

Open Water Creel Survey Estimate Report for Bryan Creek (Marquette and Dickinson County and Two Mile Creek (Dickinson County), 2015

Waterbody	Bryan Creek and Two Mile Creek
Year	2015
County	Marquette and Dickinson counties
Sites	Bryan and TwoMile
Survey period	April 25 to August 31
Survey design	Roving (instantaneous)-access
Count methods/modes	Roving (instantaneous)/boat and shore
Clerk time	Unknown, did not follow schedule
Survey purpose	Characterize general effort and catch aspects of the Brook Trout 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 as time permitted to collect angling survey data. Two weekend days and 3 week days were randomly selected for sampling during each week of the survey season on the schedule. No holidays were sampled. One of two shifts was selected each sample day. Bryan Creek and Two Mile Creek were divided into 2 sections: Bryan and TwoMile. Each section was sampled every other scheduled day on the schedule. Starting location within a section and direction of travel were randomized for both counting and interviewing. Roving (instantaneous) counts of boat and shore anglers were made twice per day. Survey period for both counts and interviews was April 25 to August 31. Months were estimated separately. There are no estimates available for the boat fishery on Two Mile Creek. There were only 8 boats counted on one day in July and there were no interviews throughout the season. “NAN” in a table means there was not enough data to make an estimate.

Table 1.–Daylight hours used to estimate catch and effort at Bryan Creek and Two Mile Creek, April 25 to August 31, 2015.

Year	Month	Daylight hours
2015	4	7
2015	5	9
2015	6	9
2015	7	10
2015	8	11

Table 2.–Estimated harvest, catch per hour, and fishing pressure for the Bryan Creek boat fishery. Two standard errors are given below the estimates.

Species	C/H	April-May	June	July	August	Season
HARVEST						
Brook Trout	1.9740	–	–	607	–	607
	11.1665	–	–	NAN	–	2,428
TOTAL HARVEST						
	1.9740	–	–	607	–	607
	11.1665	–	–	NAN	–	2,428
RELEASED						
Brook trout	0.1561	–	–	48	–	48
	0.8830	–	–	NAN	–	192
TOTAL RELEASED						
	0.1561	–	–	48	–	48
	0.8830	–	–	NAN	–	192
TOTAL CATCH						
	2.1301	–	–	655	–	655
	11.6332	–	–	NAN	–	2,436
ANGLER HOURS						
		–	–	308	–	308
		–	–	NAN	–	1,230
ANGLER TRIPS						
		–	–	215	–	215
		–	–	NAN	–	862

Table 3.–Estimated harvest, catch per hour, and fishing pressure for the Bryan Creek shore fishery. Two standard errors are given below the estimates.

Species	C/H	April-May	June	July	August	Season
HARVEST						
Brook Trout	1.1466	669	–	–	–	669
	1.4805	644	–	–	–	644
TOTAL HARVEST						
	1.1466	669	–	–	–	669
	1.4805	644	–	–	–	644
RELEASED						
Brook trout	0.8893	172	–	–	347	519
	2.5187	196	–	–	NAN	1,400
TOTAL RELEASED						
	0.8893	172	–	–	347	519
	2.5187	196	–	–	NAN	1,400
TOTAL CATCH						
	2.0360	841	–	–	347	1,187
	3.1692	673	–	–	NAN	1,541
ANGLER HOURS						
		266	–	58	260	583
		204	–	105	446	501
ANGLER TRIPS						
		223	–	77	166	466
		187	–	148	376	445

Table 4.—Total estimated harvest, catch per hour, and fishing pressure for the combined boat and shore fishery on Bryan Creek. Two standard errors are given below the estimates.

Species	C/H	April-May	June	July	August	Season
HARVEST						
Brook Trout	1.4323	669	–	607	–	1,276
	3.7531	644	–	NAN	–	2,512
TOTAL HARVEST	1.4323	669	–	607	–	1,276
	3.7531	644	–	NAN	–	2,512
RELEASED						
Brook trout	0.6362	172	–	48	347	567
	1.9303	196	–	NAN	NAN	1,413
TOTAL RELEASED	0.6362	172	–	48	347	567
	1.9303	196	–	NAN	NAN	1,413
TOTAL CATCH	2.0685	841	–	655	347	1,842
	4.8229	673	–	NAN	NAN	2,882
ANGLER HOURS		266	–	365	260	891
		204	–	NAN	446	1,540
ANGLER TRIPS		223	–	292	166	682
		187	–	NAN	376	1,242

Table 5.—Estimated harvest, catch per hour, and fishing pressure for Two Mile Creek shore fishery. Two standard errors are given below the estimates.

Species	C/H	April-May	June	July	August	Season
HARVEST						
Brook Trout	1.1429	–	–	–	31	31
	3.2325	–	–	–	63	63
TOTAL HARVEST	1.1429	–	–	–	31	31
	3.2325	–	–	–	63	63
RELEASED						
Brook trout	3.4286	–	–	–	94	94
	9.6975	–	–	–	189	189
TOTAL RELEASED	3.4286	–	–	–	94	94
	9.6975	–	–	–	189	189
TOTAL CATCH	4.5714	–	–	–	126	126
	11.6549	–	–	–	199	199
ANGLER HOURS		–	–	–	28	28
		–	–	–	55	55
ANGLER TRIPS		–	–	–	16	16
		–	–	–	34	34