

Data On the Great Lakes System

GENERAL LAKE DIMENSION	LAKE SUPERIOR	LAKE MICHIGAN	LAKE HURON	LAKE ST. CLAIR	LAKE ERIE	LAKE ONTARIO
Length in miles	350	307	206	26	241	193
Breadth in miles	180	183	26	24	57	53
Length in coastline (including islands)	2,730	1,640	3,830	237	871	712
Area in square miles	20,600	22,300	11,500	1,967	4,930	3,660
Water Surface, United States	11,000	13,000	20,000	2,927	4,930	3,900
Water Surface, Canada	9,600	9,300	1,500	0	0	0
Drainage Basin Land, United States	16,000	45,000	16,200	2,800	18,000	12,000
Drainage Basin Land, Canada	16,000	45,000	16,200	2,800	18,000	12,000
Drainage Basin Land, Total	49,000	45,000	51,200	6,300	22,700	27,300
Drainage Basin, Land & Water Total	81,000	67,000	74,000	7,200	32,600	38,000
Maximum Depth, Feet	1,333	93	750	219	210	802
Average Depth, Feet	489	279	195	10	62	283
Volume of Water in Cubic Miles	2,935	1,810	849	1	116	393

LENGTH OF "OUTFLOW"
MILES (APPROX)

St. Marys	70					
St. Clair						
Detroit				32	37	
Niagara						502

(1) Measured at wide point through Green Bay.
(2) Measured at wide point through Georgian Bay.
(3) Includes Georgian Bay and North Channel.
(4) Including St. Marys River above Brash Point.
(5) Lake Michigan including Georgian Bay.
(6) Including St. Marys River below Brash Point.
(7) Lake St. Clair, St. Clair and Detroit Rivers.
(8) Lake Ontario including Niagara River and St. Lawrence River above Iroquois Dam.
(9) Maximum natural depth. Dredged national channel 27.5 foot depth.
*Length shown under Lake from which it flows.

Chart Number Title Scale

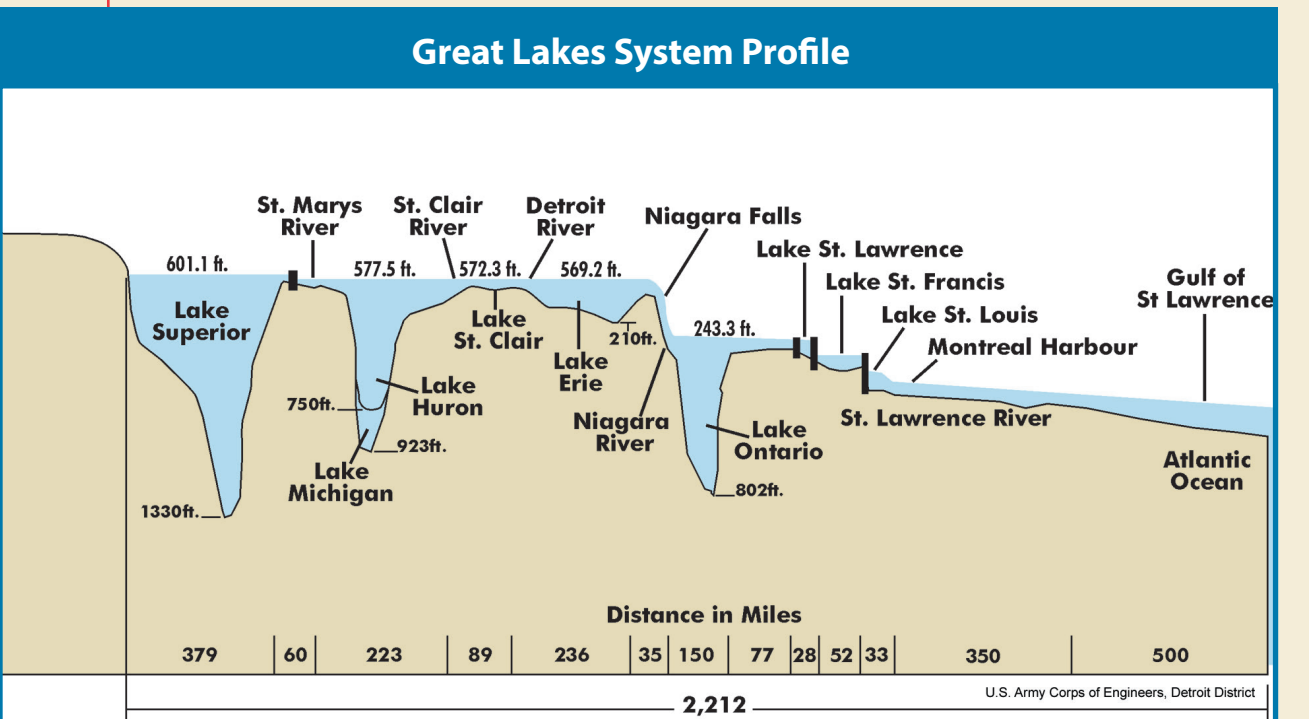
14500	Great Lakes—Lake Champlain to Lake of the Woods	1:1,500,000
14501	ST. LAWRENCE RIVER	1:1,500,000
14770	Buttermilk Bay, Ont., to Buttermilk Bay, Ont.	1:15,000
14771	Buttermilk Bay, Ont., to Iroquois Island, N.Y.	1:15,000
14772	Iroquois Island, N.Y., to Iroquois Island, Ont.	1:15,000
14773	Genesee, Ont., to St. Lawrence Park, N.Y.	1:15,000
14774	Rouss Island, N.Y., and Genesee, Ont., to Wolfe I., Ont.	1:15,000
14775	LAKE CHAMPLAIN	1:15,000
14781	River Richelieu to South Hero Island	1:60,000
14782	Combed Head to Four Brothers Islands	1:60,000
14783	Four Brothers Islands to Barber Point	1:60,000
14784	Barber Point to Whitehall	1:60,000
14785	Burlington Harbor	1:10,000
14786	NEW YORK STATE CANAL SYSTEM	Various
14787	SMALL CRAFT BOOK CHART	Various
14788	Hudson River New York to Westport Creek	1:60,000
14789	Chesapeake Bay to Chesapeake Bay	1:60,000
14791	Cuyuga and Seneca Lakes	1:60,000
14792	Seneca Lake	1:60,000
14793	Seneca Lake	1:60,000
14794	Seneca Lake	1:60,000
14795	Seneca Lake	1:60,000
14796	Seneca Lake	1:60,000
14797	Seneca Lake	1:60,000
14798	Seneca Lake	1:60,000
14799	Seneca Lake	1:60,000
14800	LAKE ONTARIO (Metric)	1:60,000
14801	Clayton to Fallis Docks Island	1:60,000
14802	Sea Mile south of Stony Point to Port Bay	1:60,000
14803	North Pond	1:60,000
14804	Port Bay to Long Point	1:60,000
14805	Port Bay Harbor	1:60,000
14806	Long Point to Thyrville Point	1:60,000
14807	Point Pelee Harbor	1:60,000
14808	Thyrville Point, New York, to Port Dalhousie, Ontario	1:60,000
14809	Wilson Harbor	1:60,000
14810	Onondaga, New York to Toronto, Ontario (Metric)	1:60,000
14811	Onondaga, New York to Toronto, Ontario (Metric)	1:60,000
14812	Onondaga, New York to Toronto, Ontario (Metric)	1:60,000
14813	Onondaga, New York to Toronto, Ontario (Metric)	1:60,000
14814	Onondaga, New York to Toronto, Ontario (Metric)	1:60,000
14815	Onondaga, New York to Toronto, Ontario (Metric)	1:60,000
14816	Lower Niagara River	1:60,000
14817	LAKE ERIE	1:60,000
14818	LAKE ERIE	1:60,000
14819	LAKE ERIE	1:60,000
14820	LAKE ERIE	1:60,000
14821	LAKE ERIE	1:60,000
14822	Approaches to Niagara River and Welland Canal	1:60,000
14823	Shoreline from Toronto to Welland Canal	1:60,000
14824	Welland Canal	1:60,000
14825	Welland Canal	1:60,000
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14846	Welland Canal	1:60,000

Chart Number Title Scale

14847	Toledo Harbor	1:20,000
14848	Entrance Channel	1:40,000
14849	Lake Winnebago and Lower Fox River (book of 34 charts)	1:15,000
14850	Lake St. Clair	1:60,000
14851	St. Clair River	1:60,000
14852	Head of St. Clair River	1:15,000
14853	SMALL CRAFT BOOK CHART	Various
14854	Detroit River Lake St. Clair and St. Clair River (book of 47 charts)	Various
14855	Traverse Channel and River Rouge	1:15,000
14856	LAKE HURON	1:500,000
14857	Port Huron to Pelee Islands	1:20,000
14858	Port Sanilac Harbor	1:10,000
14859	Harbor Beach	1:10,000
14860	Saginaw Bay	1:10,000
14861	Calumet and Indiana Harbors	1:15,000
14862	Canfield Harbor	1:10,000
14863	Sebewaing Harbor	1:20,000
14864	Entrance to Au Sable River	1:20,000
14865	St. Ignace Harbor	1:15,000
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14913	St. Ignace Harbor	1:15,000

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14914	Little Bay de Noc	1:30,000
14915	SMALL CRAFT BOOK CHART	Various
14916	Lake Winnebago and Lower Fox River (book of 34 charts)	Various
14917	Manitowish and Marinette Harbors	1:15,000
14918	Head of Fox River including Fox River below De Pere	1:25,000
14919	Green Bay	1:10,000
14920	Sturgeon Bay and Canal	1:20,000
14921	Sturgeon Bay	1:10,000
14922	Manitowish and Sheboygan	1:15,000
14923	Milwaukee Harbor	1:10,000
14924	Racine Harbor	1:10,000
14925	Chicago and South Shore of Lake Michigan (book of 30 charts)	Various
14926	Chicago Harbor	1:60,000
14927	Gary Harbor	1:15,000
14928	Chicago Harbor	1:15,000
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15000	Chicago Harbor	1:15,000



The Great Lakes and connecting channels

Four of the five Great Lakes are at different elevations, leading like a series of steps toward the Atlantic Ocean. The five individual lakes are connected to each other through channels, forming one system. Water continually flows from the headwaters of the Lake Superior basin through the remainder of this system.

The St. Marys River is a 40-mile waterway flowing from Lake Superior down to Lake Huron, descending more than 20 feet in elevation. Lakes Michigan and Huron are connected by the deep Straits of Mackinac, and are considered to be one lake hydraulically with lake levels rising and falling together. The St. Clair and Detroit rivers, and Lake St. Clair between them, form an 89-mile long channel connecting Lake Huron with Lake Erie. The fall between Lake Huron and Lake Erie is only 8 feet. The 35-mile Niagara River links lakes Erie and Ontario, with the majority of the 225-foot difference in elevation occurring at Niagara Falls. The man-made Welland Canal also links the two lakes, providing a detour around Niagara Falls. From Ontario, water flows into the St. Lawrence River, which converges with the Ottawa River near Montreal to flow to the Atlantic Ocean.

Navigational Data

Waterway	Depth	Width	Length	Vertical Clearance	Number of Locks	Notes