

Survey Report for Manistee Lake Winter Fishery, Manistee County, 2016

Waterbody	ManisteeLake
Year	2016
County	Manistee County
Sites	129
Survey period	February 20 to March 31
Survey design	Roving (instantaneous)-access
Count methods/modes	Roving (instantaneous)/open ice
Clerk time	full time
Survey purpose	Characterize general effort and catch aspects of the fishery

Notes

Survey followed a roving (instantaneous)-access design. Funding was provided by the Federal Aid to Sport Fish Restoration Project F-81, Study 230499. Two clerks worked full time to collect angler 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 clerks 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 within the waterbody and direction of travel were randomized for both counting and interviewing. Roving (instantaneous) counts of open ice anglers were made once per day. Survey period for both counts and interviews was February 20 to March 31. Months were estimated separately. There were no shanties during this period.

Table 1.–Daylight hours used to estimate catch and effort on Manistee Lake, February 20 to March 31, 2016.

Year	Month	Daylight hours
2016	February	11
2016	March	11

Table 3.—Estimated harvest, catch per hour, and fishing pressure for the Manistee Lake open ice fishery. No interviews for March although open ice anglers were counted. Two standard errors are given below the estimates.

Species	C/H	February-March	Season
HARVEST			
Yellow Perch	1.3978	8,034	8,034
	1.3743	7,343	7,343
Bluegill	1.8534	10,653	10,653
	3.3110	18,634	18,634
TOTAL HARVEST	3.2513	18,687	18,687
	3.6786	20,029	20,029
RELEASED			
Northern pike	0.1853	1,065	1,065
	0.2195	1,201	1,201
Yellow Perch	1.6308	9,373	9,373
	2.0774	11,446	11,446
Bluegill	0.0233	134	134
	0.0574	326	326
TOTAL RELEASED	1.8395	10,572	10,572
	2.1113	11,514	11,514
TOTAL CATCH	5.0907	29,259	29,259
	4.4228	23,102	23,102
ANGLER HOURS		5,748	5,748
		2,083	2,083
ANGLER TRIPS		1,175	1,175
		529	529