

**Trapper Estimates Report  
2016-17 Trapper Harvest Survey  
Region: Statewide**

Total Trappers						Total Trap Days				Total Harvest					
Species	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	429	46	0.055	G	17.32%	281,096	87,183	0.158	F	1,390	305	0.112	G	4.14%	14.55%
Coyote	882	49	0.029	G	0.42%	818,636	195,018	0.122	G	6,344	957	0.077	G	0.07%	0.13%
Fox	629	50	0.041	G	22.42%	317,444	128,996	0.207	P	5,731	1,220	0.109	G	27.89%	27.92%
Beaver	681	51	0.038	G	0.54%	380,935	124,218	0.166	F	9,727	1,776	0.093	G		0.15%
Gray Fox	559	49	0.045	G	30.90%	297,378	129,870	0.223	P	3,806	829	0.111	G	26.34%	28.15%
Mink	104	26	0.129	G	16.07%	37,943	27,123	0.365	P	165	54	0.168	F		14.61%
Muskrat	290	41	0.072	G	18.59%	110,212	45,170	0.209	P	3,122	1,119	0.183	F		7.02%
Nutria	87	18	0.106	G	42.50%	23,348	13,523	0.296	P	718	238	0.169	F	0.15%	39.91%
Red Fox	423	46	0.056	G	33.77%	255,833	128,629	0.257	P	1,925	457	0.121	G	30.95%	38.77%
River Otter	261	32	0.062	G	18.46%	143,598	74,388	0.264	P	1,449	422	0.149	G	0.09%	8.88%
Spotted Skunk	4	5	0.706	P	50.00%	167	327	1.000	P	4	0	0.000	P		50.00%
Striped Skunk	124	21	0.088	G	48.65%	26,264	10,714	0.208	P	501	139	0.141	G	1.34%	49.66%
Virginia Opossum	778	50	0.033	G	52.74%	257,276	105,405	0.209	P	8,740	1,160	0.068	G	13.19%	55.43%
Weasels	13	10	0.376	P	0.00%	2,669	3,673	0.702	P	0	0	0.000	P	0.00%	0.00%
Raccoon	967	48	0.025	G	22.07%	402,249	111,787	0.142	G	11,263	1,390	0.063	G	5.29%	17.08%
Skunk	127	22	0.087	G	48.67%	26,315	10,712	0.208	P	503	139	0.141	G	1.34%	49.67%

Species	Mean Harvest Per Trapper	Mean Days Per Trapper	Mean Trap Days Per Trapper	Mean Traps Set Per Trapper Per Day	Mean Trap Days Per Animal	Mean Harvest Per Trap Day
Bobcat	3.24	26.31	655.51	14.112	202.166	0.005
Coyote	7.19	37.32	928.39	11.280	129.050	0.008
Fox	9.11	24.57	504.43	11.323	55.394	0.018
Beaver	14.28	32.22	559.14	9.797	39.161	0.026
Gray Fox	6.81	23.41	532.20	10.545	78.143	0.013
Mink	1.59	27.38	364.99	8.038	229.654	0.004
Muskrat	10.78	21.84	380.57	10.329	35.297	0.028
Nutria	8.24	20.37	267.71	6.267	32.498	0.031
Red Fox	4.55	24.04	604.45	11.085	132.897	0.008
River Otter	5.54	26.23	549.33	9.940	99.093	0.010
Spotted Skunk	1.00	7.50	45.00	3.000	45.000	0.022
Striped Skunk	4.03	16.74	211.06	5.476	52.411	0.019
Virginia Opossum	11.24	14.99	330.77	6.528	29.436	0.034
Weasels	0.00	20.71	205.43	6.571	0.000	0.000
Raccoon	11.64	22.74	415.90	9.269	35.715	0.028
Skunk	3.97	16.57	208.01	5.430	52.351	0.019

Total # of license holders	2,983	<u>Active Trapper Estimate</u>
Deceased license holder rate	0.0010057	# of Active Trappers from Respondents 775
Adj Total # of license holders	2,980	Proportion of Responding Trappers 0.5442416
Total # of surveys sent	2,983	Estimated Proportion of Non-responding Trappers 0.423
Undeliverables	92	SE 0.013198
Deceased	3	PSE 0.0242503
Sample size	2,888	Total Active Licensed Trappers 1,439
Sample rate	96.91%	Margin of Error @ 95% CL 68
Total Survey Returns	1,432	Active Trapper Rate within All License Holders 48.28%
Refused	8	
Total Survey Responses	1,424	
Response rate	49.31%	
Total Not Responding	1,464	

## 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:

	<b>Total Trappers</b>	<b>Total Trap Days</b>	<b>Total Harvest</b>
<b>Poor</b>	> 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
<b>Fair</b>	>=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
<b>Good</b>	>= 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