

**Trapper Estimates Report
2019-20 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	281	34	0.061	G	16.41%	97,274	26,726	0.140	G	789	160	0.103	G	16.24%	27.55%
Coyote	817	49	0.031	G	0.23%	496,714	93,816	0.096	G	8,247	1,298	0.080	G	0.02%	0.05%
Fox	416	40	0.049	G	20.08%	199,791	67,594	0.173	F	3,863	808	0.107	G	22.18%	16.92%
Beaver	635	50	0.040	G	0.60%	202,090	47,937	0.121	G	11,461	2,478	0.110	G		0.03%
Gray Fox	352	37	0.054	G	30.60%	186,131	64,807	0.178	F	1,995	366	0.094	G	21.10%	18.20%
Mink	91	25	0.139	G	14.58%	17,055	11,747	0.351	P	99	41	0.213	P		17.31%
Muskrat	229	37	0.083	G	27.50%	38,884	18,465	0.242	P	1,804	535	0.151	F		13.31%
Nutria	149	31	0.107	G	44.87%	36,889	29,602	0.409	P	1,460	539	0.188	F	7.05%	35.38%
Red Fox	349	44	0.064	G	28.42%	213,805	78,976	0.188	F	2,172	544	0.128	G	23.42%	20.61%
River Otter	339	43	0.065	G	27.53%	111,948	41,474	0.189	F	1,926	809	0.214	P	0.99%	16.22%
Spotted Skunk	8	7	0.499	P	25.00%	2,001	1,860	0.474	P	10	19	1.000	P		100.00%
Striped Skunk	192	35	0.092	G	53.47%	75,261	51,005	0.346	P	650	121	0.095	G	1.17%	44.28%
Virginia Opossum	705	50	0.036	G	46.49%	227,532	71,234	0.160	F	7,511	1,229	0.083	G	13.09%	44.37%
Weasels	8	7	0.499	P	25.00%	152	129	0.433	P	2	4	1.000	P	100.00%	100.00%
Raccoon	930	47	0.026	G	20.49%	345,044	88,440	0.131	G	11,492	1,750	0.078	G	6.77%	13.98%
Skunk	194	35	0.092	G	53.92%	75,231	51,013	0.346	P	659	121	0.094	G	1.16%	45.09%

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	2.81	24.87	346.41	10.989	123.267	0.008
Coyote	10.09	29.75	607.66	16.596	60.231	0.017
Fox	9.29	27.05	480.59	14.656	51.723	0.019
Beaver	18.06	33.51	318.50	9.393	17.633	0.057
Gray Fox	5.66	24.26	528.07	13.484	93.307	0.011
Mink	1.08	17.57	186.48	6.136	172.133	0.006
Muskrat	7.89	14.61	170.06	7.291	21.549	0.046
Nutria	9.82	21.01	248.20	4.595	25.274	0.040
Red Fox	6.23	26.99	613.16	14.670	98.429	0.010
River Otter	5.68	25.00	330.07	7.772	58.113	0.017
Spotted Skunk	1.25	27.50	262.50	7.250	210.000	0.005
Striped Skunk	3.38	13.88	391.07	8.474	115.831	0.009
Virginia Opossum	10.65	19.61	322.74	8.202	30.292	0.033
Weasels	0.25	8.33	20.00	1.667	80.000	0.013
Raccoon	12.36	25.38	371.08	10.116	30.026	0.033
Skunk	3.39	13.74	387.08	8.388	114.111	0.009

Total # of license holders	2,992	Active Trapper Estimate	
Deceased license holder rate	0.0006684	# of Active Trappers from Respondents	723
Adj Total # of license holders	2,990	Proportion of Responding Trappers	0.5269679
Total # of surveys sent	2,992	Estimated Proportion of Non-responding Trappers	0.4029
Undeliverables	54	SE	0.0134791
Deceased	2	PSE	0.0255786
Sample size	2,936	Total Active Licensed Trappers	1,378
Sample rate	98.19%	Margin of Error @ 95% CL	69
Total Survey Returns	1,382	Active Trapper Rate within All License Holders	46.09%
Refused	10		
Total Survey Responses	1,372		
Response rate	46.73%		
Total Not Responding	1,564		

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