

**Trapper Estimates Report
2020-21 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	404	46	0.059	G	19.05%	174,477	86,002	0.251	P	1,141	270	0.121	G	6.58%	26.31%
Coyote	756	51	0.035	G	0.25%	430,477	101,034	0.120	G	7,312	1,331	0.093	G		0.03%
Fox	494	49	0.051	G	24.51%	144,679	38,590	0.136	G	3,704	940	0.129	G	21.30%	21.51%
Beaver	612	51	0.042	G	0.31%	162,839	42,479	0.133	G	10,156	2,228	0.112	G		0.02%
Gray Fox	419	47	0.057	G	32.57%	133,394	37,866	0.145	G	1,926	445	0.118	G	21.88%	24.88%
Mink	81	24	0.150	G	19.05%	56,666	79,368	0.715	P	100	46	0.236	P		15.38%
Muskrat	256	39	0.079	G	19.55%	79,618	79,143	0.507	P	1,987	630	0.162	F		7.07%
Nutria	140	31	0.111	G	41.10%	66,425	80,352	0.617	P	1,462	703	0.245	P		36.18%
Red Fox	344	44	0.065	G	35.20%	126,404	37,069	0.150	G	1,778	514	0.147	G	20.67%	26.19%
River Otter	316	43	0.069	G	27.44%	87,726	79,776	0.464	P	1,176	307	0.133	G	0.33%	20.62%
Spotted Skunk	2	4	0.999	P	0.00%	1,431			P	0	0	0.000	P	0.00%	0.00%
Striped Skunk	169	33	0.100	G	43.18%	31,773	12,694	0.204	P	529	153	0.148	G	2.18%	50.55%
Virginia Opossum	731	52	0.036	G	47.63%	177,934	87,069	0.250	P	6,100	932	0.078	G	17.13%	49.05%
Weasels	15	11	0.352	P	0.00%	3,836	4,258	0.566	P	0	0	0.000	P	0.00%	0.00%
Raccoon	960	49	0.026	G	18.04%	273,588	88,638	0.165	F	10,299	1,456	0.072	G	4.82%	14.68%
Skunk	169	33	0.100	G	43.18%	31,773	12,694	0.204	P	529	153	0.148	G	2.18%	50.55%

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	2.82	28.32	431.84	11.129	152.927	0.007
Coyote	9.67	39.84	569.32	15.080	58.869	0.017
Fox	7.49	28.38	292.60	9.737	39.064	0.026
Beaver	16.60	30.81	266.15	9.294	16.034	0.062
Gray Fox	4.59	25.39	318.04	9.104	69.263	0.014
Mink	1.24	26.90	701.26	13.282	566.399	0.002
Muskrat	7.77	20.52	311.14	9.213	40.060	0.025
Nutria	10.41	23.58	472.94	8.638	45.427	0.022
Red Fox	5.16	28.28	367.03	9.626	71.103	0.014
River Otter	3.73	19.22	278.03	7.631	74.626	0.013
Spotted Skunk	0.00	62.00	744.00	12.000	0.000	0.000
Striped Skunk	3.13	19.82	187.66	6.229	60.052	0.017
Virginia Opossum	8.34	17.09	243.38	6.575	29.171	0.034
Weasels	0.00	56.86	249.20	9.400	0.000	0.000
Raccoon	10.73	24.30	284.97	9.025	26.564	0.038
Skunk	3.13	19.82	187.66	6.229	60.052	0.017

Total # of license holders	3,281	Active Trapper Estimate	
Deceased license holder rate	0.0006096	# of Active Trappers from Respondents	747
Adj Total # of license holders	3,279	Proportion of Responding Trappers	0.5401302
Total # of surveys sent	3,281	Estimated Proportion of Non-responding Trappers	0.3599000
Undeliverables	100	SE	0.0134016
Deceased	2	PSE	0.0248117
Sample size	3,179	Total Active Licensed Trappers	1,437
Sample rate	96.95%	Margin of Error @ 95% CL	70
Total Survey Returns	1,386	Active Trapper Rate within All License Holders	43.83%
Refused	3		
Total Survey Responses	1,383		
Response rate	43.50%		
Total Not Responding	1,796		

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