176.35	176.25	176.38	176.47	176.45	176.57	176.61	176.62*	176.57	176.55	176.50	176.29
11	176.36	176.31	176.38	176.42	176.51	176.58	176.62*	176.60	176.63	176.50	176.40	176.34
12	176.39	176.33	176.39	176.47	176.51	176.57	/	176.60	176.58	176.52	176.49	176.40
13	176.40	176.39	176.31	176.47	176.54	176.61	176.58*	176.61*	176.58	176.56	176.45	176.37
14	176.38	176.36	176.40	176.38	176.54	176.62	176.58	176.59*	176.55	176.58	176.47	176.37
15	176.38	176.43	176.31	176.46	176.56	176.62	176.62	176.56*	176.53	176.49	176.47	176.34
16	176.36	176.39	176.39	176.48	176.52	176.62	176.60	176.56	176.54	176.50	176.46	176.33
17	176.39	176.39	176.31	176.48	176.54	176.60	176.61	176.59	176.55	176.59	176.42	176.35
18	176.36	176.39	176.35	176.40	176.53	176.66	176.62	176.58	176.57	176.50	176.37	176.32
19	176.37	176.35	176.34	176.45	176.53	176.59	176.62	176.59	176.49	176.49	176.38	176.33
20	176.38	176.32	176.34	176.44	176.56	176.63	176.60	176.59	176.50	176.48	176.39	176.42
21	176.41	176.32	176.36	176.49	176.56	176.62	176.55	176.59	176.52	176.51	176.38	176.41
22	176.33	176.37	176.38	176.54	176.55	176.60	176.59	176.61	176.53	176.54	176.40	176.35
23	176.35	176.40	176.37	176.63	176.57	176.60	176.60	176.59	176.51	176.46	176.43	176.39
24	176.36	176.39	176.36	176.47	176.58	176.65	176.63*	176.57	176.52	176.55	176.45	176.27
25	176.42	176.31	176.37	176.46	176.58	176.58	176.58	176.60	176.56	176.51	176.44	176.26
26	176.38	176.35	176.41	176.49	176.56	176.59	176.54	176.59	176.60	176.50	176.54	176.37
27	176.32	176.41	176.38	176.49	176.55	176.63	176.55	176.58	176.52	176.49	176.46	176.44
28	176.36	176.42	176.43	176.46	176.55	176.69	176.58	176.65	176.38	176.47	176.31	176.29
29	176.33		176.39	176.50	176.57	176.64	176.58	176.67	176.50	176.53	176.40	176.31
30	176.34		176.41	176.49	176.50	176.59	176.57	176.62	176.55	176.56	176.42	176.32
31	176.38		176.40		176.55		176.61	176.63		176.55		176.42
MEAN	176.37	176.36	176.37	176.46	176.53	176.60	176.61	176.60	176.55	176.52	176.44	176.37
MAX.	176.53	176.59	176.52	176.74	176.64	176.82	176.70	176.72	176.74	176.83	176.67	176.64
	1700/05	1900/22	2400/31	1200/23	0100/25	0300/29	2100/02	0900/29	0600/27	1000/01	0700/10	2200/01
MIN.	176.22	176.19	176.13	176.26	176.33	176.46	176.48	176.49	176.25	176.33	176.26	176.15
	2200/06	2400/10	2200/15	1800/05	2100/09	1800/06	0200/26	2300/15	0400/28	1000/07	0200/28	0200/25

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 176.48

ANNUAL SUMMARY OF LEVELS, 1981

Station 9004: Pt. Iroquois, Brimley, Michigan on Lake Superior (Whitefish Bay

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	183.13	Jul	182.86	Feb	
Daily mean elevation:	183.21	18 Oct	182.78	28 Mar	
Instant/hourly elevation:	183.47	1400/18 Oct	182.60	0300/1 Apr	

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.02	1 Jan
182.95	11 Feb
182.93	2 Mar
183.07	14 Apr
183.08	5 May
183.18	25 Jun
183.17	21 Jul
183.16	16 Aug
183.14	8 Sep
183.21	18 Oct
183.10	27 Nov
183.00	10 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.80	25 Jan
182.78	15 Feb
182.78	28 Mar
182.84	2 Apr
182.91	3 May
182.98	1 Jun
183.08	31 Jul
183.03	31 Aug
182.94	30 Sep
182.88	30 Oct
182.87	26 Nov
182.83	26 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
183.20										1			183.20	1
183.15						2	5	3					183.15	11
183.10						5	23	14	3	1			183.10	57
183.05				1	5	17	3	11	14	3	3		183.05	114
183.00	4			2	16	4		3	8	8	9		183.00	168
182.95	3			10	8	2			3	13	8	9	182.95	224
182.90	8	4	2	7	2				2	4	8	11	182.90	272
182.85	13	10	19	9						1	2	9	182.85	335
182.80	2	10	7	1								2	182.80	357
182.75	1	4	3										182.75	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9004: Pt. Iroquois, Brimley, Michigan on Lake Superior (Whitefish Bay

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.02	182.88	182.91	182.89	183.00	182.98	183.15	183.10	183.10	183.00*	183.00	182.91
2	182.99	182.92	182.93	182.84	182.93	183.00	183.12	183.13	183.09	183.04	183.02	182.99
3	182.99	182.89	182.86	182.88	182.91	183.06	183.12	183.14	183.07	182.99	182.99	182.95
4	183.01	182.89	182.90	182.94	182.99	183.06	183.14	183.16	183.11	182.96*	182.97	182.97
5	182.94	182.85	182.89	183.01	183.08	183.03	183.15	183.13	183.08	182.99	183.03	182.96
6	183.01	182.88	182.90	182.90	183.04	183.09	183.14	183.11	183.05	183.12	183.09	182.87
7	182.99	182.85	182.89	182.88	183.01	183.02	183.12	183.13	183.06	183.09	182.99	182.97
8	182.93	182.91	182.87	182.93	182.98	183.06	183.13	183.14	183.14	183.02	183.09	182.99
9	183.01	182.86	182.87	182.91	183.07	183.08	183.17	183.12	183.04	182.97	183.00	183.00
10	182.94	182.89	182.88	182.89	183.05	183.07	183.14	183.15	183.07	182.97	183.02	183.00
11	182.94	182.95	182.86	182.94	183.07	183.06	183.13	183.12	183.04	182.99	183.01	182.96
12	182.89	182.84	182.90	182.89	183.06	183.06	183.14	183.13	183.06	182.96*	182.94	182.89
13	182.90	182.82	182.89	182.90	183.04	183.02	183.16	183.11	183.07	182.91*	182.93	182.93
14	182.89	182.80	182.86	183.07	183.03	183.05	183.16	183.09	183.09	182.95	182.92	182.94
15	182.90	182.78	182.89	182.91	183.04	183.08	183.14	183.16	183.09	183.05*	182.93	182.95
16	182.92	182.80	182.88	182.91	183.05	183.10	183.14	183.16	183.07	182.97	182.95	182.94
17	182.90	182.81	182.90	182.96	183.03	183.06	183.12	183.12	183.05	182.93*	183.01	182.94
18	182.92	182.81	182.88	182.98	183.03	183.07	183.13	183.11	183.02	183.21	183.04	182.96
19	182.90	182.84	182.89	182.98	183.01	183.10	183.13	183.11	183.08	183.03	183.00	182.93
20	182.87	182.86	182.88	182.96	183.00	183.08	183.15	183.09	183.07	183.08*	183.02	182.86
21	182.89	182.82	182.85	182.88	183.00	183.11	183.17	183.08	183.03	183.03	183.01	182.87
22	182.93	182.80	182.83	182.86	182.98	183.14	183.14	183.06	183.02	183.02	182.99	182.89
23	182.90	182.85	182.85	182.94	182.97	183.11	183.11	183.09	182.99	183.09	182.95	182.90
24	182.85	182.90	182.84	183.03	182.98	183.10	183.08	183.09	182.98	182.97	182.93	182.95
25	182.80	182.90	182.80	183.00	183.01	183.18	183.14	183.07	182.96	183.01	182.90	182.92
26	182.93	182.87	182.82	182.97	183.05	183.13	183.16	183.07	182.94	182.98	182.87	182.83
27	182.89	182.81	182.83	182.98	183.03	183.09	183.14	183.09	183.12	183.02	183.10	182.84
28	182.89	182.92	182.78	182.98	183.02	183.07	183.14	183.05	183.09	182.99	183.05	182.95
29	182.90		182.84	182.99	183.01	183.14	183.12	183.04	183.01	182.93	182.97	182.89
30	182.87		182.88	182.99	183.06	183.17	183.09	183.06	182.94	182.88*	182.93	182.87
31	182.81		182.80		183.01		183.08	183.03		182.97*		182.86
MEAN	182.92	182.86	182.87	182.94	183.02	183.08	183.13	183.10	183.05	183.00	182.99	182.93
MAX.	183.19	183.06	183.00	183.22	183.21	183.27	183.23	183.22	183.43	183.47	183.27	183.07
	1900/01	1900/01	2000/01	0800/14	1000/05	1000/14	0500/09	0900/15	2100/27	1400/18	1200/08	2300/09
MIN.	182.71	182.67	182.63	182.60	182.81	182.80	183.00	182.92	182.84	182.80	182.80	182.68
	0900/25	0200/15	2300/31	0300/01	0600/03	1500/14	1900/31	1500/31	1500/26	1900/30	0600/26	0500/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 182.99

ANNUAL SUMMARY OF LEVELS, 1981

Station 9018: Marquette Coast Guard, Marquette, Michigan on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	183.16	Jul	182.88	Feb
Daily mean elevation:	183.18	30 Jun	182.84	28 Mar
Instant/hourly elevation:	183.28	1000/15 Jun	182.76	1400/29 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.03	3 Jan
182.95	2 Feb
182.94	2 Mar
183.02	23 Apr
183.08	9 May
183.18	30 Jun
183.17	21 Jul
183.17	15 Aug
183.12	2 Sep
183.12	18 Oct
183.05	20 Nov
183.01	8 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.86	31 Jan
182.84	15 Feb
182.84	28 Mar
182.90	2 Apr
182.98	2 May
183.05	1 Jun
183.12	31 Jul
183.08	31 Aug
182.99	30 Sep
182.99	30 Oct
182.95	25 Nov
182.89	30 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
183.15						3	19	5					183.15	27
183.10						16	12	22	4	1			183.10	82
183.05					7	10		4	15	2			183.05	120
183.00	2			3	22	1			10	23	16	1	183.00	198
182.95	9			16	2				1	5	13	13	182.95	257
182.90	17	8	8	9							1	9	182.90	309
182.85	3	18	21	2								8	182.85	361
182.80		2	2										182.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9018: Marquette Coast Guard, Marquette, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.00	182.92	182.90	182.90	183.01	183.05	183.17	183.14	183.11	183.06	183.02	182.98
2	183.02	182.95	182.94	182.90	182.98	183.06	183.17	183.15	183.12	183.05	183.02	182.99
3	183.03	182.91	182.90	182.93	183.00	183.10	183.17	183.16	183.09	183.01	183.02	182.99
4	183.00	182.90	182.91	183.00	183.05	183.09	183.17	183.16	183.11	183.00	183.01	182.98
5	182.93	182.86	182.91	182.99	183.07	183.08	183.17	183.15	183.10	183.02	183.04	182.97
6	182.99	182.87	182.92	182.94	183.04	183.09	183.16	183.14	183.08	183.04	183.05	182.95
7	183.00	182.91	182.90	182.92	183.04	183.08	183.16	183.17	183.07	183.05	183.02	182.99
8	182.95	182.92	182.89	182.95	183.04	183.09	183.16	183.15	183.11	183.02	183.04	183.01
9	182.98	182.87	182.89	182.94	183.08	183.09	183.17	183.15	183.08	183.01	183.03	183.00
10	182.98	182.91	182.89	182.94	183.07	183.11	183.17	183.15	183.08	183.01	183.01	182.98
11	182.98	182.90	182.88	182.96	183.07	183.09	183.16	183.15	183.08	183.01	183.01	182.96
12	182.93	182.86	182.90	182.96	183.05	183.11	183.17	183.15	183.08	183.00	182.98	182.93
13	182.93	182.84	182.90	182.94	183.05	183.10	183.16	183.15	183.09	182.99	182.98	182.93
14	182.94	182.86	182.86	183.00	183.04	183.14	183.16	183.14	183.08	183.01	182.98	182.95
15	182.97	182.84	182.91	182.96	183.04	183.12	183.16	183.17	183.09	183.03	182.99	182.97
16	182.97	182.86	182.89	182.96	183.06	183.12	183.15	183.16	183.10	183.01	183.00	182.96
17	182.92	182.86	182.93	182.97	183.05	183.12	183.15	183.13	183.07	183.02	183.00	182.97
18	182.92	182.86	182.92	182.98	183.04	183.12	183.16	183.13	183.04	183.12	183.02	182.99
19	182.92	182.87	182.90	182.99	183.04	183.13	183.15	183.13	183.08	183.04	183.04	182.95
20	182.92	182.87	182.88	182.97	183.04	183.14	183.16	183.13	183.07	183.05	183.05	182.89
21	182.91	182.86	182.86	182.94	183.03	183.14	183.17	183.12	183.05	183.05	183.02	182.89
22	182.91	182.88	182.86	182.95	183.03	183.14	183.15	183.11	183.04	183.05	182.98	182.90
23	182.91	182.90	182.87	183.02	183.03	183.13	183.15	183.11	183.01	183.06	182.97	182.90
24	182.91	182.90	182.86	183.01	183.04	183.15	183.12	183.11	183.01	183.01	182.96	182.90
25	182.89	182.91	182.85	183.00	183.05	183.16	183.15	183.11	183.02	183.02	182.95	182.91
26	182.93	182.89	182.86	183.00	183.06	183.15	183.16	183.10	183.01	183.02	182.97	182.90
27	182.92	182.87	182.86	183.00	183.05	183.15	183.15	183.11	183.01	183.04	183.00	182.90
28	182.92	182.91	182.84	183.00	183.04	183.14	183.15	183.11	183.05	183.04	183.01	182.92
29	182.93		182.87	183.00	183.05	183.17	183.15	183.09	183.02	183.00	182.97	182.91
30	182.89		182.91	183.01	183.06	183.18	183.13	183.09	182.99	182.99	182.97	182.89
31	182.86		182.89		183.05		183.12	183.08		183.01		182.93
MEAN	182.94	182.88	182.89	182.97	183.04	183.12	183.16	183.13	183.06	183.03	183.00	182.94
MAX.	183.09	183.07	182.99	183.15	183.23	183.28	183.22	183.21	183.17	183.23	183.11	183.07
	2400/01	2100/01	2400/01	1200/04	2300/29	1000/15	0500/12	1600/04	0900/01	1200/18	0400/06	1300/01
MIN.	182.82	182.79	182.76	182.76	182.94	182.96	183.08	183.03	182.87	182.94	182.93	182.84
	1600/24	0600/01	1400/29	0400/01	2000/02	0600/01	1800/31	2000/31	0100/27	0700/04	0400/25	1800/30

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 183.01

ANNUAL SUMMARY OF LEVELS, 1981

Station 9044: Ontonagon, Michigan on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	183.17	Jul	182.94	Dec
Daily mean elevation:	183.20	2 Jul	182.90	24 Dec
Instant/hourly elevation:	183.37	1500/14 Jun	182.84	2400/31 Dec

HIGHEST DAILY MEAN FOR EACH MONTH		LOWEST DAILY MEAN FOR EACH MONTH	
Elev.	Date	Elev.	Date
183.00	2 Jan	182.95	11 Jan
	Feb		Feb
182.99	31 Mar	182.90	28 Mar
183.02	23 Apr	182.93	5 Apr
183.09	24 May	183.00	1 May
183.19	30 Jun	183.10	8 Jun
183.20	2 Jul	183.14	22 Jul
183.19	13 Aug	183.10	30 Aug
183.12	10 Sep	183.00	27 Sep
183.07	20 Oct	183.01	2 Oct
183.04	15 Nov	182.97	27 Nov
183.00	1 Dec	182.90	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
183.15						10	24	15					183.15	49
183.10						13	7	15	8				183.10	92
183.05					16	4		1	12	6			183.05	131
183.00				3	11				9	16	15		183.00	185
182.95	10		2	25	1				1		12	9	182.95	245
182.90	1		1	2								19	182.90	268
182.85			1									3	182.85	272

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9044: Ontonagon, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	182.99	/	/	182.96	183.00	183.10	183.20	183.16	183.11	183.05	/	183.00
2	183.00	/	/	182.99	183.03	183.11	183.20	183.18	183.12	183.01	/	182.97
3	182.99	/	/	182.99	183.06	183.10	183.19	183.17	183.12	183.03	/	182.99
4	182.96	/	/	182.99	183.07	183.10	183.18	183.16	183.11	183.04	183.04*	182.97
5	182.96	/	/	182.93	183.09	/	183.18	183.18	183.09	183.03	183.04	182.97
6	182.98	/	/	182.95	183.09*	/	183.18	183.18	183.09	183.02	183.03	182.99
7	182.96	/	/	182.97	/	/	183.19	183.17	183.10	183.02	183.04	182.97
8	182.97	/	/	182.98	/	183.10	183.19	183.16	183.09	183.04	183.04	182.96
9	182.96	/	/	182.97*	183.05*	183.11	183.18	183.17	183.11	183.05	183.02	182.95
10	182.96	/	/	182.99	183.06	183.11	183.18	183.17	183.12	183.05	183.01	182.95
11	182.95*	/	/	182.99	183.04	183.11	183.19	183.17	183.11	183.04	183.03	182.94
12	/	/	/	183.00	183.04	183.13	183.18	183.17	183.10	183.04	183.01	182.93
13	/	/	/	182.99	183.04	183.14	183.17	183.19	183.11	183.06	183.03	182.94
14	/	/	/	182.97	183.06*	183.17	183.17	183.17	183.09	183.06	183.04	182.95
15	/	/	/	182.97	/	183.14	183.16	183.16	183.09	183.04	183.04	182.96
16	/	/	/	182.98	183.04*	183.15	183.16	183.13	183.08	183.05	183.03	182.95
17	/	/	/	182.98	183.05	183.17	183.17	183.13	183.06	183.07	183.00	182.94
18	/	/	/	182.99	183.04	183.14	183.16	183.13	183.05	/	183.00	182.93
19	/	/	/	182.97	183.04	183.15	183.17	183.14	183.07	183.06*	183.01	182.92
20	/	/	/	182.97	183.04	183.17	183.15	183.14	183.06	183.07	182.99	182.90
21	/	/	/	182.99	183.05	183.16	183.14	183.14	183.05	183.04	182.97	182.91
22	/	/	/	183.01	183.07	183.14	183.14	183.14	183.03	183.05	182.98	182.92
23	/	/	/	183.02	183.08	183.15	183.15	183.13	183.04	183.06*	182.99	182.90
24	/	/	/	182.99	183.09	183.18	183.16	183.15	183.03	/	182.98	182.90
25	/	/	/	183.00	183.08	183.15	183.16	183.12	183.04	/	183.00	182.93
26	/	/	/	183.00	183.07	183.17	183.15	183.12	183.03	/	183.02	182.94
27	/	/	/	183.00	183.07	183.18	183.16	183.11	183.00	/	182.97	182.92
28	/	/	182.90*	183.00	183.08	183.19	183.16	183.11	183.04	/	182.98	182.91
29	/		182.94	183.00	183.06*	183.18	183.15	183.11	183.04	/	182.98	182.91
30	/		182.98	183.01	183.06	183.19	183.16	183.10	183.07	/	182.99	182.92
31	/		182.99		183.07		183.15	183.11		/		182.93
MEAN	182.97	/	182.95	182.98	183.06	183.14	183.17	183.15	183.08	183.04	183.01	182.94
MAX.	183.04		183.07	183.11	183.14	183.37	183.25	183.25	183.21	183.15	183.08	183.07
	0600/01		1600/31	1600/03	1600/04	1500/14	1500/11	1700/03	0900/11	0800/01	1700/04	1100/01
MIN.	182.92		182.84	182.86	182.97	182.94	183.08	183.06	182.90	182.96	182.93	182.84
	1300/11		1800/28	1000/05	1200/01	2200/13	2300/31	1000/30	2200/26	0300/06	1300/27	2400/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 183.04

ANNUAL SUMMARY OF LEVELS, 1981
Station 9064: Duluth, Minnesota on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	183.21	Aug	182.91	Mar
Daily mean elevation:	183.29	24 Aug	182.84	11 Feb
Instant/hourly elevation:	183.35	0300/1 Oct	182.76	1000/27 Sep

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.98	24 Jan
182.98	27 Feb
183.04	31 Mar
183.09	22 Apr
183.15	23 May
183.24	30 Jun
183.25	2 Jul
183.29	24 Aug
183.24	30 Sep
183.17	30 Oct
183.09	15 Nov
183.05	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.88	21 Jan
182.84	11 Feb
182.86	14 Mar
182.90	1 Apr
183.05	1 May
183.10	8 Jun
183.18	26 Jul
183.18	23 Aug
182.89	27 Sep
182.98	18 Oct
182.91	27 Nov
182.89	23 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
183.25								1					183.25	1
183.20						8	21	16	1				183.20	47
183.15						12	10	14	5	2			183.15	90
183.10					12	9			12	9			183.10	132
183.05				8	18	1			9	15	10		183.05	193
183.00			1	10	1				2	3	13	5	183.00	228
182.95	9	2	2	9						2	6	12	182.95	270
182.90	19	12	16	2							1	12	182.90	332
182.85	3	13	12	1					1			2	182.85	364
182.80		1											182.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9064: Duluth, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	182.94	182.89	182.87	182.90	183.05	183.17	183.25	183.19	183.15	183.13	183.06	183.05
2	182.98	182.86	182.91	182.99	183.12	183.15	183.25	183.21	183.20	183.07	183.08	183.00
3	182.94	182.86	182.97	183.00	183.12	183.12	183.24	183.21	183.16	183.12	183.07	183.04
4	182.95	182.86	182.93	182.99	183.09	183.14	183.22	183.19	183.16	183.11	183.09	182.99
5	182.96	182.88	182.93	182.93	183.08	183.11	183.23	183.24	183.18	183.08	183.01	183.02
6	182.94	182.90	182.91	183.01	183.09	183.12	183.22	183.24	183.18	183.00	183.05	183.04
7	182.95	182.95	182.91	182.99	183.10	183.17	183.23	183.21	183.12	183.05	183.06	182.97
8	182.93	182.89	182.93	182.99	183.12	183.10	183.22	183.21	183.11	183.11	182.99	182.99
9	182.91	182.87	182.92	183.00	183.10	183.13	183.18	183.20	183.13	183.13	183.02	182.97
10	182.92	182.89	182.91	183.01	183.11	183.12	183.20	183.19	183.15	183.11	182.99	182.99
11	182.91	182.84	182.89	183.00	183.08	183.14	183.22	183.20	183.12	183.10	183.06	182.99
12	182.97	182.91	182.87	183.05	183.09	183.17	183.20	183.20	183.10	183.13	183.05	182.98
13	182.97	182.92	182.89	183.00	183.09	183.22	183.19	183.24	183.12	183.12	183.07	182.96
14	182.95	182.94	182.86	182.95	183.10	183.19	183.24	183.21	183.09	183.08	183.09	182.95
15	182.96	182.93	182.90	183.01	183.10	183.18	183.23	183.20	183.10	183.07	183.09	182.96
16	182.92	182.90	182.87	183.02	183.14	183.16	183.21	183.21	183.11	183.09	183.04	182.96
17	182.89	182.92	182.87	182.97	183.12	183.22	183.22	183.20	183.10	183.10	183.00	182.94
18	182.92	182.91	182.88	183.03	183.08	183.13	183.21	183.19	183.04	182.98	183.05	182.93
19	182.96	182.92	182.87	183.02	183.09	183.19	183.21	183.19	183.08	183.08	183.04	182.93
20	182.97	182.93	182.88	183.04	183.07	183.20	183.21	183.20	183.10	183.09	183.00	182.95
21	182.88	182.95	182.91	183.08	183.09	183.20	183.21	183.21	183.13	183.10	183.01	182.92
22	182.90	182.95	182.91	183.09	183.12	183.18	183.22	183.21	183.12	183.06	183.03	182.94
23	182.93	182.90	182.89	183.04	183.15	183.21	183.24	183.18	183.10	183.04	183.05	182.89
24	182.98	182.87	182.91	183.01	183.13	183.21	183.22	183.29	183.08	183.09	183.02	182.90
25	182.97	182.92	182.95	183.06	183.11	183.19	183.19	183.24	183.15	183.05	183.07	182.94
26	182.92	182.96	182.92	183.07	183.10	183.21	183.18	183.21	183.07	183.10	183.04	183.01
27	182.91	182.98	182.93	183.08	183.10	183.24	183.20	183.21	182.89	183.08	182.91	182.93
28	182.92	182.89	182.94	183.06	183.11	183.24	183.19	183.23	183.03	183.14	182.99	182.91
29	182.91		182.98	183.07	183.08	183.20	183.19	183.19	183.15	183.16	183.00	182.91
30	182.91		182.94	183.08	183.10	183.24	183.22	183.19	183.24	183.17	183.04	182.98
31	182.94		183.04		183.11		183.19	183.22		183.06		182.94
MEAN	182.94	182.91	182.91	183.02	183.10	183.18	183.21	183.21	183.12	183.09	183.04	182.96
MAX.	183.06	183.04	183.18	183.16	183.23	183.35	183.31	183.33	183.35	183.35	183.16	183.14
	0300/20	0400/07	1700/31	2300/29	1500/02	1300/14	1400/17	1000/24	1600/30	0300/01	0800/04	0700/01
MIN.	182.77	182.77	182.76	182.78	182.93	182.99	183.08	183.11	182.76	182.89	182.85	182.81
	1300/21	0600/11	2000/17	1100/01	2000/29	0900/18	0200/25	2400/31	1000/27	1100/06	0600/27	2100/23

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 183.06

ANNUAL SUMMARY OF LEVELS, 1981

Station 9070: Two Harbors, Minnesota on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	183.20	Jul	182.89	Feb
Daily mean elevation:	183.23	24 Aug	182.83	17 Mar
Instant/hourly elevation:	183.34	1500/14 Jun	182.76	2000/17 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.97	24 Jan
182.96	27 Feb
182.99	31 Mar
183.07	22 Apr
183.12	24 May
183.22	28 Jun
183.22	23 Jul
183.23	24 Aug
183.18	2 Sep
183.20	1 Oct
183.08	15 Nov
183.05	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.87	21 Jan
182.83	11 Feb
182.83	17 Mar
182.89	1 Apr
183.04	1 May
183.10	8 Jun
183.17	26 Jul
183.17	30 Aug
182.91	27 Sep
182.98	18 Oct
182.91	27 Nov
182.88	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
183.20						3	8	4					183.20	15
183.15						11	23	27	4	1			183.15	81
183.10					2	14			9	5			183.10	111
183.05				1	28	2			14	18	6		183.05	180
183.00				11	1				2	5	15	7	183.00	221
182.95	3	1	1	15						2	7	6	182.95	256
182.90	18	9	8	2					1		1	13	182.90	308
182.85	10	16	17	1								2	182.85	354
182.80		2	2										182.80	358

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9070: Two Harbors, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	182.93	182.88	182.86	182.89	183.04	183.14	183.22	183.18	183.14	183.20*	183.05	183.04
2	182.97	182.86	182.90	182.97	183.09	183.13	183.22	183.19	183.18	183.07*	183.06	183.01
3	182.93	182.86	182.95	182.97	183.10	183.11	183.21	183.19	183.15	183.09	183.06	183.05
4	182.94	182.85	182.91	182.96	183.07	183.13	183.20	183.18	183.14	183.09	183.07	183.01
5	182.95	182.87	182.91	182.92	183.06	183.10	183.20	183.21*	183.16	183.05	183.01	183.03
6	182.92	182.89	182.90	182.99	183.07	183.11	183.20	183.22*	183.17	183.00	183.04	183.05
7	182.93	182.93	182.90	182.98	183.09	183.15	183.21	183.20	183.12	183.03	183.05	182.99
8	182.93	182.87	182.92	182.97	183.10	183.10	183.20	183.19	183.11	183.08	182.99	182.99
9	182.90	182.86	182.90	182.99	183.08	183.12	183.17	183.19	183.13	183.11	183.01	182.95
10	182.91	182.87	182.90	183.00	183.08	183.11	183.19	183.18	183.13	183.09	182.99	182.97
11	182.90	182.83	182.88	182.98	183.07	183.13	183.21	183.18	183.10	183.08	183.04	182.97
12	182.95	182.90	182.86	183.03	183.07	183.15	183.19	183.18	183.09	183.11	183.04	182.97
13	182.95	182.91	182.88	182.99	183.08	183.19	183.18	183.22	183.10	183.10	183.06	182.95
14	182.93	182.93	182.86	182.95	183.08	183.18	183.21	183.18	183.08	183.07	183.07	182.94
15	182.94	182.92	182.89	183.00	183.08	183.15	183.20	183.18	183.09	183.06	183.08*	182.94
16	182.91	182.89	182.84*	183.00	183.10	183.15	183.19	183.18	183.10	183.08	/	182.94
17	182.89	182.90	182.83*	182.98	183.09	183.20	183.20	183.18	183.09	183.09	182.99*	182.92
18	182.91	182.90	182.86	183.01	183.07	183.12	183.19	183.18	183.04	182.98	183.02	182.91
19	182.94	182.90	182.86*	183.00	183.07	183.17	183.20	183.18	183.07	183.07	183.02	182.92
20	182.95	182.91	/	183.01	183.06	183.18	183.19	183.18	183.08	183.08	182.99	182.94
21	182.87	182.93	/	183.05	183.08	183.18	183.18	183.19	183.11	183.08	182.99	182.91
22	182.89	182.93	/	183.07	183.10	183.15	183.20	183.19	183.09	183.06	183.01	182.93
23	182.91	182.88	182.89*	183.02	183.12	183.18	183.22	183.17	183.08	183.03	183.03	182.89
24	182.97	182.87	182.89	182.99	183.12	183.19	183.21	183.23	183.07	183.08	183.01	182.88
25	182.96	182.91	182.93	183.03	183.08	183.17	183.18	183.19	183.12	183.04	183.04	182.93
26	182.90	182.94	182.90	183.04	183.08	183.19	183.17	183.18	183.06	183.08	183.04	182.98
27	182.90	182.96	182.90	183.04	183.09	183.22	183.18	183.18	182.91	183.06	182.91	/
28	182.90	182.88	182.92	183.04	183.09	183.22	183.18	183.19	183.02	183.11*	182.98	/
29	182.90		182.95	183.04	183.07	183.18	183.18	183.17	183.08	183.13*	183.00	/
30	182.90		182.92	183.05	183.08	183.21	183.20	183.17	183.16	183.15	183.02	183.01*
31	182.93		182.99		183.09		183.18	183.20		183.05		182.93
MEAN	182.92	182.89	182.90	183.00	183.08	183.16	183.20	183.19	183.10	183.08	183.02	182.96
MAX.	183.03	183.00	183.10	183.14	183.18	183.34	183.28	183.27	183.26	183.25	183.14	183.11
	0400/20	0500/07	1700/31	0100/28	1400/02	1500/14	1800/31	0200/01	1500/30	0300/01	0900/04	0700/01
MIN.	182.79	182.77	182.76	182.78	182.97	183.01	183.11	183.12	182.78	182.89	182.87	182.82
	2300/21	0500/11	2000/17	1100/01	2000/29	0800/15	0800/28	2300/31	1100/27	1100/18	1100/27	2300/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 183.04

ANNUAL SUMMARY OF LEVELS, 1981

Station 9090: Grand Marais, Minnesota on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	183.15	Jul	182.86	Mar
Daily mean elevation:	183.17	13 Aug	182.81	11 Feb
Instant/hourly elevation:	183.24	0400/6 Aug	182.77	2000/17 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.93	5 Jan
182.90	27 Feb
182.92	31 Mar
183.00	30 Apr
183.06	24 May
183.17	28 Jun
183.17	7 Jul
183.17	13 Aug
183.11	6 Sep
183.08	30 Oct
183.03	4 Nov
182.98	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.86	29 Jan
182.81	11 Feb
182.82	17 Mar
182.88	1 Apr
183.00	1 May
183.07	6 Jun
183.13	26 Jul
183.11	30 Aug
182.93	27 Sep
182.96	18 Oct
182.91	27 Nov
182.88	28 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Elev. (m.)	No. of days above elev.
183.15						6	11	3					183.15	20
183.10						13	20	28	3				183.10	84
183.05					1	11			10	4			183.05	110
183.00					29				15	23	8		183.00	185
182.95				18	1				1	4	19	5	182.95	233
182.90	13		1	10					1		3	16	182.90	277
182.85	18	18	15	2								10	182.85	340
182.80		10	15										182.80	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1981

Station 9090: Grand Marais, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	182.92	182.86	182.85	182.88	183.00	183.07	183.17	183.13	183.10	183.03	183.02	182.98
2	182.93	182.84	182.86	182.92	183.03	183.08	183.17	183.14	183.11	182.99	183.01	182.95
3	182.91	182.83	182.90	182.92	183.04	183.07	183.17	183.15	183.11	183.03	183.02	182.98
4	182.91	182.84	182.87	182.91	183.03	183.09	183.16	183.14	183.09	183.04	183.03	182.96
5	182.93	182.85	182.87	182.90	183.02	183.08	183.16	183.15	183.10	183.02	183.00	182.97
6	182.90	182.85	182.86	182.95	183.04	183.07	183.16	183.17	183.11	182.98	183.00	182.98
7	182.91	182.86	182.86	182.95	183.05	183.10	183.17	183.16	183.09	183.00	183.02	182.94
8	182.91	182.84	182.88	182.94	183.05	183.09	183.16	183.15	183.06	183.01	182.97	182.93
9	182.88	182.84	182.87	182.95	183.04	183.09	183.15	183.15	183.09	183.04	183.00	182.92
10	182.90	182.83	182.87	182.96	183.04	183.08	183.15	183.15	183.09	183.04	182.98	182.92
11	182.89	182.81	182.86	182.94	183.03	183.10	183.16	183.15	183.07	183.02	183.00	182.94
12	182.92	182.86	182.85	182.97	183.03	183.11	183.16	183.14	183.07	183.04	183.00	182.95
13	182.91	182.86	182.85	182.96	183.04	183.13	183.14	183.17	183.06	183.05	183.02	182.92
14	182.90	182.87	182.84	182.93	183.04	183.14	183.15	183.15	183.04	183.04	183.02	182.92
15	182.91	182.88	182.85	182.97	183.04	183.13	183.15	183.12	183.04	183.02	183.02	182.92
16	182.89	182.86	182.83	182.97	183.04	183.12	183.15	183.13	183.04	183.04	183.00	182.91
17	182.89	182.86	182.82	182.95	183.03	183.16	183.15	183.14	183.05	183.06	182.97	182.90
18	182.89	182.86	182.83	182.97	183.03	183.12	183.15	183.13	183.03	182.96	182.98	182.90
19	182.90	182.86	182.83	182.96	183.04	183.13	183.15	183.13	183.02	183.04	182.98	182.90
20	182.91	182.86	182.83	182.96	183.03	183.14	183.14	183.13	183.03	183.04	182.95	182.93
21	182.87	182.87	182.84	182.99	183.04	183.13	183.13	183.13	183.04	183.04	182.96	182.90
22	182.88	182.89	182.86	183.00	183.05	183.12	183.14	183.13	183.04	183.03	182.97	182.91
23	182.88	182.86	182.84	182.99	183.05	183.15	183.15	183.12	183.05	183.01	182.99	182.90
24	182.92	182.85	182.84	182.97	183.06	183.16	183.16	183.15	183.02	183.06	182.98	182.89
25	182.91	182.87	182.87	182.98	183.04	183.13	183.14	183.14	183.05	183.02	183.00	182.90
26	182.87	182.89	182.85	183.00	183.04	183.15	183.13	183.12	183.04	183.04	183.00	182.93
27	182.87	182.90	182.85	183.00	183.04	183.17	183.15	183.12	182.93	183.02	182.91	182.92
28	182.87	182.86	182.88	183.00	183.05	183.17	183.14	183.13	182.99	183.04	182.95	182.88
29	182.86		182.88	183.00	183.04	183.16	183.14	183.12	183.01	183.06	182.97	182.89
30	182.87		182.87	183.00	183.05	183.16	183.15	183.11	183.04	183.08	182.98	182.91
31	182.90		182.92		183.05		183.14	183.14		183.03		182.90
MEAN	182.90	182.86	182.86	182.96	183.04	183.12	183.15	183.14	183.05	183.03	182.99	182.92
MAX.	183.04	182.96	183.00	183.07	183.15	183.23	183.22	183.24	183.16	183.14	183.09	183.08
	1000/25	0200/01	1500/29	0800/28	1400/02	2000/17	2100/24	0400/06	1500/26	1800/17	0100/26	1800/06
MIN.	182.80	182.77	182.77	182.82	182.94	183.01	183.07	183.08	182.84	182.86	182.87	182.82
	2200/21	0700/11	2000/17	0900/05	0900/02	0100/08	1600/25	1200/01	1100/27	1100/18	1100/27	2400/31

* Indicates Less than 90% of the Hourly Data Available.

/ Indicates No Data.

ANNUAL MEAN: 183.00

Monthly Water Level Stages - Lake Ontario at Oswego

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Meters above
IGLD (1955)
Chart Datum 74.0

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1946	1952	1952	1973	1952	1952	1947	1947	1947	1945	1945	1945
HIGH	75.01	75.12	75.22	75.50	75.58	75.61	75.51	75.42	75.26	75.08	75.04	75.04
MEAN	74.38	74.40	74.49	74.69	74.82	74.85	74.83	74.72	74.59	74.48	74.40	74.37
	1935	1936	1935	1935	1935	1935	1934	1934	1934	1934	1934	1934
LOW	73.66	73.64	73.79	73.88	73.97	74.04	73.99	73.84	73.74	73.68	73.59	73.60

1900 thru 1981 mean 74.59

Monthly Water Level Stages - Lake Erie at Cleveland

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Meters above
IGLD (1955)
Chart Datum 173.3

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1973	1973	1973	1973	1973	1973	1973	1973	1973	1973	1972	1972
HIGH	174.46	174.51	174.61	174.74	174.73	174.81	174.75	174.66	174.50	174.39	174.40	174.45
MEAN	173.69	173.68	173.76	173.93	174.02	174.06	174.05	173.99	173.90	173.80	173.72	173.70
	1935	1936	1934	1934	1934	1934	1934	1934	1934	1934	1934	1934
LOW	173.01	172.97	173.02	173.19	173.26	173.27	173.27	173.24	173.20	173.11	173.00	172.98

1900 thru 1981 mean 173.85

Monthly Water Level Stages - Lake St. Clair at St. Clair Shores

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Meters above
IGLD (1955)
Chart Datum 174.2

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1974	1974	1973	1973	1974	1973	1973	1973	1973	1973	1972	1972
HIGH	175.37	175.38	175.49	175.54	175.58	175.63	175.63	175.57	175.47	175.37	175.31	175.32
MEAN	174.54	174.46	174.59	174.77	174.86	174.91	174.93	174.90	174.83	174.75	174.65	174.66
	1936	1926	1934	1901	1934	1934	1934	1934	1934	1934	1934	1925
LOW	173.69	173.70	173.86	174.07	174.24	174.27	174.31	174.22	174.15	174.08	173.99	174.06

1900 thru 1981 mean 174.74

Monthly Water Level Stages - Lake Huron-Michigan at Harbor Beach

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Meters above
IGLD (1955)
Chart Datum 175.8

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1973	1952	1973	1973	1973	1973	1974	1973	1952	1973	1973	1973
HIGH	176.76	176.76	176.78	176.88	176.97	177.06	177.10	177.09	177.02	176.92	176.84	176.77
MEAN	176.11	176.10	176.12	176.20	176.29	176.36	176.40	176.39	176.34	176.27	176.21	176.16
	1965	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964
LOW	175.38	175.39	175.37	175.37	175.50	175.53	175.55	175.56	175.55	175.49	175.43	175.38

1900 thru 1981 mean 176.25

Monthly Water Level Stages - Lake Superior at Marquette

1900 thru Dec 1981

NOAA/NOS
WSC-1 C234
Great Lakes Water Levels
Rockville, Maryland 20852

Levels in Meters above IGLD (1955)
Chart Datum 182.9

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1975	1975	1975	1951	1951	1951	1950	1950	1916	1951	1974	1974
HIGH	183.29	183.24	183.18	183.23	183.35	183.38	183.46	183.50	183.47	183.47	183.43	183.35
MEAN	182.99	182.92	182.88	182.90	183.00	183.09	183.15	183.19	183.19	183.17	183.13	183.06
	1926	1926	1926	1926	1926	1926	1926	1926	1926	1925	1925	1925
LOW	182.45	182.38	182.37	182.34	182.36	182.46	182.57	182.62	182.72	182.72	182.63	182.56

1900 thru 1981 mean 183.06

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