

## Open Water Creel Survey Report for Leland River and Fish Town Dam, Leelanau County, 2017

<b>Waterbody</b>	Leland River and Fish Town Dam
<b>Year</b>	2017
<b>County</b>	Leelanau County
<b>Sites</b>	LelandRiver
<b>Survey period</b>	May 1 to October 31
<b>Survey design</b>	Roving (instantaneous)-access
<b>Count methods/modes</b>	Roving (instantaneous)/shore
<b>Clerk time</b>	1/2 time
<b>Survey purpose</b>	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. 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 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 shore anglers were made three times per day. Survey period for both counts and interviews was May 1 to October 31. Months were estimated separately.

Table 1.—Daylight hours used to estimate catch and effort at Leland River and Fish Town Dam, May 1 to October 31, 2017.

Year	Month	Daylight Hours
2017	4	14
2017	5	15
2017	6	16
2017	7	17
2017	8	17
2017	9	16
2017	10	13

Table 2.—Estimated harvest, catch per hour, and fishing pressure for Leland River and Fish Town Dam shore fishery. Two standard errors are given below the estimates.

Species	C/H	May	June	July	August	September	October	Season
HARVEST								
Smallmouth Bass	0.0866	–	255	16	–	–	–	271
	0.0729	–	215	35	–	–	–	218
Rainbow Trout	0.0048	–	–	–	–	–	15	15
	0.0059	–	–	–	–	–	18	18
Lake Trout	0.0096	–	–	–	–	–	30	30
	0.0132	–	–	–	–	–	41	41
Chinook Salmon	0.0022	–	–	–	–	–	7	7
	0.0045	–	–	–	–	–	14	14
Coho Salmon	0.0067	–	–	–	–	13	8	21
	0.0099	–	–	–	–	27	15	31
TOTAL HARVEST	0.1099	–	255	16	–	13	60	344
	0.0770	–	215	35	–	27	49	225
RELEASED								
Smallmouth Bass	2.9246	–	3,869	3,897	1,351	44	–	9,161
	1.3725	–	2,404	1,978	1,825	70	–	3,609
Yellow Perch	0.0423	–	22	47	43	13	8	133
	0.0398	–	44	70	80	30	13	120
Bluegill	0.0008	–	–	–	3	–	–	3
	0.0016	–	–	–	5	–	–	5
Rock Bass	0.2670	–	239	500	97	–	–	836
	0.2100	–	330	503	159	–	–	622
Rainbow Trout	0.0172	–	–	–	–	–	54	54
	0.0200	–	–	–	–	–	61	61
Brown Trout	0.0065	–	–	–	–	–	20	20
	0.0105	–	–	–	–	–	32	32
Common White Sucker	0.0038	–	12	–	–	–	–	12
	0.0079	–	25	–	–	–	–	25
Lake Trout	0.0076	–	–	–	–	–	24	24
	0.0086	–	–	–	–	–	26	26
Chinook Salmon	0.0220	–	–	–	–	–	69	69
	0.0271	–	–	–	–	–	83	83
Coho Salmon	0.0088	–	–	–	–	13	14	28
	0.0100	–	–	–	–	24	18	30
TOTAL RELEASED	3.3008	–	4,142	4,444	1,494	71	189	10,339
	1.4416	–	2,427	2,042	1,833	80	114	3,666
TOTAL CATCH	3.4107	–	4,397	4,460	1,494	84	249	10,683
	1.4599	–	2,436	2,042	1,833	84	124	3,673
ANGLER HOURS		14	864	1,136	359	216	544	3,132
		28	416	455	422	174	221	799
ANGLER TRIPS		8	488	720	284	131	187	1,818
		16	254	392	474	122	100	684