

Open Water Creel Survey Report for Lake Gogebic, Gogebic and Ottawa Counties, 2017

Waterbody	LakeGogebic
Year	2017
County	Gogebic and Ottawa
Sites	120, 121
Survey period	May 1 to October 31
Survey design	Roving (instantaneous)-roving
Count methods/modes	Roving (instantaneous)/boat and shore
Clerk time	full time
Survey purpose	Characterize general effort and catch aspects of the fishery

Notes

Survey followed a roving (instantaneous)-roving design. Funding was provided by the Federal Aid to Sport Fish Restoration Project F-81, Study 230499. One clerk worked full time to collect angling survey data. Two weekend days and 3 week days were randomly selected for sampling during each week of the survey season. No holidays were sampled. The clerk followed a randomized count and interview schedule. One of two shifts was selected each sample day. Lake Gogebic was divided into 2 sites: 120 and 121. Both sites were sampled each scheduled day. Starting location within a section and direction of travel were randomized for both counting and interviewing. Roving (instantaneous) counts of boat and shore anglers were made once per day. Survey period for both counts and interviews was May 1 to October 31. Months were estimated separately. “**NAN**” in a table means there was insufficeint data to make an estimate.

Table 1.–Daylight hours used to estimate catch and effort for the Lake Gogebic open water creel survey, May 1 to October 31, 2017.

Year	Month	Daylight Hours
2017	5	15
2017	6	16
2017	7	16
2017	8	15
2017	9	13
2017	10	11

Table 2.—Estimated harvest, catch per hour, and fishing pressure for boat angling on Lake Gogebic. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
HARVEST								
Walleye	0.1992	4,788	5,724	6,975	2,800	1,361	147	21,794
	0.0417	2,075	2,055	1,770	874	564	119	3,572
Northern Pike	0.0015	–	27	–	77	9	51	163
	0.0014	–	51	–	95	19	102	149
Smallmouth Bass	0.0139	128	292	598	318	145	37	1,518
	0.0064	217	361	414	277	131	74	670
Yellow Perch	0.1303	400	2,033	7,171	2,625	1,825	205	14,259
	0.0444	453	1,316	4,045	1,126	760	206	4,493
Bluegill	0.0338	–	2,346	616	341	274	121	3,698
	0.0261	–	2,707	618	412	217	145	2,819
Pumpkinseed	0.0750	–	2,975	1,430	1,595	2,159	44	8,202
	0.0306	–	2,337	1,229	1,199	1,274	71	3,168
Rock Bass	0.0014	–	119	–	–	30	–	150
	0.0023	–	239	–	–	61	–	246
Black Crappie	0.0050	146	119	33	164	88	–	550
	0.0038	217	230	65	222	124	–	411
Cisco	0.0003	–	–	–	33	–	–	33
	0.0006	–	–	–	66	–	–	66
TOTAL HARVEST	0.4604	5,462	13,634	16,823	7,951	5,891	604	50,366
	0.0889	2,146	4,357	4,644	1,944	1,613	314	7,186
RELEASED								
Walleye	0.2856	6,280	4,908	11,065	5,840	2,971	172	31,236
	0.0643	3,244	2,632	3,363	1,728	1,059	188	5,736
Northern Pike	0.0823	2,951	1,380	1,647	1,300	1,316	405	9,000
	0.0227	1,782	746	658	535	518	310	2,194
Largemouth Bass	0.0013	–	93	–	18	–	30	141
	0.0015	–	142	–	37	–	61	159
Smallmouth Bass	0.0954	1,278	2,487	3,002	1,587	1,686	396	10,436
	0.0257	941	1,558	1,177	732	749	506	2,460
Yellow Perch	0.1371	79	4,689	5,961	1,711	2,197	355	14,993
	0.0508	119	4,269	2,471	994	1,308	274	5,208
Bluegill	0.0195	–	701	376	845	198	17	2,137
	0.0127	–	793	532	928	251	34	1,356
Pumpkinseed	0.0809	56	2,642	1,518	2,468	1,821	348	8,852
	0.0360	82	1,643	2,525	1,901	1,150	347	3,760
Rock Bass	0.0198	–	1,034	541	373	191	24	2,164
	0.0095	–	818	439	308	212	48	1,002
Black Crappie	0.0013	49	–	41	48	–	–	138
	0.0014	97	–	64	97	–	–	151
Common White Sucker	0.0001	–	–	8	–	–	–	8
	0.0001	–	–	16	–	–	–	16
TOTAL RELEASED	0.7234	10,693	17,935	24,158	14,214	10,382	1,748	79,131
	0.1274	3,823	5,671	5,108	3,062	2,257	769	9,377
TOTAL CATCH	1.1838	16,155	31,569	40,981	22,166	16,273	2,352	129,496
	0.1882	4,384	7,151	6,903	3,627	2,774	830	11,814
ANGLER HOURS		17,643	21,358	30,295	19,845	17,412	2,835	109,388
		5,579	3,880	3,486	2,745	2,895	NAN	14,243
ANGLER TRIPS		5,249	4,733	7,707	4,217	4,050	635	26,590
		1,747	1,085	1,883	862	870	NAN	3,965

Table 3.—Estimated harvest, catch per hour, and fishing pressure for pier/dock angling on Lake Gogebic. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
HARVEST								
Walleye	0.0024	–	16	–	–	–	–	16
	0.0048	–	32	–	–	–	–	32
Smallmouth Bass	0.0025	–	–	–	17	–	–	17
	0.0100	–	–	–	NAN	–	–	66
Yellow Perch	0.0120	–	80	–	–	–	–	80
	0.0241	–	160	–	–	–	–	160
Pumpkinseed	0.0120	–	80	–	–	–	–	80
	0.0241	–	160	–	–	–	–	160
TOTAL HARVEST	0.0289	–	176	–	17	–	–	193
	0.0360	–	229	–	NAN	–	–	238
RELEASED								
Northern Pike	0.0161	–	91	–	17	–	–	107
	0.0174	–	93	–	NAN	–	–	115
Smallmouth Bass	0.0040	–	27	–	–	–	–	27
	0.0080	–	53	–	–	–	–	53
TOTAL RELEASED	0.0201	–	117	–	17	–	–	134
	0.0192	–	108	–	NAN	–	–	126
TOTAL CATCH	0.0491	–	293	–	33	–	–	326
	0.0411	–	253	–	NAN	–	–	269
ANGLER HOURS		1,137	1,205	1,776	1,180	772	586	6,656
		584	356	432	342	277	245	953
ANGLER TRIPS		325	342	516	359	214	168	1,924
		231	197	317	287	133	120	554

Table 4.—Estimated harvest, catch per hour, and fishing pressure for shore angling on Lake Gogebic. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
HARVEST								
Yellow Perch	0.0748	60	—	—	—	—	—	60
	0.1535	119	—	—	—	—	—	119
Pumpkinseed	0.0374	30	—	—	—	—	—	30
	0.0767	60	—	—	—	—	—	60
TOTAL HARVEST	0.1122	89	—	—	—	—	—	89
	0.1750	133	—	—	—	—	—	133
RELEASED								
Walleye	0.0249	20	—	—	—	—	—	20
	0.0512	40	—	—	—	—	—	40
Northern Pike	0.0927	74	—	—	—	—	—	74
	0.1296	98	—	—	—	—	—	98
Smallmouth Bass	0.0249	20	—	—	—	—	—	20
	0.0512	40	—	—	—	—	—	40
Yellow Perch	0.0499	40	—	—	—	—	—	40
	0.1023	79	—	—	—	—	—	79
TOTAL RELEASED	0.1924	153	—	—	—	—	—	153
	0.1941	138	—	—	—	—	—	138
TOTAL CATCH	0.3046	243	—	—	—	—	—	243
	0.2782	192	—	—	—	—	—	192
ANGLER HOURS		545	41	66	37	51	56	797
		337	47	75	74	55	59	365
ANGLER TRIPS		213	10	34	9	31	13	310
		138	11	55	18	40	14	156

Table 5.—Estimated harvest, catch per hour, and fishing pressure for Lake Gogebic all angling modes combined. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
HARVEST								
Walleye	0.1867	4,788	5,740	6,975	2,800	1,361	147	21,810
	0.0403	2,075	2,055	1,770	874	564	119	3,572
Northern Pike	0.0014	–	27	–	77	9	51	163
	0.0013	–	51	–	95	19	102	149
Smallmouth Bass	0.0131	128	292	598	334	145	37	1,534
	0.0127	217	361	414	NAN	131	74	1,469
Yellow Perch	0.1232	460	2,113	7,171	2,625	1,825	205	14,398
	0.0422	469	1,325	4,045	1,126	760	206	4,497
Bluegill	0.0316	–	2,346	616	341	274	121	3,698
	0.0245	–	2,707	618	412	217	145	2,819
Pumpkinseed	0.0711	30	3,055	1,430	1,595	2,159	44	8,312
	0.0289	60	2,342	1,229	1,199	1,274	71	3,173
Rock Bass	0.0013	–	119	–	–	30	–	150
	0.0021	–	239	–	–	61	–	246
Black Crappie	0.0047	146	119	33	164	88	–	550
	0.0036	217	230	65	222	124	–	411
Cisco	0.0003	–	–	–	33	–	–	33
	0.0006	–	–	–	66	–	–	66
TOTAL HARVEST	0.4335	5,551	13,810	16,823	7,968	5,891	604	50,648
	0.2857	2,150	4,363	4,644	NAN	1,613	314	32,615
RELEASED								
Walleye	0.2675	6,300	4,908	11,065	5,840	2,971	172	31,256
	0.0618	3,245	2,632	3,363	1,728	1,059	188	5,737
Northern Pike	0.0786	3,025	1,471	1,647	1,316	1,316	405	9,181
	0.0499	1,784	752	658	NAN	518	310	5,681
Largemouth Bass	0.0012	–	93	–	18	–	30	141
	0.0014	–	142	–	37	–	61	159
Smallmouth Bass	0.0897	1,297	2,514	3,002	1,587	1,686	396	10,483
	0.0245	941	1,559	1,177	732	749	506	2,461
Yellow Perch	0.1287	119	4,689	5,961	1,711	2,197	355	15,033
	0.0481	143	4,269	2,471	994	1,308	274	5,208
Bluegill	0.0183	–	701	376	845	198	17	2,137
	0.0119	–	793	532	928	251	34	1,356
Pumpkinseed	0.0758	56	2,642	1,518	2,468	1,821	348	8,852
	0.0339	82	1,643	2,525	1,901	1,150	347	3,760
Rock Bass	0.0185	–	1,034	541	373	191	24	2,164
	0.0090	–	818	439	308	212	48	1,002
Black Crappie	0.0012	49	–	41	48	–	–	138
	0.0013	97	–	64	97	–	–	151
Common White Sucker	0.0001	–	–	8	–	–	–	8
	0.0001	–	–	16	–	–	–	16
TOTAL RELEASED	0.6797	10,846	18,052	24,158	14,231	10,382	1,748	79,418
	0.5022	3,825	5,672	5,108	NAN	2,257	769	57,610
TOTAL CATCH	1.1132	16,397	31,862	40,981	22,199	16,273	2,352	130,065
	0.5877	4,388	7,156	6,903	NAN	2,774	830	66,202
ANGLER HOURS		19,325	22,604	32,138	21,062	18,235	3,477	116,840
		5,620	3,897	3,514	2,768	2,909	NAN	16,391
ANGLER TRIPS		5,787	5,084	8,257	4,585	4,295	816	28,824
		1,767	1,103	1,911	909	881	NAN	4,498