

**Trapper Estimates Report  
2018-19 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	399	48	0.061	G	15.38%	178,582	62,007	0.177	F	1,176	223	0.097	G	10.09%	14.96%
Coyote	835	52	0.032	G	0.25%	477,526	90,557	0.097	G	7,638	1,241	0.083	G	0.05%	0.03%
Fox	534	51	0.049	G	18.01%	249,500	76,997	0.157	F	4,092	1,023	0.128	G	17.65%	14.20%
Beaver	632	53	0.043	G	0.00%	214,843	68,990	0.164	F	12,855	3,208	0.127	G		0.00%
Gray Fox	440	49	0.057	G	27.91%	219,402	74,791	0.174	F	2,410	681	0.144	G	15.37%	15.37%
Mink	92	26	0.144	G	8.89%	28,930	17,759	0.313	P	174	70	0.206	P		4.71%
Muskrat	248	40	0.083	G	20.66%	50,689	20,915	0.211	P	2,230	716	0.164	F		10.92%
Nutria	170	34	0.103	G	40.96%	22,337	13,359	0.305	P	1,234	404	0.167	F		21.72%
Red Fox	387	47	0.062	G	24.87%	232,869	75,512	0.165	F	1,716	369	0.110	G	20.51%	19.31%
River Otter	340	45	0.068	G	22.29%	71,472	23,391	0.167	F	2,019	550	0.139	G	0.20%	20.47%
Spotted Skunk	4	6	0.706	P	50.00%	737	1,444	1.000	P	2	4	1.000	P		100.00%
Striped Skunk	203	37	0.093	G	47.47%	47,572	31,201	0.335	P	686	151	0.112	G	5.07%	40.25%
Virginia Opossum	722	53	0.037	G	45.61%	235,682	69,555	0.151	F	8,350	1,314	0.080	G	10.44%	38.66%
Weasels	18	12	0.331	P	22.22%	3,786	4,607	0.621	P	6	9	0.707	P		100.00%
Raccoon	943	50	0.027	G	17.79%	331,635	71,746	0.110	G	10,876	1,457	0.068	G	4.89%	10.33%
Skunk	207	37	0.092	G	47.52%	48,287	31,187	0.330	P	688	152	0.112	G	5.05%	40.44%

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	2.95	26.27	447.64	12.642	151.848	0.007
Coyote	9.15	36.77	572.08	15.676	62.521	0.016
Fox	7.66	26.71	467.25	15.373	60.977	0.016
Beaver	20.33	31.33	339.85	10.789	16.713	0.060
Gray Fox	5.48	23.80	498.80	13.089	91.044	0.011
Mink	1.89	22.37	314.24	11.395	166.583	0.006
Muskrat	9.01	17.72	204.76	8.796	22.730	0.044
Nutria	7.27	12.28	131.54	6.041	18.106	0.055
Red Fox	4.44	26.71	602.24	15.270	135.707	0.007
River Otter	5.95	20.27	210.45	7.664	35.397	0.028
Spotted Skunk	0.50	5.00	180.00	18.000	360.000	0.003
Striped Skunk	3.39	15.90	234.88	6.789	69.331	0.014
Virginia Opossum	11.56	19.57	326.34	8.081	28.224	0.035
Weasels	0.33	21.44	205.63	7.750	616.875	0.002
Raccoon	11.53	25.73	351.63	10.422	30.492	0.033
Skunk	3.33	15.68	233.68	7.033	70.176	0.014

Total # of license holders	2,958	<u>Active Trapper Estimate</u>	
Deceased license holder rate	0.0000000	# of Active Trappers from Respondents	700
Adj Total # of license holders	2,958	Proportion of Responding Trappers	0.5343511
Total # of surveys sent	2,958	Estimated Proportion of Non-responding Trappers	0.4421
Undeliverables	94	SE	0.0137818
Deceased	0	PSE	0.0257917
Sample size	2,864	Total Active Licensed Trappers	1,433
Sample rate	96.82%	Margin of Error @ 95% CL	72
Total Survey Returns	1,315	Active Trapper Rate within All License Holders	48.43%
Refused	5		
Total Survey Responses	1,310		
Response rate	45.74%		
Total Not Responding	1,554		

## 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