

## Survey Report for Lake Gogebic, Gogebic and Ontonagon counties, 2015

<b>Waterbody</b>	Lake Gogebic
<b>Year</b>	2015
<b>County</b>	Gogebic and Ontonagon
<b>Sites</b>	Site 120 (north half), Site 121 (south half)
<b>Survey period</b>	May 1 to September 30
<b>Survey design</b>	Roving (instantaneous)-roving
<b>Count methods/modes</b>	Roving (instantaneous)/boat, shore, and pier/dock
<b>Clerk time</b>	full time
<b>Survey purpose</b>	Characterize general effort and catch aspects of the fishery

### Notes:

This 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. Clerks followed a randomized count and interview schedule. One of two shifts was selected each sample day. Lake Gogebic was divided into 2 sections divided by the county boundary between Ontonagon and Gogebic counties: Site 120 is the north half of the lake in Ontonagon County and in the Eastern Time Zone; and Site 121 is the south half of the lake in Gogebic County and in the Central Time Zone. One site was sampled each day on a random schedule. The starting location within a section and direction of travel were randomized for both counting and interviewing. Roving (instantaneous) counts of boat, shore, and pier/dock anglers were made once per day. The survey period for both counts and interviews was May 1 to September 30. Estimates are available for boat, shore, pier/dock, and the total fishery. **NAN** in a table means not enough data to make an estimate.

Table 1.–Daylight hours used to estimate catch and effort on Lake Gogebic, May 1 to September 30, 2015.

Year	Month	Daylight hours
2015	5	15
2015	6	16
2015	7	16
2015	8	15
2015	9	13

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

Species	C/H	May	June	July	August	September	Season
<b>HARVEST</b>							
Walleye	0.0596	720	507	692	876	387	3,182
	0.0267	747	290	391	648	222	1,125
Northern Pike	0.0008	28	14	0	0	0	41
	0.0012	55	27	0	0	0	62
Smallmouth Bass	0.0213	83	326	128	483	118	1,139
	0.0123	112	194	116	498	143	576
Yellow Perch	0.0770	892	663	547	1,654	359	4,115
	0.0373	1,086	436	517	981	296	1,639
Bluegill	0.0072	76	0	19	289	0	384
	0.0061	152	0	39	268	0	311
Pumpkinseed	0.0625	774	556	126	1,543	342	3,341
	0.0383	972	402	237	1,310	677	1,827
Rock Bass	0.0035	86	82	19	0	0	187
	0.0029	123	74	39	0	0	149
Black Crappie	0.0044	158	51	7	0	19	235
	0.0053	267	65	14	0	38	278
<b>TOTAL HARVEST</b>	0.2363	2,815	2,199	1,539	4,845	1,225	12,624
	0.0835	1,675	696	702	1,849	785	2,796
<b>RELEASED</b>							
Walleye	0.6355	9,223	8,555	5,830	6,759	3,581	33,948
	0.2697	8,405	5,097	3,054	3,401	1,612	10,960
Northern Pike	0.0874	2,408	1,209	488	325	238	4,667
	0.0607	2,856	558	348	289	452	2,979
Smallmouth Bass	0.1982	3,964	2,514	1,908	1,954	249	10,589
	0.1178	4,887	1,560	1,745	1,304	197	5,576
Yellow Perch	0.1068	1,794	340	412	3,115	46	5,707
	0.0609	2,141	374	450	1,782	92	2,848
Bluegill	0.0098	7	226	0	291	0	524
	0.0094	14	326	0	355	0	482
Pumpkinseed	0.0664	571	741	737	1,404	95	3,547
	0.0373	780	598	1,017	999	158	1,739
Rock Bass	0.0145	35	176	157	389	19	776
	0.0088	60	140	152	358	38	419
Black Crappie	0.0002	0	0	0	10	0	10
	0.0004	0	0	0	20	0	20
Common White Sucker	0.0002	0	10	0	0	0	10
	0.0004	0	20	0	0	0	20
<b>TOTAL RELEASED</b>	1.1191	18,002	13,772	9,530	14,247	4,228	59,779
	0.3939	10,387	5,418	3,708	4,216	1,696	13,101
<b>TOTAL CATCH</b>	1.3555	20,817	15,970	11,070	19,092	5,453	72,403
	0.4497	10,521	5,462	3,774	4,604	1,869	13,396
<b>ANGLER HOURS</b>		13,991	11,871	8,517	12,012	7,025	53,415
		12,686	5,014	4,031	3,010	2,246	14,712
<b>ANGLER TRIPS</b>		2,555	2,291	2,481	2,599	1,560	11,485
		2,334	1,046	1,255	890	611	3,047

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

Species	C/H	May	June	July	August	September	Season
<b>HARVEST</b>							
Walleye	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Northern Pike	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Smallmouth Bass	0.0019	0	4	0	0	0	4
	0.0040	0	8	0	0	0	8
Yellow Perch	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Bluegill	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Pumpkinseed	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Rock Bass	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Black Crappie	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
TOTAL HARVEST	0.0019	0	4	0	0	0	4
	0.0040	0	8	0	0	0	8
<b>RELEASED</b>							
Walleye	0.1714	210	157	0	0	0	367
	0.2368	355	244	0	0	0	431
Northern Pike	0.0484	93	10	0	0	0	104
	0.0811	155	21	0	0	0	156
Smallmouth Bass	0.1010	138	79	0	0	0	216
	0.1403	222	127	0	0	0	256
Yellow Perch	0.0045	0	0	10	0	0	10
	0.0095	0	0	19	0	0	19
Bluegill	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Pumpkinseed	0.0699	0	6	143	0	0	150
	0.1433	0	13	287	0	0	287
Rock Bass	0.1461	93	0	220	0	0	313
	0.2425	156	0	440	0	0	467
Black Crappie	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Common White Sucker	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
TOTAL RELEASED	0.5412	534	252	373	0	0	1,159
	0.5299	473	276	525	0	0	759
TOTAL CATCH	0.5431	534	257	373	0	0	1,163
	0.5310	473	276	525	0	0	759
ANGLER HOURS		1,508	320	169	145	0	2,142
		1,489	373	196	187	0	1,559
ANGLER TRIPS		908	76	50	66	0	1,100
		1,102	91	61	103	0	1,112

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

Species	C/H	May	June	July	August	September	Season
<b>HARVEST</b>							
Walleye	0.0498	50	0	0	0	0	50
	0.1025	100	0	0	0	0	100
Northern Pike	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Smallmouth Bass	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Yellow Perch	0.0110	0	0	11	0	0	11
	0.0444	0	0	NAN	0	0	44
Bluegill	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Pumpkinseed	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Rock Bass	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Black Crappie	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
<b>TOTAL HARVEST</b>	0.0608	50	0	11	0	0	61
	0.1129	100	0	NAN	0	0	109
<b>RELEASED</b>							
Walleye	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Northern Pike	0.0819	82	0	0	0	0	82
	0.3302	NAN	0	0	0	0	329
Smallmouth Bass	0.1275	0	0	128	0	0	128
	0.2624	0	0	256	0	0	256
Yellow Perch	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Bluegill	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Pumpkinseed	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Rock Bass	0.0448	45	0	0	0	0	45
	0.1806	NAN	0	0	0	0	180
Black Crappie	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
Common White Sucker	—	0	0	0	0	0	0
	—	0	0	0	0	0	0
<b>TOTAL RELEASED</b>	0.2543	127	0	128	0	0	255
	0.5808	NAN	0	256	0	0	570
<b>TOTAL CATCH</b>	0.3151	177	0	139	0	0	316
	0.5977	NAN	0	NAN	0	0	580
<b>ANGLER HOURS</b>		213	96	190	432	73	1,004
		255	143	271	272	53	485
<b>ANGLER TRIPS</b>		53	25	47	115	19	259
		70	41	71	110	20	155

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

Species	C/H	May	June	July	August	September	Season
HARVEST							
Walleye	0.0571	770	507	692	876	387	3,232
	0.0249	754	290	391	648	222	1,129
Northern Pike	0.0007	28	14	0	0	0	41
	0.0011	55	27	0	0	0	62
Smallmouth Bass	0.0202	83	330	128	483	118	1,143
	0.0115	112	195	116	498	143	577
Yellow Perch	0.0730	892	663	558	1,654	359	4,127
	0.0518	1,086	436	NAN	981	296	2,721
Bluegill	0.0068	76	0	19	289	0	384
	0.0058	152	0	39	268	0	311
Pumpkinseed	0.0591	774	556	126	1,543	342	3,341
	0.0358	972	402	237	1,310	677	1,827
Rock Bass	0.0033	86	82	19	0	0	187
	0.0028	123	74	39	0	0	149
Black Crappie	0.0041	158	51	7	0	19	235
	0.0050	267	65	14	0	38	278
TOTAL HARVEST	0.2243	2,865	2,203	1,550	4,845	1,225	12,689
	0.1333	1,678	696	NAN	1,849	785	6,768
RELEASED							
Walleye	0.6067	9,433	8,712	5,830	6,759	3,581	34,315
	0.2506	8,413	5,103	3,054	3,401	1,612	10,969
Northern Pike	0.0858	2,584	1,219	488	325	238	4,853
	0.1847	NAN	558	348	289	452	10,369
Smallmouth bass	0.1933	4,102	2,593	2,036	1,954	249	10,933
	0.1110	4,892	1,565	1,763	1,304	197	5,588
Yellow Perch	0.1011	1,794	340	421	3,115	46	5,716
	0.0569	2,141	374	450	1,782	92	2,848
Bluegill	0.0093	7	226	0	291	0	524
	0.0089	14	326	0	355	0	482
Pumpkinseed	0.0654	571	747	880	1,404	95	3,697
	0.0355	780	598	1,056	999	158	1,762
Rock Bass	0.0201	173	176	377	389	19	1,134
	0.0171	NAN	140	465	358	38	920
Black Crappie	0.0002	0	0	0	10	0	10
	0.0004	0	0	0	20	0	20
Common White Sucker	0.0002	0	10	0	0	0	10
	0.0004	0	20	0	0	0	20
TOTAL RELEASED	1.0819	18,663	14,024	10,031	14,247	4,228	61,193
	1.3573	NAN	5,425	3,754	4,216	1,696	75,081
TOTAL CATCH	1.3062	21,529	16,227	11,582	19,092	5,453	73,883
	1.3760	NAN	5,469	NAN	4,604	1,869	75,386
ANGLER HOURS		15,711	12,287	8,876	12,589	7,098	56,561
		12,776	5,029	4,045	3,028	2,246	14,802
ANGLER TRIPS		3,516	2,391	2,578	2,780	1,580	12,844
		2,582	1,051	1,259	902	611	3,247