

**Trapper Estimates Report
2015-2016 Trapper Harvest Survey
Region: Statewide**

Species	Total Trappers					Total Trap Days					Total Harvest				
	Total Trappers	Confidence Limits (+)	PSE	Credibility Rating	% of incidental trappers	Total Trap Days	Confidence Limits (+)	PSE	Credibility Rating	Total Harvest	Confidence Limits (+)	PSE	Credibility Rating	% of harvest released alive at capture site	% of harvest taken incidentally
Bobcat	384	44	0.058	G	10.95%	202,614	69,062	0.174	F	1,013	229	0.115	G	4.87%	17.69%
Coyote	794	47	0.030	G	0.92%	867,345	242,937	0.143	G	7,639	1,451	0.097	G		0.24%
Fox	561	47	0.043	G	14.98%	336,528	138,293	0.210	P	6,212	1,790	0.147	G	32.38%	23.55%
Beaver	658	48	0.037	G	0.28%	336,477	172,456	0.261	P	9,336	1,691	0.092	G	0.02%	0.04%
Gray Fox	512	47	0.047	G	26.07%	295,322	136,932	0.237	P	4,173	1,115	0.136	G	28.92%	23.79%
Mink	113	27	0.121	G	11.29%	24,088	15,409	0.326	P	161	58	0.184	F		9.09%
Muskrat	309	41	0.067	G	15.98%	62,875	16,568	0.134	G	2,838	827	0.149	G		7.02%
Nutria	161	31	0.100	G	36.36%	57,972	46,042	0.405	P	1,459	391	0.137	G		28.32%
Red Fox	373	43	0.059	G	23.04%	264,457	137,483	0.265	P	2,039	764	0.191	F	39.46%	33.63%
River Otter	320	41	0.066	G	29.14%	82,749	53,504	0.330	P	1,253	271	0.110	G		18.54%
Striped Skunk	179	33	0.094	G	52.04%	111,644	128,783	0.589	P	486	122	0.128	G	1.88%	44.36%
Virginia Opossum	617	44	0.036	G	48.63%	363,318	177,657	0.249	P	7,144	1,310	0.094	G	11.64%	44.81%
Weasels	7	7	0.499	P	0.00%	527	336	0.325	P	2	4	1.000	P		0.00%
Raccoon	849	42	0.025	G	19.55%	413,570	170,883	0.211	P	9,358	1,393	0.076	G	4.80%	17.96%
Skunk	179	33	0.094	G	52.04%	111,644	128,783	0.589	P	486	122	0.128	G	1.88%	44.36%

Mean Traps Set

Species	Mean Harvest Per Trapper	Mean Days Per Trapper	Mean Trap Days Per Trapper	Per Trapper Per Day	Mean Trap Days Per Animal	Mean Harvest Per Trap Day
Bobcat	2.64	26.04	527.59	12.132	199.988	0.005
Coyote	9.62	39.54	1092.81	16.703	113.546	0.009
Fox	11.07	28.08	599.41	12.267	54.171	0.018
Beaver	14.18	29.49	511.09	8.749	36.040	0.028
Gray Fox	8.15	23.87	576.74	11.071	70.766	0.014
Mink	1.42	16.51	212.44	7.456	149.676	0.007
Muskrat	9.18	18.47	203.44	8.019	22.153	0.045
Nutria	9.07	22.38	360.23	6.843	39.724	0.025
Red Fox	5.47	27.25	708.87	11.856	129.695	0.008
River Otter	3.91	17.89	258.56	6.103	66.057	0.015
Striped Skunk	2.71	13.89	622.95	8.901	229.508	0.004
Virginia Opossum	11.57	19.78	588.56	8.048	50.858	0.020
Weasels	0.25	24.67	72.03	4.667	288.127	0.003
Raccoon	11.02	23.92	487.23	9.206	44.196	0.023
Skunk	2.71	13.89	622.95	8.901	229.508	0.004

Total # of license holders	3,076	<u>Active Trapper Estimate</u>	
Deceased license holder rate	0	# of Active Trappers from Respondents	714
Adj Total # of license holders	3,076	Proportion of Responding Trappers	0.4830853
Total # of surveys sent	3,076	Estimated Proportion of Non-responding Trappers	0.3671
Undeliverables	89	SE	0.0129982
Deceased	0	PSE	0.0269067
Sample size	2,987	Total Active Licensed Trappers	1,306
Sample rate	97.11%	Margin of Error @ 95% CL	69
Total Survey Returns	1,482	Active Trapper Rate within All License Holders	42.45%
Refused	4		
Total Survey Responses	1,478		
Response rate	49.48%		
Total Not Responding	1,509		

Trapper Harvest Survey Regional Credibility Measures

Although the Trapper Harvest Survey (THS) database provides a huge amount of information about regional hunting activity for many species, there are a variety of possible problems with estimates derived from THS data. Small sample sizes, low relative harvest or trapping effort rates, imprecise estimates, and missing data all can compromise THS results. Often, users do not take these problems into account when viewing THS results, and use the results inappropriately.

To provide some guidance into the interpretation of THS data, we have implemented a series of checks for some minimum criteria that we view as cause for caution. We categorize THS results into 3 credibility categories:

	Total Trappers	Total Trap Days	Total Harvest
Poor	> 30% of counties have < 3 records within the selected region* < 20 individual trapper responses Total Trapper PSE > 20%	> 30% of counties have < 3 records within the selected region* < 20 individual trapper responses Total Days PSE > 20% <1.0 days per trapper	> 30% of counties have < 3 records within the selected region* < 20 individual trapper responses Total Harvest PSE > 20% <0.002 animals per trapper
Fair	>=20 and <30 individual trapper responses 15% < Total Trapper PSE <= 20%	>=20 and <30 individual trapper responses 15% < Total Harvest PSE <= 20% <10.0 days per trapper	>=20 and <30 individual trapper responses <0.02 animals per trapper
Good	>= 30 individual trapper responses Total Trapper PSE < 15%	>= 30 individual trapper responses Total Harvest PSE < 15% >= 10.0 days per trapper	>= 30 individual trapper responses >= 0.02 animals per trapper

*Does not apply to statewide summary