

Survey Report for Portage Lake, Winter, 2009

Waterbody	Portage Lake
Year	Winter, 2009
County	Houghton
Sites	Portage Lake
Survey period	January 13 to February 28
Interview type/mode	access/open ice, shanty
Count type/mode	roving/
Clerk time	full time
Survey purpose	Characterize general effort and catch aspects of the fishery

Notes

Survey followed a roving-roving design. All funding was provided through Fisheries Division. One clerk worked full time to collect angler survey data. Both weekend days and 3 randomly selected weekdays were selected for sampling during each week of the survey season. No holidays were sampled. Clerk followed a randomized count and interview schedule. One of two shifts was selected each sample day. The entire water body was sampled each day. Starting location and direction of travel were randomized for both counting and interviewing. Counts of shanty and open-ice anglers were made once per day. Survey period for both counts and interviews was January 13 to February 28. Months were estimated separately. Estimates are given in the following tables.

Table –Work shifts used to estimate catch and effort at PORTAGELAKE, January 13 to February 28, Winter, 2009

Year	Month	Hours Sampled
2009	1	11
2009	2	13

Estimated harvest, catch per hour, and fishing pressure for Open-ice anglers on Portage Lake. Two standard errors are given in parentheses.

Species	C/H	January	February	Season
HARVEST				
Walleye	0.0042 (0.0081)	9 (18)	3 (8)	12 (20)
Northern pike	0.0508 (0.0854)	108 (182)	43 (49)	150 (188)
Yellow Perch	0.0066 (0.0136)	0 (0)	19 (34)	19 (34)
Black crappie	0.0107 (0.0244)	0 (0)	32 (63)	32 (63)
Common white sucker	0 (0)	0 (0)	0 (0)	0 (0)
Other	0 (0)	0 (0)	0 (0)	0 (0)
TOTAL HARVEST	0.0723 (0.1059)	117 (183)	97 (87)	214 (202)
RELEASED				
Walleye	0 (0)	0 (0)	0 (0)	0 (0)
Northern pike	0.0419 (0.0616)	75 (106)	49 (52)	124 (118)
Yellow Perch	0.0030 (0.0053)	7 (11)	2 (5)	9 (12)
Black crappie	0.0053 (0.0122)	0 (0)	16 (32)	16 (32)
Common white sucker	0 (0)	0 (0)	0 (0)	0 (0)
Other	0 (0)	0 (0)	0 (0)	0 (0)
TOTAL RELEASED	0.0503 (0.0700)	81 (106)	67 (61)	149 (123)
TOTAL CATCH	0.1225 (0.1589)	199 (211)	164 (107)	363 (237)
ANGLER HOURS		2,010 (3,259)	950 (614)	2,960 (3,316)
ANGLER TRIPS		371 (603)	238 (171)	608 (626)

Estimated harvest, catch per hour, and fishing pressure for Shanty anglers on Portage Lake. Two standard errors are given in parentheses.

<u>Species</u>	<u>C/H</u>	<u>January</u>	<u>February</u>	<u>Season</u>
HARVEST				
Walleye	0.0769 (0.0719)	185 (172)	23 (25)	209 (173)
Northern pike	0.0144 (0.0132)	31 (30)	8 (10)	39 (32)
Yellow Perch	0 (0)	0 (0)	0 (0)	0 (0)
Black crappie	0 (0)	0 (0)	0 (0)	0 (0)
Common white sucker	0.0035 (0.0072)	0 (0)	10 (19)	10 (19)
Other (unknown)	0.0010 (0.0020)	0 (0)	3 (5)	3 (5)
TOTAL HARVEST	0.0957 (0.0772)	216 (174)	44 (34)	260 (177)
RELEASED				
Walleye	0.0030 (0.0049)	6 (12)	3 (5)	8 (13)
Northern pike	0.0419 (0.0413)	80 (96)	33 (31)	114 (101)
Yellow Perch	0 (0)	0 (0)	0 (0)	0 (0)
Black crappie	0 (0)	0 (0)	0 (0)	0 (0)
Common white sucker	0.0013 (0.0027)	0 (0)	4 (7)	4 (7)
Other (sturgeon)	0.0027 (0.0055)	7 (15)	0 (0)	7 (15)
TOTAL RELEASED	0.0489 (0.0433)	93 (98)	39 (32)	133 (103)
TOTAL CATCH	0.1446 (0.0977)	309 (200)	83 (47)	392 (205)
ANGLER HOURS		1,709 (1,062)	1,003 (469)	2,713 (1,161)
ANGLER TRIPS		547 (366)	331 (166)	878 (402)

Estimated harvest, catch per hour, and fishing pressure for all modes on Portage Lake.
Two standard errors are given in parentheses.

Species	C/H	January	February	Season
HARVEST				
Walleye	0.0390 (0.0391)	194 (173)	27 (26)	221 (175)
Northern pike	0.0334 (0.0395)	139 (184)	51 (50)	189 (191)
Yellow Perch	0.0034 (0.0064)	0 (0)	19 (34)	19 (34)
Black crappie	0.0056 (0.0117)	0 (0)	32 (63)	32 (63)
Common white sucker	0.0017 (0.0035)	0 (0)	10 (19)	10 (19)
Other - unknown	0.0005 (0.0010)	0 (0)	3 (5)	3 (5)
TOTAL HARVEST	0.0835 (0.0702)	333 (252)	140 (93)	474 (269)
RELEASED				
Walleye	0.0014 (0.0024)	6 (12)	3 (5)	8 (13)
Northern pike	0.0419 (0.0377)	155 (143)	82 (61)	238 (155)
Yellow Perch	0.0016 (0.0023)	7 (11)	2 (5)	9 (12)
Black crappie	0.0028 (0.0058)	0 (0)	16 (32)	16 (32)
Common white sucker	0.0006 (0.0013)	0 (0)	4 (7)	4 (7)
Other - sturgeon	0.0013 (0.0027)	7 (15)	0 (0)	7 (15)
TOTAL RELEASED	0.0496 (0.0417)	175 (145)	107 (69)	281 (160)
TOTAL CATCH	0.1331 (0.0992)	508 (291)	247 (116)	755 (313)
ANGLER HOURS		3,719 (3,428)	1,953 (772)	5,673 (3,514)
ANGLER TRIPS		918 (705)	568 (238)	1,486 (744)

