

Open Water Creel Survey Report for Deer Lake, Marquette County, 2016

Waterbody	Deer Lake
Year	2016
County	Marquette County
Sites	DeerLake
Survey period	May 1 to October 24
Survey design	Roving (instantaneous)-access
Count methods/modes	Roving (instantaneous)-boat and shore
Clerk time	1/2 time
Survey purpose	Characterize general effort and catch aspects of the fishery

Notes

Survey followed a roving (instantaneous)-access design. All funding was provided through Fisheries Division. One clerk worked 1/2 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. Clerk(s) followed a randomized count and interview schedule. One of two shifts was selected each sample day. The entire water body was sampled each day. 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 24. Months were estimated separately. Estimates are available for boat and shore

Table –Day light hours used to estimate catch and effort at Deer Lake, May 1 to October 24, 2016.

Year	Month	Day Light Hours
2016	5	16
2016	6	16
2016	7	16
2016	8	16
2016	9	14
2016	10	13

Estimated harvest, catch per hour, and fishing pressure for Deer Lake boat fishery. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
RELEASED								
Walleye	1.0605	1,083	2,028	1,735	1,330	425	226	6,827
	0.5327	965	1,645	1,424	1,556	313	298	2,876
Northern pike	0.7080	1,742	784	530	653	731	118	4,558
	0.3892	1,786	718	329	594	734	136	2,173
Largemouth bass	0.0017	0	11	0	0	0	0	11
	0.0034	0	22	0	0	0	0	22
Smallmouth bass	0.0060	0	11	0	28	0	0	39
	0.0093	0	22	0	55	0	0	59
Yellow Perch	0.0150	0	0	13	83	0	0	96
	0.0270	0	0	27	170	0	0	172
TOTAL RELEASED	1.7912	2,825	2,834	2,278	2,094	1,156	344	11,530
	0.7445	2,030	1,795	1,462	1,675	798	327	3,610
TOTAL CATCH	1.7912	2,825	2,834	2,278	2,094	1,156	344	11,530
	0.7445	2,030	1,795	1,462	1,675	798	327	3,610
ANGLER HOURS		1,209	1,484	1,514	1,049	722	458	6,437
		797	1,080	652	823	380	224	1,760
ANGLER TRIPS		379	494	432	294	134	85	1,817
		263	373	201	229	84	49	557

Estimated harvest, catch per hour, and fishing pressure for Deer Lake shore fishery. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
RELEASED								
Walleye	0.1908	135	67	40	71	87	0	399
	0.1337	143	115	76	113	94	0	247
Northern pike	0.2846	206	82	65	161	48	34	596
	0.1903	208	106	129	204	51	68	347
Smallmouth bass	0.0131	27	0	0	0	0	0	27
	0.0266	55	0	0	0	0	0	55
TOTAL RELEASED								
	0.4886	368	149	104	232	135	34	1,022
	0.2606	258	156	150	233	107	68	429
TOTAL CATCH								
	0.4886	368	149	104	232	135	34	1,022
	0.2606	258	156	150	233	107	68	429
ANGLER HOURS								
		600	336	372	505	193	86	2,092
		416	240	263	398	100	77	688
ANGLER TRIPS								
		504	266	340	393	132	69	1,704
		382	211	318	383	83	79	671

Estimated harvest, catch per hour, and fishing pressure for Deer Lake boat and shore fishery combined. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
RELEASED								
Walleye	0.8472	1,218	2,095	1,775	1,401	512	226	7,226
	0.3870	976	1,649	1,427	1,560	327	298	2,887
Northern pike	0.6041	1,948	866	594	814	779	152	5,153
	0.2907	1,798	725	354	628	736	152	2,201
Largemouth bass	0.0013	0	11	0	0	0	0	11
	0.0026	0	22	0	0	0	0	22
Smallmouth bass	0.0077	27	11	0	28	0	0	66
	0.0096	55	22	0	55	0	0	81
Yellow Perch	0.0113	0	0	13	83	0	0	96
	0.0203	0	0	27	170	0	0	172
TOTAL RELEASED	1.4716	3,193	2,982	2,382	2,326	1,291	378	12,552
	0.5366	2,046	1,802	1,470	1,691	805	334	3,635
TOTAL CATCH	1.4716	3,193	2,982	2,382	2,326	1,291	378	12,552
	0.5366	2,046	1,802	1,470	1,691	805	334	3,635
ANGLER HOURS		1,809	1,820	1,887	1,554	915	544	8,530
		899	1,106	703	915	393	237	1,890
ANGLER TRIPS		883	760	772	687	266	154	3,521
		464	428	376	446	118	93	872