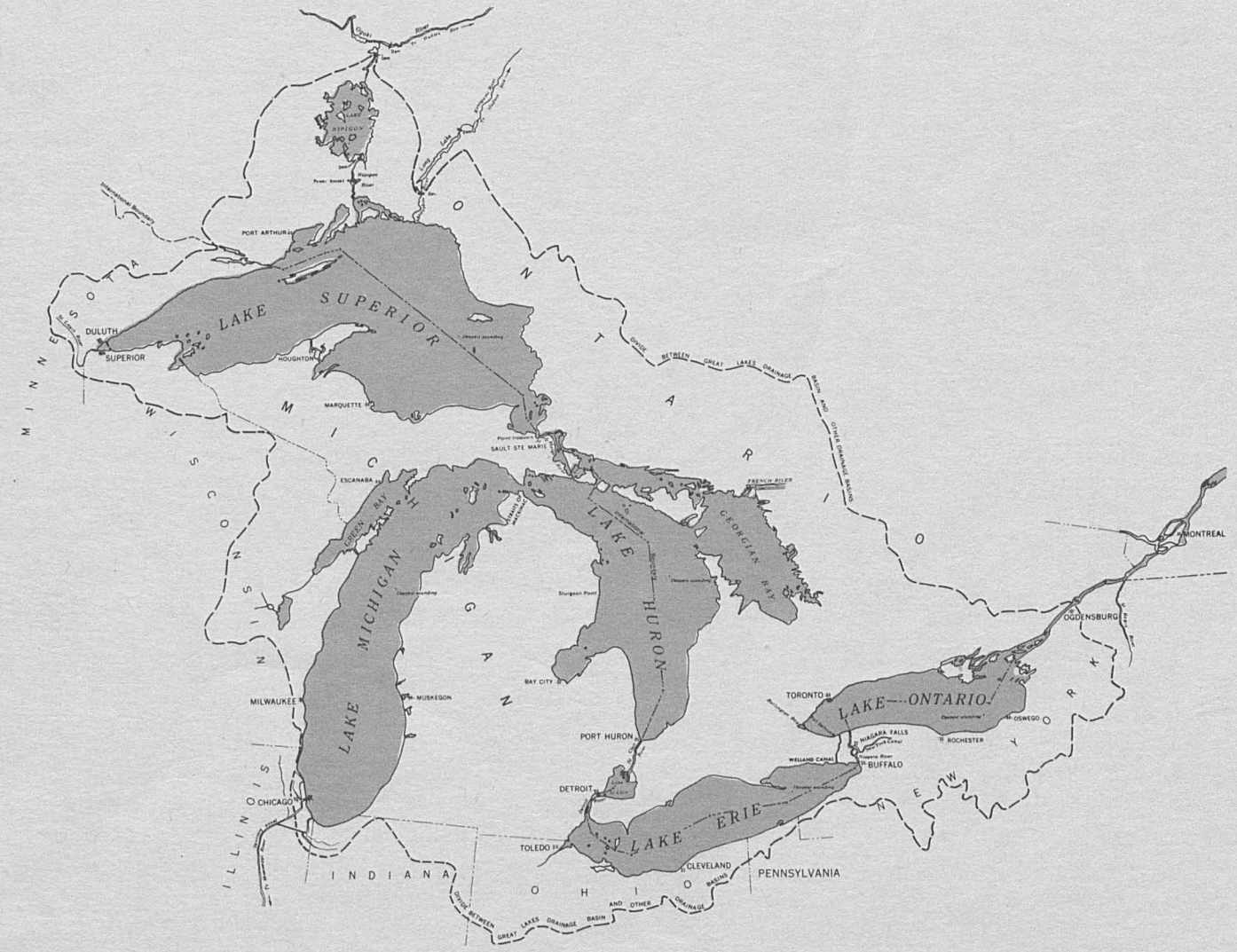
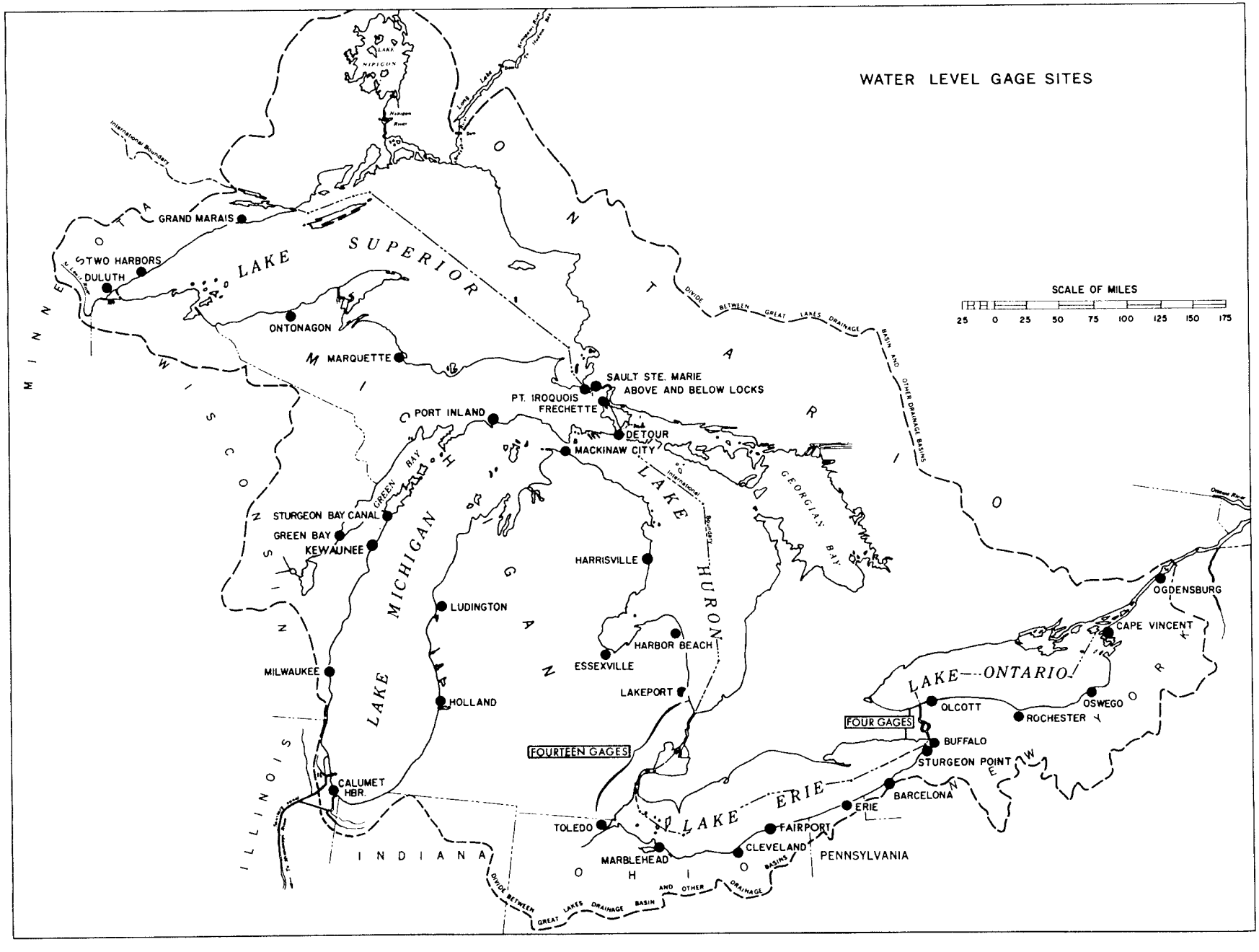
Great Lakes Water Levels, 1978

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
MINNESOTA
WISCONSIN
MICHIGAN
ONTARIO
ILLINOIS
INDIANA
OHIO
PENNSYLVANIA
NEW YORK
GRAND MARAIS
TWO HARBORS
DULUTH
ONTONAGON
MARQUETTE
SAULT STE. MARIE
ABOVE AND BELOW LOCKS
PT. IROQUOIS
FRECHETTE
DETOUR
MACKINAW CITY
PORT INLAND
STURGEON BAY CANAL
GREEN BAY
KEWAUNEE
HARRISVILLE
LUDINGTON
HARBOR BEACH
ESSEXVILLE
LAKEPORT
MILWAUKEE
HOLLAND
CALUMET HBR.
TOLEDO
MARBLEHEAD
CLEVELAND
FAIRPORT
ERIE
BARCELONA
STURGEON POINT
BUFFALO
OLCOTT
ROCHESTER
OSWEGO
CAPE VINCENT
OGDENSBURG
FOURTEEN GAGES
FOUR GAGES
DIVIDE BETWEEN GREAT LAKES DRAINAGE BASIN AND OTHER DRAINAGE BASINS
International Boundary

GREAT LAKES WATER LEVELS

1978

Daily and Monthly Average Water Surface Elevations

INTRODUCTION

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, and a frequency distribution of daily average levels showing the number of times each month the recorded levels were at, or above, specific elevations. 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 Lakes Water Levels, 1860-1975). 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 the National Ocean Survey, C234, 6001 Executive Boulevard, Rockville, Maryland 20851.

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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	113
2000 Cape Vincent, New York	44 07 45	76 20 15	3	115
LAKE ONTARIO (CHART DATUM 242.8)				
2030 OSWEGO, NEW YORK	43 27 51	76 30 42	5	117
2058 Rochester, New York	43 16 10	77 37 34	7	119
2076 Olcott, New York	43 20 17	78 43 39	9	121
NIAGARA RIVER				
3007 Ashland Avenue, Niagara Falls, New York	43 06 00	79 03 35	11	123
3009 American Falls, Niagara Falls, New York	43 04 54	79 03 42	13	125
3012 Niagara Intake, Niagara Falls, New York	43 04 40	79 00 55	15	127
3117 Ontario Street, Buffalo, New York	42 56 35	78 54 37	17	129
LAKE ERIE (CHART DATUM 568.6)				
3020 Buffalo, New York	42 52 39	78 53 27	19	131
3028 Sturgeon Point, New York	42 41 27	79 02 52	21	133
3032 Barcelona, New York	42 20 35	79 35 50	23	135
3038 Erie, Pennsylvania	42 09 15	80 04 32	25	137
3053 Fairport, Ohio	41 45 00	81 17 00	27	139
3063 CLEVELAND, OHIO	41 32 27	81 38 08	29	141
3079 Marblehead, Ohio	41 32 40	82 43 53	31	143
3085 Toledo, Ohio	41 41 36	83 28 20	33	145
3087 Monroe, Michigan	41 53 54	83 21 42	35	147
3090 Fermi Power Plant, Stony Point, Michigan	41 57 35	83 15 30	37	149
DETROIT RIVER				
4020 Gibraltar, Michigan	42 05 30	83 11 10	39	151
4030 Wyandotte, Michigan	42 12 12	83 08 50	41	153
4036 Fort Wayne, Detroit, Michigan	42 17 53	83 05 34	43	155
4049 Windmill Point, Detroit, Michigan	42 21 26	82 55 45	45	157

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
LAKE ST. CLAIR (CHART DATUM 571.7)									
4052	ST. CLAIR SHORES, MICHIGAN	42	28	24	82	52	45	47	159
ST. CLAIR RIVER									
4070	Algonac, Michigan	42	37	15	82	31	37	49	161
4080	St. Clair S.P., St. Clair, Michigan	42	48	45	82	29	09	51	163
4084	Marysville, Michigan	42	54	22	82	27	58	53	165
4087	Dry Dock, Port Huron, Michigan	42	56	43	82	26	37	55	167
4090	Mouth of the Black River, Port Huron, MI	42	58	25	82	25	16	57	169
4096	Dunn Paper Company, Port Huron, Michigan	43	00	12	82	25	20	59	171
4098	Fort Gratiot, Port Huron, Michigan	43	00	23	82	25	21	61	173
LAKE HURON (CHART DATUM 576.8)									
5002	Lakeport, Michigan	43	08	30	82	29	35	63	175
5014	HARBOR BEACH, MICHIGAN	43	50	45	82	38	38	65	177
5034	Essexville, Michigan	43	38	29	83	50	48	67	179
5035	Essexville, Michigan	43	38	29	83	50	48	69	181
5059	Harrisville, Michigan	44	39	34	83	17	11	71	183
5080	Mackinaw City, Michigan	45	46	40	84	43	10	73	185
5098	DeTour, Michigan	46	01	00	83	55	15	75	187
5099	DeTour Village, Michigan	45	59	30	83	54	00	77	189
ST. MARY'S RIVER									
6050	Frechette Point, Michigan	46	27	40	84	17	10	79	191
6060	U.S. Slip below locks, Sault Ste. Marie, MI	46	30	03	84	20	24	81	193
6070	S.W. Pier above locks, Sault Ste. Marie, MI	46	30	05	84	22	21	83	195
LAKE MICHIGAN (CHART DATUM 576.8)									
7023	Ludington, Michigan	43	56	48	86	26	30	85	197
7031	Holland, Michigan	42	46	05	86	12	06	87	199
7044	Calumet Harbor, S. Chicago, Illinois	41	43	48	87	32	18	89	201
7057	Milwaukee, Wisconsin	43	00	05	87	53	13	91	203
7068	Kewaunee, Wisconsin	44	27	48	87	30	00	93	205
7072	Sturgeon Bay Canal, Wisconsin	44	47	40	87	18	48	95	207
7078	Green Bay, Wisconsin	44	32	27	88	00	30	97	209
7096	Port Inland, Michigan	45	58	10	85	52	20	99	211

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STATION NUMBER AND LOCATION		LATITUDE NORTH	LONGITUDE WEST	PAGE FEET	PAGE METERS
LAKE SUPERIOR (CHART DATUM 600.0)					
9004	POINT IROQUOIS, MICHIGAN	46 29 06	84 37 52	101	213
9016	Marquette, Michigan	46 32 29	87 23 26	103	215
9044	Ontonagon, Michigan	46 52 40	89 19 15	105	217
9064	Duluth, Minnesota	46 46 32	92 05 34	107	219
9070	Two Harbors, Minnesota	47 01 03	91 40 30	109	221
9090	Grand Marais, Minnesota	47 44 53	90 20 30	111	223

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST

Monthly mean elevation:	245.52	May
Daily mean elevation:	245.80	23 Apr
Instant/hourly Elevation:	245.97	1900/11 Apr

LOWEST

Monthly mean elevation:	242.93	Nov
Daily mean elevation:	242.38	27 Nov
Instant/hourly Elevation:	242.04	2000/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
245.47	9 Jan
245.03	1 Feb
244.60	29 Mar
245.80	23 Apr
245.76	10 May
245.48	3 Jun
244.97	1 Jul
244.55	9 Aug
244.00	6 Sep
243.62	7 Oct
243.51	18 Nov
243.54	13 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
244.18	6 Jan
244.26	28 Feb
243.82	13 Mar
244.58	3 Apr
245.22	15 May
245.00	30 Jun
244.37	30 Jul
243.86	27 Aug
243.22	18 Sep
243.01	29 Oct
242.38	27 Nov
242.55	3 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				10	8								245.60	18
245.40	2			7	19	10							245.40	56
245.20	2			6	4	13							245.20	81
245.00	9	1		2		6							245.00	99
244.80	10	8		2		1	13						244.80	133
244.60	4	10		2			12						244.60	161
244.40	1	5	4	1			4	7					244.40	183
244.20	2	4	7				2	15					244.20	213
244.00	1		10					4					244.00	228
243.80			10					5	7				243.80	250
243.60									7	1			243.60	258
243.40									13	7	1	5	243.40	284
243.20									3	14	3	7	243.20	311
243.00										9	9	11	243.00	340
242.80											7	5	242.80	352
242.60											8	2	242.60	362
242.40											1	1	242.40	364
242.20											1		242.20	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	244.23	245.03	244.20	244.72	245.69	245.42	244.97	244.49	243.91	243.60	243.02	243.02
2	244.61	244.89	244.26	244.74	245.66	245.48	244.86	244.39	243.99	243.39	243.26	242.90
3	244.81	244.88	244.11	244.58	245.59	245.48	244.80	244.49	243.96	243.25	243.01	242.55
4	244.68	244.86	244.27	244.83	245.46	245.42	244.84	244.49	243.93	243.47	243.01	243.28
5	244.54	244.77	244.22	245.14	245.43	245.45	244.91	244.41	243.81	243.37	242.95	243.31
6	244.18	244.74	244.16	244.98	245.48	245.42	244.89	244.39	244.00	243.53	243.07	243.11
7	244.26	244.69	244.08	245.24	245.54	245.33	244.86	244.30	243.72	243.62	242.91	242.75
8	244.85	244.81	243.97	245.32	245.47	245.38	244.87	244.45	243.69	243.42	242.95	242.87
9	245.47	244.88	243.97	245.28	245.66	245.39	244.89	244.55	243.57	243.51	243.14	242.88
10	245.46	244.82	243.93	245.18	245.76	245.33	244.95	244.38	243.55	243.52	242.80	243.01
11	245.40	244.88	243.92	245.33	245.56	245.41	244.82	244.29	243.72	243.33	242.89	243.08
12	245.07	244.90	243.88	245.57	245.48	245.39	244.90	244.30	243.48	243.48	242.50	243.16
13	244.84	244.72	243.82	245.69	245.42	245.44	244.81	244.34	243.39	243.30	242.68	243.54
14	244.68	244.66	243.84	245.77	245.30	245.44	244.74	244.30	243.52	243.07	243.28	243.32
15	245.16	244.68	244.02	245.65	245.22	245.41	244.73	244.24	243.92	243.21	243.01	243.48
16	245.12	244.63	243.90	245.57	245.32	245.27	244.70	244.35	243.70	243.08	242.79	243.16
17	244.90	244.67	243.92	245.54	245.40	245.26	244.62	244.52	243.45	243.16	242.80	243.37
18	244.88	244.64	244.04	245.41	245.54	245.35	244.64	244.28	243.22	243.29	243.51	243.16
19	244.94	244.63	244.15	245.24	245.64	245.28	244.63	244.29	243.34	243.20	243.20	243.21
20	244.61	244.56	243.92	245.33	245.66	245.30	244.64	244.24	243.56	243.20	242.74	242.76
21	244.99	244.53	244.08	245.71	245.62	245.16	244.60	244.18	243.64	243.29	242.69	243.46
22	245.09	244.58	244.29	245.74	245.66	245.34	244.61	244.23	243.48	243.31	242.70	243.33
23	245.09	244.57	244.33	245.80	245.54	245.26	244.75	244.16	243.51	243.13	242.82	243.46
24	245.00	244.50	244.30	245.76	245.51	245.22	244.58	243.86	243.62	243.09	243.06	243.10
25	244.84	244.31	244.16	245.62	245.54	245.14	244.55	243.91	243.46	243.26	242.84	243.14
26	244.91	244.38	244.10	245.58	245.53	245.06	244.64	244.07	243.46	243.30	242.73	243.49
27	245.33	244.35	244.34	245.57	245.50	245.14	244.81	243.86	243.62	243.23	242.38	243.33
28	245.10	244.26	244.58	245.60	245.50	245.14	244.64	244.00	243.45	243.28	242.84	243.16
29	245.09		244.60	245.63	245.47	245.13	244.55	244.24	243.42	243.01	243.01	242.98
30	245.06		244.53	245.65	245.43	245.00	244.37	244.08	243.46	243.10	243.29	242.96
31	245.01		244.54		245.51		244.38	243.90		243.25		243.16
MEAN	244.91	244.67	244.14	245.39	245.52	245.31	244.73	244.26	243.62	243.30	242.93	243.14
MAX.	245.79	245.09	244.69	245.97	245.84	245.66	245.23	244.69	244.25	243.84	244.09	244.24
	2300/09	0700/01	1400/29	1900/11	1600/10	1600/09	1500/10	1300/09	1400/06	0800/07	1000/18	1600/04
MIN.	243.96	244.21	243.63	244.24	245.13	244.91	244.26	243.67	242.97	242.93	242.04	242.34
	1800/01	2400/28	0700/14	0400/01	1400/15	1800/30	0900/30	0100/28	1900/18	0400/30	2000/27	1500/03

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

/ Indicates No Data.

ANNUAL MEAN: 244.33

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	246.54	May
Daily mean elevation:	246.66	21 May
Instant/hourly Elevation:	246.82	2000/20 May

LOWEST		
Monthly mean elevation:	243.50	Dec
Daily mean elevation:	243.26	27 Nov
Instant/hourly Elevation:	243.08	1100/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
246.07	11 Feb
245.68	29 Mar
246.62	30 Apr
246.66	21 May
246.48	3 Jun
246.03	1 Jul
245.39	3 Aug
244.86	2 Sep
244.36	1 Oct
243.85	18 Nov
243.74	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
245.63	28 Feb
245.23	20 Mar
245.63	3 Apr
246.44	8 May
246.07	30 Jun
245.37	31 Jul
244.86	31 Aug
244.29	29 Sep
243.80	29 Oct
243.26	27 Nov
243.32	3 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.
246.60				3	3								246.60	6
246.40				8	28	7							246.40	49
246.20				6		15							246.20	70
246.00		3		6		8	1						246.00	88
245.80		17		2			10						245.80	117
245.60		4	6	5			6						245.60	138
245.40			10				12						245.40	160
245.20			15				2	16					245.20	193
245.00								10					245.00	203
244.80								5	5				244.80	213
244.60									5				244.60	218
244.40									14				244.40	232
244.20									6	9			244.20	247
244.00										6			244.00	253
243.80										15	2		243.80	270
243.60										1	13	2	243.60	286
243.40											13	3	243.40	302
243.20											2	2	243.20	306
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	245.62	245.79	246.60	246.46	246.03	245.38	244.86	244.36	243.80	243.53
2	/	/	245.63	245.70	246.59	246.46	245.95	245.32	244.86	244.23	243.85	243.41
3	/	/	245.51	245.63	246.56	246.48	245.90	245.39	244.84	244.17	243.74	243.32
4	/	/	245.68	245.75	246.47	246.41	245.94	245.37	244.82	244.33	243.75	243.74
5	/	245.89*	245.58	245.90	246.48	246.47	245.94	245.30	244.74	244.23	243.72	243.65
6	/	245.86	245.54	245.75	246.49	246.38	245.89	245.28	244.82	244.32	243.74	243.52
7	/	245.83	245.46	246.04	246.50	246.36	245.86	245.24	244.67	244.31	243.67	243.36*
8	/	245.96	245.39	246.03	246.44	246.40	245.86	245.29	244.66	244.22	243.71	/
9	/	246.01	245.39	246.02	246.57	246.43	245.84	245.32	244.57	244.24	243.73	/
10	/	245.97	245.37	245.93	246.62	246.34	245.89	245.26	244.55	244.22	243.59	/
11	/	246.07	245.34	246.14	246.51	246.34	245.82	245.22	244.61	244.14	243.64	/
12	/	246.06	245.33	246.18	246.49	246.33	245.80	245.24	244.50	244.19	243.45	/
13	/	245.90	245.26	246.27	246.45	246.43	245.76	245.23	244.44	244.13	243.58	/
14	/	245.90	245.34	246.32	246.45	246.39	245.74	245.19	244.54	244.00	243.78	/
15	/	245.90	245.38	246.61	246.47	246.35	245.71	245.19	244.66	244.04	243.56	/
16	/	245.88	245.27	246.29	246.53	246.24	245.68	245.25	244.55	243.95	243.51	/
17	/	245.93	245.31	246.31	246.54	246.25	245.65	245.29	244.41	243.99	243.62	/
18	/	245.91	245.36	246.23	246.59	246.27	245.59	245.17	244.31	244.05	243.85	/
19	/	245.87	245.47	246.20	246.60	246.24*	245.56	245.22	244.47	243.96	243.69	/
20	/	245.81	245.23	246.38	246.60	246.24	245.56	245.19	244.51	243.98	243.46	/
21	/	245.82	245.40	246.53	246.66	246.20	245.55	245.15	244.52	243.97	243.43	/
22	/	245.88	245.42	246.53	246.61	246.25	245.53	245.15	244.44	243.97	243.41	/
23	/	245.85	245.48	246.54	246.56	246.23	245.58	245.10	244.44	243.88	243.58	/
24	/	245.82	245.49	246.55	246.55	246.18	245.50	244.98	244.48	243.87	243.58	/
25	/	245.68	245.37	246.53	246.57	246.10	245.48	245.01	244.38	243.96	243.46	/
26	/	245.75	245.36	246.55	246.55	246.09	245.52	245.02	244.38	244.00	243.37	/
27	/	245.70	245.56	246.56	246.52	246.11	245.58	244.86	244.43	243.94	243.26	/
28	/	245.63	245.63	246.61	246.52	246.14	245.52	244.99	244.37	243.95	243.53	/
29	/		245.68	246.60	246.50	246.12	245.47	245.02	244.29	243.80	243.59	/
30	/		245.64	246.62	246.48	246.07	245.38	244.92	244.34	243.87	243.64	/
31	/		245.60		246.53		245.37	244.86		243.87		/
MEAN	/	245.87	245.45	246.24	246.54	246.29	245.69	245.17	244.55	244.07	243.61	243.50
MAX.		246.17	245.85	246.73	246.82	246.65	246.07	245.52	244.98	244.59	244.27	244.30
		2300/11	1900/04	1400/30	2000/20	1900/12	1500/10	2000/19	2400/14	0400/04	1000/18	1300/04
MIN.		245.56	245.05	245.44	246.34	246.00	245.27	244.76	244.05	243.70	243.08	243.15
		0500/07	1000/14	0100/01	2400/04	2100/25	0100/31	2300/27	1600/18	1200/23	1100/27	1200/03

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

ANNUAL MEAN: 245.18

ANNUAL SUMMARY OF LEVELS, 1978
Station 2030: Oswego, New York on Lake Ontario

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	246.58	May	Monthly mean elevation:	243.70	Nov
Daily mean elevation:	246.72	1 May	Daily mean elevation:	243.43	3 Dec
Instant/hourly Elevation:	246.84	0500/21 May	Instant/hourly Elevation:	243.16	1500/23 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
246.24	27 Jan
246.21	1 Feb
245.75	4 Mar
246.71	30 Apr
246.72	1 May
246.48	3 Jun
246.08	1 Jul
245.38	4 Aug
244.93	1 Sep
244.46	7 Oct
243.90	1 Nov
243.99	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
245.45	8 Jan
245.71	28 Feb
245.32	14 Mar
245.74	3 Apr
246.47	8 May
246.10	26 Jun
245.35	31 Jul
244.87	28 Aug
244.30	30 Sep
243.89	30 Oct
243.44	23 Nov
243.43	3 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.
246.60				6	11								246.60	17
246.40				5	20	9							246.40	51
246.20	2	1		7		14							246.20	75
246.00	6	13		6		7	1						246.00	108
245.80	14	11		3			11						245.80	147
245.60	3	3	11	3			7						245.60	174
245.40	6		11				11						245.40	202
245.20			9				1	18					245.20	230
245.00								9					245.00	239
244.80								4	6				244.80	249
244.60									4				244.60	253
244.40									18	2			244.40	273
244.20									2	10			244.20	285
244.00										13			244.00	298
243.80										6	8	8	243.80	320
243.60											15	17	243.60	352
243.40											7	6	243.40	365
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 2030: Oswego, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	245.50	246.21	245.72	245.78	246.72	246.48	246.08	245.34	244.93	244.41	243.90	243.55
2	245.74	246.11	245.70	245.87	246.65	246.47	246.00	245.31	244.89	244.37	243.89	243.62
3	245.76	246.09	245.62	245.74	246.63	246.48	245.93	245.36	244.87	244.27	243.85	243.43
4	245.56	246.08	245.75	245.79	246.58	246.42	245.92	245.38	244.83	244.31	243.83	243.66
5	245.55	246.03	245.68	245.94	246.54	246.46	245.90	245.31	244.83	244.29	243.81	243.65
6	245.51	246.10	245.62	245.86	246.57	246.38	245.87	245.31	244.82	244.30	243.84	243.60
7	245.46	246.17	245.54	246.06	246.56	246.37	245.84	245.28	244.78	244.46	243.84	243.54
8	245.45	246.07	245.47	246.15	246.47	246.41	245.83	245.27	244.75	244.39	243.78	243.68
9	246.06	246.10	245.46	246.10	246.57	246.44	245.82	245.32	244.70	244.29	243.76	243.69
10	246.11	246.07	245.44	246.05	246.61	246.36	245.87	245.35	244.55	244.26	243.75	243.80
11	246.03	246.16	245.39	246.11	246.55	246.33	245.86	245.29	244.60	244.19	243.74	243.66
12	245.84	246.19	245.39	246.20	246.55	246.30	245.82	245.27	244.63	244.18	243.70	243.63
13	245.76	246.02	245.33	246.26	246.48	246.45	245.73	245.24	244.53	244.22	243.57	243.71
14	245.88	246.02	245.32	246.34	246.55	246.43	245.73	245.19	244.42	244.26	243.69	243.81
15	245.95	245.99	245.44	246.37	246.59	246.36	245.68	245.14	244.53	244.19	243.72	243.65
16	245.97	245.96	245.39	246.34	246.64	246.27	245.69	245.18	244.56	244.15	243.66	243.61
17	245.82	245.99	245.39	246.34	246.62	246.21	245.68	245.29	244.51	244.07	243.45	243.99
18	245.93	245.97	245.40	246.32	246.64	246.23	245.62	245.23	244.54	244.06	243.83	243.81
19	245.86	245.96	245.51	246.32	246.63	246.26	245.58	245.21	244.59	244.07	243.76	243.75
20	245.83	245.89	245.33	246.50	246.61	246.23	245.56	245.31	244.54	244.05	243.67	243.52
21	245.98	245.90	245.37	246.60	246.68	246.22	245.57	245.21	244.55	244.02	243.60	243.89
22	245.98	245.95	245.48	246.60	246.63	246.22	245.56	245.16	244.57	244.00	243.55	243.66
23	245.96	245.91	245.52	246.58	246.60	246.22	245.61	245.11	244.50	244.10	243.44	243.76
24	245.86	245.87	245.57	246.60	246.60	246.19	245.55	245.09	244.53	244.00	243.71	243.59
25	245.88	245.78	245.49	246.63	246.60	246.16	245.48	245.06	244.55	243.94	243.74	243.93
26	245.98	245.81	245.48	246.63	246.58	246.10	245.48	245.02	244.45	244.05	243.61	243.88
27	246.24	245.79	245.63	246.65	246.56	246.12	245.49	244.94	244.44	244.02	243.45	243.95
28	246.20	245.71	245.64	246.67	246.53	246.14	245.55	244.87	244.52	244.02	243.66	243.86
29	246.20		245.72	246.68	246.52	246.12	245.52	245.02	244.40	243.96	243.53	243.75
30	246.21		245.70	246.71	246.50	246.13	245.47	244.96	244.30	243.89	243.71	243.69
31	246.18		245.66		246.52		245.35	244.93		243.92		243.70
MEAN	245.88	246.00	245.52	246.29	246.58	246.30	245.70	245.19	244.61	244.15	243.70	243.71
MAX.	246.50	246.31	245.91	246.76	246.84	246.61	246.17	245.56	245.08	244.55	244.10	244.27
	1900/27	0700/07	2100/04	2000/30	0500/21	0500/03	0500/01	0100/20	1600/07	0400/07	1100/02	0900/17
MIN.	245.25	245.67	245.07	245.47	246.34	245.94	245.09	244.74	244.21	243.73	243.16	243.22
	0500/08	2300/28	0600/14	0500/01	1600/08	0600/26	0500/27	1200/28	1300/30	0600/30	1500/23	1800/03

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

/ Indicates No Data.

ANNUAL MEAN: 245.30

ANNUAL SUMMARY OF LEVELS, 1978
Station 2058: Rochester, New York on Lake Ontario

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	246.64	May
Daily mean elevation:	246.72	30 Apr
Instant/hourly Elevation:	246.85	1000/21 May

LOWEST		
Monthly mean elevation:	243.71	Dec
Daily mean elevation:	243.53	23 Nov
Instant/hourly Elevation:	243.21	2100/7 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
246.20	30 Jan
246.21	7 Feb
245.74	1 Mar
246.72	30 Apr
246.71	17 May
246.53	2 Jun
246.09	1 Jul
245.40	4 Aug
244.95	1 Sep
244.46	7 Oct
243.96	1 Nov
243.89	28 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
245.52	8 Jan
245.75	28 Feb
245.35	14 Mar
245.74	1 Apr
246.54	31 May
246.13	26 Jun
245.40	31 Jul
244.93	28 Aug
244.35	30 Sep
243.94	31 Oct
243.53	23 Nov
243.58	3 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.
246.60				9	24								246.60	33
246.40				3	7	12							246.40	55
246.20		1		7		12							246.20	75
246.00	7	14		5		6	2						246.00	109
245.80	15	11		5			10						245.80	150
245.60	3	2	10	1			10						245.60	176
245.40	6		18				8						245.40	208
245.20			3				1	19					245.20	231
245.00								8					245.00	239
244.80								4	7				244.80	250
244.60									12				244.60	262
244.40									10	4			244.40	276
244.20									1	10			244.20	287
244.00										14			244.00	301
243.80										3	9	6	243.80	319
243.60											17	21	243.60	357
243.40											4	4	243.40	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 2058: Rochester, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	245.60	246.12	245.74	245.74	246.71	246.53	246.09	245.35	244.95	244.43	243.96	243.59
2	245.61	246.15	245.70	245.85	246.69	246.53	246.05	245.33	244.90	244.44	243.89	243.64
3	245.62	246.16	245.68	245.83	246.67	246.49	245.95	245.37	244.92	244.38	243.91	243.58
4	245.60	246.15	245.70	245.88	246.64	246.48	245.92	245.40	244.89	244.36	243.88	243.60
5	245.59	246.14	245.64	245.92	246.62	246.46	245.92	245.38	244.87	244.36	243.88	243.60
6	245.58	246.19	245.60	245.97	246.62	246.45	245.89	245.32	244.83	244.39	243.87	243.64
7	245.55	246.21	245.59	246.03	246.61	246.44	245.87	245.33	244.90	244.46	243.87	243.63
8	245.52	246.09	245.53	246.11	246.56	246.47	245.86	245.30	244.75	244.44	243.82	243.68
9	245.72	246.08	245.47	246.13	246.60	246.47	245.92	245.34	244.69	244.32	243.79	243.69
10	245.91	246.09	245.47	246.12	246.65	246.42	245.90	245.36	244.59	244.29	243.81	243.72
11	245.82	246.09	245.42	246.17	246.64	246.38	245.89	245.33	244.60	244.27	243.78	243.67
12	245.84	246.08	245.42	246.21	246.62	246.36	245.85	245.27	244.74	244.20	243.80	243.64
13	245.88	246.09	245.41	246.27	246.63	246.48	245.78	245.22	244.64	244.28	243.67	243.62
14	246.04	246.04	245.35	246.34	246.68	246.43	245.76	245.21	244.55	244.26	243.67	243.69
15	245.87	246.01	245.44	246.37	246.70	246.36	245.73	245.20	244.57	244.24	243.73	243.65
16	245.89	245.97	245.45	246.38	246.67	246.34	245.76	245.17	244.62	244.19	243.71	243.66
17	245.93	245.96	245.41	246.38	246.71	246.31	245.71	245.28	244.63	244.13	243.57	243.80
18	246.00	245.94	245.39	246.40	246.69	246.28	245.66	245.31	244.62	244.08	243.68	243.78
19	245.95	245.94	245.40	246.41	246.67	246.30	245.61	245.21	244.61	244.12	243.71	243.72
20	246.06	245.91	245.43	246.50	246.66	246.28	245.60	245.31	244.60	244.10	243.72	243.66
21	245.96	245.90	245.42	246.59	246.70	246.25	245.61	245.23	244.59	244.09	243.67	243.70
22	245.93	245.91	245.49	246.62	246.68	246.25	245.62	245.15	244.69	244.07	243.60	243.74
23	245.93	245.85	245.53	246.64	246.67	246.26	245.59	245.12	244.64	244.15	243.53	243.74
24	245.96	245.82	245.58	246.65	246.66	246.21	245.62	245.13	244.61	244.10	243.66	243.72
25	246.00	245.84	245.56	246.67	246.65	246.18	245.52	245.09	244.64	243.99	243.74	243.82
26	245.97	245.81	245.59	246.69	246.63	246.13	245.45	245.05	244.53	244.06	243.67	243.82
27	246.04	245.78	245.62	246.70	246.60	246.15	245.47	245.02	244.48	244.06	243.61	243.87
28	246.18	245.75	245.65	246.69	246.60	246.16	245.60	244.93	244.56	244.04	243.62	243.89
29	246.20		245.69	246.72	246.57	246.16	245.52	244.97	244.48	244.04	243.57	243.83
30	246.20		245.72	246.72	246.56	246.14	245.52	245.00	244.35	243.94	243.61	243.79
31	246.13		245.72		246.54		245.40	245.00		243.94		243.82
MEAN	245.87	246.00	245.54	246.32	246.64	246.34	245.73	245.22	244.67	244.20	243.73	243.71
MAX.	246.28	246.38	245.84	246.79	246.85	246.69	246.17	245.57	245.16	244.56	244.05	244.01
	0700/14	2400/06	2200/31	0700/30	1000/21	0100/03	0800/01	0100/04	1000/07	2000/07	0400/01	2100/08
MIN.	245.44	245.66	245.24	245.56	246.34	245.99	245.22	244.85	244.21	243.74	243.38	243.21
	1100/08	2000/28	1700/14	1000/01	1000/09	1800/12	0100/27	0900/29	2400/30	0300/26	1600/27	2100/07

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

ANNUAL MEAN: 245.33

ANNUAL SUMMARY OF LEVELS, 1978
Station 2076: Olcott, New York on Lake Ontario

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST

Monthly mean elevation:	246.68	May
Daily mean elevation:	246.78	14 May
Instant/hourly Elevation:	246.89	2200/20 May

LOWEST

Monthly mean elevation:	243.69	Dec
Daily mean elevation:	243.51	4 Dec
Instant/hourly Elevation:	243.06	1300/4 Dec

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
246.16	28 Jan
246.22	5 Feb
245.81	31 Mar
246.72	29 Apr
246.78	14 May
246.58	1 Jun
246.07	2 Jul
245.55	1 Aug
244.99	1 Sep
244.48	2 Oct
243.93	4 Nov
243.91	31 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
245.56	3 Jan
245.77	27 Feb
245.33	19 Mar
245.75	1 Apr
246.58	31 May
246.12	30 Jun
245.52	30 Jul
245.00	31 Aug
244.47	30 Sep
243.93	31 Oct
243.53	30 Nov
243.51	4 Dec

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

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
246.60				9	30							
246.40				4	1	14						
246.20		1		8		13						
246.00	9	15		3		3	3					
245.80	11	7	1	5			10					
245.60	7	5	10	1			11					
245.40	4		18				7	4				
245.20			2					16				
245.00								10				
244.80								1	7			
244.60									19			
244.40									4	5		
244.20										10		
244.00										14		
243.80										2	10	5
243.60											17	16
243.40											3	10

Elev. (ft.)	No. of days above elev.
246.60	39
246.40	58
246.20	80
246.00	113
245.80	147
245.60	181
245.40	214
245.20	232
245.00	242
244.80	250
244.60	269
244.40	278
244.20	288
244.00	302
243.80	319
243.60	352
243.40	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 2076: Olcott, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	245.72	246.10	245.75	245.75	246.66	246.58	246.07	245.55	244.99	244.47	243.93	243.60
2	245.56	246.19	245.69	245.84	246.65	246.57	246.07	245.52	244.94	244.48	243.87	243.60
3	245.56	246.20	245.76	245.96	246.68	246.52	246.04	245.48	244.95	244.45	243.93	243.71
4	245.60	246.19	245.60	245.92	246.69	246.52	246.00	245.40	244.87	244.40	243.93	243.51
5	245.62	246.22	245.61	245.88	246.69	246.47	245.96	245.42	244.89	244.46	243.89	243.54
6	245.67	246.18	245.58	246.06	246.66	246.49	245.98	245.36	244.84	244.42	243.87	243.60
7	245.66	246.16	245.57	246.00	246.66	246.51	245.99	245.34	244.88	244.40	243.87	243.70
8	245.66	246.14	245.56	246.07	246.70	246.50	245.97	245.32	244.74	244.34	243.85	243.64
9	245.59	246.12	245.52	246.16	246.68	246.47	245.92	245.37	244.70	244.29	243.82	243.66
10	245.70	246.13	245.49	246.22	246.64	246.49	245.88	245.35	244.63	244.27	243.84	243.66
11	245.65	246.05	245.47	246.21	246.67	246.47	245.88	245.31	244.66	244.29	243.80	243.66
12	245.86	246.05	245.46	246.27	246.70	246.44*	245.83	245.26	244.80	244.26	243.78	243.64
13	245.99	246.13	245.44	246.30	246.74	246.41*	245.83	245.24	244.75	244.28	243.73	243.53
14	245.97	246.03	245.43	246.31	246.78	246.38	245.79	245.25	244.73	244.25	243.65	243.60
15	245.83	246.04	245.41	246.34	246.76	246.37	245.76	245.25	244.73	244.20	243.70	243.60
16	245.88	246.02	245.47	246.40	246.70	246.42	245.73	245.27	244.80	244.21	243.73	243.69
17	246.04	245.95	245.43	246.40	246.74	246.38	245.67	245.30	244.77	244.14	243.75	243.55
18	246.00	245.94	245.38	246.49	246.70	246.36	245.67	245.25	244.74	244.11	243.57	243.68
19	246.02	245.94	245.33	246.58	246.73	246.32	245.66	245.23	244.66	244.17	243.64	243.66
20	246.11	245.93	245.48	246.51	246.71	246.31	245.65	245.26	244.74	244.13	243.71	243.76
21	245.99	245.91	245.46	246.58	246.67	246.30	245.63	245.20	244.77	244.10	243.67	243.59
22	245.96	245.82	245.48	246.63	246.67	246.27	245.64	245.15	244.79	244.13	243.66	243.71
23	246.00	245.79	245.54	246.65	246.72	246.25	245.64	245.15	244.73	244.07	243.66	243.71
24	246.02	245.79	245.58	246.69	246.65	246.24	245.60	245.19	244.68	244.09	243.62	243.84
25	246.10	245.86	245.68	246.72	246.65	246.23	245.54	245.08	244.65	244.03	243.66	243.75
26	245.97	245.77	245.72	246.72	246.67	246.22	245.56	245.05	244.61	244.06	243.67	243.77
27	245.94	245.77	245.66	246.72	246.68	246.21	245.62	245.09	244.60	244.05	243.74	243.80
28	246.16	245.79	245.69	246.70	246.65	246.16	245.56	245.03	244.55	244.04	243.56	243.85
29	246.13		245.68	246.72	246.61	246.16	245.53	245.07	244.52	244.03	243.65	243.89
30	246.12		245.73	246.68	246.61	246.12	245.52	245.06	244.47	243.97	243.53	243.89
31	246.10		245.81		246.58		245.55	245.00		243.93		243.91
MEAN	245.88	246.01	245.56	246.35	246.68	246.37	245.77	245.25	244.74	244.21	243.74	243.69
MAX.	246.50	246.33	245.95	246.81	246.89	246.75	246.19	245.65	245.10	244.60	244.03	244.02
	0600/26	0100/03	2300/31	0600/26	2200/20	1400/01	0300/01	0100/01	0800/03	1800/03	0300/01	0200/30
MIN.	245.37	245.69	245.16	245.55	246.23	245.99	245.32	244.93	244.36	243.84	243.33	243.06
	0200/03	2200/26	1700/14	2300/01	0700/24	1600/30	2400/30	2100/31	0300/30	1000/31	0600/18	1300/04

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

/ Indicates No Data.

ANNUAL MEAN: 245.35

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	323.66	Jun	Monthly mean elevation:	316.63	Nov
Daily mean elevation:	331.79	10 Jan	Daily mean elevation:	315.34	4 Nov
Instant/hourly Elevation:	338.46	0600/10 Jan	Instant/hourly Elevation:	314.80	0300/18 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
331.79	10 Jan
317.30	24 Feb
320.36	29 Mar
324.38	13 Apr
324.94	31 May
324.70	9 Jun
323.18	4 Jul
323.12	17 Aug
322.42	11 Sep
323.56	6 Oct
322.75	18 Nov
321.87	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
315.88	20 Jan
316.79	18 Feb
316.37	13 Mar
321.52	16 Apr
321.61	6 May
322.29	24 Jun
321.52	21 Jul
321.53	31 Aug
320.58	23 Sep
320.61	30 Oct
315.34	4 Nov
315.37	29 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.
331.00	1												331.00	1
330.00													330.00	1
329.00													329.00	1
328.00													328.00	1
327.00													327.00	1
326.00													326.00	1
325.00													325.00	1
324.00	1			3	9	9							324.00	23
323.00	2			9	13	18	1	1		1			323.00	68
322.00	2			16	6	3	14	8	3		1		322.00	121
321.00	1			2	3		16	22	15	9		4	321.00	193
320.00	3		5						12	21		3	320.00	237
319.00	5		3								1	2	319.00	248
318.00	5		1								3	4	318.00	261
317.00	6	4	4								3	5	317.00	283
316.00	4	24	18								8	4	316.00	341
315.00	1										14	9	315.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	318.61	316.89	316.89	323.42	322.10	324.35	321.75	321.94	321.61	321.11	316.05	316.90
2	321.98	317.14	316.91	322.60	322.68	324.42	322.85	321.69	321.73	321.13	317.13	315.67
3	322.32	316.91	316.79	322.21	322.34	323.67	322.90	321.80	321.73	320.66	316.04	315.63
4	318.63	316.89	316.71	322.41	321.95	324.34	323.18	321.86	321.64	321.70	315.34	320.81
5	319.50	316.88	316.72	322.86	322.04	324.30	322.82	321.61	321.71	321.24	315.35	321.50
6	319.40	317.07	316.73	322.21	321.61	323.61	322.79	321.54	321.65	323.56	316.44	318.11
7	318.19	317.26	316.73	323.75	321.89	323.90	322.81	321.91	321.88	321.85	315.45	315.73
8	319.28	316.86	316.70	322.39	322.05	324.29	321.96	322.34	321.61	320.69	315.88	316.01
9	324.42	316.93	316.68	322.34	322.87	324.70	321.53	322.73	321.65	320.76	317.74	316.06
10	331.79	316.94	316.74	322.89	323.07	323.13	322.14	322.26	321.64	321.18	315.36	318.94
11	323.66	316.84	316.82	323.30	323.14	323.99	321.92	322.16	322.42	320.77	315.36	317.26
12	321.00	316.88	316.86	323.48	324.21	324.68	321.92	322.01	322.36	320.83	315.36	317.95
13	317.21	316.89	316.37	324.38	323.08	324.40	322.14	321.67	321.47	320.74	315.77	320.51
14	317.04	316.92	316.61	323.12	323.32	324.18	322.39	322.00	321.61	320.63	317.96	321.38
15	318.84	316.90	316.84	322.35	323.66	323.87	322.56	321.67	322.25	320.80	316.10	321.40
16	319.17	316.91	316.86	321.52	323.64	323.14	322.34	321.99	321.03	320.64	315.59	318.18
17	316.40	316.85	316.98	322.60	324.30	323.27	321.94	323.12	320.91	320.67	316.20	320.55
18	316.73	316.79	316.88	322.19	324.63	323.53	322.06	321.65	320.98	321.08	322.75	317.08
19	316.99	316.95	317.03	321.85	324.82	323.70	321.75	321.82	321.26	321.26	316.94	315.39
20	315.88	316.92	317.05	322.99	324.01	323.14	321.64	321.74	320.99	320.88	315.36	315.56
21	317.47	316.89	318.27	323.69	324.40	323.09	321.52	322.17	320.98	320.70	315.37	321.87
22	317.08	316.86	320.21	322.83	323.97	323.54	322.02	321.68	320.79	320.76	315.78	318.91
23	316.94	316.96	320.24	322.96	323.77	323.23	322.15	321.92	320.58	320.76	316.56	317.36
24	317.95	317.30	319.48	324.04	323.39	322.29	322.00	321.82	320.74	320.69	318.83	315.37
25	318.62	316.86	317.10	323.35	323.79	322.69	321.58	321.65	321.12	320.88	316.05	319.25
26	322.54	316.86	317.74	322.75	324.06	323.11	321.59	321.65	320.80	321.04	315.37	317.66
27	323.83	316.91	319.41	323.66	324.31	323.40	321.96	321.70	320.96	320.91	315.85	319.33
28	320.79	316.90	320.13	324.11	323.36	323.55	321.64	322.46	320.86	320.77	319.51	316.08
29	320.71		320.36	323.44	323.85	323.50	322.04	322.84	320.83	320.66	318.71	315.37
30	319.47		320.07	322.38	323.90	322.77	321.57	321.71	321.00	320.61	318.73	315.39
31	317.70		319.78		324.94		321.84	321.53		320.73		315.39
MEAN	319.68	316.93	317.70	322.94	323.39	323.66	322.11	321.96	321.36	320.99	316.63	317.83
MAX.	338.46	319.16	320.99	328.16	328.59	328.64	326.98	327.76	326.76	328.62	331.85	325.20
	0600/10	0400/24	0700/22	1800/13	1200/11	2100/09	1500/04	1800/29	2100/11	1200/06	0600/18	1700/04
MIN.	314.80	316.02	315.33	315.24	315.04	316.02	315.22	315.26	315.19	315.23	315.15	315.24
	0300/18	1100/18	2300/13	0400/19	0500/01	0200/21	2400/19	2400/12	2200/22	2400/01	1100/03	0700/29

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

ANNUAL MEAN: 320.43

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	558.66	Dec
Daily mean elevation:	559.43	9 Jan
Instant/hourly Elevation:	560.22	0800/18 Nov

LOWEST		
Monthly mean elevation:	557.88	Feb
Daily mean elevation:	557.56	13 Feb
Instant/hourly Elevation:	556.95	2300/17 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
559.43	9 Jan
558.15	2 Feb
559.03	29 Mar
558.69	7 Apr
558.66	14 May
558.77	26 Jun
558.77	27 Jul
558.79	24 Aug
558.83	19 Sep
558.92	6 Oct
559.10	18 Nov
559.11	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
557.59	4 Jan
557.56	13 Feb
557.85	1 Mar
557.69	14 Apr
557.80	1 May
558.45	20 Jun
558.37	10 Jul
558.37	31 Aug
558.33	23 Sep
558.33	30 Oct
558.39	10 Nov
558.45	18 Dec

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

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
559.40	1											
559.20	2											
559.00			1								1	2
558.80			3						1	1		4
558.60	1		3	4	4	9	15	11	10	2	13	9
558.40	3		10	18	16	21	14	18	17	22	15	16
558.20	6		4	3	3		2	2	2	6	1	
558.00	8	7	5	2	6							
557.80	4	15	5	2	1							
557.60	5	5		1	1							
557.40	1	1										

Elev. (ft.)	No. of days above elev.
559.40	1
559.20	3
559.00	7
558.80	16
558.60	97
558.40	267
558.20	296
558.00	324
557.80	351
557.60	363
557.40	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	557.79	558.07	557.85	558.68	557.80	558.62	558.51	558.68	558.57	558.51	558.55	558.55
2	559.26	558.15	557.99	558.46	558.17	558.61	558.60	558.62	558.60	558.46	558.72	558.59
3	559.30	558.07	557.96	558.51	558.16	558.52	558.68	558.71	558.64	558.49	558.57	558.51
4	557.59	558.06	557.98	558.47	558.18	558.68	558.68	558.54	558.53	558.68	558.67	559.06
5	558.01	557.89	558.10	558.35	558.18	558.60	558.66	558.51	558.59	558.53	558.66	558.96
6	558.05	558.03	558.19	558.39	558.45	558.52	558.52	558.48	558.60	558.92	558.67	558.60
7	557.97	558.02	557.94	558.69	558.42	558.45	558.44	558.38	558.54	558.52	558.60	558.66
8	558.37	557.89	558.02	558.59	558.56	558.61	558.54	558.67	558.50	558.55	558.59	558.61
9	559.43	557.90	558.07	558.68	558.20	558.57	558.46	558.55	558.49	558.52	558.60	558.70
10	558.77	557.94	558.18	558.54	558.01	558.51	558.37	558.46	558.58	558.52	558.39	558.70
11	558.38	557.81	558.39	558.50	558.23	558.54	558.38	558.56	558.70	558.47	558.67	558.70
12	558.19	557.76	558.40	557.96	557.91	558.62	558.41	558.56	558.63	558.53	558.46	558.62
13	557.85	557.56	558.39	557.89	558.38	558.60	558.44	558.60	558.34	558.41	558.65	558.92
14	557.67	557.66	558.58	557.69	558.66	558.47	558.42	558.49	558.56	558.36	558.60	558.94
15	558.14	557.73	558.72	558.54	558.62	558.50	558.60	558.58	558.64	558.53	558.65	558.95
16	558.35	557.69	558.56	558.34	558.55	558.50	558.66	558.72	558.73	558.34	558.59	558.55
17	557.70	557.77	558.58	558.50	558.65	558.58	558.69	558.64	558.63	558.37	558.58	558.76
18	557.74	557.85	558.50	558.46	558.57	558.56	558.61	558.59	558.64	558.55	559.10	558.45
19	558.01	557.86	558.57	558.18	558.55	558.47	558.58	558.66	558.83	558.46	558.55	558.50
20	557.64	557.88	558.51	558.52	558.54	558.45	558.66	558.54	558.75	558.43	558.45	558.63
21	558.05	557.88	558.68	558.54	558.56	558.57	558.55	558.49	558.68	558.44	558.63	559.11
22	558.09	557.87	558.54	558.60	558.42	558.47	558.68	558.60	558.63	558.54	558.62	558.60
23	557.83	557.89	558.60	558.50	558.54	558.49	558.76	558.70	558.33	558.40	558.58	558.52
24	557.89	558.03	558.60	558.59	558.39	558.50	558.67	558.79	558.50	558.47	558.61	558.55
25	558.32	557.89	558.30	558.51	558.54	558.57	558.70	558.59	558.41	558.63	558.59	558.70
26	558.30	557.81	558.51	558.46	558.48	558.77	558.67	558.62	558.55	558.45	558.64	558.51
27	558.46	557.86	558.63	558.59	558.49	558.70	558.77	558.59	558.56	558.58	558.62	558.58
28	558.42	557.91	558.92	558.68	558.55	558.71	558.57	558.70	558.52	558.50	558.79	558.56
29	558.43		559.03	558.43	558.62	558.68	558.71	558.55	558.46	558.39	558.46	558.50
30	558.35		558.89	558.03	558.55	558.51	558.60	558.42	558.55	558.33	558.52	558.51
31	558.12		558.86		558.60		558.66	558.37		558.47		558.51
MEAN	558.21	557.88	558.42	558.43	558.40	558.56	558.59	558.58	558.58	558.50	558.61	558.66
MAX.	560.19	558.19	559.18	559.31	559.30	559.50	559.46	559.42	559.42	559.20	560.22	560.16
	2300/09	2300/02	2100/29	0800/10	0700/29	0700/26	0700/20	0700/03	0700/19	0700/25	0800/18	1800/04
MIN.	556.95	557.52	557.80	557.15	557.22	557.53	557.60	557.48	557.53	557.54	558.21	558.27
	2300/17	1500/13	0500/01	2200/29	2100/12	2100/07	2100/28	2100/07	1900/23	1900/23	2200/29	0300/19

ANNUAL MEAN: 558.45

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

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	561.49	May
Daily mean elevation:	562.81	27 Jan
Instant/hourly Elevation:	564.00	0345/10 Jan

LOWEST		
Monthly mean elevation:	561.14	Nov
Daily mean elevation:	560.29	14 Jan
Instant/hourly Elevation:	558.65	1400/14 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
562.81	27 Jan
562.17	2 Feb
561.74	29 Mar
561.99	15 Apr
562.36	11 May
561.55	4 Jun
561.66	27 Jul
561.72	3 Aug
561.64	19 Sep
561.74	6 Oct
561.97	18 Nov
561.97	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
560.29	14 Jan
560.84	26 Feb
560.73	25 Mar
561.18	5 Apr
561.14	12 May
561.18	30 Jun
561.14	1 Jul
561.16	31 Aug
561.00	23 Sep
561.01	30 Oct
560.85	10 Nov
560.95	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
562.80	1											
562.60	2											
562.40	3											
562.20					1							
562.00	4	2			3							
561.80	1	1		3	2						1	2
561.60	2		2	3	1		2	1	1	1		4
561.40	1	3	2	11	6	12	13	11	8	1	1	1
561.20	3	10	3	9	15	16	13	9	16	11	2	5
561.00	4	9	20	4	3	2	3	4	4	18	22	13
560.80	3	3	3						1		4	6
560.60	2											
560.40	3											
560.20	2											

Elev. (ft.)	No. of days above elev.
562.80	1
562.60	3
562.40	6
562.20	7
562.00	16
561.80	26
561.60	43
561.40	113
561.20	225
561.00	331
560.80	351
560.60	354
560.40	357
560.20	359

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	560.46	562.10	561.03	561.45	561.33	561.45	561.14	561.58	561.36	561.19	561.04	561.07
2	562.18	562.17	561.10	561.21	561.30	561.44	561.33	561.58	561.39	561.14	561.27	561.07
3	562.10	561.87	561.03	561.22	561.55	561.31	561.42	561.72	561.43	561.16	561.07	560.96
4	560.72	561.52	561.11	561.18	561.31	561.55	561.45	561.53	561.32	561.41	561.16	561.87
5	561.04	561.22	561.12	561.18	561.76	561.43	561.43	561.41	561.38	561.23	561.16	561.69
6	561.00	561.54	561.05	561.19	562.04	561.30	561.36	561.28	561.40	561.74	561.18	561.13
7	561.04	561.59	560.87	561.55	562.02	561.29	561.29	561.20	561.34	561.22	561.08	561.14
8	561.19	561.24	561.00	561.65	562.03	561.48	561.34	561.52	561.28	561.24	561.08	561.08
9	562.55	561.20	561.04	561.43	561.95	561.46	561.23	561.42	561.26	561.23	561.13	561.23
10	562.72	561.37	560.98	561.26	561.81	561.24	561.22	561.30	561.35	561.23	560.85	561.31
11	561.90	561.13	561.02	561.34	562.36	561.34	561.23	561.40	561.55	561.18	561.14	561.25
12	560.85	561.33	561.09	561.88	561.14	561.51	561.25	561.39	561.41	561.24	560.89	561.17
13	560.67	561.10	561.09	561.85	561.26	561.46	561.31	561.43	561.07	561.12	561.17	561.68
14	560.29	561.24	561.19	561.67	561.47	561.31	561.28	561.33	561.35	561.08	561.17	561.71
15	561.28	561.37	561.13	561.99	561.39	561.30	561.44	561.38	561.43	561.24	561.16	561.72
16	561.39	561.21	561.11	561.45	561.36	561.27	561.58*	561.56	561.53	561.02	561.06	561.09
17	560.30	561.19	561.16	561.41	561.54	561.36	561.31*	561.52	561.43	561.08	561.11	561.51
18	560.52	561.18	561.08	561.26	561.41	561.35	561.43	561.40	561.46	561.28	561.97	560.95
19	560.87	561.23	561.15	561.19	561.40	561.32	561.44	561.48	561.64	561.20	561.06	560.99
20	560.41	561.22	561.06	561.56	561.33	561.22	561.53	561.35	561.50	561.13	560.91	561.13
21	561.17	561.20	561.28	561.50	561.37	561.43	561.38	561.57*	561.40	561.17	561.12	561.97
22	561.50	561.16	561.16	561.38	561.18	561.29	561.21*	/	561.33	561.27	561.09	561.22
23	561.33	561.13	561.22	561.45	561.32	561.34	561.20*	/	561.00	561.12	561.11	561.06
24	561.79	561.36	561.19	561.45	561.19	561.20	561.18*	/	561.18	561.18	561.21	561.04
25	561.72	561.02	560.73	561.33	561.32	561.30	561.54	/	561.09	561.37	561.10	561.36
26	562.19	560.84	561.02	561.24	561.32	561.53	561.54	/	561.24	561.17	561.13	561.05
27	562.81	560.93	561.29	561.47	561.34	561.45	561.66	/	561.24	561.30	561.11	561.18
28	562.59	560.96	561.62	561.63	561.32	561.47	561.43	561.17*	561.22	561.19	561.45	561.06
29	562.70		561.74	561.43	561.42	561.40	561.61	561.39	561.15	561.07	561.00	560.96
30	562.42		561.52	561.32	561.34	561.18	561.49	561.20	561.25	561.01	561.07	560.97
31	562.06		561.42		561.44		561.56	561.16		561.14		560.95
MEAN	561.48	561.31	561.15	561.44	561.49	561.37	561.38	561.41	561.33	561.20	561.14	561.24
MAX.	564.00	562.33	562.07	562.89	563.14	562.37	562.46	562.60	562.44	562.32	563.66	563.34
	0345/10	1505/02	2158/21	0756/12	0950/11	0702/12	0653/20	0623/03	0655/19	1100/06	0340/17	1650/04
MIN.	558.65	560.66	560.51	560.30	560.29	560.28	560.27	560.31	560.24	560.17	560.65	560.69
	1400/14	0213/27	0933/25	2204/05	2100/12	2102/15	2030/01	2110/15	1903/25	1907/16	2215/12	2255/03

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

ANNUAL MEAN: 561.33

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	565.97	Jan	Monthly mean elevation:	564.66	Nov
Daily mean elevation:	568.46	10 Jan	Daily mean elevation:	564.14	29 Dec
Instant/hourly Elevation:	569.33	0943/10 Jan	Instant/hourly Elevation:	563.76	0935/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
568.46	10 Jan
565.95	1 Feb
565.59	29 Mar
565.95	13 Apr
566.27	11 May
565.80	13 Jun
565.62	29 Jul
565.66	17 Aug
565.31	3 Sep
565.77	6 Oct
565.96	18 Nov
565.92	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
564.66	1 Jan
564.89	26 Feb
564.64	25 Mar
565.07	3 Apr
565.08	4 May
565.39	30 Jun
565.20	30 Jul
565.02	31 Aug
564.36	13 Sep
564.31	16 Oct
564.16	12 Nov
564.14	29 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.
568.40	1												568.40	1
568.20													568.20	1
568.00													568.00	1
567.80													567.80	1
567.60													567.60	1
567.40	2												567.40	3
567.20													567.20	3
567.00													567.00	3
566.80	1												566.80	4
566.60													566.60	4
566.40	3												566.40	7
566.20	5				1								566.20	13
566.00	2				2								566.00	17
565.80	3	1		3	2						1	1	565.80	28
565.60	3	1		10	12	11	3	2		1		2	565.60	73
565.40	1	2	3	9	11	17	5	7				3	565.40	131
565.20	3	12	3	6		2	22	18	6	2		3	565.20	208
565.00	1	8	5	2	1		1	4	8	4	1		565.00	243
564.80	3	4	12						12	5	2	4	564.80	285
564.60	2		8						1	8	8	3	564.60	315
564.40										2	5	6	564.40	328
564.20									1	1	2	6	564.20	338
564.00											2	1	564.00	341

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	564.66	565.95	564.88	565.70	565.67	565.66	565.26	565.38	565.13	564.99	564.63*	564.70
2	566.16	565.76	564.98	565.26	565.57	565.72	565.25	565.34	565.18	564.80	/	564.47
3	566.37	565.48	564.90	565.07	565.56	565.60	565.24	565.52	565.31	564.84	/	564.34
4	565.37	565.36	564.97	565.35	565.08	565.65	565.39	565.34	565.11	565.26	564.66	565.74
5	565.15	565.31	565.08	565.50	565.63	565.76	565.43	565.30	565.22	565.05	564.66	565.44
6	564.72	565.32	564.95	565.23	565.97	565.54	565.41	565.26	565.28*	565.77	564.68	564.60
7	564.91	565.39	564.75	565.72	565.82	565.56	565.39	565.16	565.00*	565.29*	564.54	564.38
8	564.99	565.23	564.75	565.66	565.78	565.74	565.54	565.63	564.99	/	564.65	564.53
9	566.93	565.19	564.79	565.44	566.03	565.80	565.39	565.56	564.90	/	564.86	564.85
10	568.46	565.30	564.78	565.30	566.14	565.53	565.45	565.30	564.99	564.74*	564.46	565.22
11	567.53	565.42	564.75	565.66	566.27	565.59	565.34	565.35	565.26	564.73*	564.64	564.77
12	566.41	565.25	564.79	565.90	565.69	565.71	565.28	565.30	564.89*	565.17*	564.16	564.81
13	565.62	565.25	564.75	565.95	565.48	565.80	565.37	565.32	564.36*	564.69*	564.48	565.76
14	565.22	565.39	564.87	565.90	565.59	565.69	565.33	565.26	564.94*	/	564.96	565.43
15	565.99*	565.21	564.90	565.80	565.49	565.53	565.37	565.29	565.22*	/	564.60	565.35
16	/	565.08	564.84	565.48	565.51	565.46	565.38	565.55	565.23*	564.31*	564.34	564.58
17	564.97*	565.03	564.91	565.46	565.72	565.54	565.37	565.66	/	564.60*	564.59	565.56
18	565.61	565.24	564.88	565.18	565.67	565.59	565.32	565.32	/	/	565.96	564.48
19	565.84	565.18	564.97	565.29	565.69	565.51	565.33	565.51	565.06*	/	564.80	564.29
20	565.30	565.10	564.83	565.67	565.68	565.44	565.38	565.29	565.11	/	564.19*	564.25
21	566.04	565.05	565.14	565.73	565.74	565.60	565.33	565.23	565.18	564.72*	564.28*	565.92
22	566.24	565.16	565.18	565.57	565.59	565.57	565.39	565.29	564.99	564.84	/	564.98
23	566.30	565.25	565.26	565.52	565.61	565.54	565.61	565.34	564.82	564.71	/	564.57
24	566.26	565.04	565.14	565.57	565.60	565.40	565.30	565.49	565.08	564.77	/	564.29
25	565.48	564.91	564.64	565.42	565.61	565.41	565.37	565.24	564.88	565.02	/	565.21
26	566.59	564.89	565.06	565.36	565.57	565.57	565.45	565.24	564.95	564.81	/	564.70
27	567.54	564.94	565.39	565.61	565.54*	565.61	565.61	565.08	565.09	565.13	/	564.94
28	566.59	564.90	565.54	565.70	/	565.63	565.40	565.48	564.90	564.84	/	564.40
29	566.24		565.59	565.62	/	565.58	565.62	565.42	564.76	564.57	564.70*	564.14
30	565.97		565.47	565.57	565.57*	565.39	565.20	565.18	564.99	564.61*	565.04	/
31	565.69		565.36		565.73		565.37	565.02		/		/
MEAN	565.97	565.24	565.00	565.54	565.68	565.59	565.38	565.34	565.03	564.88	564.66	564.85
MAX.	569.33	566.16	565.73	566.40	566.66	566.16	566.20	566.04	565.84	566.75	568.74	567.32
	0943/10	0603/01	2015/28	1458/11	1057/11	1658/09	1410/29	0814/09	0840/03	1415/06	0415/18	1515/04
MIN.	563.96	564.74	564.44	564.61	564.49	564.99	564.49	564.73	564.10	564.07	563.76	563.84
	0433/26	1940/28	1835/25	0400/03	2127/04	2200/26	1515/03	2050/27	2110/13	2230/29	0935/20	0925/03

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

ANNUAL MEAN: 565.26

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	572.26	Jun	Monthly mean elevation:	570.86	Nov
Daily mean elevation:	574.10	10 Jan	Daily mean elevation:	570.05	20 Nov
Instant/hourly Elevation:	578.26	0200/18 Nov	Instant/hourly Elevation:	569.12	0200/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
574.10	10 Jan
571.24	7 Feb
571.89	28 Mar
572.44	13 Apr
572.52	9 May
572.53	13 Jun
572.26	8 Jul
572.15	8 Aug
571.62	6 Sep
572.29	6 Oct
573.40	18 Nov
572.97	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.31	20 Jan
570.92	28 Feb
570.72	25 Mar
571.38	3 Apr
571.51	4 May
572.03	25 Jun
571.48	30 Jul
571.21	31 Aug
570.26	13 Sep
570.51	16 Oct
570.05	20 Nov
570.08	29 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	1												574.00	1
573.80													573.80	1
573.60													573.60	1
573.40	1												573.40	2
573.20	1										1		573.20	4
573.00													573.00	4
572.80	1											2	572.80	7
572.60	2												572.60	9
572.40				1	2	6						1	572.40	19
572.20	1			14	19	13	1			1			572.20	68
572.00				6	7	11	8	3				1	572.00	104
571.80	1		2	4	2		16	3				2	571.80	134
571.60	3		3	4			5	11	1	1	1	3	571.60	166
571.40	2		2		1		1	12	4	3	1	1	571.40	193
571.20	5	2	4	1				2	10	7	2	1	571.20	227
571.00	7	18	5						9	5	5	2	571.00	278
570.80	3	8	14						4	8	3	3	570.80	321
570.60	1		1						1	5	9	3	570.60	341
570.40	1									1	2	4	570.40	349
570.20	1								1		1	6	570.20	358
570.00											5	2	570.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.15	571.23	570.99	572.21	572.28	572.28	571.88	571.69	571.30	571.22	570.70	571.00
2	572.66	571.17	570.93	571.67	572.31	572.38	571.80	571.69	571.37	570.97	571.13	570.50
3	572.37	571.18	570.94	571.38	572.22	572.23	571.74	571.89	571.56	571.08	570.78	570.37
4	571.80	571.13	571.02	571.89	571.51	572.23	571.94	571.70	571.27	571.62	570.77	572.97
5	571.20	571.12	570.94	572.05	572.00	572.45	572.01	571.67	571.43	571.39	570.78	571.83
6	570.83	571.20	570.91	571.68	572.26	572.17	572.00	571.64	571.62	572.29	570.76	570.71
7	570.97	571.24	570.88	572.23	572.08	572.21	572.02	571.52	571.35	571.57	570.61	570.36
8	571.33	571.12	570.84	572.08	572.07	572.42	572.26	572.15	571.16	571.30	570.84	570.56
9	573.45	571.11	570.88	571.87	572.52	572.53	572.08	572.10	571.00	571.20	571.15	571.14
10	574.10	571.12	570.89	571.80	572.38	572.20	572.14	571.67	571.09	571.21	570.67	571.63
11	572.96	571.14	570.85	572.33	572.16	572.29	572.03	571.69	571.46	570.96	570.74	570.98
12	571.68	571.14	570.89	572.28	572.16	572.42	571.89	571.60	570.79	571.23	570.05	571.13
13	570.90	571.00	570.83	572.44	572.04	572.53	572.00	571.61	570.26	570.80	570.55	572.55
14	570.63	571.07	571.00	572.23	572.16	572.43	571.96	571.57	571.18	570.66	571.32	571.86
15	571.67	571.02	571.04	572.21	571.98	572.20	571.95	571.58	571.57	570.99	570.71	571.80
16	571.45	571.01	571.00	572.07	572.06	572.11	571.87	571.95	571.35	570.51	570.31	570.77
17	570.50	571.04	571.11	572.02	572.31	572.23	571.86	572.14	570.92	570.80	570.81	572.06
18	571.08	571.02	571.12	571.75	572.29	572.31	571.84	571.56	570.97	571.32	573.40	570.60
19	571.02	571.01	571.24	571.96	572.36	572.15	571.84	571.82	571.07	571.41	571.16	570.33
20	570.31	570.97	571.05	572.28	572.36	572.09	571.84	571.53	571.22	570.90	570.05	570.20
21	571.28	571.00	571.37	572.38	572.42	572.25	571.84	571.48	571.36	571.08	570.16	572.84
22	571.42	571.06	571.41	572.24	572.28	572.28	571.92	571.55	571.08	571.04	570.47	571.42
23	571.20	570.97	571.49	572.13	572.28	572.20	572.16	571.52	571.03	570.81	571.06	570.74
24	571.14	570.99	571.23	572.22	572.31	572.04	571.66	571.70	571.36	570.94	571.38	570.33
25	571.04	570.98	570.72	572.01	572.33	572.03	571.79	571.43	571.05	571.31	570.81	571.68
26	572.62	571.01	571.35	571.96	572.30	572.17	571.90	571.45	571.11	570.97	570.13	571.00
27	573.21	570.95	571.80	572.22	572.27*	572.31	572.08	571.21	571.37	571.47	570.18	571.32
28	571.82	570.92	571.89	572.29	572.22	572.32	571.87	571.76	571.02	571.03	571.80	570.46
29	571.34		571.86	572.26	572.21	572.28	572.13	571.74	570.90	570.61	571.07	570.08
30	571.35		571.78	572.23	572.29	572.06	571.48	571.48	571.22	570.76	571.48	570.37
31	571.23		571.65		572.40		571.70	571.21		570.91		570.39
MEAN	571.60	571.07	571.16	572.08	572.22	572.26	571.92	571.65	571.18	571.11	570.86	571.10
MAX.	576.86	571.33	572.20	573.63	573.21	573.10	572.74	572.56	572.32	574.05	578.26	577.87
	1300/26	0300/07	1000/28	1400/11	2300/30	1300/26	1500/29	0600/08	2300/14	2300/05	0200/18	1400/04
MIN.	569.14	570.86	570.39	570.77	571.02	571.67	571.35	570.95	570.01	569.91	569.12	569.62
	0600/26	1200/28	0700/25	0400/03	2100/04	2200/26	0300/30	0700/31	1500/12	0200/14	0200/27	0800/03

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

/ Indicates No Data.

ANNUAL MEAN: 571.52

ANNUAL SUMMARY OF LEVELS, 1978
Station 3028: Sturgeon Point, New York on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	572.22	May
Daily mean elevation:	573.87	10 Jan
Instant/hourly Elevation:	577.31	1200/26 Jan

LOWEST		
Monthly mean elevation:	570.80	Nov
Daily mean elevation:	570.10	29 Dec
Instant/hourly Elevation:	568.74	0400/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
573.87	10 Jan
571.26	7 Feb
571.90	28 Mar
572.50	13 Apr
572.54	9 May
572.47	13 Jun
572.17	8 Jul
572.06	8 Aug
571.55	6 Sep
572.04	6 Oct
572.13	18 Nov
572.25	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.40	20 Jan
570.81	28 Feb
570.76	5 Mar
571.45	3 Apr
571.58	4 May
571.99	25 Jun
571.49	30 Jul
571.19	27 Aug
570.34	13 Sep
570.54	16 Oct
570.10	20 Nov
570.10	29 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	1												573.80	1
573.60													573.60	1
573.40	1												573.40	2
573.20	1												573.20	3
573.00													573.00	3
572.80	2												572.80	5
572.60													572.60	5
572.40	1			3	1	2							572.40	12
572.20	1			13	18	11						2	572.20	57
572.00				7	11	15	4	1		1	1		572.00	97
571.80			3	4		2	17	4				2	571.80	129
571.60	3		2	2			9	11			1	1	571.60	158
571.40	3		1	1	1		1	12	2	3		4	571.40	186
571.20	8	4	4					1	11	5	2	1	571.20	222
571.00	5	13	1					2	11	6	3	3	571.00	266
570.80	2	11	9						4	10	4	3	570.80	309
570.60	1		3						1	5	11	3	570.60	333
570.40	1									1	2	4	570.40	341
570.20	1								1		2	7	570.20	352
570.00											4	1	570.00	357
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3028: Sturgeon Point, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.27	571.23	570.88	572.23	572.35	572.24	571.84	571.63	571.26	571.16	570.69	570.94
2	572.59	571.21	570.80	571.68	572.36	572.36	571.77	571.66	571.32	570.94	571.04	570.49
3	572.22	571.20	570.81	571.45	572.27	572.20	571.77	571.85	571.49	571.12	570.78	570.37
4	571.74	571.16	570.86	571.95	571.58	572.21	571.92	571.66	571.25	571.51	570.77	571.96
5	571.25	571.17	570.76*	572.07	572.07	572.37	571.96	571.64	571.36	571.32	570.78	571.56
6	570.94	571.24	/	571.74	572.28	572.13	571.95	571.62	571.55	572.04	570.76	570.67
7	571.06	571.26	/	572.28	572.10	572.18	571.97	571.50	571.30	571.51	570.63	570.37
8	571.37	571.16	/	572.17	572.10	572.34	572.17	572.06	571.16	571.28	570.82	570.57
9	573.44	571.15	/	571.95	572.54	572.44	572.01	571.96	570.98	571.15	571.06	571.12
10	573.87	571.14	/	571.90	572.36	572.17	572.06	571.61	571.10	571.12	570.67	571.51
11	572.88	571.13	/	572.43	572.17	572.22	571.99	571.67	571.36	570.96	570.73	570.92
12	571.59	571.12	/	572.34	572.16	572.34	571.83	571.56	570.76	571.12	570.14	571.03
13	570.88	571.00	/	572.50	572.02	572.47	571.96	571.57	570.34	570.77	570.54	572.21
14	570.74	571.08	570.97*	572.31	572.18	572.37	571.91	571.54	571.16	570.73	571.20	571.61
15	571.73	571.01	570.87	572.33	572.02	572.13	571.90	571.55	571.39	570.97	570.70	571.49
16	571.46	571.01	570.84	572.20	572.09	572.08	571.84	571.89	571.32	570.54	570.34	570.70
17	570.49	571.05	570.97	572.14	572.29	572.20	571.84	571.95	570.94	570.80	570.78	571.94
18	571.16	571.02	570.98	571.86	572.27	572.22	571.79	571.53	571.01	571.23	572.13	570.59
19	571.01	571.00	571.11	572.09	572.35	572.12	571.80	571.77	571.05	571.39	570.99	570.32
20	570.40	570.97	570.96	572.39	572.32	572.06	571.79	571.49	571.19	570.85	570.10	570.23
21	571.31	570.96	571.30	572.49	572.39	572.18	571.79	571.42	571.31	571.04	570.19	572.25
22	571.45	570.96	571.40	572.36	572.26	572.20	571.84	571.52	571.07	570.99	570.48	571.23
23	571.21	570.95	571.50	572.24	572.25	572.15	572.05	571.47	571.01	570.83	570.98	570.66
24	571.16	570.89	571.25	572.32	572.31	572.00	571.63	571.64	571.31	570.94	571.31	570.32
25	571.04	570.88	570.79	572.11	572.31	571.99	571.75	571.40	571.03	571.22	570.80	571.57
26	572.88	570.90	571.40	572.06	572.27	572.13	571.87	571.42	571.09	570.93	570.17	570.92
27	573.26	570.85	571.85	572.28	572.25	572.25	571.99	571.19	571.30	571.41	570.25	571.18
28	571.80	570.81	571.90	572.35	572.19	572.23	571.81	571.71	570.99	570.97	571.76	570.44
29	571.36		571.88	572.31	572.19	572.20	571.99	571.61	570.87	570.64	570.97	570.10
30	571.37		571.80	572.27	572.31	572.04	571.49	571.46	571.14	570.74	571.34	570.37
31	571.25		571.68		572.34		571.69	571.20		570.87		570.37
MEAN	571.62	571.05	571.20	572.16	572.22	572.21	571.87	571.60	571.15	571.07	570.80	570.97
MAX.	577.31	571.39	572.35	573.60	573.25	573.10	572.76	572.57	572.24	574.04	575.61	574.22
	1200/26	0100/07	0900/28	1400/11	2200/30	2400/12	2300/26	0500/08	2200/14	2200/05	0200/18	1400/04
MIN.	568.74	570.75	570.42	570.78	571.10	571.57	571.31	570.97	569.96	569.99	569.29	569.65
	0400/26	0100/25	0700/25	0300/03	2000/04	2100/26	0200/30	0700/31	0300/13	0100/14	0200/27	0700/03

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

ANNUAL MEAN: 571.49

ANNUAL SUMMARY OF LEVELS, 1978
Station 3032: Barcelona, New York on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST

Monthly mean elevation:	572.22	May
Daily mean elevation:	572.65	10 Jan
Instant/hourly Elevation:	572.86	1400/10 Jan

LOWEST

Monthly mean elevation:	570.65	Nov
Daily mean elevation:	570.08	27 Nov
Instant/hourly Elevation:	569.69	0300/27 Nov

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
572.65	10 Jan
571.26	1 Feb
571.84	29 Mar
572.35	22 Apr
572.36	21 May
572.38	13 Jun
572.07	8 Jul
571.88	9 Aug
571.40	3 Sep
571.54	6 Oct
571.03	28 Nov
571.27	13 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
570.43	20 Jan
570.99	28 Feb
570.89	25 Mar
571.36	3 Apr
571.78	5 May
572.02	30 Jun
571.55	30 Jul
571.25	31 Aug
570.36	13 Sep
570.61	14 Oct
570.08	27 Nov
570.15	29 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
572.60	1											
572.40												
572.20				11	21	8						
572.00	1			9	8	22	1					
571.80	2		2	7	1		18	3				
571.60	2		2	2	1		11	10				
571.40	2		2				1	16		1		
571.20	5	5	3	1				2	12	3		1
571.00	8	20	6						11	9	3	5
570.80	2	3	16						6	12	4	5
570.60	2									6	13	5
570.40	2										5	8
570.20									1		2	4
570.00											3	3

Elev. (ft.)	No. of days above elev.
572.60	1
572.40	1
572.20	41
572.00	82
571.80	115
571.60	143
571.40	165
571.20	197
571.00	259
570.80	307
570.60	333
570.40	348
570.20	355
570.00	361

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3032: Barcelona, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	571.26	570.99	571.89	572.25	572.26*	571.83	571.65	571.27	571.14	570.68	570.72
2	/	571.23	570.98	571.83	572.32	572.30	571.76	571.67	571.32	571.01	570.88	570.44
3	/	571.22	570.96	571.36	572.30	572.11	571.76	571.80	571.40	571.00	570.76	570.19
4	/	571.20	570.99	571.71	571.85	572.16	571.92	571.69	571.24	571.26	570.76	570.84
5	571.25*	571.19	570.98	571.95	571.78	572.27	571.96	571.65	571.33	571.11	570.76	570.71
6	571.13	571.22	570.94	571.79	572.09	572.14	571.96	571.63	571.39	571.54	570.76	570.47
7	571.03	571.24	570.92	571.94	572.16	572.14	571.95	571.57	571.38	571.36	570.62	570.25
8	571.16	571.20	570.90	572.08	572.07	572.27	572.07	571.87	571.19	571.21	570.75	570.49
9	571.81	571.17	570.91	572.03	572.23	572.33	571.98	571.88	571.03	571.08	570.93	570.73
10	572.65	571.17	570.91	571.93	572.35	572.14	572.00	571.62	570.98	571.08	570.69	571.15
11	572.14	571.16	570.90	572.09	572.24	572.20	571.94	571.61	571.28	570.91	570.70	570.77
12	571.65	571.16	570.89	572.19	572.17	572.28	571.84	571.57	570.81	571.00	570.30	570.82
13	571.16	571.12	570.89	572.26	572.08	572.38	571.88	571.59	570.36	570.87	570.46	571.27
14	570.68	571.11	570.91	572.32	572.14	572.24	571.90	571.57	570.94	570.61	570.92	571.16
15	571.16	571.10	570.98	572.24	572.16	572.08	571.86	571.52	571.28	570.96	570.66	571.10
16	571.41	571.08	571.02	572.19	572.13	572.07	571.79	571.78	571.19	570.66	570.46	570.58
17	570.84	571.08	571.08	572.17	572.23	572.12	571.82	571.87	570.88	570.79	570.41	571.08
18	570.75	571.07	571.13	571.95	572.28	572.16	571.81	571.55	570.97	571.08	570.94	570.60
19	571.05	571.06	571.19	571.98	572.31	572.12	571.80	571.65	571.15	571.09	570.57	570.28
20	570.43	571.04	571.18	572.14	572.33	572.08	571.79	571.54	571.22	570.78	570.18	570.18
21	570.86	571.03	571.25	572.32	572.36	572.14	571.79	571.48	571.32	570.98	570.18	571.20
22	571.19	571.04	571.39	572.35	572.34	572.19	571.82	571.50	571.17	570.95	570.48	570.93
23	571.27	571.03	571.48	572.31	572.28	572.14	571.90	571.49	571.03	570.86	570.64	570.56
24	571.22	571.02	571.38	572.29	572.28	572.04	571.67	571.58	571.20	570.88	571.03	570.29
25	571.18	571.00	570.89	572.24	572.33	572.03	571.72	571.46	571.11	571.05	570.80	570.87
26	570.55	571.01	571.18	572.13	572.33	572.06	571.76	571.43	571.06	570.91	570.24	570.62
27	571.78	571.00	571.52	572.20	572.30	572.19	571.92	571.29	571.21	571.12	570.08	570.89
28	571.86	570.99	571.76	572.28	572.28	572.16	571.79	571.49	571.02	570.88	571.03	570.44
29	571.46		571.84	572.31	572.26	572.14	571.88	571.53	570.92	570.67	570.75	570.15
30	571.35		571.82	572.26	572.26	572.02	571.55	571.41	571.02	570.71	571.01	570.35
31	571.29		571.77		572.31		571.62	571.25		570.84		570.41
MEAN	571.27	571.11	571.16	572.09	572.22	572.17	571.84	571.59	571.12	570.98	570.65	570.66
MAX.	572.86	571.28	571.85	572.37	572.42	572.58	572.30	572.08	572.05	572.11	571.79	571.69
	1400/10	0800/01	0800/29	1300/22	1800/31	1800/27	1600/08	0600/17	0100/08	1600/06	0600/18	2300/13
MIN.	569.74	570.98	570.79	571.21	571.49	571.78	571.46	571.14	570.19	570.20	569.69	569.82
	0600/26	2400/28	1000/25	0600/03	2100/04	0800/27	0400/30	1000/31	0600/13	0300/14	0300/27	0900/03

ANNUAL MEAN: 571.40

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 3038: Erie, Pennsylvania on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	572.29	May
Daily mean elevation:	572.80	10 Jan
Instant/hourly Elevation:	574.16	1057/26 Jan

LOWEST		
Monthly mean elevation:	570.77	Nov
Daily mean elevation:	570.24	29 Dec
Instant/hourly Elevation:	569.63	0630/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.80	10 Jan
571.28	6 Feb
571.87	28 Mar
572.46	21 Apr
572.44	21 May
572.44	13 Jun
572.15	8 Jul
571.96	8 Aug
571.49	3 Sep
571.68	6 Oct
571.41	18 Nov
571.59	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.83	17 Jan
571.01	27 Feb
570.91	13 Mar
571.74	3 Apr
571.84	4 May
572.12	25 Jun
571.68	30 Jul
571.37	31 Aug
570.74	13 Sep
570.74	29 Oct
570.34	26 Nov
570.24	29 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	3												572.60	3
572.40				1	2	1							572.40	7
572.20				16	24	20							572.20	67
572.00	2			8	4	9	8						572.00	98
571.80	2		4	3	1		20	4					571.80	132
571.60	2		1	2			3	17		1			571.60	158
571.40	4		3					8	2		1	3	571.40	179
571.20	10	7	3					2	15	5	1	2	571.20	224
571.00	6	21	10						11	10	1	4	571.00	287
570.80	2		9						1	12	10	3	570.80	324
570.60									1	3	9	8	570.60	345
570.40											5	6	570.40	356
570.20											3	5	570.20	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3038: Erie, Pennsylvania on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.64*	571.27	571.03*	572.11	572.38	572.33	571.99	571.73	571.39	571.19	570.79	570.72
2	572.10	571.25	/	571.74	572.36	572.35*	571.93	571.75	571.38	571.06	570.90	570.53
3	571.86	571.25	571.04*	571.74*	572.27	572.28	571.99	571.87	571.49	571.13	570.81	570.39
4	571.45	571.23	571.02	571.98	571.84	572.30	572.09	571.77	571.32	571.36	570.79	571.31
5	571.29	571.23*	571.00*	572.02	572.19	572.33	572.07	571.74	571.35	571.23	570.79	571.06
6	571.15	571.28*	571.00*	571.88	572.31	572.20	572.06	571.72	571.43	571.68	570.81	570.62
7	571.19	571.24	570.98	572.18	572.19	572.25	572.06	571.65	571.34	571.38	570.75	570.49
8	571.39	571.20	570.97	572.16	572.14	572.36	572.15	571.96	571.28	571.29	570.84	570.66
9	572.77	571.20	570.96	572.00	572.43	572.40	572.05	571.88	571.18	571.08	570.88	571.10
10	572.80	571.20	570.97	572.02	572.34	572.28	572.08	571.69	571.23	571.03	570.70	571.18
11	572.01	571.19	570.94	572.31	572.23	572.29	572.04	571.74	571.33	570.96	570.73	570.73
12	571.44	571.17	570.97*	572.28	572.22	572.33	571.92	571.67	571.01	571.02	570.50	570.77
13	571.11	571.13	570.91*	572.37	572.18	572.44	571.96	571.67	570.74	570.91	570.60	571.46
14	571.14	571.18	571.04	572.26	572.28	572.35	571.97	571.65	571.18	570.92	570.98	571.18
15	571.53	571.12	571.07	572.29	572.23	572.16	571.95	571.63	571.33	571.01	570.75	570.98
16	571.43	571.12	571.08	572.24	572.21	572.13	571.93	571.80	571.31	570.77	570.50	570.63
17	570.83	571.12	571.16	572.20	572.27	572.22	571.93	571.81	571.09	570.92	570.71	571.43
18	571.26	571.10	571.16	572.01	572.28	572.22	571.88	571.59	571.25	571.10	571.41	570.64
19	571.16	571.10	571.23	572.17	572.34	572.17	571.87	571.73	571.20	571.22	570.83	570.39
20	570.85	571.09	571.16	572.39	572.39	572.16	571.86	571.65	571.30	570.90	570.36	570.36
21	571.32	571.08	571.39	572.46	572.44	572.25	571.88	571.56	571.34	570.97	570.39	571.59
22	571.38*	571.09	571.44	572.37	572.37	572.24	571.87	571.60	571.24	570.94	570.59	570.87
23	571.25	571.06	571.52	572.30	572.35	572.23	571.98	571.56	571.11	570.95	570.83	570.55
24	571.22	571.04	571.31	572.35	572.39	572.14	571.77	571.64	571.27	570.95	571.15	570.36
25	571.16	571.07	571.04	572.26	572.38	572.12	571.82	571.52	571.13	571.02	570.84	571.21
26	571.97	571.05	571.54*	572.24	572.38	572.15	571.88	571.51	571.10	570.91	570.34	570.80
27	572.72	571.01	571.84*	572.37	572.38	572.27	571.99	571.39	571.20	571.17	570.46	570.89
28	571.72	571.03	571.87	572.40	572.31	572.24	571.86	571.66	571.04	570.91	571.31	570.46
29	571.37		571.85	572.34	572.30	572.22	571.93	571.55	570.93	570.74	570.74	570.24
30	571.38		571.82	572.33	572.36	572.17	571.68	571.49	571.06	570.78	571.00	570.43
31	571.28		571.76		572.36		571.75	571.37		570.86		570.42
MEAN	571.52	571.15	571.24	572.19	572.29	572.25	571.94	571.66	571.22	571.05	570.77	570.79
MAX.	574.16	571.39	572.10	572.84	572.93	573.02	572.42	572.55	572.09	572.50	573.65	572.84
	1057/26	0009/07	0730/28	1530/11	1624/09	1027/26	2148/26	1956/19	0538/12	1122/06	0226/18	0335/17
MIN.	569.63	570.93	570.72	571.15	571.44	571.37	571.48	571.16	570.27	570.37	569.81	569.87
	0630/26	1122/28	0700/25	0204/03	1810/04	1800/26	1125/30	1543/15	1532/13	2110/05	0150/27	0635/03

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

ANNUAL MEAN: 571.51

ANNUAL SUMMARY OF LEVELS, 1978
Station 3053: Fairport Harbor, Ohio on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST

Monthly mean elevation:	572.41	May
Daily mean elevation:	572.50	22 May
Instant/hourly Elevation:	573.15	1800/30 May

LOWEST

Monthly mean elevation:	570.60	Dec
Daily mean elevation:	570.38	15 Dec
Instant/hourly Elevation:	569.86	0325/18 Nov

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
	Jan
571.16	17 Feb
571.91	31 Mar
572.49	25 Apr
572.50	22 May
572.42	1 Jun
572.19	3 Jul
571.89	4 Aug
571.47	18 Sep
571.22	1 Oct
570.92	12 Nov
570.91	9 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
	Jan
571.04	22 Feb
570.95	5 Mar
571.89	1 Apr
572.29	4 May
572.15	27 Jun
571.83	31 Jul
571.50	28 Aug
571.08	30 Sep
570.80	25 Oct
570.57	18 Nov
570.38	15 Dec

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

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
572.40				10	18	1						
572.20				13	13	24						
572.00				5		5	15					
571.80			6	2			16	7				
571.60			3					14				
571.40			2					6	6			
571.20			4						19	2		
571.00		12	11						5	15		
570.80			5							13	12	2
570.60										1	17	9
570.40											1	19
570.20												1

Elev. (ft.)	No. of days above elev.
572.40	29
572.20	79
572.00	104
571.80	135
571.60	152
571.40	166
571.20	191
571.00	234
570.80	266
570.60	293
570.40	313
570.20	314
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3053: Fairport Harbor, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	571.06	571.89	572.41	572.42	572.11	571.79	571.45	571.22	570.89	570.58
2	/	/	571.03	571.96	572.37	572.40	572.12	571.81	571.39	571.21	570.77	570.68
3	/	/	571.00	572.08	572.35	572.40	572.19	571.87	571.42	571.12	570.85	570.64
4	/	/	570.95	572.08	572.29	572.33	572.18	571.89	571.41	571.10	570.84	570.58
5	/	/	570.95	572.06	572.38	572.30	572.06	571.84	571.35	571.03	570.80	570.53
6	/	/	570.96	572.18	572.38	572.28	572.05	571.81	571.32	571.17	570.87	570.68
7	/	/	570.99	572.15	572.36	572.31	572.06	571.82	571.38	571.18	570.88	570.75
8	/	/	571.01	572.21	572.35	572.37	572.06	571.80	571.44	571.17	570.80	570.83
9	/	/	571.02	572.21	572.36	572.33	572.09	571.78	571.38	571.04	570.69	570.91
10	/	/	571.02	572.28	572.35	572.36	572.10	571.82	571.35	570.97	570.77	570.74
11	/	/	571.02	572.25	572.37	572.32	572.05	571.79	571.24	571.00	570.78	570.60*
12	/	/	571.04	572.27	572.33	572.39	572.04	571.77	571.38	570.97	570.92	570.55*
13	/	/	571.03*	572.26	572.40	572.37	571.99	571.75	571.35	571.09	570.77	570.57
14	/	/	571.07	572.31	572.42	572.28	572.04	571.73	571.28	571.16	570.78	570.60
15	/	/	571.11	572.28	572.49	572.27	572.01	571.73	571.33	571.08	570.83	570.38
16	/	/	571.19	572.29	572.45	572.26	572.03	571.68	571.29	571.12	570.84	570.55
17	/	571.16*	571.22	572.29	572.43	572.24	571.99	571.66	571.36	571.09	570.77	570.55
18	/	571.15	571.24	572.30	572.46	572.26	571.95	571.71	571.47	570.96	570.57	570.61
19	/	571.13	571.28	572.36	572.45	572.28	571.94	571.61*	571.43	571.04	570.76	570.55
20	/	571.13	571.33	572.41	572.45	572.24	571.93	/	571.38	571.02	570.89	570.61
21	/	571.10*	571.44	572.42	572.50	572.27	571.93	/	571.40	570.93	570.84	570.52
22	/	571.04*	571.53	572.44	572.50	572.23	571.92	/	571.39	570.92	570.77	570.46
23	/	571.08*	571.62	572.45	572.48	572.21	571.89	/	571.29	571.09	570.67	570.50
24	/	571.06	571.65	572.46	572.47	572.20	571.92	571.62*	571.26	570.96	570.83	570.54
25	/	571.08	571.78	572.49	572.45	572.17	571.88	571.61	571.30	570.80	570.75	570.62
26	/	571.07	571.84	572.47	572.44	572.26	571.86	571.58	571.20	570.98	570.71	570.62
27	/	571.07	571.83	572.43	572.44	572.15	571.92	571.60	571.12	570.83	570.81	570.60
28	/	571.08	571.83	572.41	572.43	572.20	571.89	571.50	571.19	570.91	570.71	570.52
29	/		571.86	572.41	572.39	572.20	571.83	571.53	571.08	570.94	570.62	570.53
30	/		571.89	572.39	572.42	572.22	571.92	571.52	571.08	570.89	570.63	570.56
31	/		571.91		572.41		571.83	571.56		570.90		570.58
MEAN	/	571.10	571.31	572.28	572.41	572.28	571.99	571.71	571.32	571.03	570.78	570.60
MAX.		571.22	572.11	572.71	573.15	573.06	572.31	572.18	571.82	572.23	571.74	571.17
		0830/18	1654/31	0753/26	1800/30	0130/05	0450/27	0157/04	0134/15	1740/05	1950/17	0055/21
MIN.		571.00	570.87	571.68	571.92	571.53	571.34	571.24	570.87	570.30	569.86	569.89
		0925/25	1750/08	1125/01	2128/09	1840/12	1110/29	1100/28	0925/12	2155/05	0325/18	1337/04

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

ANNUAL MEAN: 571.53

ANNUAL SUMMARY OF LEVELS, 1978
Station 3063: Cleveland, Ohio on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	572.38	May
Daily mean elevation:	572.50	21 May
Instant/hourly Elevation:	572.77	1900/12 Jun

LOWEST		
Monthly mean elevation:	570.47	Dec
Daily mean elevation:	570.01	15 Dec
Instant/hourly Elevation:	567.66	1200/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.68	20 Jan
571.30	4 Feb
572.04	25 Mar
572.49	26 Apr
572.50	21 May
572.39	3 Jun
572.24	3 Jul
571.89	4 Aug
571.53	13 Sep
571.24	14 Oct
571.00	12 Nov
570.80	8 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
570.31	26 Jan
571.08	26 Feb
570.99	14 Mar
571.83	1 Apr
572.24	9 May
572.13	27 Jun
571.76	29 Jul
571.42	28 Aug
571.02	30 Sep
570.64	25 Oct
570.33	18 Nov
570.01	15 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	11								572.40	15
572.20				16	20	19	1						572.20	71
572.00			1	9		11	12						572.00	104
571.80			5	1			16	6					571.80	132
571.60	3		2				2	13					571.60	152
571.40	6		2					12	8				571.40	180
571.20	13	11	3						16	2			571.20	225
571.00	5	17	15						6	11			571.00	279
570.80	3		3							16	10		570.80	311
570.60										2	14	6	570.60	333
570.40											4	16	570.40	353
570.20	1										2	6	570.20	362
570.00												3	570.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3063: Cleveland, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.57	571.28	571.06	571.83	572.34	572.38	572.18	571.76	571.44	571.24	570.92	570.45
2	571.07	571.30	571.07	572.02	572.32	572.34	572.16	571.74	571.37	571.20	570.74	570.68
3	571.11	571.30	571.08	572.16	572.32	572.39	572.24	571.84	571.38	571.04	570.83	570.61
4	571.08	571.30	571.02	572.04	572.46	572.30	572.18	571.89	571.43	571.01	570.81	570.25
5	571.34	571.29	571.03	572.03	572.39	572.27	572.14	571.82	571.32	570.96	570.78	570.18
6	571.45	571.27	571.04	572.16	572.32	572.26	572.12	571.81	571.25	570.96	570.88	570.60
7	571.41	571.23	571.06	572.09	572.37	572.31	572.10	571.86	571.35	571.16	570.93	570.69
8	571.46	571.25	571.07	572.18	572.29	572.37	572.05	571.68	571.39	571.15	570.77	570.80
9	571.22	571.24	571.03	572.22	572.24	572.30	572.09	571.70	571.41	570.97	570.54	570.78
10	570.88	571.21	571.00	572.27	572.32	572.34	572.10	571.82	571.32	570.92	570.74	570.50
11	570.90	571.19	571.00	572.18	572.32	572.27	572.05	571.76	571.18	570.92	570.75	570.48
12	571.24	571.17	571.01	572.21	572.26	572.29	572.04	571.76	571.44	570.92	571.00	570.41
13	571.54	571.26	571.03	572.19	572.37	572.38	571.92	571.74	571.53	571.11	570.72	570.23
14	571.62	571.19	570.99	572.26	572.41	572.26	571.99	571.73	571.17	571.24	570.69	570.25
15	571.21	571.18	571.10	572.22	572.49	572.26	571.97	571.69	571.25	571.06	570.79	570.01
16	571.22	571.17	571.17	572.25	572.45	572.22	572.03	571.55	571.23	571.17	570.87	570.40
17	571.67	571.16	571.18	572.26	572.40	572.18	571.96	571.59	571.34	571.09	570.61	570.36
18	571.37	571.15	571.18	572.33	572.41	572.20	571.93	571.67	571.41	570.86	570.33	570.58
19	571.42	571.15	571.24	572.36	572.40	572.25	571.90	571.65	571.45	570.92	570.65	570.58
20	571.68	571.15	571.33	572.37	572.38	572.23	571.89	571.72	571.37	571.01	570.99	570.63
21	571.30	571.12	571.37	572.37	572.50	572.25	571.90	571.67	571.39	570.84	570.89	570.15
22	571.20	571.09	571.50	572.40	572.47	572.20	571.86	571.59	571.43	570.85	570.76	570.21
23	571.29	571.10	571.59	572.42	572.44	572.18	571.85	571.59	571.32	571.15	570.56	570.47
24	571.30	571.08	571.85	572.41	572.43	572.18	571.93	571.52	571.24	570.89	570.77	570.53
25	571.39	571.09	572.04	572.49	572.42	572.15	571.83	571.60	571.34	570.64	570.74	570.47
26	570.31	571.08	571.92	572.49	572.41	572.15	571.78	571.55	571.18	570.96	570.80	570.54
27	570.83	571.00	571.79	572.39	572.40	572.13	571.88	571.60	571.12	570.67	570.88	570.50
28	571.20	571.09	571.74	572.35	572.39	572.17	571.89	571.42	571.23	570.89	570.46	570.52
29	571.31		571.84	572.37	572.38	572.17	571.76	571.47	571.13	570.96	570.40	570.59
30	571.24		571.87	572.37	572.34	572.20	571.94	571.48	571.02	570.87	570.48	570.52
31	571.28		571.91		572.36		571.82	571.56		570.86		570.52
MEAN	571.26	571.18	571.33	572.26	572.38	572.25	571.98	571.67	571.31	570.98	570.74	570.47
MAX.	572.23	571.39	572.16	572.69	572.71	572.77	572.39	572.13	572.01	571.90	571.49	571.01
	0500/26	1100/07	0600/25	1500/19	1000/21	1900/12	2300/01	0100/04	1400/12	1700/05	2000/17	1900/08
MIN.	567.66	571.00	570.78	571.58	571.72	571.35	571.33	571.20	570.83	570.18	569.21	569.25
	1200/26	1700/28	1400/14	0800/01	1800/09	0900/26	0900/27	1400/29	1500/15	0800/06	0300/18	1400/04

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

/ Indicates No Data.

ANNUAL MEAN: 571.48

ANNUAL SUMMARY OF LEVELS, 1978
Station 3079: Marblehead, Ohio on Lake Erie

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	572.42	May	Monthly mean elevation:	570.24	Dec
Daily mean elevation:	573.03	4 May	Daily mean elevation:	568.88	26 Jan
Instant/hourly Elevation:	573.56	2003/4 May	Instant/hourly Elevation:	564.51	1052/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.96	17 Jan
571.34	4 Feb
572.69	25 Mar
572.66	26 Apr
573.03	4 May
572.41	3 Jun
572.42	2 Jul
571.92	10 Aug
571.95	13 Sep
571.44	16 Oct
571.23	12 Nov
570.82	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
568.88	26 Jan
571.08	25 Feb
570.95	14 Mar
571.57	1 Apr
572.04	9 May
572.02	26 Jun
571.66	29 Jul
571.28	28 Aug
570.94	30 Sep
570.13	6 Oct
569.65	18 Nov
569.26	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.
573.00					1								573.00	1
572.80													572.80	1
572.60			1	3									572.60	5
572.40				7	15	1	2						572.40	30
572.20			1	13	12	19	2						572.20	77
572.00			1	6	1	10	10						572.00	105
571.80	2		3				13	6	1				571.80	130
571.60	2		3				4	11					571.60	150
571.40	5		2	1				11	9	1			571.40	179
571.20	7	13	1					3	10	2	2		571.20	217
571.00	7	15	18						8	6	4		571.00	275
570.80	1		1						2	14	6	1	570.80	300
570.60	1									4	8	6	570.60	319
570.40	1									3	4	7	570.40	334
570.20	1										3	5	570.20	343
570.00										1	1	3	570.00	348
569.80	1										1	1	569.80	351
569.60	1										1	4	569.60	357
569.40												2	569.40	359
569.20	1											2	569.20	362
569.00													569.00	362
568.80	1												568.80	363
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3079: Marblehead, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.44	571.29	571.08	571.57	572.37	572.40	572.42	571.78	571.49	571.17	570.95	570.36
2	570.38	571.32	571.12	572.24	572.31	572.36	572.42	571.73	571.36	571.21	570.64	570.75
3	570.90*	571.33	571.08	572.39	572.32	572.41	572.40	571.79	571.30	570.97	570.78	570.82
4	571.02	571.34	571.02	572.02	573.03	572.30	572.25	571.91	571.48	570.78	570.78	569.54
5	571.38	571.31	571.05	572.06	572.47	572.31	572.18	571.83	571.27	570.82	570.73	569.77
6	571.58	571.27	571.09	572.35	572.32	572.31	572.17	571.82	571.18	570.13	570.85	570.56
7	571.51	571.22	571.10	572.05	572.49	572.31	572.14	571.90	571.26	570.90	570.95	570.80
8	571.39	571.28	571.08	572.22	572.39	572.39	571.98	571.51	571.35	570.93	570.64	570.80
9	569.96	571.26	571.04	572.45	572.04	572.29	572.09	571.59	571.52	570.90	570.36	570.34
10	569.75	571.23	571.03	572.40	572.27	572.38	572.12	571.92	571.36	570.88	570.72	570.05
11	570.45	571.20	571.06	572.08	572.34	572.24	572.09	571.75	571.13	570.92	570.79	570.38
12	571.19	571.21	571.03	572.10	572.29	572.16	572.10	571.82	571.60	570.83	571.23	570.19
13	571.68	571.29	571.07	572.06	572.50	572.31	571.89	571.76	571.95	571.12	570.84	569.38
14	571.73	571.19	570.95	572.21	572.46*	572.27	571.99	571.80	571.20	571.35	570.46	569.68
15	571.06	571.22	571.05	572.22	/	572.33	571.97	571.70	571.15	570.97	570.84	569.59
16	571.15	571.20	571.19	572.28	/	572.29	572.09	571.40*	571.16	571.44	571.08	570.21
17	571.96	571.16	571.19	572.32	572.43*	572.17	571.98	571.58*	571.43	571.14	570.46	569.64
18	571.39	571.16	571.17	572.61	572.46	572.15	571.92	571.67	571.42	570.70	569.65	570.42
19	571.48	571.17	571.14	572.48	572.39	572.26	571.88	571.50	571.52	570.56	570.56	570.77
20	571.88	571.17	571.41	572.34	572.40	572.30	571.90	571.73	571.36	571.04	571.22	570.68
21	571.33	571.13	571.23	572.35	572.56	572.17	571.88	571.69	571.32	570.79	571.12	569.26
22	571.18	571.08	571.42	572.43	572.53	572.20	571.82	571.58	571.43	570.79	570.81	569.91
23	571.34	571.13	571.62	572.53	572.49	572.21	571.76	571.58	571.42	571.12	570.45	570.43
24	571.35	571.11	572.31	572.43	572.44	572.26	572.02	571.40*	571.13	570.82	570.26	570.60
25	571.48	571.08	572.69	572.62	572.45*	572.16	571.82	571.58*	571.35	570.46	570.62	569.76
26	568.88	571.12	572.06	572.66	572.45	572.02	571.70	571.56	571.16	570.83	571.17	570.24
27	569.24	571.11	571.75	572.40	572.43	572.06*	571.72	571.68	570.94	570.42	571.05	570.07
28	570.73	571.11	571.66	572.36	572.46	572.17	571.90	571.28*	571.21	570.81	569.85	570.60
29	571.18		571.82	572.41	572.43	572.17	571.66	571.57*	571.17	571.06	570.33	570.78
30	571.16		571.86	572.46	572.35	572.24	572.04	571.46	570.94	570.92	570.12	570.58
31	571.25		571.99		572.33		571.84	571.60		570.86		570.58
MEAN	571.05	571.20	571.37	572.30	572.42	572.25	572.00	571.66	571.32	570.89	570.68	570.24
MAX.	572.53	571.44	573.05	573.02	573.56	572.88	572.73	572.49	572.38	572.12	571.71	571.49
	1712/17	0840/05	0715/25	0752/26	2003/04	1322/03	2050/01	0815/10	0655/13	0300/14	0200/27	0840/03
MIN.	564.51	571.01	570.34	571.17	571.57	570.63	571.23	570.91	570.61	569.04	567.01	568.17
	1052/26	1555/22	1437/14	0620/01	1930/09	1010/26	1400/29	0745/28	0312/16	1355/06	0345/18	1250/04

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

/ Indicates No Data.

ANNUAL MEAN: 571.45

ANNUAL SUMMARY OF LEVELS, 1978
Station 3085: Toledo, Ohio on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	572.50	May	Monthly mean elevation:	570.08	Dec
Daily mean elevation:	574.19	4 May	Daily mean elevation:	568.52	21 Dec
Instant/hourly Elevation:	574.97	1700/4 May	Instant/hourly Elevation:	565.29	0400/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.97	17 Jan
571.38	4 Feb
573.06	25 Mar
573.08	18 Apr
574.19	4 May
572.45	15 Jun
572.90	2 Jul
572.16	7 Aug
572.66	13 Sep
571.78	16 Oct
571.89	26 Nov
571.16	19 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
569.00	9 Jan
571.12	25 Feb
571.04	14 Mar
571.43	1 Apr
571.69	9 May
571.95	21 Jun
571.50	29 Jul
570.98	28 Aug
570.81	27 Sep
569.42	6 Oct
568.95	18 Nov
568.52	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.
574.00					1								574.00	1
573.80													573.80	1
573.60													573.60	1
573.40													573.40	1
573.20													573.20	1
573.00			1	1									573.00	3
572.80				3			2						572.80	8
572.60				4	5				1				572.60	18
572.40			1	8	15	3	1						572.40	46
572.20			1	6	9	16	3						572.20	81
572.00			1	3		7	8	2					572.00	102
571.80	2		5	4		4	11	6	1		1		571.80	136
571.60	3		3		1		3	11	3	1			571.60	161
571.40	5			1			3	5	6	1	1		571.40	183
571.20	10	20	4					4	10	4	4		571.20	239
571.00	3	8	15					1	7	4	3	4	571.00	284
570.80								1	2	8	6	1	570.80	302
570.60	2									9	4	7	570.60	324
570.40	1										2	2	570.40	329
570.20										3	4	2	570.20	338
570.00	1										1	2	570.00	342
569.80	1											2	569.80	345
569.60											2	1	569.60	348
569.40	1									1		2	569.40	352
569.20											1	1	569.20	354
569.00	1											4	569.00	359
568.80	1										1		568.80	361
568.60												1	568.60	362
568.40												2	568.40	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3085: Toledo, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.49	571.35	571.08	571.43	572.42	572.37	572.81	571.76	571.57	571.16	571.05	570.32
2	570.10	571.36	571.15	572.63	572.26	572.32	572.90	571.67	571.35	571.33	570.65	570.89
3	570.78	571.36	571.09	572.70	572.45	572.42	572.56	571.71	571.21	570.98	570.87	571.16
4	571.09	571.38	571.05	572.00	574.19	572.29	572.26	571.93	571.52	570.61	570.87	568.78
5	571.48	571.34	571.09	572.17	572.59	572.29	572.24	571.85*	571.22	570.79	570.77	569.39
6	571.64	571.28	571.12	572.62	572.30	572.43	572.19	/	571.07	569.42	570.89	570.61
7	571.52	571.23	571.13	572.01	572.71	572.33	572.09	572.16*	571.17	570.61	571.05	571.07
8	571.27	571.32	571.10	572.38	572.46	572.37	571.84	571.34	571.32	570.78	570.63	570.76
9	569.00	571.28	571.09	572.82	571.69	572.24	572.09	571.47	571.68	570.95	570.27	569.83
10	569.05	571.26	571.06	572.54	572.24	572.38	572.07	572.01	571.38	570.90	570.79	569.60
11	570.45	571.23	571.09	571.87	572.36	572.16	572.16	571.80	571.06	570.98	570.92	570.39
12	571.21	571.24	571.06	571.90	572.33	571.96	572.19	571.91	571.84	570.79	571.55	570.12
13	571.69	571.32	571.13	571.81	572.62	572.23	571.82	571.81*	572.66	571.24	571.05	568.57
14	571.75	571.21	571.04	572.09	572.57	572.30	571.99	571.85*	571.17	571.52	570.17	569.07
15	571.10	571.28	571.16	572.28	572.78	572.45	571.93	571.70*	571.04	570.97	570.89	569.15
16	571.22	571.25	571.25	572.38	572.71	572.34	572.12	571.10	571.16	571.78	571.38	570.08
17	571.97	571.21	571.24	572.46	572.40	572.09	571.94	571.38	571.55	571.27	570.29	569.13
18	571.38	571.22	571.35	573.08	572.49	572.09	571.94	571.69	571.41	570.63	568.95	570.44
19	571.50	571.22	571.26	572.54	572.40	572.28	571.91	571.33	571.64	570.35	570.53	571.16
20	571.89	571.22	571.79	572.34	572.34	572.39	571.90	571.74	571.38	571.14	571.38	570.79
21	571.35	571.17	571.70	572.39	572.58	571.95	571.81	571.76	571.29	570.78	571.24	568.52
22	571.19	571.12	571.86	572.52	572.62	572.13	571.73	571.59	571.53	570.79	570.87	569.56
23	571.39	571.18	571.91	572.71	572.53	572.26	571.62	571.58*	571.64	571.11	570.32	570.43
24	571.39	571.17	572.52	572.51	572.44	572.38	572.12	571.44*	571.11	570.82	569.73	570.71
25	571.50	571.12	573.06	572.85	572.45	572.19	571.80	571.74	571.45	570.36	570.53	569.09
26	569.82	571.13	572.22	572.87	572.46	571.98	571.58	571.64	571.22	570.75	571.89	569.97
27	569.44	571.16	571.86	572.42	572.46	571.98	571.50	571.86	570.81	570.21	571.39	569.74
28	570.80	571.15	571.77	572.36	572.55	572.14	571.96	570.98	571.30	570.83	569.25	570.69
29	571.25		571.96	572.53	572.50	572.13	571.50	571.28	571.39	571.25	570.28	571.02
30	571.21		571.99	572.59	572.46*	572.29	572.24	571.45	570.94	571.04	569.75	570.69
31	571.31		572.11		572.26		571.92	571.68*		570.94		570.71
MEAN	571.04	571.24	571.49	572.39	572.50	572.24	572.02	571.64	571.37	570.87	570.67	570.08
MAX.	572.66	571.53	573.63	573.99	574.97	573.32	573.69	572.73	573.74	573.10	572.67	572.09
	0600/26	0600/05	0800/25	0900/18	1700/04	2000/26	1900/01	0900/10	0500/13	1200/16	1300/26	0800/03
MIN.	566.92	570.96	570.18	570.82	570.71	571.00	570.54	570.46	570.01	568.12	565.29	566.87
	1800/26	1700/26	1800/14	1700/11	1500/09	1300/26	1300/29	1400/16	0500/16	1300/06	0400/18	0500/21

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

ANNUAL MEAN: 571.46

ANNUAL SUMMARY OF LEVELS, 1978
Station 3087: Monroe, Michigan on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	572.49	May	Monthly mean elevation:	570.18	Dec
Daily mean elevation:	573.68	4 May	Daily mean elevation:	568.66	4 Dec
Instant/hourly Elevation:	574.16	1600/4 May	Instant/hourly Elevation:	565.99	0200/18 Nov

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
	Jan
571.29	13 Feb
572.70	25 Mar
572.95	18 Apr
573.68	4 May
572.49	15 Jun
572.78	2 Jul
571.99	7 Aug
572.49	13 Sep
571.33	2 Oct
571.56	26 Nov
570.96	29 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
	Jan
571.07	7 Feb
571.04	14 Mar
571.54	1 Apr
571.90	9 May
571.94	21 Jun
571.61	27 Jul
571.25	16 Aug
570.86	27 Sep
571.16	1 Oct
569.28	18 Nov
568.66	4 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.
573.60					1								573.60	1
573.40													573.40	1
573.20													573.20	1
573.00													573.00	1
572.80				1									572.80	2
572.60			1	4	4		2						572.60	13
572.40				10	18	6	1		1				572.40	49
572.20			1	7	7	15	4						572.20	83
572.00			2	4		8	7						572.00	104
571.80			2	3	1	1	13	7					571.80	131
571.60			3				4	10	2				571.60	150
571.40			2	1				4	10		1		571.40	168
571.20		5	2					3	6	1	4		571.20	189
571.00		18	18						7	1	2		571.00	235
570.80									2		9	2	570.80	248
570.60											3	4	570.60	255
570.40											3	3	570.40	261
570.20											4	1	570.20	266
570.00												1	570.00	267
569.80											1	2	569.80	270
569.60											1		569.60	271
569.40											1		569.40	272
569.20											1	1	569.20	274
569.00													569.00	274
568.80												1	568.80	275
568.60												1	568.60	276
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3087: Monroe, Michigan on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	571.07	571.54	572.32	572.44	572.76	571.78	/	571.16	570.98*	570.40
2	/	/	571.13	572.42	572.26	572.32	572.78	571.70	/	571.33*	570.66	570.60*
3	/	/	571.07	572.59	572.40	572.41	572.46	571.73	571.57*	/	570.89	570.81*
4	/	/	571.04	572.02	573.68	572.35	572.25	571.94	571.46	/	570.85	568.66*
5	/	/	571.08	572.12	572.57	572.23	572.24	571.85	571.21	/	570.82	/
6	/	571.12*	571.09	572.56	572.28	572.45	572.23	571.87	571.09	/	570.80	/
7	/	571.07	571.10	572.00	572.63	572.34	572.16	571.99	571.17	/	570.97	/
8	/	571.09	571.07	572.27	572.49	572.36	571.88	571.47	571.30	/	570.71	/
9	/	571.08	571.07	572.64	571.90	572.31	572.12	571.54	571.60	/	570.38	/
10	/	571.14	571.04	572.51	572.23	572.44	572.02	571.97	571.44	/	570.82	/
11	/	571.21	571.08	572.00	572.43	572.32	572.10	571.77	571.12	/	570.85	/
12	/	571.22	571.05	572.10	572.46	572.05	572.22	571.88	571.68	/	571.23	/
13	/	571.29	571.11	571.90	572.74	572.18	571.90	571.77	572.49	/	571.08	/
14	/	571.19	571.04	572.14	572.49	572.29	571.95	571.83	571.28	/	570.25	/
15	/	571.26	571.13	572.24	572.66	572.49	572.00	571.79	571.15	/	570.86	/
16	/	571.23	571.20	572.34	572.60	572.40	572.09	571.25	571.17	/	571.22	/
17	/	571.20	571.18	572.41	572.42	572.25	571.97	571.40	571.54	/	570.57	/
18	/	571.20	571.25	572.95	572.54	572.15	571.99	571.71	571.47	/	569.28	/
19	/	571.19	571.18	572.51	572.41	572.28	571.95	571.30	571.66	/	570.53	/
20	/	571.20	571.50	572.30	572.37	572.41	571.94	571.76	571.43	/	571.25	570.46*
21	/	571.15	571.37	572.32	572.44	571.94	571.90	571.75	571.33	/	571.10	568.84
22	/	571.11	571.58	572.49	572.65	572.15	571.82	571.61	571.43	/	570.82	569.86
23	/	571.16	571.69	572.66	572.53	572.24	571.68	571.58	571.57	/	570.38	570.49
24	/	571.15	572.23	572.43	572.44	572.35	572.09	571.42*	571.10	/	569.79	570.68
25	/	571.10	572.70	572.70	572.48	572.30	571.82	/	571.39	/	570.52	569.30
26	/	571.11	572.07	572.66	572.46	572.11	571.69	/	571.29	/	571.56	570.05
27	/	571.14	571.77	572.33*	572.46	572.12	571.61	/	570.86	/	571.22	569.86
28	/	571.13	571.73	572.34	572.58	572.02*	571.95	/	571.16	/	569.49	570.65
29	/		571.86	572.45	572.56	572.10*	571.62	/	571.42	/	570.39	570.96
30	/		571.94	572.51	572.49	572.28	572.13	/	570.98	/	569.86	570.64
31	/		572.11		572.34		571.90	/		/		570.69
MEAN	/	571.16	571.40	572.35	572.49	572.27	572.04	571.69	571.37	571.24	570.67	570.18
MAX.		571.37	573.10	573.81	574.16	573.36	573.41	572.61	573.18	571.74	572.24	571.40
		1600/13	0700/25	0900/18	1600/04	2000/26	1800/01	0900/10	0500/13	0800/02	2400/26	2400/03
MIN.		570.90	570.27	571.22	571.09	570.98	570.74	570.63	570.20	570.50	565.99	567.32
		1600/07	1700/14	0200/07	1800/09	1200/26	1300/29	2000/19	0500/16	0100/01	0200/18	0500/21

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

ANNUAL MEAN: 571.53

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	572.43	May	Monthly mean elevation:	570.18	Dec
Daily mean elevation:	573.38	4 May	Daily mean elevation:	568.91	21 Dec
Instant/hourly Elevation:	573.83	1700/4 May	Instant/hourly Elevation:	566.17	0300/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
571.87	17 Jan
571.33	4 Feb
572.61	25 Mar
572.82	18 Apr
573.38	4 May
572.45	15 Jun
572.65	2 Jul
571.94	7 Aug
572.35	13 Sep
571.50	16 Oct
571.42	26 Nov
571.09	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
569.25	9 Jan
571.08	26 Feb
571.00	12 Mar
571.54	1 Apr
571.90	9 May
571.96	21 Jun
571.54	27 Jul
571.13	28 Aug
570.86	27 Sep
569.72	6 Oct
569.38	18 Nov
568.91	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.
573.20					1								573.20	1
573.00													573.00	1
572.80				1									572.80	2
572.60			1	1	1		2						572.60	7
572.40				10	17	1							572.40	35
572.20				9	11	17	1		1				572.20	74
572.00			2	5		10	9						572.00	100
571.80	1		2	3	1	2	15	4					571.80	128
571.60	3		3				2	14	1				571.60	151
571.40	5		3	1			2	6	7	1	1		571.40	177
571.20	8	12	2					6	11	2			571.20	218
571.00	7	16	16					1	8	8	6	1	571.00	281
570.80			2						2	10	5	3	570.80	303
570.60	1									5	8	7	570.60	324
570.40	1									4	5	4	570.40	338
570.20	1										1	3	570.20	343
570.00												1	570.00	344
569.80											2	4	569.80	350
569.60										1		2	569.60	353
569.40											1	1	569.40	355
569.20	2										1	3	569.20	361
569.00													569.00	361
568.80												2	568.80	363
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	571.39	571.32	571.04	571.54	572.27	572.38	572.62	571.75	571.51	571.09	570.96	570.39
2	570.35	571.32	571.09	572.26	572.22	572.26	572.65	571.72	571.36	571.28	570.69	570.74
3	570.80	571.32	571.04	572.51	572.36	572.35	572.36	571.66	571.15	571.09	570.86	571.09
4	571.07	571.33	571.01	571.97	573.38	572.30	572.19	571.87	571.45	570.74	570.87	569.31
5	571.40	571.29	571.05	572.07	572.48	572.22	572.20	571.80	571.22	570.89	570.85	569.70
6	571.57	571.24	571.06	572.48	572.26	572.39	572.18	571.80	571.12	569.72	570.77	570.57
7	571.48	571.20	571.06	571.98	572.56	572.32	572.13	571.94	571.19	570.60	570.93	570.88
8	571.20	571.27	571.03	572.21	572.41*	572.30	571.84	571.45	571.32	570.75	570.73	570.62
9	569.25	571.24	571.02	572.54	571.90*	572.21	572.06	571.52	571.55	570.98	570.43	569.89
10	569.38	571.23	571.00	572.47	572.24	572.40	571.98	571.88	571.36	570.92	570.80	569.82
11	570.59	571.20	571.04	572.02	572.40	572.29	572.05	571.75	571.12	571.05	570.77	570.46
12	571.19	571.20	571.00	572.11	572.45	572.01	572.16	571.83	571.61	570.81	571.16	570.29
13	571.61	571.25	571.07	571.90	572.64	572.12	571.87	571.73	572.35	571.11	571.02	568.93
14	571.66	571.16	571.01	572.11	572.47	572.22	571.94	571.78	571.23	571.27	570.26	569.55
15	571.08	571.24	571.11	572.19	572.58	572.45	571.91	571.74	571.13	571.02	570.80	569.62
16	571.19	571.21	571.17	572.31	572.52	572.35	572.00	571.35	571.14	571.50	571.16	570.21
17	571.87	571.17	571.14	572.34	572.37	572.19	571.92	571.39	571.52	571.20	570.65	569.32
18	571.34	571.18	571.22	572.82	572.45	572.15	571.95	571.70	571.43	570.71	569.38	570.43
19	571.43	571.16	571.14	572.48	572.37	572.24	571.91	571.35	571.55	570.43	570.50	570.90
20	571.80	571.16	571.44	572.27	572.36	572.33	571.88	571.64	571.37	571.11	571.19	570.78
21	571.32	571.12	571.28	572.26	572.46	571.96	571.82	571.69	571.23	570.85	571.03	568.91
22	571.17	571.08	571.50	572.43	572.52	572.10	571.81	571.56	571.31	570.85	570.80	569.88
23	571.35	571.13	571.59	572.61	572.47	572.17	571.63	571.57	571.52	570.91	570.45	570.47
24	571.35	571.13	572.11	572.43	572.39	572.27	572.02	571.40	571.08	570.88	569.84	570.67
25	571.42	571.08	572.61	572.60	572.42	572.24	571.81	571.64	571.29	570.58	570.50	569.33
26	571.47	571.08	572.00	572.57	572.43	572.05	571.66	571.58	571.25	570.74	571.42	570.06
27	571.24*	571.10	571.71	572.34	572.41	571.97*	571.54	571.80	570.86	570.42	571.14	569.88
28	/	571.10	571.69	572.32	572.48	572.14	571.87	571.13	571.20	570.76	569.54	570.63
29	/		571.79	572.39	572.47	572.09	571.58	571.26	571.36	571.14	570.45	570.95
30	571.19*		571.87	572.44	572.41	572.17	572.03	571.38	570.98	571.00	569.86	570.63
31	571.28		572.04		572.28		571.82	571.56		570.86		570.63
MEAN	571.15	571.20	571.35	572.30	572.43	572.22	571.98	571.62	571.33	570.88	570.66	570.18
MAX.	572.74	571.45	572.99	573.46	573.83	572.96	573.15	572.48	573.01	572.26	572.10	571.99
	0600/26	0500/04	0800/25	1000/18	1700/04	1800/26	1800/01	0900/10	0500/13	0100/14	2400/26	0800/03
MIN.	567.70	570.95	570.31	571.25	571.27	570.87	570.90	570.65	570.20	568.50	566.17	567.52
	2400/09	1700/26	1700/14	0300/07	1800/09	1000/26	1300/29	0800/28	0500/16	1200/06	0300/18	0600/21

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

/ Indicates No Data.

ANNUAL MEAN: 571.44

ANNUAL SUMMARY OF LEVELS, 1978
Station 4020: Gibraltar, Michigan on Detroit River

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	572.56	May	Monthly mean elevation:	570.46	Dec
Daily mean elevation:	573.29	4 May	Daily mean elevation:	569.35	21 Dec
Instant/hourly Elevation:	573.84	1700/4 May	Instant/hourly Elevation:	567.43	0400/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.03	5 Jan
571.71	4 Feb
572.71	25 Mar
572.90	18 Apr
573.29	4 May
572.64	15 Jun
572.77	2 Jul
572.12	7 Aug
572.50	13 Sep
571.67	16 Oct
571.49	26 Nov
571.30	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
569.63	9 Jan
571.34	26 Feb
571.23	14 Mar
571.64	1 Apr
572.16	9 May
572.13	21 Jun
571.80	27 Jul
571.42	17 Aug
571.13	27 Sep
570.16	6 Oct
569.87	18 Nov
569.35	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.
573.20					1								573.20	1
573.00													573.00	1
572.80				1									572.80	2
572.60			1	3	9	1	2						572.60	18
572.40				13	16	13	1		1				572.40	62
572.20				7	4	15	9						572.20	97
572.00	3		4	5	1	1	15	6					572.00	132
571.80	3		3				3	14					571.80	155
571.60	4	7	3	1			1	6	13	1			571.60	191
571.40	11	15	2					4	8	4	1		571.40	236
571.20	3	6	18						7	9	5	1	571.20	285
571.00	1								1	9	10	4	571.00	310
570.80	2									5	5	4	570.80	326
570.60	1									2	4	7	570.60	340
570.40											1	2	570.40	343
570.20	1											2	570.20	346
570.00										1	2	5	570.00	354
569.80											2	2	569.80	358
569.60	2											2	569.60	362
569.40													569.40	362
569.20												2	569.20	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4020: Gibraltar, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	571.78	571.68	571.29	571.64	572.36	572.53	572.75	571.98	571.76	571.34	571.18	570.66
2	570.74	571.69	571.37	572.33	572.33	572.42	572.77	571.95	571.65	571.53	570.93	570.91
3	571.20	571.68	571.31	572.59	572.48	572.48	572.50	571.86	571.39	571.42	571.07	571.30
4	571.59	571.71	571.28	572.08	573.29	572.46	572.36	572.10	571.69	571.07	571.09	569.86
5	572.03	571.64	571.32	572.19	572.55	572.39	572.38	572.02*	571.48	571.35	571.09	570.12
6	572.01	571.57	571.33	572.60	572.39	572.58	572.37	/	571.39	570.16	570.94	570.78
7	571.85	571.48	571.31	572.11	572.66	572.51	572.34	572.12	571.45	570.86	571.11	571.06
8	571.44	571.57	571.28	572.30	572.63	572.45	572.04	571.73	571.55	570.99	571.03	570.78
9	569.63	571.59	571.27	572.62	572.16	572.36	572.27	571.78	571.78	571.27	570.76	570.17
10	569.70	571.54	571.27	572.58	572.39	572.57	572.14	572.07	571.65	571.20	571.03	570.14
11	570.90	571.53	571.27	572.17	572.55	572.49	572.22	571.98	571.40	571.35	570.95	570.74
12	571.48	571.55	571.23	572.27	572.65	572.22	572.36	572.06	571.78	571.08	571.26	570.59
13	571.82	571.59	571.29	572.02	572.80	572.25	572.13	571.96	572.50	571.31	571.23	569.40
14	571.77	571.57	571.23	572.22	572.59	572.40	572.16	571.99	571.62	571.45	570.52	569.99
15	571.27	571.70	571.30	572.29	572.68	572.64	572.14	571.99	571.38	571.28	571.01	570.04
16	571.41	571.61	571.35	572.44	572.62	572.53	572.18	571.68	571.40	571.67	571.30	570.48
17	572.02	571.58	571.34	572.46	572.48	572.40	572.12	571.42*	571.78	571.42	571.14	569.65
18	571.52	571.59	571.45	572.90	572.60	572.34	572.18	571.98*	571.66	571.02	569.87	570.62
19	571.57	571.52	571.33	572.59	572.50	572.40	572.13	571.60	571.77	570.73	570.75	571.03
20	571.93	571.48	571.62	572.35	572.50	572.51	572.10	571.87	571.62	571.35	571.30	571.01
21	571.48	571.42	571.44	572.34	572.56	572.13	572.05	571.89*	571.46	571.14	571.17	569.35
22	571.38	571.37	571.66	572.55	572.66	572.26	572.04	571.86*	571.50	571.12	570.97	570.24
23	571.54	571.40	571.73	572.71	572.60	572.33	571.85	571.82	571.76	571.09	570.74	570.70
24	571.54	571.41	572.18	572.51	572.52	572.44	572.22	571.65	571.34	571.17	570.11	570.87
25	571.59	571.35	572.71	572.64	572.58*	572.44	572.04	571.84	571.49	570.95	570.70	569.66
26	570.89	571.34	572.12	572.60	572.56	572.36	571.92	571.83	571.53	570.99	571.49	570.32
27	570.37	571.38	571.83	572.48	572.55	572.21	571.80	572.06	571.13	570.76	571.30	570.11
28	571.29	571.37	571.85	572.49	572.63	572.32	572.09	571.46	571.42	570.99	569.94	570.71*
29	571.63		571.91	572.52	572.63	572.27	571.84	571.50	571.62	571.33	570.84	571.11*
30	571.58		572.01	572.54	572.57	572.33	572.21	571.63	571.28	571.26	570.17	570.91
31	571.62		572.19		572.43		572.04	571.78		571.09		570.84
MEAN	571.37	571.53	571.55	572.40	572.56	572.40	572.19	571.85	571.57	571.15	570.90	570.46
MAX.	573.13	571.85	573.05	573.59	573.84	573.43	573.34	572.66	573.05	572.26	572.31	572.25
	0800/26	0300/15	0700/25	1000/18	1700/04	1300/27	1900/01	1000/10	0500/13	1300/16	1200/17	0800/03
MIN.	568.35	571.21	570.57	571.35	571.44	571.34	571.22	570.96	570.57	568.97	567.43	568.19
	2300/09	1700/26	1700/14	1700/01	1800/09	1300/26	1200/29	1600/29	0500/16	1300/06	0400/18	0700/21

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

ANNUAL MEAN: 571.66

ANNUAL SUMMARY OF LEVELS, 1978
Station 4030: Wyandotte, Michigan on Detroit River

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	573.56	May	Monthly mean elevation:	571.95	Dec
Daily mean elevation:	574.02	4 May	Daily mean elevation:	571.31	21 Dec
Instant/hourly Elevation:	574.28	1700/4 May	Instant/hourly Elevation:	570.63	0300/18 Nov

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
573.63	6 Jan
573.32	13 Feb
573.71	25 Mar
573.79	18 Apr
574.02	4 May
573.60	15 Jun
573.74	2 Jul
573.27	7 Aug
573.48	13 Sep
573.00	16 Oct
572.71	27 Nov
572.52	3 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
572.08	10 Jan
572.89	22 Feb
572.61	19 Mar
572.82	1 Apr
573.18	9 May
573.34	21 Jun
573.06	27 Jul
572.78	28 Aug
572.63	27 Sep
571.95	6 Oct
571.70	28 Nov
571.31	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.
574.00					1								574.00	1
573.80													573.80	1
573.60	3		1	3	8		2						573.60	18
573.40				18	18	24	6		1				573.40	85
573.20	4	3	2	8	3	6	17	4					573.20	132
573.00	6	16	9		1		6	19	4				573.00	193
572.80	8	9	11	1				7	16	3			572.80	248
572.60	7		8					1	9	10	2		572.60	285
572.40	1									13	10	1	572.40	310
572.20	1									4	9	6	572.20	330
572.00	1										5	10	572.00	346
571.80										1	1	3	571.80	351
571.60											3	4	571.60	358
571.40												5	571.40	363
571.20												2	571.20	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4030: Wyandotte, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	573.61	573.16	573.03	572.82	573.40	573.57	573.68	573.16	572.99	572.69	572.55	572.09
2	572.90	573.15	573.02	573.35	573.39	573.48	573.74	573.14	572.90	572.81	572.37	572.26
3	572.81	573.19	573.02	573.45	573.47	573.52	573.58	573.14	572.80	572.78*	572.47	572.52
4	573.07	573.18	572.87	573.21	574.02	573.51	573.47	573.22	572.95	572.50	572.45	571.59
5	573.62	573.11*	572.85	573.35	573.60	573.44	573.47	573.19	572.83	572.68	572.43	571.75
6	573.63	573.14	572.90	573.60	573.42	573.54	573.43	573.20	572.77	571.95	572.38	572.17
7	573.39	573.19	572.97	573.33	573.56	573.51	573.42	573.27	572.79	572.38	572.51	572.38
8	573.23	573.14	573.00	573.51	573.54	573.52	573.22	572.99	572.84	572.47	572.38	572.23
9	572.26	573.20	572.93	573.66	573.18	573.44	573.37	573.03	572.99	572.62	572.19	571.90
10	572.08	573.27	572.94	573.61	573.38	573.56	573.32	573.25	572.91	572.58	572.39	571.78
11	572.59	573.17	572.91	573.31	573.45	573.45	573.37	573.19	572.72	572.67	572.35	572.13
12	572.90	573.22	572.83	573.36	573.51	573.35	573.42	573.21	573.03	572.50	572.57	572.03
13	573.13	573.32	572.75	573.21	573.68	573.39	573.27	573.15	573.48	572.69	572.49	571.39
14	573.07	573.19	572.61	573.37	573.60	573.50	573.32	573.17	572.91	572.83	572.04	571.57
15	572.70	573.20	572.64	573.43	573.68	573.60	573.29	573.14	572.69	572.67	572.38	571.57
16	572.79	573.13	572.66	573.52	573.66	573.54	573.34	572.89	572.80	573.00	572.56	571.93
17	573.09	573.08	572.67	573.52	573.57	573.46	573.28	572.92	573.01	572.76	572.34	571.49
18	572.83	573.07	572.69	573.79	573.62	573.39	573.22*	573.12	572.95	572.50	571.70	572.04
19	572.90	573.00	572.61	573.56	573.55	573.48	573.13	572.91	573.01	572.36	572.20	572.32
20	573.02	572.95	572.83	573.44	573.52	573.53	573.24	573.10	572.92	572.65	572.53	572.27
21	572.63	572.92	572.78	573.44	573.64	573.34	573.22	573.11	572.85	572.52	572.52	571.31
22	572.65	572.89	572.97	573.55	573.66	573.39	573.19	573.06	572.90	572.52	572.37	571.70
23	572.72	572.96	573.08	573.60	573.60	573.46	573.10	573.04	573.02	572.57	572.24	572.03
24	572.76	572.99	573.32	573.50	573.58	573.50	573.33	572.94	572.79	572.54	571.83	572.18
25	572.91	572.99	573.71	573.60	573.58	573.48	573.22	573.08	572.87	572.35	572.16	571.47
26	572.99	573.00	573.28	573.59	573.57	573.46	573.14	573.07	572.85	572.47	572.68	571.85
27	572.70	573.00	573.10	573.47	573.58	573.35	573.06	573.18	572.63	572.27	572.71	571.70
28	572.91	573.03	573.07	573.45	573.62	573.46	573.25	572.78	572.81	572.48	571.70	572.11
29	573.14		573.08	573.50	573.62	573.42	573.10	572.82	572.89	572.64	572.12	572.33
30	573.31		573.08	573.52	573.58	573.47	573.36	572.93	572.69	572.58	571.79	572.14
31	573.24		573.19		573.51		573.23	573.02		572.50		572.17
MEAN	572.95	573.10	572.95	573.45	573.56	573.47	573.32	573.08	572.89	572.57	572.31	571.95
MAX.	573.88	573.42	573.89	574.19	574.28	573.88	573.98	573.53	573.84	573.30	573.13	572.98
	0800/26	2300/09	0800/25	1100/18	1700/04	2100/26	2000/01	1100/10	0600/13	0200/14	0700/27	0800/03
MIN.	571.59	572.83	572.31	572.56	572.83	572.83	572.75	572.54	572.40	571.51	570.63	570.81
	2300/09	1500/22	1800/14	1300/01	1900/09	1100/18	1400/29	0900/28	0600/16	1600/06	0300/18	0600/21

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

ANNUAL MEAN: 572.97

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	573.90	May	Monthly mean elevation:	572.41	Dec
Daily mean elevation:	574.34	6 Jan	Daily mean elevation:	571.89	21 Dec
Instant/hourly Elevation:	574.46	1100/18 Apr	Instant/hourly Elevation:	571.43	2300/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
574.34	6 Jan
573.99	8 Feb
574.02	25 Mar
574.10	18 Apr
574.23	4 May
573.94	15 Jun
574.07	2 Jul
573.65	7 Aug
573.82	13 Sep
573.43	16 Oct
573.11	27 Nov
572.91	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
572.89	10 Jan
573.49	28 Feb
573.03	14 Mar
573.22	1 Apr
573.55	9 May
573.76	27 Jun
573.48	27 Jul
573.21	28 Aug
573.12	27 Sep
572.52	6 Oct
572.24	28 Nov
571.89	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.
574.20	2				1								574.20	3
574.00	3		1	2	1		2						574.00	12
573.80	13	13		16	23	24	3		1				573.80	105
573.60	6	3	2	10	5	6	20	4					573.60	161
573.40	4	12	12	1	1		4	20	4	1			573.40	220
573.20	1		9	1				7	20	2			573.20	260
573.00	1		7						5	13	2		573.00	288
572.80	1									13	17	1	572.80	320
572.60										1	5	8	572.60	334
572.40										1	2	8	572.40	345
572.20											4	5	572.20	354
572.00												7	572.00	361
571.80												2	571.80	363

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	574.00	573.85	573.46	573.22	573.75	573.93	574.01	573.59	573.40	573.17	572.99	572.55
2	573.65	573.86	573.44	573.69	573.76	573.85	574.07	573.55	573.31	573.24	572.85	572.69
3	573.92	573.85	573.42	573.74	573.81*	573.88	573.96	573.55	573.25	573.18	572.93	572.91
4	574.07	573.85	573.35	573.59	574.23	573.88	573.84	573.61	573.35	573.00	572.91	572.10
5	574.23	573.87	573.40	573.75	573.95	573.82	573.84	573.59	573.27	573.12	572.88	572.25
6	574.34	573.85	573.47	574.00	573.77	573.89	573.80	573.60	573.20	572.52	572.83	572.62
7	574.15	573.95	573.47	573.76	573.86	573.87	573.79	573.65	573.23	572.88	572.96	572.79
8	573.81	573.99	573.42	573.93	573.87	573.89	573.62	573.41	573.28	572.95	572.81	572.68
9	573.02	573.90	573.37	574.02	573.55	573.83	573.74	573.46	573.38	573.08	572.68	572.40
10	572.89	573.88	573.34	573.97	573.72	573.89	573.71	573.64	573.33	573.06	572.83	572.31
11	573.29	573.84	573.30	573.68	573.78	573.82	573.77	573.60	573.17	573.11	572.81	572.59
12	573.48	573.81	573.23	573.76	573.81	573.76	573.76	573.61	573.42	572.98	572.97	572.49
13	573.67	573.82	573.15	573.63	573.98	573.78	573.68	573.56	573.82	573.15	572.89	571.96
14	573.75	573.70	573.03	573.77	573.95	573.87	573.70	573.56	573.28	573.26	572.55	572.08
15	573.56	573.64	573.05	573.83	574.00	573.94	573.68	573.52	573.13	573.15	572.82	572.09
16	573.58	573.61	573.09	573.89	574.02	573.90	573.72	573.29	573.25	573.43	572.98	572.37
17	573.82	573.55	573.08	573.88	573.94	573.83	573.68	573.35	573.41	573.19	572.75	572.05
18	573.68	573.58	573.12	574.10	573.98	573.78	573.66	573.50	573.38	572.99	572.24	572.49
19	573.81	573.56	573.05	573.88	573.91	573.85	573.62	573.33	573.41	572.87	572.66	572.70
20	574.05	573.54	573.23	573.80	573.90	573.88	573.63	573.49	573.34	573.08	572.94	572.65
21	574.00	573.50	573.22	573.82	574.00	573.76	573.63	573.50	573.31	572.98	572.94	571.89
22	573.94	573.52	573.40	573.90	574.00	573.78	573.60	573.46	573.34	572.98	572.81	572.18
23	573.90	573.50	573.50	573.96	573.97	573.84	573.52	573.44	573.45	573.03	572.71	572.45
24	573.85	573.51	573.69	573.86	573.94	573.87	573.70	573.37	573.27	572.99	572.36	572.59
25	573.84	573.49	574.02	573.94	573.94	573.82	573.61	573.48	573.33	572.83	572.63	572.01
26	573.75	573.50	573.69	573.92	573.92	573.86	573.56	573.46	573.30	572.95	573.10	572.32
27	573.58	573.50	573.53	573.83	573.93	573.76	573.48	573.55	573.12	572.79	573.11	572.20
28	573.75	573.49	573.48	573.80	573.95	573.84	573.62*	573.21	573.26	572.95	572.24	572.55
29	573.82		573.47	573.84	573.94	573.81	/	573.25	573.31	573.07	572.56	572.71
30	573.81		573.45	573.85	573.94	573.86	/	573.35	573.16	573.02	572.30	572.58
31	573.82		573.53		573.87		573.62*	573.44		572.95		572.61
MEAN	573.77	573.70	573.37	573.82	573.90	573.84	573.71	573.48	573.32	573.03	572.77	572.41
MAX.	574.41	574.06	574.18	574.46	574.44	574.20	574.26	573.84	574.10	573.65	573.52	573.31
	0800/06	1100/08	1300/25	1100/18	2200/04	2200/26	2100/01	1100/10	0600/13	0200/14	0400/27	0900/03
MIN.	571.99	572.73	572.80	572.77	573.21	573.35	573.24	573.04	572.96	572.18	571.43	571.53
	0400/10	0200/23	1800/14	1500/11	2000/09	0900/26	0800/23	0800/28	0400/15	1100/06	2300/17	0600/21

ANNUAL MEAN: 573.43

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

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	574.61	May	Monthly mean elevation:	573.32	Dec
Daily mean elevation:	574.88	6 Jan	Daily mean elevation:	572.98	21 Dec
Instant/hourly Elevation:	575.06	1400/6 Apr	Instant/hourly Elevation:	572.39	2300/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
574.88	6 Jan
574.53	8 Feb
574.74	25 Mar
574.78	6 Apr
574.77	4 May
574.64	30 Jun
574.75	2 Jul
574.42	10 Aug
574.44	13 Sep
574.26	16 Oct
573.90	27 Nov
573.68	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
574.11	16 Jan
574.18	28 Feb
573.83	14 Mar
574.08	1 Apr
574.28	9 May
574.50	12 Jun
574.36	23 Jul
574.06	28 Aug
573.96	15 Sep
573.57	6 Oct
573.27	28 Nov
572.98	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.
574.80	1												574.80	1
574.60	6		1	12	20	5	4						574.60	49
574.40	9	14	4	17	10	25	21	2	1				574.40	152
574.20	9	9	5		1		6	23	6	1			574.20	212
574.00	6	5	13	1				6	22	7			574.00	272
573.80			8						1	20	6		573.80	307
573.60										2	14	2	573.60	325
573.40										1	5	11	573.40	342
573.20											5	8	573.20	355
573.00												9	573.00	364
572.80												1	572.80	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	574.72	574.43	574.17	574.08	574.51	574.62	574.69	574.39	574.19	574.05	573.86	573.43
2	574.48	574.44	574.16	574.43	574.52	574.58	574.75	574.33	574.12	574.09	573.77	573.56
3	574.61	574.44	574.14	574.48	574.52	574.61	574.69	574.38	574.15	574.02	573.81	573.68
4	574.70	574.44	574.09	574.48	574.77	574.58	574.62	574.37	574.16	573.91	573.79	573.08
5	574.78	574.44	574.11	574.58	574.63	574.58	574.59	574.37	574.13	573.91	573.72	573.20
6	574.88	574.43	574.17	574.78	574.52	574.57	574.54	574.38	574.08	573.57	573.75	573.47
7	574.80	574.48	574.16	574.65	574.54	574.59	574.53	574.42	574.09	573.83	573.85	573.62
8	574.62	574.53	574.15	574.77	574.52	574.62	574.45	574.26	574.09	573.89	573.66	573.58
9	574.29	574.51	574.10	574.76	574.28	574.59	574.50	574.29	574.16	573.92	573.59	573.41
10	574.16	574.48	574.07	574.69	574.46	574.57	574.55	574.42	574.11	573.95	573.70	573.30
11	574.25	574.48	574.03	574.52	574.45	574.52	574.55	574.39	574.01	573.93	573.72	573.43
12	574.19	574.47	573.98	574.55	574.43	574.50	574.50	574.38	574.22	573.88	573.84	573.36
13	574.19	574.48	573.92	574.48	574.61	574.59	574.43	574.35	574.44	574.06	573.71	573.06
14	574.25	574.42	573.83	574.60	574.65	574.60	574.49	574.35	574.05	574.11	573.51	573.03
15	574.15	574.34	573.90	574.65	574.73	574.64	574.48	574.28	573.96	574.04	573.69	573.03
16	574.11	574.28	573.93	574.65	574.76	574.59	574.52	574.10	574.11	574.26	573.80	573.25
17	574.20	574.25	573.94	574.63	574.72	574.55	574.47	574.23	574.18	574.05	573.45	573.10
18	574.24	574.24	573.92	574.74	574.70	574.53	574.42	574.27	574.21	573.90	573.30	573.37
19	574.26	574.23	573.91	574.59	574.66	574.59	574.39	574.19	574.21	573.85	573.52	573.52
20	574.41	574.22	574.01	574.57	574.64	574.59	574.41	574.30	574.17	573.91	573.77	573.43
21	574.44	574.22	574.09	574.60	574.76	574.57	574.42	574.28	574.19	573.85	573.78	572.98
22	574.44	574.21	574.28	574.60	574.71	574.55	574.38	574.26	574.22	573.86	573.68	573.07
23	574.42	574.22	574.41	574.63	574.70	574.59	574.36	574.22	574.23	573.97	573.61	573.30
24	574.35	574.20	574.59	574.59	574.68	574.57	574.45	574.20	574.16	573.85	573.37	573.40
25	574.34	574.19	574.74	574.64	574.67	574.57	574.40	574.28	574.22	573.68	573.55	573.05
26	574.45	574.19	574.57	574.64	574.66	574.54	574.37*	574.26	574.12	573.88	573.89	573.23
27	574.37	574.19	574.50	574.58	574.65	574.57	574.41*	574.28	574.04	573.72	573.90	573.16
28	574.39	574.18	574.37	574.53	574.63	574.60	574.43	574.06	574.14	573.88	573.27	573.37
29	574.42		574.31	574.58	574.61	574.59	574.37	574.13	574.13	573.92	573.32	573.47
30	574.41		574.21	574.57	574.60	574.64	574.50	574.16	574.03	573.85	573.28	573.42
31	574.41		574.26		574.62		574.41	574.25		573.86		573.50
MEAN	574.41	574.34	574.16	574.59	574.61	574.58	574.49	574.28	574.14	573.92	573.65	573.32
MAX.	574.94	574.57	574.90	575.06	575.05	574.93	574.92	574.53	574.63	574.56	574.24	573.87
	1600/06	1100/08	1700/25	1400/06	1200/04	1000/08	1900/02	0200/10	1300/13	0800/16	0500/27	0700/03
MIN.	573.93	574.17	573.76	573.78	574.03	573.97	574.16	573.87	573.73	573.38	572.39	572.70
	2100/09	2400/28	1800/14	1300/01	1200/09	0700/26	0900/29	1400/16	0100/16	0900/06	2300/17	0300/21

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

ANNUAL MEAN: 574.21

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	574.76	May
Daily mean elevation:	575.00	6 Jan
Instant/hourly Elevation:	575.24	1400/6 Apr

LOWEST		
Monthly mean elevation:	573.61	Dec
Daily mean elevation:	573.35	25 Dec
Instant/hourly Elevation:	573.10	1100/13 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
575.00	6 Jan
574.69	8 Feb
574.90	25 Mar
574.93	6 Apr
574.89	16 May
574.80	15 Jun
574.86	2 Jul
574.58	1 Aug
574.53	13 Sep
574.36	16 Oct
574.05	1 Nov
573.91	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
574.27	17 Jan
574.40	28 Feb
574.10	14 Mar
574.29	1 Apr
574.52	9 May
574.69	12 Jun
574.53	27 Jul
574.31	29 Aug
574.21	15 Sep
573.88	6 Oct
573.58	30 Nov
573.35	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.
574.80	7		2	8	12		3						574.80	32
574.60	4	9	4	20	18	30	16						574.60	133
574.40	12	17	4	1	1		12	25	3				574.40	208
574.20	8	2	13	1				6	27	8			574.20	273
574.00			8							22	7		574.00	310
573.80										1	15	3	573.80	329
573.60											7	14	573.60	350
573.40											1	11	573.40	362
573.20												3	573.20	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	574.91	574.59	574.37	574.29	574.63	574.78	574.82	574.58	574.39	574.24	574.05	573.70
2	574.80	574.61	574.36	574.56	574.65	574.74	574.86	574.54	574.35	574.29	574.01	573.77
3	574.82	574.61	574.34	574.74	574.66	574.77	574.81	574.53	574.32	574.25	574.02	573.91
4	574.88	574.59	574.35	574.71	574.81	574.74	574.76	574.54	574.34	574.16	574.01	573.52
5	574.91	574.58	574.38	574.77	574.76	574.74	574.74	574.56	574.33	574.19	573.98	573.59
6	575.00	574.60	574.38	574.93	574.68	574.75	574.72	574.54	574.27	573.88	573.94	573.72
7	574.98	574.65	574.36	574.83	574.68	574.75	574.71	574.56	574.29	574.02	574.02	573.84
8	574.86	574.69	574.33	574.90	574.69	574.77	574.62	574.49	574.30	574.08	573.93	573.77
9	574.68	574.67	574.30	574.92	574.52	574.75	574.67	574.51	574.34	574.17	573.88	573.66
10	574.56	574.66	574.26	574.86	574.62	574.76	574.67	574.57	574.33	574.17	573.94	573.62
11	574.54	574.66	574.22	574.72	574.62	574.73	574.69	574.57	574.23	574.18	573.92	573.74
12	574.39	574.66	574.18	574.77	574.68	574.69	574.69	574.54	574.36	574.12	573.98	573.69
13	574.32	574.65	574.13	574.69	574.79	574.73	574.64	574.51	574.53	574.23	573.93	573.42
14	574.35	574.59	574.10	574.78	574.79	574.77	574.65	574.51	574.30	574.24	573.78	573.45
15	574.33	574.54	574.15	574.81	574.87	574.80	574.63	574.50	574.21	574.24	573.91	573.45
16	574.28	574.48	574.18	574.81	574.89	574.78	574.66	574.37	574.30	574.36	573.98	573.53
17	574.27	574.44	574.20	574.78	574.86	574.74	574.63	574.42	574.36	574.25	573.85	573.39
18	574.36	574.41	574.20	574.87	574.86	574.71	574.60	574.46	574.41	574.16	573.67	573.60
19	574.37	574.42	574.16	574.73	574.84	574.74	574.57	574.37	574.38	574.09	573.77	573.72
20	574.46	574.41	574.22	574.70	574.81	574.75	574.58	574.45	574.36	574.14	573.94	573.70
21	574.57	574.40	574.36	574.74	574.87	574.72	574.59	574.46	574.36	574.12	573.97	573.36
22	574.60	574.42	574.53	574.76	574.84	574.70	574.57	574.45	574.39	574.10	573.89	573.43
23	574.56	574.43	574.62	574.77	574.84	574.74	574.54	574.43	574.43	574.10	573.88	573.56
24	574.50	574.41	574.78	574.74	574.83	574.73	574.61	574.39	574.36	574.11	573.67	573.64
25	574.47	574.41	574.90	574.76	574.81	574.74	574.60	574.43	574.38	574.03	573.80	573.35
26	574.67	574.42	574.87	574.75	574.80	574.76	574.56	574.42	574.35	574.08	574.02	573.49
27	574.62	574.42	574.77	574.72	574.78	574.75	574.53	574.48	574.26	574.02	574.01	573.43
28	574.57	574.40	574.65	574.69	574.77	574.77	574.59	574.31	574.32	574.06	573.61	573.61
29	574.59		574.58	574.70	574.76	574.74	574.55	574.31	574.34	574.11	573.64	573.76
30	574.59		574.47	574.68	574.75	574.75	574.65	574.36	574.25	574.08	573.58	573.74
31	574.58		574.42		574.76		574.60	574.41		574.05		573.81
MEAN	574.59	574.53	574.39	574.75	574.76	574.75	574.65	574.47	574.34	574.14	573.89	573.61
MAX.	575.08	574.70	574.99	575.24	575.14	574.94	574.91	574.68	574.80	574.57	574.27	574.13
	0900/01	1500/08	1600/25	1400/06	0800/13	1000/08	1900/01	0800/16	1300/13	0800/16	0600/27	0600/03
MIN.	574.23	574.37	574.07	574.10	574.29	574.51	574.35	574.16	573.99	573.72	573.17	573.10
	0400/17	2300/28	0100/14	1500/01	1100/09	2000/01	2000/26	1600/19	0100/16	1600/06	2200/17	1100/13

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

/ Indicates No Data.

ANNUAL MEAN: 574.41

ANNUAL SUMMARY OF LEVELS, 1978
Station 4070: Algonac, Michigan on St. Clair River

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	575.49	Jan
Daily mean elevation:	575.79	12 Jan
Instant/hourly Elevation:	576.13	2015/11 Jan

LOWEST		
Monthly mean elevation:	574.36	Dec
Daily mean elevation:	574.18	24 Dec
Instant/hourly Elevation:	573.94	2007/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
575.79	12 Jan
575.55	3 Feb
575.65	30 Mar
575.30	13 Apr
575.27	20 May
575.36	26 Jun
575.25	2 Jul
575.16	16 Aug
574.98	24 Sep
574.95	6 Oct
574.69	2 Nov
574.62	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
575.24	24 Jan
574.91	28 Feb
574.60	14 Mar
574.85	2 Apr
575.00	4 May
575.14	20 Jun
575.08	20 Jul
574.94	31 Aug
574.82	13 Sep
574.63	30 Oct
574.27	27 Nov
574.18	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.
575.60	6		1										575.60	7
575.40	8	12	1										575.40	28
575.20	10	7	3	7	14	17	5						575.20	91
575.00		5	4	19	16	13	26	24					575.00	198
574.80		4	10	4	1			7	30	14			574.80	268
574.60			11							17	9	1	574.60	306
574.40			1								18	10	574.40	335
574.20											3	18	574.20	356
574.00												2	574.00	358

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4070: Algonac, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	575.30	575.48*	574.92	574.96	575.05	575.21	575.22	575.10	574.95	574.85	574.67	574.39
2	575.38	575.55*	574.93	574.85	575.07	575.19	575.25	575.11	574.91	574.86	574.69	574.38
3	575.34	575.55	574.91	574.90	575.05	575.19	575.23	575.09	574.90	574.88	574.63	574.43
4	575.35	575.44	574.93	575.01	575.00	575.20	575.23	575.08	574.91	574.90	574.63	574.62
5	575.40	575.40	574.93	575.19	575.09	575.19	575.21	575.10	574.91	574.95	574.62	574.52
6	575.38	575.45*	574.91	575.19	575.08	575.21	575.19	575.07	574.91	574.95	574.59	574.36
7	575.30	575.47	574.89	575.26	575.05	575.20	575.19	575.07	574.90	574.80	574.61	574.34
8	575.30	575.46	574.84	575.24	575.07	575.20	575.19	575.13	574.87	574.82	574.67	574.37
9	575.44	575.48	574.80	575.20	575.18	575.21	575.16	575.11	574.89	574.83	574.66	574.46
10	575.54	575.51	574.78	575.18	575.10	575.22	575.16	575.09	574.86	574.81	574.55	574.48
11	575.78	575.49	574.71	575.28	575.07	575.24	575.16	575.10	574.91	574.80	574.48	574.44
12	575.79	575.46	574.69	575.29	575.15	575.26	575.15	575.08	574.86	574.81	574.44	574.42
13	575.64	575.41	574.61	575.30	575.14	575.23	575.16	575.06	574.82	574.79	574.45	574.51
14	575.70	575.32	574.60	575.22	575.17	575.26	575.14	575.04	574.88	574.78	574.55	574.54
15	575.47	575.24	574.66	575.21	575.21	575.25	575.13	575.05	574.92	574.81	574.52	574.44
16	575.43*	575.21	574.66	575.19	575.27	575.21	575.11	575.16	574.90	574.74	574.45	574.28
17	/	575.20	574.68	575.12	575.27	575.20	575.08	575.07	574.93	574.81	574.65	574.34
18	/	575.26	574.66	575.09	575.27	575.18	575.08	575.02	574.95	574.85	574.54	574.24
19	/	575.24	574.69	575.08	575.26	575.14	575.08	575.04	574.92	574.80	574.49	574.19
20	/	575.18	574.65	575.11	575.27	575.14	575.08	575.01	574.95	574.75	574.46	574.27
21	/	575.21	574.81	575.13	575.22	575.17	575.11	575.01	574.97	574.76	574.43	574.46
22	/	575.14	574.94	575.14	575.25	575.19	575.14	575.01	574.96	574.74	574.45	574.39
23	/	575.07	575.04	575.12	575.25	575.20	575.16	575.02	574.98	574.70	574.54	574.25
24	575.24*	575.01	575.13	575.10	575.24	575.21	575.13	575.00	574.98	574.80	574.53	574.18
25	575.37	575.00	575.14	575.07	575.23	575.22	575.13	574.97	574.94	574.86	574.46	574.30
26	575.70	574.97	575.24	575.08	575.22	575.36	575.12	574.98	574.95	574.72	574.35	574.23
27	575.67	574.94	575.28	575.07	575.21	575.29	575.15	574.97	574.95	574.76	574.27	574.24
28	575.60	574.91	575.36	575.06	575.19	575.26	575.13	575.03	574.89	574.68	574.41	574.21
29	575.59		575.55	575.01	575.18	575.24	575.19	574.98	574.89	574.68	574.42	574.23
30	575.53		575.65	575.00	575.20	575.21	575.10	574.96	574.86	574.63	574.37	574.24
31	575.50		575.14		575.21		575.11	574.94		574.65		574.35
MEAN	575.49	575.29	574.93	575.12	575.17	575.22	575.15	575.05	574.91	574.79	574.52	574.36
MAX.	576.13	575.61	575.89	575.52	575.50	576.03	575.43	575.50	575.22	575.30	575.28	574.89
	2015/11	1233/02	0330/30	1625/12	1905/20	0733/26	0307/29	1330/16	1658/14	1605/05	2120/17	2137/04
MIN.	575.05	574.88	574.46	574.73	574.71	574.75	574.80	574.76	574.62	574.42	574.07	573.94
	0015/08	2050/28	0600/14	0643/03	1930/08	0510/18	1942/26	2042/19	2049/10	2052/29	2345/26	2007/24

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

ANNUAL MEAN: 575.00

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	576.85	Jan	Monthly mean elevation:	575.85	Dec
Daily mean elevation:	577.48	14 Jan	Daily mean elevation:	575.58	30 Dec
Instant/hourly Elevation:	577.59	0100/14 Jan	Instant/hourly Elevation:	575.33	2100/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.48	14 Jan
576.92	7 Feb
576.60	29 Mar
576.44	21 Apr
576.56	21 May
576.66	13 Jun
576.65	10 Jul
576.58	9 Aug
576.58	21 Sep
576.51	7 Oct
576.25	2 Nov
576.03	13 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
576.26	7 Jan
576.04	28 Feb
575.79	13 Mar
576.01	3 Apr
576.22	11 May
576.42	16 Jun
576.42	19 Jul
576.35	27 Aug
576.11	14 Sep
576.02	30 Oct
575.80	27 Nov
575.58	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.
577.40	1												577.40	1
577.20	3												577.20	4
577.00	8												577.00	12
576.80	6	1											576.80	19
576.60	5	6				1	3						576.60	34
576.40	3	6	3	6	19	29	28	27	13	5			576.40	173
576.20	5	9	3	21	12			4	15	25	2		576.20	269
576.00		6	13	3					2	1	17	4	576.00	315
575.80			11								10	19	575.80	355
575.60			1								1	5	575.60	362
575.40												3	575.40	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	576.39	576.73	576.07	576.12	576.44	576.46	576.49	576.53	576.42	576.43	576.14	575.98
2	576.40	576.69	576.04	576.20	576.37	576.56*	576.52	576.48	576.39	576.36	576.25	575.97
3	576.49	576.66	576.04	576.01	576.32	576.48	576.56	576.56	576.49	576.27	576.11	575.81
4	576.34	576.56	576.08	576.23	576.23	576.48	576.58	576.52	576.42	576.37	576.13	575.89
5	576.46	576.58	576.07	576.33	576.31	576.50	576.54	576.52	576.44	576.35	576.05	576.01
6	576.37	576.74	576.01	576.23	576.35	576.44	576.48	576.50	576.36	576.42	576.19	575.97
7	576.26	576.92	576.02	576.32	576.30	576.44	576.49	576.47	576.42	576.51	576.18	575.88
8	576.47	576.75	575.96	576.43	576.22	576.55	576.54	576.49	576.32	576.42	576.05	575.95
9	576.73	576.63	575.93	576.29	576.35	576.56	576.53	576.58	576.35	576.34	576.23	576.03
10	576.98	576.55	575.96	576.21	576.37	576.48	576.65	576.53	576.21	576.32	576.03	576.03
11	576.85	576.49	575.87	576.35	576.22	576.49	576.57	576.51	576.33	576.26	576.03	575.89
12	577.18	576.48	575.90	576.41	576.31	576.55	576.51	576.45	576.35	576.34	576.01	575.83
13	577.28	576.41	575.79	576.41	576.35	576.66	576.51	576.45	576.12	576.43	575.84*	576.03
14	577.48	576.33	575.82	576.43	576.44	576.58	576.51	576.43	576.11	576.39	576.09	575.96
15	577.25	576.24	575.95	576.42	576.52	576.51	576.51	576.39	576.36	576.36	576.13	575.85
16	577.16	576.24	575.90	576.38	576.54	576.42	576.57	576.44	576.42	576.31	576.00	575.81
17	577.23	576.23	575.93	576.31	576.56	576.48	576.48	576.55	576.37	576.29	575.89	575.98
18	577.12	576.31	575.85	576.23	576.51	576.60	576.42	576.39	576.35	576.35	575.99	575.86
19	577.09	576.32	576.03	576.23	576.52	576.51	576.42	576.48	576.34	576.35	576.14	575.73
20	577.10	576.28	575.92	576.39	576.55	576.49	576.48	576.54	576.39	576.29	576.05	575.61
21	577.07	576.32	576.04	576.44	576.56	576.59	576.47	576.42	576.58	576.23	575.93	575.87
22	576.94	576.24	576.17	576.36	576.51	576.56	576.50	576.45	576.53	576.29	575.96	575.76
23	576.74	576.15	576.32	576.32	576.52	576.56	576.55	576.39	576.47	576.40	575.96	575.81
24	576.67	576.14	576.43	576.33	576.51	576.51	576.54	576.44	576.52	576.23	576.11	575.58
25	576.92	576.15	576.18	576.37	576.49	576.46	576.50	576.43	576.55	576.29	576.09	575.81
26	577.10	576.14	576.20	576.32	576.49	576.56	576.52	576.43	576.37	576.33	575.92	575.79
27	577.02	576.09	576.28	576.34	576.47	576.60	576.62	576.35	576.55	576.28	575.80	575.81
28	576.96	576.04	576.36	576.34	576.43	576.57	576.58	576.41	576.43	576.35	575.89	575.78
29	576.90		576.60	576.32	576.43	576.57	576.61	576.46	576.40	576.23	575.81	575.58
30	576.79		576.57	576.32	576.44	576.57	576.55	576.45	576.31	576.02	576.04	575.58
31	576.68		576.17		576.51		576.51	576.41		576.28		575.84
MEAN	576.85	576.41	576.08	576.31	576.42	576.53	576.53	576.47	576.39	576.33	576.03	575.85
MAX.	577.59	577.00	576.95	576.68	576.85	577.06	577.03	576.98	576.85	576.62	576.43	576.34
	0100/14	0900/07	2200/23	0200/08	2000/20	0900/26	1700/29	1600/19	1800/27	2100/07	0500/30	2100/13
MIN.	576.06	575.97	575.33	575.63	576.00	576.23	576.22	576.04	575.92	575.90	575.50	575.38
	0800/04	2000/28	2100/18	0700/03	1500/04	2000/25	2400/26	0900/16	0100/14	2000/30	1600/29	2300/29

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

ANNUAL MEAN: 576.35

ANNUAL SUMMARY OF LEVELS, 1978
Station 4084: Marysville, Michigan on St. Clair River

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	577.29	Jan	Monthly mean elevation:	576.64	Dec
Daily mean elevation:	577.77	14 Jan	Daily mean elevation:	576.28	30 Dec
Instant/hourly Elevation:	578.03	1549/19 Aug	Instant/hourly Elevation:	575.80	2045/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.77	14 Jan
577.32	7 Feb
577.08	29 Mar
577.12	21 Apr
577.28	21 May
577.42	13 Jun
577.43	10 Jul
577.36	3 Aug
577.40	21 Sep
577.40	7 Oct
577.05	6 Nov
576.87	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
576.74	7 Jan
576.63	28 Feb
576.44	18 Mar
576.56	3 Apr
576.80	11 May
577.08	16 Jun
577.16	19 Jul
577.09	27 Aug
576.79	14 Sep
576.76	30 Oct
576.52	17 Nov
576.28	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.
577.60	3												577.60	3
577.40	10					1	1						577.40	15
577.20	7	1			8	17	26	20	10	7			577.20	111
577.00	6	10	2	11	13	12	4	11	17	21	4		577.00	222
576.80	4	6	3	14	8				2	2	14	6	576.80	281
576.60	1	11	17	4	2				1	1	8	14	576.60	340
576.40			9	1							4	7	576.40	361
576.20												4	576.20	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4084: Marysville, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	576.97	577.19	576.68	576.73*	577.14	577.15	577.21	577.29	577.19	577.27	576.96	576.81
2	576.93	577.14	576.67	576.87	577.05	577.19	577.24	577.21	577.14	577.16	577.03	576.84
3	577.09	577.13	576.66	576.56	576.97	577.20	577.28	577.36	577.31	577.02	576.90	576.60
4	576.90	577.01	576.71	576.71	576.90	577.17	577.29	577.30	577.18	577.14	576.94	576.55
5	577.04	577.03	576.69	576.89	576.94	577.22	577.25	577.28	577.20	577.08	576.82	576.76
6	576.89	577.18	576.64	576.75	576.98	577.11	577.18	577.26	577.15	577.21	577.05	576.81
7	576.74	577.32	576.66	576.88	576.92	577.12	577.20	577.24	577.23	577.40	577.03	576.69
8	577.06	577.16	576.61	577.07	576.80	577.23	577.26	577.22	577.08	577.28	576.79	576.80
9	577.38	577.08	576.56	576.86	576.91	577.26	577.26	577.33	577.12	577.12	577.01	576.85
10	577.67	577.03	576.61	576.73	577.01	577.14	577.43	577.30	576.94	577.12	576.79	576.84
11	577.40	577.00	576.51	576.91	576.80	577.15	577.33	577.24	577.13	577.04	576.84	576.65
12	577.58	577.02	576.58	576.99	576.89	577.25	577.24	577.19	577.16	577.14	576.87	576.55
13	577.62	576.95	576.45	576.99	576.96	577.42	577.21	577.19	576.84	577.28	576.58	576.80
14	577.77	576.85	576.47	577.08	577.07	577.29	577.25	577.19	576.79	577.23	576.91	576.73
15	577.55	576.73	576.64	577.05	577.19	577.18	577.27	577.13	577.13	577.18	576.96	576.58
16	577.49	576.75	576.54	577.01	577.22	577.08	577.34	577.12	577.24	577.12	576.82	576.62
17	577.54	576.76	576.56	576.94	577.25	577.14	577.23	577.34	577.17	577.06	576.52	576.87
18	577.44	576.84	576.44	576.85	577.21	577.23	577.16	577.13	577.09	577.12	576.73	576.73
19	577.42	576.83	576.71	576.85	577.20	577.25	577.16	577.25	577.08	577.15	576.99	576.56
20	577.44	576.78	576.57	577.06	577.24	577.22	577.24	577.33	577.15	577.09	576.90	576.40
21	577.38	576.84	576.66	577.12	577.28	577.30	577.26	577.20	577.40	576.98	576.74	576.63
22	577.26	576.79	576.74	577.01	577.21	577.30	577.24	577.19	577.34	577.10	576.79	576.50
23	577.07	576.71	576.92	576.93	577.19	577.28	577.34	577.15	577.25	577.29	576.74	576.63
24	577.03	576.73	577.04	576.94	577.23	577.23	577.30	577.24	577.30	577.00	576.93	576.37
25	577.31	576.74	576.69	577.03	577.20	577.15	577.25	577.23	577.36	577.02	576.93	576.61
26	577.50	576.73	576.64	577.01	577.19	577.26	577.24	577.21	577.12	577.15	576.74	576.62
27	577.44	576.69	576.76	577.01	577.16	577.31	577.39	577.09	577.38	577.04	576.60	576.62
28	577.42	576.63	576.82	577.00	577.15	577.30	577.37	577.12	577.23	577.20	576.62	576.59
29	577.34		577.08	577.00	577.13	577.32	577.37	577.27	577.13	577.02	576.54	576.29
30	577.22		576.98	577.01	577.12	577.34	577.33	577.25	577.04	576.76	576.89	576.28
31	577.12		576.69		577.21		577.26	577.23		577.10		576.62
MEAN	577.29	576.92	576.68	576.93	577.09	577.23	577.27	577.23	577.16	577.12	576.83	576.64
MAX.	577.95	577.45	577.71	577.37	577.73	577.74	577.86	578.03	577.67	577.57	577.36	577.28
	0528/26	0030/07	2200/23	0125/08	1928/20	0907/26	1630/29	1549/19	0123/25	1026/23	0145/07	2150/13
MIN.	576.53	576.55	575.80	576.13	576.51	576.22	576.71	576.43	576.44	576.55	576.11	575.98
	0727/04	1100/28	2045/18	1045/04	2213/11	0410/17	2008/26	0915/16	1200/14	2220/30	1545/29	2255/29

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

ANNUAL MEAN: 577.03

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	577.71	Aug	Monthly mean elevation:	577.05	Mar
Daily mean elevation:	578.14	10 Jan	Daily mean elevation:	576.76	30 Dec
Instant/hourly Elevation:	578.58	1600/19 Aug	Instant/hourly Elevation:	576.13	2100/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.14	10 Jan
577.62	7 Feb
577.44	29 Mar
577.57	21 Apr
577.72	21 May
577.88	13 Jun
577.87	10 Jul
577.94	20 Aug
577.92	27 Sep
577.95	7 Oct
577.57	7 Nov
577.41	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.07	7 Jan
576.99	28 Feb
576.80	18 Mar
576.93	3 Apr
577.16	8 May
577.46	16 Jun
577.57	19 Jul
577.55	16 Aug
577.21	14 Sep
577.24	30 Oct
576.88	17 Nov
576.76	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.
578.00	2												578.00	2
577.80	4					1	4	3	6	5			577.80	25
577.60	11	1			10	16	23	23	15	15			577.60	139
577.40	6	5	2	11	11	13	4	5	6	10	13	1	577.40	226
577.20	6	9	2	14	8				3	1	12	10	577.20	291
577.00	2	12	14	4	2						3	14	577.00	342
576.80		1	12	1							2	4	576.80	362
576.60			1									2	576.60	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	577.32	577.50	577.06	577.11	577.59	577.55	577.61	577.76	577.67	577.81	577.48	577.34
2	577.27	577.52	577.03	577.31	577.48	577.60	577.65	577.67	577.61	577.65	577.52	577.38
3	577.26	577.53	577.03	576.93	577.40	577.59	577.71	577.84	577.84	577.48	577.39	577.06
4	577.14	577.34	577.10	577.06	577.33	577.59	577.72	577.79	577.68	577.63	577.45	576.96
5	577.42	577.37	577.05	577.26	577.37	577.66	577.66	577.77	577.73	577.56	577.31	577.26
6	577.24	577.50	577.00	577.09	577.39	577.50	577.59	577.76	577.67	577.72	577.57	577.34
7	577.07	577.62	577.03	577.25	577.33	577.52	577.60	577.72	577.74	577.95	577.57	577.18
8	577.46	577.46	576.98	577.46	577.16	577.68	577.68	577.67	577.56	577.82	577.26	577.30
9	577.84	577.39	576.93	577.24	577.27	577.68	577.68	577.79	577.69*	577.62	577.52	577.39
10	578.14	577.37	576.99	577.02	577.45	577.54	577.87	577.79	577.40	577.63	577.30	577.36
11	577.78	577.34	576.88	577.24	577.18	577.54	577.78	577.73	577.60	577.52	577.38	577.14
12	577.89	577.38	576.97	577.34	577.25	577.65	577.65	577.67	577.68	577.63	577.38	577.05
13	577.88	577.29	576.84	577.35	577.35	577.88	577.61	577.66	577.31	577.82	577.04	577.32
14	578.03	577.19	576.89	577.48	577.47	577.72	577.68	577.66	577.21	577.76	577.44	577.21
15	577.76	577.08	577.06	577.44	577.64	577.59	577.72	577.58	577.62	577.69	577.50	577.07
16	577.73	577.11	576.94	577.39	577.65	577.46	577.80	577.55	577.74	577.63	577.34	577.13
17	577.79	577.11	576.98	577.33	577.66	577.54	577.66	577.82	577.63	577.56	576.88	577.41
18	577.70	577.21	576.80	577.23	577.61	577.59	577.57	577.58	577.57	577.62	577.22	577.26
19	577.69	577.20	577.13	577.23	577.60	577.66	577.57	577.74	577.55	577.68	577.56	577.05
20	577.68	577.14	576.98	577.49	577.63	577.63	577.67	577.94*	577.64	577.59	577.43	576.87
21	577.63	577.23	577.04	577.57	577.72	577.71	577.73	577.70*	577.91	577.46	577.25	577.10
22	577.53	577.17	577.11	577.42	577.61	577.72	577.67	577.68	577.87	577.63	577.29	576.98
23	577.33	577.08	577.31	577.31	577.58	577.71	577.79	577.64	577.76	577.87	577.22	577.16
24	577.32	577.09	577.44	577.35	577.62	577.66	577.74	577.73	577.83	577.49	577.45	576.87
25	577.60	577.11	577.04	577.46	577.61	577.54	577.68	577.75	577.90	577.50	577.48	577.15
26	577.83	577.11	576.96	577.43	577.57	577.64	577.69	577.70	577.59	577.68	577.27	577.18
27	577.77	577.07	577.11	577.42	577.52	577.72	577.85	577.57	577.92	577.53	577.09	577.18
28	577.74	576.99	577.15	577.40	577.53	577.73	577.82	577.57	577.76	577.74	577.09	577.13
29	577.65		577.44	577.41*	577.52	577.76	577.86	577.76	577.64	577.54	577.00	576.78
30	577.52		577.28	577.43	577.50	577.76	577.79	577.74	577.52	577.24	577.44	576.76
31	577.43		577.06		577.62		577.71	577.73		577.65		577.17
MEAN	577.59	577.27	577.05	577.32	577.49	577.64	577.70	577.71	577.66	577.64	577.34	577.15
MAX.	578.36	577.74	578.20	577.79	578.00	578.14	578.34	578.58	578.20	578.14	577.88	577.88
	1000/10	0900/07	2200/23	1100/21	0300/21	2300/17	1800/29	1600/19	0100/25	0300/23	0500/30	2200/13
MIN.	576.56	576.91	576.13	576.62	576.96	576.42	577.24	576.86	576.87	577.06	576.46	576.46
	0700/04	1000/28	2100/18	1000/10	1600/08	0400/18	0600/29	0900/16	1200/14	0900/30	1600/17	2300/29

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

ANNUAL MEAN: 577.46

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	578.11	Jul	Monthly mean elevation:	577.47	Dec
Daily mean elevation:	578.63	10 Jan	Daily mean elevation:	577.08	30 Dec
Instant/hourly Elevation:	579.00	1550/19 Aug	Instant/hourly Elevation:	576.46	0353/18 Jun

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.63	10 Jan
577.95	7 Feb
577.84	24 Mar
577.97	21 Apr
578.17	21 May
578.25	13 Jun
578.29	10 Jul
578.22	3 Aug
578.33	21 Sep
578.36	7 Oct
578.00	6 Nov
577.74	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.43	7 Jan
577.39	28 Feb
577.23	18 Mar
577.26	3 Apr
577.56	11 May
577.76	16 Jun
577.96	18 Jul
577.89	16 Aug
577.53	14 Sep
577.57	30 Oct
577.27	17 Nov
577.08	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.
578.60	1												578.60	1
578.40													578.40	1
578.20	4					1	6	1	6	2			578.20	21
578.00	6				11	13	21	23	13	11			578.00	119
577.80	7	3	1	10	12	15	4	7	8	15	11		577.80	212
577.60	5	8	3	9	6	1			2	2	10	6	577.60	264
577.40	5	14	18	9	2				1	1	3	15	577.40	332
577.20		1	9	2							3	7	577.20	354
577.00												3	577.00	357

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	577.56*	/	577.50	577.47	578.02	577.93	578.01	578.14	578.05	578.18	577.83	577.74
2	577.55	/	577.49	577.72	577.91	577.95	578.04	578.01	577.98	578.03	577.92	577.71
3	577.78	577.68*	577.50	577.26	577.81	577.95	578.12	578.22	578.23	577.84	577.79	577.58
4	577.48	577.57	577.60	577.44	577.75	577.94	578.11	578.17	578.07	577.99	577.84	577.31
5	577.69	577.65	577.56	577.60	577.76	578.02	578.08	578.13	578.12	577.90	577.67	577.52
6	577.55	577.82	577.48	577.41	577.82	577.86	577.98	578.12	578.03	578.07	578.00	577.68*
7	577.43	577.95	577.49	577.59	577.74	577.85	578.00	578.07	578.12	578.36	577.98	577.48*
8	577.99	577.81	577.44	577.82	577.57	578.02	578.08	578.02	577.96	578.20	577.61	577.62
9	578.28	577.76	577.37	577.57	577.67	578.04	578.12	578.16	577.99	577.98	577.90	577.70
10	578.63	577.75	577.45	577.31	577.87	577.88	578.29	578.17	577.76	577.99	577.66	577.67
11	578.22*	577.70	577.32	577.57	577.56	577.87	578.20	578.07	577.98	577.87	577.77	577.45
12	578.22*	577.75	577.43	577.64	577.64	578.00	578.05	578.02	578.09	577.99	577.79	577.32
13	578.13	577.68	577.28	577.69	577.76	578.25	578.01	578.00	577.65	578.20	577.39	577.57
14	578.25	577.55	577.34	577.84	577.90	578.07	578.09	578.01	577.53	578.14	577.80	577.49
15	578.03	577.44	577.53	577.82	578.07	577.93	578.11	577.94	578.01	578.05	577.91	577.32
16	577.98	577.48	577.40	577.75	578.03	577.76	578.22	577.89	578.15	578.00	577.73	577.39
17	578.04	577.47	577.43	577.70	578.02	577.84	578.08	578.19	578.03	577.91	577.27	577.58
18	577.94	577.58	577.23	577.58	577.99	577.95	577.96	577.96	577.94	577.96	577.58	577.53
19	577.96	577.58	577.61	577.57	578.03	578.00	577.97	578.06	577.94	578.02	577.96	577.37
20	577.96	577.53	577.44	577.88	578.08	577.96	578.08	578.20	578.01	577.96	577.99	577.20
21	577.88	577.62	577.44	577.97	578.17	578.06	578.15	578.03	578.33	577.80	/	577.44
22	577.80	577.54	577.45	577.79	578.05	578.09	578.08	578.04	578.26	577.96	/	577.34
23	577.63	577.46	577.68	577.69	578.03	578.12	578.21	577.97	578.12	578.23	/	577.52
24	577.61	577.49	577.84	577.71	578.04*	578.08	578.17	578.09	578.21	577.80	577.76	577.24
25	577.89	577.53	577.37	577.86	577.97*	577.96	578.07	578.11	578.29	577.82	577.98	577.53
26	578.15	577.54	577.26	577.83	577.97	578.04	578.13	578.07	577.95	578.05	577.75	577.57
27	578.11	577.49	577.43	577.82	577.96	578.12	578.28	577.91	578.31	577.89	577.54	577.58
28	578.07*	577.39	577.46	577.79	577.96	578.14	578.24	577.92	578.15	578.12	577.47	577.52
29	/		577.76	577.82	577.94	578.18	578.26	578.14	578.01	577.91	577.37	577.12
30	/		577.57	577.82	577.90	578.20	578.20	578.11	577.85	577.57	577.92	577.08
31	/		577.35		578.04		578.11	578.10		578.02		577.54
MEAN	577.92	577.61	577.47	577.68	577.90	578.00	578.11	578.07	578.04	577.99	577.75	577.47
MAX.	578.82	578.09	578.68	578.33	578.64	578.53	578.83	579.00	578.89	578.52	578.31	578.07
	0145/10	0037/07	2115/23	0105/02	1904/20	2248/17	1615/29	1550/19	1725/27	1020/23	0150/07	2300/13
MIN.	577.04	577.30	576.46	576.52	577.31	576.46	577.28	577.06	577.11	577.42	576.85	576.60
	0700/04	1300/28	2028/18	0940/04	0942/11	0353/18	1940/26	0855/16	1150/14	0945/30	2340/17	1710/20

ANNUAL MEAN: 577.83

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

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	578.53	Jul	Monthly mean elevation:	577.72	Mar
Daily mean elevation:	578.88	10 Jan	Daily mean elevation:	577.45	18 Mar
Instant/hourly Elevation:	579.62	1907/19 Aug	Instant/hourly Elevation:	576.57	2017/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.88	10 Jan
578.12	7 Feb
578.15	24 Mar
578.35	21 Apr
578.50	21 May
578.71	13 Jun
578.72	27 Jul
578.66	20 Aug
578.76	27 Sep
578.82	7 Oct
578.60	19 Nov
578.13	18 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.63	7 Jan
577.66	15 Feb
577.45	18 Mar
577.56	3 Apr
577.87	8 May
578.19	16 Jun
578.38	19 Jul
578.27	16 Aug
577.94	14 Sep
578.03	30 Oct
577.77	17 Nov
577.53	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.
578.80	1									1			578.80	2
578.60						2	9	4	7	5			578.60	29
578.40	2				7	15	19	22	15	15	9		578.40	133
578.20	6			7	14	12	3	5	5	9	10		578.20	204
578.00	12	3	1	11	6	1			2	1	7	6	578.00	254
577.80	7	14	3	7	4				1		3	3	577.80	296
577.60	3	11	22	4							1	3	577.60	340
577.40			5	1								2	577.40	348
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	577.99	578.01	577.76	577.80	578.41	578.30	578.42	578.56	578.50	578.64	578.30	/
2	577.86	577.96	577.72	578.07	578.29	578.39	578.46	578.42	578.41	578.47	578.41	/
3	578.14	578.00	577.72	577.56	578.18	578.38	578.52	578.66	578.63	578.28	578.25	/
4	577.81	577.84	577.80	577.71	578.11	578.35	578.54	578.61	578.48	578.43	578.30	/
5	578.04	577.88	577.73	577.94	578.10	578.44	578.47	578.58	578.57	578.34	578.11	/
6	577.82	578.03	577.69	577.71	578.16	578.28	578.38	578.56	578.48	578.50	578.45	/
7	577.63	578.12	577.72	577.92	578.10	578.29	578.41	578.51	578.58	578.82	578.43	/
8	578.14	577.98	577.68	578.18	577.87	578.48	578.50	578.43	578.36	578.67	578.04	/
9	578.56	577.94	577.61	577.90	577.99	578.47	578.50	578.60	578.38	578.45	578.38	/
10	578.88	577.94	577.70	577.66	578.23	578.29	578.72	578.60	578.20	578.45	578.10	/
11	578.33	577.93	577.57	577.88	577.90	578.31	578.62	578.50	578.42	578.33	578.26	/
12	578.38	578.00	577.69	577.99	577.96	578.45	578.50	578.46	578.53	578.47	578.41	/
13	578.30	577.93	577.55	578.01	578.09	578.71	578.42	578.45	578.04	578.65	577.91	/
14	578.42	577.77	577.59	578.22	578.26	578.51	578.51	578.46	577.94	578.57	578.31	/
15	578.12	577.66	577.80	578.18	578.43	578.36	578.51	578.35	578.45	578.55	578.42	/
16	578.09	577.71	577.66	578.12	578.43	578.19	578.64	578.27	578.60	578.48	578.26	/
17	578.19	577.72	577.69	578.06	578.45	578.30	578.49	578.64	578.46	578.38	577.77	/
18	578.08	577.84	577.45	577.95	578.39	578.44	578.38	578.36	578.38	578.46	578.11	578.13*
19	578.10	577.82	577.87	577.95	578.40	578.46	578.38	578.54	578.36	578.50	578.60	577.90
20	578.08	577.77	577.69	578.27	578.44	578.40	578.51	578.66	578.46	578.45	578.56	577.62
21	577.99	577.87	577.72	578.35	578.50	578.52	578.56	578.50	578.76	578.26	578.20	577.84
22	577.91	577.82	577.75	578.16	578.39	578.55	578.49	578.50	578.70	578.48	578.20	577.75
23	577.71	577.72	577.99	578.06	578.37	578.54	578.62	578.42	578.61	578.74	578.11	578.01
24	577.72	577.74	578.15	578.09	578.40	578.48	578.61	578.55	578.68	578.27	578.36	577.68
25	578.07	577.79	577.63	578.24	578.38	578.36	578.50	578.53	578.75	578.29	578.55	577.98
26	578.32	577.79	577.50	578.22	578.37	578.43	578.55	578.51	578.42	578.56	578.38	578.05
27	578.27	577.74	577.66	578.21	578.33	578.53	578.72	578.34	578.76	578.36	578.40	578.05
28	578.25	577.67	577.68	578.18	578.32	578.55	578.68	578.35	578.57	578.62	577.97	578.01
29	578.14		578.00	578.20	578.29	578.58	578.66	578.57	578.46	578.38	577.91	577.54
30	578.01		577.78	578.21	578.27	578.61	578.61	578.58	578.31	578.03	578.51	577.53
31	577.93		577.65		578.42		578.53	578.55		578.52		578.03
MEAN	578.11	577.86	577.72	578.03	578.27	578.43	578.53	578.50	578.48	578.46	578.27	577.87
MAX.	579.18	578.33	579.15	578.75	579.10	579.10	579.27	579.62	579.51	579.32	578.95	578.43
	1317/10	0025/07	2120/23	0100/02	1900/20	2245/17	1815/27	1907/19	1726/27	1022/23	2345/11	1632/18
MIN.	577.30	577.49	576.57	576.86	577.53	576.76	577.65	577.47	577.24	577.64	577.24	576.93
	0703/04	2012/15	2017/18	0946/04	1932/12	0345/18	1945/26	0855/16	1135/14	0652/30	0030/18	1625/20

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

/ Indicates No Data.

ANNUAL MEAN: 578.21

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	579.00	Jul
Daily mean elevation:	579.37	28 Jul
Instant/hourly Elevation:	579.79	2100/19 Aug

LOWEST		
Monthly mean elevation:	578.05	Mar
Daily mean elevation:	577.72	26 Mar
Instant/hourly Elevation:	576.88	2000/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.15	26 Jan
578.52	24 Feb
578.94	27 Mar
579.05	2 Apr
579.32	14 May
579.37	28 Jun
579.17	10 Jul
579.34	22 Aug
579.35	8 Sep
579.02	7 Oct
578.76	17 Nov
	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.03	28 Jan
577.72	26 Feb
577.85	3 Mar
578.64	30 Apr
578.60	17 May
578.73	6 Jun
578.67	28 Jul
578.42	14 Aug
578.50	30 Sep
577.84	17 Oct
577.82	30 Nov
	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.
579.20						2	4		3	5			579.20	14
579.00					2	1	9	11	6	6	1		579.00	50
578.80				5	2	14	16	16	10	11	6		578.80	130
578.60				6	10	11	2	4	9	8	10	5	578.60	195
578.40			1	5		2			2	1	8	7	578.40	221
578.20			3	7							3	5	578.20	239
578.00		7	17	5							1	9	578.00	278
577.80			8	2							1	2	577.80	291
577.60			2										577.60	293

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	/	/	578.13	578.09	578.89	578.71	578.84	579.07	578.92	579.03	578.97	578.65
2	/	/	578.08	578.38	579.05*	578.81	578.85	579.00	578.76	578.96	578.82	578.72
3	/	/	578.09	577.85	/	578.77	578.93	579.07	579.09	578.67	578.68	578.18
4	/	/	578.15	578.08	/	578.76	578.93	579.15	578.90	578.84	578.63	577.91
5	/	/	578.07	578.25	/	578.86	578.83	579.08	578.98	578.72	578.48	578.12
6	/	/	578.04	578.01	/	578.64	578.73	579.04	578.87	578.92	578.91	578.48
7	/	/	578.08	578.24	/	578.66	578.78	579.00	578.95	579.34	579.02	578.48
8	/	/	578.03	578.51	/	578.84	578.88	578.94	578.71	579.35	578.45	578.50
9	/	/	577.93	578.02	/	578.99	578.91	578.97	578.93	579.02	578.76	578.69*
10	/	/	578.06	577.92	/	578.82	579.19	579.17	578.51	578.93	578.57	/
11	/	/	577.92	578.17	/	578.60	579.21	579.12	578.72	578.86	578.43	/
12	/	/	578.06	578.27	/	578.80	578.98	579.01	578.86	578.80	578.92	578.02*
13	/	/	577.90	578.32	/	579.32	578.82	578.95	578.72	579.08	578.46	578.47
14	/	/	577.93	578.55	/	579.32	578.99	578.94	578.42	579.34	578.71	578.38
15	/	/	578.20	578.54	/	579.11	578.94	578.89	578.70	579.28	578.86	578.18
16	/	/	578.04	578.47	/	578.75*	579.27	578.78	579.01	579.06	578.66	578.40
17	/	/	578.07	578.41	/	578.60	579.19	578.94	578.96	578.78	577.84	578.76
18	/	/	577.78	578.31	/	578.72	578.95	578.92	578.88	578.87	578.39	578.62*
19	/	/	578.27	578.28	/	578.86*	578.87	578.87	578.68	578.93	578.56	/
20	/	/	578.05	578.63	579.02*	578.80	578.91	579.10	578.78	578.84	578.80	578.06
21	/	/	578.04	578.85	578.95	578.82	579.03	578.88	579.02	578.63	578.64	578.21*
22	/	578.09*	578.07	578.84	578.76	578.92	579.04	578.89	579.34	578.87	578.63	578.01*
23	/	578.06	578.33	578.76	578.75	578.92	579.05	578.77	579.02	579.22	578.51	578.34
24	/	578.08	578.52	578.65	578.80	578.87	579.17	578.95	579.10	578.64	578.58	578.05
25	/	578.13	577.86	578.76	578.78	578.66	579.07	579.03	579.23	578.66	578.84	578.26
26	/	578.15	577.72	578.91	578.74	578.68	579.00	578.99	578.80	579.15	578.74	578.42*
27	/	578.07	577.92	578.94	578.70	578.85	579.06	578.79	578.95	578.97	578.40	578.47*
28	/	578.03	577.94	578.85	578.70	578.92	579.37	578.67	579.22	579.02	578.31	578.50
29	/		578.26	578.78	578.67	578.93	578.92	578.93	579.01	579.00	578.10	578.04
30	/		578.05	578.76	578.64	579.00	579.22	578.97	578.71	578.50	578.79	577.82
31	/		577.92		578.80		579.15	579.02		578.67		578.17
MEAN	/	578.09	578.05	578.45	578.80	578.84	579.00	578.96	578.89	578.93	578.62	578.32
MAX.		578.28	579.53	579.03	579.56	579.46	579.44	579.79	579.65	579.71	579.54	579.32
		1200/26	2100/23	1700/21	1900/20	1800/13	0200/10	2100/19	0100/25	1000/23	0400/30	2000/13
MIN.		577.89	576.88	577.23	578.40	577.72	578.29	578.05	578.33	578.17	576.90	577.56
		1200/28	2000/18	0100/01	2300/30	0400/18	0600/29	0800/19	0100/14	1000/25	2200/17	0100/21

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

ANNUAL MEAN: 578.63

ANNUAL SUMMARY OF LEVELS, 1978
Station 5002: Lakeport, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.01	Oct	Monthly mean elevation:	578.17	Mar
Daily mean elevation:	579.44	7 Oct	Daily mean elevation:	577.88	18 Mar
Instant/hourly Elevation:	579.86	1600/19 Aug	Instant/hourly Elevation:	577.08	2200/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.29	10 Jan
578.52	7 Feb
578.54	24 Mar
578.77	21 Apr
579.00	21 May
579.25	13 Jun
579.25	10 Jul
579.22	20 Aug
579.36	21 Sep
579.44	7 Oct
579.02	19 Nov
578.85	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.97	7 Jan
578.04	15 Feb
577.88	18 Mar
577.90	3 Apr
578.28	8 May
578.66	16 Jun
578.82	6 Jul
578.72	16 Aug
578.41	14 Sep
578.54	30 Oct
577.99	17 Nov
578.00	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										1			579.40	1
579.20	1					1	1	1	4	4			579.20	13
579.00						4	11	15	9	10	2		579.00	64
578.80	1				14	16	19	12	14	12	12	2	578.80	166
578.60	6			9	8	9		2	1	3	8	7	578.60	219
578.40	10	3	2	8	6				2	1	5	13	578.40	269
578.20	8	16	6	8	3						2	5	578.20	317
578.00	4	9	21	4								3	578.00	358
577.80	1		2	1							1	1	577.80	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5002: Lakeport, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.41	578.39	578.24	578.16	578.87	578.78	578.88	579.07	578.98	579.21	578.85	578.78
2	578.26	578.32	578.18	578.44	578.75	578.87	578.91	578.93	578.91	579.01	578.92	578.84
3	578.59	578.38	578.19	577.90	578.63	578.88	579.00	579.18	579.20	578.79	578.77	578.39
4	578.21	578.22	578.25	578.08	578.57	578.80	579.00	579.11	578.98	578.96	578.86	578.13
5	578.44	578.24	578.18	578.32	578.55	578.94	578.90	579.05	579.02	578.85	578.63	578.60
6	578.20	578.42	578.13	578.11	578.60	578.73	578.82	579.04	578.92	579.04	579.02	578.77
7	577.97	578.52	578.17	578.27	578.54	578.77	578.86	578.97	579.10	579.44	578.97	578.60
8	578.53	578.34	578.10	578.62	578.28	578.97	578.96	578.90	578.85	579.25	578.50	578.75
9	578.91	578.32	578.04	578.21	578.41	578.99	578.98	579.10	578.95	578.99	578.92	578.75
10	579.29	578.34	578.14	578.02	578.67	578.78	579.25	579.11	578.68	579.00	578.63	578.74
11	578.66	578.33	578.00	578.28	578.31	578.74	579.11	578.99	578.92	578.87	578.78	578.46
12	578.64	578.42	578.17	578.36	578.38	578.93	578.94	/	579.02	579.00	578.83	578.34
13	578.57	578.36	578.03	578.38	578.54	579.25	578.88	578.93	578.58	579.28	578.32	578.66
14	578.72	578.16	578.01	578.62	578.70	579.01	578.99	578.92	578.41	579.18	578.83	578.52
15	578.38	578.04	578.24	578.58	578.89	578.84	579.02	578.80	578.93	579.11	578.93	578.36
16	578.35	578.11	578.13	578.52	578.90	578.66	579.17	578.72	579.13	579.06	578.74	578.51
17	578.48	578.10	578.17	578.46	578.94	578.77	578.98	579.14	579.03	578.91	577.99	578.85
18	578.33	578.23	577.88	578.35	578.82	578.92	578.86	578.86	578.83	578.98	578.51	578.71
19	578.42	578.21	578.31	578.34	578.81	578.96	578.85	579.02	578.85	579.06	579.02	578.48
20	578.41	578.13	578.14	578.68	578.88	578.91	578.99	579.22	578.93	578.97	578.92	578.21
21	578.26	578.27	578.10	578.77	579.00	578.99	579.01	578.97	579.36	578.79	578.63	578.46
22	578.17	578.25	578.10	578.59	578.83	579.00	578.95	578.98	579.28	579.03	578.69	578.24
23	578.02	578.16	578.34	578.43	578.83	579.00	579.10	578.90	579.13	579.26	578.56	578.56
24	578.05	578.19	578.54	578.49	578.86	578.91	579.10	579.01	579.18	578.75	578.84	578.19
25	578.36	578.23	578.25	578.68	578.83	578.76	578.98	579.07	579.30	578.82	578.93	578.50
26	578.65	578.25	578.09	578.66	578.81	578.83	578.97	579.01	578.92	579.09	578.72	578.58
27	578.68	578.18	578.18	578.65	578.77	578.97	579.18	578.83	579.31	578.89	578.47	578.59
28	578.68	578.14	578.13	578.59	578.78	579.01	579.19	578.81	579.14	579.20	578.41	578.56
29	578.55		578.43	578.61	578.75	579.01	579.12	579.08	578.97	578.91	578.28	578.07
30	578.41		578.19	578.66	578.71	579.03	579.14	579.07	578.87	578.54	578.91	578.00
31	578.30		578.08		578.86		579.02	579.10		579.08		578.53
MEAN	578.45	578.26	578.17	578.43	578.71	578.90	579.00	579.00	578.99	579.01	578.71	578.51
MAX.	579.53	578.78	579.23	579.14	579.36	579.53	579.72	579.86	579.83	579.63	579.53	579.43
	0900/10	2400/06	2100/23	0100/02	2200/20	0700/13	1600/29	1600/19	1700/27	2000/07	0400/30	2000/13
MIN.	577.78	577.88	577.12	577.10	578.01	578.29	578.35	578.09	578.05	578.29	577.08	577.68
	2100/23	2000/15	2000/18	1000/04	1900/08	1800/17	0700/29	0900/16	1100/14	0900/30	2200/17	2200/29

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

ANNUAL MEAN: 578.68

ANNUAL SUMMARY OF LEVELS, 1978
Station 5014: Harbor Beach, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.01	Oct	Monthly mean elevation:	578.12	Mar
Daily mean elevation:	579.36	7 Oct	Daily mean elevation:	577.88	3 Apr
Instant/hourly Elevation:	579.61	0400/12 Sep	Instant/hourly Elevation:	577.45	0900/4 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.00	10 Jan
578.43	7 Feb
578.33	29 Mar
578.60	21 Apr
578.88	21 May
579.10	13 Jun
579.16	28 Jul
579.14	17 Aug
579.25	21 Sep
579.36	7 Oct
579.02	19 Nov
578.79	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.98	7 Jan
578.08	15 Feb
577.99	18 Mar
577.88	3 Apr
578.27	8 May
578.65	16 Jun
578.83	18 Jul
578.75	16 Aug
578.47	14 Sep
578.62	30 Oct
578.26	17 Nov
578.02	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.
579.20									3	2			579.20	5
579.00						2	8	12	8	13	1		579.00	49
578.80	1				4	17	23	16	13	14	11		578.80	148
578.60	3				17	11		3	4	2	11	11	578.60	210
578.40	5	1		15	8				2		6	12	578.40	259
578.20	17	13	5	9	2						1	5	578.20	311
578.00	4	14	22	4								3	578.00	358
577.80	1		4	2									577.80	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5014: Harbor Beach, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.30	578.35	578.19	578.10	578.73	578.76	578.83	579.01	578.95	579.20	578.85	578.77
2	578.33	578.30	578.14	578.30	578.64	578.80	578.84	578.96	578.91	579.03	578.94	578.79
3	578.59	578.34	578.11	577.88	578.52	578.83	578.93	579.09	579.12	578.80	578.77	578.43
4	578.32	578.15	578.23	578.14	578.45	578.78	578.95	579.07	578.98	578.97	578.85	578.26
5	578.39	578.18	578.14	578.26	578.46	578.88	578.88	579.04	578.99	578.96	578.71	578.70
6	578.18	578.32	578.08	578.10	578.55	578.74	578.83	579.01	578.95	579.07	578.98	578.76
7	577.98	578.43	578.11	578.21	578.46	578.76	578.88	578.93	579.10	579.36	578.89	578.60
8	578.40	578.28	578.04	578.45	578.27	578.89	578.95	578.90	578.79	579.22	578.64	578.64
9	578.69	578.27	578.01	578.16	578.41	578.92	578.99	579.03	578.87	579.03	578.90	578.73
10	579.00	578.30	578.09	577.99	578.64	578.76	579.14	579.03	578.65	579.00	578.63	578.74
11	578.69	578.30	578.00	578.24	578.37	578.77	579.07	578.90	578.91	578.92	578.67	578.53
12	578.61	578.40	578.12	578.42	578.44	578.89	578.90	578.84	578.96	579.06	578.72	578.44
13	578.39	578.31	578.00	578.40	578.51	579.10	578.88	578.87	578.53	579.17	578.41	578.68
14	578.40	578.11	578.04	578.57	578.64	578.94	578.94	578.90	578.47	579.08	578.80	578.69
15	578.29	578.08	578.19	578.52	578.77	578.81	578.95	578.83	578.99	579.07	578.92	578.46
16	578.34	578.11	578.07	578.44	578.77	578.65	579.04	578.75	579.09	578.95	578.72	578.58
17	578.34	578.13	578.10	578.39	578.83	578.76	578.90	579.14	578.95	578.92	578.26	578.78
18	578.24	578.23	577.99	578.27	578.77	578.94	578.83	578.89	578.80	579.01	578.55	578.63
19	578.32	578.19	578.29	578.29	578.79	578.91	578.88	578.95	578.79	579.05	579.02	578.40
20	578.32	578.10	578.14	578.53	578.83	578.84	578.97	579.13	578.98	578.99	578.83	578.20
21	578.22	578.20	578.05	578.60	578.88	578.93	578.98	578.92	579.25	578.89	578.62	578.40
22	578.19	578.21	578.11	578.51	578.77	578.97	578.95	578.93	579.21	579.00	578.67	578.37
23	578.14	578.14	578.24	578.36	578.74	578.95	579.05	578.89	579.11	579.10	578.60	578.59
24	578.11	578.17	578.30	578.41	578.80	578.87	579.05	579.02	579.16	578.86	578.84	578.24
25	578.27	578.16	578.06	578.55	578.79	578.77	578.92	578.98	579.22	578.98	578.88	578.48
26	578.56	578.22	578.00	578.53	578.76	578.80	578.95	578.93	579.00	579.04	578.63	578.60
27	578.51	578.15	578.10	578.54	578.74	578.97	579.14	578.78	579.20	578.92	578.42	578.57
28	578.57	578.11	578.13	578.53	578.72	579.01	579.16	578.78	579.12	579.11	578.44	578.51
29	578.45		578.33	578.52	578.69	578.99	579.00	579.08	579.01	578.88	578.49	578.11
30	578.36		578.16	578.54	578.68	578.96	579.03	579.04	578.87	578.62	578.91	578.02
31	578.27		578.06		578.84		578.95	579.00		578.99		578.49
MEAN	578.38	578.22	578.12	578.36	578.65	578.86	578.96	578.96	578.96	579.01	578.72	578.52
MAX.	579.16	578.56	578.65	578.74	579.17	579.20	579.38	579.31	579.61	579.44	579.31	579.09
	0600/26	0800/07	2100/23	2300/30	2300/20	1600/18	0400/28	0200/20	0400/12	1900/07	1400/19	2200/13
MIN.	577.85	578.00	577.63	577.45	578.03	578.41	578.60	578.41	578.25	578.44	577.73	577.79
	0300/07	2000/15	1900/18	0900/04	2000/08	0100/18	0300/23	0800/19	1000/14	0800/30	2400/17	0200/30

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

/ Indicates No Data.

ANNUAL MEAN: 578.64

ANNUAL SUMMARY OF LEVELS, 1978

Station 5034: Essexville, Michigan on Lake Huron (Saginaw Bay)

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.03	Sep	Monthly mean elevation:	578.16	Mar
Daily mean elevation:	579.88	12 Sep	Daily mean elevation:	577.93	1 Apr
Instant/hourly Elevation:	580.84	0800/12 Sep	Instant/hourly Elevation:	577.50	1728/11 May

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.64	10 Jan
	Feb
578.38	24 Mar
579.06	25 Apr
579.20	15 May
579.30	13 Jun
579.26	30 Jul
579.19	3 Aug
579.88	12 Sep
579.36	13 Oct
579.22	20 Nov
578.64	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.05	7 Jan
	Feb
577.95	18 Mar
577.93	1 Apr
578.12	9 May
578.58	6 Jun
578.68	6 Jul
578.13	16 Aug
578.47	14 Sep
578.43	30 Oct
577.98	29 Nov
578.64	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.
579.80									1				579.80	1
579.60													579.60	1
579.40													579.40	1
579.20						1	3		8	6	1		579.20	20
579.00				1	2	3	12	13	6	5	1		579.00	63
578.80				4	11	17	10	11	8	8	5		578.80	137
578.60	1			1	11	7	6	6	6	8	10	1	578.60	194
578.40	2			13	3	2			1	4	6		578.40	225
578.20	4		5	4	2						3		578.20	243
578.00	3		11	5	2			1			2		578.00	267
577.80			1	2							1		577.80	271
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5034: Essexville, Michigan on Lake Huron (Saginaw Bay)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.38	/	/	577.93	578.90	578.83	578.80	579.06	578.95	579.14	578.64	578.64*
2	578.10	/	/	578.48	578.77	578.85	579.02	578.79	578.68	578.95	578.72	/
3	578.43	/	/	577.98	578.65	578.85	579.17	579.19	579.29	578.60	578.71	/
4	578.18	/	/	578.11	579.03	578.78	579.01	579.03	578.96	578.68	578.81	/
5	578.38	/	/	578.24	578.82	578.94	578.82	578.98	578.97	578.72	578.56*	/
6	578.26	/	/	578.20	578.57	578.58	578.68	578.99	578.70	578.86	/	/
7	578.05	/	/	578.17	578.60	578.73	578.80	578.97	579.24	579.32	578.86*	/
8	578.31	/	/	578.56	578.30	579.00	578.78	578.66	578.98	579.12	578.10	/
9	578.46	/	/	578.29	578.12	579.05	578.94	579.11	579.07	578.75	578.69	/
10	578.64*	/	/	578.11	578.66*	578.66	579.22	579.07	578.67	578.89	578.71	/
11	/	/	/	578.06	578.13	578.61	579.05	578.97	579.00	578.77	578.88	/
12	/	/	/	578.28	578.39	578.86	578.88	578.85	579.88	578.76	579.07	/
13	/	/	/	578.23	578.67	579.30	578.75	578.85	578.96	579.36	578.31	/
14	/	/	/	578.53	578.85	578.97	579.02	578.92	578.47	579.27	578.27	/
15	/	/	578.03*	578.50	579.20	578.87	578.98	578.80	578.75	579.07	578.78	/
16	/	/	578.18	578.58	578.99	578.60	579.22	578.13	579.17	579.32	578.79	/
17	/	/	578.09	578.46	578.91	578.73	578.96	579.10	579.28	578.80	578.60*	/
18	/	/	577.95	578.48	578.81	578.99	578.75	578.80	579.30	578.81	578.31*	/
19	/	/	578.20	578.48	578.67	578.98	578.82	578.73	578.94	578.86	578.78	/
20	/	/	578.24	578.91	578.80	578.85	579.09	579.07	579.06	578.91	579.22	/
21	/	/	578.06	578.81	578.95	578.92	579.08	578.89	579.34	578.67	578.60	/
22	/	/	578.12	578.58	578.76	578.94	578.94	578.81	579.29	578.99	578.66	/
23	/	/	578.21	578.48	578.79	579.06	579.06	578.89	579.06	579.27	578.50	/
24	/	/	578.38	578.50	578.86	578.92	579.13	579.10	579.08	578.45	578.54	/
25	/	/	578.34	579.06	578.87	578.72	578.86	579.08	579.38	578.45	578.88	/
26	/	/	578.15	578.76	578.83	578.72	578.85	579.03	578.61	579.05	579.00	/
27	/	/	578.15	578.58	578.76	578.94	579.12	578.90	579.22	578.71	578.74	/
28	/	/	578.10	578.57	578.80	578.96	579.12	578.65	579.08	579.21	578.13	/
29	/		578.28	578.87	578.77*	578.96	579.10	579.02	578.88	578.97	577.98*	/
30	/		578.11	578.83	578.59*	579.17	579.26	579.13	578.73	578.43	578.57	/
31	/		578.15		578.81		578.99	579.09		579.05		/
MEAN	578.32	/	578.16	578.45	578.73	578.88	578.98	578.92	579.03	578.91	578.63	578.64
MAX.	578.88		578.70	579.63	579.89	579.69	580.06	579.75	580.84	579.90	579.61	578.83
	2030/10		1053/24	1520/29	1655/04	2120/02	1711/29	1730/24	0800/12	1000/23	0015/12	0700/01
MIN.	577.77		577.59	577.51	577.50	578.27	578.00	577.67	578.03	578.01	577.78	578.37
	1500/02		2200/18	0848/01	1728/11	0330/12	0810/08	0830/19	1300/26	0131/19	0958/14	0100/01

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

ANNUAL MEAN: 578.70

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	579.06	Sep
Daily mean elevation:	579.90	12 Sep
Instant/hourly Elevation:	580.81	0800/12 Sep

LOWEST		
Monthly mean elevation:	578.14	Mar
Daily mean elevation:	577.06	4 Dec
Instant/hourly Elevation:	575.26	2300/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.78	14 Jan
578.40	13 Feb
578.40	24 Mar
579.07	25 Apr
579.21	15 May
579.33	13 Jun
579.31	3 Jul
579.16	3 Aug
579.90	12 Sep
579.38	13 Oct
579.26	20 Nov
578.77	18 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.06	7 Jan
578.04	17 Feb
577.93	9 Mar
577.92	1 Apr
578.09	9 May
578.58	6 Jun
578.72	18 Jul
578.11	16 Aug
578.49	14 Sep
578.38	30 Oct
577.65	29 Nov
577.06	4 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													579.60	1
579.40									1				579.40	2
579.20					1	2	3		8	5	1		579.20	22
579.00				1	2	6	11	11	6	6	2		579.00	67
578.80				4	13	13	13	14	7	11	8		578.80	150
578.60	2			1	11	7	4	5	6	6	8	6	578.60	206
578.40	6			13		2			1	2	3	8	578.40	241
578.20	7	12	5	5	2					1	2	9	578.20	284
578.00	2	16	23	4	2			1			2	3	578.00	337
577.80			3	2							1	3	577.80	346
577.60											2	1	577.60	349
577.40													577.40	349
577.20													577.20	349
577.00												1	577.00	350
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.40	578.29*	578.18	577.92	578.83	578.85	578.86	579.05	578.94	579.17	/	578.66
2	578.11	578.28	578.14	578.50	578.72	578.88	579.08	578.77	578.66	579.08	578.94*	578.75
3	578.46	578.32	578.11	578.00	578.65	578.86	579.31	579.16	579.27	578.66	578.75	578.59
4	578.21	578.21	578.20	578.13	579.06	578.77	579.11	579.01	578.93	578.73	578.84	577.06
5	578.41	578.20	578.10	578.27	578.86	578.95	578.91	578.95	578.95	578.80	578.61	578.02
6	578.28	578.36	578.09	578.24	578.62	578.58	578.75	578.97	578.66	578.87	578.98	578.66
7	578.06	578.40	578.16	578.16	578.63	578.73	578.86	578.94	579.23	579.37	578.99	578.73
8	578.33	578.32	578.07	578.58	578.29	579.01	578.88	578.64	578.96	579.17	578.06	578.60
9	578.47	578.24	577.93	578.29	578.09	579.03	579.01	579.09	579.06	578.81	578.68	578.33
10	578.66	578.25	578.17	578.11	578.65	578.65	579.30	579.06	578.65	578.91	578.72	578.32
11	578.41	578.23	578.00	578.04	578.13	578.61	579.11	578.98	578.97	578.84	578.89	578.24
12	578.56	578.29	578.13	578.28	578.40	578.87	578.88	578.85	579.90	578.79	579.10	578.12
13	578.54	578.40	578.07	578.22	578.69	579.33	578.72	578.84	578.99	579.38	578.32	578.22
14	578.78	578.15	578.02	578.54	578.86	578.99	579.00	578.91	578.49	579.30	578.29	577.84
15	578.27	578.05	578.23	578.53	579.21	578.89	578.97	578.78	578.74	579.10	578.80	577.99
16	578.31	578.05	578.18	578.60	578.99	578.59	579.19	578.11	579.22	579.36	578.81	578.46
17	578.38	578.04	578.09	578.47	578.92	578.73	578.93	579.10	579.32	578.82	577.75	578.48
18	/	578.18	577.95	578.50	578.82	579.03	578.72	578.81	579.39	578.82	577.89	578.77
19	/	578.15	578.17	578.50	578.73	579.01	578.78	578.76	579.01	578.88	578.82	578.57
20	/	578.10	578.26	578.92	578.89	578.87	579.06	579.11	579.09	578.90	579.26	578.29
21	/	578.20	578.06	578.82	579.02	578.93	579.04	578.91	579.40	578.64	578.63	578.00
22	/	578.17	578.11	578.58	578.82	578.95	578.91	578.82	579.31	578.98	578.68	577.77
23	/	578.10	578.19	578.49	578.84	579.11	579.00	578.89	579.10	579.27	578.52	578.50
24	/	578.13	578.40	578.51	578.87	578.96	579.10	579.12	579.10	578.41	578.57	578.26
25	/	578.17	578.36	579.07	578.85	578.75	578.82	579.05	579.44	578.41	578.91	578.22
26	/	578.19	578.16	578.77	578.81	578.73	578.82	578.99	578.74	579.06	579.03	578.41
27	/	578.16	578.16	578.58	578.74	578.95	579.09	578.86	579.29	578.67	578.76	578.30
28	/	578.13	578.10	578.57	578.77	578.99	579.10	578.61	579.16	579.19	578.10	578.50
29	/		578.28	578.87	578.76	579.02	579.09	578.99	578.92	578.96	577.65	578.21
30	/		578.10	578.83	578.64	579.24	579.25	579.10	578.78	578.38	578.58	578.09
31	/		578.17		578.88		578.97	579.07		578.99*		578.66
MEAN	578.39	578.21	578.14	578.46	578.74	578.90	578.99	578.91	579.06	578.93	578.62	578.31
MAX.	579.20	578.64	578.64	579.47	579.90	579.60	579.97	579.74	580.81	579.89	579.62	579.27
	0400/14	1400/13	1200/24	1600/29	1700/04	2200/02	1900/29	1800/24	0800/12	1000/23	2400/11	1700/18
MIN.	577.79	577.94	577.63	577.60	577.56	578.29	578.22	577.72	578.19	578.06	575.26	576.51
	1500/02	2300/16	2200/18	0900/01	1700/11	0500/12	0900/08	0900/19	0400/10	1700/24	2300/17	1300/04

ANNUAL MEAN: 578.64

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 5059: Harrisville, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	578.94	Oct	Monthly mean elevation:	578.03	Mar
Daily mean elevation:	579.11	27 Sep	Daily mean elevation:	577.76	13 Mar
Instant/hourly Elevation:	579.59	0728/18 Jun	Instant/hourly Elevation:	577.49	1603/4 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.38	28 Jan
578.20	6 Feb
578.17	19 Mar
578.45	14 Apr
578.75	31 May
578.94	13 Jun
579.02	28 Jul
579.03	20 Aug
579.11	27 Sep
579.10	12 Oct
578.88	2 Nov
578.75	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.12	24 Jan
578.13	5 Feb
577.76	13 Mar
577.87	3 Apr
578.29	8 May
578.66	16 Jun
578.78	2 Jul
578.76	27 Aug
578.53	14 Sep
578.75	30 Oct
578.32	17 Nov
578.07	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.
579.00							1	1	7	7			579.00	16
578.80						13	25	26	16	23	4		578.80	123
578.60					16	17	5	4	5	1	13	4	578.60	188
578.40				7	10				2		11	14	578.40	232
578.20	7			12	5						2	9	578.20	267
578.00	9	4	13	7								4	578.00	304
577.80			5	4									577.80	313
577.60			1										577.60	314
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5059: Harrisville, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	/	577.93	578.52	578.67	578.79	578.91	578.90	579.10	578.80	578.60
2	/	/	/	578.16	578.53	578.73	578.78	578.87	578.93	579.08	578.88	578.62
3	/	/	/	577.87*	578.48	578.72	578.85	578.95	578.94	578.93	578.67	578.36
4	/	578.13*	/	577.90*	578.37	578.73	578.87	579.00	578.89	579.01	578.72	578.44
5	/	578.13	/	578.18	578.39	578.79	578.82	578.96	578.93	578.96	578.62	578.75
6	/	578.20	/	578.02	578.49	578.74	578.80	578.94	578.93	578.85	578.81	578.67
7	/	578.17*	/	578.11	578.41	578.74	578.84	578.86	578.94	579.08	578.72	578.49
8	/	/	/	578.30	578.29	578.79	578.86	578.89	578.73	579.04	578.67	578.46
9	/	/	/	578.08	578.40	578.85	578.87	578.97	578.78	578.97	578.87	578.54
10	/	/	/	577.98	578.55	578.77	578.96	578.94	578.64	578.95	578.57	578.54
11	/	/	/	578.18	578.38	578.79	578.94	578.86	578.81	578.93	578.56	578.40
12	/	/	/	578.35	578.48	578.79	578.88	578.82	578.83	579.10	578.59	578.48
13	/	/	577.76*	578.32	578.47	578.94	578.86	578.85	578.56	579.07	578.48	578.53
14	/	/	577.81	578.45	578.56	578.85	578.88	578.84	578.53	578.89	578.70	578.63
15	/	/	578.02	578.41	578.66	578.75	578.86	578.78	578.94	578.98	578.79	578.47
16	578.22*	/	577.99	578.35	578.66	578.66	578.93	578.78	578.96	578.88	578.59	578.46
17	578.21	/	578.01	578.34	578.68	578.78	578.84	578.99	578.89	578.92	578.32	578.53
18	578.16	/	578.04	578.20	578.65	578.85	578.80	578.84	578.92	578.96	578.57	578.51
19	578.20	/	578.17	578.22	578.70	578.83	578.80	578.94	578.79	578.92	578.84	578.34
20	578.20	/	578.09	578.36	578.72	578.79	578.82	579.03	578.96	578.90	578.67	578.19
21	578.14	/	578.00	578.44	578.72	578.89	578.90	578.90	579.08	578.86	578.56	578.22
22	578.15	/	578.07	578.42	578.68	578.92	578.90	578.90	579.10	578.87	578.61	578.38
23	578.16	/	578.09	578.26	578.64	578.87	578.94	578.85	579.07	578.87	578.55	578.47
24	578.12	/	578.12	578.33	578.67	578.81	578.96	578.91	579.11	578.83	578.69	578.18
25	578.17	/	577.98	578.37	578.67	578.77	578.88	578.86	579.09	578.95	578.71	578.28
26	578.36	/	577.94	578.39	578.67	578.80	578.90	578.85	579.03	578.85	578.53	578.43
27	578.28	/	578.02	578.42	578.66	578.90	578.98	578.76	579.11	578.86	578.38	578.38
28	578.38	/	578.10	578.43	578.63	578.92	579.02	578.77	578.98	578.96	578.42	578.35
29	578.26		578.16	578.42	578.60	578.91	578.92	578.99	578.97	578.85	578.54	578.08
30	578.26		578.10	578.40	578.61	578.86	578.89	578.92	578.78	578.75	578.74	578.07
31	578.18*		578.01		578.75		578.88	578.87		578.93		578.33
MEAN	578.22	578.16	578.03	578.25	578.57	578.81	578.88	578.89	578.90	578.94	578.64	578.43
MAX.	579.14	578.30	578.45	578.63	579.01	579.59	579.31	579.29	579.48	579.34	579.08	578.89
	0725/26	2105/05	2305/19	1354/14	1536/20	0728/18	1920/26	0400/19	0247/12	2340/12	1005/02	1355/05
MIN.	577.90	578.00	577.52	577.49	578.00	577.81	578.41	578.37	578.29	578.53	577.81	577.63
	2000/24	1343/05	0125/14	1603/04	2126/08	0643/18	0315/21	0743/16	2250/13	0315/30	2117/17	2035/20

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

ANNUAL MEAN: 578.56

ANNUAL SUMMARY OF LEVELS, 1978

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	579.03	Sep	578.06	Mar
Daily mean elevation:	579.34	26 Sep	577.72	26 Jan
Instant/hourly Elevation:	579.75	1400/26 Sep	577.38	1700/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.38	23 Jan
578.27	15 Feb
578.27	18 Mar
578.47	19 Apr
578.84	30 May
578.99	11 Jun
579.09	25 Jul
579.07	16 Aug
579.34	26 Sep
579.20	24 Oct
579.12	8 Nov
578.83	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.72	26 Jan
577.98	6 Feb
577.93	25 Mar
577.93	1 Apr
578.37	4 May
578.81	12 Jun
578.88	15 Jul
578.87	19 Aug
578.86	8 Sep
578.72	31 Oct
578.60	20 Nov
578.16	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.
579.20									1				579.20	1
579.00							10	8	16	15	1		579.00	51
578.80					7	30	21	23	13	14	9	1	578.80	169
578.60					14					2	19	5	578.60	209
578.40				8	7						1	14	578.40	239
578.20	11	2	1	14	3							10	578.20	280
578.00	15	25	24	7								1	578.00	352
577.80	3	1	6	1									577.80	363
577.60	2												577.60	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.17	578.19	578.04	577.93	578.40	578.87	578.96	578.96	579.06	578.97	578.90	578.61
2	578.33	578.16	578.08	578.05	578.41	578.84	578.90	579.01	579.11	579.05	578.82	578.54
3	578.30	578.16	578.01	578.13	578.43	578.81	578.92	578.97	578.88	579.13	578.82	578.67
4	578.32	578.24	578.06	578.13	578.37	578.83	578.96	579.04	578.99	579.14	578.76	578.83
5	578.19	578.03	578.09	578.18	578.43	578.84	579.02	579.06	578.96	579.08	578.86	578.76
6	578.31	577.98	578.04	578.19	578.46	578.92	579.06	578.96	579.02	578.96	578.75	578.52
7	578.32	578.02	578.03	578.16	578.40	578.87	579.04	578.94	578.89	578.96	578.76	578.52
8	578.10	578.10	578.06	578.15	578.60	578.83	579.00	579.05	578.86	579.01	579.12	578.50
9	577.80	578.10	578.13	578.23	578.63	578.82	579.00	578.90	578.92	579.09	578.72	578.56
10	577.90	578.18	578.06	578.32	578.53	578.94	578.90	578.91	578.90	579.01	578.78	578.59
11	578.23	578.08	578.09	578.38	578.73	578.99	578.92	578.91	578.93	579.13	578.66	578.55
12	578.29	578.08	578.04	578.40	578.66	578.81	578.99	578.94	578.87	579.07	578.70	578.71
13	578.08	578.05	578.10	578.37	578.55	578.85	579.01	578.94	579.00	578.91	578.92	578.37
14	577.98	578.17	577.98	578.37	578.69	578.82	578.95	578.93	579.17	578.92	578.83	578.71
15	578.11	578.27	578.07	578.34	578.69	578.86	578.88	578.96	579.15	578.94	578.71	578.59
16	578.15	578.20	578.06	578.34	578.67	578.97	578.89	579.07	578.95	578.92	578.66	578.48
17	578.07	578.18	578.02	578.31	578.74	578.92	578.92	578.89	578.97	579.10	578.88	578.33
18	578.12	578.07	578.27	578.27	578.76	578.94	579.04	578.98	579.07	578.92	578.81	578.38
19	578.09	578.13	577.94	578.47	578.81	578.94	578.98	578.87	579.12	578.96	578.64	578.33
20	578.07	578.10	578.16	578.38	578.78	578.96	578.90	578.94	579.11	579.01	578.60	578.53
21	578.15	578.06	578.04	578.32	578.76	578.95	578.96	579.00	579.05	579.06	578.65	578.36
22	578.28	578.08	578.13	578.41	578.77	578.93	578.99	578.96	579.08	578.84	578.65	578.59
23	578.38	578.11	577.93	578.44	578.78	578.89	578.98	578.99	579.20	578.83	578.68	578.44
24	578.25	578.10	577.96	578.38	578.77	578.91	579.01	578.95	579.09	579.20	578.66	578.41
25	578.12	578.04	577.93	578.37	578.77	578.94	579.09	578.94	579.01	579.08	578.67	578.26
26	577.72	578.06	578.02	578.42	578.81	578.97	579.08	578.94	579.34	578.86	578.67	578.33
27	577.96	578.10	578.10	578.43	578.82	578.94	578.94	579.03	578.96	578.96	578.78	578.32
28	578.16	578.04	578.12	578.46	578.81	578.97	579.02	579.03	579.06	578.80	578.76	578.29
29	578.10		578.00	578.45	578.84	578.94	578.97	579.06	579.09	578.86	579.00	578.41
30	578.26		578.14	578.43	578.84	578.93	578.95	578.92	579.04	579.09	578.62	578.32
31	578.18		578.15		578.82		579.01	578.94		578.72		578.16
MEAN	578.14	578.11	578.06	578.31	578.66	578.90	578.98	578.97	579.03	578.99	578.76	578.48
MAX.	578.81	578.35	578.72	578.64	578.99	579.44	579.35	579.40	579.75	579.50	579.37	579.42
	0500/04	1700/04	1900/18	1000/12	1500/11	1400/16	2000/26	1700/16	1400/26	1500/24	1900/17	2000/04
MIN.	577.38	577.72	577.57	577.52	578.13	578.37	578.72	578.32	578.65	578.56	578.29	577.92
	1700/26	2400/05	2200/23	1600/01	1600/04	2200/17	1600/21	1200/19	0600/11	0200/31	0200/30	2000/31

ANNUAL MEAN: 578.62

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 5098: DeTour, Michigan on Lake Huron

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	578.93	Oct	Monthly mean elevation:	578.16	Jan
Daily mean elevation:	579.17	26 Sep	Daily mean elevation:	577.84	9 Jan
Instant/hourly Elevation:	579.42	0940/25 Oct	Instant/hourly Elevation:	577.32	0400/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.51	12 Jan
	Feb
	Mar
578.43	29 Apr
578.74	31 May
578.93	11 Jun
578.98	7 Jul
579.00	29 Aug
579.17	26 Sep
579.14	5 Oct
578.96	8 Nov
578.82	14 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.84	9 Jan
	Feb
	Mar
578.05	6 Apr
578.72	30 May
578.69	8 Jun
578.75	2 Jul
578.73	19 Aug
578.70	8 Sep
578.71	23 Oct
578.38	11 Nov
578.07	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.
579.00									5	9			579.00	14
578.80						18	12	27	21	16	5	2	578.80	115
578.60					8	12	4	4	4	6	14	5	578.60	172
578.40	3			5							10	12	578.40	202
578.20	8			13							1	8	578.20	232
578.00	11			7								2	578.00	252
577.80	4												577.80	256
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5098: DeTour, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.02	/	/	/	/	578.76	578.78	578.89	578.96	578.94	578.84	578.61
2	578.23	/	/	/	/	578.70	578.75	578.95	579.03	579.01	578.91	578.54
3	578.42	/	/	/	/	578.76	578.80	578.89	578.86	579.03	578.80	578.56
4	578.39	/	/	/	/	578.74	578.87	578.96	578.88	579.07	578.77	578.58
5	578.24	/	/	578.17*	/	578.75	578.93	578.97	578.93	579.14	578.80	578.82
6	578.23	/	/	578.05*	/	578.86	578.97	578.88	578.95	578.77	578.69	578.66
7	578.17	/	/	578.08*	/	578.81	578.98	578.82	578.90	578.93	578.74	578.54
8	578.10	/	/	578.21	/	578.69	578.90	578.91	578.70	578.95	578.96	578.40
9	577.84	/	/	578.14	/	578.76	578.92	578.79	578.84	579.03	578.87	578.55
10	577.94	/	/	578.09	/	578.86	578.76	578.83	578.78	578.97	578.64	578.64
11	578.43	/	/	578.23	/	578.93	578.89	578.80	578.86	579.02	578.38	578.62
12	578.51	/	/	578.42	/	578.72	578.91	578.80	578.72	579.02	578.46	578.69
13	578.09	/	/	578.30	/	578.73	578.90*	578.85	578.72	578.90	578.71	578.41
14	577.86	/	/	578.43	/	578.78	/	578.86	578.81	578.78	578.56	578.82
15	578.08	/	/	578.37	/	578.77	/	578.87	579.00	578.89	578.73	578.59
16	578.21	/	/	578.32	/	578.80	/	578.92	578.93	578.73	578.55	578.58
17	578.10	/	/	578.30	/	578.85	/	578.87	578.87	578.94	578.66	578.33
18	578.08	/	/	578.22	/	578.88	/	578.91	578.89	578.92	578.47	578.43*
19	578.13	/	/	578.16	/	578.88	/	578.73	578.85	578.85	578.66	578.23*
20	578.03	/	/	578.20	/	578.86	/	578.90	578.94	578.96	578.59	578.32
21	578.09	/	/	578.27	/	578.84	/	578.86	578.94	578.99	578.59	578.07
22	578.26	/	/	578.42	/	578.88	/	578.88	579.00	578.80	578.63	578.48
23	578.40	/	/	578.29	/	578.81	/	578.93	579.07	578.71	578.63	578.52
24	578.30	/	/	578.27	578.73*	578.81	/	578.89	579.03	579.04	578.57	578.36
25	578.14	/	/	578.28	578.72	578.84	/	578.87	578.93	579.12	578.68	578.08
26	577.91*	/	/	578.34	578.72	578.84	/	578.86	579.17	578.83	578.48	578.40
27	/	/	/	578.39	578.72	578.88	/	578.92	578.99	578.87	578.45	578.37*
28	/	/	/	578.43	578.73	578.91	/	578.89	578.96	578.85	578.53	578.40
29	/		/	578.43*	578.73	578.87	578.83*	579.00	579.07	578.91	578.95	578.42*
30	/		/	/	578.72	578.84	578.84	578.87	578.92	578.99	578.68	/
31	/		/		578.74		578.89	578.84		578.75		/
MEAN	578.16	/	/	578.27	578.73	578.81	578.87	578.88	578.92	578.93	578.67	578.48
MAX.	578.85			578.63	578.94	579.13	579.23	579.28	579.41	579.42	579.32	579.10
	0557/04			1112/12	1542/30	0430/27	1854/05	1924/17	1427/26	0940/25	1035/29	2130/04
MIN.	577.43			577.89	578.49	578.33	578.45	578.32	578.40	578.47	577.32	577.72
	2342/09			0320/11	0530/28	1745/12	0227/10	1205/19	2228/14	2045/22	0400/18	0600/21

ANNUAL MEAN: 578.67

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 5099: DeTour Village, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	578.92	Oct	Monthly mean elevation:	578.05	Mar
Daily mean elevation:	579.17	26 Sep	Daily mean elevation:	577.68	26 Jan
Instant/hourly Elevation:	579.36	0900/25 Oct	Instant/hourly Elevation:	577.28	1700/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.53	12 Jan
578.26	15 Feb
578.26	20 Mar
578.44	28 Apr
578.75	19 May
578.92	11 Jun
579.00	26 Jul
578.98	29 Aug
579.17	26 Sep
579.13	5 Oct
578.99	8 Nov
578.80	14 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.68	26 Jan
577.89	6 Feb
577.87	14 Mar
577.75	1 Apr
578.26	4 May
578.70	12 Jun
578.75	2 Jul
578.72	19 Aug
578.67	12 Sep
578.71	23 Oct
578.39	27 Nov
578.11	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.
579.00									4	8			579.00	12
578.80						16	25	29	21	16	5		578.80	124
578.60					16	14	6	2	5	7	14	6	578.60	194
578.40	2			4	10						10	10	578.40	230
578.20	8	2	2	14	5						1	9	578.20	271
578.00	15	22	19	8								6	578.00	341
577.80	5	4	10	3									577.80	363
577.60	1			1									577.60	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5099: DeTour Village, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.07	578.24	578.00	577.75	578.29	578.75	578.77	578.88	578.93	578.93	578.83	578.62
2	578.24	578.12	578.11	578.10	578.38	578.71	578.75	578.89	579.00	578.99	578.89	578.55
3	578.39	578.14	577.95	578.00	578.42	578.74	578.78	578.86	578.83	579.03	578.77	578.48
4	578.37	578.20	578.02	577.98	578.26	578.74	578.86	578.94	578.86	579.07	578.72	578.51
5	578.22	578.04	578.12	578.18	578.27	578.75	578.91	578.97	578.92	579.13	578.77	578.75
6	578.19	577.89	578.00	578.13	578.41	578.83	578.96	578.89	578.93	578.76	578.70	578.60
7	578.13	577.99	578.01	577.99	578.38	578.79	578.96	578.84	578.88	578.92	578.76	578.50
8	578.06	578.07	578.00	578.19	578.41	578.70	578.90	578.93	578.69	578.94	578.99	578.37
9	577.81	578.06	578.09	578.12	578.52	578.77	578.91	578.81	578.82	579.02	578.89	578.53
10	577.93	578.19	578.05	578.09	578.58	578.84	578.76	578.83	578.77	578.97	578.63	578.62
11	578.43	578.07	578.04	578.22	578.65	578.92	578.88	578.80	578.83	579.02	578.42	578.59
12	578.53	578.13	578.03	578.42	578.60	578.70	578.90	578.81	578.67	579.01	578.51	578.66
13	578.07	578.11	578.08	578.30	578.41	578.72	578.88	578.85	578.68	578.90	578.75	578.38
14	577.83	578.07	577.87	578.42	578.50	578.76	578.87	578.85	578.80	578.77	578.62	578.80
15	578.04	578.26	578.04	578.35	578.57	578.75	578.76	578.85	579.00	578.88	578.80	578.67*
16	578.19	578.19	578.00	578.31	578.60	578.78	578.81	578.90	578.92	578.72	578.63	578.48*
17	578.05	578.17	577.94	578.29	578.71	578.82	578.81	578.87	578.85	578.96	578.71	578.11*
18	578.05	578.09	578.26	578.21	578.73	578.85	578.90	578.87	578.85	578.93	578.51	578.22*
19	578.10	578.15	577.95	578.15	578.75	578.86	578.90	578.72	578.84	578.87	578.63	578.20
20	577.99	578.07	578.26	578.20	578.71	578.85	578.82	578.91	578.96	578.96	578.54	578.32
21	578.05	578.02	577.94	578.28	578.71	578.84	578.86	578.88	578.96	578.98	578.55	578.13
22	578.23	578.08	578.11	578.40	578.74	578.88	578.91	578.87	579.00	578.80	578.59	578.52
23	578.38	578.13	577.91	578.28	578.69	578.80	578.85	578.87	579.07	578.71	578.58	578.56
24	578.27	578.12	578.14	578.28	578.70	578.81	578.97	578.85	579.03	579.04	578.53	578.38
25	578.10	578.00	578.08	578.30	578.72	578.83	578.95	578.85	578.92	579.10	578.64	578.13
26	577.68	578.03	578.04	578.36	578.73	578.83	579.00	578.85	579.17	578.82	578.42	578.40
27	577.86	578.11	578.11	578.41	578.72	578.86	578.83	578.89	578.98	578.86	578.39	578.34
28	578.15	578.00	578.11	578.44	578.72	578.90	578.98	578.87	578.97	578.75	578.52	578.37
29	578.11		578.01	578.37	578.71	578.86	578.86	578.98	579.06	578.82	578.97	578.37
30	578.25		578.13	578.21	578.72	578.82	578.80	578.86	578.89	578.96	578.69	578.19
31	578.16		578.14		578.74		578.88	578.81		578.75		578.14
MEAN	578.13	578.10	578.05	578.22	578.58	578.80	578.87	578.87	578.90	578.92	578.66	578.44
MAX.	578.81	578.32	578.52	578.61	579.00	579.05	579.30	579.19	579.29	579.36	579.25	578.96
	0600/04	0200/18	1900/18	1100/12	1500/30	2400/11	2000/22	0100/28	1400/26	0900/25	1000/29	1200/14
MIN.	577.42	577.71	577.53	577.28	578.07	578.40	578.57	578.40	578.53	578.47	577.59	577.76
	2400/09	2400/05	2200/23	1700/01	2300/04	1800/12	0300/10	1200/19	2200/14	1800/06	0400/18	0300/17

ANNUAL MEAN: 578.54

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

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	580.05	Jan	Monthly mean elevation:	579.18	Dec
Daily mean elevation:	580.54	12 Jan	Daily mean elevation:	578.66	1 May
Instant/hourly Elevation:	580.65	0910/12 Jan	Instant/hourly Elevation:	578.25	1224/21 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
580.54	12 Jan
580.12	1 Feb
579.94	20 Mar
579.67	15 Apr
579.50	29 May
579.71	11 Jun
579.85	25 Jul
580.01	27 Aug
580.14	26 Sep
580.23	5 Oct
580.11	29 Nov
579.65	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.38	1 Jan
579.89	26 Feb
579.65	29 Mar
578.79	30 Apr
578.66	1 May
579.26	13 Jun
579.36	10 Jul
579.46	19 Aug
579.75	12 Sep
579.63	23 Oct
579.43	24 Nov
578.72	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.
580.40	2												580.40	2
580.20	6									1			580.20	9
580.00	13	16						1	6	10	2		580.00	57
579.80	4	12	13				2	13	22	16	7		579.80	146
579.60	4		18	3		10	21	13	2	4	9	1	579.60	231
579.40	1			16	15	12	7	4			12	4	579.40	302
579.20	1			4	9	4	1					8	579.20	329
579.00				6	4							12	579.00	351
578.80					2							2	578.80	355
578.60				1	1							4	578.60	361
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	579.38	580.12	579.86	579.59	578.66	579.64	579.64	579.64	579.96	579.84	579.83	579.51
2	579.50	580.10	579.89	579.43	578.89	579.34	579.63	579.73	580.06	580.06	579.87	579.41
3	579.74	580.06	579.87	579.43	579.06	579.48	579.60	579.54	579.87	580.19	579.81	579.50
4	579.87	580.06	579.83	579.42	579.11	579.50	579.66	579.68	579.83	580.07	579.77	579.40
5	579.69	580.10	579.91	579.44	579.00	579.44	579.74	579.78	579.98	580.23	579.86	579.65
6	579.71	579.92	579.85	579.42	579.10	579.66	579.76	579.69	579.94	579.85	579.62	579.50
7	579.92	579.94	579.81	579.34	579.14	579.57	579.78	579.65	579.96	579.72	579.73	579.34
8	580.12	579.96	579.77	579.41	579.34	579.37	579.59	579.73	579.77	579.86	580.04	579.05
9	580.17	579.99	579.80	579.36	579.22	579.39	579.71	579.49	579.92	580.00	579.95	579.19
10	580.24	580.05	579.78	579.32	579.23	579.65	579.36	579.58	579.87	580.01	579.74	579.28
11	580.53	580.04	579.79	579.40	579.50	579.71	579.58	579.74	579.83	580.11	579.46	579.32
12	580.54	580.03	579.75	579.60	579.50	579.42	579.73	579.83	579.75	580.11	579.51	579.34
13	580.33	580.02	579.78	579.56	579.30	579.26	579.65	579.78	579.91	579.96	579.93	579.05
14	579.70	580.01	579.72	579.64	579.34	579.43	579.71	579.84	580.11	579.85	579.63	579.37
15	579.85	580.11	579.74	579.67	579.39	579.57	579.51	579.87	579.96	579.93	579.79	579.17
16	580.25	580.09	579.74	579.56	579.41	579.68	579.56	579.92	579.92	579.85	579.67	579.13
17	580.14	580.06	579.69	579.50	579.37	579.66	579.67	579.69	579.93	579.99	579.89	578.78
18	580.10	580.07	579.82	579.50	579.46	579.58	579.80	579.84	579.99	579.97	579.61	578.97
19	580.19	580.08	579.86	579.46	579.48	579.65	579.76	579.46	579.94	579.87	579.55	578.75
20	580.12	580.02	579.94	579.44	579.41	579.68	579.61	579.68	579.94	579.97	579.56	579.05
21	580.12	579.92	579.82	579.53	579.34	579.51	579.64	579.75	579.86	580.03	579.53	578.77
22	580.23	579.93	579.83	579.65	579.49	579.53	579.70	579.76	579.94	579.85	579.56	579.21
23	580.30	579.98	579.87	579.47	579.46	579.57	579.58	579.95	580.04	579.63	579.64	579.18
24	580.29	579.95	579.80	579.12	579.44	579.64*	579.80	579.87	579.96	580.07	579.43	579.14
25	580.13	579.93	579.76	579.06	579.47	/	579.85	579.84	579.82	580.20	579.58	578.72
26	580.04	579.89	579.67	579.09	579.48	/	579.83	579.85	580.14	579.85	579.48	579.01
27	579.97	579.90	579.69	579.12	579.50	/	579.50	580.01	579.96	579.90	579.50	579.00
28	580.10	579.90	579.76	579.14	579.49	/	579.77	579.95	579.90	579.66	579.48	579.11
29	580.10		579.65	579.06	579.50	579.52*	579.77	579.88	580.10	579.86	580.11	579.25
30	580.11		579.69	578.79	579.48	579.64	579.69	579.82	580.03	580.08	579.56	579.20
31	580.16		579.69		579.35		579.77	579.82		579.74		579.16
MEAN	580.05	580.01	579.79	579.38	579.32	579.54	579.68	579.76	579.94	579.95	579.69	579.18
MAX.	580.65	580.25	580.12	579.81	579.72	579.88	580.06	580.39	580.38	580.42	580.53	579.97
	0910/12	0605/02	0008/19	1040/22	1130/11	1517/16	0600/29	0400/28	1250/14	1534/24	1110/29	0024/05
MIN.	579.15	579.72	579.56	578.51	578.49	579.00	579.17	579.04	579.55	579.30	578.81	578.25
	0800/14	0710/06	1115/29	1830/30	1500/01	1950/12	1856/27	1740/19	2258/08	1700/28	0744/18	1224/21

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

ANNUAL MEAN: 579.69

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	580.89	Feb	Monthly mean elevation:	579.53	Dec
Daily mean elevation:	581.23	12 Jan	Daily mean elevation:	578.96	1 May
Instant/hourly Elevation:	581.50	2137/11 Jan	Instant/hourly Elevation:	578.70	1310/1 May

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
581.23	12 Jan
581.03	5 Feb
580.67	3 Mar
579.90	15 Apr
579.88	28 May
580.05	11 Jun
580.15	25 Jul
580.55	28 Aug
580.68	14 Sep
580.78	5 Oct
580.64	29 Nov
580.12	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.80	1 Jan
580.72	28 Feb
579.87	31 Mar
579.14	30 Apr
578.96	1 May
579.57	13 Jun
579.71	10 Jul
579.94	9 Aug
580.30	12 Sep
580.23	23 Oct
580.01	28 Nov
579.03	25 Dec

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

Elev. (ft.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	No	Dec	Elev. (ft.)	No. of days above elev.
581.20	2												581.20	2
581.00	2	2											581.00	6
580.80	11	21											580.80	38
580.60	6	5	5						5	8	1		580.60	68
580.40	1		5					9	20	19	6		580.40	128
580.20	4		9					12	5	4	9		580.20	171
580.00	3		6			1	15	7			14	2	580.00	219
579.80	1		6	4	8	20	15	3				4	579.80	280
579.60	1			16	14	8	1					5	579.60	325
579.40				7	4	1						12	579.40	349
579.20				2	3							4	579.20	358
579.00				1	1							4	579.00	364
578.80					1								578.80	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	579.80	580.96	580.65	579.74	578.96	579.96	579.95	580.05	580.51	580.42	580.36	580.04
2	579.90	580.99	580.67	579.81	579.19	579.67	579.94	580.15	580.62	580.60	580.43	579.91
3	580.10	580.93	580.67	579.73	579.34	579.79	579.90	579.95	580.45	580.76	580.36	579.96
4	580.24	580.91	580.61	579.63	579.44	579.82	579.95	580.08	580.37	580.63	580.36	579.85
5	580.04	581.03	580.65	579.65	579.31	579.74	580.03	580.18	580.50	580.78	580.42	580.12
6	580.05	580.89	580.56	579.66	579.40	579.94	580.06	580.09	580.46	580.47	580.23	580.00
7	580.24	580.91	580.57	579.54	579.43	579.91	580.08	580.05	580.50	580.31	580.29	579.76
8	580.45	580.89	580.52	579.65	579.63	579.70	579.93	580.14	580.35	580.41	580.57	579.44
9	580.71	580.95	580.51	579.61	579.55	579.71	580.05	579.94	580.46	580.55	580.53	579.56
10	580.98	580.98	580.46	579.56	579.54	579.97	579.71	579.98	580.44	580.60	580.29	579.63
11	581.23	581.01	580.40	579.60	579.81	580.05	579.90	580.21	580.40	580.67	580.06	579.66
12	581.23	580.99	580.31	579.79	579.84	579.80	580.04	580.36	580.30	580.72	580.09	579.69
13	581.02	580.92	580.27	579.77	579.66	579.57	579.97	580.28	580.47	580.57	580.44	579.44
14	580.21	580.91	580.24	579.84	579.65	579.73	580.00	580.35	580.68	580.47	580.24	579.68
15	580.36	580.96	580.22	579.90	579.71	579.88	579.84	580.38	580.52	580.54	580.35	579.46
16	580.81	580.95	580.19	579.80	579.71	579.96	579.89	580.49	580.48	580.45	580.23	579.41
17	580.71	580.91	580.14	579.72	579.68	579.94	579.98	580.32	580.49	580.57	580.42	579.05
18	580.72	580.93	580.21	579.74	579.77	579.89	580.11	580.48	580.55	580.58	580.17	579.26
19	580.82	580.93	580.28	579.69	579.80	579.93	580.07	580.21	580.47	580.47	580.16	579.06
20	580.77	580.90	580.39	579.70*	579.75	579.97	579.91	580.37	580.50	580.52	580.12	579.39
21	580.80	580.79	580.23	579.76*	579.61	579.79	579.95	580.42	580.42	580.59	580.07	579.12
22	580.92	580.76	580.18	579.87	579.82	579.84	580.04	580.38	580.48	580.47	580.12	579.53
23	581.00	580.81	580.12	579.74	579.78	579.87	579.92	580.53	580.59	580.23	580.20	579.48
24	581.04	580.81	580.12	579.43	579.72	579.92	580.12	580.46	580.53	580.62	580.03	579.45
25	580.93	580.81	580.05	579.38	579.77	579.97	580.15	580.39	580.36	580.77	580.10	579.03
26	580.90	580.74	579.95	579.41	579.83	579.92	580.13	580.40	580.65	580.44	580.03	579.31
27	580.75	580.73	579.92	579.42	579.87	579.86	579.86	580.51	580.53	580.47	580.03	579.33
28	580.90	580.72	579.97	579.49	579.88	579.91	580.07	580.55	580.46	580.28	580.01	579.41
29	580.90		579.87	579.37	579.85	579.89	580.07	580.43	580.64	580.42	580.64	579.53
30	580.87		579.92	579.14	579.84	579.95	580.03	580.42	580.62	580.62	580.11	579.49
31	580.93		579.87		579.71		580.11	580.38		580.31		579.43
MEAN	580.66	580.89	580.28	579.64	579.64	579.86	579.99	580.29	580.49	580.53	580.25	579.53
MAX.	581.50	581.34	580.91	580.21	580.24	580.45	580.37	580.89	580.89	581.01	580.98	580.33
	2137/11	1256/05	2326/09	0852/15	1453/28	1338/10	0600/29	0500/28	1800/29	1200/03	1400/29	2400/04
MIN.	579.48	580.49	579.27	578.72	578.70	579.01	579.49	579.67	580.07	580.07	579.79	578.79
	0730/14	0434/24	1102/15	2033/30	1310/01	1846/13	2000/27	1900/09	0500/19	0900/27	0800/18	0900/17

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

ANNUAL MEAN: 580.17

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	600.77	Sep	Monthly mean elevation:	599.66	Mar
Daily mean elevation:	601.26	9 Jan	Daily mean elevation:	599.18	9 Apr
Instant/hourly Elevation:	601.82	1404/9 Jan	Instant/hourly Elevation:	597.84	1537/9 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
601.26	9 Jan
600.22	5 Feb
599.94	28 Mar
600.26	1 Apr
600.42	31 May
600.67	12 Jun
601.09	27 Jul
601.09	30 Aug
601.03	15 Sep
601.22	6 Oct
600.78	14 Nov
600.49	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
599.85	6 Jan
599.71	27 Feb
599.32	31 Mar
599.18	9 Apr
599.70	8 May
600.08	10 Jun
600.32	5 Jul
600.51	15 Aug
600.45	11 Sep
600.26	29 Oct
599.91	27 Nov
599.32	29 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	1						1	2	2	1			601.00	9
600.80							7	10	12	7			600.80	45
600.60	4					1	13	14	9	13	2		600.60	101
600.40	4				1	13	8	5	7	6	9	3	600.40	157
600.20	8	1		1	6	12	2			3	13	10	600.20	213
600.00	12	7		8	17	4					4	10	600.00	275
599.80	1	13	4	7	5						2	6	599.80	313
599.60		7	20	6	2							1	599.60	349
599.40			6	5									599.40	360
599.20			1	2								1	599.20	364
599.00				1									599.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.48	600.14	599.76	600.26	600.24	600.13	600.34	600.75	600.65	600.88	600.36	600.48
2	600.61	600.15	599.70	599.54	599.97	600.35	600.42	600.76	600.84	600.58	600.41	600.32
3	600.27	599.99	599.83	599.41	599.96	600.26	600.47	600.88	600.97	600.79	600.25	599.98
4	600.43	599.83	599.77	599.85	599.95	600.29	600.44	600.83	600.82	600.92	600.41	600.27
5	600.22	600.22	599.67	599.68	600.05	600.31	600.32	600.78	600.67	600.84	600.33	600.40
6	599.85	600.02	599.72	599.29	600.07	600.21	600.44	600.84	600.87	601.22	600.59	600.49
7	600.02	600.01	599.67	600.14	599.89	600.48	600.45	600.70	600.71	601.18	600.26	600.24
8	600.78	599.95	599.63	599.61	599.70	600.43	600.76	600.77	600.90	600.86	600.30	600.44
9	601.26	600.04	599.66	599.18	600.08	600.52	600.75	600.89	600.57	600.73	600.50	600.40
10	601.08	600.00	599.71	599.28	599.95	600.08	600.86	600.80	600.76	600.70	600.19	600.34
11	600.80	600.03	599.68	599.64	599.78	600.27	600.69	600.66	600.45	600.62	600.44	600.16*
12	600.22	600.03	599.67	599.53	600.13	600.67	600.48	600.59	600.73	600.87	600.25	600.01*
13	600.22	599.91	599.54	600.05	600.16	600.53	600.72	600.62	600.46	600.88	599.91	600.24*
14	600.27	599.80	599.76	599.90	600.21	600.41	600.65	600.56	600.59	600.86	600.78	600.12
15	600.26	599.85	599.61	599.80	600.26	600.17	600.86	600.51	601.03	600.71	600.44	600.14*
16	600.18	599.89	599.62	599.65	600.20	600.11	600.70	600.78	600.97	600.66	600.24	600.15*
17	600.11	599.91	599.67	599.54	600.30	600.33	600.56	600.91	600.80	600.60	600.29	600.30*
18	600.10	599.89	599.49	599.45	600.16	600.46	600.54	600.59	600.60	600.80	600.46	600.07
19	600.20	599.74	599.85	599.93	600.10	600.27	600.62	600.91	600.54	600.71	600.71	599.88
20	600.12	599.88	599.42	600.13	600.36	600.31	600.86	600.73	600.98	600.58	600.30	599.66
21	600.12	599.80	599.67	600.06	600.22	600.45	600.85	600.62	601.02	600.47	600.38	599.87
22	600.08	599.72	599.63	599.91	600.08	600.51	600.84	600.80	600.83	600.60	600.27	599.88
23	600.07	599.84	599.91	599.78	600.10	600.40	600.89	600.65	600.72	600.66	600.22	600.00
24	600.12	599.76	599.65	600.00	600.13	600.35	600.65	600.83	600.99	600.34	600.49	600.06
25	600.06	599.86	599.60	600.05	600.07	600.32	600.61	600.85	600.84	600.70	600.20	600.28
26	600.76	599.82	599.61	600.00	600.01	600.42	600.76	600.79	600.71	600.68	600.02	600.09
27	600.54	599.71	599.54	600.00	600.10	600.52	601.09	600.59	600.94	600.67	599.91	600.32
28	600.41	599.78	599.94	600.02	600.15	600.46	600.73	600.97	600.80	600.73	600.08	599.90
29	600.30		599.71	600.15	600.10	600.57	600.93	601.04	600.56	600.26	600.21	599.32
30	600.15		599.52	600.18	600.14	600.42	600.76	601.09	600.84	600.32	600.52	600.09
31	600.31		599.32		600.42		600.72	600.89		600.45		600.10
MEAN	600.34	599.91	599.66	599.80	600.10	600.37	600.67	600.77	600.77	600.71	600.32	600.13
MAX.	601.82	600.76	600.53	601.08	601.03	601.37	601.79	601.70	601.69	601.71	601.56	601.08
	1404/09	0654/02	1244/19	1300/01	2220/31	1651/12	1252/18	2345/16	0603/12	1109/06	0303/19	0407/08
MIN.	599.38	599.08	598.81	597.84	598.42	598.97	599.06	599.52	599.44	599.03	598.88	598.81
	1458/06	0633/25	2044/27	1537/09	0652/26	1713/16	1038/18	2107/18	0957/11	1025/30	1212/13	0907/29

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

ANNUAL MEAN: 600.30

ANNUAL SUMMARY OF LEVELS, 1978
Station 7023: Ludington, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.28	Sep	Monthly mean elevation:	578.31	Mar
Daily mean elevation:	579.73	14 Sep	Daily mean elevation:	578.03	11 Jan
Instant/hourly Elevation:	579.99	0800/14 Sep	Instant/hourly Elevation:	577.90	0300/12 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.83	7 Jan
578.54	6 Feb
578.52	26 Mar
578.96	19 Apr
579.15	30 May
579.25	16 Jun
579.31	2 Jul
579.32	28 Aug
579.73	14 Sep
579.42	3 Oct
579.29	17 Nov
579.05	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.03	11 Jan
578.24	12 Feb
578.16	19 Mar
578.36	2 Apr
578.53	1 May
578.89	13 Jun
578.98	10 Jul
578.91	17 Aug
579.02	6 Sep
578.92	31 Oct
578.55	30 Nov
578.38	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.
579.60									3				579.60	3
579.40									2	1			579.40	6
579.20						4	9	7	11	9	1		579.20	47
579.00					15	22	21	23	14	18	13	1	579.00	174
578.80	1			5	10	4	1	1		3	10	2	578.80	211
578.60	3			15	4						5	14	578.60	252
578.40	15	13	3	8	2						1	12	578.40	306
578.20	8	15	26	2								2	578.20	359
578.00	4		2										578.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7023: Ludington, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.75	578.34	578.33	578.49	578.53	579.14	579.29	579.09	579.12	579.14	578.94	578.65
2	578.56	578.48	578.29	578.36	578.58	579.10	579.31	579.17	579.08	579.27	578.84	578.63
3	578.27	578.43	578.38	578.66	578.66	579.04	579.30	579.10	579.07	579.42	579.04	579.05
4	578.48	578.52	578.28	578.60	578.83	579.09	579.22	579.03	579.02	579.23	579.01	578.95
5	578.49	578.53	578.28	578.38	578.86	579.00	579.21	579.02	579.04	579.33	579.10	578.60
6	578.69	578.54	578.33	578.64	578.70	579.05	579.17	579.06	579.02	579.38	578.87	578.43
7	578.83	578.47	578.31	578.58	578.74	579.10	579.17	579.12	579.10	579.06	578.93	578.75
8	578.53	578.50	578.31	578.46	578.97	579.02	579.15	579.08	579.25	579.14	578.91	578.82
9	578.18	578.45	578.26	578.67	578.84	578.99	579.10	579.05	579.18	579.16	578.75	578.68
10	578.03	578.37	578.28	578.94	578.65	579.05	578.98	579.06	579.26	579.25	579.14	578.54
11	578.03	578.37	578.30	578.69	578.82	579.03	579.02	579.12	579.16	579.32	579.09	578.66
12	578.15	578.24	578.27	578.57	578.93	579.04	579.08	579.14	579.38	579.16	579.06	578.66
13	578.53	578.36	578.30	578.60	579.14	578.89	579.12	579.06	579.56	579.10	579.13	578.56
14	578.64	578.47	578.39	578.44	579.11	579.00	579.11	579.08	579.73	579.27	578.85	578.50
15	578.53	578.40	578.28	578.51	579.04	579.11	579.11	579.15	579.36	579.26	578.64	578.63
16	578.45	578.42	578.40	578.62	579.05	579.25	579.04	579.26	579.22	579.34	578.84	578.58
17	578.48	578.36	578.37	578.64	578.97	579.13	579.09	578.91	579.40	579.19	579.29	578.54
18	578.50	578.32	578.26	578.81	579.01	579.14	579.15	579.25	579.69	579.12	579.01	578.62
19	578.40	578.34	578.16	578.96	578.97	579.12	579.10	579.23	579.65	579.16	578.65	578.71
20	578.51	578.43	578.19	578.76	578.97	579.21	579.20	579.05	579.51	579.08	578.91	578.80
21	578.51	578.40	578.39	578.66	578.95	579.14	579.18	579.12	579.34	579.15	579.02	578.78
22	578.40	578.31	578.29	578.68	579.04	579.09	579.29	579.09	579.31	579.10	578.90	578.58
23	578.34	578.29	578.27	578.81	579.10	579.16	579.23	579.23	579.27	579.03	579.04	578.42
24	578.38	578.32	578.21	578.84	579.06	579.18	579.12	579.24	579.23	579.08	578.88	578.72
25	578.44	578.43	578.44	578.77	579.03	579.22	579.23	579.19	579.20	578.96	578.80	578.56
26	578.29	578.33	578.52	578.74	579.06	579.24	579.21	579.15	579.16	579.04	579.04	578.38
27	578.31	578.33	578.37	578.69	579.10	579.13	579.13	579.31	579.15	579.06	579.14	578.42
28	578.35	578.41	578.31	578.67	579.10	579.13	579.09	579.32	579.20	578.92	579.06	578.38
29	578.45		578.21	578.71	579.12	579.13	579.17	579.08	579.19	579.07	578.78	578.69
30	578.43		578.27	578.71	579.15	579.16	579.17	579.13	579.40	579.05	578.55	578.80
31	578.42		578.45		579.04		579.13	579.15		578.92		578.58
MEAN	578.43	578.40	578.31	578.66	578.94	579.10	579.16	579.13	579.28	579.15	578.94	578.63
MAX.	578.98	578.65	578.67	579.14	579.51	579.54	579.59	579.67	579.99	579.66	579.66	579.71
	0600/07	0700/05	2400/31	0100/19	1100/13	0600/17	0100/23	0100/19	0800/14	0300/06	1700/17	2200/20
MIN.	577.90	578.14	577.99	578.06	578.36	578.76	578.77	578.67	578.81	578.72	578.35	578.05
	0300/12	1200/12	0300/20	0700/02	1600/01	0100/13	2000/10	1600/17	2200/04	2200/25	0900/30	1100/20

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

/ Indicates No Data.

ANNUAL MEAN: 578.84

ANNUAL SUMMARY OF LEVELS, 1978
Station 7031: Holland, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.17	Sep	Monthly mean elevation:	578.19	Mar
Daily mean elevation:	579.55	18 Sep	Daily mean elevation:	577.99	19 Mar
Instant/hourly Elevation:	579.88	1620/18 Sep	Instant/hourly Elevation:	577.51	1609/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.04	26 Jan
578.77	5 Feb
578.46	26 Mar
578.86	19 Apr
579.30	13 May
579.11	26 Jun
579.24	2 Jul
579.22	28 Aug
579.55	18 Sep
579.41	6 Oct
579.16	11 Nov
578.84	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.99	11 Jan
578.14	22 Feb
577.99	19 Mar
578.27	5 Apr
578.55	10 May
578.81	11 Jun
578.90	11 Jul
578.88	17 Aug
578.86	6 Sep
578.68	24 Oct
578.38	30 Nov
578.14	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.
579.40									5	1			579.40	6
579.20					1		2	1	5	3			579.20	18
579.00	1				6	14	17	16	12	13	1		579.00	98
578.80				4	14	16	12	14	8	11	15	1	578.80	193
578.60	5	1		10	5					3	9	7	578.60	233
578.40	8	3	1	11	5						3	12	578.40	276
578.20	11	17	10	5							2	8	578.20	329
578.00	4	7	18									3	578.00	361
577.80	1		2										577.80	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7031: Holland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.77	578.28	578.21	578.40	578.60	579.03	579.19	579.03	578.95	579.03	578.74	578.51
2	578.52	578.34	578.12	578.28	578.55	578.96	579.24	579.06	578.86	579.09	578.62	578.51
3	578.22	578.33	578.34	578.56*	578.60	578.93	579.19	579.04	579.09	579.28	578.83	578.84
4	578.36	578.38	578.18	578.46	578.76	578.96	579.07	578.89	578.92	579.08	578.88	578.68
5	578.42	578.77	578.12	578.27	578.77	578.89	579.05	578.88	578.91	579.22	578.88	578.34
6	578.50	578.54	578.26	578.56	578.61	578.88	578.99	578.92	578.86	579.41	578.79	578.41
7	578.64	578.46	578.19	578.49	578.70	578.99	579.01	578.99	578.97	579.10	578.77	578.65
8	578.67	578.45	578.18	578.42	578.83	579.01	579.01	578.88	579.18	579.10	578.52	578.65
9	578.76	578.40	578.06	578.55	578.66	578.90	578.99	579.03	579.11	579.02	578.62	578.52
10	578.26	578.26	578.15	578.83	578.55	578.88	578.92	578.98	579.13	579.10	578.95	578.41
11	577.99	578.30	578.16	578.57	578.59	578.81	578.90	579.01	579.05	579.07	579.16	578.50
12	578.07	578.17	578.13	578.40	578.83	579.05	578.92	579.02	579.29	578.99	578.94	578.32
13	578.53	578.36	578.16	578.48	579.30	578.83	578.93	578.93	579.35	579.07	578.85	578.47
14	/	578.30	578.35	578.36	579.18	578.88	578.95	578.91	579.51	579.20	578.72	578.14
15	578.35*	578.25	578.16	578.44	579.08	578.94	579.02	578.94	579.14	579.15	578.55*	578.40
16	578.41	578.26	578.29	578.54	579.05	579.03	578.96	579.05	579.20	579.35	578.75	578.45
17	578.44	578.20	578.30	578.58	578.92	579.00	578.97	578.88	579.41	578.94	578.98	578.32
18	578.31	578.24	578.00	578.73	578.91	579.00	578.93	579.02	579.55	578.98	578.91	578.56
19	578.34	578.17	577.99	578.86	578.87	579.02	578.95	579.12	579.51	579.00	578.60	578.54
20	578.45	578.28	578.03	578.82	578.95	579.07	579.08	578.90	579.47	578.90	578.85	578.71
21	578.32	578.30	578.24	578.69	578.93	579.00	579.12	578.96	579.34	578.88	578.92	578.65
22	578.19	578.14	578.13	578.65	578.97	578.94	579.12	578.92	579.26	579.02	578.82	578.39
23	578.03	578.18	578.20	578.76	579.05	579.07	579.19	579.02	579.18	579.01	578.96	578.19
24	578.16	578.16	578.14	578.78	578.99	579.07	579.09	579.12	579.15	578.68	578.79	578.60
25	578.32	578.38	578.37	578.77	578.94	579.09	579.08	579.11	579.18	578.69	578.73	578.41
26	579.04	578.27	578.46	578.72	578.96	579.11	579.08	579.09	578.94	578.92	578.90	578.28
27	578.66	578.20	578.21	578.67	578.99	579.06	579.11	579.19	579.17	578.90	579.00	578.28
28	578.45	578.37	578.17	578.63	579.00	579.03	578.94	579.22	579.05	578.87	578.87	578.14
29	578.38		578.16	578.80	579.03	579.03	579.23	578.99	578.97	578.89	578.40	578.37
30	578.26		578.10	578.82	579.03	579.08	579.12	579.09	579.28	578.72	578.38	578.65
31	578.39		578.25		578.96		579.01	579.09		578.85		578.67
MEAN	578.41	578.31	578.19	578.60	578.88	578.98	579.04	579.01	579.17	579.02	578.79	578.47
MAX.	579.30	578.96	578.67	579.14	579.53	579.33	579.49	579.48	579.88	579.84	579.73	579.26
	0650/26	1130/05	0505/14	1807/10	0636/13	2358/17	1300/29	1210/19	1620/18	0005/06	0030/18	1656/03
MIN.	577.80	577.97	577.51	577.89	578.40	578.64	578.78	578.63	578.71	578.50	578.03	577.99
	2227/11	1240/24	1609/18	0100/02	0755/06	1212/11	0057/11	2015/19	1915/04	1900/24	0743/29	0745/28

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

ANNUAL MEAN: 578.74

ANNUAL SUMMARY OF LEVELS, 1978

Station 7044: Calumet Harbor, Illinois on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.31	Sep	Monthly mean elevation:	578.35	Mar
Daily mean elevation:	579.84	18 Sep	Daily mean elevation:	577.76	14 Dec
Instant/hourly Elevation:	580.45	1800/17 Jun	Instant/hourly Elevation:	576.98	1600/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
579.27	26 Jan
579.20	5 Feb
579.05	25 Mar
579.23	30 Apr
579.55	13 May
579.21	8 Jun
579.35	29 Jul
579.21	27 Aug
579.84	18 Sep
579.72	16 Oct
579.49	11 Nov
579.22	31 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.91	11 Jan
578.09	24 Feb
577.79	18 Mar
578.34	12 Apr
578.49	11 May
578.74	11 Jun
578.93	18 Jul
578.84	8 Aug
578.74	6 Sep
578.43	25 Oct
578.03	29 Nov
577.76	14 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									5	1			579.60	7
579.40					2				4	2	1		579.40	16
579.20	1			1	1	1	5	1	6	2	3	1	579.20	38
579.00	1	2	1	3	14	25	20	16	8	9	4	1	579.00	142
578.80	6		2	8	8	3	6	14	3	13	9	4	578.80	218
578.60	5	3		8	3	1			1	2	8	5	578.60	254
578.40	8	8	5	8	3					2	2	5	578.40	295
578.20	3	13	18	2							1	7	578.20	339
578.00	5	2	3								2	7	578.00	358
577.80	2		1										577.80	361
577.60			1									1	577.60	363
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7044: Calumet Harbor, Illinois on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.93	578.38	578.44	578.49	578.98	579.09	579.23	579.11	579.02	579.16	578.89	578.66
2	578.35	578.51	578.34	578.57	578.79	579.02	579.32	579.11	578.97*	579.10	578.69	578.88
3	578.09	578.51	578.57	578.77	578.74	579.03	579.27	579.16	/	579.14	578.86	578.83
4	578.19	578.39	578.37	578.49	579.13	579.02	579.15	579.03	579.11*	578.98	578.90	578.10
5	578.56	579.20	578.15	578.38	579.04	579.05	579.20	578.95	/	578.98	578.90	578.12
6	578.63	579.11	578.37	578.63	578.76	578.94	578.98	579.00	578.74*	579.44	578.97	578.56
7	578.78	578.79	578.47	578.50	578.86	579.04	579.08	579.10	578.96	579.27	578.91	579.07
8	578.88	578.65	578.47	578.69	578.81	579.21	579.06	578.84	579.18	579.16	578.19	579.00
9	578.87	578.54	578.15	578.68	578.57	579.08	579.10	579.02	579.19	578.88	578.52	578.51
10	578.27	578.34	578.27	578.89	578.56	578.92	579.15	579.06	579.14	579.05	579.04	578.38
11	577.91	578.36	578.31	578.58	578.49	578.74	579.04	579.08	579.04	578.95	579.49	578.42
12	578.20	578.30	578.25	578.34	578.91	579.18	578.95	579.05	579.60	578.95	579.32	578.12
13	578.92	578.69	578.29	578.48	579.55	579.06	578.96	578.97	579.66	579.13	578.80	578.39
14	579.19	578.41	578.53	578.43	579.54	579.08	579.03	578.98	579.53	579.44	578.57	577.76
15	578.59	578.21	578.30	578.52	579.32	579.03	579.13	578.93	579.20	579.18	578.73	578.18
16	578.53	578.23	578.37	578.67	579.17	579.13	579.07	578.86	579.38	579.72	579.08	578.38
17	578.88	578.21	578.39	578.83	578.98	579.03	579.06	578.85	579.68	578.98	578.74	578.26
18	578.61	578.35	577.79	579.01	579.00	579.20	578.93	578.93	579.84	578.91	578.66	578.61
19	578.79	578.21	577.99	579.02	578.90	579.10	579.01	579.08	579.71	578.91	578.69	578.83
20	578.89	578.36	578.14	578.99	579.01	579.13	579.16	578.95	579.67	578.92	579.13	578.69
21	578.54	578.45	578.26	578.92	579.13	579.11	579.20	578.91	579.84	578.78	579.18	578.52
22	578.20	578.22	578.22	578.77	579.09	578.99	579.11	578.87	579.57	579.08	578.98	578.12
23	577.92	578.20	578.34	578.86	579.13	579.20	579.24	579.00	579.36	579.34	578.83	578.18
24	578.14	578.09	578.84	578.82	579.02	579.16	579.16	579.03	579.21	578.53	578.78	578.67
25	578.53	578.44	579.05	579.06	579.04	579.11	579.03	579.12	579.47	578.43	578.84	578.50
26	579.27	578.41	578.82	578.90	579.08	579.06	578.94	579.17	578.96	578.90	579.32	578.35
27	578.67	578.28	578.31	578.75	579.01	579.04	579.10	579.21	579.28	578.86	579.27	578.35
28	578.53	578.52	578.21	578.68	579.08	579.06	578.98	579.10	579.28	579.00	578.70	578.20
29	578.54		578.34	578.95	579.06	579.11	579.35	578.92	579.04	578.93	578.03	578.40
30	578.38		578.28	579.23	579.01	579.07	579.16	579.11	579.34	578.64	578.37	578.80
31	578.42		578.28		579.00		579.12	579.12		579.02		579.22
MEAN	578.55	578.44	578.35	578.73	578.99	579.07	579.11	579.02	579.31	579.02	578.85	578.49
MAX.	579.64	579.56	579.30	579.92	579.94	580.45	579.91	579.78	580.27	580.06	579.81	579.81
	0800/26	1300/05	0200/25	2300/30	2300/13	1800/17	2200/20	1500/19	1700/18	0200/16	0300/27	1500/20
MIN.	577.53	577.72	576.98	577.77	578.11	577.61	578.26	578.02	578.55	578.05	577.51	577.40
	0100/04	1300/24	1600/18	1000/12	1100/11	0500/16	2200/28	0900/22	2400/26	0800/25	0400/29	1800/04

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

ANNUAL MEAN: 578.83

ANNUAL SUMMARY OF LEVELS, 1978
Station 7057: Milwaukee, Wisconsin on Lake Michigan

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.26	Sep	Monthly mean elevation:	578.28	Mar
Daily mean elevation:	579.80	13 Sep	Daily mean elevation:	577.97	11 Jan
Instant/hourly Elevation:	580.15	1600/18 Sep	Instant/hourly Elevation:	577.60	1500/18 Mar

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
578.91	14 Jan
578.88	6 Feb
578.73	25 Mar
578.97	18 Apr
579.52	13 May
579.25	25 Jun
579.39	2 Jul
579.21	27 Aug
579.80	13 Sep
579.44	16 Oct
579.32	11 Nov
579.03	3 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
577.97	11 Jan
578.08	17 Feb
578.02	19 Mar
578.39	5 Apr
578.59	10 May
578.92	13 Jun
578.98	10 Jul
578.82	17 Aug
578.85	6 Sep
578.72	24 Oct
578.40	30 Nov
578.14	14 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				579.60	4
579.40					1				5	1			579.40	11
579.20						1	5	1	7	3	3		579.20	31
579.00					13	23	24	17	8	14	3	1	579.00	134
578.80	3	1		9	10	6	2	13	6	11	14	3	578.80	212
578.60	6	3	2	9	6					2	5	8	578.60	253
578.40	13	5	2	10	1						4	10	578.40	298
578.20	5	9	18	2							1	8	578.20	341
578.00	3	10	9									1	578.00	364
577.80	1												577.80	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7057: Milwaukee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.82	578.37	578.22	578.45	578.66	579.05	579.28	579.10	579.04	579.08	578.84	578.55
2	578.37	578.50	578.20	578.60	578.65	579.00	579.39	579.10	578.88	579.18	578.72	578.69
3	578.20	578.50	578.30	578.71	578.67	579.01	579.24	579.09	579.00	579.20	578.94	579.03
4	578.45	578.52	578.11	578.53	578.94	579.02	579.20	578.98	578.97	579.03	578.94	578.52
5	578.60	578.76	578.11	578.39	578.86	578.94	579.19	578.96	578.93	579.16	578.91	578.27
6	578.75	578.88	578.20	578.74	578.71	578.99	579.14	579.02	578.85	579.24	578.85	578.52
7	578.80	578.71	578.23	578.54	578.81	579.08	579.05	579.08	579.02	579.08	578.92	578.86
8	578.54	578.65	578.19	578.56	578.94	579.07	579.05	578.91	579.15	579.14	578.60	578.71
9	578.43	578.54	578.15	578.74	578.64	579.01	579.06	578.98	579.11	579.10	578.71	578.46
10	578.10	578.33	578.24	578.94	578.59	579.01	578.98	579.02	579.15	579.18	579.10	578.43
11	577.97	578.32	578.22	578.58	578.70	578.92	579.00	579.07	579.06	579.11	579.32	578.58
12	578.24	578.21	578.23	578.50	578.94	579.04	579.06	579.04	579.56	578.94	579.17	578.42
13	578.81	578.51	578.34	578.46	579.52	578.92	579.04	578.96	579.80	579.11	579.00	578.31
14	578.91	578.40	578.40	578.40	579.16	579.00	579.02	578.99	579.64	579.26	578/59	578.14
15	578.54	578.19	578.28	578.48	579.10	579.09	579.06	579.04	579.26	579.22	578.66	578.40
16	578.53	578.19	578.32	578.60	579.08	579.12	579.02	578.93	579.31	579.44	578.95	578.43
17	578.78	578.08	578.30	578.69	578.94	579.04	579.09	578.82	579.58	579.06	579.10	578.31
18	578.56	578.15	578.02	578.97	578.96	579.13	579.04	579.06	579.77	578.99	578.79	578.67
19	578.63	578.12	578.02	578.92	578.90	579.08	579.03	578.99	579.68	578.95	578.60	578.89
20	578.77	578.27	578.20	578.87	578.95	579.19	579.10	578.94	579.59	578.98	579.00	578.77
21	578.56	578.26	578.30	578.75	578.98	579.02	579.14	578.99	579.41	578.94	579.00	578.62
22	578.31	578.14	578.23	578.73	579.03	579.02	579.22	578.94	579.46	579.04	578.94	578.28
23	578.19	578.12	578.30	578.90	579.11	579.14	579.18	579.06	579.33	579.10	578.96	578.32
24	578.32	578.14	578.53	578.87	579.03	579.17	579.14	579.09	579.22	578.72	578.76	578.64
25	578.52	578.27	578.73	578.84	579.03	579.25	579.14	579.08	579.31	578.73	578.81	578.41
26	578.79	578.16	578.64	578.75	579.07	579.14	579.07	579.10	578.99	578.90	579.25	578.27
27	578.50	578.19	578.34	578.69	579.08	579.03	579.05	579.21	579.14	578.91	579.28	578.34
28	578.44	578.31	578.26	578.69	579.09	579.05	579.04	579.14	579.21	578.90	578.84	578.47
29	578.51		578.22	578.85	579.12	579.05	579.19	578.92	579.14	578.99	578.44	578.72
30	578.43		578.27	578.92	579.09	579.19	579.24	579.06	579.23	578.82	578.40	578.77
31	578.37		578.45		579.01		579.12	579.11		578.89		578.89
MEAN	578.51	578.35	578.28	578.69	578.95	579.06	579.12	579.03	579.26	579.04	578.88	578.54
MAX.	579.32	579.01	578.85	579.38	579.99	579.73	579.78	579.63	580.15	579.62	579.56	579.65
	0600/26	1300/06	1300/25	2400/10	0600/13	0800/26	0100/02	0300/19	1600/18	0500/16	0500/27	0400/03
MIN.	577.74	577.94	577.60	577.79	578.34	578.38	578.63	578.52	578.68	578.37	578.11	577.92
	2000/11	0800/24	1500/18	1000/12	1800/06	0800/17	0100/21	1100/16	1900/06	0700/25	0700/29	2200/05

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

ANNUAL MEAN: 578.81

ANNUAL SUMMARY OF LEVELS, 1978
Station 7068: Kewaunee, Wisconsin on Lake Michigan

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.22	Sep	Monthly mean elevation:	578.25	Mar
Daily mean elevation:	579.78	13 Sep	Daily mean elevation:	577.85	11 Jan
Instant/hourly Elevation:	580.07	2100/18 Sep	Instant/hourly Elevation:	577.75	1600/11 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.72	7 Jan
578.51	6 Feb
578.46	26 Mar
578.86	10 Apr
579.12	30 May
579.22	16 Jun
579.24	1 Jul
579.24	27 Aug
579.78	13 Sep
579.26	16 Oct
579.15	17 Nov
579.03	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.85	11 Jan
578.18	18 Feb
577.98	19 Mar
578.29	5 Apr
578.50	1 May
578.87	13 Jun
578.93	10 Jul
578.81	17 Aug
578.88	6 Sep
578.69	25 Oct
578.30	30 Nov
578.26	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.
579.60									4				579.60	4
579.40									2				579.40	6
579.20						2	2	2	7	2			579.20	21
579.00					6	16	24	15	11	15	6	1	579.00	115
578.80				2	14	12	5	14	6	12	12	1	578.80	193
578.60	3			12	6					2	7	4	578.60	227
578.40	7	5	3	12	5						4	14	578.40	277
578.20	15	19	20	4							1	11	578.20	347
578.00	2	4	7										578.00	360
577.80	2		1										577.80	363
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7068: Kewaunee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	578.26	578.24	578.32	578.50	579.14	579.24	579.04	579.07	578.99	578.84	578.49
2	/	578.38	578.24	578.44	578.54	579.00	579.22	579.11	578.90	579.20	578.74	578.59
3	578.21*	578.39	578.26	578.63	578.57	579.00	579.16	579.01	578.91	579.23	578.97	579.03
4	578.33	578.49	578.18	578.49	578.73	579.03	579.15	578.95	578.93	579.04	578.88	578.72
5	578.44	578.32	578.22	578.29	578.72	578.94	579.17	578.94	578.97	579.18	578.95	578.30
6	578.72	578.51	578.26	578.61	578.60	579.00	579.09	578.96	578.88	579.15	578.76	578.34
7	578.72	578.44	578.28	578.45	578.69	579.00	579.09	579.04	578.99	579.02	578.88	578.69
8	578.32	578.46	578.29	578.40	578.93	578.99	579.02	578.97	579.12	579.14	578.77	578.58
9	578.17	578.36	578.23	578.68	578.68	578.93	579.04	578.90	579.17	579.10	578.63	578.44
10	577.98	578.27	578.21	578.86	578.56	579.06	578.93	578.95	579.23	579.14	579.11	578.38
11	577.85	578.25	578.28	578.58	578.80	578.95	578.95	579.02	579.15	579.15	578.99	578.54
12	578.09	578.19	578.23	578.51	578.76	578.97	579.06	579.02	579.54	578.91	579.06	578.53
13	578.51	578.31	578.25	578.42	578.94	578.87	579.01	578.95	579.78	579.03	579.08	578.28
14	578.64	578.41	578.31	578.34	578.99	578.97	579.01	578.97	579.63	579.16	578.54	578.39
15	578.44	578.26	578.23	578.42	578.94	579.11	579.00	579.08	579.21	579.14	578.56	578.46
16	578.36	578.26	578.32	578.53	578.91	579.22	578.95	578.98	579.17	579.26	578.88	578.41
17	578.51	578.20	578.24	578.58	578.85	579.11	579.07	578.81	579.37	579.04	579.15	578.33
18	578.47	578.18	578.15	578.83	578.92	579.04	579.06	579.04	579.68	578.93	578.80	578.56
19	578.39*	578.26	577.98	578.79	578.90	579.07	579.03	579.02	579.65	578.97	578.52	578.77
20	578.51	578.30	578.18	578.63	578.90	579.14	579.04	578.92	579.46	579.00	578.86	578.86
21	578.44	578.27	578.26	578.60	578.92	579.03	579.08	579.01	579.36	579.03	578.87	578.60
22	578.30	578.24	578.19	578.62	578.99	579.00	579.17	578.90	579.32	578.92	578.85	578.38
23	578.22	578.20	578.14	578.77	579.02	579.05	579.11	579.05	579.23	578.96	578.94	578.33
24	578.26	578.26	578.24	578.69	578.98	579.11	579.12	578.99	579.07	578.90	578.70	578.58
25	578.38	578.28	578.43	578.64	578.99	579.21	579.16	579.07	579.16	578.69	578.72	578.39
26	578.37	578.22	578.46	578.63	579.02	579.17	579.04	579.10	579.08	578.87	579.03	578.28
27	578.40	578.27	578.31	578.59	579.03	579.02	578.98	579.24	579.01	578.88	579.13	578.26
28	578.28	578.31	578.19	578.61	579.04	579.02	579.04	579.22	579.13	578.82	578.93	578.45
29	578.30		578.13	578.60	579.08	579.02	579.05	579.00	579.14	579.01	578.54	578.77
30	578.30		578.24	578.66	579.12	579.09	579.13	579.09	579.21	578.89	578.30	578.57
31	578.27		578.43		578.96		579.12	579.14		578.75		578.46
MEAN	578.35	578.31	578.25	578.57	578.86	579.04	579.07	579.02	579.22	579.02	578.83	578.51
MAX.	578.92	578.58	578.65	579.25	579.30	579.50	579.36	579.57	580.07	579.54	579.60	579.70
	1700/06	1200/04	1900/31	2400/18	1000/30	2200/25	1100/25	2300/15	2100/18	1300/03	1100/17	1400/20
MIN.	577.75	578.10	577.83	578.05	578.36	578.78	578.74	578.31	578.58	578.28	578.10	577.92
	1600/11	1600/12	0300/19	2100/01	1900/01	0500/13	1500/27	1300/17	0500/05	1000/25	1400/30	1600/20

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

ANNUAL MEAN: 578.75

ANNUAL SUMMARY OF LEVELS, 1978

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.25	Sep	Monthly mean elevation:	578.20	Mar
Daily mean elevation:	579.61	19 Sep	Daily mean elevation:	577.82	11 Jan
Instant/hourly Elevation:	579.91	0900/18 Sep	Instant/hourly Elevation:	577.69	0300/12 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.71	7 Jan
578.45	6 Feb
578.41	26 Mar
578.82	18 Apr
579.01	30 May
579.05	25 Jun
579.16	2 Jul
579.28	27 Aug
579.61	19 Sep
579.25	16 Oct
579.16	17 Nov
579.02	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.82	11 Jan
578.12	12 Feb
577.90	19 Mar
578.14	5 Apr
578.45	1 May
578.83	13 Jun
578.87	10 Jul
578.80	17 Aug
578.95	27 Sep
578.63	25 Oct
578.24	30 Nov
578.18	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.
579.60									2				579.60	2
579.40									3				579.40	5
579.20								2	4	2			579.20	13
579.00					1	5	14	15	8	11	4	1	579.00	72
578.80				3	19	25	17	13	2	14	12		578.80	177
578.60	3			4	6			1		4	9	6	578.60	210
578.40	5	3	1	16	5						4	13	578.40	257
578.20	17	20	11	6							1	9	578.20	321
578.00	4	5	18	1								2	578.00	351
577.80	2		1										577.80	354
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.60	578.22	578.21	578.25	578.45	579.01	579.11	579.02	/	579.00	578.80	578.46
2	578.31	578.34	578.18	578.30	578.49	578.95	579.16	579.04	/	579.15	578.68	578.53
3	578.12	578.37	578.23	578.56	578.51	578.94	579.13	578.97	/	579.21	578.93	579.02
4	578.27	578.45	578.15	578.44	578.64	578.96	579.09	578.92	/	579.03	578.88	578.69
5	578.40	578.25	578.17	578.14	578.68	578.84	579.01	578.91	/	579.17	578.97	578.19
6	578.71	578.45	578.20	578.59	578.53	578.93	579.02	578.96	/	579.17	578.68	578.42
7	578.71	578.35	578.20	578.44	578.66	578.90	579.02	579.05	/	579.01	578.86	578.64
8	578.27	578.42	578.22	578.27	578.86	578.93	578.96	578.97	/	579.08	578.66	578.57
9	578.05	578.33	578.19	578.58	578.68	578.88	578.94	578.91	/	579.04	578.61	578.42
10	577.91	578.23	578.17	578.82	578.55	578.96	578.87	578.96	/	579.12	579.07	578.34
11	577.82	578.23	578.22	578.56	578.75	578.86	578.91	579.01	/	579.10	578.95	578.50
12	578.04	578.12	578.15	578.48	578.71	578.85	578.93	579.01	579.42*	578.88	578.99	578.44
13	578.46	578.25	578.19	578.40	578.87	578.83	578.95	578.94	579.60	578.99	578.98	578.26
14	578.61	578.38	578.20	578.34	578.98	578.87	578.96	578.93	579.57	579.13	578.51	578.32
15	578.40	578.25	578.19	578.39	578.92	579.01	578.94	579.03	579.11	579.09	578.54	578.41
16	578.32	578.27	578.30	578.49	578.89	579.00	578.92	579.01	579.14	579.25	578.80	578.39
17	578.46	578.21	578.22	578.51	578.85	578.90	579.02	578.80	579.28	578.99	579.16	578.27
18	578.40	578.16	578.15	578.82	578.90	578.91	578.99	579.05	579.61	578.84	578.69	578.52
19	578.29	578.25	577.90	578.81	578.86	578.98	578.98	579.08	579.61	578.89	578.52	578.74
20	578.43	578.28	578.13	578.61	578.84	579.05	578.96	578.98	579.40	578.90	578.86	578.79
21	578.42	578.24	578.26	578.55	578.87	578.97	578.99	578.98	579.27	578.98	578.90	578.57
22	578.29	578.21	578.19	578.58	578.91	578.97	579.06	578.88	579.25	578.88	578.82	578.30
23	578.22	578.16	578.12	578.74	578.93	578.98	579.05	579.05	579.13	578.94	578.91	578.31
24	578.23	578.17	578.14	578.67	578.91	579.03	579.06	578.99	579.04	578.78	578.67	578.55
25	578.23	578.24	578.35	578.60	578.91	579.05	579.05	579.10	579.12	578.63	578.76	578.39
26	578.18	578.20	578.41	578.56	578.96	579.00	578.99	579.16	579.00	578.85	579.03	578.22
27	578.28	578.25	578.26	578.56	578.98	578.94	578.98	579.28	578.95	578.87	579.14	578.18
28	578.21	578.24	578.16	578.59	578.97	578.93	578.95	579.15	579.07	578.80	578.91	578.42
29	578.28		578.11	578.56	578.99	578.96	578.99	579.04	579.09	578.98	578.48	578.76
30	578.29		578.22	578.63	579.01	579.00	579.11	579.17	579.18	578.82	578.24	578.63
31	578.26		578.37		578.83		579.06	579.26		578.73		578.50
MEAN	578.31	578.27	578.20	578.53	578.80	578.95	579.01	579.02	579.25	578.98	578.80	578.48
MAX.	578.88	578.60	578.61	579.06	579.19	579.25	579.26	579.44	579.91	579.40	579.59	579.36
	2300/06	0500/04	2300/31	0100/19	1200/20	1600/16	1700/02	0700/27	0900/18	1700/05	1700/17	0700/03
MIN.	577.69	577.99	577.73	577.79	578.24	578.46	578.73	578.54	578.67	578.45	578.07	578.04
	0300/12	0700/12	0100/24	1300/05	1200/03	1800/16	1500/05	2100/16	0200/27	1000/25	1300/30	2400/25

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

ANNUAL MEAN: 578.72

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	579.17	Sep	Monthly mean elevation:	578.19	Mar
Daily mean elevation:	580.16	12 Sep	Daily mean elevation:	577.69	5 Dec
Instant/hourly Elevation:	580.59	0800/12 Sep	Instant/hourly Elevation:	576.61	1200/19 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.58	13 Jan
578.42	8 Feb
578.43	31 Mar
579.05	30 Apr
579.02	4 May
579.21	7 Jun
579.33	22 Jul
579.23	27 Aug
580.16	12 Sep
579.47	16 Oct
579.75	11 Nov
579.15	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.85	26 Jan
578.16	5 Feb
577.82	19 Mar
578.16	1 Apr
578.39	10 May
578.59	29 Jun
578.77	12 Jul
578.74	17 Aug
578.39	26 Sep
578.09	24 Oct
577.81	29 Nov
577.69	5 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									3				580.00	3
579.80													579.80	3
579.60									1		1		579.60	5
579.40									3	1			579.40	9
579.20						1	1	1	3	2	4		579.20	21
579.00				2	1	7	3	8	9	8		1	579.00	60
578.80				4	14	16	16	15	8	9	8	2	578.80	152
578.60				5	5	5	2	6	2	8	4	4	578.60	193
578.40	3	2	2	12	7	1				1	5	5	578.40	231
578.20	13	5	6	5	1				1	1	3	9	578.20	275
578.00	1	1	13	2						1	1	8	578.00	302
577.80	2		1								3	1	577.80	309
577.60												1	577.60	310
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	578.22	/	578.16	578.47	578.89	/	/	578.84	579.01	578.57	578.35
2	/	578.29	/	578.40	578.45	578.85	/	579.10*	578.65	579.04	578.57	578.53
3	/	578.34*	/	578.65	578.56	578.89	/	578.89	579.02	579.15*	578.81	579.15
4	/	578.42*	/	578.48	579.02	578.93	/	578.78	578.89*	578.72*	578.92	577.98
5	/	578.16	/	578.17	578.96	578.77	/	578.75	578.85*	579.34	578.82	577.69
6	/	578.34	/	578.60	578.60	578.80	/	578.87	578.64	579.13	578.68	578.22
7	/	578.27	/	578.41	578.75	579.21	578.83*	578.95	579.13	579.00	578.64	578.62
8	/	578.42*	/	578.37	578.76	578.91	578.95	578.77	579.24	578.92	577.94	578.42
9	/	/	/	578.68	578.48	578.93	578.92	578.90	579.18	578.90	578.91	578.24
10	/	/	578.20*	578.83	578.39	578.68	578.91	578.88	579.19	579.07	579.37	578.14
11	/	/	578.19	578.58*	578.55	578.71	578.88*	578.97	579.20	578.87	579.75*	578.38
12	/	/	578.15	578.43*	578.49*	579.06	578.77	578.93	580.16	578.66	/	578.29
13	578.58*	/	578.23	578.28	/	578.83*	578.92	578.85	580.09	579.08	578.36*	578.03
14	578.57	/	578.19	578.23	/	578.79	578.95	578.77	579.52	579.18	578.04	578.04
15	578.41	/	578.14	578.32	/	578.97	578.97	578.92	578.89	579.35	578.40	578.20
16	578.26	/	578.25	578.43	578.87*	579.01	578.93	578.81	579.23	579.47	578.82	578.25
17	578.38	/	578.15	578.56	578.76	578.99	578.95	578.74	579.47	578.68	579.36	578.09
18	578.40	/	578.18	579.05	578.79	578.93	578.86	578.98	580.06	578.80	578.30	578.73
19	578.23	/	577.82	578.87	578.71	578.89	578.94	579.00	579.62	578.75	578.48	578.82
20	578.35	/	578.20	578.80	578.95	579.00	579.14	578.88	579.45	578.82	578.93	578.78
21	578.40	/	578.23	578.51	578.97	578.94	579.18	578.78	579.23	578.89	578.83	578.41
22	578.30	/	578.17	578.52	578.89	578.92	579.33	578.87	579.12	579.05	578.77	578.01
23	578.27	/	578.07	578.75	578.93	579.02*	579.06	579.15	578.84	578.97	578.86	578.26
24	578.24	/	578.15	578.81	578.87	579.03	578.95	579.17	579.00	578.09	578.47	578.57
25	578.33	/	578.38	578.71	578.89	579.11*	578.88	579.08	579.02	578.36	578.70	578.30
26	577.85	/	578.41	578.55	578.88	579.02*	578.89	579.08	578.39	578.78	579.39	578.11
27	577.98	/	578.27	578.53	578.94	578.88*	579.00	579.23	579.16	578.70	579.23	578.06
28	578.13	/	578.07	578.54	578.98	578.98*	578.80*	579.15	578.97	578.87	578.59	578.45
29	578.25		578.03	578.97	578.98	578.59*	/	578.84	578.93	578.84	577.81	578.84
30	578.28		578.21	579.05	578.90	579.19*	/	579.12	579.15	578.51	577.97	578.61
31	578.22		578.43		578.94		/	579.11		578.71		578.30
MEAN	578.29	578.31	578.19	578.57	578.78	578.92	578.96	578.94	579.17	578.89	578.70	578.35
MAX.	578.92	578.91	579.38	580.15	580.03	580.16	580.11	579.72	580.59	580.38	580.57	579.80
	1100/13	1700/04	0600/19	1900/30	1400/20	0600/18	1900/22	0800/24	0800/12	2100/15	0600/18	2200/03
MIN.	577.26	577.94	576.61	577.33	577.55	578.00	578.24	578.08	577.38	577.42	576.92	576.78
	1800/26	1700/05	1200/19	0300/05	1200/01	0300/11	1200/18	0800/16	1100/26	1200/24	0200/14	0400/05

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

/ Indicates No Data.

ANNUAL MEAN: 578.67

ANNUAL SUMMARY OF LEVELS, 1978
Station 7096: Port Inland, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	579.12	Sep	Monthly mean elevation:	578.11	Mar
Daily mean elevation:	579.56	14 Sep	Daily mean elevation:	577.60	26 Jan
Instant/hourly Elevation:	580.29	1830/17 Nov	Instant/hourly Elevation:	576.93	0652/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
578.67	7 Jan
578.40	4 Feb
578.36	18 Mar
578.73	10 Apr
578.99	30 May
579.10	26 Jun
579.19	25 Jul
579.25	27 Aug
579.56	14 Sep
579.32	24 Oct
579.18	17 Nov
578.99	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
577.60	26 Jan
578.01	12 Feb
577.91	19 Mar
578.12	2 Apr
578.24	1 May
578.71	13 Jun
578.78	10 Jul
578.75	17 Aug
578.85	27 Sep
578.67	28 Oct
578.31	30 Nov
578.12	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									3				579.40	3
579.20								1	5	4			579.20	13
579.00						6	15	11	14	10	4		579.00	73
578.80					13	21	15	18	7	14	9	2	578.80	172
578.60	2			2	9	3	1	1		3	12	3	578.60	208
578.40				14	7						4	13	578.40	246
578.20	13	6	4	10	2						1	10	578.20	292
578.00	12	22	22	4								3	578.00	355
577.80	1		5										577.80	361
577.60	2												577.60	363
577.40	1												577.40	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7096: Port Inland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	578.37	578.16	578.10	578.13	578.24	579.02	579.11	578.95	579.13	578.93	578.95	578.44
2	578.32	578.23	578.08	578.12	578.36	578.87	579.10	579.06	579.08	579.23	578.73	578.41
3	578.17	578.19	578.03	578.45	578.41	578.87	579.06	578.95	578.87	579.32*	578.96	578.87
4	578.30	578.40	578.03	578.28	578.51	578.92	579.05	578.96	579.03	579.09*	578.77	578.99
5	578.25	578.02	578.07	578.14	578.50	578.84	579.11	579.01	579.08	579.07	579.01	578.43
6	578.67	578.12	578.04	578.47	578.48	578.97	579.06	578.95	579.01	578.88	578.63	578.35
7	578.67	578.06	578.00	578.28	578.54	578.85	579.05	579.03	579.01	578.71	578.83	578.59
8	578.04	578.18	578.10	578.13	578.80	578.83	578.94	579.05	579.09	578.97	579.15	578.55
9	577.76	578.17	578.20	578.49	578.68	578.79	578.95	578.90	579.09	579.02*	578.53	578.40
10	577.76	578.18	578.11	578.73	578.49	579.05	578.78	578.93	579.10	579.05	578.93	578.37
11	577.87	578.16	578.17	578.48	578.85	578.94	578.87	578.99	578.96	579.19	578.61	578.54
12	578.04	578.01	578.09	578.39	578.64	578.74	579.00	579.00	579.07	578.93	578.72	578.73
13	578.20	578.02	578.15	578.41	578.55	578.71	578.97	578.95	579.42	578.88	579.14	578.25
14	578.23	578.35	578.13	578.26	578.75	578.82	578.96	579.00	579.56	578.97	578.64	578.50
15	578.24	578.31	578.10	578.34	578.71	578.95	578.90	579.08	579.04	578.94	578.53	578.53
16	578.18	578.24	578.20	578.43	578.76	579.06	578.85	579.13	578.92*	579.07	578.74	578.35
17	578.18	578.21	578.14	578.38	578.76	578.99	578.97	578.75	/	579.11	579.18	578.24
18	578.22	578.06	578.36	578.52	578.83	578.99	579.08	579.04	579.51*	578.82	578.94	578.25
19	578.11	578.17	577.91	578.58	578.86	578.97	579.00	578.90	579.40	578.94	578.42	578.46
20	578.17	578.18	578.12	578.31	578.74	579.07	578.91	578.90	579.12	579.01	578.67	578.67
21	578.26	578.08	578.21	578.39	578.74	578.97	579.01	579.06	578.97	579.07	578.73	578.53
22	578.32	578.11	578.15	578.46	578.81	578.91	578.99	578.94	579.10	578.81	578.66	578.45
23	578.38	578.16	577.92	578.62	578.86	578.94	578.97	579.20	579.22	578.81	578.81	578.21
24	578.24	578.12	577.94	578.51	578.83	578.99	579.03	579.00	578.98	579.32	578.60	578.48
25	578.16	578.10	578.06	578.45	578.82	579.06	579.19	578.98	579.00	578.89	578.63	578.27
26	577.60	578.06	578.19	578.50	578.90	579.10	579.08	579.02	579.38	578.91	578.75	578.15
27	578.03	578.11	578.20	578.49	578.88	578.94	578.86	579.25	578.85	578.91	578.94	578.20
28	578.10	578.12	578.14	578.50	578.89	578.96	579.03*	579.13	579.07	578.67	578.93	578.31
29	578.17		577.99	578.37	578.89	578.97	578.92	578.95	579.21	579.03	578.88	578.79
30	578.29		578.21	578.40	578.99	579.00	579.01	578.90	579.21	579.24	578.31	578.51
31	578.25		578.29		578.84		579.05	578.99		578.71		578.12
MEAN	578.18	578.15	578.11	578.40	578.71	578.94	579.00	579.00	579.12	578.98	578.78	578.45
MAX.	578.99	578.61	579.19	579.44	579.44	579.75	579.72	579.93	580.07	579.86	580.29	579.51
	1820/06	1547/04	1550/18	0012/11	0330/30	2120/16	1341/22	0625/16	1105/14	1207/24	1830/17	1750/04
MIN.	576.93	577.69	577.47	577.50	577.93	578.19	577.87	577.91	578.32	578.34	577.87	577.82
	0652/26	1313/05	2145/23	2305/01	0552/13	2128/17	1348/22	0412/23	1050/27	0114/31	0100/30	1310/13

ANNUAL MEAN: 578.65

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

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	601.05	Sep	Monthly mean elevation:	600.15	Apr
Daily mean elevation:	601.63	9 Jan	Daily mean elevation:	599.72	29 Dec
Instant/hourly Elevation:	602.06	2200/9 Jan	Instant/hourly Elevation:	599.31	1400/9 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
601.63	9 Jan
600.66	5 Feb
600.38	19 Mar
600.47	1 Apr
600.54	31 May
600.80	12 Jun
601.15	27 Jul
601.26	30 Aug
601.24	3 Sep
601.47	6 Oct
600.91	14 Nov
600.69	13 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.43	6 Jan
600.23	27 Feb
599.86	31 Mar
599.85	9 Apr
599.97	8 May
600.28	10 Jun
600.52	5 Jul
600.79	14 Aug
600.84	29 Sep
600.54	29 Oct
600.30	27 Nov
599.72	29 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.
601.60	1												601.60	1
601.40	1									1			601.40	3
601.20	2							3	2	2			601.20	12
601.00	2						5	11	18	10			601.00	58
600.80	5						15	16	10	15	3		600.80	122
600.60	14	2				12	8	1		1	12	3	600.60	175
600.40	6	11		1	6	14	3			2	11	11	600.40	240
600.20		15	9	11	19	4					4	13	600.20	315
600.00			19	12	5							3	600.00	354
599.80			3	6	1								599.80	364
599.60												1	599.60	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.97	600.60	600.28	600.47	600.40	600.39	600.56	600.90	600.93	601.08	600.74	600.66
2	601.11	600.61	600.22	599.93	600.23	600.52	600.62	600.94	601.14	600.86	600.76	600.55
3	600.86	600.45	600.34	599.89	600.14	600.44	600.66	601.04	601.24	601.09	600.60	600.32
4	600.98	600.32	600.27	600.13	600.13	600.51	600.61	601.01	601.13	601.11	600.76	600.45
5	600.78	600.66	600.17	600.09	600.23	600.44	600.52	600.95	601.01	601.14	600.65	600.55
6	600.43	600.47	600.20	599.86	600.21	600.38	600.60	601.02	601.15	601.47	600.87	600.61
7	600.60	600.47	600.16	600.39	600.06	600.67	600.69	600.89	600.97	601.33	600.59	600.46
8	601.24	600.41	600.11	600.12	599.97	600.56	600.90	600.94	601.12	601.08	600.52	600.55
9	601.63	600.50	600.15	599.85	600.26	600.64	600.85	601.05	600.85	601.00	600.76	600.59
10	601.46	600.47	600.15	599.99	600.09	600.28	600.96	600.98	601.04	600.98	600.55	600.48
11	601.30	600.53	600.18	600.21	600.01	600.51	600.82	600.87	601.08	600.89	600.75	600.33
12	600.79	600.50	600.13	600.09	600.34	600.80	600.66	600.85	601.02	601.22	600.54	600.26
13	600.76	600.40	600.06	600.39	600.42	600.69	600.89	600.90	600.85	601.15	600.31	600.69
14	600.69	600.34	600.29	600.31	600.42	600.57	600.80	600.79	600.94	601.11	600.91	600.30
15	600.71	600.36	600.13	600.30	600.42	600.42	600.99	600.81	601.20	600.97	600.67	600.36
16	600.72	600.39	600.15	600.21	600.36	600.39	600.85	601.00	601.16	600.97	600.52	600.40
17	600.62	600.42	600.21	600.12	600.41	600.55	600.74	601.07	601.09	600.85	600.63	600.43
18	600.63	600.42	600.06	600.05	600.35	600.61	600.76	600.85	600.98	601.05	600.71	600.26
19	600.72	600.30	600.38	600.22	600.30	600.49	600.89	601.17	600.86	601.02	600.90	600.09
20	600.64	600.36	600.00	600.30	600.51	600.50	601.03	600.97	601.17	600.83	600.60	600.05
21	600.62	600.32	600.18	600.21	600.36	600.63	600.97	600.87	601.21	600.82	600.65	600.22
22	600.58	600.24	600.16	600.08	600.28	600.67	601.01	601.01	601.04	601.08	600.54	600.28
23	600.56	600.33	600.37	600.00	600.30	600.60	601.01	600.98	600.96	600.91	600.53	600.25
24	600.61	600.27	600.11	600.14	600.30	600.53	600.84	601.13	601.20	600.65	600.73	600.32
25	600.54	600.38	600.08	600.17	600.26	600.49	600.81	601.07	601.08	600.94	600.49	600.50
26	601.19	600.32	600.08	600.14	600.22	600.61	600.94	601.03	600.94	600.90	600.37	600.42
27	600.98	600.23	599.99	600.13	600.32	600.72	601.15	600.89	601.16	600.93	600.30	600.45
28	600.86	600.33	600.26	600.15	600.37	600.67	600.91	601.23	601.01	600.95	600.40	600.09
29	600.73		600.17	600.27	600.33	600.70	601.13	601.24	600.84	600.54	600.59	599.72
30	600.59		600.03	600.31	600.36	600.61	600.95	601.26	601.13	600.60	600.70	600.32
31	600.77		599.86		600.54		600.90	601.13		600.83		600.31
MEAN	600.83	600.41	600.16	600.15	600.29	600.55	600.84	600.99	601.05	600.98	600.62	600.36
MAX.	602.06	600.84	600.91	601.00	600.79	601.10	601.46	601.51	601.77	601.64	601.30	601.29
	2200/09	0700/05	0400/19	1200/01	1600/31	1500/12	1000/29	1200/19	1900/11	0800/06	2000/29	1200/13
MIN.	600.22	600.08	599.51	599.31	599.62	599.87	600.02	600.37	600.48	600.10	599.74	599.47
	1400/06	1000/04	2000/31	1400/09	0800/11	1400/10	0900/18	1600/18	0600/14	0700/30	1100/13	0900/29

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

ANNUAL MEAN: 600.60

ANNUAL SUMMARY OF LEVELS, 1978
Station 9016: Marquette, Michigan on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	601.20	Sep	Monthly mean elevation:	600.23	Apr
Daily mean elevation:	601.39	6 Oct	Daily mean elevation:	600.08	9 Apr
Instant/hourly Elevation:	602.00	1300/11 Sep	Instant/hourly Elevation:	599.56	2000/10 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
601.35	9 Jan
600.86	5 Feb
600.38	3 Mar
600.32	20 Apr
600.63	30 May
600.84	29 Jun
601.18	29 Jul
601.28	30 Aug
601.29	12 Sep
601.39	6 Oct
600.85	10 Nov
600.58	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.66	31 Jan
600.36	27 Feb
600.17	30 Mar
600.08	9 Apr
600.21	3 May
600.54	10 Jun
600.78	6 Jul
601.03	15 Aug
601.09	26 Sep
600.77	30 Oct
600.48	27 Nov
600.12	29 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	3							9	12	4			601.20	28
601.00	3						13	22	18	16			601.00	100
600.80	16	1				2	16			9	3		600.80	147
600.60	9	5			1	22	2			2	18		600.60	206
600.40		18			18	6					9	12	600.40	269
600.20		4	28	21	12							18	600.20	352
600.00			3	9								1	600.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9016: Marquette, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	601.00	600.66	600.34	600.32	600.26	600.56	600.83	601.03	601.19	601.16	600.81	600.50
2	601.01	600.65	600.33	600.22	600.22	600.60	600.85	601.09	601.24	601.09	600.80	600.58
3	600.97	600.62	600.38	600.12	600.21	600.59	600.83	601.11	601.29	601.19	600.79	600.51
4	600.93	600.56	600.33	600.20	600.23	600.62	600.82	601.07	601.19	601.20	600.80	600.45
5	600.96	600.86	600.32	600.13	600.26	600.60	600.79	601.08	601.25	601.26	600.76	600.44
6	600.89	600.75	600.32	600.13	600.23	600.60	600.78	601.11	601.21	601.39	600.80	600.49
7	600.97	600.64	600.28	600.23	600.23	600.67	600.93	601.07	601.24	601.27	600.71	600.47
8	601.21	600.58	600.27	600.21	600.25	600.69	600.90	601.04	601.20	601.13	600.66	600.41
9	601.35	600.55	600.28	600.08	600.29	600.68	600.95	601.07	601.16	601.11	600.76	600.49
10	601.13	600.56	600.31	600.13	600.25	600.54	600.93	601.07	601.21	601.14	600.85	600.43
11	600.88	600.56	600.28	600.25	600.27	600.66	600.90	601.05	601.29	601.10	600.84	600.37
12	600.89	600.57	600.28	600.24	600.37	600.73	600.90	601.03	601.29	601.20	600.70	600.35
13	600.99	600.52	600.27	600.27	600.45	600.71	600.94	601.07	601.19	601.22	600.59	600.48
14	600.91	600.45	600.36	600.28	600.53	600.66	600.95	601.05	601.17	601.15	600.63	600.35
15	600.83	600.44	600.32	600.30	600.46	600.69	600.99	601.03	601.18	601.11	600.65	600.33
16	600.90	600.46	600.32	600.28	600.44	600.68	600.96	601.12	601.27	601.08	600.61	600.35
17	600.81	600.45	600.26	600.26	600.45	600.74	600.96	601.13	601.28	600.96	600.75	600.38
18	600.74	600.47	600.22	600.23	600.44	600.71	601.04	601.06	601.20	601.03	600.75	600.40
19	600.83	600.43	600.33	600.30	600.45	600.68	601.07	601.21	601.17	601.02	600.78	600.27
20	600.81	600.47	600.23	600.32	600.48	600.73	601.06	601.15	601.23	600.97	600.68	600.28
21	600.77	600.45	600.27	600.26	600.44	600.72	600.99	601.13	601.20	601.03	600.58	600.30
22	600.67	600.36	600.26	600.20	600.44	600.74	601.08	601.15	601.16	601.04	600.57	600.26
23	600.66	600.40	600.35	600.20	600.45	600.74	601.04	601.26	601.12	600.99	600.60	600.30
24	600.66	600.41	600.27	600.20	600.47	600.74	601.03	601.23	601.22	600.84	600.64	600.42
25	600.72	600.46	600.21	600.21	600.48	600.75	601.07	601.20	601.19	600.93	600.65	600.40
26	601.22	600.41	600.19	600.22	600.48	600.80	601.09	601.22	601.09	600.95	600.57	600.34
27	601.03	600.36	600.18	600.22	600.54	600.71	601.15	601.27	601.16	600.91	600.48	600.25
28	600.84	600.38	600.26	600.23	600.58	600.78	601.06	601.27	601.13	600.94	600.49	600.21
29	600.73		600.24	600.26	600.54	600.84	601.18	601.28	601.13	600.77	600.52	600.12
30	600.66		600.17	600.27	600.63	600.82	601.09	601.28	601.19	600.77	600.53	600.31
31	600.66		600.22		600.55		601.03	601.23		600.86		600.34
MEAN	600.89	600.52	600.28	600.23	600.40	600.69	600.97	601.13	601.20	601.06	600.68	600.37
MAX.	601.55	601.03	600.57	600.75	601.07	601.39	601.51	601.75	602.00	601.51	601.30	600.77
	2100/08	2100/05	0400/19	0700/11	1900/31	1600/11	1300/18	1100/18	1300/11	0400/06	1700/10	1400/02
MIN.	600.42	600.23	599.92	599.56	599.84	599.57	600.35	600.61	600.72	600.43	600.30	599.91
	1600/18	0500/24	1300/20	2000/10	1300/08	1700/11	1700/28	0200/16	0500/11	0400/24	0700/29	0200/20

ANNUAL MEAN: 600.70

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 9044: Ontonagon, Michigan on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	601.30	Sep	Monthly mean elevation:	600.27	Apr
Daily mean elevation:	601.43	7 Sep	Daily mean elevation:	600.16	1 May
Instant/hourly Elevation:	602.07	0046/12 Sep	Instant/hourly Elevation:	599.78	0928/11 Jun

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date	
		Jan
		Feb
		Mar
600.36	14	Apr
600.60	29	May
600.87	30	Jun
601.14	25	Jul
601.26	27	Aug
601.43	7	Sep
601.31	5	Oct
600.86	10	Nov
		Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date	
		Jan
		Feb
		Mar
600.19	30	Apr
600.16	1	May
600.62	2	Jun
600.79	3	Jul
601.09	12	Aug
601.20	30	Sep
600.90	31	Oct
600.65	21	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.
601.40									1				601.40	1
601.20								7	28	11			601.20	47
601.00							17	24	1	12			601.00	101
600.80						4	13			8	8		600.80	134
600.60						26	1				13		600.60	174
600.40					15								600.40	189
600.20				15	14								600.20	218
600.00				2	2								600.00	222
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9044: Ontonagon, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	/	/	600.16	600.66	600.86	601.11	601.29	601.23	600.84	/
2	/	/	/	/	600.20	600.62	600.84	601.13	601.28	601.28	600.86	/
3	/	/	/	/	600.28	600.65	600.79	601.12	601.26	601.26	600.85	/
4	/	/	/	/	600.29	600.65	600.82	601.11	601.26	601.25	600.83	/
5	/	/	/	/	600.23	600.64	600.84	601.17	601.31	601.31	600.80	/
6	/	/	/	/	600.22	600.64	600.81	601.15	601.29	601.22	600.82	/
7	/	/	/	/	600.31	600.64	600.89	601.13	601.43	601.20	600.81	/
8	/	/	/	/	600.37	600.65	600.91	601.10	601.27	601.22	600.80	/
9	/	/	/	/	600.27	600.68	600.94	601.10	601.33	601.22	600.80	/
10	/	/	/	/	600.35	600.78	600.93	601.14	601.24	601.21	600.86	/
11	/	/	/	/	600.36	600.65	600.96	601.13	601.33	601.22	600.66	/
12	/	/	/	/	600.33	600.72	601.00	601.09	601.37	601.17	600.74	/
13	/	/	/	/	600.30	600.69	600.97	601.12	601.40	601.19	600.74	/
14	/	/	/	600.36*	600.38	600.74	601.02	601.14	601.30	601.18	600.72	/
15	/	/	/	600.31	600.40	600.81	600.96	601.20	601.24	601.21	600.72	/
16	/	/	/	600.28	600.42	600.86	601.03	601.18	601.33	601.13	600.75	/
17	/	/	/	600.30	600.41	600.74	601.03	601.24	601.34	601.05	600.72	/
18	/	/	/	600.34	600.41	600.72	601.04	601.26	601.37	601.04	600.81	/
19	/	/	/	600.26	600.44	600.80	601.06	601.15	601.34	601.03	600.77	/
20	/	/	/	600.23	600.40	600.78	601.02	601.19	601.29	601.05	600.74	/
21	/	/	/	600.19	600.45	600.75	601.04	601.19	601.26	601.10	600.65	/
22	/	/	/	600.28	600.49	600.76	601.01	601.17	601.31	601.06	/	/
23	/	/	/	600.30	600.47	600.80	601.04	601.22	601.28	601.01	/	/
24	/	/	/	600.27	600.47	600.80	601.08	601.17	601.27	600.98	/	/
25	/	/	/	600.24	600.50	600.80	601.14	601.17	601.27	600.98	/	/
26	/	/	/	600.23	600.50	600.81	601.09	601.22	601.29	600.96	/	/
27	/	/	/	600.25	600.50	600.80	601.04	601.26	601.24	600.99	/	/
28	/	/	/	600.26	600.54	600.79	601.11	601.14	601.24	600.97	/	/
29	/		/	600.23	600.60	600.80	601.07	601.20	601.30	601.00	/	/
30	/		/	600.19	600.58	600.87	601.07	601.24	601.20	600.96	/	/
31	/		/		600.56		601.07	601.25		600.90		/
MEAN	/	/	/	600.27	600.39	600.74	600.98	601.17	601.30	601.12	600.78	/
MAX.				600.58 0100/20	601.11 1938/31	601.34 0357/11	601.86 0315/18	601.98 0503/18	602.07 0046/12	601.56 1245/24	601.31 2220/10	
MIN.				599.94 1710/29	599.88 1648/01	599.78 0928/11	600.39 0332/18	600.39 0202/23	600.54 1740/10	600.53 1920/30	599.90 2220/13	

ANNUAL MEAN: 600.84

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 9064: Duluth, Minnesota on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	601.49	Sep	Monthly mean elevation:	600.33	Mar
Daily mean elevation:	602.13	12 Sep	Daily mean elevation:	600.08	28 Mar
Instant/hourly Elevation:	602.57	2300/11 Sep	Instant/hourly Elevation:	599.56	0500/1 Apr

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
601.30	6 Jan
600.74	8 Feb
600.62	13 Mar
600.74	18 Apr
600.80	31 May
601.00	15 Jun
601.25	28 Jul
601.62	23 Aug
602.13	12 Sep
601.47	2 Oct
601.21	10 Nov
600.76	3 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
600.37	27 Jan
600.34	23 Feb
600.05	28 Mar
600.13	1 Apr
600.27	1 May
600.71	6 Jun
600.91	6 Jul
601.03	3 Aug
601.24	24 Sep
600.84	25 Oct
600.38	29 Nov
600.15	22 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.
602.00									1				602.00	1
601.80									1				601.80	2
601.60								1	4				601.60	7
601.40								5	11	2			601.40	25
601.20	1						3	14	13	10	1		601.20	67
601.00	3						20	11		12			601.00	113
600.80	10					18	8			7	8		600.80	164
600.60	8	6	1	5	9	12					17	5	600.60	227
600.40	8	16	4	9	16						3	6	600.40	289
600.20	1	6	24	14	6						1	18	600.20	359
600.00			2	2								2	600.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9064: Duluth, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.88	600.60	600.33	600.13	600.27	600.74	601.16	601.21	601.47	601.44	600.77	600.44
2	600.78	600.57	600.37	600.69	600.34	600.71	601.10	601.06	601.31	601.47	600.91	600.63
3	600.95	600.70	600.29	600.40	600.44	600.75	600.94	601.03	601.39	601.31	600.89	600.76
4	600.96	600.61	600.27	600.22	600.52	600.73	600.97	601.06	601.38	601.28	601.00	600.30
5	601.13	600.55	600.37	600.41	600.37	600.76	600.98	601.13	601.43	601.29	600.68	600.29
6	601.30	600.70	600.37	600.50	600.38	600.71	600.91	601.20	601.42	601.12	600.77	600.40
7	600.97	600.70	600.41	600.22	600.59	600.74	600.93	601.21	601.65	601.22	600.86	600.44
8	600.74	600.74	600.29	600.64	600.52	600.75	601.02	601.06	601.57	601.32	600.76	600.35
9	600.68	600.48	600.22	600.70	600.28	600.87	600.94	601.08	601.55	601.32	600.88	600.35
10	600.55	600.42	600.39	600.44	600.54	600.92	601.00	601.19	601.44	601.32	601.21	600.38
11	600.59	600.46	600.26	600.26	600.45	600.79	601.07	601.22	601.79	601.25	600.79	600.39
12	600.96	600.48	600.39	600.41	600.44	600.78	601.16	601.18	602.13	601.01	600.93	600.40
13	601.09	600.61	600.62	600.14	600.38	600.85	600.99	601.22	601.94	601.19	600.71	600.23
14	600.98	600.39	600.37	600.22	600.46	600.97	601.10	601.26	601.44	601.22	600.50	600.48
15	600.83	600.41	600.41	600.28	600.52	601.00	601.09	601.35	601.38	601.32	600.66	600.29
16	600.82	600.44	600.36	600.41	600.56	600.92	601.16	601.11	601.61	601.18	600.83	600.28
17	600.88	600.39	600.23	600.59	600.54	600.82	601.19	601.43	601.54	601.11	600.71	600.40
18	600.82	600.48	600.23	600.74	600.53	600.81	601.15	601.24	601.78	601.04	600.71	600.73
19	600.79	600.54	600.17	600.39	600.58	600.95	601.15	601.14	601.56	601.00	600.66	600.62
20	600.80	600.45	600.42	600.35	600.50	600.80	601.15	601.31	601.35	601.09	600.66	600.42
21	600.68	600.43	600.34	600.34	600.58	600.76	601.19	601.27	601.34	601.09	600.61	600.34
22	600.59	600.46	600.23	600.49	600.63	600.87	601.14	601.29	601.48	600.98	600.74	600.15
23	600.62	600.34	600.21	600.67	600.59	600.94	601.18	601.62	601.36	601.01	600.71	600.52
24	600.70	600.55	600.37	600.54	600.61	600.89	601.22	601.42	601.24	601.05	600.63	600.29
25	601.09	600.35	600.39	600.39	600.63	600.90	601.18	601.39	601.39	600.84	600.74	600.23
26	600.49	600.39	600.35	600.36	600.64	600.87	601.06	601.45	601.27	600.96	600.83	600.23
27	600.37	600.46	600.32	600.37	600.61	600.83	601.09	601.45	601.27	600.88	600.74	600.29
28	600.47	600.38	600.08	600.39	600.66	600.87	601.25	601.25	601.37	601.01	600.60	600.73
29	600.56		600.26	600.51	600.76	600.89	601.16	601.28	601.50	601.13	600.38	600.50
30	600.55		600.36	600.37	600.69	600.99	601.23	601.39	601.26	600.86	600.45	600.18
31	600.53		600.53		600.80		601.13	601.42		600.85		600.26
MEAN	600.78	600.50	600.33	600.42	600.53	600.84	601.10	601.26	601.49	601.13	600.74	600.40
MAX.	601.47	600.98	600.91	601.02	601.08	601.25	601.66	601.90	602.57	601.74	601.60	601.05
	1200/06	0100/04	1800/13	1500/08	2300/31	1500/19	1600/18	2000/23	2300/11	0400/02	1300/10	1700/03
MIN.	600.02	600.13	599.73	599.56	599.98	600.32	600.57	600.74	601.00	600.49	599.73	599.81
	2200/26	0900/23	0600/19	0500/01	1200/09	0800/02	1300/09	1000/16	2000/14	1900/30	2000/13	2100/31

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

ANNUAL MEAN: 600.79

ANNUAL SUMMARY OF LEVELS, 1978
Station 9070: Two Harbors, Minnesota on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	601.41	Sep	Monthly mean elevation:	600.29	Mar
Daily mean elevation:	601.74	12 Sep	Daily mean elevation:	600.06	28 Mar
Instant/hourly Elevation:	602.19	2300/11 Sep	Instant/hourly Elevation:	599.69	0500/i Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
601.22	6 Jan
600.68	8 Feb
600.52	13 Mar
600.56	9 Apr
600.70	29 May
600.92	30 Jun
601.20	28 Jul
601.42	23 Aug
601.74	12 Sep
601.44	2 Oct
601.04	10 Nov
600.69	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.36	27 Jan
600.30	23 Feb
600.06	28 Mar
600.08	1 Apr
600.21	1 May
600.64	2 Jun
600.85	3 Jul
601.02	3 Aug
601.21	24 Sep
601.10	12 Oct
600.39	29 Nov
600.16	22 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.
601.60									4				601.60	4
601.40								1	11	1			601.40	17
601.20	1							12	14	9			601.20	53
601.00	2						19	18		2	1		601.00	95
600.80	8					12	12				6		600.80	133
600.60	12	4			3	18					18	4	600.60	192
600.40	7	16	2	8	19						4	7	600.40	255
600.20	1	8	24	17	9						1	18	600.20	333
600.00			5	5								2	600.00	345
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9070: Two Harbors, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.87	600.57	600.30	600.08	600.21	600.67	601.02	601.17	601.42	601.39	600.76*	600.43*
2	600.77	600.55	600.33	600.56	600.29	600.64	600.96	601.06	601.29	601.44	600.88	600.61
3	600.94	600.66	600.28	600.31	600.38	600.69	600.85	601.02	601.33	601.29	600.88	600.69
4	600.91	600.57	600.25	600.18	600.40	600.68	600.90	601.03	601.32	601.28	600.94*	600.35
5	601.09	600.50	600.34	600.32	600.29	600.70	600.92	601.10	601.42*	601.32	600.69*	600.31
6	601.22	600.65	600.33	600.41	600.29	600.67	600.86	601.13	/	601.18	600.76	600.39
7	600.94	600.65	600.37	600.16	600.47	600.67	600.86	601.15	601.50*	601.25	600.84	600.45
8	600.72	600.68	600.26	600.47	600.45	600.70	600.95	601.04	601.43	601.35	600.76	600.35
9	600.64	600.45	600.20	600.56	600.26	600.76	600.90	601.05	601.46	601.30	600.83	600.34
10	600.56	600.41	600.33	600.34	600.47	600.85	600.93	601.14	601.41	601.28	601.04*	600.37
11	600.61	600.43	600.23	600.24	600.42	600.73	601.00	601.16	601.64	601.24	600.76*	600.38
12	600.92	600.45	600.33	600.37	600.35	600.70	601.09	601.13	601.74	601.10*	600.85*	600.41
13	601.00	600.56	600.52	600.13	600.33	600.76	600.94	601.16	601.70	/	600.77*	600.24
14	600.95	600.36	600.32	600.19	600.41	600.86	601.04	601.19	601.38	/	600.51*	600.45
15	600.80	600.39	600.37	600.24	600.46	600.89	601.00	601.26	601.35	/	600.66*	600.29
16	600.79	600.42	600.32	600.35	600.51	600.85	601.09	601.11	601.51	/	600.80*	600.28
17	600.84	600.37	600.21	600.46	600.49	600.77	601.11	601.32	601.45	/	600.66*	600.38
18	600.77	600.44	600.23	600.53	600.49	600.76	601.09	601.17	601.63	/	600.74*	600.61
19	600.76	600.49	600.14	600.31	600.53	600.89	601.11	601.09	601.49	/	600.65*	600.56
20	600.77	600.41	600.36	600.27	600.47	600.77	601.08	601.23	601.30	/	600.66*	600.38
21	600.67	600.40	600.30	600.28	600.54	600.75	601.11	601.22	601.31	/	600.60*	600.33
22	600.58	600.42	600.20	600.41	600.58	600.79	601.08	601.19	601.42	/	600.71	600.16
23	600.61	600.30	600.17	600.52	600.55	600.88	601.12	601.42	601.32	/	600.71*	600.47
24	600.68	600.49	600.31	600.39	600.50*	600.83	601.15	601.29	601.21	/	600.62*	600.26
25	601.02	600.32	600.32	600.32	600.58*	600.86	601.13	601.32	601.35	/	600.70*	600.22
26	600.43	600.35	600.30	600.31	600.59	600.81	601.02	601.35	601.25	/	600.80*	600.23
27	600.36	600.41	600.28	600.32	600.56	600.79	601.04	601.36	601.24	/	600.71*	600.26
28	600.46	600.34	600.06	600.34	600.59	600.82	601.20	601.21*	601.30	/	600.60*	600.66
29	600.54		600.22	600.38	600.70	600.84	601.07	601.24	601.43	/	600.39*	600.50
30	600.54		600.29	600.28	600.65	600.92	601.16	601.34	601.24	/	600.44*	600.17
31	600.50		600.43		600.68		601.10	601.37		/		600.26
MEAN	600.75	600.47	600.29	600.33	600.47	600.78	601.03	601.19	601.41	601.28	600.72	600.38
MAX.	601.40	600.88	600.73	600.79	600.93	601.12	601.53	601.83	602.19	601.72	601.35	600.93
	1100/06	0100/04	1800/13	2400/02	2400/31	1400/19	1600/18	0400/23	2300/11	0400/02	1200/10	0100/29
MIN.	600.04	600.15	599.80	599.69	599.94	600.35	600.62	600.71	601.02	600.97	599.95	599.83
	2200/26	0900/25	0300/19	0500/01	1100/09	0700/02	2000/19	0900/19	2000/26	1900/11	2000/13	1400/22

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

ANNUAL MEAN: 600.76

ANNUAL SUMMARY OF LEVELS, 1978
Station 9090: Grand Marais, Minnesota on Lake Superior

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	601.28	Sep	Monthly mean elevation:	600.21	Mar
Daily mean elevation:	601.49	13 Sep	Daily mean elevation:	600.02	1 Apr
Instant/hourly Elevation:	601.70	2300/12 Sep	Instant/hourly Elevation:	599.72	0600/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
601.05	6 Jan
600.54	3 Feb
600.30	13 Mar
600.36	9 Apr
600.56	31 May
600.78	30 Jun
601.03	28 Jul
601.24	27 Aug
601.49	13 Sep
601.34	2 Oct
600.81	4 Nov
600.51	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
600.38	27 Jan
600.27	28 Feb
600.06	28 Mar
600.02	1 Apr
600.13	1 May
600.57	7 Jun
600.74	3 Jul
600.97	9 Aug
601.16	30 Sep
600.77	31 Oct
600.41	29 Nov
600.14	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.
601.40									2				601.40	2
601.20								4	20	4			601.20	30
601.00	1						5	18	8	15			601.00	77
600.80	7						21	9		11	1		600.80	126
600.60	15					25	5			1	17		600.60	189
600.40	7	8			12	5					12	7	600.40	240
600.20	1	20	17	18	15							17	600.20	328
600.00			14	12	4							7	600.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9090: Grand Marais, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	600.84	600.49	600.25	600.02	600.13	600.60	600.82	601.06	601.29	601.24	600.75	600.41
2	600.78	600.48	600.27	600.32	600.20	600.57	600.79	600.98	601.23	601.34	600.79	600.48
3	600.90	600.54	600.22	600.20	600.24	600.61	600.74	600.97	601.18*	601.24	600.79	600.51
4	600.81	600.50	600.23	600.12	600.24	600.58	600.75	600.98	601.16*	601.21	600.81	600.41
5	600.94	600.40	600.26	600.19	600.18	600.61	600.83	601.00	601.23	601.18	600.69	600.33
6	601.05	600.48	600.24	600.30	600.18	600.61	600.79	600.99	601.20	601.07	600.70	600.36
7	600.89	600.47	600.27	600.12	600.27	600.57	600.75	601.03	601.31	601.10	600.74	600.42
8	600.71	600.48	600.24	600.26	600.33	600.64	600.83	600.97	601.25	601.20	600.71	600.31
9	600.61	600.38	600.20	600.36	600.21	600.63	600.84	600.97	601.31	601.18	600.69	600.30
10	600.60	600.39	600.25	600.29	600.37	600.74	600.84	601.02	601.26	601.18	600.74	600.33
11	600.67	600.37	600.19	600.19	600.35	600.66	600.89	601.01	601.40	601.18	600.62	600.34
12	600.82	600.38	600.23	600.30	600.26	600.60	600.94	601.00	601.46	600.99	600.69	600.36
13	600.81	600.42	600.30	600.14	600.27	600.63	600.90	601.01	601.49	601.06	600.70	600.26
14	600.78	600.34	600.23	600.14	600.32	600.69	600.93	601.05	601.38	601.09	600.51	600.36
15	600.75	600.37	600.28	600.17	600.36	600.76	600.91	601.09	601.29	601.10	600.60	600.30
16	600.70	600.35	600.23	600.23	600.40	600.76	600.95	601.03	601.36	601.07	600.69	600.26
17	600.76	600.33	600.18	600.26	600.38	600.70	600.96	601.11	601.30	601.03	600.62	600.29
18	600.72	600.36	600.22	600.27	600.40	600.68	600.97	601.07	601.39	600.95	600.62	600.33
19	600.68	600.38	600.11	600.21	600.43	600.74	600.97	601.00	601.37	600.94	600.55	600.37
20	600.69	600.32	600.27	600.16	600.38	600.73	600.99	601.09	601.26	601.01	600.58	600.27
21	600.67	600.33	600.20	600.18	600.43	600.68	601.00	601.08	601.23	601.02	600.54	600.28
22	600.59	600.35	600.17	600.26	600.46	600.67	600.95	601.03	601.29	600.88	600.60	600.16
23	600.63	600.27	600.10	600.29	600.44	600.71	600.98	601.23	601.26	600.95	600.60	600.27
24	600.63	600.36	600.20	600.23	600.44	600.72	601.02	601.19	601.16	601.01	600.53	600.17
25	600.79	600.27	600.20	600.21	600.48	600.73	601.02	601.20	601.24	600.81	600.58	600.14
26	600.41	600.30	600.19	600.21	600.46	600.72	600.97	601.20	601.20	600.87	600.66	600.19
27	600.38	600.32	600.20	600.22	600.49	600.71	600.93	601.24	601.17	600.84	600.62	600.19
28	600.44	600.27	600.06	600.23	600.47	600.72	601.03	601.19	601.18	600.86	600.55	600.41
29	600.47		600.13	600.22	600.56	600.73	600.94	601.20	601.30	600.95	600.41	600.43
30	600.49		600.17	600.16	600.56	600.78	601.02	601.22	601.16	600.85	600.43	600.14
31	600.44		600.26		600.56		601.02	601.22		600.77		600.17
MEAN	600.69	600.38	600.21	600.22	600.36	600.68	600.91	601.08	601.28	601.04	600.64	600.31
MAX.	601.27	600.74	600.48	600.57	600.82	600.99	601.37	601.56	601.70	601.47	601.10	600.79
	1100/05	2400/03	1100/18	0600/10	2400/31	1200/25	1500/18	0500/23	2300/12	0300/02	0500/05	1000/19
MIN.	600.20	600.16	599.79	599.72	599.94	600.41	600.57	600.74	601.06	600.60	600.17	599.85
	2300/27	0900/25	0400/19	0600/01	1100/07	0700/07	0900/04	0900/15	0800/30	1700/30	2200/13	0300/30

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

/ Indicates No Data.

ANNUAL MEAN: 600.65

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	74.83	May
Daily mean elevation:	74.92	23 Apr
Instant/hourly elevation:	74.97	1900/11 Apr

LOWEST		
Monthly mean elevation:	74.04	Nov
Daily mean elevation:	73.88	27 Nov
Instant/hourly elevation:	73.77	2000/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.82	10 Jan
74.69	1 Feb
74.55	29 Mar
74.92	23 Apr
74.91	10 May
74.82	3 Jun
74.67	1 Jul
74.54	9 Aug
74.37	6 Sep
74.26	7 Oct
74.22	18 Nov
74.23	13 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.43	6 Jan
74.45	28 Feb
74.32	14 Mar
74.55	3 Apr
74.74	15 May
74.68	30 Jun
74.48	30 Jul
74.33	27 Aug
74.13	18 Sep
74.07	29 Oct
73.88	27 Nov
73.93	3 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.
74.90				3	1								74.90	4
74.85				8	8								74.85	20
74.80	2			5	17	5							74.80	49
74.75	2			5	4	17							74.75	77
74.70	3			4	1	6							74.70	91
74.65	9	1		1		2	2						74.65	106
74.60	7	9		1			12						74.60	135
74.55	4	9		2			11						74.55	161
74.50	1	5	4	1			4	6					74.50	182
74.45		3	4				2	12					74.45	203
74.40	3	1	7					6					74.40	220
74.35			8					3	3				74.35	234
74.30			8					4	4				74.30	250
74.25									7	1			74.25	258
74.20									10	6	1	5	74.20	280
74.15									5	7		5	74.15	297
74.10									1	12	5	8	74.10	323
74.05										5	7	6	74.05	341
74.00											9	4	74.00	354
73.95											6	2	73.95	362
73.90											1	1	73.90	364
73.85											1		73.85	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.44	74.69	74.43	74.59	74.89	74.80	74.67	74.52	74.34	74.25	74.07	74.07
2	74.56	74.64	74.45	74.60	74.88	74.82	74.63	74.49	74.37	74.19	74.15	74.04
3	74.62	74.64	74.40	74.55	74.86	74.82	74.62	74.52	74.36	74.14	74.07	73.93
4	74.58	74.63	74.45	74.62	74.82	74.80	74.63	74.52	74.35	74.21	74.07	74.15
5	74.54	74.61	74.44	74.72	74.81	74.81	74.65	74.50	74.31	74.18	74.05	74.16
6	74.43	74.60	74.42	74.67	74.82	74.80	74.64	74.49	74.37	74.23	74.09	74.10
7	74.45	74.58	74.40	74.75	74.84	74.78	74.63	74.46	74.29	74.26	74.04	73.99
8	74.63	74.62	74.36	74.77	74.82	74.79	74.64	74.51	74.28	74.19	74.05	74.03
9	74.82	74.64	74.36	74.76	74.88	74.79	74.64	74.54	74.24	74.22	74.11	74.03
10	74.82	74.62	74.35	74.73	74.91	74.78	74.66	74.49	74.23	74.22	74.01	74.07
11	74.80	74.64	74.35	74.78	74.85	74.80	74.62	74.46	74.29	74.17	74.03	74.09
12	74.70	74.65	74.33	74.85	74.82	74.79	74.65	74.46	74.21	74.21	73.91	74.12
13	74.63	74.59	74.32	74.89	74.80	74.81	74.62	74.47	74.19	74.16	73.97	74.23
14	74.58	74.57	74.32	74.91	74.77	74.81	74.60	74.46	74.22	74.09	74.15	74.16
15	74.72	74.58	74.38	74.87	74.74	74.80	74.59	74.44	74.35	74.13	74.07	74.21
16	74.71	74.56	74.34	74.85	74.77	74.76	74.58	74.48	74.28	74.09	74.00	74.12
17	74.65	74.58	74.35	74.84	74.80	74.76	74.56	74.53	74.20	74.12	74.01	74.18
18	74.64	74.57	74.38	74.80	74.84	74.78	74.57	74.46	74.13	74.15	74.22	74.12
19	74.66	74.56	74.42	74.75	74.87	74.76	74.56	74.46	74.17	74.13	74.13	74.13
20	74.56	74.54	74.35	74.78	74.88	74.77	74.57	74.44	74.24	74.13	73.99	73.99
21	74.67	74.53	74.40	74.89	74.86	74.72	74.55	74.43	74.26	74.15	73.97	74.21
22	74.70	74.55	74.46	74.90	74.88	74.78	74.56	74.44	74.21	74.16	73.97	74.17
23	74.70	74.54	74.47	74.92	74.84	74.76	74.60	74.42	74.22	74.11	74.01	74.21
24	74.68	74.52	74.46	74.91	74.83	74.74	74.55	74.33	74.26	74.09	74.08	74.10
25	74.63	74.47	74.42	74.86	74.84	74.72	74.54	74.34	74.21	74.15	74.02	74.11
26	74.65	74.49	74.40	74.85	74.84	74.69	74.57	74.39	74.21	74.16	73.98	74.22
27	74.78	74.48	74.47	74.85	74.83	74.72	74.62	74.33	74.26	74.14	73.88	74.17
28	74.71	74.45	74.55	74.86	74.83	74.72	74.57	74.37	74.20	74.15	74.02	74.12
29	74.70		74.55	74.87	74.82	74.72	74.54	74.44	74.19	74.07	74.07	74.06
30	74.69		74.53	74.87	74.81	74.68	74.48	74.40	74.21	74.10	74.15	74.05
31	74.68		74.54		74.83		74.49	74.34		74.14		74.12
MEAN	74.65	74.58	74.41	74.80	74.83	74.77	74.59	74.45	74.26	74.16	74.04	74.11
MAX.	74.92	74.70	74.58	74.97	74.93	74.88	74.75	74.58	74.45	74.32	74.40	74.44
	2300/09	0700/01	1400/29	1900/11	1600/10	1600/09	1500/10	1300/09	1400/06	0800/07	1000/18	1600/04
MIN.	74.36	74.44	74.26	74.44	74.72	74.65	74.45	74.27	74.06	74.05	73.77	73.87
	1800/01	2400/28	0700/14	0400/01	1400/15	1800/30	0900/30	0100/28	1900/18	0400/30	2000/27	1500/03

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

/ Indicates No Data.

ANNUAL MEAN: 74.47

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	75.14	May	Monthly mean elevation:	74.22	Dec
Daily mean elevation:	75.18	21 May	Daily mean elevation:	74.15	27 Nov
Instant/hourly elevation:	75.23	2000/20 May	Instant/hourly elevation:	74.09	1100/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
75.00	12 Jan
74.88	29 Feb
75.17	30 Mar
75.18	21 Apr
75.13	3 May
74.99	1 Jun
74.79	4 Jul
74.63	3 Aug
74.48	1 Sep
74.33	18 Oct
74.29	4 Nov
	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.87	28 Jan
74.75	20 Feb
74.87	3 Mar
75.11	8 Apr
75.00	30 May
74.79	31 Jun
74.63	31 Jul
74.46	29 Aug
74.31	29 Sep
74.15	27 Oct
74.16	3 Nov
	3 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.
75.15				4	8								75.15	12
75.10				7	23	7							75.10	49
75.05				5		11							75.05	65
75.00				4		11							75.00	80
74.95		6		4		1	4						74.95	95
74.90		14		2			9						74.90	120
74.85		4	7	4			5						74.85	140
74.80			8				11						74.80	159
74.75			15				2	10					74.75	186
74.70			1					13					74.70	200
74.65								5					74.65	205
74.60								3	5				74.60	213
74.55									5				74.55	218
74.50									12				74.50	230
74.45									8	4			74.45	242
74.40										9			74.40	251
74.35										12			74.35	263
74.30										6	3		74.30	272
74.25											12	2	74.25	286
74.20											10	2	74.20	298
74.15											4	3	74.15	305
74.10											1		74.10	306
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	74.86	74.92	75.16	75.12	74.99	74.79	74.63	74.48	74.31	74.23
2	/	/	74.87	74.89	75.16	75.12	74.97	74.77	74.63	74.44	74.33	74.19
3	/	/	74.83	74.87	75.15	75.13	74.95	74.79	74.63	74.42	74.29	74.16
4	/	/	74.88	74.90	75.12	75.11	74.96	74.79	74.62	74.47	74.30	74.29
5	/	74.95*	74.85	74.95	75.13	75.12	74.96	74.77	74.60	74.44	74.29	74.26
6	/	74.94	74.84	74.90	75.13	75.10	74.95	74.76	74.62	74.47	74.29	74.22
7	/	74.93	74.82	74.99	75.13	75.09	74.94	74.75	74.58	74.47	74.27	74.18*
8	/	74.97	74.79	74.99	75.11	75.10	74.94	74.76	74.57	74.44	74.28	/
9	/	74.98	74.79	74.99	75.15	75.11	74.93	74.77	74.54	74.44	74.29	/
10	/	74.97	74.79	74.96	75.17	75.08	74.95	74.76	74.54	74.44	74.25	/
11	/	75.00	74.78	75.02	75.14	75.08	74.93	74.74	74.56	74.41	74.26	/
12	/	75.00	74.78	75.04	75.13	75.08	74.92	74.75	74.52	74.43	74.20	/
13	/	74.95	74.76	75.06	75.12	75.11	74.91	74.75	74.51	74.41	74.24	/
14	/	74.95	74.78	75.08	75.12	75.10	74.90	74.73	74.54	74.37	74.30	/
15	/	74.95	74.79	75.17	75.12	75.09	74.89	74.73	74.57	74.38	74.24	/
16	/	74.94	74.76	75.07	75.14	75.05	74.88	74.75	74.54	74.36	74.22	/
17	/	74.96	74.77	75.08	75.15	75.06	74.87	74.76	74.50	74.37	74.26	/
18	/	74.95	74.79	75.05	75.16	75.06	74.86	74.73	74.47	74.39	74.33	/
19	/	74.94	74.82	75.04	75.16	75.05*	74.85	74.74	74.51	74.36	74.28	/
20	/	74.92	74.75	75.10	75.16	75.05	74.85	74.73	74.53	74.37	74.21	/
21	/	74.93	74.80	75.14	75.18	75.04	74.84	74.72	74.53	74.36	74.20	/
22	/	74.94	74.80	75.14	75.17	75.06	74.84	74.72	74.51	74.36	74.19	/
23	/	74.94	74.82	75.15	75.15	75.05	74.85	74.71	74.51	74.33	74.24	/
24	/	74.93	74.83	75.15	75.15	75.04	74.83	74.67	74.52	74.33	74.24	/
25	/	74.88	74.79	75.14	75.15	75.01	74.82	74.68	74.49	74.36	74.21	/
26	/	74.90	74.79	75.15	75.15	75.01	74.83	74.68	74.49	74.37	74.18	/
27	/	74.89	74.85	75.15	75.14	75.01	74.85	74.63	74.50	74.35	74.15	/
28	/	74.87	74.87	75.17	75.14	75.02	74.83	74.67	74.48	74.36	74.23	/
29	/		74.88	75.16	75.13	75.02	74.82	74.68	74.46	74.31	74.25	/
30	/		74.87	75.17	75.13	75.00	74.79	74.65	74.47	74.33	74.26	/
31	/		74.86		75.14		74.79	74.63		74.33		/
MEAN	/	74.94	74.81	75.05	75.14	75.07	74.89	74.73	74.54	74.39	74.25	74.22
MAX.		75.03	74.94	75.20	75.23	75.18	75.00	74.83	74.67	74.55	74.45	74.46
		2300/11	1900/04	1400/30	2000/20	1900/12	1500/10	2000/19	2400/14	0400/04	1000/18	1300/04
MIN.		74.85	74.69	74.81	75.08	74.98	74.76	74.60	74.39	74.28	74.09	74.11
		0500/07	1000/14	0100/01	2400/04	2100/25	0100/31	2300/27	1600/18	1200/23	1100/27	1200/03

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

ANNUAL MEAN: 74.73

ANNUAL SUMMARY OF LEVELS, 1978
Station 2030: Oswego, New York on Lake Ontario

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	75.16	May
Daily mean elevation:	75.20	1 May
Instant/hourly elevation:	75.24	0500/21 May

LOWEST		
Monthly mean elevation:	74.28	Dec
Daily mean elevation:	74.20	3 Dec
Instant/hourly elevation:	74.12	1500/23 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
75.05	27 Jan
75.04	12 Feb
74.90	29 Mar
75.20	30 Apr
75.20	1 May
75.13	3 Jun
75.01	1 Jul
74.79	4 Aug
74.65	1 Sep
74.51	7 Oct
74.34	2 Nov
74.37	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.81	8 Jan
74.89	28 Feb
74.77	14 Mar
74.90	3 Apr
75.12	8 May
75.01	26 Jun
74.78	31 Jul
74.64	28 Aug
74.46	30 Sep
74.34	30 Oct
74.20	27 Nov
74.20	3 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
75.15				10	17							
75.10				1	14	9						
75.05				7		8						
75.00	6	9		4		13	1					
74.95	9	11		3			3					
74.90	9	7		4			8					
74.85	1	1	11	1			7					
74.80	6		11				11					
74.75			9				1	14				
74.70								9				
74.65								6				
74.60								2	7			
74.55									3			
74.50									17	1		
74.45									3	7		
74.40										8		
74.35										12		2
74.30										3	8	7
74.25											14	15
74.20											5	6
74.15											3	1

Elev. (m.)	No. of days above elev.
75.15	27
75.10	51
75.05	66
75.00	99
74.95	125
74.90	153
74.85	174
74.80	202
74.75	226
74.70	235
74.65	241
74.60	250
74.55	253
74.50	271
74.45	281
74.40	289
74.35	303
74.30	321
74.25	350
74.20	361
74.15	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 2030: Oswego, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.83	75.04	74.90	74.91	75.20	75.13	75.01	74.78	74.65	74.50	74.34	74.23
2	74.90	75.01	74.89	74.94	75.18	75.12	74.98	74.77	74.64	74.48	74.34	74.26
3	74.91	75.01	74.86	74.90	75.17	75.13	74.96	74.79	74.64	74.45	74.33	74.20
4	74.85	75.01	74.90	74.92	75.16	75.11	74.96	74.79	74.62	74.47	74.32	74.27
5	74.84	74.99	74.88	74.96	75.15	75.12	74.95	74.77	74.62	74.46	74.31	74.26
6	74.83	75.01	74.86	74.94	75.15	75.10	74.94	74.77	74.62	74.46	74.32	74.25
7	74.82	75.03	74.84	75.00	75.15	75.09	74.93	74.76	74.61	74.51	74.32	74.23
8	74.81	75.00	74.82	75.03	75.12	75.11	74.93	74.76	74.60	74.49	74.30	74.27
9	75.00	75.01	74.82	75.01	75.15	75.11	74.93	74.77	74.58	74.46	74.30	74.28
10	75.01	75.00	74.81	75.00	75.17	75.09	74.94	74.78	74.54	74.45	74.30	74.31
11	74.99	75.03	74.79	75.01	75.15	75.08	74.94	74.76	74.55	74.43	74.29	74.27
12	74.93	75.04	74.79	75.04	75.15	75.07	74.93	74.76	74.56	74.43	74.28	74.26
13	74.91	74.99	74.78	75.06	75.13	75.12	74.90	74.75	74.53	74.44	74.24	74.28
14	74.94	74.99	74.77	75.08	75.15	75.11	74.90	74.73	74.50	74.45	74.28	74.31
15	74.97	74.98	74.81	75.09	75.16	75.09	74.88	74.72	74.53	74.43	74.29	74.26
16	74.97	74.97	74.79	75.08	75.18	75.06	74.89	74.73	74.54	74.42	74.27	74.25
17	74.93	74.98	74.79	75.08	75.17	75.04	74.88	74.76	74.53	74.39	74.20	74.37
18	74.96	74.97	74.80	75.08	75.18	75.05	74.86	74.75	74.54	74.39	74.32	74.31
19	74.94	74.97	74.83	75.08	75.17	75.06	74.85	74.74	74.55	74.39	74.30	74.30
20	74.93	74.95	74.78	75.13	75.17	75.05	74.85	74.77	74.54	74.39	74.27	74.22
21	74.97	74.95	74.79	75.16	75.19	75.05	74.85	74.74	74.54	74.38	74.25	74.34
22	74.97	74.97	74.82	75.16	75.17	75.05	74.85	74.72	74.54	74.37	74.23	74.27
23	74.97	74.95	74.83	75.16	75.16	75.05	74.86	74.71	74.52	74.40	74.20	74.30
24	74.94	74.94	74.85	75.16	75.16	75.04	74.84	74.70	74.53	74.37	74.28	74.25
25	74.94	74.91	74.83	75.17	75.16	75.03	74.82	74.69	74.54	74.35	74.29	74.35
26	74.97	74.92	74.82	75.17	75.16	75.01	74.82	74.68	74.51	74.39	74.25	74.33
27	75.05	74.92	74.87	75.18	75.15	75.02	74.83	74.66	74.51	74.38	74.20	74.36
28	75.04	74.89	74.87	75.19	75.14	75.02	74.84	74.64	74.53	74.38	74.27	74.33
29	75.04		74.90	75.19	75.14	75.02	74.83	74.68	74.49	74.36	74.23	74.30
30	75.04		74.89	75.20	75.13	75.02	74.82	74.66	74.46	74.34	74.28	74.28
31	75.04		74.88		75.14		74.78	74.65		74.35		74.28
MEAN	74.94	74.98	74.83	75.07	75.16	75.07	74.89	74.73	74.56	74.42	74.28	74.28
MAX.	75.13	75.08	74.95	75.21	75.24	75.17	75.03	74.85	74.70	74.54	74.40	74.45
	1900/27	0700/07	2100/04	2000/30	0500/21	0500/03	0500/01	0100/20	1600/07	0400/07	1100/02	0900/17
MIN.	74.75	74.88	74.70	74.82	75.08	74.96	74.70	74.60	74.44	74.29	74.12	74.13
	0500/08	2300/28	0600/14	0500/01	1600/08	0600/26	0500/27	1200/28	1300/30	0600/30	1500/23	1800/03

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

/ Indicates No Data.

ANNUAL MEAN: 74.77

ANNUAL SUMMARY OF LEVELS, 1978
Station 2058: Rochester, New York on Lake Ontario

INTERNATIONAL
GREAT LAKES
DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	75.18	May	74.28	Dec
Daily mean elevation:	75.20	17 May	74.23	23 Nov
Instant/hourly elevation:	75.24	1000/21 May	74.13	2100/7 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
75.04	30 Jan
75.04	7 Feb
74.90	31 Mar
75.20	30 Apr
75.20	17 May
75.14	2 Jun
75.01	1 Jul
74.80	4 Aug
74.66	1 Sep
74.51	8 Oct
74.36	1 Nov
74.34	28 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.83	8 Jan
74.90	28 Feb
74.78	14 Mar
74.90	1 Apr
75.15	31 May
75.02	30 Jun
74.80	31 Jul
74.65	28 Aug
74.48	30 Sep
74.35	31 Oct
74.23	23 Nov
74.24	3 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.
75.15				10	27								75.15	37
75.10				2	4	12							75.10	55
75.05				6		11							75.05	72
75.00	4	13		5		7	1						75.00	102
74.95	12	6		3			5						74.95	128
74.90	6	8		3			9						74.90	154
74.85	6	1	13	1			10						74.85	185
74.80	3		10				5						74.80	203
74.75			8				1	15					74.75	227
74.70								9					74.70	236
74.65								6	1				74.65	243
74.60								1	6				74.60	250
74.55									12				74.55	262
74.50									10	3			74.50	275
74.45									1	8			74.45	284
74.40										8			74.40	292
74.35										10	1		74.35	303
74.30										2	10	8	74.30	323
74.25											13	19	74.25	355
74.20											6	4	74.20	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 2058: Rochester, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.86	75.02	74.90	74.90	75.20	75.14	75.01	74.78	74.66	74.50	74.36	74.25
2	74.86	75.03	74.89	74.94	75.19	75.14	75.00	74.78	74.65	74.51	74.34	74.26
3	74.86	75.03	74.88	74.93	75.19	75.13	74.97	74.79	74.65	74.49	74.34	74.24
4	74.86	75.03	74.89	74.94	75.18	75.13	74.96	74.80	74.64	74.48	74.33	74.25
5	74.86	75.02	74.87	74.96	75.17	75.12	74.96	74.79	74.64	74.48	74.33	74.25
6	74.85	75.04	74.86	74.97	75.17	75.12	74.95	74.77	74.62	74.49	74.33	74.26
7	74.84	75.04	74.86	74.99	75.17	75.11	74.94	74.78	74.65	74.51	74.33	74.26
8	74.83	75.01	74.84	75.01	75.15	75.12	74.94	74.77	74.60	74.51	74.32	74.27
9	74.90	75.01	74.82	75.02	75.16	75.12	74.96	74.78	74.58	74.47	74.31	74.28
10	74.95	75.01	74.82	75.02	75.18	75.11	74.95	74.79	74.55	74.46	74.31	74.29
11	74.93	75.01	74.80	75.03	75.18	75.10	74.95	74.78	74.55	74.45	74.30	74.27
12	74.93	75.01	74.80	75.04	75.17	75.09	74.94	74.76	74.60	74.43	74.31	74.26
13	74.94	75.01	74.80	75.06	75.17	75.13	74.91	74.74	74.57	74.46	74.27	74.26
14	74.99	74.99	74.78	75.08	75.19	75.11	74.91	74.74	74.54	74.45	74.27	74.28
15	74.94	74.98	74.81	75.09	75.19	75.09	74.90	74.74	74.54	74.44	74.29	74.26
16	74.95	74.97	74.81	75.10	75.19	75.08	74.91	74.73	74.56	74.43	74.28	74.27
17	74.96	74.97	74.80	75.10	75.20	75.08	74.89	74.76	74.56	74.41	74.24	74.31
18	74.98	74.96	74.79	75.10	75.19	75.07	74.88	74.77	74.56	74.40	74.27	74.30
19	74.97	74.96	74.80	75.11	75.19	75.07	74.86	74.74	74.56	74.41	74.28	74.29
20	75.00	74.95	74.81	75.13	75.18	75.07	74.86	74.77	74.55	74.40	74.29	74.27
21	74.97	74.95	74.80	75.16	75.19	75.06	74.86	74.75	74.55	74.40	74.27	74.28
22	74.96	74.95	74.83	75.17	75.19	75.06	74.86	74.72	74.58	74.39	74.25	74.29
23	74.96	74.94	74.84	75.18	75.19	75.06	74.86	74.71	74.57	74.42	74.23	74.29
24	74.97	74.93	74.85	75.18	75.18	75.04	74.86	74.72	74.56	74.40	74.27	74.29
25	74.98	74.93	74.85	75.19	75.18	75.04	74.83	74.70	74.57	74.37	74.29	74.32
26	74.97	74.92	74.86	75.19	75.17	75.02	74.81	74.69	74.53	74.39	74.27	74.32
27	74.99	74.91	74.86	75.19	75.16	75.03	74.82	74.68	74.52	74.39	74.25	74.33
28	75.04	74.90	74.87	75.19	75.16	75.03	74.86	74.65	74.54	74.38	74.26	74.34
29	75.04		74.89	75.20	75.15	75.03	74.83	74.67	74.52	74.38	74.24	74.32
30	75.04		74.90	75.20	75.15	75.02	74.83	74.68	74.48	74.35	74.25	74.31
31	75.02		74.90		75.15		74.80	74.68		74.35		74.32
MEAN	74.94	74.98	74.84	75.08	75.18	75.08	74.90	74.74	74.58	74.43	74.29	74.28
MAX.	75.07	75.10	74.93	75.22	75.24	75.19	75.03	74.85	74.72	74.54	74.39	74.37
	0700/14	2400/06	2200/31	0700/30	1000/21	0100/03	0800/01	0100/04	1000/07	2000/07	0400/01	2100/08
MIN.	74.81	74.88	74.75	74.85	75.08	74.98	74.74	74.63	74.44	74.29	74.18	74.13
	1100/08	2000/28	1700/14	1000/01	1000/09	1800/12	0100/27	0900/29	2400/30	0300/26	1600/27	2100/07

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

ANNUAL MEAN: 74.78

ANNUAL SUMMARY OF LEVELS, 1978
Station 2076: Olcott, New York on Lake Ontario

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	75.19	May
Daily mean elevation:	75.22	14 May
Instant/hourly elevation:	75.25	2200/20 May

LOWEST		
Monthly mean elevation:	74.28	Dec
Daily mean elevation:	74.22	4 Dec
Instant/hourly elevation:	74.08	1300/4 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
75.03	28 Jan
75.05	5 Feb
74.92	31 Mar
75.20	29 Apr
75.22	14 May
75.16	1 Jun
75.00	2 Jul
74.84	1 Aug
74.67	1 Sep
74.52	2 Oct
74.35	4 Nov
74.34	31 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
74.85	3 Jan
74.91	27 Feb
74.78	19 Mar
74.90	1 Apr
75.16	31 May
75.02	30 Jun
74.83	30 Jul
74.68	31 Aug
74.51	30 Sep
74.35	31 Oct
74.23	30 Nov
74.22	4 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
75.20					4							
75.15				11	27	1						
75.10				2		13						
75.05				6		9						
75.00	6	11		3		7						
74.95	11	9		5			9					
74.90	3	8	2	2			6					
74.85	9		10	1			10					
74.80	2		16				6	3				
74.75			3					12				
74.70								9				
74.65								7	3			
74.60									9			
74.55									14			
74.50									4	4		
74.45										7		
74.40										9		
74.35										10		
74.30										1	11	6
74.25											16	15
74.20											3	10

Elev. (m.)	No. of days above elev.
75.20	4
75.15	43
75.10	58
75.05	73
75.00	100
74.95	134
74.90	155
74.85	185
74.80	212
74.75	227
74.70	236
74.65	246
74.60	255
74.55	269
74.50	277
74.45	284
74.40	293
74.35	303
74.30	321
74.25	352
74.20	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 2076: Olcott, New York on Lake Ontario

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	74.90	75.01	74.90	74.90	75.18	75.16	75.00	74.84	74.67	74.51	74.35	74.25
2	74.85	75.04	74.89	74.93	75.18	75.15	75.00	74.83	74.66	74.52	74.33	74.25
3	74.85	75.04	74.91	74.97	75.19	75.14	74.99	74.82	74.66	74.51	74.35	74.28
4	74.86	75.04	74.86	74.96	75.19	75.14	74.98	74.80	74.64	74.49	74.35	74.22
5	74.86	75.05	74.86	74.94	75.19	75.12	74.97	74.80	74.64	74.51	74.34	74.23
6	74.88	75.04	74.85	75.00	75.18	75.13	74.97	74.79	74.63	74.50	74.33	74.25
7	74.88	75.03	74.85	74.98	75.18	75.14	74.98	74.78	74.64	74.49	74.33	74.28
8	74.88	75.02	74.85	75.00	75.19	75.13	74.97	74.77	74.60	74.47	74.33	74.26
9	74.86	75.02	74.83	75.03	75.19	75.12	74.96	74.79	74.58	74.46	74.32	74.27
10	74.89	75.02	74.83	75.05	75.18	75.13	74.94	74.78	74.56	74.45	74.32	74.27
11	74.87	75.00	74.82	75.04	75.19	75.12	74.94	74.77	74.57	74.46	74.31	74.27
12	74.94	75.00	74.82	75.06	75.19	75.11*	74.93	74.76	74.62	74.45	74.30	74.26
13	74.98	75.02	74.81	75.07	75.21	75.11*	74.93	74.75	74.60	74.46	74.29	74.23
14	74.97	74.99	74.81	75.08	75.22	75.10	74.92	74.75	74.59	74.45	74.26	74.25
15	74.93	74.99	74.80	75.08	75.21	75.09	74.91	74.75	74.59	74.43	74.28	74.25
16	74.94	74.99	74.82	75.10	75.19	75.11	74.90	74.76	74.62	74.44	74.29	74.28
17	74.99	74.97	74.81	75.10	75.21	75.10	74.88	74.77	74.61	74.41	74.30	74.23
18	74.98	74.96	74.79	75.13	75.19	75.09	74.88	74.75	74.60	74.40	74.24	74.27
19	74.99	74.96	74.78	75.16	75.20	75.08	74.88	74.75	74.57	74.42	74.26	74.27
20	75.01	74.96	74.82	75.14	75.20	75.08	74.87	74.76	74.60	74.41	74.28	74.30
21	74.98	74.95	74.82	75.16	75.19	75.07	74.87	74.74	74.61	74.40	74.27	74.25
22	74.97	74.93	74.82	75.17	75.19	75.06	74.87	74.72	74.61	74.41	74.27	74.28
23	74.98	74.92	74.84	75.18	75.20	75.06	74.87	74.72	74.59	74.39	74.27	74.28
24	74.99	74.92	74.85	75.19	75.18	75.05	74.86	74.73	74.58	74.40	74.26	74.32
25	75.01	74.94	74.88	75.20	75.18	75.05	74.84	74.70	74.57	74.38	74.27	74.30
26	74.97	74.91	74.90	75.20	75.19	75.05	74.85	74.69	74.56	74.39	74.27	74.30
27	74.96	74.91	74.88	75.20	75.19	75.04	74.86	74.70	74.55	74.39	74.29	74.31
28	75.03	74.92	74.89	75.19	75.18	75.03	74.85	74.69	74.54	74.38	74.24	74.33
29	75.02		74.88	75.20	75.17	75.03	74.84	74.70	74.53	74.38	74.26	74.34
30	75.02		74.90	75.19	75.17	75.02	74.83	74.69	74.51	74.36	74.23	74.34
31	75.01		74.92		75.16		74.84	74.68		74.35		74.34
MEAN	74.94	74.98	74.85	75.09	75.19	75.09	74.91	74.75	74.60	74.43	74.29	74.28
MAX.	75.13	75.08	74.97	75.23	75.25	75.21	75.04	74.87	74.71	74.55	74.38	74.38
	0600/26	0100/03	2300/31	0600/26	2200/20	1400/01	0300/01	0100/01	0800/03	1800/03	0300/01	0200/30
MIN.	74.79	74.89	74.72	74.84	75.05	74.98	74.77	74.65	74.48	74.32	74.17	74.08
	0200/03	2200/26	1700/14	2300/01	0700/24	1600/30	2400/30	2100/31	0300/30	1000/31	0600/18	1300/04

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

ANNUAL MEAN: 74.78

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	98.65	Jun	96.51	Nov
Daily mean elevation:	101.13	10 Jan	96.12	29 Dec
Instant/hourly elevation:	103.16	0600/10 Jan	95.95	0300/18 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
101.13	10 Jan
96.71	24 Feb
97.65	29 Mar
98.87	13 Apr
99.04	31 May
98.97	9 Jun
98.51	4 Jul
98.49	17 Aug
98.27	11 Sep
98.62	6 Oct
98.37	18 Nov
98.11	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
96.28	20 Jan
96.56	18 Feb
96.43	13 Mar
98.00	16 Apr
98.03	6 May
98.23	24 Jun
98.00	21 Jul
98.00	31 Aug
97.71	23 Sep
97.72	30 Oct
96.12	20 Nov
96.12	29 Dec

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

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
101.00	1											
100.80												
100.60												
100.40												
100.20												
100.00												
99.80												
99.60												
99.40												
99.20												
99.00					2							
98.80	1			1	5	9						
98.60	2			5	9	9				1		
98.40				10	7	9	2	1				
98.20	2			11	2	3	7	5	3		1	
98.00	1			2	6		20	24	11	2		1
97.80	1			1			2	1	10	8		3
97.60	2		2						6	20		3
97.40			4									
97.20	5		2								1	3
97.00	4		1								3	1
96.80	3		1								2	4
96.60	5	6	4								1	3
96.40	3	22	17								3	1
96.20	1										9	5
96.00											10	7

Elev. (m.)	No. of days above elev.
101.00	1
100.80	1
100.60	1
100.40	1
100.20	1
100.00	1
99.80	1
99.60	1
99.40	1
99.20	1
99.00	3
98.80	19
98.60	45
98.40	74
98.20	108
98.00	175
97.80	201
97.60	234
97.40	238
97.20	249
97.00	258
96.80	268
96.60	287
96.40	333
96.20	348
96.00	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	97.11	96.59	96.59	98.58	98.18	98.86	98.07	98.13	98.03	97.87	96.33	96.59
2	98.14	96.66	96.59	98.33	98.35	98.88	98.40	98.05	98.06	97.88	96.66	96.22
3	98.24	96.59	96.56	98.21	98.25	98.65	98.42	98.08	98.06	97.74	96.33	96.20
4	97.12	96.59	96.53	98.27	98.13	98.86	98.51	98.10	98.04	98.05	96.12	97.78
5	97.38	96.59	96.54	98.41	98.16	98.85	98.40	98.03	98.06	97.91	96.12	97.99
6	97.35	96.64	96.54	98.21	98.03	98.64	98.39	98.01	98.04	98.62	96.45	96.96
7	96.98	96.70	96.54	98.68	98.11	98.72	98.39	98.12	98.11	98.10	96.15	96.23
8	97.32	96.58	96.53	98.26	98.16	98.84	98.13	98.25	98.03	97.75	96.28	96.32
9	98.88	96.60	96.52	98.25	98.41	98.97	98.00	98.37	98.04	97.77	96.85	96.34
10	101.13	96.60	96.54	98.42	98.47	98.49	98.19	98.22	98.04	97.90	96.12	97.21
11	98.65	96.57	96.57	98.54	98.49	98.75	98.12	98.19	98.27	97.77	96.12	96.70
12	97.84	96.59	96.58	98.60	98.82	98.96	98.12	98.15	98.26	97.79	96.12	96.91
13	96.69	96.59	96.43	98.87	98.47	98.88	98.19	98.05	97.98	97.76	96.25	97.69
14	96.63	96.60	96.50	98.49	98.55	98.81	98.26	98.15	98.03	97.73	96.91	97.96
15	97.18	96.59	96.57	98.25	98.65	98.72	98.32	98.05	98.22	97.78	96.35	97.96
16	97.28	96.59	96.58	98.00	98.65	98.49	98.25	98.14	97.85	97.73	96.19	96.98
17	96.44	96.58	96.62	98.33	98.85	98.53	98.13	98.49	97.81	97.74	96.38	97.70
18	96.54	96.56	96.59	98.20	98.95	98.61	98.16	98.04	97.83	97.87	98.37	96.65
19	96.62	96.61	96.63	98.10	99.01	98.66	98.07	98.09	97.92	97.92	96.60	96.13
20	96.28	96.60	96.64	98.45	98.76	98.49	98.04	98.07	97.84	97.80	96.12	96.18
21	96.76	96.59	97.01	98.66	98.88	98.48	98.00	98.20	97.83	97.75	96.12	98.11
22	96.65	96.58	97.60	98.40	98.75	98.61	98.15	98.05	97.78	97.77	96.25	97.20
23	96.60	96.61	97.61	98.44	98.69	98.52	98.19	98.12	97.71	97.77	96.49	96.73
24	96.91	96.71	97.38	98.77	98.57	98.23	98.15	98.09	97.76	97.75	97.18	96.12
25	97.12	96.58	96.65	98.56	98.69	98.36	98.02	98.04	97.88	97.80	96.33	97.31
26	98.31	96.58	96.85	98.37	98.77	98.48	98.02	98.04	97.78	97.85	96.12	96.82
27	98.70	96.59	97.36	98.65	98.85	98.57	98.13	98.05	97.83	97.81	96.27	97.33
28	97.78	96.59	97.58	98.79	98.56	98.62	98.04	98.29	97.80	97.77	97.39	96.34
29	97.75		97.65	98.58	98.71	98.60	98.16	98.40	97.79	97.74	97.14	96.12
30	97.37		97.56	98.26	98.72	98.38	98.01	98.06	97.84	97.72	97.15	96.13
31	96.83		97.47		99.04		98.10	98.00		97.76		96.13
MEAN	97.44	96.60	96.84	98.43	98.57	98.65	98.18	98.13	97.95	97.84	96.51	96.87
MAX.	103.16	97.28	97.84	100.02	100.15	100.17	99.66	99.90	99.60	100.16	101.15	99.12
	0600/10	0400/24	0700/22	1800/13	1200/11	2100/09	1500/04	1800/29	2100/11	1200/06	0600/18	1700/04
MIN.	95.95	96.32	96.11	96.09	96.02	96.32	96.08	96.09	96.07	96.08	96.06	96.09
	0300/18	1100/18	2300/13	0400/19	0500/01	0200/21	2400/19	2400/12	2200/22	2400/01	1100/03	0700/29

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

/ Indicates No Data.

ANNUAL MEAN: 97.67

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	170.28	Dec	Monthly mean elevation:	170.04	Feb
Daily mean elevation:	170.51	9 Jan	Daily mean elevation:	169.94	13 Feb
Instant/hourly elevation:	170.76	0800/18 Nov	Instant/hourly elevation:	169.76	2300/17 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
170.51	9 Jan
170.12	2 Feb
170.39	29 Mar
170.29	28 Apr
170.28	17 May
170.31	26 Jun
170.31	27 Jul
170.32	24 Aug
170.32	19 Sep
170.36	6 Oct
170.41	18 Nov
170.42	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
169.95	4 Jan
169.94	13 Feb
170.03	1 Mar
169.98	14 Apr
170.02	1 May
170.22	22 Jun
170.19	11 Jul
170.19	31 Aug
170.18	23 Sep
170.18	30 Oct
170.20	10 Nov
170.22	18 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
170.50	1											
170.45	2											
170.40											1	1
170.35			2							1		5
170.30	1		2			1	2	1	2		1	1
170.25			7	8	5	11	17	16	13	3	20	12
170.20	3		6	14	15	18	9	12	12	20	7	12
170.15	6		4	3	2		3	2	3	7	1	
170.10	4	1	3	1	6							
170.05	5	7	6	2	1							
170.00	4	16	1	1	2							
169.95	4	3		1								
169.90	1	1										

Elev. (m.)	No. of days above elev.
170.50	1
170.45	3
170.40	5
170.35	13
170.30	24
170.25	136
170.20	264
170.15	295
170.10	310
170.05	331
170.00	355
169.95	363
169.90	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	170.01	170.10	170.03	170.29	170.02	170.27	170.23	170.29	170.25	170.23	170.25	170.25
2	170.46	170.12	170.08	170.22	170.13	170.26	170.26	170.27	170.26	170.22	170.30	170.26
3	170.47	170.10	170.07	170.23	170.13	170.24	170.29	170.29	170.27	170.23	170.25	170.23
4	169.95	170.10	170.07	170.22	170.13	170.29	170.29	170.24	170.24	170.29	170.28	170.40
5	170.08	170.04	170.11	170.19	170.13	170.26	170.28	170.23	170.26	170.24	170.28	170.37
6	170.09	170.09	170.14	170.20	170.22	170.24	170.24	170.22	170.26	170.36	170.28	170.26
7	170.07	170.08	170.06	170.29	170.21	170.22	170.21	170.19	170.24	170.24	170.26	170.28
8	170.19	170.04	170.08	170.26	170.25	170.26	170.24	170.28	170.23	170.25	170.26	170.26
9	170.51	170.05	170.10	170.29	170.14	170.25	170.22	170.25	170.23	170.24	170.26	170.29
10	170.31	170.06	170.13	170.24	170.08	170.23	170.19	170.22	170.26	170.24	170.20	170.29
11	170.19	170.02	170.20	170.23	170.15	170.24	170.19	170.25	170.29	170.22	170.28	170.29
12	170.14	170.01	170.20	170.07	170.05	170.27	170.20	170.25	170.27	170.24	170.22	170.27
13	170.03	169.94	170.20	170.04	170.19	170.26	170.21	170.26	170.18	170.20	170.28	170.36
14	169.98	169.97	170.26	169.98	170.28	170.22	170.21	170.23	170.25	170.19	170.26	170.36
15	170.12	170.00	170.30	170.24	170.27	170.23	170.26	170.26	170.27	170.24	170.28	170.37
16	170.19	169.98	170.25	170.18	170.25	170.23	170.28	170.30	170.30	170.18	170.26	170.25
17	169.99	170.01	170.26	170.23	170.28	170.26	170.29	170.27	170.27	170.19	170.26	170.31
18	170.00	170.03	170.23	170.22	170.25	170.25	170.26	170.26	170.27	170.25	170.41	170.22
19	170.08	170.04	170.25	170.13	170.25	170.22	170.26	170.28	170.33	170.22	170.25	170.23
20	169.97	170.04	170.23	170.24	170.24	170.22	170.28	170.24	170.31	170.21	170.22	170.27
21	170.09	170.04	170.29	170.24	170.25	170.25	170.25	170.23	170.29	170.21	170.27	170.42
22	170.11	170.04	170.24	170.26	170.21	170.22	170.29	170.26	170.27	170.24	170.27	170.26
23	170.03	170.04	170.26	170.23	170.24	170.23	170.31	170.29	170.18	170.20	170.26	170.24
24	170.04	170.09	170.26	170.26	170.20	170.23	170.28	170.32	170.23	170.22	170.26	170.25
25	170.18	170.04	170.17	170.23	170.24	170.25	170.29	170.26	170.20	170.27	170.26	170.29
26	170.17	170.02	170.23	170.22	170.22	170.31	170.28	170.27	170.25	170.22	170.27	170.23
27	170.22	170.04	170.27	170.26	170.23	170.29	170.31	170.26	170.25	170.26	170.27	170.26
28	170.21	170.05	170.36	170.29	170.25	170.29	170.25	170.29	170.24	170.23	170.32	170.25
29	170.21		170.39	170.21	170.27	170.29	170.29	170.25	170.22	170.20	170.22	170.23
30	170.19		170.35	170.09	170.25	170.23	170.26	170.21	170.25	170.18	170.24	170.23
31	170.11		170.34		170.26		170.28	170.19		170.22		170.23
MEAN	170.14	170.04	170.21	170.21	170.20	170.25	170.26	170.26	170.25	170.23	170.27	170.28
MAX.	170.75	170.14	170.44	170.48	170.47	170.54	170.52	170.51	170.51	170.44	170.76	170.74
	2300/09	2300/02	2100/29	0800/10	0700/29	0700/26	0700/20	0700/03	0700/19	0700/25	0800/18	1800/04
MIN.	169.76	169.93	170.02	169.82	169.84	169.94	169.96	169.92	169.94	169.94	170.14	170.16
	2300/17	1500/13	0500/01	2200/29	2100/12	2100/07	2100/28	2100/07	1900/23	1900/23	2200/29	0300/19

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

ANNUAL MEAN: 170.22

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	171.14	May	Monthly mean elevation:	171.03	Nov
Daily mean elevation:	171.54	27 Jan	Daily mean elevation:	170.78	17 Jan
Instant/hourly elevation:	171.91	0345/10 Jan	Instant/hourly elevation:	170.28	1400/14 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
171.54	27 Jan
171.35	2 Feb
171.22	29 Mar
171.29	15 Apr
171.41	11 May
171.16	4 Jun
171.19	27 Jul
171.21	3 Aug
171.19	19 Sep
171.22	6 Oct
171.29	18 Nov
171.29	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
170.78	17 Jan
170.94	26 Feb
170.91	25 Mar
171.05	19 Apr
171.04	12 May
171.05	30 Jun
171.04	1 Jul
171.04	31 Aug
170.99	23 Sep
171.00	30 Oct
170.95	10 Nov
170.98	31 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
171.50	3											
171.45	2											
171.40	1				1							
171.35	1											
171.30	3	2			2							
171.25	1	1		2	2						1	2
171.20	2		1	1	2			1		1		2
171.15		2	1	5	2	1	6	4	2			2
171.10	2	3	2	10	7	12	10	12	11	2	1	1
171.05	2	8	3	8	12	15	12	4	12	10	2	5
171.00	2	8	15	4	3	2	3	4	4	16	21	12
170.95	3	3	7						1	2	4	7
170.90	3	1	2								1	
170.85	1											
170.80	3											
170.75	2											

Elev. (m.)	No. of days above elev.
171.50	3
171.45	5
171.40	7
171.35	8
171.30	15
171.25	24
171.20	34
171.15	59
171.10	132
171.05	225
171.00	319
170.95	346
170.90	353
170.85	354
170.80	357
170.75	359

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	170.83	171.33	171.00	171.13	171.09	171.13	171.04	171.17	171.10	171.05	171.00	171.01
2	171.35	171.35	171.02	171.06	171.08	171.13	171.09	171.17	171.11	171.04	171.08	171.01
3	171.33	171.26	171.00	171.06	171.16	171.09	171.12	171.21	171.12	171.04	171.01	170.98
4	170.91	171.15	171.03	171.05	171.09	171.16	171.13	171.15	171.09	171.12	171.04	171.26
5	171.00	171.06	171.03	171.05	171.22	171.12	171.12	171.12	171.11	171.06	171.04	171.20
6	170.99	171.16	171.01	171.05	171.31	171.08	171.10	171.08	171.11	171.22	171.05	171.03
7	171.00	171.17	170.95	171.16	171.30	171.08	171.08	171.05	171.10	171.06	171.02	171.04
8	171.05	171.07	170.99	171.19	171.31	171.14	171.10	171.15	171.08	171.07	171.02	171.02
9	171.47	171.05	171.00	171.12	171.28	171.13	171.06	171.12	171.07	171.06	171.03	171.06
10	171.52	171.11	170.99	171.07	171.24	171.07	171.06	171.08	171.10	171.06	170.95	171.09
11	171.27	171.03	171.00	171.10	171.41	171.10	171.06	171.11	171.16	171.05	171.04	171.07
12	170.95	171.09	171.02	171.26	171.04	171.15	171.07	171.11	171.12	171.07	170.96	171.04
13	170.89	171.02	171.02	171.25	171.07	171.13	171.09	171.12	171.01	171.03	171.04	171.20
14	170.78	171.07	171.05	171.20	171.14	171.09	171.08	171.09	171.10	171.02	171.04	171.21
15	171.08	171.11	171.03	171.29	171.11	171.08	171.13	171.11	171.12	171.07	171.04	171.21
16	171.11	171.06	171.03	171.13	171.10	171.08	171.17*	171.16	171.15	171.00	171.01	171.02
17	170.78	171.05	171.04	171.12	171.16	171.10	171.09*	171.15	171.12	171.02	171.03	171.15
18	170.85	171.05	171.02	171.07	171.12	171.10	171.12	171.11	171.13	171.08	171.29	170.98
19	170.95	171.06	171.04	171.05	171.11	171.09	171.13	171.14	171.19	171.05	171.01	170.99
20	170.81	171.06	171.01	171.16	171.09	171.06	171.15	171.10	171.15	171.03	170.97	171.03
21	171.04	171.05	171.08	171.15	171.11	171.12	171.11	171.17*	171.11	171.04	171.03	171.29
22	171.15	171.04	171.04	171.11	171.05	171.08	171.06*	/	171.09	171.08	171.02	171.06
23	171.09	171.03	171.06	171.13	171.09	171.10	171.05*	/	170.99	171.03	171.03	171.01
24	171.23	171.10	171.05	171.13	171.05	171.05	171.05*	/	171.05	171.05	171.06	171.00
25	171.21	171.00	170.91	171.09	171.09	171.08	171.16	/	171.02	171.11	171.02	171.10
26	171.36	170.94	171.00	171.07	171.09	171.15	171.16	/	171.07	171.04	171.03	171.01
27	171.54	170.97	171.08	171.14	171.10	171.13	171.19	/	171.07	171.08	171.03	171.05
28	171.48	170.98	171.18	171.18	171.09	171.14	171.12	171.04*	171.06	171.05	171.13	171.01
29	171.51		171.22	171.12	171.12	171.11	171.18	171.11	171.04	171.01	170.99	170.98
30	171.43		171.15	171.09	171.10	171.05	171.14	171.05	171.07	171.00	171.01	170.98
31	171.32		171.12		171.13		171.16	171.04		171.04		170.98
MEAN	171.14	171.09	171.04	171.13	171.14	171.10	171.11	171.12	171.09	171.06	171.03	171.07
MAX.	171.91	171.40	171.32	171.57	171.65	171.41	171.44	171.48	171.43	171.40	171.80	171.71
	0345/10	1505/02	2158/21	0756/12	0950/11	0702/12	0653/20	0623/03	0655/19	1100/06	0340/17	1650/04
MIN.	170.28	170.89	170.84	170.78	170.78	170.77	170.77	170.78	170.76	170.74	170.89	170.90
	1400/14	0213/27	0933/25	2204/05	2100/12	2102/15	2030/01	2110/15	1903/25	1907/16	2215/12	2255/03

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

ANNUAL MEAN: 171.09

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	172.51	Jan	Monthly mean elevation:	172.11	Nov
Daily mean elevation:	173.27	10 Jan	Daily mean elevation:	171.95	29 Dec
Instant/hourly elevation:	173.53	0943/10 Jan	Instant/hourly elevation:	171.83	0935/20 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.27	10 Jan
172.50	1 Feb
172.39	29 Mar
172.50	13 Apr
172.60	11 May
172.46	13 Jun
172.40	29 Jul
172.41	17 Aug
172.31	3 Sep
172.45	6 Oct
172.50	18 Nov
172.49	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
172.11	1 Jan
172.18	28 Feb
172.10	25 Mar
172.23	3 Apr
172.24	4 May
172.33	30 Jun
172.27	30 Jul
172.22	31 Aug
172.02	13 Sep
172.00	16 Oct
171.96	12 Nov
171.95	29 Dec

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

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
173.25	1											
173.20												
173.15												
173.10												
173.05												
173.00												
172.95	2											
172.90												
172.85												
172.80												
172.75	1											
172.70												
172.65	2											
172.60	3											
172.55	4				2							
172.50	3				2							
172.45	1	1		4	1	2					1	1
172.40	1	1		7	9	7		1		1		2
172.35	3	1	3	8	14	16	4	7				1
172.30	1	6	2	5		5	21	8	1			3
172.25	3	10	2	5			6	13	7	3		2
172.20	1	5	5	1	1			2	11	4	1	1
172.15	2	4	11						7	3	2	2
172.10	2		7						1	8	6	4
172.05			1							3	5	4
172.00									1		3	5
171.95										1	3	3
171.90												1

Elev. (m.)	No. of days above elev.
173.25	1
173.20	1
173.15	1
173.10	1
173.05	1
173.00	1
172.95	3
172.90	3
172.85	3
172.80	3
172.75	4
172.70	4
172.65	6
172.60	9
172.55	15
172.50	20
172.45	31
172.40	60
172.35	117
172.30	169
172.25	220
172.20	252
172.15	283
172.10	311
172.05	324
172.00	333
171.95	340
171.90	341
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	172.11	172.50	172.18	172.43	172.42	172.41	172.29	172.33	172.25	172.21	172.10*	172.12
2	172.57	172.44	172.21	172.29	172.39	172.43	172.29	172.32	172.27	172.15	/	172.05
3	172.63	172.36	172.18	172.23	172.38	172.39	172.29	172.37	172.31	172.16	/	172.01
4	172.32	172.32	172.20	172.32	172.24	172.41	172.33	172.32	172.25	172.29	172.11	172.44
5	172.26	172.31	172.24	172.36	172.40	172.44	172.34	172.30	172.28	172.23	172.11	172.35
6	172.13	172.31	172.20	172.28	172.51	172.38	172.34	172.29	172.30*	172.45	172.11	172.09
7	172.18	172.33	172.14	172.43	172.46	172.38	172.33	172.26	172.21*	172.30*	172.07	172.02
8	172.21	172.28	172.14	172.41	172.45	172.44	172.38	172.40	172.21	/	172.11	172.07
9	172.80	172.27	172.15	172.35	172.53	172.46	172.33	172.38	172.18	/	172.17	172.17
10	173.27	172.30	172.14	172.30	172.56	172.37	172.35	172.30	172.21	172.13*	172.05	172.28
11	172.98	172.34	172.14	172.41	172.60	172.39	172.32	172.32	172.29	172.13*	172.10	172.14
12	172.64	172.29	172.15	172.49	172.42	172.43	172.30	172.30	172.18*	172.26*	171.96	172.15
13	172.40	172.29	172.14	172.50	172.36	172.46	172.32	172.31	172.02*	172.12*	172.05	172.44
14	172.28	172.33	172.17	172.49	172.39	172.42	172.31	172.29	172.19*	/	172.20	172.34
15	172.51*	172.28	172.18	172.46	172.36	172.37	172.32	172.30	172.28*	/	172.09	172.32
16	/	172.24	172.16	172.36	172.37	172.35	172.33	172.38	172.28*	172.00*	172.01	172.08
17	172.20*	172.22	172.18	172.35	172.43	172.38	172.32	172.41	/	172.09*	172.09	172.38
18	172.40	172.29	172.18	172.27	172.42	172.39	172.31	172.31	/	/	172.50	172.05
19	172.47	172.27	172.20	172.30	172.42	172.37	172.31	172.37	172.23*	/	172.15	172.00
20	172.30	172.24	172.16	172.42	172.42	172.35	172.33	172.30	172.25	/	171.97*	171.98
21	172.53	172.23	172.25	172.43	172.44	172.39	172.31	172.28	172.27	172.13*	171.99*	172.49
22	172.59	172.26	172.27	172.39	172.39	172.39	172.33	172.30	172.21	172.16	/	172.21
23	172.61	172.29	172.29	172.37	172.40	172.38	172.40	172.32	172.16	172.12	/	172.08
24	172.60	172.22	172.25	172.39	172.39	172.33	172.30	172.36	172.24	172.14	/	172.00
25	172.36	172.18	172.10	172.34	172.40	172.34	172.32	172.29	172.18	172.22	/	172.28
26	172.70	172.18	172.23	172.32	172.39	172.39	172.35	172.29	172.20	172.15	/	172.12
27	172.99	172.19	172.33	172.40	172.38*	172.40	172.40	172.24	172.24	172.25	/	172.19
28	172.70	172.18	172.38	172.43	/	172.40	172.33	172.36	172.18	172.16	/	172.03
29	172.59		172.39	172.40	/	172.39	172.40	172.34	172.14	172.08	172.12*	171.95
30	172.51		172.36	172.39	172.39*	172.33	172.27	172.27	172.21	172.09*	172.22	/
31	172.42		172.32		172.43		172.32	172.22		/		/
MEAN	172.51	172.28	172.21	172.38	172.42	172.39	172.33	172.32	172.22	172.17	172.11	172.17
MAX.	173.53	172.57	172.43	172.64	172.72	172.57	172.58	172.53	172.47	172.75	173.35	172.92
	0943/10	0603/01	2015/28	1458/11	1057/11	1658/09	1410/29	0814/09	0840/03	1415/06	0415/18	1515/04
MIN.	171.90	172.13	172.04	172.09	172.06	172.21	172.06	172.13	171.94	171.93	171.83	171.86
	0433/26	1940/28	1835/25	0400/03	2127/04	2200/26	1515/03	2050/27	2110/13	2230/29	0935/20	0925/03

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

ANNUAL MEAN: 172.29

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.42	Jun	Monthly mean elevation:	174.00	Nov
Daily mean elevation:	174.99	10 Jan	Daily mean elevation:	173.75	20 Nov
Instant/hourly elevation:	176.25	0200/18 Nov	Instant/hourly elevation:	173.47	0200/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.99	10 Jan
174.11	7 Feb
174.31	28 Mar
174.48	13 Apr
174.50	9 May
174.51	13 Jun
174.42	8 Jul
174.39	17 Aug
174.23	6 Sep
174.43	6 Oct
174.77	18 Nov
174.64	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.83	20 Jan
174.02	28 Feb
173.96	25 Mar
174.16	3 Apr
174.20	4 May
174.35	25 Jun
174.19	30 Jul
174.10	31 Aug
173.82	13 Sep
173.89	16 Oct
173.75	20 Nov
173.76	29 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.
174.95	1												174.95	1
174.90													174.90	1
174.85													174.85	1
174.80													174.80	1
174.75	1										1		174.75	3
174.70	1												174.70	4
174.65													174.65	4
174.60	1											1	174.60	6
174.55												1	174.55	7
174.50	2					2						1	174.50	12
174.45	1			2	6	5							174.45	26
174.40				13	15	15	1			1			174.40	71
174.35				4	7	7	5	3				1	174.35	98
174.30			1	6	2	1	14	2					174.30	124
174.25	2		3	2			8	3			1	3	174.25	146
174.20	2		1	2			2	14	3	2		2	174.20	174
174.15	2		2	1	1		1	7	2	3	2	1	174.15	196
174.10	5	2	4						10	5	1	1	174.10	224
174.05	5	12	3					2	7	4	5	2	174.05	264
174.00	4	14	11						6	9		3	174.00	311
173.95	1		6						1	4	8	2	173.95	333
173.90	1									2	4	3	173.90	343
173.85	1									1	2	2	173.85	349
173.80	1								1		1	6	173.80	358
173.75											3	2	173.75	363
173.70							130				2		173.70	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.09	174.11	174.04	174.41	174.43	174.43	174.31	174.25	174.13	174.11	173.95	174.04
2	174.55	174.09	174.02	174.25	174.44	174.46	174.28	174.25	174.15	174.03	174.08	173.89
3	174.46	174.10	174.02	174.16	174.41	174.42	174.27	174.31	174.21	174.07	173.97	173.85
4	174.28	174.08	174.05	174.31	174.20	174.42	174.33	174.25	174.12	174.23	173.97	174.64
5	174.10	174.08	174.02	174.36	174.35	174.48	174.35	174.25	174.17	174.16	173.97	174.29
6	173.99	174.10	174.01	174.25	174.42	174.40	174.35	174.24	174.23	174.43	173.97	173.95
7	174.03	174.11	174.00	174.42	174.37	174.41	174.35	174.20	174.15	174.21	173.92	173.85
8	174.14	174.08	173.99	174.37	174.37	174.47	174.42	174.39	174.09	174.13	173.99	173.91
9	174.79	174.07	174.00	174.31	174.50	174.51	174.37	174.38	174.04	174.10	174.09	174.08
10	174.99	174.08	174.01	174.28	174.46	174.41	174.39	174.25	174.07	174.10	173.94	174.23
11	174.64	174.08	174.00	174.45	174.39	174.43	174.35	174.25	174.18	174.03	173.96	174.03
12	174.25	174.08	174.01	174.43	174.39	174.47	174.31	174.22	173.98	174.11	173.75	174.08
13	174.01	174.04	173.99	174.48	174.36	174.51	174.35	174.23	173.82	173.98	173.90	174.51
14	173.93	174.06	174.04	174.42	174.39	174.48	174.33	174.21	174.10	173.94	174.14	174.30
15	174.25	174.05	174.05	174.41	174.34	174.41	174.33	174.22	174.21	174.04	173.95	174.28
16	174.18	174.04	174.04	174.37	174.36	174.38	174.31	174.33	174.15	173.89	173.83	173.97
17	173.89	174.05	174.07	174.35	174.44	174.42	174.30	174.39	174.02	173.98	173.98	174.36
18	174.07	174.05	174.08	174.27	174.43	174.44	174.30	174.21	174.03	174.14	174.77	173.92
19	174.05	174.04	174.11	174.33	174.46	174.39	174.30	174.29	174.06	174.17	174.09	173.84
20	173.83	174.03	174.06	174.43	174.46	174.37	174.30	174.20	174.11	174.01	173.75	173.80
21	174.13	174.04	174.15	174.46	174.47	174.42	174.30	174.19	174.15	174.07	173.78	174.60
22	174.17	174.06	174.17	174.42	174.43	174.43	174.32	174.21	174.07	174.05	173.88	174.17
23	174.10	174.03	174.19	174.39	174.43	174.41	174.39	174.20	174.05	173.98	174.06	173.96
24	174.08	174.04	174.11	174.41	174.44	174.36	174.24	174.25	174.15	174.02	174.16	173.84
25	174.05	174.03	173.96	174.35	174.45	174.35	174.28	174.17	174.06	174.14	173.98	174.25
26	174.53	174.04	174.15	174.33	174.44	174.40	174.32	174.18	174.07	174.03	173.78	174.04
27	174.71	174.03	174.28	174.41	174.43*	174.44	174.37	174.10	174.15	174.18	173.79	174.14
28	174.29	174.02	174.31	174.43	174.41	174.44	174.31	174.27	174.05	174.05	174.28	173.88
29	174.14		174.30	174.42	174.41	174.43	174.39	174.27	174.01	173.92	174.06	173.76
30	174.15		174.28	174.42	174.43	174.36	174.19	174.19	174.11	173.97	174.19	173.85
31	174.11		174.24		174.47		174.25	174.10		174.01		173.85
MEAN	174.23	174.06	174.09	174.37	174.41	174.42	174.32	174.24	174.10	174.07	174.00	174.07
MAX.	175.83	174.14	174.41	174.84	174.71	174.68	174.57	174.52	174.44	174.97	176.25	176.13
	1300/26	0300/07	1000/28	1400/11	2300/30	1300/26	1500/29	0600/08	2300/14	2300/05	0200/18	1400/04
MIN.	173.47	174.00	173.85	173.97	174.05	174.25	174.15	174.03	173.74	173.71	173.47	173.62
	0600/26	1200/28	0700/25	0400/03	2100/04	2200/26	0300/30	0700/31	1500/12	0200/14	0200/27	0800/03

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

ANNUAL MEAN: 174.20

ANNUAL SUMMARY OF LEVELS, 1978
Station 3028: Sturgeon Point, New York on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	174.41	Jun	173.98	Nov	
Daily mean elevation:	174.92	10 Jan	173.77	29 Dec	
Instant/hourly elevation:	175.96	1200/26 Jan	173.35	0400/26 Jan	

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.92	10 Jan
174.12	7 Feb
174.32	28 Mar
174.50	13 Apr
174.51	9 May
174.49	13 Jun
174.40	8 Jul
174.36	8 Aug
174.21	6 Sep
174.36	6 Oct
174.39	18 Nov
174.42	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.86	20 Jan
173.98	28 Feb
173.97	5 Mar
174.18	3 Apr
174.22	4 May
174.34	25 Jun
174.19	30 Jul
174.10	31 Aug
173.84	13 Sep
173.90	16 Oct
173.77	20 Nov
173.77	29 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	1												174.90	1
174.85													174.85	1
174.80													174.80	1
174.75	1												174.75	2
174.70	1												174.70	3
174.65													174.65	3
174.60	2												174.60	5
174.55													174.55	5
174.50	1				1								174.50	7
174.45				5	3	5							174.45	20
174.40	1			12	15	12						2	174.40	62
174.35				6	9	11	3	1		1	1		174.35	94
174.30			2	3	2	2	12	3				2	174.30	120
174.25	3		2	2			13	3			1		174.25	144
174.20	1		1	1	1		2	13	1			3	174.20	167
174.15	2		3	1			1	9	2	4		2	174.15	191
174.10	7	3	2						10	4	2	1	174.10	220
174.05	4	11	1					2	8	5	2	2	174.05	255
174.00	3	11	4						6	8	4	4	174.00	295
173.95	2	3	8						2	7	8		173.95	325
173.90										1	4	5	173.90	335
173.85	2									1	2	2	173.85	342
173.80									1		2	7	173.80	352
173.75											4	1	173.75	357
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3028: Sturgeon Point, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.12	174.11	174.00	174.42	174.45	174.42	174.30	174.23	174.12	174.09	173.95	174.02
2	174.53	174.10	173.98	174.25	174.46	174.46	174.28	174.24	174.14	174.02	174.05	173.89
3	174.41	174.10	173.98	174.18	174.43	174.41	174.28	174.30	174.19	174.08	173.97	173.85
4	174.27	174.09	174.00	174.33	174.22	174.41	174.32	174.24	174.12	174.20	173.97	174.33
5	174.12	174.09	173.97*	174.37	174.37	174.46	174.33	174.24	174.15	174.14	173.97	174.21
6	174.02	174.11	/	174.27	174.43	174.39	174.33	174.23	174.21	174.36	173.97	173.94
7	174.06	174.12	/	174.43	174.38	174.40	174.34	174.19	174.13	174.20	173.93	173.85
8	174.15	174.09	/	174.40	174.38	174.45	174.40	174.36	174.09	174.13	173.99	173.91
9	174.78	174.09	/	174.33	174.51	174.48	174.35	174.33	174.03	174.09	174.06	174.08
10	174.92	174.08	/	174.32	174.46	174.40	174.36	174.23	174.07	174.08	173.94	174.20
11	174.61	174.08	/	174.48	174.40	174.41	174.34	174.25	174.15	174.03	173.96	174.02
12	174.22	174.08	/	174.45	174.39	174.45	174.29	174.21	173.97	174.08	173.78	174.05
13	174.00	174.04	/	174.50	174.35	174.49	174.33	174.21	173.84	173.97	173.90	174.41
14	173.96	174.07	174.03*	174.44	174.40	174.46	174.32	174.21	174.09	173.96	174.10	174.23
15	174.26	174.04	174.00	174.45	174.35	174.39	174.32	174.21	174.16	174.03	173.95	174.19
16	174.18	174.04	173.99	174.41	174.37	174.37	174.30	174.31	174.14	173.90	173.84	173.95
17	173.89	174.06	174.03	174.39	174.43	174.41	174.30	174.33	174.02	173.98	173.97	174.33
18	174.09	174.05	174.03	174.30	174.43	174.41	174.28	174.20	174.04	174.11	174.39	173.92
19	174.04	174.04	174.07	174.37	174.45	174.38	174.28	174.28	174.06	174.16	174.04	173.83
20	173.86	174.03	174.03	174.46	174.44	174.36	174.28	174.19	174.10	174.00	173.77	173.81
21	174.14	174.03	174.13	174.49	174.46	174.40	174.28	174.17	174.14	174.05	173.79	174.42
22	174.18	174.03	174.16	174.46	174.42	174.41	174.30	174.20	174.06	174.04	173.88	174.11
23	174.10	174.03	174.19	174.42	174.42	174.39	174.36	174.18	174.04	173.99	174.03	173.94
24	174.09	174.01	174.12	174.44	174.44	174.35	174.23	174.24	174.14	174.02	174.14	173.83
25	174.05	174.00	173.98	174.38	174.44	174.34	174.27	174.16	174.05	174.11	173.98	174.21
26	174.61	174.01	174.16	174.36	174.43	174.39	174.31	174.17	174.07	174.02	173.79	174.02
27	174.73	174.00	174.30	174.43	174.42	174.42	174.34	174.10	174.13	174.17	173.81	174.10
28	174.28	173.98	174.32	174.45	174.40	174.42	174.29	174.26	174.04	174.03	174.27	173.87
29	174.15		174.31	174.44	174.40	174.41	174.34	174.23	174.00	173.93	174.03	173.77
30	174.15		174.28	174.43	174.44	174.36	174.19	174.18	174.08	173.96	174.14	173.85
31	174.12		174.25		174.45		174.25	174.10		174.00		173.85
MEAN	174.23	174.06	174.10	174.40	174.41	174.41	174.31	174.23	174.09	174.06	173.98	174.03
MAX.	175.96	174.16	174.45	174.83	174.73	174.68	174.58	174.52	174.42	174.97	175.45	175.02
	1200/26	0100/07	0900/28	1400/11	2200/30	2400/12	2300/26	0500/08	2200/14	2200/05	0200/18	1400/04
MIN.	173.35	173.96	173.86	173.97	174.07	174.21	174.14	174.03	173.72	173.73	173.52	173.63
	0400/26	0100/25	0700/25	0300/03	2000/04	2100/26	0200/30	0700/31	0300/13	0100/14	0200/27	0700/03

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

/ Indicates No Data.

ANNUAL MEAN: 174.19

ANNUAL SUMMARY OF LEVELS, 1978
Station 3032: Barcelona, New York on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.41	May	Monthly mean elevation:	173.93	Nov
Daily mean elevation:	174.54	10 Jan	Daily mean elevation:	173.76	27 Nov
Instant/hourly elevation:	174.61	1400/10 Jan	Instant/hourly elevation:	173.64	0300/27 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.54	10 Jan
174.12	1 Feb
174.30	29 Mar
174.45	22 Apr
174.46	21 May
174.46	13 Jun
174.37	8 Jul
174.31	17 Aug
174.16	7 Sep
174.21	6 Oct
174.05	28 Nov
174.12	13 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.87	20 Jan
174.04	28 Feb
174.01	25 Mar
174.15	3 Apr
174.28	5 May
174.35	30 Jun
174.21	30 Jul
174.12	31 Aug
173.85	13 Sep
173.92	14 Oct
173.76	27 Nov
173.78	29 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	1												174.50	1
174.45					1	1							174.45	3
174.40				12	20	8							174.40	43
174.35	1			7	8	19	1						174.35	79
174.30				7		2	12	3					174.30	103
174.25	3		4	3	2		15	2					174.25	132
174.20	1						3	15		1			174.20	152
174.15	2		4					9	3				174.15	170
174.10	5	5	1	1				2	8	2		1	174.10	195
174.05	7	14	5						8	9		5	174.05	243
174.00	1	9	17						8	8	6	2	174.00	294
173.95	3								2	7	8	6	173.95	320
173.90	1									4	7	5	173.90	337
173.85	2										4	5	173.85	348
173.80									1		2	4	173.80	355
173.75											3	3	173.75	361
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3032: Barcelona, New York on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	174.12	174.04	174.31	174.42	174.42*	174.29	174.24	174.12	174.08	173.94	173.96
2	/	174.11	174.03	174.29	174.44	174.44	174.27	174.25	174.14	174.04	174.00	173.87
3	/	174.11	174.03	174.15	174.44	174.38	174.27	174.28	174.16	174.04	173.97	173.79
4	/	174.10	174.04	174.26	174.30	174.39	174.32	174.25	174.11	174.12	173.97	173.99
5	174.12*	174.10	174.03	174.33	174.28	174.43	174.33	174.24	174.14	174.07	173.97	173.95
6	174.08	174.11	174.02	174.28	174.37	174.39	174.33	174.23	174.16	174.21	173.97	173.88
7	174.05	174.11	174.02	174.33	174.39	174.39	174.33	174.21	174.16	174.15	173.92	173.81
8	174.09	174.10	174.01	174.37	174.37	174.43	174.37	174.31	174.10	174.10	173.96	173.89
9	174.29	174.09	174.01	174.35	174.42	174.45	174.34	174.31	174.05	174.07	174.02	173.96
10	174.54	174.09	174.01	174.32	174.45	174.39	174.35	174.23	174.03	174.07	173.95	174.09
11	174.39	174.09	174.01	174.37	174.42	174.41	174.33	174.23	174.13	174.01	173.95	173.97
12	174.24	174.09	174.01	174.40	174.40	174.43	174.30	174.21	173.98	174.04	173.83	173.99
13	174.09	174.08	174.01	174.42	174.37	174.46	174.31	174.22	173.85	174.00	173.88	174.12
14	173.94	174.07	174.01	174.44	174.39	174.42	174.32	174.21	174.02	173.92	174.02	174.09
15	174.09	174.07	174.03	174.42	174.39	174.37	174.30	174.20	174.13	174.03	173.94	174.07
16	174.17	174.07	174.05	174.40	174.39	174.37	174.28	174.28	174.10	173.94	173.88	173.91
17	173.99	174.07	174.07	174.40	174.42	174.38	174.29	174.31	174.00	173.98	173.86	174.07
18	173.96	174.06	174.08	174.33	174.43	174.39	174.29	174.21	174.03	174.07	174.02	173.92
19	174.06	174.06	174.10	174.34	174.44	174.38	174.28	174.24	174.09	174.07	173.91	173.82
20	173.87	174.05	174.10	174.39	174.45	174.37	174.28	174.21	174.11	173.97	173.79	173.79
21	174.00	174.05	174.12	174.44	174.46	174.39	174.28	174.19	174.14	174.03	173.79	174.10
22	174.10	174.05	174.16	174.45	174.45	174.40	174.29	174.19	174.09	174.03	173.88	174.02
23	174.12	174.05	174.19	174.44	174.43	174.39	174.32	174.19	174.05	174.00	173.93	173.91
24	174.11	174.05	174.16	174.43	174.43	174.36	174.25	174.22	174.10	174.00	174.05	173.82
25	174.10	174.04	174.01	174.42	174.45	174.35	174.26	174.18	174.07	174.06	173.98	174.00
26	173.90	174.04	174.10	174.39	174.45	174.36	174.27	174.17	174.06	174.01	173.81	173.92
27	174.28	174.04	174.20	174.41	174.44	174.40	174.32	174.13	174.10	174.08	173.76	174.01
28	174.30	174.04	174.27	174.43	174.43	174.39	174.28	174.19	174.05	174.00	174.05	173.87
29	174.18		174.30	174.44	174.42	174.39	174.31	174.20	174.02	173.94	173.96	173.78
30	174.15		174.29	174.42	174.42	174.35	174.21	174.17	174.05	173.95	174.04	173.84
31	174.13		174.28		174.44		174.23	174.12		173.99		173.86
MEAN	174.12	174.08	174.09	174.37	174.41	174.40	174.30	174.22	174.08	174.03	173.93	173.94
MAX.	174.61	174.13	174.30	174.46	174.47	174.52	174.44	174.37	174.36	174.38	174.28	174.25
	1400/10	0800/01	0800/29	1300/22	1800/31	1800/27	1600/08	0600/17	0100/08	1600/06	0600/18	2300/13
MIN.	173.66	174.03	173.98	174.10	174.19	174.28	174.18	174.08	173.79	173.80	173.64	173.68
	0600/26	2400/28	1000/25	0600/03	2100/04	0800/27	0400/30	1000/31	0600/13	0300/14	0300/27	0900/03

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

ANNUAL MEAN: 174.16

ANNUAL SUMMARY OF LEVELS, 1978
Station 3038: Erie, Pennsylvania on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.44	May	Monthly mean elevation:	173.97	Nov
Daily mean elevation:	174.59	10 Jan	Daily mean elevation:	173.81	29 Dec
Instant/hourly elevation:	175.00	1057/26 Jan	Instant/hourly elevation:	173.62	0630/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.59	10 Jan
174.13	6 Feb
174.31	28 Mar
174.49	21 Apr
174.48	21 May
174.48	13 Jun
174.39	8 Jul
174.33	8 Aug
174.19	3 Sep
174.25	6 Oct
174.17	18 Nov
174.22	21 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.99	17 Jan
174.04	27 Feb
174.01	13 Mar
174.27	3 Apr
174.30	4 May
174.38	25 Jun
174.25	30 Jul
174.15	31 Aug
173.96	13 Sep
173.96	29 Oct
173.84	26 Nov
173.81	29 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	3												174.55	3
174.50													174.50	3
174.45				6	12	3							174.45	24
174.40				12	14	19							174.40	69
174.35	1			4	4	8	8						174.35	94
174.30	2		1	6			17	3					174.30	123
174.25	2		4	2	1		5	9					174.25	146
174.20	1		1				1	14		1		1	174.20	165
174.15	7		3					4	4	1	1	2	174.15	187
174.10	7	7	2					1	13	4	1	1	174.10	223
174.05	6	18	5						9	6	1	5	174.05	273
174.00		3	14						3	15	3	2	174.00	313
173.95	2								1	4	14	5	173.95	339
173.90											4	4	173.90	347
173.85											3	6	173.85	356
173.80											3	5	173.80	364

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3038: Erie, Pennsylvania on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.24*	174.12	174.05*	174.38	174.46	174.45	174.34	174.26	174.16	174.10	173.98	173.96
2	174.38	174.12	/	174.27	174.46	174.45*	174.32	174.27	174.16	174.06	174.01	173.90
3	174.30	174.12	174.05*	174.27*	174.43	174.43	174.34	174.31	174.19	174.08	173.98	173.85
4	174.18	174.11	174.05	174.34	174.30	174.44	174.37	174.28	174.14	174.15	173.98	174.14
5	174.13	174.11*	174.04*	174.35	174.40	174.45	174.37	174.27	174.15	174.11	173.98	174.06
6	174.09	174.13*	174.04*	174.31	174.44	174.41	174.36	174.26	174.17	174.25	173.98	173.92
7	174.10	174.11	174.03	174.40	174.40	174.42	174.36	174.24	174.14	174.16	173.96	173.89
8	174.16	174.10	174.03	174.39	174.39	174.46	174.39	174.33	174.13	174.13	173.99	173.94
9	174.58	174.10	174.03	174.35	174.48	174.47	174.36	174.31	174.10	174.07	174.00	174.07
10	174.59	174.10	174.03	174.35	174.45	174.43	174.37	174.25	174.11	174.05	173.95	174.10
11	174.35	174.10	174.02	174.44	174.42	174.43	174.36	174.27	174.14	174.03	173.96	173.96
12	174.17	174.09	174.03*	174.43	174.41	174.45	174.32	174.25	174.04	174.05	173.89	173.97
13	174.07	174.08	174.01*	174.46	174.40	174.48	174.33	174.25	173.96	174.01	173.92	174.18
14	174.08	174.10	174.05	174.42	174.43	174.45	174.34	174.24	174.10	174.02	174.03	174.10
15	174.20	174.08	174.06	174.43	174.42	174.39	174.33	174.23	174.14	174.04	173.96	174.03
16	174.17	174.08	174.07	174.42	174.41	174.39	174.32	174.28	174.14	173.97	173.89	173.93
17	173.99	174.08	174.09	174.41	174.43	174.41	174.32	174.29	174.07	174.02	173.95	174.17
18	174.12	174.07	174.09	174.35	174.43	174.41	174.31	174.22	174.12	174.07	174.17	173.93
19	174.09	174.07	174.11	174.40	174.45	174.40	174.31	174.26	174.10	174.13	173.99	173.85
20	174.00	174.07	174.09	174.46	174.46	174.39	174.30	174.24	174.13	174.01	173.85	173.85
21	174.14	174.07	174.16	174.49	174.48	174.42	174.31	174.21	174.14	174.03	173.85	174.22
22	174.16*	174.07	174.17	174.46	174.46	174.42	174.31	174.22	174.11	174.02	173.92	174.00
23	174.12	174.06	174.20	174.44	174.45	174.42	174.34	174.21	174.07	174.03	173.99	173.90
24	174.11	174.05	174.14	174.45	174.46	174.39	174.28	174.24	174.12	174.03	174.09	173.85
25	174.09	174.06	174.05	174.42	174.46	174.38	174.29	174.20	174.08	174.05	173.99	174.10
26	174.34	174.06	174.21*	174.42	174.46	174.39	174.31	174.20	174.07	174.01	173.84	173.98
27	174.57	174.04	174.30*	174.46	174.46	174.43	174.34	174.16	174.10	174.09	173.88	174.01
28	174.26	174.05	174.31	174.47	174.44	174.42	174.30	174.24	174.05	174.01	174.14	173.88
29	174.15		174.30	174.45	174.44	174.41	174.32	174.21	174.02	173.96	173.96	173.81
30	174.16		174.29	174.45	174.46	174.40	174.25	174.19	174.06	173.97	174.04	173.87
31	174.13		174.27		174.46		174.27	174.15		174.00		173.86
MEAN	174.20	174.09	174.11	174.40	174.44	174.42	174.33	174.24	174.11	174.06	173.97	173.98
MAX.	175.00	174.16	174.38	174.60	174.63	174.66	174.47	174.51	174.37	174.50	174.85	174.60
	1057/26	0009/07	0730/28	1530/11	1624/09	1027/26	2148/26	1956/19	0538/12	1122/06	0226/18	0335/17
MIN.	173.62	174.02	173.96	174.09	174.17	174.15	174.19	174.09	173.82	173.85	173.68	173.70
	0630/26	1122/28	0700/25	0204/03	1810/04	1800/26	1125/30	1543/15	1532/13	2110/05	0150/27	0635/03

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

/ Indicates No Data.

ANNUAL MEAN: 174.20

ANNUAL SUMMARY OF LEVELS, 1978
Station 3053: Fairport Harbor, Ohio on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	174.47	May
Daily mean elevation:	174.50	22 May
Instant/hourly elevation:	174.70	1800/30 May

LOWEST		
Monthly mean elevation:	173.92	Dec
Daily mean elevation:	173.85	15 Dec
Instant/hourly elevation:	173.69	0325/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.09	18 Jan
174.32	31 Feb
174.49	26 Mar
174.50	22 Apr
174.47	3 May
174.40	4 Jun
174.31	4 Jul
174.18	18 Aug
174.11	1 Sep
174.02	12 Oct
174.01	9 Nov
	9 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.05	22 Jan
174.03	6 Feb
174.31	1 Mar
174.43	4 Apr
174.39	27 May
174.29	31 Jun
174.19	28 Jul
174.07	30 Aug
173.98	25 Sep
173.91	18 Oct
173.85	15 Nov
	15 Dec

~~~~~~~~~~~ FRFQUENCY 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				12	26	7							174.45	45
174.40				11	5	21							174.40	82
174.35				5		2	13						174.35	102
174.30			2	2			15	2					174.30	123
174.25			5				3	14					174.25	145
174.20			2					8					174.20	155
174.15			2					3	13				174.15	173
174.10			4						12	1			174.10	190
174.05		11	4						5	12			174.05	222
174.00		1	12							16	3	1	174.00	255
173.95										2	20	3	173.95	280
173.90											7	15	173.90	302
173.85												11	173.85	313
173.80												1	173.80	314
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTRFMES, 1978

Station 3053: Fairport Harbor, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	174.06	174.31	174.47	174.47	174.38	174.28	174.18	174.11	174.01	173.91
2	/	/	174.05	174.33	174.46	174.47	174.38	174.29	174.16	174.10	173.97	173.94
3	/	/	174.04	174.37	174.45	174.47	174.40	174.31	174.17	174.08	174.00	173.93
4	/	/	174.03	174.37	174.43	174.45	174.40	174.31	174.17	174.07	173.99	173.91
5	/	/	174.03	174.36	174.46	174.44	174.36	174.30	174.15	174.05	173.98	173.90
6	/	/	174.03	174.40	174.46	174.43	174.36	174.29	174.14	174.09	174.00	173.94
7	/	/	174.04	174.39	174.46	174.44	174.36	174.29	174.16	174.10	174.00	173.96
8	/	/	174.04	174.41	174.45	174.46	174.36	174.28	174.17	174.09	173.98	173.99
9	/	/	174.05	174.41	174.46	174.45	174.37	174.28	174.16	174.05	173.95	174.01
10	/	/	174.05	174.43	174.45	174.46	174.38	174.29	174.15	174.03	173.97	173.96
11	/	/	174.05	174.42	174.46	174.44	174.36	174.28	174.11	174.04	173.97	173.92*
12	/	/	174.05	174.43	174.45	174.46	174.36	174.28	174.16	174.03	174.02	173.90*
13	/	/	174.05*	174.42	174.47	174.46	174.34	174.27	174.15	174.07	173.97	173.91
14	/	/	174.06	174.44	174.47	174.43	174.36	174.26	174.13	174.09	173.97	173.92
15	/	/	174.07	174.43	174.49	174.43	174.35	174.26	174.14	174.07	173.99	173.85
16	/	/	174.10	174.43	174.48	174.42	174.35	174.25	174.13	174.08	173.99	173.90
17	/	174.09*	174.11	174.43	174.48	174.42	174.34	174.24	174.15	174.07	173.97	173.90
18	/	174.09	174.11	174.44	174.49	174.42	174.33	174.26	174.18	174.03	173.91	173.92
19	/	174.08	174.13	174.46	174.48	174.43	174.33	174.23*	174.17	174.05	173.97	173.90
20	/	174.08	174.14	174.47	174.48	174.42	174.32	/	174.16	174.05	174.01	173.92
21	/	174.07*	174.17	174.47	174.50	174.43	174.32	/	174.16	174.02	173.99	173.89
22	/	174.05*	174.20	174.48	174.50	174.42	174.32	/	174.16	174.02	173.97	173.88
23	/	174.07*	174.23	174.48	174.49	174.41	174.31	/	174.13	174.07	173.94	173.89
24	/	174.06	174.24	174.49	174.49	174.41	174.32	174.23*	174.12	174.03	173.99	173.90
25	/	174.07	174.28	174.49	174.48	174.40	174.31	174.23	174.13	173.98	173.96	173.92
26	/	174.06	174.30	174.49	174.48	174.42	174.30	174.22	174.10	174.03	173.95	173.92
27	/	174.06	174.29	174.48	174.48	174.39	174.32	174.22	174.08	173.99	173.98	173.92
28	/	174.07	174.29	174.47	174.48	174.41	174.31	174.19	174.10	174.01	173.95	173.89
29	/		174.30	174.47	174.46	174.41	174.29	174.20	174.07	174.02	173.92	173.90
30	/		174.31	174.46	174.47	174.41	174.32	174.20	174.07	174.01	173.93	173.91
31	/		174.32		174.47		174.29	174.21		174.01		173.91
MEAN	/	174.07	174.14	174.43	174.47	174.43	174.34	174.26	174.14	174.05	173.97	173.92
MAX.		174.11	174.38	174.56	174.70	174.67	174.44	174.40	174.29	174.42	174.27	174.09
		0830/18	1654/31	0753/26	1800/30	0130/05	0450/27	0157/04	0134/15	1740/05	1950/17	0055/21
MIN.		174.04	174.00	174.25	174.32	174.20	174.14	174.11	174.00	173.83	173.69	173.70
		0925/25	1750/08	1125/01	2128/09	1840/12	1110/29	1100/28	0925/12	2155/05	0325/18	1337/04

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

ANNUAL MEAN: 174.20

ANNUAL SUMMARY OF LEVELS, 1978
Station 3063: Cleveland, Ohio on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	174.46	May
Daily mean elevation:	174.50	21 May
Instant/hourly elevation:	174.58	1900/12 Jun

LOWEST		
Monthly mean elevation:	173.88	Dec
Daily mean elevation:	173.74	15 Dec
Instant/hourly elevation:	173.02	1200/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.25	20 Jan
174.13	5 Feb
174.36	25 Mar
174.49	26 Apr
174.50	21 May
174.46	13 Jun
174.42	3 Jul
174.31	4 Aug
174.20	13 Sep
174.11	14 Oct
174.04	20 Nov
173.98	8 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.83	26 Jan
174.07	28 Feb
174.04	14 Mar
174.29	1 Apr
174.42	12 May
174.39	27 Jun
174.27	29 Jul
174.17	28 Aug
174.05	30 Sep
173.93	25 Oct
173.84	18 Nov
173.74	15 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				11	21	4							174.45	36
174.40				9	10	18	1						174.40	74
174.35			1	7		8	11						174.35	101
174.30			3	2			13	1					174.30	120
174.25			4	1			6	12					174.25	143
174.20	5		1					14					174.20	163
174.15	5		1					4	11				174.15	184
174.10	11	10	3						13	2			174.10	223
174.05	6	18	9						5	8			174.05	269
174.00	1		9						1	14	5		174.00	299
173.95	2									5	16	2	173.95	324
173.90										2	4	8	173.90	338
173.85											4	13	173.85	355
173.80	1										1	4	173.80	361
173.75												3	173.75	364
173.70												1	173.70	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3063: Cleveland, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.21	174.13	174.06	174.29	174.45	174.46	174.40	174.27	174.17	174.11	174.02	173.87
2	174.06	174.13	174.06	174.35	174.44	174.45	174.39	174.27	174.15	174.10	173.96	173.94
3	174.07	174.13	174.07	174.39	174.44	174.46	174.42	174.30	174.16	174.05	173.99	173.92
4	174.07	174.13	174.05	174.36	174.49	174.44	174.40	174.31	174.17	174.04	173.98	173.81
5	174.14	174.13	174.05	174.35	174.46	174.43	174.39	174.29	174.14	174.03	173.97	173.79
6	174.18	174.12	174.05	174.39	174.44	174.42	174.38	174.29	174.12	174.03	174.00	173.92
7	174.17	174.11	174.06	174.37	174.46	174.44	174.38	174.30	174.15	174.09	174.02	173.95
8	174.18	174.12	174.06	174.40	174.43	174.46	174.36	174.25	174.16	174.09	173.97	173.98
9	174.11	174.11	174.05	174.41	174.42	174.44	174.37	174.25	174.17	174.03	173.90	173.97
10	174.00	174.10	174.04	174.43	174.44	174.45	174.38	174.29	174.14	174.02	173.96	173.89
11	174.01	174.10	174.04	174.40	174.44	174.43	174.36	174.27	174.10	174.02	173.96	173.88
12	174.11	174.09	174.04	174.41	174.42	174.43	174.36	174.27	174.17	174.02	174.04	173.86
13	174.21	174.12	174.05	174.40	174.46	174.46	174.32	174.27	174.20	174.07	173.96	173.81
14	174.23	174.10	174.04	174.42	174.47	174.42	174.34	174.26	174.09	174.11	173.95	173.81
15	174.10	174.10	174.07	174.41	174.49	174.42	174.34	174.25	174.12	174.06	173.98	173.74
16	174.11	174.09	174.09	174.42	174.48	174.41	174.35	174.21	174.11	174.09	174.00	173.86
17	174.25	174.09	174.10	174.42	174.47	174.40	174.33	174.22	174.14	174.07	173.92	173.85
18	174.15	174.09	174.10	174.45	174.47	174.41	174.32	174.25	174.17	174.00	173.84	173.91
19	174.17	174.09	174.11	174.46	174.47	174.42	174.32	174.24	174.18	174.02	173.93	173.91
20	174.25	174.09	174.14	174.46	174.46	174.42	174.31	174.26	174.15	174.04	174.04	173.93
21	174.13	174.08	174.15	174.46	174.50	174.42	174.32	174.25	174.16	173.99	174.01	173.78
22	174.10	174.07	174.19	174.47	174.49	174.41	174.30	174.22	174.17	174.00	173.97	173.80
23	174.13	174.07	174.22	174.47	174.48	174.40	174.30	174.22	174.14	174.09	173.91	173.88
24	174.13	174.07	174.30	174.47	174.48	174.40	174.32	174.20	174.11	174.01	173.97	173.90
25	174.16	174.07	174.36	174.49	174.47	174.39	174.29	174.22	174.14	173.93	173.96	173.88
26	173.83	174.07	174.32	174.49	174.47	174.39	174.28	174.21	174.10	174.03	173.98	173.90
27	173.99	174.07	174.28	174.46	174.47	174.39	174.31	174.22	174.08	173.94	174.00	173.89
28	174.10	174.07	174.27	174.45	174.46	174.40	174.31	174.17	174.11	174.01	173.88	173.89
29	174.14		174.30	174.46	174.46	174.40	174.27	174.18	174.08	174.03	173.86	173.92
30	174.11		174.31	174.46	174.45	174.41	174.33	174.19	174.05	174.00	173.88	173.89
31	174.13		174.32		174.46		174.29	174.21		174.00		173.89
MEAN	174.12	174.10	174.14	174.42	174.46	174.42	174.34	174.25	174.14	174.04	173.96	173.88
MAX.	174.42	174.16	174.39	174.56	174.56	174.58	174.46	174.39	174.35	174.32	174.19	174.04
	0500/26	1100/07	0600/25	1500/19	1000/21	1900/12	2300/01	0100/04	1400/12	1700/05	2000/17	1900/08
MIN.	173.02	174.04	173.97	174.22	174.26	174.15	174.14	174.10	173.99	173.79	173.50	173.51
	1200/26	1700/28	1400/14	0800/01	1800/09	0900/26	0900/27	1400/29	1500/15	0800/06	0300/18	1400/04

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

/ Indicates No Data.

ANNUAL MEAN: 174.19

ANNUAL SUMMARY OF LEVELS, 1978
Station 3079: Marblehead, Ohio on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST

Monthly mean elevation:	174.47	May
Daily mean elevation:	174.66	4 May
Instant/hourly elevation:	174.82	2003/4 May

LOWEST

Monthly mean elevation:	173.81	Dec
Daily mean elevation:	173.39	26 Jan
Instant/hourly elevation:	172.06	1052/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.33	17 Jan
174.14	5 Feb
174.56	25 Mar
174.55	26 Apr
174.66	4 May
174.47	3 Jun
174.47	3 Jul
174.32	10 Aug
174.33	13 Sep
174.17	16 Oct
174.11	20 Nov
173.99	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.39	26 Jan
174.07	28 Feb
174.03	14 Mar
174.21	1 Apr
174.36	9 May
174.35	26 Jun
174.24	29 Jul
174.13	28 Aug
174.02	30 Sep
173.78	6 Oct
173.63	18 Nov
173.51	21 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
174.60					1							
174.50			1	4	2							
174.40			1	19	25	21	4					
174.30	2		2	6	1	9	20	3	1			
174.20	3		5	1			7	22	1			
174.10	11	12	3					6	17	2	2	
174.00	8	16	19						11	14	6	
173.90	1									12	13	12
173.80	2									2	6	6
173.70	1									1	1	5
173.60	1										2	5
173.50												3
173.40	1											
173.30	1											

Elev. (m.)	No. of days above elev.
174.60	1
174.50	8
174.40	78
174.30	122
174.20	161
174.10	214
174.00	288
173.90	326
173.80	342
173.70	350
173.60	358
173.50	361
173.40	362
173.30	363

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3079: Marblehead, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.17	174.13	174.07	174.21	174.46	174.47	174.47	174.28	174.19	174.09	174.03	173.85
2	173.85	174.14	174.08	174.42	174.44	174.46	174.47	174.26	174.15	174.10	173.93	173.96
3	174.01*	174.14	174.07	174.46	174.44	174.47	174.47	174.28	174.13	174.03	173.97	173.99
4	174.05	174.14	174.05	174.35	174.66	174.44	174.42	174.32	174.19	173.97	173.97	173.60
5	174.16	174.14	174.06	174.36	174.49	174.44	174.40	174.29	174.12	173.99	173.96	173.67
6	174.22	174.12	174.07	174.45	174.44	174.44	174.40	174.29	174.10	173.78	174.00	173.91
7	174.20	174.11	174.07	174.36	174.49	174.44	174.39	174.32	174.12	174.01	174.03	173.98
8	174.16	174.13	174.07	174.41	174.46	174.46	174.34	174.20	174.15	174.02	173.93	173.98
9	173.72	174.12	174.05	174.48	174.36	174.43	174.37	174.22	174.20	174.01	173.85	173.84
10	173.66	174.11	174.05	174.47	174.43	174.46	174.38	174.32	174.15	174.00	173.96	173.75
11	173.87	174.10	174.06	174.37	174.45	174.42	174.37	174.27	174.08	174.02	173.98	173.85
12	174.10	174.10	174.05	174.38	174.43	174.39	174.38	174.29	174.22	173.99	174.11	173.79
13	174.25	174.13	174.06	174.36	174.50	174.44	174.31	174.27	174.33	174.08	173.99	173.55
14	174.26	174.10	174.03	174.41	174.49*	174.43	174.34	174.28	174.10	174.15	173.88	173.64
15	174.06	174.11	174.06	174.41	/	174.45	174.34	174.25	174.09	174.03	173.99	173.61
16	174.09	174.10	174.10	174.43	/	174.43	174.37	174.16*	174.09	174.17	174.07	173.80
17	174.33	174.09	174.10	174.44	174.48*	174.40	174.34	174.22*	174.17	174.08	173.88	173.63
18	174.16	174.09	174.09	174.53	174.49	174.39	174.32	174.25	174.17	173.95	173.63	173.86
19	174.19	174.09	174.08	174.49	174.46	174.42	174.31	174.19	174.20	173.91	173.91	173.97
20	174.31	174.09	174.17	174.45	174.47	174.44	174.32	174.26	174.15	174.05	174.11	173.94
21	174.14	174.08	174.11	174.45	174.52	174.40	174.31	174.25	174.14	173.98	174.08	173.51
22	174.10	174.07	174.17	174.48	174.51	174.41	174.29	174.22	174.17	173.98	173.98	173.71
23	174.14	174.08	174.23	174.51	174.49	174.41	174.27	174.22	174.17	174.08	173.87	173.87
24	174.15	174.07	174.44	174.48	174.48	174.42	174.35	174.16*	174.08	173.99	173.82	173.92
25	174.19	174.07	174.56	174.53	174.48*	174.39	174.29	174.22*	174.15	173.88	173.92	173.66
26	173.39	174.08	174.36	174.55	174.48	174.35	174.25	174.21	174.09	173.99	174.09	173.81
27	173.50	174.07	174.27	174.47	174.48	174.36*	174.26	174.25	174.02	173.86	174.06	173.76
28	173.96	174.07	174.24	174.46	174.49	174.40	174.32	174.13*	174.10	173.98	173.69	173.92
29	174.10		174.29	174.47	174.48	174.40	174.24	174.21*	174.09	174.06	173.84	173.97
30	174.09		174.30	174.49	174.45	174.42	174.36	174.18	174.02	174.02	173.77	173.91
31	174.12		174.34		174.45		174.30	174.22		174.00		173.91
MEAN	174.05	174.10	174.15	174.44	174.47	174.42	174.35	174.24	174.14	174.01	173.94	173.81
MAX.	174.51	174.17	174.67	174.66	174.82	174.61	174.57	174.49	174.46	174.38	174.26	174.19
	1712/17	0840/05	0715/25	0752/26	2003/04	1322/03	2050/01	0815/10	0655/13	0300/14	0200/27	0840/03
MIN.	172.06	174.04	173.84	174.09	174.21	173.93	174.11	174.01	173.92	173.44	172.82	173.18
	1052/26	1555/22	1437/14	0620/01	1930/09	1010/26	1400/29	0745/28	0312/16	1355/06	0345/18	1250/04

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

/ Indicates No Data.

ANNUAL MEAN: 174.18

ANNUAL SUMMARY OF LEVELS, 1978
Station 3085: Toledo, Ohio on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.50	May	Monthly mean elevation:	173.76	Dec
Daily mean elevation:	175.01	4 May	Daily mean elevation:	173.28	21 Dec
Instant/hourly elevation:	175.25	1700/4 May	Instant/hourly elevation:	172.30	0400/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.34	17 Jan
174.16	4 Feb
174.67	25 Mar
174.67	18 Apr
175.01	4 May
174.48	15 Jun
174.62	2 Jul
174.39	7 Aug
174.55	13 Sep
174.28	16 Oct
174.31	26 Nov
174.09	19 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.43	9 Jan
174.08	26 Feb
174.05	14 Mar
174.17	1 Apr
174.25	9 May
174.33	21 Jun
174.19	29 Jul
174.03	28 Aug
173.98	27 Sep
173.56	6 Oct
173.42	18 Nov
173.28	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.
175.00					1								175.00	1
174.90													174.90	1
174.80													174.80	1
174.70													174.70	1
174.60			1	2			1						174.60	5
174.50				10	10		2		1				174.50	28
174.40			2	10	19	19	3						174.40	81
174.30	2		4	6		11	16	4			1		174.30	125
174.20	3		5	1	1		7	17	6	1	1		174.20	167
174.10	13	18	4	1			2	7	13	5	4		174.10	234
174.00	5	10	15					2	9	10	6	5	174.00	296
173.90	2								1	11	7	7	173.90	324
173.80	1									2	6	4	173.80	337
173.70	1									1	1	3	173.70	343
173.60	1										2	3	173.60	349
173.50	1									1	1	2	173.50	354
173.40	2										1	4	173.40	361
173.30												1	173.30	362
173.20												2	173.20	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3085: Toledo, Ohio on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.19	174.15	174.07	174.17	174.47	174.46	174.59	174.27	174.21	174.09	174.06	173.83
2	173.77	174.15	174.09	174.54	174.42	174.44	174.62	174.25	174.15	174.14	173.93	174.01
3	173.97	174.15	174.07	174.56	174.48	174.47	174.52	174.26	174.10	174.03	174.00	174.09
4	174.07	174.16	174.06	174.35	175.01	174.43	174.42	174.32	174.20	173.92	174.00	173.36
5	174.19	174.14	174.07	174.40	174.53	174.43	174.42	174.30*	174.11	173.98	173.97	173.55
6	174.24	174.13	174.08	174.53	174.44	174.48	174.40	/	174.06	173.56	174.01	173.92
7	174.20	174.11	174.08	174.35	174.56	174.45	174.37	174.39*	174.09	173.92	174.06	174.06
8	174.12	174.14	174.07	174.46	174.49	174.46	174.30	174.14	174.14	173.97	173.93	173.97
9	173.43	174.13	174.07	174.60	174.25	174.42	174.37	174.18	174.25	174.03	173.82	173.68
10	173.45	174.12	174.06	174.51	174.42	174.46	174.37	174.35	174.16	174.01	173.98	173.61
11	173.87	174.11	174.07	174.31	174.46	174.39	174.39	174.28	174.06	174.03	174.02	173.85
12	174.10	174.11	174.06	174.32	174.45	174.33	174.40	174.32	174.30	173.98	174.21	173.77
13	174.25	174.14	174.08	174.29	174.53	174.42	174.29	174.29*	174.55	174.11	174.06	173.30
14	174.27	174.10	174.05	174.37	174.52	174.44	174.34	174.30*	174.09	174.20	173.79	173.45
15	174.07	174.13	174.09	174.43	174.58	174.48	174.32	174.25*	174.05	174.03	174.01	173.48
16	174.11	174.12	174.12	174.46	174.56	174.45	174.38	174.07	174.09	174.28	174.16	173.76
17	174.34	174.10	174.11	174.49	174.47	174.37	174.33	174.16	174.21	174.12	173.82	173.47
18	174.16	174.11	174.15	174.67	174.49	174.37	174.33	174.25	174.17	173.93	173.42	173.87
19	174.19	174.11	174.12	174.51	174.47	174.43	174.32	174.14	174.24	173.84	173.90	174.09
20	174.31	174.11	174.28	174.45	174.45	174.46	174.32	174.27	174.16	174.08	174.16	173.98
21	174.15	174.09	174.25	174.46	174.52	174.33	174.29	174.27	174.13	173.97	174.11	173.28
22	174.10	174.08	174.30	174.50	174.53	174.39	174.26	174.22	174.20	173.98	174.00	173.60
23	174.16	174.10	174.32	174.56	174.51	174.42	174.23	174.22*	174.24	174.07	173.83	173.87
24	174.16	174.09	174.50	174.50	174.48	174.46	174.38	174.17*	174.07	173.99	173.65	173.95
25	174.19	174.08	174.67	174.60	174.48	174.40	174.28	174.27	174.18	173.85	173.90	173.46
26	173.68	174.08	174.41	174.61	174.49	174.34	174.22	174.24	174.11	173.96	174.31	173.73
27	173.57	174.09	174.30	174.47	174.49	174.34	174.19	174.30	173.98	173.80	174.16	173.66
28	173.98	174.09	174.28	174.46	174.51	174.39	174.33	174.03	174.13	173.99	173.51	173.95
29	174.12		174.33	174.51	174.50	174.39	174.19	174.13	174.16	174.12	173.82	174.05
30	174.10		174.34	174.53	174.49*	174.43	174.42	174.18	174.02	174.05	173.66	173.95
31	174.14		174.38		174.42		174.32	174.25*		174.02		173.95
MEAN	174.05	174.12	174.19	174.47	174.50	174.42	174.35	174.24	174.15	174.00	173.94	173.76
MAX.	174.55	174.20	174.84	174.95	175.25	174.75	174.86	174.57	174.88	174.68	174.55	174.37
	0600/26	0600/05	0800/25	0900/18	1700/04	2000/26	1900/01	0900/10	0500/13	1200/16	1300/26	0800/03
MIN.	172.80	174.03	173.79	173.99	173.95	174.04	173.90	173.88	173.74	173.16	172.30	172.78
	1800/26	1700/26	1800/14	1700/11	1500/09	1300/26	1300/29	1400/16	0500/16	1300/06	0400/18	0500/21

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

ANNUAL MEAN: 174.18

ANNUAL SUMMARY OF LEVELS, 1978
Station 3087: Monroe, Michigan on Lake Erie

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST

Monthly mean elevation:	174.50	May
Daily mean elevation:	174.86	4 May
Instant/hourly elevation:	175.00	1600/4 May

LOWEST

Monthly mean elevation:	173.79	Dec
Daily mean elevation:	173.33	4 Dec
Instant/hourly elevation:	172.51	0200/18 Nov

HIGHEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
174.13	13 Jan
174.56	25 Feb
174.64	18 Mar
174.86	4 Apr
174.49	15 May
174.58	2 Jun
174.34	10 Jul
174.49	13 Aug
174.14	2 Sep
174.21	26 Oct
174.03	29 Nov
	29 Dec

LOWEST DAILY MEAN
FOR EACH MONTH

Elev.	Date
174.06	7 Jan
174.05	14 Feb
174.21	1 Mar
174.32	9 Apr
174.33	21 May
174.23	29 Jun
174.12	16 Jul
174.00	27 Aug
174.09	1 Sep
173.52	18 Oct
173.33	4 Nov
	4 Dec

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

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
174.80					1							
174.70												
174.60				1								
174.50			1	6	10		2					
174.40			1	15	19	21	5		1			
174.30			3	7	1	9	18	5				
174.20			5	1			6	14	6		1	
174.10		4	3					5	11	1	4	
174.00		19	18						9	1	5	1
173.90									1		10	6
173.80											6	3
173.70												1
173.60											2	2
173.50											2	1
173.40												
173.30												2

Elev. (m.)	No. of days above elev.
174.80	1
174.70	1
174.60	2
174.50	21
174.40	83
174.30	126
174.20	159
174.10	187
174.00	240
173.90	257
173.80	266
173.70	267
173.60	271
173.50	274
173.40	274
173.30	276
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 3087: Monroe, Michigan on Lake Erie

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	174.06	174.21	174.44	174.48	174.58	174.28	/	174.09	174.03*	173.86
2	/	/	174.08	174.47	174.42	174.44	174.58	174.25	/	174.14*	173.94	173.92*
3	/	/	174.06	174.53	174.47	174.47	174.49	174.26	174.21*	/	174.01	173.98*
4	/	/	174.05	174.35	174.86	174.45	174.42	174.33	174.18	/	174.00	173.33*
5	/	/	174.07	174.38	174.52	174.42	174.42	174.30	174.10	/	173.99	/
6	/	174.08*	174.07	174.52	174.43	174.48	174.42	174.31	174.07	/	173.98	/
7	/	174.06	174.07	174.35	174.54	174.45	174.39	174.34	174.09	/	174.03	/
8	/	174.07	174.06	174.43	174.49	174.46	174.31	174.18	174.13	/	173.95	/
9	/	174.07	174.06	174.54	174.32	174.44	174.38	174.21	174.22	/	173.85	/
10	/	174.08	174.05	174.50	174.42	174.48	174.35	174.34	174.17	/	173.99	/
11	/	174.10	174.07	174.35	174.48	174.44	174.38	174.28	174.08	/	174.00	/
12	/	174.11	174.06	174.38	174.49	174.36	174.41	174.31	174.25	/	174.11	/
13	/	174.13	174.07	174.32	174.57	174.40	174.32	174.28	174.49	/	174.07	/
14	/	174.10	174.05	174.39	174.49	174.43	174.33	174.29	174.13	/	173.81	/
15	/	174.12	174.08	174.42	174.55	174.49	174.35	174.28	174.09	/	174.00	/
16	/	174.11	174.10	174.45	174.53	174.47	174.37	174.12	174.09	/	174.11	/
17	/	174.10	174.10	174.47	174.47	174.42	174.34	174.16	174.21	/	173.91	/
18	/	174.10	174.12	174.64	174.51	174.39	174.34	174.26	174.18	/	173.52	/
19	/	174.10	174.10	174.50	174.47	174.43	174.33	174.13	174.24	/	173.90	/
20	/	174.10	174.19	174.44	174.46	174.47	174.33	174.27	174.17	/	174.12	173.88*
21	/	174.09	174.15	174.44	174.48	174.33	174.32	174.27	174.14	/	174.07	173.38
22	/	174.07	174.22	174.49	174.54	174.39	174.29	174.23	174.17	/	173.99	173.69
23	/	174.09	174.25	174.55	174.51	174.42	174.25	174.22	174.21	/	173.85	173.89
24	/	174.09	174.42	174.48	174.48	174.45	174.37	174.17*	174.07	/	173.67	173.94
25	/	174.07	174.56	174.56	174.49	174.44	174.29	/	174.16	/	173.89	173.52
26	/	174.07	174.37	174.55	174.49	174.38	174.25	/	174.13	/	174.21	173.75
27	/	174.08	174.28	174.45*	174.49	174.38	174.23	/	174.00	/	174.11	173.69
28	/	174.08	174.26	174.45	174.52	174.35*	174.33	/	174.09	/	173.58	173.93
29	/		174.30	174.48	174.52	174.38*	174.23	/	174.17	/	173.85	174.03
30	/		174.33	174.50	174.49	174.43	174.39	/	174.03	/	173.69	173.93
31	/		174.38		174.45		174.32	/		/		173.95
MEAN	/	174.09	174.16	174.45	174.50	174.43	174.36	174.25	174.15	174.12	173.94	173.79
MAX.		174.15	174.68	174.90	175.00	174.76	174.78	174.53	174.71	174.27	174.42	174.16
		1600/13	0700/25	0900/18	1600/04	2000/26	1800/01	0900/10	0500/13	0800/02	2400/26	2400/03
MIN.		174.01	173.82	174.11	174.07	174.03	173.96	173.93	173.80	173.89	172.51	172.92
		1600/07	1700/14	0200/07	1800/09	1200/26	1300/29	2000/19	0500/16	0100/01	0200/18	0500/21

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

ANNUAL MEAN: 174.20

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.48	May	Monthly mean elevation:	173.79	Dec
Daily mean elevation:	174.77	4 May	Daily mean elevation:	173.40	21 Dec
Instant/hourly elevation:	174.90	1700/4 May	Instant/hourly elevation:	172.57	0300/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.31	17 Jan
174.14	4 Feb
174.53	25 Mar
174.60	18 Apr
174.77	4 May
174.48	15 Jun
174.54	2 Jul
174.33	7 Aug
174.45	13 Sep
174.19	16 Oct
174.17	26 Nov
174.07	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.51	9 Jan
174.07	28 Feb
174.04	14 Mar
174.21	1 Apr
174.32	9 May
174.33	21 Jun
174.21	27 Jul
174.08	28 Aug
174.00	27 Sep
173.65	6 Oct
173.55	18 Nov
173.40	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.
174.75					1								174.75	1
174.70													174.70	1
174.65													174.65	1
174.60													174.60	1
174.55				1									174.55	2
174.50			1	4	3		2						174.50	12
174.45				8	21	4	1						174.45	46
174.40				8	5	14	1		1				174.40	75
174.35			2	4		9	6						174.35	96
174.30	1		2	4	1	3	12	3					174.30	122
174.25	1		2				5	10					174.25	140
174.20	3		2	1			4	9	3				174.20	162
174.15	6		2					5	5	1	1		174.15	182
174.10	6	11	2					3	11	2			174.10	217
174.05	7	17	9					1	8	7	4	1	174.05	271
174.00			9						1	6	4	2	174.00	293
173.95	1								1	9	9	3	173.95	316
173.90	1									3	2	6	173.90	328
173.85										2	5	3	173.85	338
173.80	1										1	2	173.80	342
173.75												1	173.75	343
173.70												1	173.70	344
173.65											2	4	173.65	350
173.60										1		2	173.60	353
173.55											1	1	173.55	355
173.50	2										1	3	173.50	361
173.45													173.45	361
173.40												1	173.40	362
173.35												1	173.35	363
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	174.16	174.14	174.05	174.21	174.43	174.46	174.53	174.27	174.20	174.07	174.03	173.85
2	173.84	174.14	174.07	174.42	174.41	174.42	174.54	174.26	174.15	174.13	173.95	173.96
3	173.98	174.14	174.05	174.50	174.46	174.45	174.46	174.24	174.09	174.07	174.00	174.07
4	174.06	174.14	174.04	174.34	174.77	174.44	174.40	174.31	174.18	173.96	174.00	173.53
5	174.16	174.13	174.06	174.37	174.49	174.41	174.41	174.28	174.11	174.01	174.00	173.64
6	174.21	174.11	174.06	174.49	174.42	174.46	174.40	174.28	174.08	173.65	173.97	173.91
7	174.19	174.10	174.06	174.34	174.52	174.44	174.39	174.33	174.10	173.92	174.02	174.00
8	174.10	174.12	174.05	174.41	174.47*	174.44	174.30	174.18	174.14	173.96	173.96	173.92
9	173.51	174.11	174.05	174.51	174.32*	174.41	174.36	174.20	174.21	174.03	173.87	173.70
10	173.55	174.11	174.04	174.49	174.42	174.47	174.34	174.31	174.15	174.02	173.98	173.68
11	173.92	174.10	174.05	174.35	174.47	174.43	174.36	174.27	174.08	174.06	173.97	173.88
12	174.10	174.10	174.04	174.38	174.48	174.35	174.39	174.29	174.23	173.98	174.09	173.82
13	174.23	174.12	174.06	174.32	174.54	174.38	174.31	174.26	174.45	174.07	174.05	173.41
14	174.24	174.09	174.04	174.38	174.49	174.41	174.33	174.28	174.11	174.12	173.82	173.60
15	174.07	174.11	174.07	174.40	174.52	174.48	174.32	174.27	174.08	174.05	173.98	173.62
16	174.10	174.10	174.09	174.44	174.50	174.45	174.35	174.15	174.08	174.19	174.09	173.80
17	174.31	174.09	174.08	174.45	174.46	174.40	174.32	174.16	174.20	174.10	173.93	173.53
18	174.14	174.10	174.11	174.60	174.48	174.39	174.33	174.25	174.17	173.95	173.55	173.87
19	174.17	174.09	174.08	174.49	174.46	174.42	174.32	174.15	174.21	173.87	173.89	174.01
20	174.28	174.09	174.17	174.43	174.46	174.45	174.31	174.24	174.15	174.07	174.10	173.97
21	174.14	174.08	174.13	174.42	174.49	174.33	174.29	174.25	174.11	174.00	174.05	173.40
22	174.09	174.07	174.19	174.48	174.50	174.38	174.29	174.21	174.14	174.00	173.98	173.70
23	174.15	174.08	174.22	174.53	174.49	174.40	174.23	174.21	174.20	174.01	173.87	173.88
24	174.15	174.08	174.38	174.48	174.46	174.43	174.35	174.16	174.07	174.00	173.69	173.94
25	174.17	174.07	174.53	174.53	174.47	174.42	174.29	174.24	174.13	173.91	173.89	173.53
26	174.18	174.07	174.35	174.52	174.48	174.36	174.24	174.22	174.12	173.96	174.17	173.75
27	174.11*	174.07	174.26	174.45	174.47	174.34*	174.21	174.28	174.00	173.86	174.08	173.70
28	/	174.07	174.25	174.44	174.49	174.39	174.31	174.08	174.10	173.97	173.60	173.93
29	/		174.28	174.46	174.49	174.37	174.22	174.12	174.15	174.08	173.87	174.03
30	174.10*		174.31	174.48	174.47	174.40	174.35	174.16	174.03	174.04	173.69	173.93
31	174.13		174.36		174.43		174.29	174.21		174.00		173.93
MEAN	174.09	174.10	174.15	174.44	174.48	174.41	174.34	174.23	174.14	174.00	173.94	173.79
MAX.	174.57	174.18	174.65	174.79	174.90	174.64	174.70	174.49	174.65	174.42	174.38	174.34
	0600/26	0500/04	0800/25	1000/18	1700/04	1800/26	1800/01	0900/10	0500/13	0100/14	2400/26	0800/03
MIN.	173.03	174.03	173.83	174.12	174.12	174.00	174.01	173.93	173.80	173.28	172.57	172.98
	2400/09	1700/26	1700/14	0300/07	1800/09	1000/26	1300/29	0800/28	0500/16	1200/06	0300/18	0600/21

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

/ Indicates No Data.

ANNUAL MEAN: 174.18

ANNUAL SUMMARY OF LEVELS, 1978
Station 4020: Gibraltar, Michigan on Detroit River

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.52	May	Monthly mean elevation:	173.87	Dec
Daily mean elevation:	174.74	4 May	Daily mean elevation:	173.54	21 Dec
Instant/hourly elevation:	174.91	1700/4 May	Instant/hourly elevation:	172.95	0400/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.35	17 Jan
174.26	4 Feb
174.56	25 Mar
174.62	18 Apr
174.74	4 May
174.54	15 Jun
174.58	2 Jul
174.38	7 Aug
174.50	13 Sep
174.25	16 Oct
174.19	26 Nov
174.13	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
173.62	9 Jan
174.14	26 Feb
174.11	14 Mar
174.24	1 Apr
174.39	9 May
174.39	21 Jun
174.28	27 Jul
174.17	17 Aug
174.08	27 Sep
173.78	6 Oct
173.70	18 Nov
173.54	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.
174.70					1								174.70	1
174.65													174.65	1
174.60				1									174.60	2
174.55			1	1	1		2						174.55	7
174.50				9	18	5							174.50	39
174.45				6	9	15	5		1				174.45	75
174.40				7	1	9	5						174.40	97
174.35			3	4	1	1	15	5					174.35	126
174.30	4		2	1			1	10					174.30	144
174.25	4	1	3				3	8	6				174.25	169
174.20	8	15	2	1				4	8	1			174.20	208
174.15	6	8	2					3	12	4	1		174.15	244
174.10	2	4	18						2	9	5	1	174.10	285
174.05	1								1	8	7	2	174.05	304
174.00	2									5	7	4	174.00	322
173.95	1									3	4	5	173.95	335
173.90											1	5	173.90	341
173.85											1	1	173.85	343
173.80	1											2	173.80	346
173.75										1	2	4	173.75	353
173.70											1	2	173.70	356
173.65											1	1	173.65	358
173.60	2											2	173.60	362
173.55													173.55	362
173.50												2	173.50	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4020: Gibraltar, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.28	174.25	174.13	174.24	174.46	174.51	174.57	174.34	174.27	174.14	174.10	173.94
2	173.96	174.25	174.15	174.45	174.45	174.47	174.58	174.33	174.24	174.20	174.02	174.01
3	174.10	174.25	174.14	174.53	174.49	174.49	174.50	174.30	174.16	174.17	174.06	174.13
4	174.22	174.26	174.13	174.37	174.74	174.49	174.46	174.38	174.25	174.06	174.07	173.69
5	174.35	174.24	174.14	174.40	174.51	174.46	174.46	174.35*	174.19	174.15	174.07	173.77
6	174.35	174.21	174.14	174.53	174.46	174.52	174.46	/	174.16	173.78	174.02	173.97
7	174.30	174.19	174.14	174.38	174.55	174.50	174.45	174.38	174.18	174.00	174.07	174.06
8	174.17	174.21	174.13	174.44	174.54	174.48	174.36	174.26	174.21	174.04	174.05	173.97
9	173.62	174.22	174.12	174.53	174.39	174.46	174.43	174.28	174.28	174.12	173.97	173.79
10	173.64	174.21	174.12	174.52	174.46	174.52	174.39	174.37	174.24	174.10	174.05	173.78
11	174.01	174.20	174.12	174.40	174.51	174.49	174.41	174.34	174.16	174.15	174.03	173.96
12	174.19	174.21	174.11	174.43	174.54	174.41	174.46	174.36	174.28	174.07	174.12	173.92
13	174.29	174.22	174.13	174.35	174.59	174.42	174.39	174.33	174.50	174.14	174.11	173.55
14	174.28	174.21	174.11	174.41	174.53	174.47	174.39	174.34	174.23	174.18	173.89	173.73
15	174.12	174.25	174.13	174.43	174.55	174.54	174.39	174.34	174.16	174.13	174.04	173.75
16	174.17	174.23	174.15	174.48	174.53	174.51	174.40	174.25	174.16	174.25	174.13	173.88
17	174.35	174.22	174.14	174.49	174.49	174.47	174.38	174.17*	174.28	174.17	174.08	173.63
18	174.20	174.22	174.18	174.62	174.53	174.45	174.40	174.34*	174.24	174.05	173.70	173.92
19	174.21	174.20	174.14	174.53	174.50	174.47	174.39	174.22	174.28	173.96	173.96	174.05
20	174.32	174.19	174.23	174.45	174.50	174.50	174.38	174.31	174.23	174.15	174.13	174.04
21	174.19	174.17	174.17	174.45	174.52	174.39	174.36	174.31*	174.18	174.08	174.09	173.54
22	174.16	174.15	174.24	174.51	174.55	174.42	174.36	174.30*	174.19	174.08	174.03	173.81
23	174.21	174.16	174.26	174.56	174.53	174.45	174.30	174.29	174.27	174.07	173.96	173.95
24	174.21	174.17	174.40	174.50	174.50	174.48	174.41	174.24	174.14	174.09	173.77	174.00
25	174.22	174.15	174.56	174.54	174.52*	174.48	174.36	174.30	174.19	174.03	173.95	173.63
26	174.01	174.14	174.38	174.53	174.52	174.46	174.32	174.29	174.20	174.04	174.19	173.83
27	173.85	174.16	174.29	174.49	174.51	174.41	174.28	174.36	174.08	173.97	174.13	173.77
28	174.13	174.15	174.30	174.49	174.54	174.44	174.37	174.18	174.17	174.04	173.72	173.95*
29	174.23		174.32	174.50	174.54	174.43	174.30	174.19	174.23	174.14	173.99	174.07*
30	174.22		174.35	174.51	174.52	174.45	174.41	174.23	174.13	174.12	173.79	174.01
31	174.23		174.40		174.48		174.36	174.28		174.07		173.99
MEAN	174.15	174.20	174.21	174.47	174.52	174.47	174.40	174.30	174.22	174.09	174.01	173.87
MAX.	174.69	174.30	174.67	174.83	174.91	174.78	174.75	174.55	174.67	174.42	174.44	174.42
	0800/26	0300/15	0700/25	1000/18	1700/04	1300/27	1900/01	1000/10	0500/13	1300/16	1200/17	0800/03
MIN.	173.23	174.10	173.91	174.15	174.17	174.14	174.11	174.03	173.91	173.42	172.95	173.18
	2300/09	1700/26	1700/14	1700/01	1800/09	1300/26	1200/29	1600/23	0500/16	1300/06	0400/18	0700/21

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

/ Indicates No Data.

ANNUAL MEAN: 174.24

ANNUAL SUMMARY OF LEVELS, 1978
Station 4030: Wyandotte, Michigan on Detroit River

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	174.82	May
Daily mean elevation:	174.96	4 May
Instant/hourly elevation:	175.04	1700/4 May

LOWEST		
Monthly mean elevation:	174.33	Dec
Daily mean elevation:	174.14	21 Dec
Instant/hourly elevation:	173.93	0300/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.84	6 Jan
174.75	13 Feb
174.87	25 Mar
174.89	18 Apr
174.96	4 May
174.83	15 Jun
174.88	2 Jul
174.73	10 Aug
174.80	13 Sep
174.65	16 Oct
174.56	27 Nov
174.50	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.37	10 Jan
174.62	22 Feb
174.53	19 Mar
174.60	1 Apr
174.71	9 May
174.75	21 Jun
174.67	27 Jul
174.58	28 Aug
174.54	27 Sep
174.33	6 Oct
174.25	28 Nov
174.14	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.
174.95					1								174.95	1
174.90													174.90	1
174.85			1	1	2		2						174.85	7
174.80	3			12	21	10	1						174.80	54
174.75	1			12	6	19	8		1				174.75	101
174.70	3	9	3	4	1	1	15	8					174.70	145
174.65	6	10	8				5	15	2				174.65	191
174.60	6	9	8					6	13	1			174.60	234
174.55	7		6	1				2	13	6	1		174.55	270
174.50	3		5						1	10	5		174.50	294
174.45										11	12	2	174.45	319
174.40	1									2	4	5	174.40	331
174.35	1										4	8	174.35	344
174.30										1		4	174.30	349
174.25											2	3	174.25	354
174.20											2	5	174.20	361
174.15												3	174.15	364
174.10												1	174.10	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4030: Wyandotte, Michigan on Detroit River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.84	174.70	174.66	174.60	174.77	174.82	174.86	174.70	174.65	174.56	174.51	174.37
2	174.62	174.70	174.66	174.76	174.77	174.80	174.88	174.69	174.62	174.59	174.46	174.42
3	174.59	174.71	174.66	174.79	174.79	174.81	174.83	174.69	174.59	174.58*	174.49	174.50
4	174.67	174.71	174.61	174.71	174.96	174.81	174.79	174.72	174.64	174.50	174.48	174.22
5	174.84	174.68*	174.60	174.76	174.83	174.78	174.79	174.71	174.60	174.55	174.48	174.27
6	174.84	174.69	174.62	174.83	174.78	174.81	174.78	174.71	174.58	174.33	174.46	174.40
7	174.77	174.71	174.64	174.75	174.82	174.81	174.78	174.73	174.59	174.46	174.50	174.46
8	174.72	174.69	174.65	174.81	174.81	174.81	174.72	174.65	174.60	174.49	174.46	174.42
9	174.42	174.71	174.63	174.85	174.71	174.78	174.76	174.66	174.65	174.53	174.40	174.32
10	174.37	174.73	174.63	174.84	174.77	174.82	174.75	174.73	174.62	174.52	174.46	174.28
11	174.53	174.70	174.62	174.74	174.79	174.79	174.76	174.71	174.57	174.55	174.45	174.39
12	174.62	174.72	174.60	174.76	174.81	174.76	174.78	174.71	174.66	174.50	174.52	174.35
13	174.69	174.75	174.57	174.71	174.86	174.77	174.73	174.70	174.80	174.56	174.49	174.16
14	174.67	174.71	174.53	174.76	174.83	174.80	174.75	174.70	174.62	174.60	174.36	174.21
15	174.56	174.71	174.54	174.78	174.86	174.83	174.74	174.69	174.56	174.55	174.46	174.21
16	174.59	174.69	174.55	174.81	174.85	174.81	174.75	174.62	174.59	174.65	174.52	174.32
17	174.68	174.67	174.55	174.81	174.82	174.79	174.74	174.63	174.65	174.58	174.45	174.19
18	174.60	174.67	174.56	174.89	174.84	174.77	174.72*	174.69	174.64	174.50	174.25	174.36
19	174.62	174.65	174.53	174.82	174.82	174.80	174.69	174.62	174.65	174.46	174.41	174.44
20	174.66	174.64	174.60	174.78	174.81	174.81	174.72	174.68	174.63	174.54	174.51	174.43
21	174.54	174.63	174.58	174.78	174.85	174.75	174.72	174.68	174.60	174.50	174.50	174.14
22	174.54	174.62	174.64	174.82	174.85	174.77	174.71	174.67	174.62	174.50	174.46	174.25
23	174.57	174.64	174.67	174.83	174.83	174.79	174.68	174.66	174.66	174.52	174.42	174.35
24	174.58	174.65	174.75	174.80	174.83	174.80	174.75	174.63	174.59	174.51	174.29	174.40
25	174.62	174.65	174.87	174.83	174.83	174.80	174.72	174.67	174.61	174.45	174.39	174.18
26	174.65	174.65	174.74	174.83	174.82	174.79	174.69	174.67	174.60	174.49	174.55	174.30
27	174.56	174.65	174.68	174.79	174.83	174.76	174.67	174.71	174.54	174.43	174.56	174.25
28	174.62	174.66	174.67	174.79	174.84	174.79	174.73	174.58	174.59	174.49	174.25	174.38
29	174.69		174.67	174.80	174.84	174.78	174.68	174.60	174.62	174.54	174.38	174.45
30	174.74		174.67	174.81	174.83	174.79	174.76	174.63	174.56	174.52	174.28	174.39
31	174.72		174.71		174.81		174.72	174.66		174.50		174.40
MEAN	174.64	174.68	174.63	174.79	174.82	174.79	174.75	174.67	174.62	174.52	174.44	174.33
MAX.	174.92	174.78	174.92	175.01	175.04	174.92	174.95	174.81	174.91	174.74	174.69	174.64
	0800/26	2300/09	0800/25	1100/18	1700/04	2100/26	2000/01	1100/10	0600/13	0200/14	0700/27	0800/03
MIN.	174.22	174.60	174.44	174.52	174.60	174.60	174.57	174.51	174.47	174.20	173.93	173.98
	2300/09	1500/22	1800/14	1300/01	1900/09	1100/18	1400/29	0900/28	0600/16	1600/06	0300/18	0600/21

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

ANNUAL MEAN: 174.64

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	174.93	May	Monthly mean elevation:	174.47	Dec
Daily mean elevation:	175.06	6 Jan	Daily mean elevation:	174.31	21 Dec
Instant/hourly elevation:	175.10	1100/18 Apr	Instant/hourly elevation:	174.17	2300/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.06	6 Jan
174.95	8 Feb
174.96	25 Mar
174.99	18 Apr
175.03	4 May
174.94	15 Jun
174.98	2 Jul
174.85	10 Aug
174.90	13 Sep
174.78	16 Oct
174.68	27 Nov
174.62	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.62	10 Jan
174.80	28 Feb
174.66	14 Mar
174.72	1 Apr
174.82	9 May
174.88	27 Jun
174.80	27 Jul
174.71	28 Aug
174.69	27 Sep
174.50	6 Oct
174.42	28 Nov
174.31	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.
175.05	1												175.05	1
175.00	1				1								175.00	3
174.95	5		1	3	4		2						174.95	18
174.90	5	11		12	18	18	3						174.90	85
174.85	10	3	2	12	7	12	12		1				174.85	144
174.80	5	8	2	2	1		11	14					174.80	187
174.75	1	6	14				1	13	8	1			174.75	231
174.70	1		5	1				4	17	4			174.70	263
174.65	1		7						4	11	2		174.65	288
174.60	1									12	10	1	174.60	312
174.55										2	9	4	174.55	327
174.50											5	9	174.50	341
174.45										1	1	5	174.45	348
174.40											3	4	174.40	355
174.35												5	174.35	360
174.30												3	174.30	363

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	174.96	174.91	174.79	174.72	174.88	174.93	174.96	174.83	174.77	174.70	174.65	174.51
2	174.85	174.91	174.78	174.86	174.88	174.91	174.98	174.82	174.74	174.72	174.60	174.56
3	174.93	174.91	174.78	174.88	174.90*	174.92	174.94	174.82	174.73	174.71	174.63	174.62
4	174.98	174.91	174.76	174.83	175.03	174.92	174.91	174.84	174.76	174.65	174.62	174.38
5	175.03	174.92	174.77	174.88	174.94	174.90	174.91	174.83	174.73	174.69	174.61	174.42
6	175.06	174.91	174.79	174.96	174.89	174.92	174.89	174.83	174.71	174.50	174.60	174.53
7	175.00	174.94	174.79	174.88	174.91	174.92	174.89	174.85	174.72	174.61	174.64	174.59
8	174.90	174.95	174.78	174.93	174.92	174.92	174.84	174.78	174.74	174.64	174.59	174.55
9	174.66	174.92	174.76	174.96	174.82	174.90	174.88	174.79	174.77	174.67	174.55	174.47
10	174.62	174.92	174.75	174.95	174.87	174.92	174.87	174.85	174.75	174.67	174.60	174.44
11	174.74	174.91	174.74	174.86	174.89	174.90	174.89	174.83	174.70	174.68	174.59	174.53
12	174.80	174.90	174.72	174.88	174.90	174.88	174.88	174.84	174.78	174.64	174.64	174.49
13	174.85	174.90	174.70	174.84	174.95	174.89	174.86	174.82	174.90	174.70	174.62	174.33
14	174.88	174.86	174.66	174.89	174.94	174.92	174.86	174.82	174.74	174.73	174.51	174.37
15	174.82	174.85	174.67	174.90	174.96	174.94	174.86	174.81	174.69	174.70	174.60	174.37
16	174.83	174.84	174.68	174.92	174.96	174.92	174.87	174.74	174.73	174.78	174.64	174.46
17	174.90	174.82	174.67	174.92	174.94	174.90	174.86	174.76	174.78	174.71	174.57	174.36
18	174.86	174.83	174.69	174.99	174.95	174.89	174.85	174.80	174.77	174.65	174.42	174.49
19	174.90	174.82	174.67	174.92	174.93	174.91	174.84	174.75	174.78	174.61	174.55	174.56
20	174.97	174.81	174.72	174.89	174.92	174.92	174.84	174.80	174.75	174.67	174.63	174.54
21	174.96	174.80	174.72	174.90	174.96	174.88	174.84	174.80	174.74	174.64	174.63	174.31
22	174.94	174.81	174.77	174.92	174.96	174.89	174.83	174.79	174.75	174.64	174.59	174.40
23	174.92	174.80	174.80	174.94	174.95	174.91	174.81	174.78	174.79	174.66	174.56	174.48
24	174.91	174.81	174.86	174.91	174.94	174.92	174.86	174.76	174.73	174.65	174.46	174.53
25	174.91	174.80	174.96	174.94	174.94	174.90	174.84	174.80	174.75	174.60	174.54	174.35
26	174.88	174.80	174.86	174.93	174.93	174.91	174.82	174.79	174.74	174.64	174.68	174.44
27	174.83	174.80	174.81	174.90	174.93	174.88	174.80	174.82	174.69	174.59	174.68	174.41
28	174.88	174.80	174.80	174.89	174.94	174.91	174.84*	174.71	174.73	174.64	174.42	174.51
29	174.90		174.79	174.91	174.94	174.90	/	174.73	174.74	174.67	174.52	174.56
30	174.90		174.79	174.91	174.94	174.91	/	174.76	174.70	174.66	174.44	174.52
31	174.90		174.81		174.92		174.84*	174.78		174.64		174.53
MEAN	174.89	174.86	174.76	174.90	174.93	174.91	174.87	174.80	174.75	174.66	174.58	174.47
MAX.	175.08	174.97	175.01	175.10	175.09	175.02	175.03	174.91	174.99	174.85	174.81	174.74
	0800/06	1100/08	1300/25	1100/18	2200/04	2200/26	2100/01	1100/10	0600/13	0200/14	0400/27	0900/03
MIN.	174.34	174.57	174.59	174.58	174.71	174.76	174.72	174.66	174.64	174.40	174.17	174.20
	0400/10	0200/23	1800/14	1500/11	2000/09	0900/26	0800/23	0800/28	0400/15	1100/06	2300/17	0600/21

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

/ Indicates No Data.

ANNUAL MEAN: 174.78

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	175.14	May	174.75	Dec
Daily mean elevation:	175.22	6 Jan	174.64	21 Dec
Instant/hourly elevation:	175.28	1400/6 Apr	174.46	2300/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.22	6 Jan
175.12	8 Feb
175.18	25 Mar
175.19	9 Apr
175.19	21 May
175.15	30 Jun
175.18	2 Jul
175.08	10 Aug
175.09	13 Sep
175.03	16 Oct
174.92	27 Nov
174.86	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
174.99	16 Jan
175.01	28 Feb
174.90	14 Mar
174.98	1 Apr
175.04	9 May
175.11	12 Jun
175.06	23 Jul
174.97	28 Aug
174.94	15 Sep
174.82	6 Oct
174.73	28 Nov
174.64	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.
175.20	1												175.20	1
175.15	4		1	5	12		3						175.15	26
175.10	2	2	3	20	15	30	10						175.10	108
175.05	13	13	2	4	3		18	12	1				175.05	174
175.00	8	13	6		1			15	10	1			175.00	228
174.95	3		11	1				4	18	7			174.95	272
174.90			7						1	19	5		174.90	304
174.85			1							3	13	1	174.85	322
174.80										1	6	4	174.80	333
174.75											2	12	174.75	347
174.70											4	5	174.70	356
174.65												8	174.65	364
174.60												1	174.60	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	175.17	175.09	175.01	174.98	175.11	175.14	175.17	175.07	175.01	174.97	174.91	174.78
2	175.10	175.09	175.00	175.09	175.11	175.13	175.18	175.06	174.99	174.98	174.89	174.82
3	175.14	175.09	175.00	175.10	175.11	175.14	175.17	175.07	175.00	174.96	174.90	174.86
4	175.17	175.09	174.98	175.10	175.19	175.13	175.14	175.07	175.00	174.93	174.89	174.67
5	175.19	175.09	174.99	175.13	175.15	175.13	175.14	175.07	174.99	174.93	174.87	174.71
6	175.22	175.09	175.01	175.19	175.11	175.13	175.12	175.07	174.98	174.82	174.88	174.79
7	175.20	175.10	175.00	175.15	175.12	175.14	175.12	175.08	174.98	174.90	174.91	174.84
8	175.14	175.12	175.00	175.19	175.11	175.14	175.09	175.03	174.98	174.92	174.85	174.83
9	175.04	175.11	174.99	175.19	175.04	175.14	175.11	175.04	175.00	174.93	174.83	174.78
10	175.00	175.10	174.98	175.17	175.10	175.13	175.12	175.08	174.99	174.94	174.86	174.74
11	175.03	175.10	174.96	175.11	175.09	175.11	175.12	175.07	174.96	174.93	174.87	174.78
12	175.01	175.10	174.95	175.12	175.09	175.11	175.11	175.07	175.02	174.92	174.91	174.76
13	175.01	175.10	174.93	175.10	175.14	175.14	175.09	175.06	175.09	174.97	174.87	174.67
14	175.03	175.08	174.90	175.14	175.15	175.14	175.10	175.06	174.97	174.99	174.81	174.66
15	175.00	175.06	174.92	175.15	175.18	175.15	175.10	175.04	174.94	174.97	174.86	174.66
16	174.99	175.04	174.93	175.15	175.19	175.14	175.11	174.99	174.99	175.03	174.89	174.73
17	175.02	175.03	174.94	175.15	175.17	175.12	175.10	175.03	175.01	174.97	174.79	174.68
18	175.03	175.03	174.93	175.18	175.17	175.12	175.08	175.04	175.02	174.92	174.74	174.76
19	175.03	175.03	174.93	175.14	175.16	175.14	175.07	175.01	175.02	174.91	174.81	174.81
20	175.08	175.02	174.96	175.13	175.15	175.14	175.08	175.05	175.01	174.93	174.89	174.78
21	175.09	175.02	174.98	175.14	175.19	175.13	175.08	175.04	175.01	174.91	174.89	174.64
22	175.09	175.02	175.04	175.14	175.17	175.12	175.07	175.03	175.02	174.91	174.86	174.67
23	175.08	175.02	175.08	175.15	175.17	175.14	175.06	175.02	175.03	174.95	174.84	174.74
24	175.06	175.02	175.14	175.14	175.16	175.13	175.09	175.02	175.00	174.91	174.76	174.77
25	175.06	175.01	175.18	175.15	175.16	175.13	175.08	175.04	175.02	174.86	174.82	174.67
26	175.09	175.01	175.13	175.15	175.16	175.12	175.07*	175.03	174.99	174.92	174.92	174.72
27	175.07	175.01	175.11	175.13	175.15	175.13	175.08*	175.04	174.97	174.87	174.92	174.70
28	175.07	175.01	175.07	175.12	175.15	175.14	175.09	174.97	175.00	174.92	174.73	174.76
29	175.08		175.05	175.13	175.14	175.14	175.07	174.99	174.99	174.93	174.75	174.79
30	175.08		175.02	175.13	175.14	175.15	175.11	175.00	174.96	174.91	174.74	174.78
31	175.08		175.03		175.14		175.08	175.03		174.91		174.80
MEAN	175.08	175.06	175.00	175.13	175.14	175.13	175.10	175.04	175.00	174.93	174.85	174.75
MAX.	175.24	175.13	175.23	175.28	175.28	175.24	175.24	175.12	175.15	175.13	175.03	174.92
	1600/06	1100/08	1700/25	1400/06	1200/04	1000/08	1900/02	0200/10	1300/13	0800/16	0500/27	0700/03
MIN.	174.93	175.01	174.88	174.89	174.96	174.95	175.00	174.92	174.87	174.77	174.46	174.56
	2100/09	2400/28	1800/14	1300/01	1200/09	0700/26	0900/29	1400/16	0100/16	0900/06	2300/17	0300/21

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

/ Indicates No Data.

ANNUAL MEAN: 175.02

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	175.19	May
Daily mean elevation:	175.26	6 Jan
Instant/hourly elevation:	175.33	1400/6 Apr

LOWEST		
Monthly mean elevation:	174.84	Dec
Daily mean elevation:	174.76	25 Dec
Instant/hourly elevation:	174.68	1100/13 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.26	6 Jan
175.17	8 Feb
175.23	25 Mar
175.24	9 Apr
175.23	16 May
175.20	15 Jun
175.22	2 Jul
175.13	11 Aug
175.12	13 Sep
175.06	16 Oct
174.97	1 Nov
174.93	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.04	17 Jan
175.08	28 Feb
174.99	14 Mar
175.04	1 Apr
175.11	9 May
175.17	22 Jun
175.12	29 Jul
175.05	29 Aug
175.02	15 Sep
174.92	6 Oct
174.83	30 Nov
174.76	25 Dec

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

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
175.25	1											
175.20	6		2	6	9		2					
175.15	3	5	2	22	17	30	10					
175.10	11	10	4	1	5		19	14	1			
175.05	7	13	11					15	18	1		
175.00	3		8	1				2	11	11		
174.95			4							18	7	
174.90										1	15	2
174.85											3	11
174.80											5	9
174.75												9

Elev. (m.)	No. of days above elev.
175.25	1
175.20	26
175.15	115
175.10	180
175.05	245
175.00	281
174.95	310
174.90	328
174.85	342
174.80	356
174.75	365
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	175.23	175.14	175.07	175.04	175.15	175.19	175.21	175.13	175.07	175.03	174.97	174.86
2	175.20	175.14	175.06	175.13	175.15	175.18	175.22	175.12	175.06	175.04	174.96	174.89
3	175.21	175.14	175.06	175.18	175.16	175.19	175.20	175.12	175.05	175.03	174.96	174.93
4	175.22	175.14	175.06	175.17	175.20	175.18	175.19	175.12	175.06	175.00	174.96	174.81
5	175.23	175.13	175.07	175.19	175.19	175.18	175.18	175.13	175.06	175.01	174.95	174.83
6	175.26	175.14	175.07	175.24	175.16	175.18	175.17	175.12	175.04	174.92	174.94	174.87
7	175.25	175.15	175.06	175.21	175.16	175.18	175.17	175.13	175.04	174.96	174.96	174.91
8	175.22	175.17	175.06	175.23	175.17	175.19	175.14	175.10	175.05	174.98	174.93	174.89
9	175.16	175.16	175.05	175.24	175.11	175.18	175.16	175.11	175.06	175.01	174.92	174.85
10	175.13	175.16	175.03	175.22	175.14	175.19	175.16	175.13	175.06	175.01	174.94	174.84
11	175.12	175.16	175.02	175.17	175.14	175.18	175.17	175.13	175.03	175.01	174.93	174.88
12	175.07	175.16	175.01	175.19	175.16	175.17	175.17	175.12	175.06	174.99	174.95	174.86
13	175.05	175.15	174.99	175.17	175.20	175.18	175.15	175.11	175.12	175.03	174.93	174.78
14	175.06	175.14	174.99	175.19	175.20	175.19	175.15	175.11	175.05	175.03	174.89	174.79
15	175.06	175.12	175.00	175.20	175.22	175.20	175.15	175.11	175.02	175.03	174.93	174.79
16	175.04	175.10	175.01	175.20	175.23	175.19	175.16	175.07	175.05	175.06	174.95	174.81
17	175.04	175.09	175.02	175.19	175.22	175.18	175.15	175.08	175.06	175.03	174.91	174.77
18	175.06	175.08	175.02	175.22	175.22	175.17	175.14	175.10	175.08	175.00	174.85	174.83
19	175.07	175.08	175.00	175.18	175.21	175.18	175.13	175.07	175.07	174.98	174.89	174.87
20	175.10	175.08	175.02	175.17	175.20	175.18	175.13	175.09	175.06	175.00	174.94	174.86
21	175.13	175.08	175.06	175.18	175.22	175.17	175.14	175.10	175.06	174.99	174.95	174.76
22	175.14	175.08	175.12	175.19	175.21	175.17	175.13	175.09	175.07	174.99	174.92	174.78
23	175.13	175.09	175.14	175.19	175.21	175.18	175.12	175.09	175.09	174.99	174.92	174.82
24	175.11	175.08	175.19	175.18	175.21	175.18	175.14	175.07	175.06	174.99	174.85	174.85
25	175.10	175.08	175.23	175.19	175.20	175.18	175.14	175.09	175.07	174.96	174.89	174.76
26	175.16	175.08	175.22	175.18	175.20	175.19	175.13	175.08	175.06	174.98	174.96	174.80
27	175.14	175.08	175.19	175.17	175.19	175.18	175.12	175.10	175.03	174.96	174.96	174.78
28	175.13	175.08	175.15	175.17	175.19	175.19	175.14	175.05	175.05	174.97	174.84	174.84
29	175.14		175.13	175.17	175.19	175.18	175.12	175.05	175.06	174.99	174.85	174.88
30	175.14		175.10	175.16	175.18	175.18	175.15	175.06	175.03	174.98	174.83	174.88
31	175.13		175.08		175.19		175.14	175.08		174.97		174.90
MEAN	175.14	175.12	175.07	175.18	175.19	175.18	175.15	175.10	175.06	175.00	174.92	174.84
MAX.	175.28	175.17	175.26	175.33	175.30	175.24	175.23	175.16	175.20	175.13	175.04	174.99
	0900/01	1500/08	1600/25	1400/06	0800/13	1000/08	1900/01	0800/16	1300/13	0800/16	0600/27	0600/03
MIN.	175.03	175.07	174.98	174.99	175.04	175.11	175.06	175.00	174.95	174.87	174.70	174.68
	0400/17	2300/28	0100/14	1500/01	1100/09	2000/01	2000/26	1600/19	0100/16	1600/06	2200/17	1100/13

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

/ Indicates No Data.

ANNUAL MEAN: 175.08

ANNUAL SUMMARY OF LEVELS, 1978
Station 4070: Algonac, Michigan on St. Clair River

INTERNATIONAL
GRFAT LAKES
DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	175.41	Jan	175.06	Dec
Daily mean elevation:	175.50	12 Jan	175.01	24 Dec
Instant/hourly elevation:	175.60	2015/11 Jan	174.94	2007/24 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.50	12 Jan
175.43	3 Feb
175.46	30 Mar
175.35	13 Apr
175.34	23 May
175.37	26 Jun
175.34	2 Jul
175.31	16 Aug
175.25	24 Sep
175.24	6 Oct
175.17	2 Nov
175.14	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.33	24 Jan
175.23	28 Feb
175.14	14 Mar
175.21	2 Apr
175.26	4 May
175.30	20 Jun
175.28	20 Jul
175.24	31 Aug
175.21	13 Sep
175.15	31 Oct
175.04	27 Nov
175.01	24 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
175.45	6		1									
175.40	5	6	1									
175.35	9	8	1			1						
175.30	4	7	2	12	20	27	16	1				
175.25		4	4	15	11	2	15	24				
175.20		3	9	3				6	30	10		
175.15			10							19	4	
175.10			3							2	12	4
175.05											13	15
175.00											1	12

Elev. (m.)	No. of days above elev.
175.45	7
175.40	19
175.35	38
175.30	127
175.25	202
175.20	263
175.15	296
175.10	317
175.05	345
175.00	358

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4070: Algonac, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	175.35	175.41*	175.24	175.25	175.28	175.32	175.33	175.29	175.24	175.21	175.16	175.07
2	175.38	175.43*	175.24	175.21	175.28	175.32	175.34	175.29	175.23	175.22	175.17	175.07
3	175.36	175.43	175.23	175.23	175.28	175.32	175.33	175.29	175.23	175.22	175.15	175.09
4	175.37	175.39	175.24	175.26	175.26	175.32	175.33	175.28	175.23	175.23	175.15	175.14
5	175.38	175.38	175.24	175.32	175.29	175.32	175.32	175.29	175.23	175.24	175.14	175.11
6	175.38	175.40*	175.23	175.32	175.28	175.32	175.32	175.28	175.23	175.24	175.14	175.06
7	175.35	175.40	175.23	175.34	175.28	175.32	175.32	175.28	175.23	175.20	175.14	175.06
8	175.35	175.40	175.21	175.33	175.28	175.32	175.32	175.30	175.22	175.21	175.16	175.07
9	175.39	175.41	175.20	175.32	175.31	175.32	175.31	175.29	175.23	175.21	175.16	175.10
10	175.42	175.42	175.19	175.31	175.29	175.33	175.31	175.29	175.22	175.20	175.12	175.10
11	175.50	175.41	175.17	175.35	175.28	175.33	175.31	175.29	175.23	175.20	175.10	175.09
12	175.50	175.40	175.17	175.35	175.31	175.34	175.31	175.28	175.22	175.20	175.09	175.08
13	175.46	175.38	175.14	175.35	175.30	175.33	175.31	175.28	175.21	175.20	175.09	175.11
14	175.47	175.36	175.14	175.33	175.31	175.34	175.30	175.27	175.22	175.19	175.12	175.12
15	175.40	175.33	175.16	175.32	175.32	175.34	175.30	175.28	175.24	175.20	175.11	175.09
16	175.39*	175.32	175.16	175.32	175.34	175.32	175.29	175.31	175.23	175.18	175.09	175.04
17	/	175.32	175.16	175.30	175.34	175.32	175.28	175.28	175.24	175.20	175.15	175.06
18	/	175.34	175.16	175.29	175.34	175.31	175.28	175.27	175.24	175.21	175.12	175.03
19	/	175.33	175.17	175.28	175.34	175.30	175.28	175.27	175.24	175.20	175.10	175.01
20	/	175.31	175.15	175.29	175.34	175.30	175.28	175.26	175.24	175.18	175.10	175.04
21	/	175.32	175.20	175.30	175.33	175.31	175.29	175.26	175.25	175.19	175.09	175.10
22	/	175.30	175.24	175.30	175.34	175.32	175.30	175.26	175.25	175.18	175.09	175.07
23	/	175.28	175.27	175.30	175.34	175.32	175.31	175.27	175.25	175.17	175.12	175.03
24	175.33*	175.26	175.30	175.29	175.33	175.32	175.30	175.26	175.25	175.20	175.12	175.01
25	175.37	175.26	175.30	175.28	175.33	175.33	175.30	175.25	175.24	175.22	175.10	175.05
26	175.47	175.25	175.33	175.28	175.33	175.37	175.30	175.25	175.24	175.17	175.06	175.03
27	175.46	175.24	175.35	175.28	175.32	175.35	175.31	175.25	175.24	175.19	175.04	175.03
28	175.44	175.23	175.37	175.28	175.32	175.34	175.30	175.27	175.23	175.16	175.08	175.02
29	175.44		175.43	175.26	175.31	175.33	175.32	175.25	175.23	175.16	175.08	175.03
30	175.42		175.46	175.26	175.32	175.32	175.29	175.25	175.22	175.15	175.07	175.03
31	175.41		175.30		175.32		175.29	175.24		175.15		175.06
MEAN	175.41	175.35	175.24	175.30	175.31	175.32	175.31	175.27	175.23	175.20	175.11	175.06
MAX.	175.60	175.45	175.53	175.42	175.41	175.57	175.39	175.41	175.33	175.35	175.35	175.23
	2015/11	1233/02	0330/30	1625/12	1905/20	0733/26	0307/29	1330/16	1658/14	1605/05	2120/17	2137/04
MIN.	175.28	175.22	175.10	175.18	175.17	175.18	175.20	175.19	175.14	175.08	174.98	174.94
	0015/08	2050/28	0600/14	0643/03	1930/08	0510/18	1942/26	2042/19	2049/10	2052/29	2345/26	2007/24

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

/ Indicates No Data.

ANNUAL MEAN: 175.26

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	175.82	Jan	Monthly mean elevation:	175.52	Dec
Daily mean elevation:	176.02	14 Jan	Daily mean elevation:	175.44	30 Dec
Instant/hourly elevation:	176.05	0100/14 Jan	Instant/hourly elevation:	175.36	2100/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.02	14 Jan
175.85	7 Feb
175.75	29 Mar
175.70	21 Apr
175.74	21 May
175.77	13 Jun
175.76	10 Jul
175.74	9 Aug
175.74	21 Sep
175.72	7 Oct
175.64	2 Nov
175.57	13 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.64	7 Jan
175.58	28 Feb
175.50	13 Mar
175.57	3 Apr
175.63	11 May
175.69	16 Jun
175.69	19 Jul
175.67	27 Aug
175.60	14 Sep
175.57	30 Oct
175.50	27 Nov
175.44	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.
176.00	1												176.00	1
175.95													175.95	1
175.90	6												175.90	7
175.85	7												175.85	14
175.80	5	1											175.80	20
175.75	4	6				1	1						175.75	32
175.70	2	5	2		14	24	28	14	7	1			175.70	129
175.65	5	5	3	21	14	5	2	17	20	18			175.65	239
175.60	1	9	5	7	3				1	11	6		175.60	282
175.55		2	9	2					2	1	15	8	175.55	321
175.50			11								8	15	175.50	355
175.45			1								1	4	175.45	361
175.40												4	175.40	365
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	175.68	175.79	175.59	175.60	175.70	175.70	175.71	175.73	175.69	175.70	175.61	175.56
2	175.69	175.78	175.58	175.63	175.68	175.74*	175.72	175.71	175.68	175.67	175.64	175.56
3	175.71	175.77	175.58	175.57	175.66	175.71	175.74	175.74	175.71	175.65	175.60	175.51
4	175.67	175.74	175.59	175.63	175.63	175.71	175.74	175.72	175.69	175.68	175.60	175.53
5	175.70	175.74	175.59	175.67	175.66	175.72	175.73	175.72	175.70	175.67	175.58	175.57
6	175.68	175.79	175.57	175.63	175.67	175.70	175.71	175.72	175.67	175.69	175.62	175.56
7	175.64	175.85	175.57	175.66	175.66	175.70	175.71	175.71	175.69	175.72	175.62	175.53
8	175.71	175.79	175.55	175.70	175.63	175.73	175.73	175.71	175.66	175.69	175.58	175.55
9	175.79	175.76	175.54	175.65	175.67	175.74	175.73	175.74	175.67	175.67	175.63	175.57
10	175.86	175.73	175.55	175.63	175.68	175.71	175.76	175.73	175.63	175.66	175.57	175.57
11	175.82	175.71	175.53	175.67	175.63	175.71	175.74	175.72	175.67	175.64	175.57	175.53
12	175.92	175.71	175.53	175.69	175.66	175.73	175.72	175.70	175.67	175.67	175.57	175.51
13	175.95	175.69	175.50	175.69	175.67	175.77	175.72	175.70	175.60	175.70	175.52*	175.57
14	176.02	175.67	175.51	175.70	175.70	175.74	175.72	175.70	175.60	175.68	175.59	175.55
15	175.95	175.64	175.55	175.69	175.72	175.72	175.72	175.68	175.67	175.67	175.60	175.52
16	175.92	175.64	175.53	175.68	175.73	175.69	175.74	175.70	175.69	175.66	175.56	175.51
17	175.94	175.63	175.54	175.66	175.74	175.71	175.71	175.73	175.68	175.65	175.53	175.56
18	175.91	175.66	175.52	175.63	175.72	175.75	175.69	175.68	175.67	175.67	175.56	175.52
19	175.90	175.66	175.57	175.63	175.72	175.72	175.69	175.71	175.67	175.67	175.61	175.48
20	175.90	175.65	175.54	175.68	175.73	175.71	175.71	175.73	175.68	175.65	175.58	175.45
21	175.89	175.66	175.58	175.70	175.74	175.74	175.71	175.69	175.74	175.63	175.54	175.53
22	175.85	175.64	175.62	175.67	175.72	175.74	175.72	175.70	175.73	175.65	175.55	175.49
23	175.79	175.61	175.66	175.66	175.72	175.74	175.73	175.68	175.71	175.69	175.55	175.51
24	175.77	175.61	175.70	175.67	175.72	175.72	175.73	175.70	175.72	175.63	175.60	175.44
25	175.85	175.61	175.62	175.68	175.71	175.70	175.72	175.70	175.73	175.65	175.59	175.51
26	175.90	175.61	175.63	175.66	175.71	175.74	175.72	175.70	175.68	175.67	175.54	175.50
27	175.88	175.59	175.65	175.67	175.71	175.75	175.75	175.67	175.73	175.65	175.50	175.51
28	175.86	175.58	175.67	175.67	175.70	175.74	175.74	175.69	175.70	175.67	175.53	175.50
29	175.84		175.75	175.66	175.70	175.74	175.75	175.70	175.69	175.63	175.51	175.44
30	175.81		175.74	175.66	175.70	175.74	175.73	175.70	175.66	175.57	175.58	175.44
31	175.77		175.62		175.72		175.72	175.69		175.65		175.52
MEAN	175.82	175.69	175.59	175.66	175.69	175.73	175.72	175.71	175.68	175.66	175.57	175.52
MAX.	176.05	175.87	175.85	175.77	175.82	175.89	175.88	175.86	175.82	175.75	175.70	175.67
	0100/14	0900/07	2200/23	0200/08	2000/20	0900/26	1700/29	1600/19	1800/27	2100/07	0500/30	2100/13
MIN.	175.58	175.56	175.36	175.45	175.56	175.63	175.63	175.58	175.54	175.53	175.41	175.38
	0800/04	2000/28	2100/18	0700/03	1500/04	2000/25	2400/26	0900/16	0100/14	2000/30	1600/29	2300/29

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

/ Indicates No Data.

ANNUAL MEAN: 175.67

ANNUAL SUMMARY OF LEVELS, 1978
Station 4084: Marysville, Michigan on St. Clair River

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	175.96	Jan	Monthly mean elevation:	175.76	Dec
Daily mean elevation:	176.10	14 Jan	Daily mean elevation:	175.65	30 Dec
Instant/hourly elevation:	176.18	1549/19 Aug	Instant/hourly elevation:	175.50	2045/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.10	14 Jan
175.97	7 Feb
175.89	29 Mar
175.91	21 Apr
175.95	21 May
176.00	13 Jun
176.00	10 Jul
175.98	3 Aug
175.99	27 Sep
175.99	7 Oct
175.88	7 Nov
175.83	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.79	7 Jan
175.76	28 Feb
175.70	18 Mar
175.74	3 Apr
175.81	11 May
175.89	16 Jun
175.92	19 Jul
175.90	27 Aug
175.81	14 Sep
175.80	30 Oct
175.72	17 Nov
175.65	30 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
176.05	3											
176.00	5											
175.95	10	1				8	10	7	6	2		
175.90	3	5		1	18	20	21	23	17	16		
175.85	6	6	3	14	6	2		1	4	12	7	
175.80	3	6	2	10	7				3		14	8
175.75	1	10	15	4						1	4	7
175.70			9	1							5	12
175.65			2									2
175.60												2

Elev. (m.)	No. of days above elev.
176.05	3
176.00	8
175.95	52
175.90	176
175.85	237
175.80	290
175.75	332
175.70	359
175.65	363
175.60	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 4084: Marysville, Michigan on St. Clair River

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	175.86	175.93	175.77	175.79*	175.91	175.92	175.93	175.96	175.93	175.95	175.86	175.81
2	175.85	175.91	175.77	175.83	175.88	175.93	175.94	175.93	175.91	175.92	175.88	175.82
3	175.90	175.91	175.77	175.74	175.86	175.93	175.95	175.98	175.96	175.88	175.84	175.75
4	175.84	175.87	175.78	175.78	175.84	175.92	175.96	175.96	175.92	175.91	175.85	175.73
5	175.88	175.88	175.78	175.84	175.85	175.94	175.95	175.95	175.93	175.89	175.81	175.80
6	175.84	175.92	175.76	175.79	175.86	175.90	175.92	175.95	175.92	175.93	175.88	175.81
7	175.79	175.97	175.77	175.83	175.85	175.91	175.93	175.94	175.94	175.99	175.88	175.78
8	175.89	175.92	175.75	175.89	175.81	175.94	175.95	175.94	175.89	175.95	175.81	175.81
9	175.99	175.89	175.74	175.83	175.84	175.95	175.95	175.97	175.91	175.91	175.87	175.82
10	176.07	175.88	175.75	175.79	175.87	175.91	176.00	175.96	175.85	175.91	175.81	175.82
11	175.99	175.87	175.72	175.84	175.81	175.92	175.97	175.94	175.91	175.88	175.82	175.76
12	176.05	175.88	175.74	175.87	175.84	175.95	175.94	175.93	175.92	175.91	175.83	175.73
13	176.06	175.85	175.70	175.87	175.86	176.00	175.93	175.93	175.82	175.95	175.74	175.81
14	176.10	175.82	175.71	175.89	175.89	175.96	175.95	175.93	175.81	175.94	175.84	175.79
15	176.04	175.79	175.76	175.88	175.93	175.92	175.95	175.91	175.91	175.92	175.86	175.74
16	176.02	175.79	175.73	175.87	175.94	175.89	175.97	175.91	175.94	175.91	175.81	175.75
17	176.03	175.80	175.74	175.85	175.95	175.91	175.94	175.97	175.92	175.89	175.72	175.83
18	176.00	175.82	175.70	175.82	175.93	175.94	175.92	175.91	175.90	175.91	175.79	175.79
19	176.00	175.82	175.78	175.82	175.93	175.95	175.92	175.95	175.89	175.92	175.87	175.74
20	176.00	175.80	175.74	175.89	175.94	175.94	175.94	175.97	175.92	175.90	175.84	175.69
21	175.99	175.82	175.77	175.91	175.95	175.96	175.95	175.93	175.99	175.86	175.79	175.76
22	175.95	175.81	175.79	175.87	175.93	175.96	175.94	175.93	175.97	175.90	175.81	175.72
23	175.89	175.78	175.85	175.85	175.93	175.95	175.97	175.92	175.95	175.96	175.79	175.76
24	175.88	175.79	175.88	175.85	175.94	175.94	175.96	175.94	175.96	175.87	175.85	175.68
25	175.96	175.79	175.78	175.88	175.93	175.92	175.95	175.94	175.98	175.88	175.85	175.75
26	176.02	175.79	175.76	175.87	175.93	175.95	175.94	175.93	175.91	175.92	175.79	175.75
27	176.00	175.78	175.80	175.87	175.92	175.96	175.99	175.90	175.99	175.88	175.75	175.75
28	176.00	175.76	175.81	175.87	175.92	175.96	175.98	175.91	175.94	175.93	175.75	175.74
29	175.97		175.89	175.87	175.91	175.97	175.98	175.95	175.91	175.88	175.73	175.65
30	175.94		175.86	175.87	175.91	175.97	175.97	175.95	175.88	175.80	175.84	175.65
31	175.91		175.78		175.93		175.95	175.94		175.90		175.75
MEAN	175.96	175.84	175.77	175.85	175.90	175.94	175.95	175.94	175.92	175.91	175.82	175.76
MAX.	176.16	176.01	176.09	175.98	176.09	176.10	176.13	176.18	176.07	176.04	175.98	175.95
	0528/26	0030/07	2200/23	0125/08	1928/20	0907/26	1630/29	1549/19	0123/25	1026/23	0145/07	2150/13
MIN.	175.73	175.73	175.50	175.60	175.72	175.63	175.78	175.70	175.70	175.73	175.60	175.56
	0727/04	1100/28	2045/18	1045/04	2213/11	0410/17	2008/26	0915/16	1200/14	2220/30	1545/29	2255/29

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

/ Indicates No Data.

ANNUAL MEAN: 175.88

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	176.09	Aug
Daily mean elevation:	176.22	10 Jan
Instant/hourly elevation:	176.35	1600/19 Aug

LOWEST		
Monthly mean elevation:	175.88	Mar
Daily mean elevation:	175.80	30 Dec
Instant/hourly elevation:	175.60	2100/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.22	10 Jan
176.06	7 Feb
176.00	29 Mar
176.04	21 Apr
176.09	21 May
176.14	13 Jun
176.13	29 Jul
176.16	20 Aug
176.15	27 Sep
176.16	7 Oct
176.04	19 Nov
175.99	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
175.89	7 Jan
175.87	28 Feb
175.81	18 Mar
175.85	3 Apr
175.92	11 May
176.01	16 Jun
176.04	19 Jul
176.04	28 Aug
175.93	14 Sep
175.94	30 Oct
175.83	17 Nov
175.80	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.
176.20	1												176.20	1
176.15	1							1		1			176.15	4
176.10	6					1	8	5	6	4			176.10	34
176.05	9	1			10	16	19	20	15	15			176.05	139
176.00	4	5		5	11	13	4	5	6	10	10		176.00	212
175.95	5	7	3	14	6				2		10	8	175.95	267
175.90	4	6	3	6	4				1	1	5	12	175.90	309
175.85	1	9	19	4							4	7	175.85	353
175.80			6	1							1	2	175.80	363
175.75												2	175.75	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	175.97	176.02	175.89	175.90	176.05	176.04	176.06	176.10	176.07	176.12	176.02	175.97
2	175.95	176.03	175.88	175.96	176.02	176.05	176.07	176.07	176.06	176.07	176.03	175.99
3	175.95	176.03	175.88	175.85	175.99	176.05	176.09	176.13	176.13	176.02	175.99	175.89
4	175.91	175.97	175.90	175.89	175.97	176.05	176.09	176.11	176.08	176.06	176.01	175.86
5	176.00	175.98	175.88	175.95	175.98	176.07	176.07	176.10	176.09	176.04	175.96	175.95
6	175.94	176.02	175.87	175.90	175.99	176.02	176.05	176.10	176.07	176.09	176.04	175.97
7	175.89	176.06	175.88	175.95	175.97	176.03	176.05	176.09	176.10	176.16	176.04	175.92
8	176.01	176.01	175.86	176.01	175.92	176.08	176.08	176.07	176.04	176.12	175.95	175.96
9	176.13	175.99	175.85	175.94	175.95	176.08	176.08	176.11	176.08*	176.06	176.03	175.99
10	176.22	175.98	175.87	175.88	176.01	176.03	176.13	176.11	175.99	176.06	175.96	175.98
11	176.11	175.97	175.83	175.94	175.92	176.03	176.11	176.09	176.05	176.03	175.99	175.91
12	176.14	175.99	175.86	175.97	175.95	176.07	176.07	176.07	176.08	176.06	175.99	175.88
13	176.14	175.96	175.82	175.98	175.98	176.14	176.06	176.07	175.96	176.12	175.88	175.97
14	176.18	175.93	175.84	176.02	176.01	176.09	176.08	176.07	175.93	176.10	176.00	175.93
15	176.10	175.89	175.89	176.00	176.06	176.05	176.09	176.05	176.06	176.08	176.02	175.89
16	176.09	175.90	175.85	175.99	176.07	176.01	176.11	176.04	176.10	176.06	175.97	175.91
17	176.11	175.90	175.86	175.97	176.07	176.03	176.07	176.12	176.06	176.04	175.83	175.99
18	176.08	175.93	175.81	175.94	176.06	176.05	176.04	176.05	176.04	176.06	175.94	175.95
19	176.08	175.93	175.91	175.94	176.05	176.07	176.04	176.10	176.04	176.08	176.04	175.88
20	176.08	175.91	175.86	176.02	176.06	176.06	176.07	176.16*	176.06	176.05	176.00	175.83
21	176.06	175.94	175.88	176.04	176.09	176.09	176.09	176.08*	176.15	176.01	175.95	175.90
22	176.03	175.92	175.90	176.00	176.06	176.09	176.07	176.08	176.13	176.06	175.96	175.86
23	175.97	175.89	175.96	175.96	176.05	176.09	176.11	176.06	176.10	176.13	175.94	175.92
24	175.97	175.90	176.00	175.98	176.06	176.07	176.10	176.09	176.12	176.02	176.01	175.83
25	176.05	175.90	175.88	176.01	176.06	176.03	176.08	176.10	176.14	176.02	176.02	175.92
26	176.12	175.90	175.86	176.00	176.04	176.06	176.08	176.08	176.05	176.08	175.95	175.92
27	176.10	175.89	175.90	176.00	176.03	176.09	176.13	176.04	176.15	176.03	175.90	175.92
28	176.10	175.87	175.92	175.99	176.03	176.09	176.12	176.04	176.10	176.10	175.90	175.91
29	176.07		176.00	175.99*	176.03	176.10	176.13	176.10	176.06	176.03	175.87	175.80
30	176.03		175.95	176.00	176.02	176.10	176.11	176.10	176.03	175.94	176.00	175.80
31	176.00		175.89		176.06		176.09	176.09		176.07		175.92
MEAN	176.05	175.95	175.88	175.97	176.02	176.06	176.08	176.09	176.07	176.06	175.97	175.91
MAX.	176.28	176.10	176.24	176.11	176.17	176.22	176.28	176.35	176.24	176.22	176.14	176.14
	1000/10	0900/07	2200/23	1100/21	0300/21	2300/17	1800/29	1600/19	0100/25	0300/23	0500/30	2200/13
MIN.	175.74	175.84	175.60	175.75	175.86	175.69	175.94	175.83	175.83	175.89	175.70	175.70
	0700/04	1000/28	2100/18	1000/10	1600/08	0400/18	0600/29	0900/16	1200/14	0900/30	1600/17	2300/29

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

/ Indicates No Data.

ANNUAL MEAN: 176.01

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.21	Jul	Monthly mean elevation:	176.01	Dec
Daily mean elevation:	176.37	10 Jan	Daily mean elevation:	175.89	30 Dec
Instant/hourly elevation:	176.48	1550/19 Aug	Instant/hourly elevation:	175.70	0353/18 Jun

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.37	10 Jan
176.16	7 Feb
176.13	24 Mar
176.17	21 Apr
176.23	21 May
176.25	13 Jun
176.26	27 Jul
176.24	20 Aug
176.27	27 Sep
176.28	7 Oct
176.17	25 Nov
176.10	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.00	7 Jan
175.99	28 Feb
175.94	18 Mar
175.95	3 Apr
176.04	11 May
176.10	16 Jun
176.16	18 Jul
176.14	16 Aug
176.03	14 Sep
176.04	30 Oct
175.95	17 Nov
175.89	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.
176.35	1												176.35	1
176.30													176.30	1
176.25	1						2		3	1			176.25	8
176.20	6				1	6	14	12	8	6			176.20	61
176.15	8	1		1	16	16	15	16	15	14	5		176.15	168
176.10	4	2	1	11	6	7		3	1	9	9		176.10	221
176.05	3	8	3	7	6	1			2		7	6	176.05	264
176.00	4	13	12	7	2				1	1	3	14	176.00	321
175.95	1	2	12	3							2	7	175.95	348
175.90			3	1							1	3	175.90	356
175.85												1	175.85	357
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	176.04*	/	176.02	176.01	176.18	176.15	176.18	176.22	176.19	176.23	176.12	176.10
2	176.04	/	176.02	176.09	176.15	176.16	176.19	176.18	176.17	176.18	176.15	176.09
3	176.11	176.08*	176.02	175.95	176.12	176.16	176.21	176.24	176.24	176.13	176.11	176.05
4	176.02	176.04	176.05	176.00	176.10	176.16	176.21	176.23	176.20	176.17	176.13	175.96
5	176.08	176.07	176.04	176.05	176.10	176.18	176.20	176.21	176.21	176.14	176.07	176.03
6	176.04	176.12	176.02	175.99	176.12	176.13	176.17	176.21	176.18	176.20	176.17	176.08*
7	176.00	176.16	176.02	176.05	176.10	176.13	176.17	176.20	176.21	176.28	176.17	176.02*
8	176.17	176.12	176.00	176.12	176.04	176.18	176.20	176.18	176.16	176.24	176.06	176.06
9	176.26	176.10	175.98	176.04	176.07	176.19	176.21	176.22	176.17	176.17	176.14	176.08
10	176.37	176.10	176.01	175.96	176.13	176.14	176.26	176.23	176.10	176.17	176.07	176.07
11	176.24*	176.08	175.97	176.04	176.04	176.13	176.24	176.20	176.17	176.13	176.10	176.01
12	176.24*	176.10	176.00	176.06	176.06	176.17	176.19	176.18	176.20	176.17	176.11	175.97
13	176.21	176.08	175.95	176.08	176.10	176.25	176.18	176.17	176.07	176.24	175.99	176.04
14	176.25	176.04	175.97	176.13	176.14	176.20	176.20	176.18	176.03	176.22	176.11	176.02
15	176.18	176.00	176.03	176.12	176.20	176.15	176.21	176.16	176.18	176.19	176.15	175.97
16	176.17	176.02	175.99	176.10	176.18	176.10	176.24	176.14	176.22	176.17	176.09	175.99
17	176.19	176.01	176.00	176.08	176.18	176.13	176.20	176.23	176.18	176.15	175.95	176.05
18	176.16	176.05	175.94	176.05	176.17	176.16	176.16	176.16	176.16	176.16	176.05	176.03
19	176.16	176.05	176.06	176.04	176.18	176.17	176.17	176.19	176.16	176.18	176.16	175.98
20	176.16	176.03	176.00	176.14	176.20	176.16	176.20	176.24	176.18	176.16	176.17	175.93
21	176.14	176.06	176.00	176.17	176.23	176.19	176.22	176.18	176.27	176.11	/	176.00
22	176.11	176.03	176.01	176.11	176.19	176.20	176.20	176.19	176.25	176.16	/	175.97
23	176.06	176.01	176.08	176.08	176.18	176.21	176.24	176.17	176.21	176.24	/	176.03
24	176.06	176.02	176.13	176.09	176.19*	176.20	176.23	176.20	176.24	176.11	176.10	175.94
25	176.14	176.03	175.98	176.13	176.17*	176.16	176.20	176.21	176.26	176.12	176.17	176.03
26	176.22	176.03	175.95	176.12	176.17	176.19	176.21	176.20	176.16	176.19	176.10	176.04
27	176.21	176.02	176.00	176.12	176.16	176.21	176.26	176.15	176.27	176.14	176.03	176.05
28	176.20*	175.99	176.01	176.11	176.16	176.22	176.25	176.15	176.22	176.21	176.01	176.03
29	/		176.10	176.12	176.16	176.23	176.25	176.22	176.18	176.15	175.98	175.91
30	/		176.04	176.12	176.14	176.24	176.24	176.21	176.13	176.04	176.15	175.89
31	/		175.98		176.19		176.21	176.20		176.18		176.03
MEAN	176.15	176.06	176.01	176.08	176.15	176.18	176.21	176.20	176.19	176.17	176.10	176.01
MAX.	176.42	176.20	176.38	176.27	176.37	176.34	176.43	176.48	176.45	176.33	176.27	176.20
	0145/10	0037/07	2115/23	0105/02	1904/20	2248/17	1615/29	1550/19	1725/27	1020/23	0150/07	2300/13
MIN.	175.88	175.96	175.70	175.72	175.96	175.70	175.95	175.89	175.90	176.00	175.82	175.75
	0700/04	1300/28	2028/18	0940/04	0942/11	0353/18	1940/26	0855/16	1150/14	0945/30	2340/17	1710/20

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

/ Indicates No Data.

ANNUAL MEAN: 176.13

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.34	Jul	176.09	Mar
Daily mean elevation:	176.44	10 Jan	176.01	18 Mar
Instant/hourly elevation:	176.67	1907/19 Aug	175.74	2017/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.44	10 Jan
176.21	7 Feb
176.22	24 Mar
176.28	21 Apr
176.33	21 May
176.39	13 Jun
176.39	27 Jul
176.38	20 Aug
176.41	27 Sep
176.42	7 Oct
176.36	19 Nov
176.21	18 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.06	7 Jan
176.07	28 Feb
176.01	18 Mar
176.04	3 Apr
176.13	8 May
176.23	16 Jun
176.29	19 Jul
176.26	16 Aug
176.16	14 Sep
176.18	30 Oct
176.10	17 Nov
176.03	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.
176.40	1								2	1			176.40	4
176.35						2	9	6	6	5	1		176.35	33
176.30	1				5	15	16	18	11	15	5		176.30	119
176.25	6			2	14	12	6	7	8	8	10		176.25	192
176.20	6	1	1	11	5	1			1	1	8	1	176.20	228
176.15	9	8	2	9	5				2	1	3	6	176.15	273
176.10	5	10	4	4	2						2	2	176.10	302
176.05	3	9	19	3							1	3	176.05	340
176.00			5	1								2	176.00	348
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	176.17	176.18	176.10	176.11	176.30	176.27	176.30	176.35	176.33	176.37	176.27	/
2	176.13	176.16	176.09	176.20	176.26	176.29	176.31	176.30	176.30	176.32	176.30	/
3	176.22	176.17	176.09	176.04	176.23	176.29	176.33	176.38	176.37	176.26	176.25	/
4	176.12	176.13	176.11	176.09	176.21	176.28	176.34	176.36	176.32	176.31	176.27	/
5	176.19	176.14	176.09	176.16	176.20	176.31	176.32	176.35	176.35	176.28	176.21	/
6	176.12	176.18	176.08	176.09	176.22	176.26	176.29	176.35	176.32	176.33	176.31	/
7	176.06	176.21	176.09	176.15	176.20	176.26	176.30	176.33	176.35	176.42	176.31	/
8	176.22	176.17	176.08	176.23	176.13	176.32	176.33	176.31	176.28	176.38	176.19	/
9	176.35	176.16	176.06	176.14	176.17	176.32	176.33	176.36	176.29	176.31	176.29	/
10	176.44	176.16	176.08	176.07	176.24	176.26	176.39	176.36	176.24	176.31	176.20	/
11	176.27	176.15	176.04	176.14	176.14	176.27	176.36	176.33	176.30	176.27	176.25	/
12	176.29	176.17	176.08	176.17	176.16	176.31	176.33	176.31	176.34	176.32	176.30	/
13	176.27	176.15	176.04	176.18	176.20	176.39	176.30	176.31	176.19	176.37	176.15	/
14	176.30	176.10	176.05	176.24	176.25	176.33	176.33	176.31	176.16	176.35	176.27	/
15	176.21	176.07	176.11	176.23	176.31	176.28	176.33	176.28	176.31	176.34	176.30	/
16	176.20	176.09	176.07	176.21	176.31	176.23	176.37	176.26	176.36	176.32	176.25	/
17	176.23	176.09	176.08	176.19	176.31	176.27	176.32	176.37	176.31	176.29	176.10	/
18	176.20	176.13	176.01	176.16	176.29	176.31	176.29	176.28	176.29	176.31	176.21	176.21*
19	176.20	176.12	176.13	176.16	176.30	176.31	176.29	176.34	176.28	176.33	176.36	176.14
20	176.20	176.10	176.08	176.26	176.31	176.30	176.33	176.38	176.31	176.31	176.35	176.06
21	176.17	176.13	176.09	176.28	176.33	176.33	176.35	176.33	176.41	176.25	176.24	176.13
22	176.15	176.12	176.10	176.22	176.29	176.34	176.32	176.33	176.39	176.32	176.24	176.10
23	176.09	176.09	176.17	176.19	176.29	176.34	176.36	176.30	176.36	176.40	176.21	176.18
24	176.09	176.10	176.22	176.20	176.30	176.32	176.36	176.34	176.38	176.26	176.28	176.08
25	176.20	176.11	176.06	176.25	176.29	176.28	176.33	176.34	176.40	176.26	176.34	176.17
26	176.27	176.11	176.02	176.24	176.29	176.31	176.34	176.33	176.30	176.35	176.29	176.19
27	176.26	176.10	176.07	176.24	176.27	176.34	176.39	176.28	176.41	176.28	176.30	176.19
28	176.25	176.07	176.08	176.23	176.27	176.34	176.38	176.28	176.35	176.36	176.17	176.18
29	176.22		176.17	176.24	176.26	176.35	176.38	176.35	176.31	176.29	176.15	176.03
30	176.18		176.11	176.24	176.26	176.36	176.36	176.35	176.27	176.18	176.33	176.03
31	176.15		176.07		176.30		176.34	176.34		176.33		176.18
MEAN	176.21	176.13	176.09	176.18	176.25	176.31	176.34	176.33	176.32	176.32	176.26	176.13
MAX.	176.53	176.27	176.52	176.40	176.51	176.51	176.56	176.67	176.63	176.58	176.46	176.31
	1317/10	0025/07	2120/23	0100/02	1900/20	2245/17	1815/27	1907/19	1726/27	1022/23	2345/11	1632/18
MIN.	175.96	176.02	175.74	175.83	176.03	175.80	176.07	176.01	175.94	176.06	175.94	175.85
	0703/04	2012/15	2017/18	0946/04	1932/12	0345/18	1945/26	0855/16	1135/14	0652/30	0030/18	1625/20

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

/ Indicates No Data.

ANNUAL MEAN: 176.24

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	176.48	Jul
Daily mean elevation:	176.59	8 Oct
Instant/hourly elevation:	176.72	2100/19 Aug

LOWEST		
Monthly mean elevation:	176.19	Mar
Daily mean elevation:	176.09	26 Mar
Instant/hourly elevation:	175.83	2000/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
176.22	26 Feb
176.33	24 Mar
176.46	27 Apr
176.49	20 May
176.58	14 Jun
176.59	28 Jul
176.53	10 Aug
176.58	22 Sep
176.59	8 Oct
176.49	7 Nov
176.41	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
176.18	28 Feb
176.09	26 Mar
176.13	3 Apr
176.37	30 May
176.36	17 Jun
176.40	6 Jul
176.38	28 Aug
176.30	14 Sep
176.33	30 Oct
176.13	17 Nov
176.12	30 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
176.55						2	2		1	4		
176.50						1	6	4	4	2		
176.45				1	3	3	12	18	9	10	2	
176.40				8	5	15	10	8	8	8	8	1
176.35				2	6	9	1	1	6	6	7	4
176.30			1	4					1	1	8	6
176.25			2	6					1		3	4
176.20		2	4	3								6
176.15		5	15	4							1	5
176.10			8	2							1	2
176.05			1									

Elev. (m.)	No. of days above elev.
176.55	9
176.50	26
176.45	84
176.40	155
176.35	197
176.30	218
176.25	234
176.20	249
176.15	279
176.10	292
176.05	293

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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	/	/	176.21	176.20	176.45	176.39	176.43	176.50	176.45	176.49	176.47	176.37
2	/	/	176.20	176.29	176.49*	176.42	176.43	176.48	176.41	176.47	176.42	176.39
3	/	/	176.20	176.13	/	176.41	176.46	176.50	176.51	176.38	176.38	176.23
4	/	/	176.22	176.20	/	176.41	176.46	176.52	176.45	176.43	176.37	176.15
5	/	/	176.20	176.25	/	176.44	176.43	176.50	176.47	176.39	176.32	176.21
6	/	/	176.19	176.18	/	176.37	176.40	176.49	176.44	176.45	176.45	176.32
7	/	/	176.20	176.25	/	176.38	176.41	176.48	176.46	176.58	176.49	176.32
8	/	/	176.18	176.33	/	176.43	176.44	176.46	176.39	176.59	176.31	176.33
9	/	/	176.15	176.18	/	176.48	176.45	176.47	176.46	176.49	176.41	176.38*
10	/	/	176.19	176.15	/	176.42	176.54	176.53	176.33	176.46	176.35	/
11	/	/	176.15	176.23	/	176.36	176.54	176.52	176.39	176.44	176.31	/
12	/	/	176.19	176.26	/	176.42	176.47	176.48	176.44	176.42	176.45	176.18*
13	/	/	176.14	176.27	/	176.58	176.42	176.46	176.39	176.50	176.31	176.32
14	/	/	176.15	176.34	/	176.58	176.48	176.46	176.30	176.58	176.39	176.29
15	/	/	176.24	176.34	/	176.51	176.46	176.45	176.39	176.56	176.44	176.23
16	/	/	176.19	176.32	/	176.40*	176.56	176.41	176.48	176.50	176.38	176.30
17	/	/	176.20	176.30	/	176.36	176.54	176.46	176.47	176.41	176.13	176.41
18	/	/	176.11	176.27	/	176.39	176.46	176.45	176.44	176.44	176.29	176.36*
19	/	/	176.26	176.26	/	176.44*	176.44	176.44	176.38	176.46	176.35	/
20	/	/	176.19	176.37	176.49*	176.42	176.45	176.51	176.41	176.43	176.42	176.19
21	/	/	176.19	176.43	176.46	176.42	176.49	176.44	176.49	176.37	176.37	176.24*
22	/	176.20*	176.20	176.43	176.41	176.45	176.49	176.45	176.58	176.44	176.37	176.18*
23	/	176.19	176.27	176.41	176.40	176.45	176.49	176.41	176.49	176.55	176.33	176.28
24	/	176.20	176.33	176.37	176.42	176.44	176.53	176.46	176.51	176.37	176.35	176.19
25	/	176.21	176.13	176.41	176.41	176.38	176.50	176.49	176.55	176.38	176.43	176.25
26	/	176.22	176.09	176.45	176.40	176.38	176.48	176.48	176.42	176.52	176.40	176.30*
27	/	176.20	176.15	176.46	176.39	176.43	176.50	176.42	176.46	176.47	176.30	176.32*
28	/	176.18	176.16	176.43	176.39	176.45	176.59	176.38	176.55	176.49	176.27	176.33
29	/		176.25	176.41	176.38	176.46	176.45	176.46	176.48	176.48	176.20	176.19
30	/		176.19	176.41	176.37	176.48	176.55	176.47	176.39	176.33	176.42	176.12
31	/		176.15		176.42		176.52	176.49		176.38		176.23
MEAN	/	176.20	176.19	176.31	176.42	176.43	176.48	176.47	176.45	176.46	176.36	176.27
MAX.		176.26	176.64	176.49	176.65	176.62	176.61	176.72	176.68	176.70	176.64	176.58
		1200/26	2100/23	1700/21	1900/20	1800/13	0200/10	2100/19	0100/25	1000/23	0400/30	2000/13
MIN.		176.14	175.83	175.94	176.30	176.09	176.26	176.19	176.27	176.23	175.84	176.04
		1200/28	2000/18	0100/01	2300/30	0400/18	0600/29	0800/19	0100/14	1000/25	2200/17	0100/21

ANNUAL MEAN: 176.37

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 5002: Lakeport, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.48	Oct	Monthly mean elevation:	176.22	Mar
Daily mean elevation:	176.61	7 Oct	Daily mean elevation:	176.14	3 Apr
Instant/hourly elevation:	176.74	1600/19 Aug	Instant/hourly elevation:	175.89	2200/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.57	10 Jan
176.33	7 Feb
176.34	24 Mar
176.41	21 Apr
176.48	21 May
176.56	13 Jun
176.56	10 Jul
176.55	20 Aug
176.59	21 Sep
176.61	7 Oct
176.49	19 Nov
176.43	17 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.17	7 Jan
176.19	15 Feb
176.14	18 Mar
176.14	3 Apr
176.26	8 May
176.38	16 Jun
176.42	6 Jul
176.39	16 Aug
176.30	14 Sep
176.34	30 Oct
176.17	17 Nov
176.17	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.
176.60										1			176.60	1
176.55	1					1	1		4	3			176.55	11
176.50							8	7	6	5			176.50	37
176.45					2	13	14	15	9	12	5		176.45	107
176.40	1			1	14	13	8	7	8	8	11	4	176.40	182
176.35	6			8	7	3		1	1	1	6	7	176.35	222
176.30	6	1	2	8	4				1	1	4	11	176.30	260
176.25	9	11	2	7	4				1		3	3	176.25	300
176.20	5	14	17	3								4	176.20	343
176.15	3	2	9	2							1	2	176.15	362
176.10			1	1									176.10	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5002: Lakeport, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.30	176.29	176.25	176.22	176.44	176.41	176.44	176.50	176.47	176.54	176.43	176.41
2	176.25	176.27	176.23	176.31	176.40	176.44	176.45	176.46	176.45	176.48	176.45	176.43
3	176.35	176.29	176.23	176.14	176.37	176.44	176.48	176.53	176.54	176.42	176.41	176.29
4	176.24	176.24	176.25	176.20	176.35	176.42	176.48	176.51	176.47	176.47	176.44	176.21
5	176.31	176.25	176.23	176.27	176.34	176.46	176.45	176.49	176.49	176.43	176.37	176.36
6	176.24	176.30	176.21	176.21	176.36	176.40	176.42	176.49	176.45	176.49	176.49	176.41
7	176.17	176.33	176.23	176.26	176.34	176.41	176.44	176.47	176.51	176.61	176.47	176.36
8	176.34	176.28	176.20	176.36	176.26	176.47	176.47	176.45	176.43	176.56	176.33	176.40
9	176.45	176.27	176.19	176.24	176.30	176.48	176.47	176.51	176.46	176.48	176.45	176.40
10	176.57	176.28	176.22	176.18	176.38	176.41	176.56	176.51	176.38	176.48	176.37	176.40
11	176.38	176.27	176.17	176.26	176.27	176.40	176.51	176.48	176.45	176.44	176.41	176.31
12	176.37	176.30	176.23	176.28	176.29	176.46	176.46	/	176.49	176.48	176.43	176.28
13	176.35	176.28	176.18	176.29	176.34	176.56	176.44	176.46	176.35	176.56	176.27	176.38
14	176.39	176.22	176.18	176.36	176.39	176.48	176.48	176.45	176.30	176.53	176.43	176.33
15	176.29	176.19	176.25	176.35	176.45	176.43	176.49	176.42	176.46	176.51	176.46	176.28
16	176.28	176.21	176.21	176.33	176.45	176.38	176.53	176.39	176.52	176.50	176.40	176.33
17	176.32	176.20	176.23	176.31	176.46	176.41	176.47	176.52	176.49	176.45	176.17	176.43
18	176.27	176.24	176.14	176.28	176.42	176.45	176.44	176.44	176.43	176.47	176.33	176.39
19	176.30	176.24	176.27	176.28	176.42	176.47	176.43	176.49	176.43	176.50	176.49	176.32
20	176.30	176.21	176.22	176.38	176.44	176.45	176.48	176.55	176.46	176.47	176.45	176.24
21	176.25	176.26	176.20	176.41	176.48	176.48	176.48	176.47	176.59	176.42	176.37	176.31
22	176.23	176.25	176.20	176.35	176.43	176.48	176.46	176.47	176.56	176.49	176.38	176.25
23	176.18	176.22	176.28	176.31	176.43	176.48	176.51	176.45	176.52	176.56	176.35	176.35
24	176.19	176.23	176.34	176.32	176.44	176.45	176.51	176.48	176.53	176.40	176.43	176.23
25	176.28	176.24	176.25	176.38	176.43	176.41	176.47	176.50	176.57	176.42	176.46	176.33
26	176.37	176.25	176.20	176.38	176.42	176.43	176.47	176.48	176.45	176.51	176.39	176.35
27	176.38	176.23	176.23	176.37	176.41	176.47	176.53	176.43	176.57	176.45	176.32	176.35
28	176.38	176.22	176.21	176.35	176.41	176.48	176.54	176.42	176.52	176.54	176.30	176.35
29	176.34		176.31	176.36	176.40	176.48	176.52	176.50	176.47	176.45	176.26	176.20
30	176.30		176.23	176.38	176.39	176.49	176.52	176.50	176.44	176.34	176.45	176.17
31	176.27		176.20		176.44		176.49	176.51		176.50		176.34
MEAN	176.31	176.25	176.22	176.30	176.39	176.45	176.48	176.48	176.48	176.48	176.39	176.33
MAX.	176.64	176.41	176.55	176.52	176.59	176.64	176.70	176.74	176.73	176.67	176.64	176.61
	0900/10	2400/06	2100/23	0100/02	2200/20	0700/13	1600/29	1600/19	1700/27	2000/07	0400/30	2000/13
MIN.	176.11	176.14	175.91	175.90	176.18	176.26	176.28	176.20	176.19	176.26	175.89	176.08
	2100/23	2000/15	2000/18	1000/04	1900/08	1800/17	0700/29	0900/16	1100/14	0900/30	2200/17	2200/29

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

ANNUAL MEAN: 176.38

ANNUAL SUMMARY OF LEVELS, 1978
Station 5014: Harbor Beach, Michigan on Lake Huron

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.48	Oct	Monthly mean elevation:	176.21	Mar
Daily mean elevation:	176.59	7 Oct	Daily mean elevation:	176.14	3 Apr
Instant/hourly elevation:	176.67	0400/12 Sep	Instant/hourly elevation:	176.01	0900/4 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.48	10 Jan
176.31	7 Feb
176.27	29 Mar
176.36	21 Apr
176.44	21 May
176.51	13 Jun
176.53	28 Jul
176.52	20 Aug
176.56	21 Sep
176.59	7 Oct
176.49	19 Nov
176.42	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.17	7 Jan
176.20	20 Feb
176.17	26 Mar
176.14	3 Apr
176.26	8 May
176.37	16 Jun
176.43	18 Jul
176.40	16 Aug
176.32	14 Sep
176.36	30 Oct
176.25	17 Nov
176.18	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.
176.55									1	1			176.55	2
176.50						1	3	3	9	5			176.50	23
176.45	1					9	17	16	10	17	3		176.45	96
176.40					12	18	11	11	7	7	11	4	176.40	177
176.35	3			1	9	2		1	1	1	10	9	176.35	214
176.30	5	1		12	7				2		3	10	176.30	254
176.25	15	10	3	8	3						2	3	176.25	298
176.20	6	15	13	5							1	4	176.20	342
176.15	1	2	15	3								1	176.15	364
176.10				1									176.10	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5014: Harbor Beach, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.27	176.28	176.23	176.20	176.40	176.41	176.43	176.48	176.46	176.54	176.43	176.41
2	176.27	176.27	176.22	176.27	176.37	176.42	176.43	176.47	176.45	176.49	176.46	176.42
3	176.35	176.28	176.21	176.14	176.33	176.43	176.46	176.51	176.52	176.42	176.41	176.31
4	176.27	176.22	176.24	176.22	176.31	176.41	176.46	176.50	176.47	176.47	176.43	176.25
5	176.29	176.23	176.22	176.25	176.31	176.44	176.44	176.49	176.48	176.47	176.39	176.39
6	176.23	176.27	176.20	176.20	176.34	176.40	176.43	176.48	176.46	176.50	176.47	176.41
7	176.17	176.31	176.21	176.24	176.31	176.41	176.44	176.46	176.51	176.59	176.45	176.36
8	176.30	176.26	176.19	176.31	176.26	176.45	176.46	176.45	176.42	176.55	176.37	176.37
9	176.38	176.26	176.18	176.22	176.30	176.45	176.48	176.49	176.44	176.49	176.45	176.40
10	176.48	176.27	176.20	176.17	176.37	176.41	176.52	176.49	176.37	176.48	176.37	176.40
11	176.38	176.27	176.17	176.25	176.29	176.41	176.50	176.45	176.45	176.45	176.38	176.34
12	176.36	176.30	176.21	176.30	176.31	176.45	176.45	176.43	176.47	176.50	176.39	176.31
13	176.29	176.27	176.17	176.30	176.33	176.51	176.44	176.44	176.34	176.53	176.30	176.38
14	176.30	176.21	176.19	176.35	176.37	176.46	176.46	176.45	176.32	176.50	176.42	176.38
15	176.26	176.20	176.23	176.33	176.41	176.42	176.46	176.43	176.48	176.50	176.45	176.31
16	176.28	176.21	176.20	176.31	176.41	176.37	176.49	176.40	176.51	176.46	176.39	176.35
17	176.28	176.21	176.20	176.29	176.43	176.41	176.45	176.52	176.46	176.45	176.25	176.41
18	176.25	176.24	176.17	176.26	176.41	176.46	176.43	176.45	176.42	176.48	176.34	176.37
19	176.27	176.23	176.26	176.26	176.42	176.45	176.44	176.46	176.42	176.49	176.49	176.30
20	176.27	176.20	176.22	176.34	176.43	176.43	176.47	176.52	176.47	176.48	176.43	176.24
21	176.24	176.24	176.19	176.36	176.44	176.46	176.47	176.45	176.56	176.45	176.36	176.30
22	176.23	176.24	176.21	176.33	176.41	176.47	176.46	176.46	176.54	176.48	176.38	176.29
23	176.22	176.22	176.25	176.28	176.40	176.46	176.49	176.45	176.51	176.51	176.36	176.35
24	176.21	176.23	176.27	176.30	176.42	176.44	176.49	176.49	176.53	176.44	176.43	176.25
25	176.26	176.22	176.19	176.34	176.42	176.41	176.45	176.47	176.55	176.47	176.44	176.32
26	176.35	176.24	176.17	176.34	176.41	176.42	176.46	176.46	176.48	176.49	176.37	176.36
27	176.33	176.22	176.20	176.34	176.40	176.47	176.52	176.41	176.54	176.45	176.30	176.35
28	176.35	176.21	176.21	176.34	176.39	176.48	176.53	176.41	176.52	176.51	176.31	176.33
29	176.31		176.27	176.33	176.38	176.48	176.48	176.50	176.48	176.44	176.32	176.21
30	176.28		176.22	176.34	176.38	176.47	176.49	176.49	176.44	176.36	176.45	176.18
31	176.26		176.19		176.43		176.46	176.48		176.48		176.32
MEAN	176.29	176.24	176.21	176.28	176.37	176.44	176.47	176.47	176.47	176.48	176.39	176.33
MAX.	176.53	176.35	176.37	176.40	176.53	176.54	176.60	176.57	176.67	176.61	176.57	176.51
	0600/26	0800/07	2100/23	2300/30	2300/20	1600/18	0400/28	0200/20	0400/12	1900/07	1400/19	2200/13
MIN.	176.13	176.17	176.06	176.01	176.18	176.30	176.36	176.30	176.25	176.31	176.09	176.11
	0300/07	2000/15	1900/18	0900/04	2000/08	0100/18	0300/23	0800/19	1000/14	0800/30	2400/17	0200/30

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

/ Indicates No Data.

ANNUAL MEAN: 176.37

ANNUAL SUMMARY OF LEVELS, 1978

Station 5034: Essexville, Michigan on Lake Huron (Saginaw Bay)

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST		
Monthly mean elevation:	176.49	Sep	176.22	Mar	
Daily mean elevation:	176.75	12 Sep	176.15	1 Apr	
Instant/hourly elevation:	177.04	0800/12 Sep	176.02	1728/11 May	

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.37	10 Jan
	Feb
176.29	24 Mar
176.50	25 Apr
176.54	15 May
176.57	13 Jun
176.56	30 Jul
176.54	3 Aug
176.75	12 Sep
176.59	13 Oct
176.55	20 Nov
176.37	1 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.19	7 Jan
	Feb
176.16	18 Mar
176.15	1 Apr
176.21	11 May
176.35	6 Jun
176.38	6 Jul
176.21	16 Aug
176.32	14 Sep
176.31	30 Oct
176.17	29 Nov
176.37	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.
176.70									1				176.70	1
176.65													176.65	1
176.60													176.60	1
176.55						1	1		6	5			176.55	14
176.50					1	1	8	6	3	3	1		176.50	37
176.45				1	3	11	11	11	12	6	2		176.45	94
176.40				5	16	9	8	10	1	8	7		176.40	158
176.35	1				5	7	3	3	6	6	9	1	176.35	199
176.30	2			13	2	1			1	3	4		176.30	225
176.25	3		3	2	2						3		176.25	238
176.20	2		9	6	2			1			1		176.20	259
176.15	2		5	2							2		176.15	270
176.10				1									176.10	271
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5034: Essexville, Michigan on Lake Huron (Saginaw Bay)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.29	/	/	176.15	176.45	176.43	176.42	176.50	176.46	176.52	176.37	176.37*
2	176.20	/	/	176.32	176.41	176.43	176.49	176.42	176.38	176.46	176.39	/
3	176.31	/	/	176.17	176.37	176.43	176.53	176.54	176.57	176.36	176.39	/
4	176.23	/	/	176.21	176.49	176.41	176.48	176.49	176.47	176.38	176.42	/
5	176.29	/	/	176.25	176.42	176.46	176.42	176.47	176.47	176.39	176.35*	/
6	176.25	/	/	176.24	176.35	176.35	176.38	176.48	176.39	176.44	/	/
7	176.19	/	/	176.23	176.36	176.40	176.42	176.47	176.55	176.58	176.44*	/
8	176.27	/	/	176.35	176.27	176.48	176.41	176.38	176.47	176.52	176.20	/
9	176.31	/	/	176.26	176.21	176.49	176.46	176.51	176.50	176.40	176.38	/
10	176.37*	/	/	176.21	176.38*	176.38	176.55	176.50	176.38	176.45	176.39	/
11	/	/	/	176.19	176.21	176.36	176.49	176.47	176.48	176.41	176.44	/
12	/	/	/	176.26	176.29	176.44	176.44	176.43	176.75	176.41	176.50	/
13	/	/	/	176.24	176.38	176.57	176.40	176.43	176.47	176.59	176.27	/
14	/	/	/	176.34	176.43	176.47	176.49	176.45	176.32	176.56	176.26	/
15	/	/	176.18*	176.33	176.54	176.44	176.47	176.42	176.40	176.50	176.41	/
16	/	/	176.23	176.35	176.48	176.36	176.55	176.21	176.53	176.58	176.42	/
17	/	/	176.20	176.31	176.45	176.40	176.47	176.51	176.56	176.42	176.36*	/
18	/	/	176.16	176.32	176.42	176.48	176.40	176.42	176.57	176.42	176.27*	/
19	/	/	176.24	176.32	176.38	176.47	176.42	176.40	176.46	176.44	176.41	/
20	/	/	176.25	176.45	176.42	176.43	176.51	176.50	176.50	176.45	176.55	/
21	/	/	176.19	176.42	176.46	176.45	176.50	176.45	176.58	176.38	176.36	/
22	/	/	176.21	176.35	176.41	176.46	176.46	176.42	176.57	176.48	176.38	/
23	/	/	176.24	176.32	176.42	176.50	176.50	176.45	176.50	176.56	176.33	/
24	/	/	176.29	176.33	176.44	176.45	176.52	176.51	176.50	176.31	176.34	/
25	/	/	176.28	176.50	176.44	176.39	176.44	176.50	176.60	176.31	176.44	/
26	/	/	176.22	176.41	176.43	176.39	176.43	176.49	176.36	176.49	176.48	/
27	/	/	176.22	176.35	176.41	176.46	176.52	176.45	176.55	176.39	176.40	/
28	/	/	176.20	176.35	176.42	176.47	176.52	176.37	176.50	176.54	176.21	/
29	/		176.26	176.44	176.41*	176.47	176.51	176.49	176.44	176.47	176.17*	/
30	/		176.21	176.43	176.35*	176.53	176.56	176.52	176.40	176.31	176.35	/
31	/		176.22		176.42		176.48	176.51		176.49		/
MEAN	176.27	/	176.22	176.31	176.40	176.44	176.47	176.46	176.49	176.45	176.37	176.37
MAX.	176.44		176.39	176.67	176.75	176.69	176.80	176.71	177.04	176.75	176.67	176.43
	2030/10		1053/24	1520/29	1655/04	2120/02	1711/29	1730/24	0800/12	1000/23	0015/12	0700/01
MIN.	176.10		176.05	176.03	176.02	176.26	176.17	176.07	176.18	176.18	176.11	176.29
	1500/02		2200/18	0848/01	1728/11	0330/12	0810/08	0830/19	1300/26	0131/19	0958/14	0100/01

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

ANNUAL MEAN: 176.39

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.50	Sep	Monthly mean elevation:	176.22	Mar
Daily mean elevation:	176.75	12 Sep	Daily mean elevation:	175.89	4 Dec
Instant/hourly elevation:	177.03	0800/12 Sep	Instant/hourly elevation:	175.34	2300/17 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.41	14 Jan
176.30	13 Feb
176.30	24 Mar
176.50	25 Apr
176.54	15 May
176.58	13 Jun
176.57	10 Jul
176.53	3 Aug
176.75	12 Sep
176.60	13 Oct
176.56	20 Nov
176.41	18 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.19	7 Jan
176.19	17 Feb
176.15	9 Mar
176.15	1 Apr
176.20	9 May
176.35	16 Jun
176.39	18 Jul
176.21	16 Aug
176.32	14 Sep
176.29	30 Oct
176.07	29 Nov
175.89	4 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													176.65	1
176.60									1				176.60	2
176.55						1	3		6	5	1		176.55	18
176.50					1	2	7	6	6	4	1		176.50	45
176.45				1	3	12	9	11	8	5	4		176.45	98
176.40	1			5	14	7	9	11	2	10	7	1	176.40	165
176.35	1			1	9	6	3	2	5	4	6	6	176.35	208
176.30	4			12		2			1		3	6	176.30	236
176.25	8	8	3	3	2					3	2	5	176.25	270
176.20	2	15	16	5	1			1				6	176.20	316
176.15	1	5	11	2	1						2	4	176.15	342
176.10			1	1							1	1	176.10	346
176.05											2	1	176.05	349
176.00													176.00	349
175.95													175.95	349
175.90													175.90	349
175.85												1	175.85	350
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.30	176.26*	176.23	176.15	176.43	176.43	176.44	176.49	176.46	176.53	/	176.38
2	176.21	176.26	176.22	176.33	176.39	176.44	176.50	176.41	176.38	176.50	176.46*	176.40
3	176.31	176.27	176.21	176.17	176.37	176.44	176.57	176.53	176.56	176.38	176.40	176.35
4	176.24	176.24	176.24	176.21	176.50	176.41	176.51	176.48	176.46	176.40	176.43	175.89
5	176.30	176.24	176.20	176.26	176.44	176.46	176.45	176.46	176.46	176.42	176.36	176.18
6	176.26	176.28	176.20	176.25	176.36	176.35	176.40	176.47	176.38	176.44	176.47	176.38
7	176.19	176.30	176.22	176.22	176.37	176.40	176.44	176.46	176.55	176.59	176.48	176.40
8	176.27	176.27	176.20	176.35	176.26	176.48	176.44	176.37	176.47	176.53	176.19	176.36
9	176.32	176.25	176.15	176.26	176.20	176.49	176.48	176.51	176.50	176.42	176.38	176.27
10	176.38	176.25	176.23	176.21	176.37	176.37	176.57	176.50	176.37	176.45	176.39	176.27
11	176.30	176.24	176.17	176.19	176.21	176.36	176.51	176.47	176.47	176.43	176.45	176.25
12	176.35	176.26	176.21	176.26	176.30	176.44	176.44	176.43	176.75	176.42	176.51	176.21
13	176.34	176.30	176.20	176.24	176.38	176.58	176.39	176.43	176.48	176.60	176.27	176.24
14	176.41	176.22	176.18	176.34	176.44	176.48	176.48	176.45	176.32	176.57	176.26	176.13
15	176.26	176.19	176.24	176.34	176.54	176.45	176.47	176.41	176.40	176.51	176.42	176.17
16	176.27	176.19	176.23	176.36	176.48	176.35	176.54	176.21	176.55	176.59	176.42	176.31
17	176.29	176.19	176.20	176.32	176.45	176.40	176.46	176.51	176.58	176.42	176.10	176.32
18	/	176.23	176.16	176.33	176.42	176.49	176.39	176.42	176.60	176.42	176.14	176.41
19	/	176.22	176.23	176.33	176.40	176.48	176.41	176.41	176.48	176.44	176.42	176.35
20	/	176.20	176.25	176.45	176.45	176.44	176.50	176.51	176.51	176.45	176.56	176.26
21	/	176.24	176.19	176.42	176.49	176.46	176.49	176.45	176.60	176.37	176.37	176.17
22	/	176.23	176.21	176.35	176.42	176.46	176.45	176.42	176.57	176.47	176.38	176.10
23	/	176.20	176.23	176.32	176.43	176.51	176.48	176.45	176.51	176.56	176.33	176.33
24	/	176.21	176.30	176.33	176.44	176.47	176.51	176.52	176.51	176.30	176.35	176.25
25	/	176.23	176.28	176.50	176.43	176.40	176.42	176.49	176.61	176.30	176.45	176.24
26	/	176.23	176.22	176.41	176.42	176.40	176.42	176.48	176.40	176.50	176.49	176.30
27	/	176.22	176.22	176.35	176.40	176.46	176.51	176.44	176.57	176.38	176.41	176.27
28	/	176.21	176.20	176.35	176.41	176.48	176.51	176.36	176.53	176.54	176.20	176.33
29	/		176.26	176.44	176.41	176.49	176.51	176.48	176.45	176.47	176.07	176.24
30	/		176.20	176.43	176.37	176.55	176.56	176.51	176.41	176.29	176.35	176.20
31	/		176.23		176.44		176.47	176.50		176.48*		176.38
MEAN	176.29	176.24	176.22	176.32	176.40	176.45	176.47	176.45	176.50	176.46	176.36	176.27
MAX.	176.54	176.37	176.37	176.62	176.75	176.66	176.77	176.70	177.03	176.75	176.67	176.56
	0400/14	1400/13	1200/24	1600/29	1700/04	2200/02	1900/29	1800/24	0800/12	1000/23	2400/11	1700/18
MIN.	176.11	176.16	176.06	176.05	176.04	176.26	176.24	176.09	176.23	176.19	175.34	175.72
	1500/02	2300/16	2200/18	0900/01	1700/11	0500/12	0900/08	0900/19	0400/10	1700/24	2300/17	1300/04

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

/ Indicates No Data.

ANNUAL MEAN: 176.37

ANNUAL SUMMARY OF LEVELS, 1978
Station 5059: Harrisville, Michigan on Lake Huron

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.46	Oct	Monthly mean elevation:	176.18	Mar
Daily mean elevation:	176.51	12 Oct	Daily mean elevation:	176.10	13 Mar
Instant/hourly elevation:	176.66	0728/18 Jun	Instant/hourly elevation:	176.02	1603/4 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.29	28 Jan
176.24	6 Feb
176.23	19 Mar
176.31	28 Apr
176.40	31 May
176.46	13 Jun
176.49	28 Jul
176.49	20 Aug
176.51	27 Sep
176.51	12 Oct
176.44	9 Nov
176.40	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.21	24 Jan
176.21	5 Feb
176.10	13 Mar
176.13	3 Apr
176.26	8 May
176.38	16 Jun
176.41	2 Jul
176.41	28 Aug
176.34	14 Sep
176.40	30 Oct
176.27	17 Nov
176.20	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.
176.50									4	2			176.50	6
176.45						1	7	10	13	15			176.45	52
176.40						21	24	21	9	13	6		176.40	146
176.35					17	8			2	1	11	5	176.35	190
176.30				3	8				2		10	13	176.30	226
176.25	3			14	6						3	8	176.25	260
176.20	13	4	3	7								3	176.20	290
176.15			14	3								2	176.15	309
176.10			1	3									176.10	313
176.05			1										176.05	314
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5059: Harrisville, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	/	176.15	176.33	176.38	176.42	176.45	176.45	176.51	176.42	176.36
2	/	/	/	176.22	176.34	176.40	176.41	176.44	176.46	176.50	176.44	176.36
3	/	/	/	176.13*	176.32	176.39	176.43	176.46	176.46	176.46	176.38	176.28
4	/	176.21*	/	176.14*	176.29	176.40	176.44	176.48	176.45	176.48	176.39	176.31
5	/	176.21	/	176.23	176.29	176.42	176.42	176.47	176.46	176.47	176.36	176.40
6	/	176.24	/	176.18	176.32	176.40	176.42	176.46	176.46	176.43	176.42	176.38
7	/	176.23*	/	176.21	176.30	176.40	176.43	176.44	176.46	176.50	176.39	176.32
8	/	/	/	176.27	176.26	176.42	176.44	176.45	176.40	176.49	176.38	176.31
9	/	/	/	176.20	176.30	176.43	176.44	176.47	176.41	176.47	176.44	176.34
10	/	/	/	176.17	176.34	176.41	176.47	176.46	176.37	176.46	176.35	176.34
11	/	/	/	176.23	176.29	176.42	176.46	176.44	176.42	176.46	176.35	176.30
12	/	/	/	176.28	176.32	176.42	176.44	176.42	176.43	176.51	176.35	176.32
13	/	/	176.10*	176.27	176.32	176.46	176.44	176.43	176.35	176.50	176.32	176.34
14	/	/	176.12	176.31	176.35	176.43	176.44	176.43	176.34	176.45	176.39	176.37
15	/	/	176.18	176.30	176.38	176.40	176.44	176.41	176.46	176.47	176.42	176.32
16	176.24*	/	176.17	176.28	176.38	176.38	176.46	176.41	176.47	176.44	176.35	176.31
17	176.24	/	176.18	176.28	176.38	176.41	176.43	176.48	176.45	176.45	176.27	176.34
18	176.22	/	176.19	176.24	176.37	176.43	176.42	176.43	176.45	176.47	176.35	176.33
19	176.24	/	176.23	176.24	176.39	176.43	176.42	176.46	176.42	176.45	176.43	176.28
20	176.24	/	176.20	176.28	176.39	176.42	176.42	176.49	176.47	176.45	176.38	176.23
21	176.22	/	176.17	176.31	176.39	176.45	176.45	176.45	176.50	176.44	176.35	176.24
22	176.22	/	176.20	176.30	176.38	176.45	176.45	176.45	176.51	176.44	176.36	176.29
23	176.22	/	176.20	176.25	176.37	176.44	176.46	176.43	176.50	176.44	176.34	176.32
24	176.21	/	176.21	176.27	176.38	176.42	176.47	176.45	176.51	176.43	176.38	176.23
25	176.23	/	176.17	176.29	176.38	176.41	176.44	176.44	176.51	176.46	176.39	176.26
26	176.28	/	176.16	176.29	176.38	176.42	176.45	176.43	176.49	176.43	176.34	176.31
27	176.26	/	176.18	176.30	176.38	176.45	176.47	176.41	176.51	176.44	176.29	176.29
28	176.29	/	176.20	176.31	176.37	176.45	176.49	176.41	176.47	176.47	176.30	176.28
29	176.25		176.22	176.30	176.36	176.45	176.45	176.48	176.47	176.43	176.34	176.20
30	176.25		176.20	176.30	176.36	176.44	176.45	176.45	176.41	176.40	176.40	176.20
31	176.23*		176.18		176.40		176.44	176.44		176.46		176.27
MEAN	176.24	176.22	176.18	176.25	176.35	176.42	176.44	176.45	176.45	176.46	176.37	176.30
MAX.	176.52	176.27	176.31	176.37	176.48	176.66	176.57	176.57	176.63	176.58	176.50	176.45
	0725/26	2105/05	2305/19	1354/14	1536/20	0728/18	1920/26	0400/19	0247/12	2340/12	1005/02	1355/05
MIN.	176.14	176.17	176.03	176.02	176.17	176.12	176.30	176.29	176.26	176.34	176.12	176.06
	2000/24	1343/05	0125/14	1603/04	2126/08	0643/18	0315/21	0743/16	2250/13	0315/30	2117/17	2035/20

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

ANNUAL MEAN: 176.34

ANNUAL SUMMARY OF LEVELS, 1978

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.49	Sep	176.19	Mar
Daily mean elevation:	176.58	26 Sep	176.09	26 Jan
Instant/hourly elevation:	176.71	1400/26 Sep	175.99	1700/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.29	23 Jan
176.26	15 Feb
176.26	18 Mar
176.32	19 Apr
176.43	30 May
176.48	11 Jun
176.51	25 Jul
176.50	29 Aug
176.58	26 Sep
176.54	24 Oct
176.52	8 Nov
176.43	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.09	26 Jan
176.17	6 Feb
176.15	25 Mar
176.15	1 Apr
176.29	4 May
176.42	14 Jun
176.44	15 Jul
176.44	19 Aug
176.44	12 Sep
176.39	31 Oct
176.36	30 Nov
176.22	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.
176.55									1				176.55	1
176.50							1		8	7	1		176.50	18
176.45						14	22	25	15	14	1		176.45	109
176.40					14	16	8	6	6	9	13	2	176.40	183
176.35					8					1	15	4	176.35	211
176.30				6	5							12	176.30	234
176.25	8	1	1	15	4							11	176.25	274
176.20	12	10	6	7								2	176.20	311
176.15	8	17	22	1									176.15	359
176.10	2		2	1									176.10	364
176.05	1												176.05	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5080: Mackinaw City, Michigan on Straits of Mackinac

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.23	176.23	176.19	176.15	176.30	176.44	176.47	176.47	176.50	176.47	176.45	176.36
2	176.27	176.22	176.20	176.19	176.30	176.43	176.45	176.48	176.51	176.49	176.42	176.34
3	176.27	176.22	176.18	176.21	176.31	176.42	176.45	176.47	176.44	176.52	176.42	176.38
4	176.27	176.25	176.19	176.21	176.29	176.43	176.47	176.49	176.48	176.52	176.41	176.43
5	176.23	176.18	176.20	176.23	176.31	176.43	176.49	176.50	176.47	176.50	176.44	176.41
6	176.27	176.17	176.19	176.23	176.31	176.45	176.50	176.47	176.49	176.47	176.40	176.33
7	176.27	176.18	176.18	176.22	176.30	176.44	176.49	176.46	176.45	176.47	176.41	176.33
8	176.20	176.20	176.19	176.22	176.36	176.43	176.48	176.49	176.44	176.48	176.52	176.33
9	176.11	176.20	176.21	176.24	176.37	176.42	176.48	176.45	176.45	176.51	176.39	176.35
10	176.14	176.23	176.19	176.27	176.34	176.46	176.45	176.45	176.45	176.48	176.41	176.35
11	176.24	176.20	176.20	176.29	176.40	176.48	176.45	176.45	176.46	176.52	176.38	176.34
12	176.26	176.20	176.19	176.30	176.38	176.42	176.48	176.46	176.44	176.50	176.39	176.39
13	176.20	176.19	176.20	176.29	176.34	176.43	176.48	176.46	176.48	176.45	176.45	176.29
14	176.17	176.23	176.17	176.29	176.38	176.42	176.46	176.46	176.53	176.45	176.43	176.39
15	176.21	176.26	176.20	176.28	176.38	176.44	176.44	176.47	176.52	176.46	176.39	176.35
16	176.22	176.24	176.19	176.28	176.38	176.47	176.45	176.50	176.46	176.45	176.38	176.32
17	176.20	176.23	176.18	176.27	176.40	176.45	176.45	176.45	176.47	176.51	176.44	176.27
18	176.21	176.20	176.26	176.26	176.41	176.46	176.49	176.47	176.50	176.45	176.42	176.29
19	176.20	176.21	176.16	176.32	176.42	176.46	176.47	176.44	176.52	176.47	176.37	176.27
20	176.20	176.20	176.22	176.29	176.41	176.47	176.45	176.46	176.51	176.48	176.36	176.34
21	176.22	176.19	176.19	176.27	176.41	176.46	176.47	176.48	176.49	176.50	176.37	176.28
22	176.26	176.20	176.21	176.30	176.41	176.46	176.48	176.47	176.50	176.43	176.37	176.35
23	176.29	176.21	176.15	176.31	176.41	176.45	176.47	176.48	176.54	176.43	176.38	176.31
24	176.25	176.20	176.16	176.29	176.41	176.45	176.48	176.46	176.51	176.54	176.38	176.30
25	176.21	176.19	176.15	176.29	176.41	176.46	176.51	176.46	176.48	176.50	176.38	176.25
26	176.09	176.19	176.18	176.30	176.42	176.47	176.50	176.46	176.58	176.44	176.38	176.27
27	176.16	176.20	176.20	176.31	176.42	176.46	176.46	176.49	176.47	176.47	176.41	176.27
28	176.22	176.19	176.21	176.31	176.42	176.47	176.49	176.49	176.50	176.42	176.41	176.26
29	176.20		176.17	176.31	176.43	176.46	176.47	176.50	176.51	176.44	176.48	176.30
30	176.25		176.22	176.31	176.43	176.46	176.46	176.45	176.49	176.51	176.36	176.27
31	176.23		176.22		176.42		176.48	176.46		176.39		176.22
MEAN	176.22	176.21	176.19	176.27	176.38	176.45	176.47	176.47	176.49	176.47	176.41	176.32
MAX.	176.42	176.28	176.39	176.37	176.48	176.61	176.59	176.60	176.71	176.63	176.59	176.61
	0500/04	1700/04	1900/18	1000/12	1500/11	1400/16	2000/26	1700/16	1400/26	1500/24	1900/17	2000/04
MIN.	175.99	176.09	176.04	176.03	176.21	176.29	176.39	176.27	176.37	176.35	176.26	176.15
	1700/26	2400/05	2200/23	1600/01	1600/04	2200/17	1600/21	1200/19	0600/11	0200/31	0200/30	2000/31

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

/ Indicates No Data.

ANNUAL MEAN: 176.36

ANNUAL SUMMARY OF LEVELS, 1978
Station 5098: DeTour, Michigan on Lake Huron

INTERNATIONAL
GREAT LAKES
DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.46	Oct	176.22	Jan
Daily mean elevation:	176.53	26 Sep	176.13	14 Jan
Instant/hourly elevation:	176.61	0940/25 Oct	175.97	0400/18 Nov

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.33	12 Jan
	Feb
	Mar
176.31	29 Apr
176.40	31 May
176.46	11 Jun
176.47	7 Jul
176.48	29 Aug
176.53	26 Sep
176.52	25 Oct
176.47	8 Nov
176.42	14 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.13	14 Jan
	Feb
	Mar
176.19	6 Apr
176.39	30 May
176.38	8 Jun
176.40	2 Jul
176.40	19 Aug
176.39	13 Sep
176.39	23 Oct
176.29	11 Nov
176.20	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.
176.50									1	2			176.50	3
176.45						1	3	5	15	15	2		176.45	44
176.40						23	12	25	11	11	6	2	176.40	134
176.35					8	6	1	1	3	3	11	5	176.35	172
176.30	2			3							10	10	176.30	197
176.25	4			12							1	9	176.25	223
176.20	8			7								1	176.20	239
176.15	9			3								2	176.15	253
176.10	3												176.10	256
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5098: DeTour, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.18	/	/	/	/	176.41	176.41	176.45	176.47	176.46	176.43	176.36
2	176.24	/	/	/	/	176.39	176.40	176.46	176.49	176.48	176.45	176.34
3	176.30	/	/	/	/	176.41	176.42	176.45	176.44	176.49	176.42	176.35
4	176.29	/	/	/	/	176.40	176.44	176.47	176.44	176.50	176.41	176.35
5	176.25	/	/	176.23*	/	176.40	176.46	176.47	176.46	176.52	176.42	176.42
6	176.24	/	/	176.19*	/	176.44	176.47	176.44	176.46	176.41	176.38	176.38
7	176.23	/	/	176.20*	/	176.42	176.47	176.42	176.45	176.46	176.40	176.34
8	176.20	/	/	176.24	/	176.38	176.45	176.45	176.39	176.46	176.47	176.30
9	176.13	/	/	176.22	/	176.41	176.45	176.42	176.43	176.49	176.44	176.34
10	176.16	/	/	176.20	/	176.44	176.41	176.43	176.41	176.47	176.37	176.37
11	176.31	/	/	176.24	/	176.46	176.45	176.42	176.44	176.49	176.29	176.36
12	176.33	/	/	176.30	/	176.39	176.45	176.42	176.39	176.49	176.31	176.38
13	176.20	/	/	176.27	/	176.40	176.45*	176.43	176.39	176.45	176.39	176.30
14	176.13	/	/	176.31	/	176.41	/	176.44	176.42	176.41	176.35	176.42
15	176.20	/	/	176.29	/	176.41	/	176.44	176.48	176.45	176.40	176.35
16	176.24	/	/	176.27	/	176.42	/	176.45	176.46	176.40	176.34	176.35
17	176.20	/	/	176.27	/	176.43	/	176.44	176.44	176.46	176.38	176.27
18	176.20	/	/	176.24	/	176.44	/	176.45	176.45	176.45	176.32	176.31*
19	176.21	/	/	176.22	/	176.44	/	176.40	176.43	176.43	176.38	176.24*
20	176.18	/	/	176.24	/	176.44	/	176.45	176.46	176.47	176.35	176.27
21	176.20	/	/	176.26	/	176.43	/	176.44	176.46	176.48	176.35	176.20
22	176.25	/	/	176.30	/	176.44	/	176.44	176.48	176.42	176.37	176.32
23	176.30	/	/	176.26	/	176.42	/	176.46	176.50	176.39	176.37	176.33
24	176.27	/	/	176.26	176.40*	176.42	/	176.45	176.49	176.49	176.35	176.28
25	176.22	/	/	176.26	176.39	176.43	/	176.44	176.46	176.52	176.38	176.20
26	176.15*	/	/	176.28	176.39	176.43	/	176.44	176.53	176.43	176.32	176.30
27	/	/	/	176.29	176.39	176.44	/	176.45	176.48	176.44	176.31	176.29*
28	/	/	/	176.31	176.40	176.45	/	176.45	176.47	176.43	176.34	176.30
29	/		/	176.31*	176.40	176.44	176.43*	176.48	176.50	176.45	176.46	176.30*
30	/		/	/	176.39	176.43	176.43	176.44	176.45	176.48	176.38	/
31	/		/		176.40		176.45	176.43		176.40		/
MEAN	176.22	/	/	176.26	176.40	176.42	176.44	176.44	176.45	176.46	176.38	176.32
MAX.	176.43			176.37	176.46	176.52	176.55	176.56	176.60	176.61	176.58	176.51
	0557/04			1112/12	1542/30	0430/27	1854/05	1924/17	1427/26	0940/25	1035/29	2130/04
MIN.	176.00			176.14	176.32	176.27	176.31	176.27	176.30	176.32	175.97	176.09
	2342/09			0320/11	0530/28	1745/12	0227/10	1205/19	2228/14	2045/22	0400/18	0600/21

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

ANNUAL MEAN: 176.38

ANNUAL SUMMARY OF LEVELS, 1978
Station 5099: DeTour Village, Michigan on Lake Huron

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.45	Oct	Monthly mean elevation:	176.19	Mar
Daily mean elevation:	176.53	26 Sep	Daily mean elevation:	176.08	26 Jan
Instant/hourly elevation:	176.59	0900/25 Oct	Instant/hourly elevation:	175.95	1700/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.34	12 Jan
176.25	15 Feb
176.25	20 Mar
176.31	28 Apr
176.40	31 May
176.45	28 Jun
176.48	26 Jul
176.47	29 Aug
176.53	26 Sep
176.52	5 Oct
176.48	8 Nov
176.42	14 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.08	26 Jan
176.14	6 Feb
176.13	14 Mar
176.10	1 Apr
176.25	4 May
176.39	13 Jun
176.40	2 Jul
176.39	19 Aug
176.38	13 Sep
176.39	23 Oct
176.29	27 Nov
176.21	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.
176.50									1	2			176.50	3
176.45							6	4	12	15	2		176.45	42
176.40						21	24	26	14	10	7	1	176.40	145
176.35					18	9	1	1	3	4	10	6	176.35	197
176.30	2			1	4						8	9	176.30	221
176.25	4			14	8						3	8	176.25	258
176.20	10	14	10	9	1							7	176.20	309
176.15	10	13	19	5									176.15	356
176.10	4	1	2										176.10	363
176.05	1			1									176.05	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 5099: DeTour Village, Michigan on Lake Huron

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.20	176.25	176.17	176.10	176.26	176.40	176.41	176.44	176.46	176.46	176.43	176.36
2	176.25	176.21	176.21	176.20	176.29	176.39	176.40	176.45	176.48	176.48	176.45	176.34
3	176.29	176.22	176.16	176.17	176.30	176.40	176.41	176.44	176.43	176.49	176.41	176.32
4	176.29	176.24	176.18	176.17	176.25	176.40	176.44	176.46	176.44	176.50	176.39	176.33
5	176.24	176.19	176.21	176.23	176.26	176.40	176.45	176.47	176.45	176.52	176.41	176.40
6	176.23	176.14	176.17	176.21	176.30	176.43	176.47	176.45	176.46	176.41	176.39	176.36
7	176.21	176.17	176.18	176.17	176.29	176.42	176.47	176.43	176.44	176.45	176.41	176.33
8	176.19	176.20	176.17	176.23	176.30	176.39	176.45	176.46	176.38	176.46	176.48	176.29
9	176.12	176.19	176.20	176.21	176.33	176.41	176.45	176.42	176.42	176.49	176.45	176.34
10	176.15	176.23	176.19	176.20	176.35	176.43	176.41	176.43	176.41	176.47	176.37	176.36
11	176.31	176.20	176.19	176.24	176.37	176.45	176.44	176.42	176.43	176.49	176.30	176.35
12	176.34	176.21	176.18	176.30	176.36	176.39	176.45	176.42	176.38	176.48	176.33	176.38
13	176.20	176.21	176.20	176.27	176.30	176.39	176.44	176.43	176.38	176.45	176.40	176.29
14	176.12	176.20	176.13	176.30	176.33	176.41	176.44	176.43	176.42	176.41	176.36	176.42
15	176.19	176.25	176.19	176.28	176.35	176.40	176.41	176.43	176.48	176.44	176.42	176.38*
16	176.23	176.23	176.17	176.27	176.36	176.41	176.42	176.45	176.45	176.39	176.37	176.32*
17	176.19	176.23	176.16	176.26	176.39	176.42	176.42	176.44	176.43	176.47	176.39	176.21*
18	176.19	176.20	176.25	176.24	176.40	176.43	176.45	176.44	176.43	176.46	176.33	176.24*
19	176.20	176.22	176.16	176.22	176.40	176.44	176.45	176.39	176.43	176.44	176.37	176.24
20	176.17	176.20	176.25	176.24	176.39	176.43	176.42	176.45	176.47	176.47	176.34	176.27
21	176.19	176.18	176.16	176.26	176.39	176.43	176.44	176.44	176.47	176.47	176.34	176.21
22	176.24	176.20	176.21	176.30	176.40	176.44	176.45	176.44	176.48	176.42	176.35	176.33
23	176.29	176.21	176.15	176.26	176.38	176.42	176.43	176.44	176.50	176.39	176.35	176.35
24	176.26	176.21	176.22	176.26	176.39	176.42	176.47	176.43	176.49	176.49	176.34	176.29
25	176.20	176.17	176.20	176.27	176.39	176.43	176.46	176.43	176.45	176.51	176.37	176.21
26	176.08	176.18	176.19	176.28	176.40	176.43	176.48	176.43	176.53	176.42	176.30	176.30
27	176.13	176.21	176.21	176.30	176.39	176.44	176.43	176.45	176.47	176.44	176.29	176.28
28	176.22	176.17	176.21	176.31	176.39	176.45	176.47	176.44	176.47	176.40	176.33	176.29
29	176.21		176.18	176.29	176.39	176.44	176.44	176.47	176.50	176.42	176.47	176.29
30	176.25		176.21	176.24	176.39	176.42	176.42	176.44	176.45	176.47	176.38	176.23
31	176.22		176.22		176.40		176.44	176.42		176.40		176.22
MEAN	176.21	176.20	176.19	176.24	176.35	176.42	176.44	176.44	176.45	176.45	176.38	176.31
MAX.	176.42	176.27	176.33	176.36	176.48	176.49	176.57	176.54	176.57	176.59	176.56	176.47
	0600/04	0200/18	1900/18	1100/12	1500/30	2400/11	2000/22	0100/28	1400/26	0900/25	1000/29	1200/14
MIN.	176.00	176.09	176.03	175.95	176.20	176.30	176.35	176.30	176.34	176.32	176.05	176.10
	2400/09	2400/05	2200/23	1700/01	2300/04	1800/12	0300/10	1200/19	2200/14	1800/06	0400/18	0300/17

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

ANNUAL MEAN: 176.34

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.80	Jan	176.53	Dec
Daily mean elevation:	176.95	12 Jan	176.38	1 May
Instant/hourly elevation:	176.98	0910/12 Jan	176.25	1224/21 Dec

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.95	12 Jan
176.82	15 Feb
176.77	20 Mar
176.68	22 Apr
176.63	30 May
176.70	11 Jun
176.74	25 Jul
176.79	27 Aug
176.83	26 Sep
176.85	5 Oct
176.82	29 Nov
176.68	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.60	1 Jan
176.75	28 Feb
176.68	29 Mar
176.42	30 Apr
176.38	1 May
176.56	13 Jun
176.59	10 Jul
176.62	19 Aug
176.71	12 Sep
176.67	23 Oct
176.61	24 Nov
176.39	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.
176.90	2												176.90	2
176.85	5												176.85	7
176.80	13	7							3	3	1		176.80	39
176.75	3	18	2					4	18	9	3		176.75	96
176.70	2	3	20				10	14	9	10	7		176.70	171
176.65	4		9	5		11	17	10		4	8	1	176.65	240
176.60	1			13	13	11	3	3			11	3	176.60	298
176.55	1			5	9	4	1					8	176.55	326
176.50				4	5							9	176.50	344
176.45				2	2							6	176.45	354
176.40				1	1							2	176.40	358
176.35					1							2	176.35	361
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.60	176.82	176.74	176.66	176.38	176.67	176.67	176.67	176.77	176.74	176.73	176.63
2	176.63	176.81	176.75	176.61	176.45	176.58	176.67	176.70	176.80	176.80	176.74	176.60
3	176.70	176.80	176.74	176.61	176.50	176.63	176.66	176.64	176.74	176.84	176.73	176.63
4	176.74	176.80	176.73	176.61	176.51	176.63	176.68	176.69	176.73	176.81	176.71	176.60
5	176.69	176.81	176.76	176.61	176.48	176.61	176.70	176.72	176.78	176.85	176.74	176.68
6	176.70	176.76	176.74	176.61	176.51	176.68	176.71	176.69	176.77	176.74	176.67	176.63
7	176.76	176.77	176.73	176.58	176.52	176.65	176.72	176.68	176.77	176.70	176.70	176.58
8	176.82	176.77	176.71	176.60	176.58	176.59	176.66	176.70	176.71	176.74	176.80	176.49
9	176.84	176.78	176.72	176.59	176.55	176.60	176.70	176.63	176.76	176.78	176.77	176.54
10	176.86	176.80	176.72	176.58	176.55	176.68	176.59	176.66	176.74	176.79	176.70	176.56
11	176.95	176.80	176.72	176.60	176.63	176.70	176.66	176.70	176.73	176.82	176.62	176.58
12	176.95	176.79	176.71	176.66	176.63	176.61	176.70	176.73	176.71	176.82	176.63	176.58
13	176.88	176.79	176.72	176.65	176.57	176.56	176.68	176.72	176.76	176.77	176.76	176.49
14	176.69	176.79	176.70	176.67	176.58	176.61	176.70	176.74	176.82	176.74	176.67	176.59
15	176.74	176.82	176.70	176.68	176.60	176.65	176.63	176.74	176.77	176.76	176.72	176.53
16	176.86	176.81	176.70	176.65	176.60	176.69	176.65	176.76	176.76	176.74	176.68	176.52
17	176.83	176.80	176.69	176.63	176.59	176.68	176.68	176.69	176.76	176.78	176.75	176.41
18	176.81	176.81	176.73	176.63	176.62	176.66	176.72	176.74	176.78	176.77	176.67	176.47
19	176.84	176.81	176.74	176.62	176.63	176.68	176.71	176.62	176.77	176.74	176.65	176.40
20	176.82	176.79	176.77	176.61	176.60	176.69	176.67	176.69	176.77	176.77	176.65	176.49
21	176.82	176.76	176.73	176.64	176.58	176.63	176.67	176.71	176.74	176.79	176.64	176.41
22	176.85	176.76	176.73	176.68	176.63	176.64	176.69	176.71	176.77	176.74	176.65	176.54
23	176.88	176.78	176.74	176.62	176.62	176.65	176.66	176.77	176.80	176.67	176.67	176.53
24	176.87	176.77	176.72	176.52	176.61	176.67*	176.72	176.74	176.77	176.81	176.61	176.52
25	176.82	176.76	176.71	176.50	176.62	/	176.74	176.74	176.73	176.84	176.66	176.39
26	176.80	176.75	176.68	176.51	176.63	/	176.73	176.74	176.83	176.74	176.63	176.48
27	176.77	176.75	176.69	176.52	176.63	/	176.63	176.79	176.77	176.75	176.63	176.48
28	176.81	176.75	176.71	176.52	176.63	/	176.71	176.77	176.75	176.68	176.63	176.51
29	176.81		176.68	176.50	176.63	176.64*	176.71	176.75	176.81	176.74	176.82	176.56
30	176.82		176.69	176.42	176.63	176.67	176.69	176.73	176.79	176.81	176.65	176.54
31	176.83		176.69		176.59		176.71	176.73		176.70		176.53
MEAN	176.80	176.79	176.72	176.60	176.58	176.64	176.68	176.71	176.77	176.77	176.69	176.53
MAX.	176.98	176.86	176.82	176.73	176.70	176.75	176.80	176.90	176.90	176.91	176.95	176.77
	0910/12	0605/02	0008/19	1040/22	1130/11	1517/16	0600/29	0400/28	1250/14	1534/24	1110/29	0024/05
MIN.	176.52	176.70	176.65	176.33	176.32	176.48	176.53	176.49	176.65	176.57	176.42	176.25
	0800/14	0710/06	1115/29	1830/30	1500/01	1950/12	1856/27	1740/19	2258/08	1700/28	0744/18	1224/21

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

ANNUAL MEAN: 176.69

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST

Monthly mean elevation:	177.06	Feb
Daily mean elevation:	177.16	12 Jan
Instant/hourly elevation:	177.24	2137/11 Jan

LOWEST

Monthly mean elevation:	176.64	Dec
Daily mean elevation:	176.47	1 May
Instant/hourly elevation:	176.39	1310/1 May

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
177.16	12 Jan
177.10	5 Feb
176.99	3 Mar
176.75	15 Apr
176.75	28 May
176.80	11 Jun
176.83	25 Jul
176.95	28 Aug
176.99	14 Sep
177.02	25 Oct
176.98	29 Nov
176.82	5 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.72	1 Jan
177.00	28 Feb
176.74	31 Mar
176.52	30 Apr
176.47	1 May
176.65	13 Jun
176.70	10 Jul
176.77	9 Aug
176.88	12 Sep
176.85	23 Oct
176.79	28 Nov
176.49	25 Dec

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

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
177.15	2											
177.10												
177.05	10	20								3		
177.00	6	7							6	11	2	
176.95	3	1	6					10	20	13	5	
176.90	1		5					9	4	3	7	
176.85	3		5				9	7		1	11	1
176.80	2		8			14	16	5			5	4
176.75	2		5	8	13	10	5					2
176.70	2		2	13	9	5	1					4
176.65				5	4	1						10
176.60				3	3							6
176.55				1	1							1
176.50					1							3
176.45												

Elev. (m.)	No. of days above elev.
177.15	2
177.10	2
177.05	32
177.00	48
176.95	77
176.90	131
176.85	162
176.80	201
176.75	252
176.70	294
176.65	326
176.60	346
176.55	358
176.50	361
176.45	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.72	177.08	176.98	176.70	176.47	176.77	176.77	176.80	176.94	176.91	176.89	176.80
2	176.75	177.09	176.99	176.73	176.54	176.68	176.77	176.83	176.97	176.97	176.92	176.76
3	176.81	177.07	176.99	176.70	176.58	176.72	176.75	176.77	176.92	177.02	176.89	176.77
4	176.86	177.06	176.97	176.67	176.61	176.73	176.77	176.81	176.90	176.98	176.89	176.74
5	176.80	177.10	176.98	176.68	176.57	176.70	176.79	176.84	176.94	177.02	176.91	176.82
6	176.80	177.06	176.95	176.68	176.60	176.77	176.80	176.81	176.92	176.93	176.85	176.78
7	176.86	177.06	176.96	176.64	176.61	176.76	176.81	176.80	176.94	176.88	176.87	176.71
8	176.92	177.06	176.94	176.68	176.67	176.69	176.76	176.83	176.89	176.91	176.96	176.61
9	177.00	177.07	176.94	176.67	176.65	176.70	176.80	176.77	176.92	176.95	176.95	176.65
10	177.08	177.08	176.92	176.65	176.64	176.77	176.70	176.78	176.92	176.97	176.87	176.67
11	177.16	177.09	176.91	176.66	176.73	176.80	176.75	176.85	176.91	176.99	176.80	176.68
12	177.16	177.09	176.88	176.72	176.74	176.72	176.80	176.89	176.88	177.00	176.81	176.69
13	177.09	177.06	176.87	176.71	176.68	176.65	176.77	176.87	176.93	176.96	176.92	176.61
14	176.85	177.06	176.86	176.74	176.68	176.70	176.78	176.89	176.99	176.93	176.86	176.69
15	176.89	177.08	176.85	176.75	176.70	176.75	176.74	176.90	176.94	176.95	176.89	176.62
16	177.03	177.07	176.84	176.72	176.70	176.77	176.75	176.93	176.93	176.92	176.85	176.60
17	177.00	177.06	176.83	176.70	176.69	176.77	176.78	176.88	176.93	176.96	176.91	176.49
18	177.00	177.07	176.85	176.70	176.71	176.75	176.82	176.93	176.95	176.96	176.84	176.56
19	177.03	177.07	176.87	176.69	176.72	176.76	176.81	176.85	176.93	176.93	176.83	176.50
20	177.02	177.06	176.90	176.69*	176.71	176.77	176.76	176.90	176.94	176.94	176.82	176.60
21	177.03	177.02	176.85	176.71*	176.67	176.72	176.77	176.91	176.91	176.96	176.81	176.52
22	177.06	177.02	176.84	176.74	176.73	176.74	176.80	176.90	176.93	176.93	176.82	176.64
23	177.09	177.03	176.82	176.70	176.72	176.74	176.76	176.95	176.96	176.85	176.84	176.63
24	177.10	177.03	176.82	176.61	176.70	176.76	176.82	176.92	176.95	176.97	176.79	176.62
25	177.07	177.03	176.80	176.60	176.71	176.77	176.83	176.90	176.89	177.02	176.81	176.49
26	177.06	177.01	176.77	176.60	176.73	176.76	176.82	176.91	176.98	176.92	176.79	176.57
27	177.01	177.01	176.76	176.61	176.74	176.74	176.74	176.94	176.95	176.93	176.79	176.58
28	177.06	177.00	176.77	176.63	176.75	176.76	176.81	176.95	176.92	176.87	176.79	176.60
29	177.06		176.74	176.59	176.74	176.75	176.81	176.92	176.98	176.91	176.98	176.64
30	177.05		176.76	176.52	176.74	176.77	176.79	176.91	176.97	176.97	176.82	176.63
31	177.07		176.74		176.70		176.82	176.90		176.88		176.61
MEAN	176.98	177.06	176.87	176.67	176.68	176.74	176.78	176.87	176.93	176.94	176.86	176.64
MAX.	177.24	177.19	177.06	176.85	176.86	176.92	176.90	177.06	177.06	177.09	177.08	176.88
	2137/11	1256/05	2326/09	0852/15	1453/28	1338/10	0600/29	0500/28	1800/29	1200/03	1400/29	2400/04
MIN.	176.63	176.93	176.56	176.39	176.39	176.48	176.63	176.68	176.81	176.81	176.72	176.42
	0730/14	0434/24	1102/15	2033/30	1310/01	1846/13	2000/27	1900/09	0500/19	0900/27	0800/18	0900/17

ANNUAL MEAN: 176.8[illegible]

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

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	183.12	Sep	Monthly mean elevation:	182.78	Mar
Daily mean elevation:	183.26	9 Jan	Daily mean elevation:	182.63	9 Apr
Instant/hourly elevation:	183.43	1404/9 Jan	Instant/hourly elevation:	182.22	1537/9 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.26	9 Jan
182.95	5 Feb
182.86	28 Mar
182.96	1 Apr
183.01	31 May
183.08	12 Jun
183.21	27 Jul
183.21	30 Aug
183.19	21 Sep
183.25	6 Oct
183.12	14 Nov
183.03	6 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.83	6 Jan
182.79	27 Feb
182.67	31 Mar
182.63	9 Apr
182.79	8 May
182.90	10 Jun
182.98	5 Jul
183.04	15 Aug
183.02	13 Sep
182.96	29 Oct
182.85	27 Nov
182.67	29 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	1						1	1		2			183.20	6
183.15							1	4	7	1			183.15	19
183.10	3						10	15	10	8	1		183.10	66
183.05	1					1	9	9	8	15	2		183.05	111
183.00	3				1	12	8	2	5	2	6	3	183.00	153
182.95	6			1	3	12	2			3	12	8	182.95	200
182.90	11	3		4	14	4					5	9	182.90	250
182.85	4	8	1	8	10	1					2	5	182.85	289
182.80	1	14	6	5	2						2	4	182.80	323
182.75		3	18	4	1							1	182.75	350
182.70			4	4									182.70	358
182.65			2	3								1	182.65	364
182.60				1									182.60	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.03	182.92	182.81	182.96	182.95	182.92	182.98	183.11	183.08	183.15	182.99	183.03
2	183.07	182.93	182.79	182.74	182.87	182.99	183.01	183.11	183.14	183.06	183.00	182.98
3	182.96	182.88	182.83	182.70	182.87	182.96	183.02	183.15	183.18	183.12	182.96	182.87
4	183.01	182.83	182.81	182.83	182.86	182.97	183.01	183.13	183.13	183.16	183.00	182.96
5	182.95	182.95	182.78	182.78	182.90	182.97	182.98	183.12	183.08	183.14	182.98	183.00
6	182.83	182.89	182.79	182.66	182.90	182.94	183.01	183.14	183.15	183.25	183.06	183.03
7	182.89	182.88	182.78	182.92	182.85	183.03	183.02	183.09	183.10	183.24	182.96	182.95
8	183.12	182.86	182.77	182.76	182.79	183.01	183.11	183.11	183.15	183.14	182.97	183.01
9	183.26	182.89	182.78	182.63	182.90	183.04	183.11	183.15	183.05	183.10	183.03	183.00
10	183.21	182.88	182.79	182.66	182.86	182.90	183.14	183.12	183.11	183.09	182.94	182.98
11	183.12	182.89	182.78	182.77	182.81	182.96	183.09	183.08	183.02	183.07	183.01	182.93*
12	182.95	182.89	182.78	182.74	182.92	183.08	183.03	183.06	183.10	183.15	182.96	182.88*
13	182.95	182.85	182.74	182.90	182.93	183.04	183.10	183.07	183.02	183.15	182.85	182.95*
14	182.96	182.82	182.81	182.85	182.94	183.00	183.08	183.05	183.06	183.14	183.12	182.92
15	182.96	182.83	182.76	182.82	182.96	182.93	183.14	183.04	183.19	183.10	183.01	182.92*
16	182.93	182.85	182.76	182.77	182.94	182.91	183.09	183.12	183.18	183.08	182.95	182.93*
17	182.91	182.85	182.78	182.74	182.97	182.98	183.05	183.16	183.12	183.06	182.97	182.97*
18	182.91	182.85	182.72	182.71	182.93	183.02	183.04	183.06	183.06	183.12	183.02	182.90
19	182.94	182.80	182.83	182.86	182.91	182.96	183.07	183.16	183.04	183.10	183.10	182.84
20	182.92	182.84	182.70	182.92	182.99	182.97	183.14	183.10	183.18	183.06	182.97	182.78
21	182.92	182.82	182.78	182.90	182.95	183.02	183.14	183.07	183.19	183.02	183.00	182.84
22	182.90	182.79	182.77	182.85	182.90	183.04	183.14	183.12	183.13	183.06	182.96	182.84
23	182.90	182.83	182.85	182.81	182.91	183.00	183.15	183.08	183.10	183.08	182.95	182.88
24	182.92	182.81	182.77	182.88	182.92	182.99	183.08	183.13	183.18	182.98	183.03	182.90
25	182.90	182.84	182.76	182.90	182.90	182.98	183.07	183.14	183.14	183.09	182.94	182.97
26	183.11	182.83	182.76	182.88	182.88	183.01	183.11	183.12	183.10	183.09	182.89	182.91
27	183.04	182.79	182.74	182.88	182.91	183.04	183.21	183.06	183.17	183.08	182.85	182.98
28	183.00	182.81	182.86	182.89	182.93	183.02	183.10	183.18	183.12	183.10	182.90	182.85
29	182.97		182.79	182.93	182.91	183.05	183.16	183.20	183.05	182.96	182.94	182.67
30	182.93		182.73	182.93	182.92	183.01	183.11	183.21	183.14	182.98	183.04	182.91
31	182.97		182.67		183.01		183.10	183.15		183.02		182.91
MEAN	182.98	182.85	182.78	182.82	182.91	182.99	183.08	183.12	183.12	183.09	182.98	182.92
MAX.	183.43	183.11	183.04	183.21	183.19	183.30	183.43	183.40	183.40	183.40	183.36	183.21
	1404/09	0654/02	1244/19	1300/01	2220/31	1651/12	1252/18	2345/16	0603/12	1109/06	0303/19	0407/08
MIN.	182.69	182.60	182.52	182.22	182.40	182.57	182.59	182.73	182.71	182.58	182.54	182.52
	1458/06	0633/25	2044/27	1537/09	0652/26	1713/16	1038/18	2107/18	0957/11	1025/30	1212/13	0907/29

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

ANNUAL MEAN: 182.97

ANNUAL SUMMARY OF LEVELS, 1978
Station 7023: Ludington, Michigan on Lake Michigan

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST

Monthly mean elevation:	176.56	Sep
Daily mean elevation:	176.70	14 Sep
Instant/hourly elevation:	176.78	0800/14 Sep

LOWEST

Monthly mean elevation:	176.27	Mar
Daily mean elevation:	176.18	11 Jan
Instant/hourly elevation:	176.14	0300/12 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.43	7 Jan
176.34	6 Feb
176.33	26 Mar
176.47	19 Apr
176.52	30 May
176.56	16 Jun
176.57	22 Jul
176.58	28 Aug
176.70	14 Sep
176.61	3 Oct
176.57	17 Nov
176.49	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.18	11 Jan
176.25	12 Feb
176.22	19 Mar
176.28	2 Apr
176.34	1 May
176.45	13 Jun
176.47	10 Jul
176.45	17 Aug
176.49	6 Sep
176.45	31 Oct
176.34	30 Nov
176.29	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.
176.65									3				176.65	3
176.60									2	1			176.60	6
176.55						1	4	4	9	8	1		176.55	33
176.50					7	19	23	16	11	11	5		176.50	125
176.45				2	14	9	4	10	5	9	10	2	176.45	190
176.40	1			5	4	1		1		2	10	4	176.40	218
176.35	3			15	4						3	12	176.35	255
176.30	14	11	3	6	2						1	9	176.30	301
176.25	9	16	22	2								4	176.25	354
176.20	2	1	6										176.20	363
176.15	2												176.15	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7023: Ludington, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.40	176.28	176.27	176.32	176.34	176.52	176.57	176.51	176.52	176.52	176.46	176.37
2	176.35	176.32	176.26	176.28	176.35	176.51	176.57	176.53	176.50	176.56	176.43	176.37
3	176.26	176.31	176.29	176.38	176.38	176.49	176.57	176.51	176.50	176.61	176.49	176.49
4	176.32	176.33	176.26	176.36	176.43	176.51	176.55	176.49	176.49	176.55	176.48	176.46
5	176.32	176.34	176.26	176.29	176.44	176.48	176.54	176.49	176.49	176.58	176.51	176.36
6	176.38	176.34	176.27	176.37	176.39	176.49	176.53	176.50	176.49	176.60	176.44	176.31
7	176.43	176.32	176.27	176.35	176.40	176.51	176.53	176.52	176.51	176.50	176.46	176.40
8	176.34	176.33	176.27	176.31	176.47	176.49	176.52	176.50	176.56	176.52	176.45	176.42
9	176.23	176.31	176.25	176.38	176.43	176.48	176.51	176.49	176.53	176.53	176.40	176.38
10	176.18	176.29	176.26	176.46	176.37	176.49	176.47	176.50	176.56	176.56	176.52	176.34
11	176.18	176.29	176.27	176.38	176.42	176.49	176.49	176.52	176.53	176.58	176.51	176.38
12	176.22	176.25	176.26	176.35	176.46	176.49	176.50	176.52	176.60	176.53	176.50	176.38
13	176.34	176.28	176.27	176.36	176.52	176.45	176.52	176.50	176.65	176.51	176.52	176.35
14	176.37	176.32	176.29	176.31	176.51	176.48	176.51	176.50	176.70	176.56	176.43	176.33
15	176.34	176.30	176.26	176.33	176.49	176.51	176.51	176.52	176.59	176.56	176.37	176.37
16	176.31	176.30	176.30	176.36	176.49	176.56	176.49	176.56	176.55	176.58	176.43	176.35
17	176.32	176.28	176.29	176.37	176.47	176.52	176.51	176.45	176.60	176.54	176.57	176.34
18	176.33	176.27	176.25	176.42	176.48	176.52	176.52	176.56	176.69	176.52	176.48	176.36
19	176.30	176.28	176.22	176.47	176.47	176.52	176.51	176.55	176.68	176.53	176.37	176.39
20	176.33	176.31	176.23	176.41	176.47	176.54	176.54	176.49	176.63	176.50	176.45	176.42
21	176.33	176.30	176.29	176.38	176.46	176.52	176.53	176.52	176.58	176.52	176.49	176.41
22	176.30	176.27	176.26	176.38	176.49	176.51	176.57	176.51	176.57	176.51	176.45	176.35
23	176.28	176.26	176.26	176.42	176.51	176.53	176.55	176.55	176.56	176.49	176.49	176.30
24	176.29	176.27	176.24	176.43	176.50	176.53	176.52	176.55	176.55	176.50	176.44	176.39
25	176.31	176.31	176.31	176.41	176.49	176.55	176.55	176.54	176.54	176.47	176.42	176.35
26	176.26	176.27	176.33	176.40	176.50	176.55	176.54	176.52	176.53	176.49	176.49	176.29
27	176.27	176.27	176.29	176.38	176.51	176.52	176.52	176.57	176.52	176.50	176.52	176.30
28	176.28	176.30	176.27	176.38	176.51	176.52	176.51	176.58	176.54	176.45	176.50	176.29
29	176.31		176.24	176.39	176.52	176.52	176.53	176.50	176.54	176.50	176.41	176.38
30	176.31		176.26	176.39	176.52	176.53	176.53	176.52	176.60	176.49	176.34	176.42
31	176.30		176.31		176.49		176.52	176.52		176.45		176.35
MEAN	176.31	176.30	176.27	176.37	176.46	176.51	176.53	176.52	176.56	176.53	176.46	176.37
MAX.	176.47	176.37	176.38	176.52	176.63	176.64	176.66	176.68	176.78	176.68	176.68	176.70
	0600/07	0700/05	2400/31	0100/19	1100/13	0600/17	0100/23	0100/19	0800/14	0300/06	1700/17	2200/20
MIN.	176.14	176.22	176.17	176.19	176.28	176.41	176.41	176.38	176.42	176.39	176.28	176.19
	0300/12	1200/12	0300/20	0700/02	1600/01	0100/13	2000/10	1600/17	2200/04	2200/25	0900/30	1100/20

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

ANNUAL MEAN: 176.43

ANNUAL SUMMARY OF LEVELS, 1978
Station 7031: Holland, Michigan on Lake Michigan

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.53	Sep	Monthly mean elevation:	176.23	Mar
Daily mean elevation:	176.65	18 Sep	Daily mean elevation:	176.17	19 Mar
Instant/hourly elevation:	176.75	1620/18 Sep	Instant/hourly elevation:	176.03	1609/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.49	26 Jan
176.41	5 Feb
176.31	26 Mar
176.44	19 Apr
176.57	13 May
176.51	26 Jun
176.55	29 Jul
176.55	28 Aug
176.65	18 Sep
176.60	6 Oct
176.53	11 Nov
176.43	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.17	11 Jan
176.22	24 Feb
176.17	19 Mar
176.26	5 Apr
176.34	10 May
176.42	11 Jun
176.45	12 Jul
176.44	17 Aug
176.44	6 Sep
176.38	25 Oct
176.29	30 Nov
176.22	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.
176.60									4				176.60	4
176.55					1				6	3			176.55	14
176.50					1	2	10	8	10	7	1		176.50	53
176.45	1				14	21	18	15	6	11	5		176.45	144
176.40	2	1		8	7	7	3	8	4	7	13	1	176.40	205
176.35	3			6	5					3	7	8	176.35	237
176.30	6	3	1	10	3						2	8	176.30	270
176.25	10	13	5	6							2	11	176.25	317
176.20	5	11	20									3	176.20	356
176.15	3		5										176.15	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7031: Holland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.41	176.26	176.24	176.30	176.36	176.49	176.54	176.49	176.46	176.49	176.40	176.33
2	176.33	176.28	176.21	176.26	176.34	176.47	176.55	176.50	176.44	176.51	176.36	176.33
3	176.24	176.27	176.28	176.35*	176.36	176.46	176.54	176.49	176.51	176.56	176.43	176.43
4	176.28	176.29	176.23	176.31	176.41	176.47	176.50	176.45	176.45	176.50	176.44	176.38
5	176.30	176.41	176.21	176.26	176.41	176.45	176.49	176.44	176.45	176.55	176.44	176.28
6	176.33	176.34	176.25	176.35	176.36	176.44	176.48	176.45	176.44	176.60	176.42	176.30
7	176.37	176.31	176.23	176.32	176.39	176.48	176.48	176.48	176.47	176.51	176.41	176.37
8	176.38	176.31	176.23	176.30	176.43	176.48	176.48	176.44	176.53	176.51	176.33	176.37
9	176.41	176.30	176.19	176.34	176.38	176.45	176.48	176.49	176.51	176.49	176.36	176.33
10	176.25	176.25	176.22	176.43	176.34	176.44	176.45	176.47	176.52	176.51	176.46	176.30
11	176.17	176.27	176.22	176.35	176.35	176.42	176.45	176.48	176.49	176.50	176.53	176.33
12	176.20	176.23	176.21	176.30	176.43	176.49	176.45	176.49	176.57	176.48	176.46	176.27
13	176.34	176.28	176.22	176.32	176.57	176.43	176.46	176.46	176.59	176.50	176.43	176.32
14	/	176.27	176.28	176.28	176.53	176.44	176.46	176.45	176.63	176.54	176.39	176.22
15	176.28*	176.25	176.22	176.31	176.50	176.46	176.49	176.46	176.52	176.52	176.34*	176.30
16	176.30	176.25	176.26	176.34	176.49	176.49	176.47	176.49	176.54	176.59	176.40	176.31
17	176.31	176.24	176.27	176.35	176.45	176.48	176.47	176.44	176.60	176.46	176.47	176.27
18	176.27	176.25	176.17	176.40	176.45	176.48	176.46	176.49	176.65	176.47	176.45	176.35
19	176.28	176.23	176.17	176.44	176.44	176.49	176.46	176.52	176.63	176.48	176.36	176.34
20	176.31	176.26	176.18	176.42	176.46	176.50	176.50	176.45	176.62	176.45	176.43	176.39
21	176.27	176.27	176.25	176.38	176.46	176.48	176.52	176.47	176.58	176.44	176.45	176.37
22	176.23	176.22	176.21	176.37	176.47	176.46	176.52	176.45	176.56	176.49	176.42	176.29
23	176.18	176.23	176.24	176.41	176.49	176.50	176.54	176.49	176.53	176.48	176.47	176.23
24	176.22	176.22	176.22	176.41	176.48	176.50	176.51	176.52	176.52	176.38	176.42	176.36
25	176.27	176.29	176.29	176.41	176.46	176.51	176.50	176.51	176.53	176.38	176.40	176.30
26	176.49	176.26	176.31	176.39	176.47	176.51	176.50	176.51	176.46	176.45	176.45	176.26
27	176.38	176.24	176.24	176.38	176.48	176.50	176.51	176.54	176.53	176.45	176.48	176.26
28	176.31	176.29	176.23	176.37	176.48	176.49	176.46	176.55	176.49	176.44	176.44	176.22
29	176.29		176.22	176.42	176.49	176.49	176.55	176.48	176.47	176.45	176.30	176.29
30	176.25		176.20	176.42	176.49	176.50	176.52	176.51	176.56	176.39	176.29	176.37
31	176.29		176.25		176.47		176.48	176.51		176.43		176.38
MEAN	176.30	176.27	176.23	176.36	176.44	176.48	176.49	176.48	176.53	176.48	176.41	176.32
MAX.	176.57	176.47	176.38	176.52	176.64	176.58	176.63	176.63	176.75	176.74	176.70	176.56
	0650/26	1130/05	0505/14	1807/10	0636/13	2358/17	1300/29	1210/19	1620/18	0005/06	0030/18	1656/03
MIN.	176.11	176.17	176.03	176.14	176.30	176.37	176.41	176.37	176.39	176.33	176.18	176.17
	2227/11	1240/24	1609/18	0100/02	0755/06	1212/11	0057/11	2015/19	1915/04	1900/24	0743/29	0745/28

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

ANNUAL MEAN: 176.40

ANNUAL SUMMARY OF LEVELS, 1978

Station 7044: Calumet Harbor, Illinois on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.57	Sep	Monthly mean elevation:	176.28	Mar
Daily mean elevation:	176.74	18 Sep	Daily mean elevation:	176.10	14 Dec
Instant/hourly elevation:	176.92	1800/17 Jun	Instant/hourly elevation:	175.86	1600/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.56	26 Jan
176.54	5 Feb
176.49	25 Mar
176.55	30 Apr
176.65	13 May
176.54	23 Jun
176.59	29 Jul
176.54	27 Aug
176.74	18 Sep
176.70	16 Oct
176.63	11 Nov
176.55	31 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.15	23 Jan
176.20	24 Feb
176.11	18 Mar
176.28	12 Apr
176.32	11 May
176.40	11 Jun
176.46	26 Jul
176.43	17 Aug
176.40	6 Sep
176.31	25 Oct
176.18	29 Nov
176.10	14 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									6	1			176.65	8
176.60					2				3	2	1		176.60	16
176.55	1				1		3		5	2	3		176.55	31
176.50	1	2		1	5	12	14	10	6	6	2	1	176.50	91
176.45	1		1	5	13	16	14	15	6	10	4	2	176.45	178
176.40	7	1	2	8	6	1		6		7	9	4	176.40	229
176.35	3	2		6	1	1			1	1	6	4	176.35	254
176.30	7	6	5	8	3					2	2	4	176.30	291
176.25	4	10	14	2							1	7	176.25	329
176.20	4	6	7								1	7	176.20	354
176.15	1	1	1								1	1	176.15	359
176.10	2		1										176.10	362
176.05												1	176.05	363
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7044: Calumet Harbor, Illinois on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.46	176.29	176.31	176.32	176.47	176.51	176.55	176.51	176.49	176.53	176.45	176.38
2	176.28	176.33	176.28	176.35	176.42	176.49	176.58	176.51	176.47*	176.51	176.38	176.44
3	176.20	176.33	176.35	176.41	176.40	176.49	176.56	176.53	/	176.52	176.44	176.43
4	176.23	176.29	176.29	176.32	176.52	176.49	176.52	176.49	176.51*	176.47	176.45	176.20
5	176.35	176.54	176.22	176.29	176.49	176.49	176.54	176.46	/	176.47	176.45	176.21
6	176.37	176.51	176.29	176.37	176.41	176.46	176.47	176.48	176.40*	176.61	176.47	176.35
7	176.41	176.42	176.32	176.33	176.44	176.49	176.50	176.51	176.47	176.56	176.45	176.50
8	176.44	176.37	176.32	176.38	176.42	176.54	176.50	176.43	176.53	176.53	176.23	176.48
9	176.44	176.34	176.22	176.38	176.35	176.50	176.51	176.49	176.54	176.44	176.33	176.33
10	176.26	176.28	176.26	176.45	176.35	176.45	176.52	176.50	176.52	176.49	176.49	176.29
11	176.15	176.28	176.27	176.35	176.32	176.40	176.49	176.50	176.49	176.46	176.63	176.30
12	176.24	176.27	176.25	176.28	176.45	176.53	176.46	176.49	176.66	176.46	176.58	176.21
13	176.45	176.38	176.26	176.32	176.65	176.50	176.47	176.47	176.68	176.52	176.42	176.29
14	176.54	176.30	176.34	176.31	176.64	176.50	176.49	176.47	176.64	176.61	176.35	176.10
15	176.35	176.24	176.27	176.33	176.58	176.49	176.52	176.46	176.54	176.53	176.40	176.23
16	176.34	176.24	176.29	176.38	176.53	176.52	176.50	176.44	176.60	176.70	176.50	176.29
17	176.44	176.24	176.29	176.43	176.47	176.49	176.50	176.43	176.69	176.47	176.40	176.25
18	176.36	176.28	176.11	176.48	176.48	176.54	176.46	176.46	176.74	176.45	176.38	176.36
19	176.42	176.24	176.17	176.49	176.45	176.51	176.48	176.50	176.70	176.45	176.38	176.43
20	176.45	176.28	176.22	176.48	176.48	176.52	176.53	176.46	176.68	176.45	176.52	176.38
21	176.34	176.31	176.25	176.45	176.52	176.51	176.54	176.45	176.67	176.41	176.53	176.33
22	176.24	176.24	176.24	176.41	176.51	176.48	176.51	176.44	176.65	176.50	176.47	176.21
23	176.15	176.24	176.28	176.44	176.52	176.54	176.55	176.48	176.59	176.58	176.43	176.23
24	176.22	176.20	176.43	176.42	176.49	176.53	176.53	176.49	176.54	176.34	176.41	176.38
25	176.34	176.31	176.49	176.50	176.49	176.51	176.49	176.52	176.62	176.31	176.43	176.33
26	176.56	176.30	176.42	176.45	176.50	176.50	176.46	176.53	176.47	176.45	176.58	176.28
27	176.38	176.26	176.27	176.40	176.48	176.49	176.51	176.54	176.56	176.44	176.56	176.28
28	176.34	176.33	176.24	176.38	176.50	176.50	176.47	176.51	176.56	176.48	176.39	176.24
29	176.34		176.28	176.46	176.50	176.51	176.59	176.45	176.49	176.46	176.18	176.30
30	176.29		176.26	176.55	176.48	176.50	176.53	176.51	176.58	176.37	176.29	176.42
31	176.30		176.26		176.48		176.52	176.52		176.49		176.55
MEAN	176.34	176.31	176.28	176.40	176.48	176.50	176.51	176.48	176.57	176.49	176.43	176.32
MAX.	176.67	176.65	176.57	176.76	176.77	176.92	176.76	176.72	176.87	176.80	176.73	176.73
	0800/26	1300/05	0200/25	2300/30	2300/13	1800/17	2200/20	1500/19	1700/18	0200/16	0300/27	1500/20
MIN.	176.03	176.09	175.86	176.10	176.21	176.06	176.25	176.18	176.34	176.19	176.03	175.99
	0100/04	1300/24	1600/18	1000/12	1100/11	0500/16	2200/28	0900/22	2400/26	0800/25	0400/29	1800/04

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

/ Indicates No Data.

ANNUAL MEAN: 176.43

ANNUAL SUMMARY OF LEVELS, 1978
Station 7057: Milwaukee, Wisconsin on Lake Michigan

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.56	Sep	Monthly mean elevation:	176.26	Mar
Daily mean elevation:	176.72	13 Sep	Daily mean elevation:	176.17	11 Jan
Instant/hourly elevation:	176.83	1600/18 Sep	Instant/hourly elevation:	176.05	1500/18 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.45	14 Jan
176.44	6 Feb
176.40	25 Mar
176.47	18 Apr
176.64	13 May
176.56	25 Jun
176.60	2 Jul
176.54	27 Aug
176.72	13 Sep
176.61	16 Oct
176.58	11 Nov
176.49	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.17	11 Jan
176.20	17 Feb
176.18	19 Mar
176.29	5 Apr
176.35	10 May
176.45	13 Jun
176.47	10 Jul
176.42	17 Aug
176.43	6 Sep
176.39	24 Oct
176.30	30 Nov
176.22	14 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				176.65	6
176.60					1				2	1			176.60	10
176.55						1	2		5	1	3		176.55	22
176.50					6	8	14	8	8	11	3		176.50	80
176.45				2	14	19	15	20	7	11	8	1	176.45	177
176.40	7	2		7	3	2		3	2	5	8	5	176.40	221
176.35	3	2	2	11	6					2	5	6	176.35	258
176.30	12	5	2	8	1						2	8	176.30	296
176.25	4	7	10	2							1	10	176.25	330
176.20	3	11	15									1	176.20	360
176.15	2	1	2										176.15	365
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7057: Milwaukee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.42	176.29	176.24	176.31	176.38	176.49	176.56	176.51	176.49	176.50	176.43	176.34
2	176.29	176.33	176.24	176.36	176.37	176.48	176.60	176.51	176.44	176.53	176.39	176.38
3	176.24	176.33	176.27	176.39	176.38	176.48	176.55	176.51	176.48	176.54	176.46	176.49
4	176.31	176.33	176.21	176.34	176.46	176.49	176.54	176.47	176.47	176.49	176.46	176.33
5	176.36	176.41	176.21	176.29	176.44	176.46	176.54	176.47	176.46	176.53	176.45	176.26
6	176.40	176.44	176.24	176.40	176.39	176.48	176.52	176.49	176.43	176.55	176.43	176.33
7	176.42	176.39	176.24	176.34	176.42	176.50	176.49	176.50	176.49	176.50	176.45	176.44
8	176.34	176.37	176.23	176.35	176.46	176.50	176.49	176.45	176.52	176.52	176.36	176.39
9	176.31	176.34	176.22	176.40	176.37	176.48	176.50	176.47	176.51	176.51	176.39	176.31
10	176.20	176.27	176.25	176.46	176.35	176.48	176.47	176.49	176.52	176.53	176.51	176.31
11	176.17	176.27	176.24	176.35	176.39	176.45	176.48	176.50	176.50	176.51	176.58	176.35
12	176.25	176.24	176.24	176.33	176.46	176.49	176.50	176.49	176.65	176.46	176.53	176.30
13	176.42	176.33	176.28	176.31	176.64	176.45	176.49	176.47	176.72	176.51	176.48	176.27
14	176.45	176.30	176.30	176.30	176.53	176.48	176.49	176.48	176.67	176.56	176.35	176.22
15	176.34	176.23	176.26	176.32	176.51	176.51	176.50	176.49	176.56	176.55	176.38	176.30
16	176.34	176.23	176.27	176.36	176.50	176.52	176.49	176.46	176.57	176.61	176.46	176.31
17	176.41	176.20	176.27	176.38	176.46	176.49	176.51	176.42	176.66	176.50	176.51	176.27
18	176.35	176.22	176.18	176.47	176.47	176.52	176.49	176.50	176.71	176.48	176.42	176.38
19	176.37	176.21	176.18	176.45	176.45	176.50	176.49	176.48	176.69	176.46	176.36	176.45
20	176.41	176.26	176.24	176.44	176.46	176.54	176.51	176.46	176.66	176.47	176.48	176.41
21	176.35	176.25	176.27	176.40	176.47	176.49	176.52	176.48	176.60	176.46	176.48	176.36
22	176.27	176.22	176.24	176.40	176.49	176.49	176.55	176.46	176.62	176.49	176.46	176.26
23	176.23	176.21	176.27	176.45	176.51	176.52	176.53	176.50	176.58	176.51	176.47	176.27
24	176.27	176.22	176.34	176.44	176.49	176.53	176.52	176.51	176.55	176.39	176.41	176.37
25	176.33	176.26	176.40	176.43	176.49	176.56	176.52	176.50	176.57	176.40	176.42	176.30
26	176.42	176.22	176.37	176.40	176.50	176.52	176.50	176.51	176.48	176.45	176.56	176.26
27	176.33	176.23	176.28	176.38	176.50	176.49	176.49	176.54	176.52	176.45	176.56	176.28
28	176.31	176.27	176.25	176.38	176.51	176.49	176.49	176.52	176.54	176.45	176.43	176.32
29	176.33		176.24	176.43	176.52	176.49	176.54	176.45	176.52	176.48	176.31	176.39
30	176.31		176.26	176.45	176.51	176.54	176.55	176.50	176.55	176.42	176.30	176.41
31	176.29		176.31		176.48		176.52	176.51		176.45		176.45
MEAN	176.33	176.28	176.26	176.38	176.46	176.50	176.51	176.49	176.56	176.49	176.44	176.34
MAX.	176.58	176.48	176.43	176.60	176.78	176.70	176.72	176.67	176.83	176.67	176.65	176.68
	0600/26	1300/06	1300/25	2400/10	0600/13	0800/26	0100/02	0300/19	1600/18	0500/16	0500/27	0400/03
MIN.	176.10	176.16	176.05	176.11	176.28	176.29	176.37	176.33	176.38	176.29	176.21	176.15
	2000/11	0800/24	1500/18	1000/12	1800/06	0800/17	0100/21	1100/16	1900/06	0700/25	0700/29	2200/05

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

/ Indicates No Data.

ANNUAL MEAN: 176.42

ANNUAL SUMMARY OF LEVELS, 1978
Station 7068: Kewaunee, Wisconsin on Lake Michigan

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.55	Sep	Monthly mean elevation:	176.25	Mar
Daily mean elevation:	176.72	13 Sep	Daily mean elevation:	176.13	11 Jan
Instant/hourly elevation:	176.81	2100/18 Sep	Instant/hourly elevation:	176.10	1600/11 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.39	7 Jan
176.33	6 Feb
176.31	31 Mar
176.44	10 Apr
176.52	30 May
176.55	16 Jun
176.55	2 Jul
176.55	28 Aug
176.72	13 Sep
176.56	16 Oct
176.52	27 Nov
176.49	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.13	11 Jan
176.23	18 Feb
176.17	19 Mar
176.26	5 Apr
176.33	1 May
176.44	13 Jun
176.46	16 Jul
176.42	17 Aug
176.44	6 Sep
176.38	25 Oct
176.27	30 Nov
176.25	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.
176.70									1				176.70	1
176.65									3				176.65	4
176.60									2				176.60	6
176.55									3	1			176.55	10
176.50					1	9	13	6	11	10	3		176.50	63
176.45					13	20	18	21	7	11	8	1	176.45	162
176.40				4	8	1		4	3	7	10	3	176.40	202
176.35	3			12	5					2	4	3	176.35	231
176.30	7	4	3	8	4						4	12	176.30	273
176.25	12	12	6	6							1	11	176.25	321
176.20	4	12	21									1	176.20	359
176.15	2		1										176.15	362
176.10	1												176.10	363
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7068: Kewaunee, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	176.25	176.25	176.27	176.33	176.52	176.55	176.49	176.50	176.48	176.43	176.32
2	/	176.29	176.25	176.31	176.34	176.48	176.55	176.51	176.45	176.54	176.40	176.35
3	176.24*	176.29	176.25	176.37	176.35	176.48	176.53	176.48	176.45	176.55	176.47	176.49
4	176.27	176.32	176.23	176.32	176.40	176.49	176.52	176.46	176.46	176.49	176.44	176.39
5	176.31	176.27	176.24	176.26	176.39	176.46	176.53	176.46	176.47	176.53	176.46	176.27
6	176.39	176.33	176.25	176.36	176.36	176.48	176.51	176.47	176.44	176.52	176.41	176.28
7	176.39	176.31	176.26	176.31	176.38	176.48	176.51	176.49	176.48	176.49	176.44	176.38
8	176.27	176.31	176.26	176.30	176.46	176.48	176.49	176.47	176.52	176.52	176.41	176.35
9	176.23	176.28	176.24	176.38	176.38	176.46	176.49	176.45	176.53	176.51	176.37	176.31
10	176.17	176.26	176.24	176.44	176.35	176.50	176.46	176.46	176.55	176.52	176.51	176.29
11	176.13	176.25	176.26	176.35	176.42	176.46	176.46	176.49	176.52	176.52	176.48	176.34
12	176.20	176.23	176.24	176.33	176.41	176.47	176.50	176.49	176.64	176.45	176.50	176.34
13	176.33	176.27	176.25	176.30	176.46	176.44	176.48	176.46	176.72	176.49	176.50	176.26
14	176.37	176.30	176.27	176.28	176.48	176.47	176.48	176.47	176.67	176.53	176.34	176.29
15	176.31	176.25	176.24	176.30	176.46	176.51	176.48	176.50	176.54	176.52	176.35	176.31
16	176.28	176.25	176.27	176.34	176.45	176.55	176.46	176.47	176.53	176.56	176.44	176.30
17	176.33	176.24	176.25	176.35	176.43	176.51	176.50	176.42	176.59	176.49	176.52	176.27
18	176.32	176.23	176.22	176.43	176.45	176.49	176.50	176.49	176.69	176.46	176.42	176.35
19	176.29*	176.25	176.17	176.42	176.45	176.50	176.49	176.49	176.68	176.47	176.33	176.41
20	176.33	176.27	176.23	176.37	176.45	176.52	176.49	176.45	176.62	176.48	176.44	176.44
21	176.31	176.26	176.25	176.36	176.45	176.49	176.50	176.48	176.59	176.49	176.44	176.36
22	176.27	176.25	176.23	176.36	176.48	176.48	176.53	176.45	176.58	176.45	176.43	176.29
23	176.24	176.24	176.22	176.41	176.49	176.49	176.51	176.49	176.55	176.47	176.46	176.27
24	176.25	176.25	176.25	176.38	176.47	176.51	176.52	176.48	176.50	176.45	176.39	176.35
25	176.29	176.26	176.31	176.37	176.48	176.54	176.53	176.50	176.53	176.38	176.39	176.29
26	176.29	176.24	176.31	176.37	176.49	176.53	176.49	176.51	176.50	176.44	176.49	176.26
27	176.30	176.26	176.27	176.35	176.49	176.49	176.47	176.55	176.48	176.44	176.52	176.25
28	176.26	176.27	176.23	176.36	176.49	176.49	176.49	176.55	176.52	176.42	176.46	176.31
29	176.27		176.21	176.36	176.50	176.49	176.49	176.48	176.52	176.48	176.34	176.41
30	176.27		176.25	176.38	176.52	176.51	176.52	176.51	176.54	176.45	176.27	176.35
31	176.26		176.31		176.47		176.52	176.52		176.40		176.31
MEAN	176.28	176.27	176.25	176.35	176.44	176.49	176.50	176.48	176.55	176.48	176.43	176.33
MAX.	176.45	176.35	176.37	176.56	176.57	176.63	176.59	176.65	176.81	176.64	176.66	176.69
	1700/06	1200/04	1900/31	2400/18	1000/30	2200/25	1100/25	2300/15	2100/18	1300/03	1100/17	1400/20
MIN.	176.10	176.20	176.12	176.19	176.28	176.41	176.40	176.27	176.35	176.26	176.20	176.15
	1600/11	1600/12	0300/19	2100/01	1900/01	0500/13	1500/27	1300/17	0500/05	1000/25	1400/30	1600/20

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

/ Indicates No Data.

ANNUAL MEAN: 176.40

ANNUAL SUMMARY OF LEVELS, 1978

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	176.56	Sep	176.23	Mar
Daily mean elevation:	176.67	19 Sep	176.12	11 Jan
Instant/hourly elevation:	176.76	0900/18 Sep	176.08	0300/12 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.39	7 Jan
176.31	6 Feb
176.30	26 Mar
176.42	19 Apr
176.48	30 May
176.49	25 Jun
176.53	2 Jul
176.56	31 Aug
176.67	19 Sep
176.56	16 Oct
176.53	17 Nov
176.49	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.12	11 Jan
176.21	12 Feb
176.14	19 Mar
176.22	5 Apr
176.31	1 May
176.43	13 Jun
176.44	10 Jul
176.42	17 Aug
176.46	27 Sep
176.37	25 Oct
176.25	30 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.
176.65									3				176.65	3
176.60									2				176.60	5
176.55								2	4	1			176.55	12
176.50							5	4	6	8	2		176.50	37
176.45					7	21	23	20	4	10	7	1	176.45	130
176.40				3	13	9	3	5		10	10	2	176.40	185
176.35	4			5	6					2	6	4	176.35	212
176.30	3	2		15	5						4	9	176.30	250
176.25	13	8	4	5								11	176.25	291
176.20	7	18	26	2							1	4	176.20	349
176.15	2		.										176.15	351
176.10	2		1										176.10	354
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7072: Sturgeon Bay Canal, Wisconsin on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.36	176.24	176.24	176.25	176.31	176.48	176.51	176.49	/	176.48	176.42	176.31
2	176.27	176.28	176.23	176.27	176.32	176.46	176.53	176.49	/	176.52	176.38	176.34
3	176.21	176.29	176.24	176.35	176.33	176.46	176.52	176.47	/	176.54	176.46	176.49
4	176.26	176.31	176.22	176.31	176.37	176.47	176.51	176.45	/	176.49	176.44	176.38
5	176.30	176.25	176.23	176.22	176.38	176.43	176.48	176.45	/	176.53	176.47	176.23
6	176.39	176.31	176.24	176.35	176.34	176.46	176.49	176.47	/	176.53	176.38	176.30
7	176.39	176.28	176.24	176.31	176.38	176.45	176.49	176.49	/	176.48	176.44	176.37
8	176.26	176.30	176.24	176.26	176.44	176.46	176.47	176.47	/	176.50	176.38	176.35
9	176.19	176.27	176.23	176.35	176.38	176.44	176.46	176.45	/	176.49	176.36	176.30
10	176.15	176.24	176.23	176.42	176.34	176.47	176.44	176.47	/	176.52	176.50	176.28
11	176.12	176.24	176.24	176.35	176.40	176.44	176.45	176.48	/	176.51	176.46	176.33
12	176.19	176.21	176.22	176.32	176.39	176.43	176.46	176.48	176.61*	176.44	176.48	176.31
13	176.31	176.25	176.23	176.30	176.44	176.43	176.46	176.46	176.66	176.48	176.47	176.25
14	176.36	176.29	176.24	176.28	176.47	176.44	176.47	176.46	176.65	176.52	176.33	176.27
15	176.30	176.25	176.23	176.29	176.45	176.48	176.46	176.49	176.51	176.51	176.34	176.30
16	176.27	176.26	176.27	176.32	176.45	176.48	176.45	176.48	176.52	176.56	176.42	176.29
17	176.31	176.24	176.24	176.33	176.43	176.45	176.49	176.42	176.56	176.48	176.53	176.26
18	176.30	176.22	176.22	176.42	176.45	176.45	176.48	176.49	176.67	176.43	176.38	176.33
19	176.26	176.25	176.14	176.42	176.44	176.47	176.47	176.50	176.67	176.45	176.33	176.40
20	176.31	176.26	176.21	176.36	176.43	176.49	176.47	176.47	176.60	176.45	176.44	176.42
21	176.30	176.25	176.25	176.34	176.44	176.47	176.48	176.47	176.56	176.47	176.45	176.35
22	176.26	176.24	176.23	176.35	176.45	176.47	176.50	176.44	176.56	176.44	176.42	176.27
23	176.24	176.22	176.21	176.40	176.46	176.47	176.49	176.49	176.52	176.46	176.45	176.27
24	176.24	176.23	176.22	176.38	176.45	176.49	176.50	176.48	176.49	176.41	176.38	176.34
25	176.24	176.25	176.28	176.36	176.45	176.49	176.49	176.51	176.52	176.37	176.41	176.29
26	176.23	176.24	176.30	176.35	176.47	176.48	176.48	176.53	176.48	176.43	176.49	176.24
27	176.26	176.25	176.25	176.35	176.47	176.46	176.47	176.56	176.46	176.44	176.52	176.23
28	176.24	176.25	176.22	176.35	176.47	176.46	176.46	176.52	176.50	176.42	176.45	176.30
29	176.26		176.21	176.35	176.48	176.47	176.48	176.49	176.51	176.47	176.32	176.41
30	176.26		176.24	176.37	176.48	176.48	176.51	176.53	176.53	176.42	176.25	176.37
31	176.25		176.29		176.43		176.50	176.56		176.40		176.33
MEAN	176.27	176.26	176.23	176.34	176.42	176.46	176.48	176.48	176.56	176.47	176.42	176.32
MAX.	176.44	176.36	176.36	176.50	176.54	176.56	176.56	176.61	176.76	176.60	176.66	176.59
	2300/06	0500/04	2300/31	0100/19	1200/20	1600/16	1700/02	0700/27	0900/18	1700/05	1700/17	0700/03
MIN.	176.08	176.17	176.09	176.11	176.25	176.31	176.40	176.34	176.38	176.31	176.20	176.19
	0300/12	0700/12	0100/24	1300/05	1200/03	1800/16	1500/05	2100/16	0200/27	1000/25	1300/30	2400/25

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

/ Indicates No Data.

ANNUAL MEAN: 176.39

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.53	Sep	Monthly mean elevation:	176.23	Mar
Daily mean elevation:	176.83	12 Sep	Daily mean elevation:	176.08	5 Dec
Instant/hourly elevation:	176.96	0800/12 Sep	Instant/hourly elevation:	175.75	1200/19 Mar

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.35	14 Jan
176.30	8 Feb
176.31	31 Mar
176.49	30 Apr
176.49	4 May
176.54	30 Jun
176.58	22 Jul
176.55	27 Aug
176.83	12 Sep
176.62	16 Oct
176.71	11 Nov
176.52	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.13	26 Jan
176.22	5 Feb
176.12	19 Mar
176.22	1 Apr
176.29	10 May
176.35	29 Jun
176.41	12 Jul
176.40	17 Aug
176.29	26 Sep
176.20	24 Oct
176.12	29 Nov
176.08	5 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									2				176.80	2
176.75									1				176.75	3
176.70											1		176.70	4
176.65									1				176.65	5
176.60									3	1			176.60	9
176.55							1			2	3		176.55	15
176.50						3	2	7	10	3	1	1	176.50	42
176.45				3	9	13	9	7	5	7	1		176.45	96
176.40				4	9	11	10	14	5	9	8	3	176.40	169
176.35				5	3	2		2	2	6	3	3	176.35	195
176.30	2		1	10	6	1				1	5	3	176.30	224
176.25	9	6	3	5	1				1	1	3	7	176.25	260
176.20	6	2	14	3								7	176.20	292
176.15	1		3							1	3	6	176.15	306
176.10			1								1		176.10	309
176.05												1	176.05	310
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INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	176.24	/	176.22	176.32	176.45	/	/	176.43	176.48	176.35	176.28
2	/	176.26	/	176.30	176.31	176.43	/	176.51*	176.37	176.49	176.35	176.34
3	/	176.28*	/	176.37	176.35	176.45	/	176.45	176.49	176.52*	176.42	176.52
4	/	176.30*	/	176.32	176.49	176.46	/	176.41	176.45*	176.39*	176.45	176.17
5	/	176.22	/	176.23	176.47	176.41	/	176.40	176.43*	176.58	176.42	176.08
6	/	176.28	/	176.36	176.36	176.42	/	176.44	176.37	176.52	176.38	176.24
7	/	176.26	/	176.30	176.40	176.54	176.43*	176.46	176.52	176.48	176.37	176.36
8	/	176.30*	/	176.29	176.41	176.45	176.46	176.41	176.55	176.45	176.16	176.30
9	/	/	/	176.38	176.32	176.46	176.45	176.45	176.53	176.45	176.45	176.25
10	/	/	176.24*	176.43	176.29	176.38	176.45	176.44	176.54	176.50	176.59	176.22
11	/	/	176.23	176.35*	176.34	176.39	176.44*	176.47	176.54	176.44	176.71*	176.29
12	/	/	176.22	176.31*	176.32*	176.50	176.41	176.46	176.83	176.38	/	176.26
13	176.35*	/	176.24	176.26	/	176.43*	176.45	176.43	176.81	176.50	176.28*	176.18
14	176.35	/	176.23	176.24	/	176.42	176.46	176.41	176.64	176.53	176.19	176.19
15	176.30	/	176.22	176.27	/	176.47	176.47	176.45	176.45	176.59	176.30	176.24
16	176.25	/	176.25	176.31	176.44*	176.48	176.46	176.42	176.55	176.62	176.42	176.25
17	176.29	/	176.22	176.35	176.41	176.48	176.46	176.40	176.62	176.38	176.59	176.20
18	176.30	/	176.23	176.49	176.42	176.46	176.44	176.47	176.80	176.42	176.27	176.40
19	176.24	/	176.12	176.44	176.39	176.45	176.46	176.48	176.67	176.40	176.32	176.42
20	176.28	/	176.24	176.42	176.46	176.48	176.52	176.44	176.62	176.42	176.46	176.41
21	176.30	/	176.24	176.33	176.47	176.46	176.53	176.41	176.55	176.45	176.43	176.30
22	176.27	/	176.23	176.33	176.45	176.45	176.58	176.44	176.52	176.49	176.41	176.18
23	176.26	/	176.20	176.40	176.46	176.49*	176.50	176.52	176.43	176.47	176.44	176.25
24	176.25	/	176.22	176.42	176.44	176.49	176.46	176.53	176.48	176.20	176.32	176.35
25	176.27	/	176.29	176.39	176.45	176.51*	176.44	176.50	176.49	176.28	176.39	176.27
26	176.13	/	176.30	176.34	176.44	176.49*	176.45	176.50	176.29	176.41	176.60	176.21
27	176.17	/	176.26	176.34	176.46	176.44*	176.48	176.55	176.53	176.39	176.55	176.19
28	176.21	/	176.20	176.34	176.47	176.47*	176.42*	176.52	176.47	176.44	176.35	176.31
29	176.25		176.18	176.47	176.47	176.35*	/	176.43	176.46	176.43	176.12	176.43
30	176.26		176.24	176.49	176.45	176.54*	/	176.52	176.52	176.33	176.17	176.36
31	176.24		176.31		176.46		/	176.51		176.39		176.27
MEAN	176.26	176.27	176.23	176.35	176.41	176.46	176.46	176.46	176.53	176.45	176.39	176.28
MAX.	176.45	176.45	176.60	176.83	176.79	176.83	176.82	176.70	176.96	176.90	176.96	176.72
	1100/13	1700/04	0600/19	1900/30	1400/20	0600/18	1900/22	0800/24	0800/12	2100/15	0600/18	2200/03
MIN.	175.95	176.16	175.75	175.97	176.04	176.17	176.25	176.20	175.99	176.00	175.85	175.80
	1800/26	1700/05	1200/19	0300/05	1200/01	0300/11	1200/18	0800/16	1100/26	1200/24	0200/14	0400/05

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

/ Indicates No Data.

ANNUAL MEAN: 176.38

ANNUAL SUMMARY OF LEVELS, 1978
Station 7096: Port Inland, Michigan on Lake Michigan

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	176.52	Sep	Monthly mean elevation:	176.21	Mar
Daily mean elevation:	176.65	14 Sep	Daily mean elevation:	176.05	26 Jan
Instant/hourly elevation:	176.87	1830/17 Nov	Instant/hourly elevation:	175.85	0652/26 Jan

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.38	7 Jan
176.30	4 Feb
176.28	18 Mar
176.40	10 Apr
176.48	30 May
176.51	26 Jun
176.54	25 Jul
176.56	27 Aug
176.65	14 Sep
176.58	24 Oct
176.53	17 Nov
176.48	4 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
176.05	26 Jan
176.18	13 Feb
176.15	23 Mar
176.21	8 Apr
176.25	1 May
176.39	13 Jun
176.41	10 Jul
176.40	17 Aug
176.43	27 Sep
176.38	28 Oct
176.27	30 Nov
176.21	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									3				176.60	3
176.55								1	2	2			176.55	8
176.50						1	4	3	9	5	3		176.50	33
176.45					1	18	20	22	12	13	7	1	176.45	127
176.40					15	9	7	4	3	8	4	2	176.40	179
176.35	2			2	6	2		1		3	12	2	176.35	209
176.30				13	6						2	12	176.30	242
176.25	6	3	2	10	2						2	7	176.25	274
176.20	15	17	14	5	1							7	176.20	333
176.15	4	8	13										176.15	358
176.10	1		2										176.10	361
176.05	2												176.05	363
176.00	1												176.00	364
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 7096: Port Inland, Michigan on Lake Michigan

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	176.29	176.22	176.20	176.21	176.25	176.49	176.51	176.46	176.52	176.46	176.46	176.31
2	176.27	176.24	176.20	176.21	176.28	176.44	176.51	176.50	176.50	176.55	176.40	176.30
3	176.23	176.23	176.18	176.31	176.30	176.44	176.50	176.46	176.44	176.58*	176.47	176.44
4	176.27	176.30	176.18	176.26	176.33	176.45	176.49	176.47	176.49	176.51*	176.41	176.48
5	176.25	176.18	176.20	176.22	176.33	176.43	176.51	176.48	176.50	176.50	176.48	176.31
6	176.38	176.21	176.19	176.32	176.32	176.47	176.50	176.46	176.48	176.44	176.37	176.28
7	176.38	176.19	176.17	176.26	176.34	176.43	176.49	176.49	176.48	176.39	176.43	176.35
8	176.19	176.23	176.20	176.21	176.42	176.43	176.46	176.49	176.51	176.47	176.52	176.34
9	176.10	176.23	176.24	176.32	176.38	176.42	176.46	176.45	176.51	176.49*	176.34	176.30
10	176.10	176.23	176.21	176.40	176.32	176.49	176.41	176.46	176.51	176.49	176.46	176.29
11	176.13	176.22	176.23	176.32	176.43	176.46	176.44	176.48	176.47	176.54	176.36	176.34
12	176.19	176.18	176.20	176.29	176.37	176.40	176.48	176.48	176.50	176.46	176.39	176.40
13	176.24	176.18	176.22	176.30	176.34	176.39	176.47	176.46	176.61	176.44	176.52	176.25
14	176.24	176.28	176.21	176.25	176.40	176.42	176.47	176.48	176.65	176.47	176.37	176.33
15	176.25	176.27	176.20	176.28	176.39	176.46	176.45	176.50	176.49	176.46	176.34	176.34
16	176.23	176.25	176.24	176.31	176.41	176.50	176.43	176.52	176.45*	176.50	176.40	176.28
17	176.23	176.24	176.22	176.29	176.41	176.48	176.47	176.40	/	176.51	176.53	176.25
18	176.24	176.19	176.28	176.33	176.43	176.48	176.50	176.49	176.63*	176.42	176.46	176.25
19	176.21	176.23	176.15	176.35	176.44	176.47	176.48	176.45	176.60	176.46	176.30	176.31
20	176.23	176.23	176.21	176.27	176.40	176.50	176.45	176.45	176.52	176.48	176.38	176.38
21	176.25	176.20	176.24	176.29	176.40	176.47	176.48	176.50	176.47	176.50	176.40	176.34
22	176.27	176.21	176.22	176.31	176.42	176.45	176.48	176.46	176.51	176.42	176.38	176.31
23	176.29	176.22	176.15	176.36	176.44	176.46	176.47	176.54	176.55	176.42	176.42	176.24
24	176.25	176.21	176.16	176.33	176.43	176.48	176.49	176.48	176.47	176.58	176.36	176.32
25	176.22	176.20	176.19	176.31	176.42	176.50	176.54	176.47	176.48	176.45	176.37	176.26
26	176.05	176.19	176.23	176.33	176.45	176.51	176.50	176.49	176.60	176.45	176.40	176.22
27	176.18	176.21	176.24	176.32	176.44	176.46	176.44	176.56	176.43	176.45	176.46	176.24
28	176.20	176.21	176.22	176.33	176.45	176.47	176.49*	176.52	176.50	176.38	176.46	176.27
29	176.23		176.17	176.29	176.45	176.47	176.45	176.46	176.54	176.49	176.44	176.42
30	176.26		176.24	176.30	176.48	176.48	176.48	176.45	176.54	176.55	176.27	176.33
31	176.25		176.26		176.43		176.49	176.48		176.39		176.21
MEAN	176.23	176.22	176.21	176.30	176.39	176.46	176.48	176.48	176.52	176.47	176.41	176.31
MAX.	176.48	176.36	176.54	176.61	176.61	176.71	176.70	176.76	176.81	176.74	176.87	176.63
	1820/06	1547/04	1550/18	0012/11	0330/30	2120/16	1341/22	0625/16	1105/14	1207/24	1830/17	1750/04
MIN.	175.85	176.08	176.01	176.02	176.15	176.23	176.13	176.15	176.27	176.28	176.13	176.12
	0652/26	1313/05	2145/23	2305/01	0552/13	2128/17	1348/22	0412/23	1050/27	0114/31	0100/30	1310/13

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

/ Indicates No Data.

ANNUAL MEAN: 176.37

ANNUAL SUMMARY OF LEVELS, 1978

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

INTERNATIONAL GREAT LAKES DATUM (1955)

HIGHEST		
Monthly mean elevation:	183.20	Sep
Daily mean elevation:	183.38	9 Jan
Instant/hourly elevation:	183.51	2200/9 Jan

LOWEST		
Monthly mean elevation:	182.93	Apr
Daily mean elevation:	182.79	29 Dec
Instant/hourly elevation:	182.67	1400/9 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.38	9 Jan
183.08	5 Feb
183.00	19 Mar
183.02	1 Apr
183.04	31 May
183.12	12 Jun
183.23	27 Jul
183.26	30 Aug
183.26	3 Sep
183.33	6 Oct
183.16	14 Nov
183.09	13 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.01	6 Jan
182.95	27 Feb
182.84	31 Mar
182.83	9 Apr
182.87	8 May
182.97	10 Jun
183.04	5 Jul
183.12	14 Aug
183.14	29 Sep
183.04	29 Oct
182.97	27 Nov
182.79	29 Dec

FREQUENCY DISTRIBUTION OF DAILY MEAN LEVELS

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
183.35	1											
183.30	1									1		
183.25	2							2	1	1		
183.20	2						2	6	14	9		
183.15	3						9	13	11	10	1	
183.10	6					1	12	10	4	7	7	
183.05	13	3				12	6			2	11	4
183.00	3	9		1	5	13	2			1	7	10
182.95		14	7	7	16	4					4	12
182.90		2	16	14	7							3
182.85			7	5	3							1
182.80			1	3								
182.75												1

Elev. (m.)	No. of days above elev.
183.35	1
183.30	3
183.25	9
183.20	42
183.15	89
183.10	136
183.05	187
183.00	238
182.95	302
182.90	344
182.85	360
182.80	364
182.75	365

INTERNATIONAL GREAT LAKES DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

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

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.18	183.06	182.97	183.02	183.00	183.00	183.05	183.15	183.16	183.21	183.11	183.08
2	183.22	183.07	182.95	182.86	182.95	183.04	183.07	183.17	183.23	183.14	183.11	183.05
3	183.14	183.02	182.98	182.85	182.92	183.01	183.08	183.20	183.26	183.21	183.06	182.98
4	183.18	182.98	182.96	182.92	182.92	183.04	183.07	183.19	183.22	183.22	183.11	183.02
5	183.12	183.08	182.93	182.91	182.95	183.01	183.04	183.17	183.19	183.23	183.08	183.05
6	183.01	183.02	182.94	182.84	182.94	183.00	183.06	183.19	183.23	183.33	183.15	183.07
7	183.06	183.02	182.93	183.00	182.90	183.08	183.09	183.15	183.18	183.29	183.06	183.02
8	183.26	183.00	182.91	182.92	182.87	183.05	183.15	183.17	183.22	183.21	183.04	183.05
9	183.38	183.03	182.93	182.83	182.96	183.08	183.14	183.20	183.14	183.18	183.11	183.06
10	183.32	183.02	182.93	182.88	182.91	182.97	183.17	183.18	183.20	183.18	183.05	183.03
11	183.28	183.04	182.93	182.94	182.88	183.04	183.13	183.15	183.21	183.15	183.11	182.98
12	183.12	183.03	182.92	182.91	182.98	183.12	183.08	183.14	183.19	183.25	183.04	182.96
13	183.11	183.00	182.90	183.00	183.01	183.09	183.15	183.15	183.14	183.23	182.97	183.09
14	183.09	182.98	182.97	182.97	183.01	183.05	183.12	183.12	183.17	183.22	183.16	182.97
15	183.10	182.99	182.92	182.97	183.01	183.01	183.18	183.13	183.25	183.18	183.08	182.99
16	183.10	183.00	182.93	182.94	182.99	183.00	183.14	183.18	183.23	183.18	183.04	183.00
17	183.07	183.01	182.94	182.92	183.00	183.05	183.11	183.21	183.21	183.14	183.07	183.01
18	183.07	183.01	182.90	182.90	182.99	183.07	183.11	183.14	183.18	183.20	183.10	182.96
19	183.10	182.97	183.00	182.95	182.97	183.03	183.15	183.24	183.14	183.19	183.15	182.91
20	183.08	182.99	182.88	182.97	183.04	183.03	183.19	183.18	183.24	183.13	183.06	182.90
21	183.07	182.98	182.93	182.94	182.99	183.07	183.18	183.15	183.25	183.13	183.08	182.95
22	183.06	182.95	182.93	182.90	182.97	183.08	183.19	183.19	183.20	183.21	183.04	182.97
23	183.05	182.98	182.99	182.88	182.97	183.06	183.19	183.18	183.17	183.16	183.04	182.96
24	183.07	182.96	182.91	182.92	182.97	183.04	183.14	183.22	183.25	183.08	183.10	182.98
25	183.04	183.00	182.90	182.93	182.96	183.03	183.13	183.21	183.21	183.17	183.03	183.03
26	183.24	182.98	182.90	182.92	182.95	183.07	183.17	183.19	183.17	183.15	182.99	183.01
27	183.18	182.95	182.88	182.92	182.98	183.10	183.23	183.15	183.23	183.16	182.97	183.02
28	183.14	182.98	182.96	182.93	182.99	183.08	183.16	183.25	183.19	183.17	183.00	182.91
29	183.10		182.93	182.96	182.98	183.09	183.22	183.26	183.14	183.04	183.06	182.79
30	183.06		182.89	182.97	182.99	183.07	183.17	183.26	183.22	183.06	183.09	182.98
31	183.11		182.84		183.04		183.15	183.22		183.13		182.97
MEAN	183.13	183.00	182.93	182.93	182.97	183.05	183.14	183.18	183.20	183.18	183.07	182.99
MAX.	183.51	183.14	183.16	183.18	183.12	183.22	183.32	183.34	183.42	183.38	183.28	183.27
	2200/09	0700/05	0400/19	1200/01	1600/31	1500/12	1000/29	1200/19	1900/11	0800/06	2000/29	1200/13
MIN.	182.95	182.90	182.73	182.67	182.76	182.84	182.89	182.99	183.03	182.91	182.80	182.72
	1400/06	1000/04	2000/31	1400/09	0800/11	1400/10	0900/18	1600/18	0600/14	0700/30	1100/13	0900/29

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

/ Indicates No Data.

ANNUAL MEAN: 183.06

ANNUAL SUMMARY OF LEVELS, 1978
Station 9016: Marquette, Michigan on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	183.25	Sep
Daily mean elevation:	183.30	6 Oct
Instant/hourly elevation:	183.49	1300/11 Sep

LOWEST		
Monthly mean elevation:	182.95	Apr
Daily mean elevation:	182.90	9 Apr
Instant/hourly elevation:	182.75	2000/10 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.29	9 Jan
183.14	5 Feb
183.00	3 Mar
182.98	20 Apr
183.07	30 May
183.14	29 Jun
183.24	29 Jul
183.27	30 Aug
183.27	17 Sep
183.30	6 Oct
183.14	11 Nov
183.06	2 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.08	31 Jan
182.99	27 Feb
182.93	30 Mar
182.90	9 Apr
182.94	3 May
183.04	10 Jun
183.12	6 Jul
183.19	15 Aug
183.21	26 Sep
183.11	30 Oct
183.03	28 Nov
182.92	29 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							5	8	3			183.25	17
183.20	3						7	19	22	13			183.20	81
183.15	9						15	7		11			183.15	123
183.10	11	2				9	9			4	12		183.10	170
183.05	7	5			2	19					12	1	183.05	216
183.00		15			17	2					6	10	183.00	266
182.95		6	23	12	7							18	182.95	332
182.90			8	17	5							2	182.90	364
182.85				1									182.85	365

INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9016: Marquette, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.18	183.08	182.98	182.98	182.96	183.05	183.13	183.19	183.24	183.23	183.13	183.03
2	183.19	183.08	182.98	182.95	182.95	183.06	183.14	183.21	183.26	183.21	183.12	183.06
3	183.18	183.07	183.00	182.92	182.94	183.06	183.13	183.22	183.27	183.24	183.12	183.04
4	183.16	183.05	182.98	182.94	182.95	183.07	183.13	183.21	183.24	183.25	183.12	183.02
5	183.17	183.14	182.98	182.92	182.96	183.06	183.12	183.21	183.26	183.26	183.11	183.01
6	183.15	183.11	182.98	182.92	182.95	183.06	183.12	183.22	183.25	183.30	183.12	183.03
7	183.18	183.08	182.97	182.95	182.95	183.08	183.16	183.21	183.26	183.27	183.10	183.02
8	183.25	183.06	182.96	182.94	182.96	183.09	183.15	183.20	183.25	183.22	183.08	183.00
9	183.29	183.05	182.97	182.90	182.97	183.09	183.17	183.21	183.23	183.22	183.11	183.03
10	183.22	183.05	182.97	182.92	182.96	183.04	183.16	183.21	183.25	183.23	183.14	183.01
11	183.15	183.05	182.97	182.96	182.96	183.08	183.15	183.20	183.27	183.22	183.14	182.99
12	183.15	183.05	182.97	182.95	182.99	183.10	183.15	183.19	183.27	183.25	183.09	182.99
13	183.18	183.04	182.96	182.96	183.02	183.10	183.17	183.21	183.24	183.25	183.06	183.03
14	183.16	183.02	182.99	182.97	183.04	183.08	183.17	183.20	183.24	183.23	183.07	182.99
15	183.13	183.01	182.98	182.97	183.02	183.09	183.18	183.19	183.24	183.22	183.08	182.98
16	183.15	183.02	182.98	182.97	183.01	183.09	183.17	183.22	183.27	183.21	183.07	182.99
17	183.13	183.02	182.96	182.96	183.02	183.11	183.17	183.22	183.27	183.17	183.11	183.00
18	183.11	183.02	182.95	182.95	183.01	183.10	183.20	183.20	183.25	183.19	183.11	183.00
19	183.13	183.01	182.98	182.97	183.02	183.09	183.21	183.25	183.24	183.19	183.12	182.96
20	183.13	183.02	182.95	182.98	183.03	183.10	183.20	183.23	183.25	183.18	183.09	182.97
21	183.11	183.02	182.96	182.96	183.01	183.10	183.18	183.22	183.25	183.19	183.06	182.97
22	183.08	182.99	182.96	182.94	183.01	183.11	183.21	183.23	183.23	183.20	183.05	182.96
23	183.08	183.00	182.99	182.94	183.02	183.11	183.20	183.26	183.22	183.18	183.06	182.97
24	183.08	183.00	182.96	182.94	183.02	183.11	183.19	183.25	183.25	183.14	183.08	183.01
25	183.10	183.02	182.94	182.94	183.03	183.11	183.21	183.25	183.24	183.16	183.08	183.00
26	183.25	183.00	182.94	182.95	183.03	183.12	183.21	183.25	183.21	183.17	183.05	182.98
27	183.19	182.99	182.93	182.95	183.04	183.10	183.23	183.27	183.23	183.16	183.03	182.96
28	183.14	183.00	182.96	182.95	183.06	183.12	183.20	183.27	183.22	183.17	183.03	182.94
29	183.10		182.95	182.96	183.04	183.14	183.24	183.27	183.22	183.11	183.04	182.92
30	183.08		182.93	182.96	183.07	183.13	183.21	183.27	183.24	183.11	183.04	182.97
31	183.08		182.95		183.05		183.19	183.25		183.14		182.98
MEAN	183.15	183.04	182.97	182.95	183.00	183.09	183.18	183.23	183.25	183.20	183.09	182.99
MAX.	183.35	183.19	183.05	183.11	183.21	183.30	183.34	183.41	183.49	183.34	183.28	183.11
	2100/08	2100/05	0400/19	0700/11	1900/31	1600/11	1300/18	1100/18	1300/11	0400/06	1700/10	1400/02
MIN.	183.01	182.95	182.86	182.75	182.83	182.75	182.99	183.07	183.10	183.01	182.97	182.85
	1600/18	0500/24	1300/20	2000/10	1300/08	1700/11	1700/28	0200/16	0500/11	0400/24	0700/29	0200/20

ANNUAL MEAN: 183.10

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 9044: Ontonagon, Michigan on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST		
Monthly mean elevation:	183.28	Sep
Daily mean elevation:	183.32	7 Sep
Instant/hourly elevation:	183.51	0046/12 Sep

LOWEST		
Monthly mean elevation:	182.96	Apr
Daily mean elevation:	182.93	1 May
Instant/hourly elevation:	182.81	0928/11 Jun

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
	Feb
	Mar
182.99	14 Apr
183.06	30 May
183.15	30 Jun
183.23	25 Jul
183.26	31 Aug
183.32	7 Sep
183.28	5 Oct
183.14	10 Nov
	Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
	Jan
	Feb
	Mar
182.94	30 Apr
182.93	1 May
183.07	2 Jun
183.12	3 Jul
183.21	12 Aug
183.25	30 Sep
183.15	31 Oct
183.08	21 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.
183.30									2				183.30	2
183.25								5	27	4			183.25	38
183.20							7	26	1	13			183.20	85
183.15							17			13			183.15	115
183.10						17	7			1	16		183.10	156
183.05					2	13					5		183.05	176
183.00					11								183.00	187
182.95				11	14								182.95	212
182.90				6	4								182.90	222
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9044: Ontonagon, Michigan on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	/	/	/	/	182.93	183.08	183.14	183.22	183.27	183.25	183.14	/
2	/	/	/	/	182.94	183.07	183.14	183.22	183.27	183.27	183.14	/
3	/	/	/	/	182.97	183.08	183.12	183.22	183.26	183.26	183.14	/
4	/	/	/	/	182.97	183.08	183.13	183.22	183.26	183.26	183.13	/
5	/	/	/	/	182.95	183.08	183.14	183.24	183.28	183.28	183.12	/
6	/	/	/	/	182.95	183.08	183.13	183.23	183.27	183.25	183.13	/
7	/	/	/	/	182.97	183.08	183.15	183.22	183.32	183.25	183.13	/
8	/	/	/	/	182.99	183.08	183.16	183.22	183.27	183.25	183.12	/
9	/	/	/	/	182.96	183.09	183.17	183.22	183.29	183.25	183.12	/
10	/	/	/	/	182.99	183.12	183.16	183.23	183.26	183.25	183.14	/
11	/	/	/	/	182.99	183.08	183.17	183.22	183.29	183.25	183.08	/
12	/	/	/	/	182.98	183.10	183.18	183.21	183.30	183.24	183.11	/
13	/	/	/	/	182.97	183.09	183.18	183.22	183.31	183.24	183.11	/
14	/	/	/	182.99*	183.00	183.11	183.19	183.23	183.28	183.24	183.10	/
15	/	/	/	182.97	183.00	183.13	183.17	183.25	183.26	183.25	183.10	/
16	/	/	/	182.97	183.01	183.14	183.19	183.24	183.29	183.22	183.11	/
17	/	/	/	182.97	183.00	183.11	183.19	183.26	183.29	183.20	183.10	/
18	/	/	/	182.98	183.00	183.10	183.20	183.26	183.30	183.20	183.13	/
19	/	/	/	182.96	183.01	183.12	183.20	183.23	183.29	183.19	183.11	/
20	/	/	/	182.95	183.00	183.12	183.19	183.24	183.27	183.20	183.11	/
21	/	/	/	182.94	183.02	183.11	183.20	183.24	183.26	183.22	183.08	/
22	/	/	/	182.97	183.03	183.11	183.19	183.24	183.28	183.20	/	/
23	/	/	/	182.97	183.02	183.12	183.20	183.25	183.27	183.19	/	/
24	/	/	/	182.96	183.02	183.12	183.21	183.24	183.27	183.18	/	/
25	/	/	/	182.95	183.03	183.12	183.23	183.24	183.27	183.18	/	/
26	/	/	/	182.95	183.03	183.13	183.21	183.25	183.27	183.17	/	/
27	/	/	/	182.96	183.03	183.12	183.20	183.26	183.26	183.18	/	/
28	/	/	/	182.96	183.04	183.12	183.22	183.23	183.26	183.18	/	/
29	/		/	182.95	183.06	183.12	183.21	183.25	183.28	183.18	/	/
30	/		/	182.94	183.06	183.15	183.21	183.26	183.25	183.17	/	/
31	/		/		183.05		183.21	183.26		183.15		/
MEAN	/	/	/	182.96	183.00	183.11	183.18	183.24	183.28	183.22	183.12	/
MAX.				183.06 0100/20	183.22 1938/31	183.29 0357/11	183.45 0315/18	183.48 0503/18	183.51 0046/12	183.36 1245/24	183.28 2220/10	
MIN.				182.86 1710/29	182.84 1648/01	182.81 0928/11	183.00 0332/18	183.00 0202/23	183.04 1740/10	183.04 1920/30	182.85 2220/13	

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

ANNUAL MEAN: 183.14

ANNUAL SUMMARY OF LEVELS, 1978
Station 9064: Duluth, Minnesota on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

	HIGHEST		LOWEST	
Monthly mean elevation:	183.33	Sep	182.98	Mar
Daily mean elevation:	183.53	12 Sep	182.90	28 Mar
Instant/hourly elevation:	183.66	2300/11 Sep	182.75	0500/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.28	6 Jan
183.11	8 Feb
183.07	13 Mar
183.11	18 Apr
183.12	31 May
183.18	30 Jun
183.26	28 Jul
183.37	23 Aug
183.53	12 Sep
183.33	2 Oct
183.25	10 Nov
183.11	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.99	27 Jan
182.98	23 Feb
182.90	28 Mar
182.92	13 Apr
182.96	1 May
183.10	6 Jun
183.16	7 Jul
183.19	3 Aug
183.26	30 Sep
183.14	31 Oct
183.00	29 Nov
182.93	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.
183.50									1				183.50	1
183.45									1				183.45	2
183.40									2				183.40	4
183.35								1	4				183.35	9
183.30								5	9	2			183.30	25
183.25	1						1	10	13	8			183.25	58
183.20	3						20	11		9	1		183.20	102
183.15	5					7	10	4		8	3		183.15	139
183.10	9	1		1	2	20				4	12	1	183.10	189
183.05	6	6	1	5	11	3					11	4	183.05	236
183.00	6	14	2	5	12						2	6	183.00	283
182.95	1	7	21	14	6						1	15	182.95	348
182.90			6	5								5	182.90	364
182.85			1										182.85	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9064: Duluth, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.15	183.06	182.98	182.92	182.96	183.11	183.23	183.25	183.33	183.32	183.11	183.01
2	183.12	183.05	182.99	183.09	182.98	183.10	183.22	183.20	183.28	183.33	183.16	183.07
3	183.17	183.09	182.97	183.00	183.01	183.11	183.17	183.19	183.30	183.28	183.15	183.11
4	183.17	183.07	182.96	182.95	183.04	183.10	183.18	183.20	183.30	183.27	183.18	182.97
5	183.22	183.05	182.99	183.00	182.99	183.11	183.18	183.22	183.32	183.27	183.09	182.97
6	183.28	183.09	182.99	183.03	183.00	183.10	183.16	183.25	183.31	183.22	183.11	183.00
7	183.18	183.09	183.00	182.95	183.06	183.11	183.16	183.25	183.38	183.25	183.14	183.01
8	183.11	183.11	182.97	183.08	183.04	183.11	183.19	183.20	183.36	183.28	183.11	182.99
9	183.09	183.03	182.95	183.09	182.97	183.15	183.17	183.21	183.35	183.28	183.15	182.99
10	183.05	183.01	183.00	183.01	183.04	183.16	183.18	183.24	183.32	183.28	183.25	183.00
11	183.06	183.02	182.96	182.96	183.02	183.12	183.21	183.25	183.43	183.26	183.12	183.00
12	183.17	183.03	183.00	183.00	183.01	183.12	183.23	183.24	183.53	183.19	183.16	183.00
13	183.21	183.07	183.07	182.92	183.00	183.14	183.18	183.25	183.47	183.24	183.10	182.95
14	183.18	183.00	182.99	182.95	183.02	183.18	183.22	183.26	183.32	183.25	183.03	183.03
15	183.13	183.00	183.00	182.97	183.04	183.18	183.21	183.29	183.30	183.28	183.08	182.97
16	183.13	183.01	182.99	183.00	183.05	183.16	183.23	183.22	183.37	183.24	183.13	182.97
17	183.15	183.00	182.95	183.06	183.04	183.13	183.24	183.32	183.35	183.22	183.10	183.00
18	183.13	183.03	182.95	183.11	183.04	183.13	183.23	183.26	183.42	183.20	183.10	183.10
19	183.12	183.04	182.93	183.00	183.06	183.17	183.23	183.23	183.36	183.18	183.08	183.07
20	183.12	183.02	183.01	182.99	183.03	183.12	183.23	183.28	183.29	183.21	183.08	183.01
21	183.09	183.01	182.98	182.98	183.06	183.11	183.24	183.27	183.29	183.21	183.07	182.98
22	183.06	183.02	182.95	183.03	183.07	183.15	183.23	183.27	183.33	183.18	183.11	182.93
23	183.07	182.98	182.94	183.08	183.06	183.17	183.24	183.37	183.29	183.19	183.10	183.04
24	183.09	183.05	182.99	183.04	183.07	183.15	183.25	183.31	183.26	183.20	183.07	182.97
25	183.21	182.99	183.00	183.00	183.07	183.15	183.24	183.30	183.30	183.14	183.11	182.95
26	183.03	183.00	182.99	182.99	183.08	183.15	183.20	183.32	183.27	183.17	183.13	182.95
27	182.99	183.02	182.98	182.99	183.07	183.13	183.21	183.32	183.27	183.15	183.11	182.97
28	183.02	183.00	182.90	183.00	183.08	183.15	183.26	183.26	183.30	183.19	183.06	183.10
29	183.05		182.96	183.04	183.11	183.15	183.23	183.27	183.34	183.22	183.00	183.03
30	183.05		182.99	182.99	183.09	183.18	183.25	183.30	183.26	183.14	183.02	182.93
31	183.04		183.04		183.12		183.22	183.31		183.14		182.96
MEAN	183.12	183.03	182.98	183.01	183.04	183.14	183.21	183.26	183.33	183.23	183.11	183.00
MAX.	183.33	183.18	183.16	183.19	183.21	183.26	183.39	183.46	183.66	183.41	183.37	183.20
	1200/06	0100/04	1800/13	1500/08	2300/31	1500/19	1600/18	2000/23	2300/11	0400/02	1300/10	1700/03
MIN.	182.89	182.92	182.80	182.75	182.87	182.98	183.05	183.11	183.18	183.03	182.80	182.82
	2200/26	0900/23	0600/19	0500/01	1200/09	0800/02	1300/09	1000/16	2000/14	1900/30	2000/13	2100/31

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

ANNUAL MEAN: 183.12

ANNUAL SUMMARY OF LEVELS, 1978
Station 9070: Two Harbors, Minnesota on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST			LOWEST		
Monthly mean elevation:	183.31	Sep	Monthly mean elevation:	182.97	Mar
Daily mean elevation:	183.41	12 Sep	Daily mean elevation:	182.90	1 Apr
Instant/hourly elevation:	183.55	2300/11 Sep	Instant/hourly elevation:	182.79	0500/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.25	6 Jan
183.09	8 Feb
183.04	13 Mar
183.05	9 Apr
183.09	31 May
183.16	30 Jun
183.25	28 Jul
183.31	23 Aug
183.41	12 Sep
183.32	2 Oct
183.20	10 Nov
183.09	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
182.99	27 Jan
182.97	23 Feb
182.90	28 Mar
182.90	1 Apr
182.94	1 May
183.08	7 Jun
183.14	7 Jul
183.19	4 Aug
183.25	24 Sep
183.22	12 Oct
183.00	29 Nov
182.93	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.
183.40									1				183.40	1
183.35									3				183.35	4
183.30								1	11	1			183.30	17
183.25								9	13	9			183.25	48
183.20	2						15	16	1	2			183.20	84
183.15	7					1	11	5			2		183.15	110
183.10	8					19	5				13		183.10	155
183.05	7	4			7	10					12	4	183.05	199
183.00	6	13	2	6	14						2	6	183.00	248
182.95	1	11	20	17	9						1	16	182.95	323
182.90			8	6	1							5	182.90	343
182.85			1	1									182.85	345
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9070: Two Harbors, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.15	183.05	182.97	182.90	182.94	183.08	183.19	183.24	183.31	183.30	183.11*	183.01*
2	183.11	183.05	182.98	183.05	182.97	183.08	183.17	183.20	183.27	183.32	183.15	183.07
3	183.17	183.08	182.97	182.97	183.00	183.09	183.14	183.19	183.29	183.27	183.15	183.09
4	183.16	183.05	182.96	182.93	183.00	183.09	183.15	183.19	183.28	183.27	183.17*	182.99
5	183.21	183.03	182.98	182.98	182.97	183.09	183.16	183.22	183.31*	183.28	183.09*	182.97
6	183.25	183.08	182.98	183.00	182.97	183.08	183.14	183.22	/	183.24	183.11	183.00
7	183.17	183.08	182.99	182.93	183.02	183.08	183.14	183.23	183.34*	183.26	183.14	183.02
8	183.10	183.09	182.96	183.02	183.02	183.09	183.17	183.20	183.32	183.29	183.11	182.99
9	183.08	183.02	182.94	183.05	182.96	183.11	183.15	183.20	183.32	183.28	183.13	182.98
10	183.05	183.00	182.98	182.98	183.02	183.14	183.16	183.23	183.31	183.27	183.20*	182.99
11	183.07	183.01	182.95	182.95	183.01	183.10	183.18	183.23	183.38	183.26	183.11*	183.00
12	183.16	183.02	182.98	182.99	182.99	183.09	183.21	183.22	183.41	183.22*	183.14*	183.00
13	183.18	183.05	183.04	182.92	182.98	183.11	183.17	183.23	183.40	/	183.11*	182.95
14	183.17	182.99	182.98	182.94	183.00	183.14	183.20	183.24	183.30	/	183.04*	183.02
15	183.12	183.00	182.99	182.95	183.02	183.15	183.18	183.26	183.29	/	183.08*	182.97
16	183.12	183.01	182.98	182.99	183.04	183.14	183.21	183.22	183.34	/	183.12*	182.97
17	183.14	182.99	182.94	183.02	183.03	183.11	183.22	183.28	183.32	/	183.08*	183.00
18	183.11	183.01	182.95	183.04	183.03	183.11	183.21	183.24	183.38	/	183.11*	183.07
19	183.11	183.03	182.92	182.97	183.04	183.15	183.22	183.21	183.33	/	183.08*	183.05
20	183.11	183.00	182.99	182.96	183.02	183.11	183.21	183.25	183.28	/	183.08*	183.00
21	183.08	183.00	182.97	182.97	183.04	183.11	183.22	183.25	183.28	/	183.06*	182.98
22	183.06	183.01	182.94	183.00	183.06	183.12	183.21	183.24	183.31	/	183.10	182.93
23	183.07	182.97	182.93	183.04	183.05	183.15	183.22	183.31	183.28	/	183.10*	183.02
24	183.09	183.03	182.97	183.00	183.03*	183.13	183.23	183.27	183.25	/	183.07*	182.96
25	183.19	182.98	182.98	182.98	183.06*	183.14	183.22	183.28	183.29	/	183.09*	182.95
26	183.01	182.99	182.97	182.97	183.06	183.13	183.19	183.29	183.26	/	183.12*	182.95
27	182.99	183.00	182.97	182.98	183.05	183.12	183.20	183.29	183.26	/	183.10*	182.96
28	183.02	182.98	182.90	182.98	183.06	183.13	183.25	183.25*	183.28	/	183.06*	183.08
29	183.04		182.95	183.00	183.09	183.14	183.21	183.26	183.32	/	183.00*	183.03
30	183.04		182.97	182.97	183.08	183.16	183.23	183.29	183.26	/	183.01*	182.93
31	183.03		183.01		183.09		183.22	183.30		/		182.96
MEAN	183.11	183.02	182.97	182.98	183.02	183.12	183.19	183.24	183.31	183.27	183.10	183.00
MAX.	183.31	183.15	183.10	183.12	183.16	183.22	183.35	183.44	183.55	183.40	183.29	183.16
	1100/06	0100/04	1800/13	2400/02	2400/31	1400/19	1600/18	0400/23	2300/11	0400/02	1200/10	0100/29
MIN.	182.89	182.93	182.82	182.79	182.86	182.99	183.07	183.10	183.19	183.18	182.86	182.83
	2200/26	0900/25	0300/19	0500/01	1100/09	0700/02	2000/19	0900/19	2000/26	1900/11	2000/13	1400/22

ANNUAL MEAN: 183.11

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

ANNUAL SUMMARY OF LEVELS, 1978
Station 9090: Grand Marais, Minnesota on Lake Superior

INTERNATIONAL
GREAT LAKES
DATUM (1955)

HIGHEST

Monthly mean elevation:	183.27	Sep
Daily mean elevation:	183.33	13 Sep
Instant/hourly elevation:	183.40	2300/12 Sep

LOWEST

Monthly mean elevation:	182.94	Mar
Daily mean elevation:	182.89	1 Apr
Instant/hourly elevation:	182.79	0600/1 Apr

HIGHEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.20	6 Jan
183.04	3 Feb
182.97	15 Mar
182.99	9 Apr
183.05	31 May
183.12	30 Jun
183.19	31 Jul
183.26	27 Aug
183.33	13 Sep
183.29	2 Oct
183.13	4 Nov
183.04	3 Dec

LOWEST DAILY MEAN FOR EACH MONTH

Elev.	Date
183.00	27 Jan
182.96	28 Feb
182.90	28 Mar
182.89	1 Apr
182.92	1 May
183.05	7 Jun
183.11	7 Jul
183.18	19 Aug
183.23	30 Sep
183.11	31 Oct
183.00	29 Nov
182.92	30 Dec

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

Elev. (m.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
183.30									3			
183.25								1	16	3		
183.20								13	11	11		
183.15	2						19	17		10		
183.10	11					5	12			7	6	
183.05	12					23					17	
183.00	4	8			12	2					6	4
182.95	2	20	9	10	12						1	20
182.90			21	19	7							7
182.85			1	1								

Elev. (m.)	No. of days above elev.
183.30	3
183.25	23
183.20	58
183.15	106
183.10	147
183.05	199
183.00	235
182.95	309
182.90	363
182.85	365
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INTERNATIONAL
GREAT LAKES
DATUM (1955)

DAILY MEAN WATER LEVELS, MONTHLY MEANS AND EXTREMES, 1978

Station 9090: Grand Marais, Minnesota on Lake Superior

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	183.14	183.03	182.96	182.89	182.92	183.06	183.13	183.20	183.27	183.26	183.11	183.00
2	183.12	183.03	182.96	182.98	182.94	183.05	183.12	183.18	183.25	183.29	183.12	183.03
3	183.15	183.04	182.95	182.94	182.95	183.07	183.11	183.18	183.24*	183.26	183.12	183.04
4	183.13	183.03	182.95	182.92	182.95	183.06	183.11	183.18	183.23*	183.25	183.13	183.00
5	183.17	183.00	182.96	182.94	182.93	183.07	183.13	183.18	183.25	183.24	183.09	182.98
6	183.20	183.03	182.95	182.97	182.93	183.07	183.12	183.18	183.25	183.21	183.09	182.99
7	183.15	183.02	182.96	182.92	182.96	183.05	183.11	183.19	183.28	183.22	183.11	183.01
8	183.10	183.03	182.95	182.96	182.98	183.08	183.13	183.18	183.26	183.25	183.10	182.97
9	183.07	183.00	182.94	182.99	182.94	183.07	183.14	183.18	183.28	183.24	183.09	182.97
10	183.06	183.00	182.96	182.97	182.99	183.11	183.14	183.19	183.26	183.24	183.11	182.98
11	183.08	182.99	182.94	182.94	182.99	183.08	183.15	183.19	183.31	183.24	183.07	182.98
12	183.13	183.00	182.95	182.97	182.96	183.06	183.17	183.18	183.32	183.18	183.09	182.99
13	183.13	183.01	182.97	182.92	182.96	183.07	183.15	183.19	183.33	183.20	183.09	182.96
14	183.12	182.98	182.95	182.92	182.98	183.09	183.16	183.20	183.30	183.21	183.04	182.99
15	183.11	182.99	182.97	182.93	182.99	183.11	183.16	183.21	183.27	183.22	183.06	182.97
16	183.09	182.99	182.95	182.95	183.00	183.11	183.17	183.19	183.29	183.21	183.09	182.96
17	183.11	182.98	182.93	182.96	183.00	183.09	183.17	183.22	183.28	183.19	183.07	182.97
18	183.10	182.99	182.95	182.96	183.00	183.09	183.18	183.21	183.30	183.17	183.07	182.98
19	183.09	183.00	182.91	182.94	183.01	183.11	183.18	183.18	183.30	183.17	183.05	182.99
20	183.09	182.98	182.96	182.93	183.00	183.10	183.18	183.21	183.26	183.19	183.06	182.96
21	183.08	182.98	182.94	182.93	183.01	183.09	183.18	183.21	183.25	183.19	183.04	182.97
22	183.06	182.99	182.93	182.96	183.02	183.08	183.17	183.19	183.27	183.15	183.06	182.93
23	183.07	182.96	182.91	182.97	183.01	183.10	183.18	183.25	183.26	183.17	183.06	182.96
24	183.07	182.99	182.94	182.95	183.01	183.10	183.19	183.24	183.23	183.19	183.04	182.93
25	183.12	182.96	182.94	182.94	183.03	183.10	183.19	183.25	183.26	183.13	183.06	182.92
26	183.00	182.97	182.94	182.94	183.02	183.10	183.18	183.25	183.25	183.15	183.08	182.94
27	183.00	182.98	182.94	182.95	183.03	183.10	183.16	183.26	183.24	183.14	183.07	182.94
28	183.01	182.96	182.90	182.95	183.02	183.10	183.19	183.24	183.24	183.14	183.05	183.00
29	183.02		182.92	182.95	183.05	183.10	183.17	183.25	183.28	183.17	183.00	183.01
30	183.03		182.93	182.93	183.05	183.12	183.19	183.25	183.23	183.14	183.01	182.92
31	183.01		182.96		183.05		183.19	183.25		183.11		182.93
MEAN	183.09	183.00	182.94	182.95	182.99	183.09	183.16	183.21	183.27	183.20	183.07	182.97
MAX.	183.27	183.11	183.03	183.05	183.13	183.18	183.30	183.36	183.40	183.33	183.22	183.12
	1100/05	2400/03	1100/18	0600/10	2400/31	1200/25	1500/18	0500/23	2300/12	0300/02	0500/05	1000/19
MIN.	182.94	182.93	182.82	182.79	182.86	183.00	183.05	183.11	183.20	183.06	182.93	182.83
	2300/27	0900/25	0400/19	0600/01	1100/07	0700/07	0900/04	0900/15	0800/30	1700/30	2200/13	0300/30

ANNUAL MEAN: 183.08

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