

**Trapper Estimates Report
2017-18 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	381	47	0.063	G	20.42%	147,519	43,102	0.149	G	1,096	216	0.101	G	12.00%	19.82%
Coyote	885	54	0.031	G	0.23%	550,526	94,078	0.087	G	9,077	1,527	0.086	G	0.24%	0.02%
Fox	620	53	0.044	G	22.83%	194,849	55,947	0.146	G	5,644	1,558	0.141	G	31.20%	25.03%
Beaver	699	54	0.039	G	0.57%	196,338	45,622	0.119	G	12,899	2,788	0.110	G	0.05%	0.03%
Gray Fox	534	52	0.049	G	29.85%	183,582	54,970	0.153	F	3,478	919	0.135	G	31.39%	30.36%
Mink	104	27	0.134	G	26.92%	15,771	11,291	0.365	P	181	66	0.186	F	4.40%	19.78%
Muskrat	261	35	0.069	G	18.79%	57,435	25,983	0.231	P	4,235	2,324	0.280	P		4.34%
Nutria	155	33	0.107	G	35.90%	20,017	10,528	0.268	P	2,199	920	0.214	P		32.97%
Red Fox	428	49	0.058	G	33.95%	169,722	54,258	0.163	F	2,165	675	0.159	F	30.91%	25.85%
River Otter	323	39	0.062	G	27.32%	65,221	25,551	0.200	F	1,702	441	0.132	G	0.49%	18.51%
Spotted Skunk	4	6	0.706	P	100.00%	0	0	0.000	P	4	0	0.000	P	100.00%	100.00%
Striped Skunk	197	36	0.094	G	56.57%	47,885	30,833	0.329	P	649	156	0.122	G	3.99%	60.12%
Virginia Opossum	803	54	0.034	G	49.88%	182,430	60,402	0.169	F	8,829	1,277	0.074	G	14.73%	50.09%
Weasels	2	4	0.999	P	0.00%	30			P	2			P		0.00%
Raccoon	962	53	0.028	G	22.57%	256,058	52,141	0.104	G	11,766	1,575	0.068	G	5.13%	14.85%
Skunk	199	36	0.093	G	57.00%	47,875	30,843	0.329	P	653	156	0.122	G	4.57%	60.37%

Species	Mean Traps Set					
	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	2.88	25.43	387.69	12.876	134.635	0.007
Coyote	10.26	38.26	622.40	17.905	60.652	0.016
Fox	9.11	22.90	314.49	11.395	34.524	0.029
Beaver	18.45	28.63	280.78	10.335	15.221	0.066
Gray Fox	6.51	21.76	343.85	10.846	52.779	0.019
Mink	1.75	11.29	152.24	8.627	86.994	0.011
Muskrat	16.20	18.09	219.71	9.039	13.562	0.074
Nutria	14.15	14.86	128.82	5.194	9.101	0.110
Red Fox	5.06	22.78	396.25	11.119	78.376	0.013
River Otter	5.26	20.27	201.69	7.840	38.323	0.026
Spotted Skunk	1.00	0.00	0.00	0.000	0.000	0.000
Striped Skunk	3.29	12.35	242.79	6.732	73.732	0.014
Virginia Opossum	11.00	15.53	227.23	6.490	20.662	0.048
Weasels	1.00	5.00	15.00	3.000	15.000	0.067
Raccoon	12.23	23.11	266.11	8.941	21.763	0.046
Skunk	3.28	12.22	240.32	6.663	73.267	0.014

Total # of license holders	3,006	Active Trapper Estimate	
Deceased license holder rate	0.000000	# of Active Trappers from Respondents	774
Adj Total # of license holders	3,006	Proportion of Responding Trappers	0.5466102
Total # of surveys sent	3,006	Estimated Proportion of Non-responding Trappers	0.4811
Undeliverables	93	SE	0.0132295
Deceased	0	PSE	0.0242028
Sample size	2,913	Total Active Licensed Trappers	1,542
Sample rate	96.91%	Margin of Error @ 95% CL	73
Total Survey Returns	1,419	Active Trapper Rate within All License Holders	51.29%
Refused	3		
Total Survey Responses	1,416		
Response rate	48.61%		
Total Not Responding	1,497		

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