

Lake Data

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The following four tables give a comparison of the Elk River Chain-of-Lakes, the Elk River Chain-of-Lakes with other large inland lakes in Michigan, Torch Lake and the Great Lakes with the other largest freshwater lakes in the United States, and finally, the Great Lakes with all the largest freshwater lakes in the world. Reservoirs are excluded.

Comparison of Elk River Chain-of-Lakes

Order in Chain	Lake	Area (acres)	Volume (acre-ft)	Avg. Depth (ft)	Max. Depth (ft)	Perim. (miles)	Watershed Area (acres)	No. Parcels (1997)	Devel. Parcels (1997)
1	Beals	41	410	10	17	1	10,750	15	5
2	Scotts	63	819	13	25	2	1,250	43	30
3	Six Mile	378	4,914	13	31	9	10,250	288	196
4	St. Clair	91	910	10	32	2	4,500	60	40
5	Ellsworth	120	2,040	17	42	4	9,000	55	26
6	Wilson	106	1,272	12	48	5	12,750	74	39
7	Benway	131	1,965	15	42	3	4,500	91	57
8	Hanley	93	1,023	11	27	4	3,250	104	52
9	Intermediate	1,520	42,560	28	80	15	20,750	498	407
10	Bellaire	1,793	75,306	42	95	12	28,250	278	205
11	Clam	439	5,707	13	27	9	23,750	258	170
12	Torch	18,473	2,586,220	140	300	41	29,500	1,737	1,351
13	Skegemog	2,560	30,720	12	29	11	119,500	187	149
14	Elk	7,730	548,830	71	192	26	16,500	859	672
	Total	33,538	3,302,696	-----	-----	144	294,500	4,547	3,399

Total [Lake area + Watershed area] = 512 sq. mi.
 (Devel. Parcels)/(No. Parcels) = 75%

Comparison of Michigan Inland Lakes

Rank by Volume	Lake	County	Area (acres)	Volume (acre-ft)	Avg. Depth (ft)	Max. Depth (ft)
1	Torch	Antrim/Kalkaska	18,770	2,627,800	140	300
2	Charlevoix	Charlevoix	17,260	983,820	57	120
3	Crystal	Benzie	9,800	558,600	57	160
4	Elk	Kalk/Grand Trav.	7,730	548,830	71	192
5	Higgins	Roscommon	10,070	523,640	52	135
6	Burt	Cheboygan	17,440	453,440	26	73
7	Portage	Houghton	10,800	324,000	30	54
8	Leelanau	Leelanau	8,600	318,200	37	62
9	Hubbard	Alcona	8,790	316,440	36	101
10	Glen	Leelanau	4,870	282,460	58	130
11	Black	Cheboygan	10,150	253,750	25	50
12	Gogebic	Gogebic	12,800	230,400	18	37
13	Mullett	Chebovgan	16,600	199,200	12	73
14	Houghton	Roscommon	19,900	159,200	8	21
15	Walloon	Charlevoix	4,300	124,700	29	100
16	Manistique	Luce/Mackinac	10,400	93,600	9	20
17	Torch	Houghton	2,660	85,120	32	120
18	Gull	Barry	2,040	81,600	40	110
19	Bellaire	Antrim	1,800	77,400	43	95
20	Indian	Schoolcraft	8,540	68,320	8	15
21	Platte	Benzie	2,520	68,040	27	95
22	Muskegon	Muskegon	4,150	112,050	16	70
23	Long	Alpena	5,260	84,160	12	25
24	Hamlin	Mason	4,990	59,880	12	80
25	Grand	Presque Isle	5,920	71,040	10	25
26	Green	Grand Traverse	2,000	20,000	27	102
27	Lac Vieux Desert	Gogebic/Vilas,Wis	4,400	118,800	12	38
28	Duck	Grand Traverse	1,930	23,160	24	95
29	South Manistique	Mackinac	4,110	98,640	11	29
30	Douglas	Cheboygan	3,400	37,400	13	80
Total			232,560	8,844,490		

(Torch Lake Vol.)/(All Inland Lake Vol.) = 26%

(ERCOL Volume)/(All Inland Lake Vol.) = 33%

(Antrim,Emmet,Cheboygan,Charlevoix Lakes)/
(All Inland Lake Vol.) = 54%

(Antrim,Emmet,Cheboygan,Charlevoix,Benzie,Grand Traverse Lakes)/
(All Inland Lake Vol.) = 66%

Comparison of United States Freshwater Lakes

Rank by Volume	Lake	State	Area (acres)	Volume (acre-ft)	Avg. Depth (ft)	Max. Depth (ft)
1	Superior	Michigan/Ont.	20,480,000	10,035,200,000	490	1,330
2	Michigan	Michigan/Wisc.	14,270,000	3,995,600,000	280	930
3	Huron	Michigan/Ont.	14,720,000	2,944,000,000	200	750
4	Ontario	New York/Ont.	4,670,000	1,307,600,000	280	800
5	Erie	Ohio/Ontario	6,334,000	380,040,000	60	210
6	Tahoe	California/Nev.	125,000	128,125,000	1,025	1,650
7	Iliamna	Alaska	648,000	93,312,000	144	900
8	Becharof	Alaska	286,000	53,196,000	186	?
9	Pend Oreille	Idaho	86,000	45,064,000	524	1,171
10	Clark	Alaska	82,000	26,568,000	324	?
11	Lake of the Woods	Minnesota/Ont.	950,400	23,760,000	25	36
12	Pyramid	Nevada	113,000	22,035,000	195	295
13	Flathead	Montana	126,000	20,790,000	165	320
14	Champlain	New York/Vt.	278,000	17,792,000	64	400
15	Crater	Oregon	13,000	14,950,000	1,150	1,950
16	Chelan	Washington	33,750	13,601,250	403	1,485
17	Seneca	New York	42,800	12,412,000	290	650
18	Yellowstone	Wyoming	87,000	12,180,000	140	320
19	Cayuga	New York	43,000	7,740,000	180	435
20	Rainy	Minnesota/Ont.	220,800	7,065,600	32	161
21	Bear	Idaho/Utah	58,000	6,032,000	104	213
22	Lower Ugashik	Alaska	45,500	5,323,500	117	390
23	Pontchartrain	Louisiana	400,000	5,200,000	13	?
24	Upper Ugashik	Alaska	49,800	4,681,200	94	490
25	Okeechobee	Florida	467,000	4,203,000	9	15
26	Moosehead	Maine	75,500	4,152,500	55	245
27	St. Clair	Michigan/Ont.	278,000	3,336,000	12	20
28	Sebago	Maine	30,500	3,263,500	107	315
29	Priest	Idaho	23,400	2,878,200	123	369
30	Mille Lacs	Minnesota	133,000	2,793,000	21	36
31	Torch	Michigan	18,800	2,632,000	140	300
Total			65,188,250	19,205,525,750		

Note: There are at least eight more Alaskan lakes that are probably larger than Torch but about which little is known besides the area.

(Vol. of the Great Lakes)/(Vol. of all Inland Freshwater Lakes in the US) = 97%

Comparison of World Freshwater Lakes

Rank by Volume	Lake (salinity)	Country	Area (acres)	Volume (acre-ft)	Avg. Depth (ft)	Max. Depth (ft)
1	Baikal	Russia	7,808,000	18,692,352,000	2,394	5,710
2	Tanganvika	Tanzania/Zair	8,000,000	14,592,000,000	1,824	4,825
3	Superior	USA/Canada	20,480,000	10,035,200,000	490	1,330
4	Nvasa (Malawi)	Tanzania/Mal	7,610,000	6,985,980,000	918	2,315
5	Voshtok (under ice)	Russia/Antarc	3,500,000	4,200,000,000	1,200	2,500
6	Michigan	USA	14,270,000	3,995,600,000	280	930
7	Huron	USA/Canada	14,720,000	2,944,000,000	200	750
8	Victoria	Tanzania/Uga	17,200,000	2,253,200,000	131	276
9	Great Bear	Canada	7,788,000	1,837,968,000	236	1,462
10	Great Slave	Canada	7,142,000	1,706,938,000	239	2,014
11	Ontario	USA/Canada	4,670,000	1,307,600,000	280	800
12	Ladoga	Russia	4,534,000	743,576,000	164	754
13	Titicaca	Bolivia/Peru	2,093,000	734,643,000	351	922
14	Netilling (ice cover)	Canada	1,300,000	650,000,000	500	
15	Hovsgol	Mongolia	647,000	388,200,000	600	807
16	Erie	USA/Canada	6,334,000	380,040,000	60	210
17	Hubsugul	Mongolia	693,000	313,236,000	452	876
18	Melville	Canada	770,000	308,000,000	400	840
19	Kivu	Rwanda/Zaire	555,000	273,060,000	492	1,574
20	Winnipeg	Canada	5,938,000	231,582,000	39	118
21	Onega	Russia	2,473,000	227,516,000	92	394
22	Maracaibo (0.1-1%)	Venezuela	3,278,000	232,738,000	71	197
23	Toba	Sumatera	276,000	220,800,000	800	1,800
24	Viedma	Argentina	273,000	207,207,000	759	997
25	Nipigon	Canada	1,128,000	203,040,000	180	541
26	Argentino	Argentina	367,000	180,564,000	492	1,640
27	Rudolf	Ethiopia	1,600,000	153,600,000	96	239
28	Athabasca	Canada	1,975,000	142,200,000	72	336
29	Mistassini	Canada	529,000	132,250,000	250	600
30	Llanquihue	Chile	217,000	129,549,000	597	1,040
Total			148,168.00	74,402,639,000		

Estimates in blue

(Volume of the Great Lakes)/(Volume of All World Freshwater Lakes) = 25%

For further information regarding the Three Lakes Association water quality modeling visit the website www.3Lakes.com or call 533-4852.