

Winter Ice Angling Survey Report for Black Lake, Cheboygan and Presque Isle Counties, 2018

Waterbody	Black Lake
Year	2018
County	Cheboygan and Presque Isle
Sites	Black
Survey period	January 1 to March 31
Survey design	Roving (instantaneous)-access
Count methods/modes	Roving (instantaneous)/open ice and shanty
Clerk time	Half time
Survey purpose	Characterize general effort and catch aspects of the fishery

Notes

This survey followed a roving (instantaneous)-access design. Funding was provided by the Federal Aid to Sport Fish Restoration Project F-81, Study 230499. One clerk worked half time to collect angling survey data. Three weekdays and two weekend 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. The entire water body was sampled each scheduled day. Starting location and direction of travel were randomized for both counting and interviewing. Roving (instantaneous) counts of open ice and shanty anglers were made once per day. Survey period for both counts and interviews was January 1 to March 31. Months were estimated separately. Estimates are available for open ice and shanty. "NAN" in a table means there was not enough information to make a calculation.

Table 1.–Daylight hours used to estimate catch and effort each month of Black Lake creel survey from January 1 to March 31, 2018.

Year	Month	Daylight Hours
2018	January	11
2018	February	12
2018	March	12.5

Table 2.—Estimated harvest, catch per hour, and fishing pressure for Black_Lake open ice fishery. Two standard errors are given below the estimates.

Species	C/H	January	February	March	Season
HARVEST					
Walleye	0.0323	9	51	0	60
	0.0398	14	65	0	67
Northern pike	0.0199	0	37	0	37
	0.0279	0	48	0	48
Yellow Perch	0.1337	0	248	0	248
	0.2025	0	352	0	352
TOTAL HARVEST	0.1860	9	337	0	345
	0.2184	14	361	0	362
RELEASED					
Walleye	0.0023	4	0	0	4
	0.0048	9	0	0	9
Northern pike	0.0627	13	52	52	116
	0.1230	22	73	NAN	220
Yellow Perch	0.1791	0	307	26	333
	0.2587	0	435	NAN	447
TOTAL RELEASED	0.2442	17	359	77	453
	0.3179	23	441	NAN	539
TOTAL CATCH	0.4302	26	696	77	799
	0.4176	27	570	NAN	649
ANGLER HOURS		426	957	473	1,856
		243	879	375	986
ANGLER TRIPS		108	243	120	471
		67	233	100	262

Table 3.—Estimated harvest, catch per hour, and fishing pressure for Black_Lake shanty fishery. Two standard errors are given below the estimates.

Species	C/H	January	February	March	Season
HARVEST					
Walleye	0.0678	1,087	226	0	1,313
	0.0446	766	272	0	813
Northern pike	0.0261	412	93	0	506
	0.0227	407	122	0	425
Yellow Perch	0.1413	2,027	709	0	2,736
	0.0875	1,202	1,026	0	1,580
TOTAL HARVEST	0.2353	3,526	1,029	0	4,555
	0.1080	1,482	1,068	0	1,827
RELEASED					
Walleye	0.0526	877	140	0	1,017
	0.0498	913	210	0	937
Northern pike	0.1122	619	1,552	0	2,171
	0.0687	435	1,159	0	1,238
Yellow Perch	0.2584	1,888	3,115	0	5,003
	0.2489	2,347	4,057	0	4,687
TOTAL RELEASED	0.4231	3,385	4,807	0	8,192
	0.2720	2,556	4,225	0	4,938
TOTAL CATCH	0.6584	6,911	5,836	0	12,746
	0.3093	2,954	4,358	0	5,265
ANGLER HOURS		11,437	7,661	261	19,359
		3,282	2,624	NAN	4,329
ANGLER TRIPS		2,399	2,020	63	4,482
		796	769	NAN	1,135

Table 4.—Estimated harvest, catch per hour, and fishing pressure for Black Lake all modes combined. Two standard errors are given below the estimates.

Species	C/H	January	February	March	Season
HARVEST					
Walleye	0.0647	1,096	278	0	1,373
	0.0416	766	279	0	815
Northern pike	0.0256	412	130	0	543
	0.0211	407	131	0	428
Yellow Perch	0.1406	2,027	957	0	2,984
	0.0837	1,202	1,085	0	1,619
OTH3	0	0	0	0	0
	0	0	0	0	0
TOTAL HARVEST	0.2310	3,535	1,365	0	4,900
	0.1045	1,482	1,128	0	1,862
RELEASED					
Walleye	0.0482	882	140	0	1,022
	0.0457	914	210	0	937
Northern pike	0.1078	632	1,604	52	2,288
	0.0649	435	1,161	NAN	1,257
Yellow Perch	0.2515	1,888	3,422	26	5,336
	0.2304	2,347	4,080	NAN	4,708
TOTAL RELEASED	0.4075	3,402	5,166	77	8,645
	0.2546	2,556	4,247	NAN	4,967
TOTAL CATCH	0.6384	6,937	6,531	77	13,545
	0.2951	2,955	4,395	NAN	5,305
ANGLER HOURS		11,863	8,618	734	21,216
		3,291	2,767	NAN	5,207
ANGLER TRIPS		2,507	2,263	184	4,954
		799	803	NAN	1,350