

**Trapper Estimates Report  
2014-2015 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	526	50	0.048	G	12.07%	228,062	75,497	0.169	F	1,435	261	0.093	G	4.17%	10.62%	
Coyote	934	53	0.029	G	0.58%	976,748	631,117	0.330	P	7,611	1,614	0.108	G	0.12%	0.52%	
Fox	687	53	0.039	G	13.72%	309,879	77,458	0.128	G	6,624	1,287	0.099	G	17.74%	9.09%	
Beaver	717	48	0.034	G	0.23%	372,088	194,689	0.267	P	10,390	1,491	0.073	G	0.17%	0.05%	
Gray Fox	628	52	0.042	G	24.28%	290,491	84,155	0.148	G	4,995	961	0.098	G	17.03%	12.75%	
Mink	125	23	0.095	G	11.22%	36,985	13,896	0.192	F	237	82	0.177	F		9.68%	
Muskrat	455	48	0.054	G	9.56%	161,384	41,102	0.130	G	7,392	2,005	0.138	G		2.09%	
Nutria	180	33	0.095	G	30.30%	66,085	36,471	0.282	P	2,166	595	0.140	G		34.84%	
Red Fox	423	47	0.056	G	23.18%	221,347	76,881	0.177	F	1,658	353	0.109	G	19.58%	14.77%	
River Otter	452	48	0.054	G	16.87%	123,240	35,591	0.147	G	2,102	360	0.087	G	0.35%	10.27%	
Spotted Skunk	5	6	0.576	P	0.00%	3,383	6,286	0.948	P	4	4	0.500	P	50.00%	0.00%	
Striped Skunk	110	20	0.093	G	55.34%	17,338	8,459	0.249	P	409	79	0.098	G	1.83%	61.40%	
Virginia Opossum	891	53	0.031	G	50.71%	244,528	76,980	0.161	F	6,423	728	0.058	G	13.01%	50.58%	
Weasels	9	8	0.446	P	0.00%	3,007	2,639	0.448	P	2	4	1.000	P		0.00%	
Raccoon	1,183	48	0.021	G	12.88%	632,927	240,344	0.194	F	12,582	1,621	0.066	G	3.92%	5.78%	
Skunk	117	21	0.092	G	54.29%	20,168	9,552	0.242	P	430	83	0.098	G	2.08%	61.09%	

Mean Traps Set

Species	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	2.73	26.02	433.56	10.133	158.952	0.006
Coyote	8.15	37.41	1045.60	14.097	128.333	0.008
Fox	9.64	26.42	450.76	11.791	46.779	0.021
Beaver	14.49	26.82	519.02	9.480	35.812	0.028
Gray Fox	7.96	23.72	462.86	10.982	58.153	0.017
Mink	1.90	23.61	295.72	8.609	155.807	0.006
Muskrat	16.24	22.89	354.47	10.743	21.833	0.046
Nutria	12.06	17.84	368.01	8.455	30.513	0.033
Red Fox	3.92	25.92	523.73	11.246	133.511	0.007
River Otter	4.65	22.93	272.86	7.209	58.622	0.017
Spotted Skunk	0.67	31.67	621.67	11.000	932.500	0.001
Striped Skunk	3.72	11.84	157.51	4.717	42.391	0.024
Virginia Opossum	7.21	15.41	274.56	6.053	38.069	0.026
Weasels	0.20	46.60	331.60	6.000	1658.000	0.001
Raccoon	10.64	26.94	535.18	10.534	50.304	0.020
Skunk	3.66	12.25	171.92	4.931	46.927	0.021

Total # of license holders	3,547
Deceased license holder rate	0.0014096
Adj Total # of license holders	3,542
Total # of surveys sent	3,547
Undeliverables	148
Deceased	5
Sample size	3,394
Sample rate	95.82%
Total Survey Returns	1,626
Refused	9
Total Survey Responses	1,617
Response rate	47.64%
Total Not Responding	1,777

Active Trapper Estimate

# of Active Trappers from Respondents	905
Proportion of Responding Trappers	0.5596784
Estimated Proportion of Non-responding Trappers	0.3759
SE	0.0123452
PSE	0.0220577
Total Active Licensed Trappers	1,642
Margin of Error @ 95% CL	71
Active Trapper Rate within All License Holders	46.35%

## 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