



REGISTERED FURBEARER HARVEST STATISTICS 2019-20

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INTRODUCTION

Monitoring harvest is an important component of population management for some wildlife populations. For many species, harvest represents a large proportion of overall mortality. Obtaining harvest information can be useful for documenting changes in the distribution and abundance of animals, as well as the effects of changes in harvest seasons, harvest techniques, and habitat. The level of detail or accuracy necessary in harvest information may vary across species, depending on such factors as population density, harvest pressure, habitat 'sensitivity' of the species, and reproductive potential.

In Minnesota, detailed harvest information is collected on 4 carnivores – fishers (*Pekania pennanti*), martens (*Martes americana*), bobcats (*Lynx rufus*), and river otters (*Lontra canadensis*). These species have lower reproductive potential, naturally occur at low to moderate densities, have comparatively restricted distributions, or may be more influenced by habitat change. Hence, detailed harvest information has been collected on these species for the past 42 years to help ensure sustainable harvests and populations.

METHODS

Hunters and trappers are required to bring pelts from harvested animals (fishers, martens, bobcats, and otters) in to fur registration stations usually within 48 hours of the close of the season. Upon registration, information is collected on the sex, date, method of take, and harvest location (township) for each animal, and the pelt is tagged to verify it has been registered.

RESULTS

Currently, harvest of fishers, martens, and bobcats is allowed in approximately the northern 60% of the state, while otter harvest is allowed statewide (Figure 1). There were changes to season structures for all four registered species this year compared to the 2018 season. The starting date for the fisher-marten-bobcat season was delayed approximately one month (to December 21); the fisher-marten season was also lengthened from 6 days to 9 days (bobcat season length did not change). Otter season length was increased by three weeks on the back end, with the season closure coinciding with the end of the revised bobcat season. Individual hunter-trapper quotas did not change for any species. Compared to the previous year, bobcat harvest decreased 32%, fisher harvest decreased 9%, marten harvest declined 12%, and otter harvest decreased 22%. Detailed harvest summaries are provided in the following tables and graphs. Data for years prior to those presented in this report is available (back to 1977) by contacting the Minnesota DNR.

ACKNOWLEDGEMENTS

I thank the many individuals from the Minnesota Department of Natural Resources for their assistance with collection of data contained in this report. This work was funded in part by the Wildlife Restoration Program (Pittman-Robertson).

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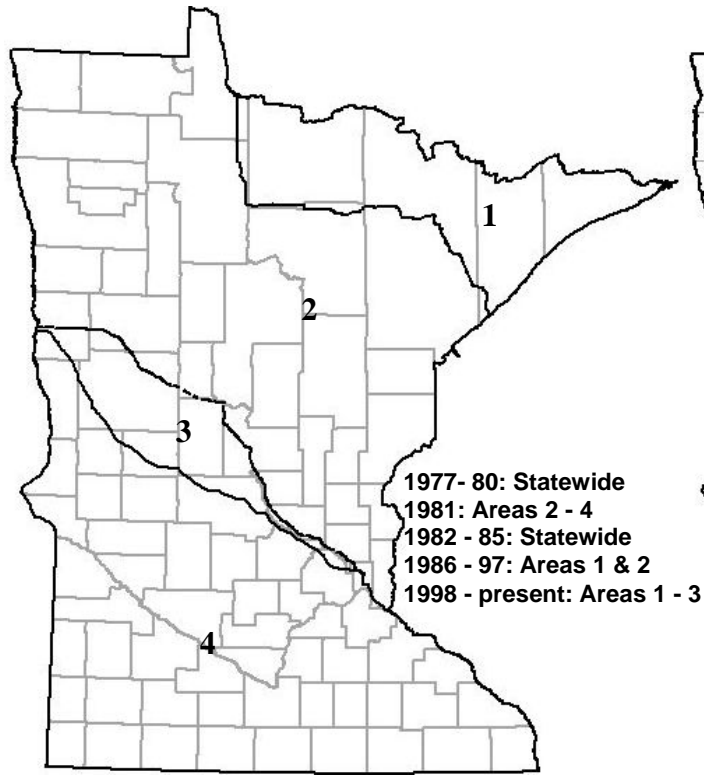
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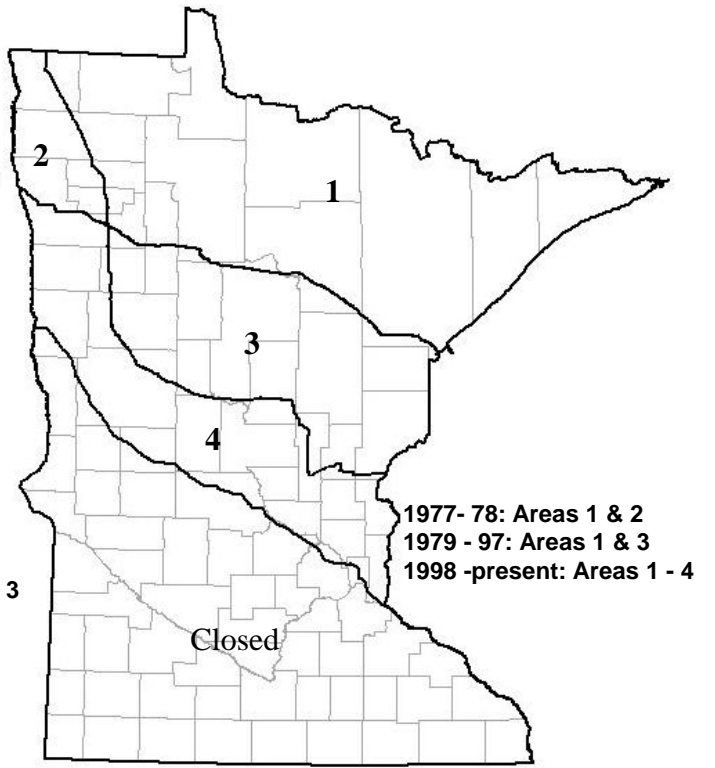
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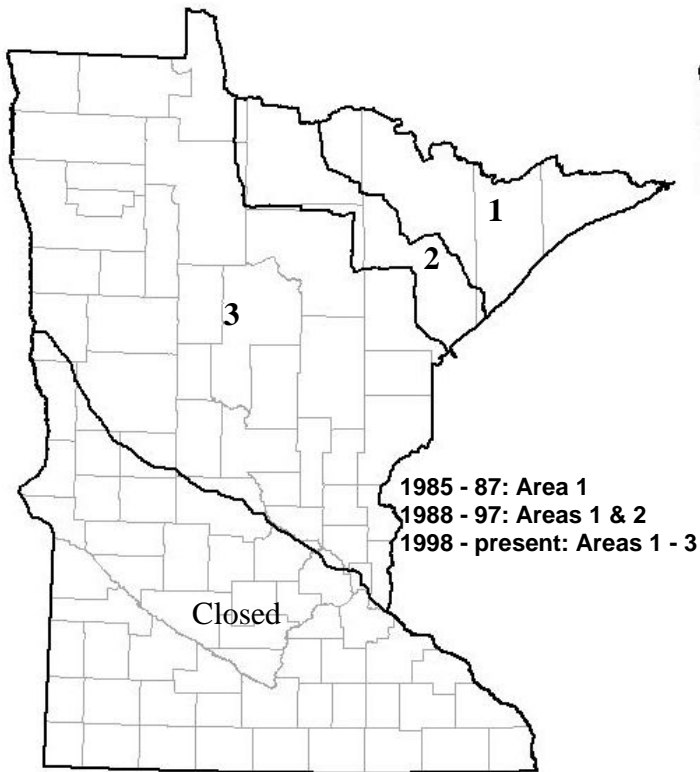
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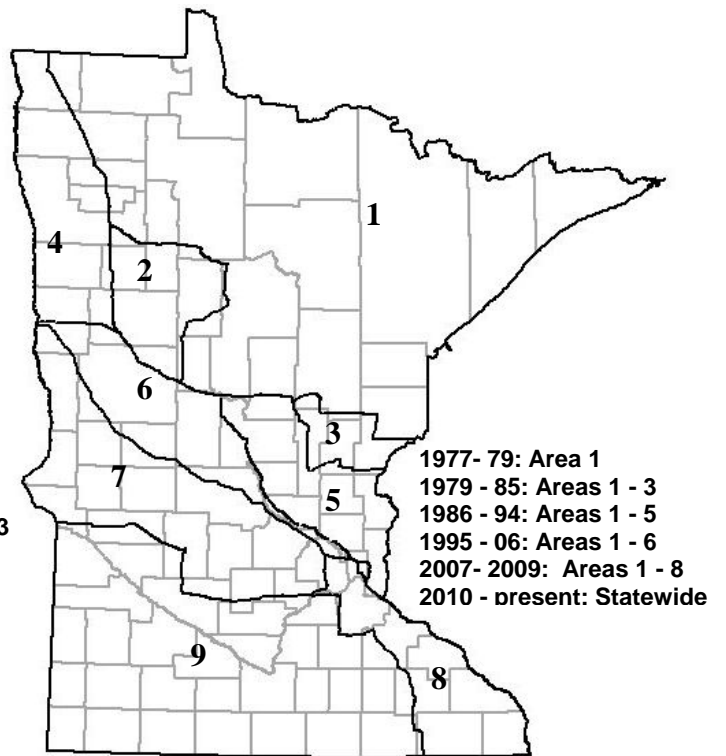
Bobcat



Fisher



Marten



Otter

Figure 1. Open trapping areas for fisher, marten, bobcat, and otter, 1977 - present.

Table 1. Registered furbearer seasons and harvests, 1989-2019.

Year	Bobcat				Fisher				Marten				Otter			
	Season	Days	Limit	Harvest	Season	Days	Limit ^a	Harvest	Season	Days	Limit ^a	Harvest	Season ^b	Days	Limit ^c	Harvest
1989-90	12/2-1/7	37	5	129	12/2-12/17	16	1	1243	12/2-12/17	16	2	2119	10/28-12/17	51	3	1294
1990-91	12/1-1/6	37	5	84	12/1-12/16	16	1	746	12/1-12/16	16	2	1349	10/27-1/6	71	3	888
1991-92	11/30-1/5	37	5	106	11/30-12/15	16	1	528	11/30-12/15	16	1	686	10/26-1/5	71	3	855
1992-93	11/28-1/3	37	5	168	11/28-12/13	16	1	778	11/28-12/13	16	2	1602	10/24-1/3	71	4	1368
1993-94	12/4-1/9	37	5	201	12/4-12/19	16	2	1159	12/4-12/19	16	2	1438	10/23-1/9	78	4	1459
1994-95	12/3-1/8	37	5	238	12/3-12/18	16	2	1772	12/3-12/18	16	2	1527	10/29-1/8	71	4	2445
1995-96	12/2-1/7	37	5	134	12/2-12/17	16	2	942	12/2-12/17	16	2	1500	10/28-1/7	71	4	1435
1996-97	11/30-1/5	37	5	223	11/30-12/15	16	2	1773	11/30-12/15	16	2	1625	10/26-1/5	71	4	2219
1997-98	11/29-1/4	37	5	359	11/29-12/14	16	2	2761	11/29-12/14	16	2	2261	10/25-1/4	71	4	2145
1998-99	11/28-12/13	16	5	103	11/28-12/13	16	2	2695	11/28-12/13	16	2	2299	10/24-1/3	71	4	1946
1999-00	12/4-1/9	37	5	206	12/4-12/19	16	2	1725	12/4-12/19	16	4	2423	10/23-1/9	78	4	1635
2000-01	12/2-1/7	37	5	231	12/2-12/17	16	4	1674	12/2-12/17	16	4	1629	10/28-1/7	71	4	1578
2001-02	11/24-1/6	44	5	250	11/24-12/9	16	4	2119	11/24-12/9	16	4	1928	10/27-1/6	71	4	2301
2002-03	11/30-1/5	37	5	544	11/30-12/15	16	5	2660	11/30-12/15	16	5	2839	10/26-1/5	71	4	2145
2003-04	11/29-1/4	37	5	483	11/29-12/14	16	5	2521	11/29-12/14	16	5	3214	10/25-1/4	71	4	2766
2004-05	11/27-1/9	44	5	631	11/27-12/12	16	5	2552	11/27-12/12	16	5	3241	10/23-1/9	78	4	3450
2005-06	11/26-1/8	44	5	590	11/26-12/11	16	5	2388	11/26-12/11	16	5	2653	10/29-1/8	71	4	2846
2006-07	11/25-1/7	44	5	890	11/25-12/10	16	5	3251	11/25-12/10	16	5	3788	10/28-1/7	71	4	2720
2007-08	11/24-1/6	44	5	702	11/24-12/2	9	5	1682	11/24-12/2	9	5	2221	10/27-1/6	71	2/4	1861
2008-09	11/29-1/4	37	5	853	11/29-12/7	9	5	1712	11/29-12/7	9	5	1823	10/25-1/4	71	2/4	1938
2009-10	11/28-1/3	37	5	884	11/28-12/6	9	5	1259	11/28-12/6	9	5	2073	10/24-1/3	71	2/4	1544
2010-11	11/27-1/9	44	5	1012	11/27-12/5	9	2	903	11/27-12/5	9	5	1842	10/23-1/9	78	4	1814
2011-12	11/26-1/8	44	5	1711	11/26-12/4	9	2	1473	11/26-12/4	9	5	2525	10/22-1/8	78	4	2294
2012-13	11/24-1/6	44	5	1875	11/24-11/29	6	2	1293	11/24-11/29	6	5	1472	10/27-1/6	71	4	3171
2013-14	11/30-1/5	37	5	1038	11/30-12/5	6	2	1146	11/30-12/5	6	2	1014	10/26-1/5	71	4	2824
2014-15	11/29-1/4	37	5	1384	11/29-12/4	6	2	943	11/29-12/4	6	2	1059	10/25-1/4	71	4	2154
2015-16	11/28-1/3	37	5	766	11/28-12/3	6	2	756	11/28-12/3	6	2	877	10/24-1/3	71	4	1955
2016-17	11/26-1/8	44	5	485	11/26-12/1	6	2	399	11/26-12/1	6	2	551	10/29-1/8	78	4	1195
2017-18	11/25-1/7	44	5	731	11/25-11/30	6	2	477	11/25-11/30	6	2	979	10/28-1/7	78	4	1295
2018-19	11/24-1/6	44	5	1015	11/24-11/29	6	2	510	11/24-11/29	6	2	665	10/27-1/6	78	4	1351
2019-20	12/21-1/26	37	5	695	12/21-12/29	9	2	463	12/21-12/29	9	2	585	10/26-1/26	99	4	1050

^a Starting in 1997, the limit on fisher/marten became a combined limit. In years after, the combined limit for a given year is the higher of the 2 reported above (if different).

^b In some years, otter season opens 1 week earlier in a north zone as compared to a south zone. Otter season dates in this table reflect the start of the north zone.

^c From 2007-2009, otter limits differ between a southeast zone (limit=2; Area 8, Fig. 1) and the remainder of the open area (limit=4).

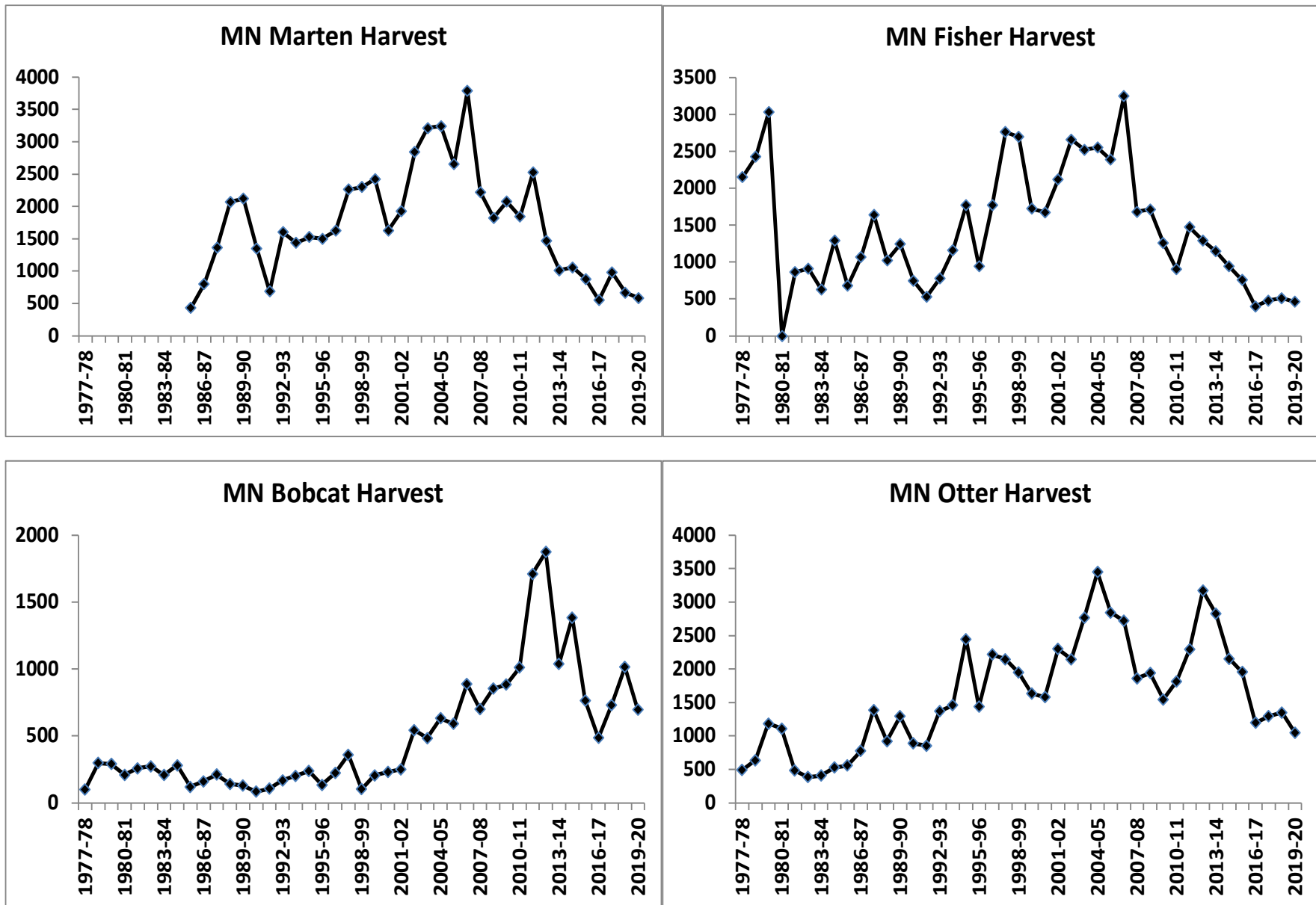


Figure 2. Harvest of registered furbearers in Minnesota, 1977-present.

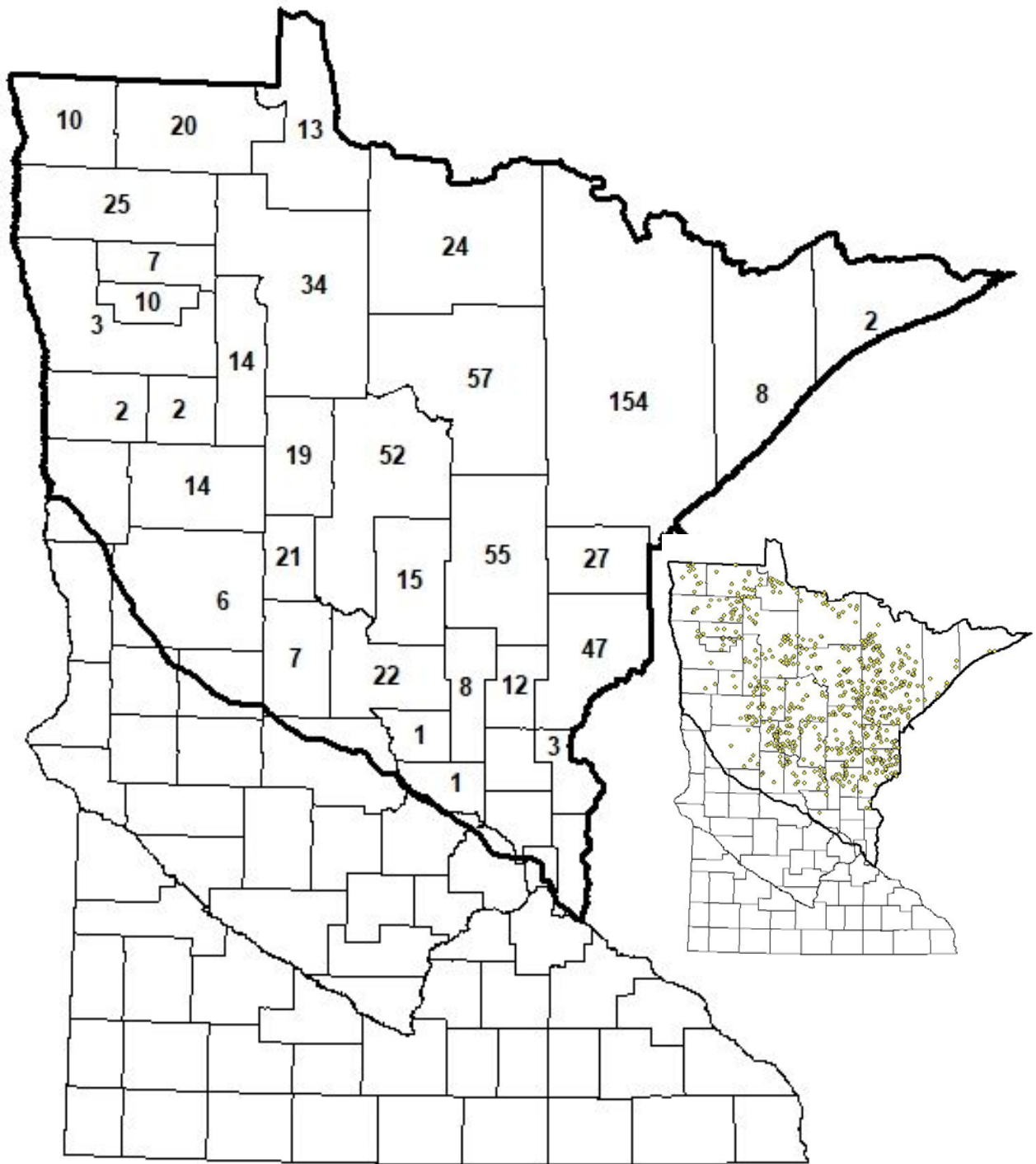


Figure 3. Bobcat harvest by county, 2019-20. Inset shows spatial distribution of harvest locations.

Table 2. Bobcat harvest by county and sex, 2019-20.

County	Sex*			Total	Harvest/ 100 Mile ²
	Female	Male	Unknown		
Aitkin	28	27		55	2.76
Anoka	0	0		0	0.00
Becker	7	7		14	0.97
Beltrami	17	17		34	1.11
Benton	1	0		1	0.24
Carlton	13	14		27	3.09
Cass	34	18		52	2.16
Chisago	1	2		3	0.68
Clay	0	0		0	0.00
Clearwater	4	10		14	1.36
Cook	0	2		2	0.12
Crow Wing	9	6		15	1.30
Douglas	0	0		0	0.00
Hubbard	9	10		19	1.90
Isanti	0	0		0	0.00
Itasca	36	21		57	1.95
Kanabec	6	6		12	2.25
Kittson	6	4		10	0.90
Koochiching	17	7		24	0.76
Lake	4	4		8	0.35
Lake of the Woods	8	4	1	13	0.73
Mahnomen	1	1		2	0.34
Marshall	13	12		25	1.38
Mille Lacs	6	2		8	1.18
Morrison	14	8		22	1.91
Norman	.	2		2	0.23
Otter Tail	2	4		6	0.27
Pennington	4	3		7	1.13
Pine	28	19		47	3.28
Polk	2	1		3	0.15
Red Lake	4	6		10	2.31
Roseau	16	4		20	1.19
Sherburne	1	.		1	0.22
St. Louis	103	51		154	2.29
Stearns	0	0		0	0.00
Todd	4	3		7	0.71
Wadena	11	10		21	3.87
Unknown	0	0		0	
Total	409	285	1	695	

* Trapper/hunter reported sex ratios in this table are **NOT** adjusted according to results from DNR carcass analyses

Table 3. Comparison of bobcat harvest by county, 2009-2019.

County	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Aitkin	82	73	121	142	65	105	39	22	41	51	55
Anoka	0	0	1	0	0	1	0	0	0	0	0
Becker	25	39	70	58	36	48	36	10	31	22	14
Beltrami	70	108	139	139	59	73	49	30	37	60	34
Benton	2	0	4	3	3	0	0	1	2	3	1
Carlton	44	37	94	63	42	88	25	16	33	42	27
Cass	115	117	164	150	76	126	73	44	72	91	52
Chisago	0	1	0	3	1	1	3	4	2	5	3
Clay	1	3	1	3	2	3	1	0	0	2	0
Clearwater	27	30	58	40	19	29	15	13	14	18	14
Cook	0	1	3	3	9	17	1	0	2	0	2
Crow Wing	38	29	64	65	19	32	21	7	24	28	15
Douglas	0	0	0	1	1	0	0	0	0	1	0
Hubbard	81	59	129	105	51	50	45	21	44	41	19
Isanti	0	0	0	0	1	0	1	1	0	0	0
Itasca	106	132	186	194	93	110	50	19	54	86	57
Kanabec	11	16	21	46	16	46	12	11	16	24	12
Kittson	4	9	10	7	5	5	7	6	3	3	10
Koochiching	25	54	66	82	50	40	22	25	26	62	24
Lake	2	7	15	21	13	15	8	4	8	24	8
Lake of the Woods	16	10	28	13	20	26	10	7	5	14	13
Mahnomen	4	2	9	7	4	4	3	5	2	4	2
Marshall	15	31	42	44	15	21	19	14	12	30	25
Mille Lacs	10	10	13	23	7	14	5	2	10	19	8
Morrison	13	23	25	35	15	25	16	17	19	37	22
Norman	1	0	3	6	3	8	4	1	4	7	2
Otter Tail	7	14	21	38	18	17	16	15	22	12	6
Pennington	6	5	4	13	7	3	4	1	4	8	7
Pine	49	50	94	135	54	87	56	37	43	46	47
Polk	9	9	17	20	10	16	15	10	9	5	3
Red Lake	7	16	20	25	6	11	3	1	15	10	10
Roseau	19	26	46	60	38	27	20	23	23	45	20
Sherburne	1	0	3	0	0	0	0	0	0	0	1
St. Louis	56	81	202	283	255	307	156	91	123	182	154
Stearns	0	0	0	0	2	0	1	0	0	0	0
Todd	10	9	14	16	5	8	8	9	13	10	7
Wadena	21	9	17	23	18	18	10	18	18	23	21
Unknown	7	2	7	9	0	3	12	0	0	0	0
Total	884	1012	1711	1875	1038	1384	766	485	731	1015	695

Table 4. Bobcat harvest by sex and week, 2019-20 season.

Date	Sex*			Total	% of Total	Cumulative %
	Female	Male	Unknown			
Dec.21 - Dec.27	121	88		209	30.07	30.07
Dec.28 - Jan.3	90	72		162	23.31	53.38
Jan.4 - Jan.10	64	38		102	14.68	68.06
Jan.11 - Jan.17	71	37		108	15.54	83.60
Jan.18 - Jan.26**	51	48	1	100	14.39	97.99
Unknown	12	2		14	2.01	100.00
Total	409	285	1	695	100%	

* Trapper/hunter reported sex ratios in this table are **NOT** adjusted according to results from DNR carcass analyses

** 9-day interval

Table 5. Distribution of bobcat harvest* among takers, 1994-2019.

Number (%) of Takers	Number Taken					Total Takers
	1	2	3	4	5	
1994-95	103 (68)	25 (17)	12 (8)	6 (4)	5 (3)	151
1995-96	67 (74)	13 (14)	5 (6)	4 (4)	2 (2)	91
1996-97	115 (73)	28 (18)	85 (5)	2 (1)	4 (3)	157
1997-98	129 (61)	43 (20)	17 (8)	12 (6)	9 (5)	210
1998-99	59 (77)	11 (14)	2 (3)	3 (4)	1 (2)	76
1999-00	113 (76)	21 (14)	10 (6)	4 (3)	1(1)	149
2000-01	99 (69)	23 (16)	7 (5)	5 (4)	9 (6)	143
2001-02	101 (71)	23 (16)	12 (8)	1 (1)	5 (4)	142
2002-03	185 (60)	64 (21)	33 (10)	15 (5)	12 (4)	309
2003-04	171 (64)	40 (15)	25 (10)	20 (7)	11 (4)	267
2004-05	193 (59)	55 (17)	32 (10)	25 (7)	24 (7)	329
2005-06	198 (60)	67 (20)	33 (10)	15 (5)	18 (5)	331
2006-07	265 (57)	90 (19)	44 (9)	25 (5)	42 (9)	466
2007-08	212 (58)	71 (19)	30 (8)	16 (4)	38 (10)	367
2008-09	236 (55)	88 (21)	43 (10)	25 (6)	37 (9)	429
2009-10	223 (53)	80 (19)	40 (9)	30 (7)	51 (12)	424
2010-11	242 (50)	103 (21)	58 (12)	35 (7)	49 (10)	487
2011-12	351 (47)	126 (17)	86 (12)	62 (8)	118 (16)	743
2012-13	380 (45)	167 (20)	108 (13)	82 (10)	100 (12)	837
2013-14	350 (60)	112 (19)	51 (9)	44 (8)	26 (4)	583
2014-15	383 (54)	131 (19)	84 (12)	49 (7)	58 (8)	705
2015-16	248 (59)	87 (21)	33 (8)	29 (7)	25 (6)	422
2016-17	126 (58)	47 (22)	26 (12)	6 (3)	11 (5)	216
2017-18	257 (61)	95 (22)	31 (7)	16 (4)	25 (6)	424
2018-19	260 (53)	87 (18)	59 (12)	42 (8)	47 (9)	495
2019-20	214 (57)	77 (21)	37 (10)	19 (5)	27 (7)	374

* Product of categories above may not equal total harvest due to some missing names/license numbers

Table 6. Bobcat harvest by method of take, 1992-2019.

Year	Total	Trapping				Hunting					
	Harvest ^a	Harvest	% of Total	# Takers	Ave. Take	% Males ^b	Harvest	% of Total	# Takers	Ave. Take	% Males ^b
1992-93	168	133	79	85	1.6		35	21	23	1.5	
1993-94	201	147	73	88	1.7		54	27	41	1.3	
1994-95	238	189	79	120	1.6		49	21	31	1.6	
1995-96	134	73	54	53	1.4		61	46	38	1.6	
1996-97	203	133	66	91	1.5		70	34	53	1.3	
1997-98	357	313	88	176	1.8		44	12	34	1.3	
1998-99	103	95	92	67	1.4		8	8	8	1.0	
1999-00	206	155	75	114	1.4		51	25	36	1.4	
2000-01	231	140	61	85	1.6		91	39	58	1.6	
2001-02	250	208	83	116	1.8	41	42	17	27	1.6	68
2002-03	544	500	92	279	1.8	38	44	8	32	1.4	57
2003-04	483	415	86	230	1.8	46	68	14	40	1.7	65
2004-05	631	542	86	279	1.9	43	89	14	53	1.7	60
2005-06	583	435	75	250	1.7	37	148	25	85	1.7	65
2006-07	890	779	88	391	2.0	45	111	12	81	1.4	57
2007-08	702	524	75	266	2.0	40	178	25	110	1.6	48
2008-09	853	689	81	334	2.1	42	164	19	99	1.7	59
2009-10	884	736	83	340	2.2	43	148	17	91	1.6	58
2010-11	1012	817	81	372	2.2	40	195	19	123	1.6	50
2011-12	1708	1606	94	670	2.4	47	102	6	74	1.4	60
2012-13	1875	1681	90	721	2.3	46	194	10	130	1.5	52
2013-14	1038	879	85	490	1.8	40	159	15	107	1.5	55
2014-15	1384	1260	91	622	2.0	44	124	9	86	1.4	56
2015-16	766	657	86	355	1.9	49	109	14	68	1.6	70
2016-17	485	377	78	215	1.8	41	108	22	69	1.6	54
2017-18	731	606	83	335	1.8	45	125	17	93	1.3	59
2018-19	1015	865	85	406	2.1	48	150	15	98	1.5	58
2019-20	692	570	82	297	1.9	36	122	18	84	1.5	66

^a Total harvest reported here may not be equal to total harvest in other tables due to incomplete method-of-take data.

^b Trapper/hunter reported sex ratios in this table are **NOT** adjusted according to results from DNR carcass analyses

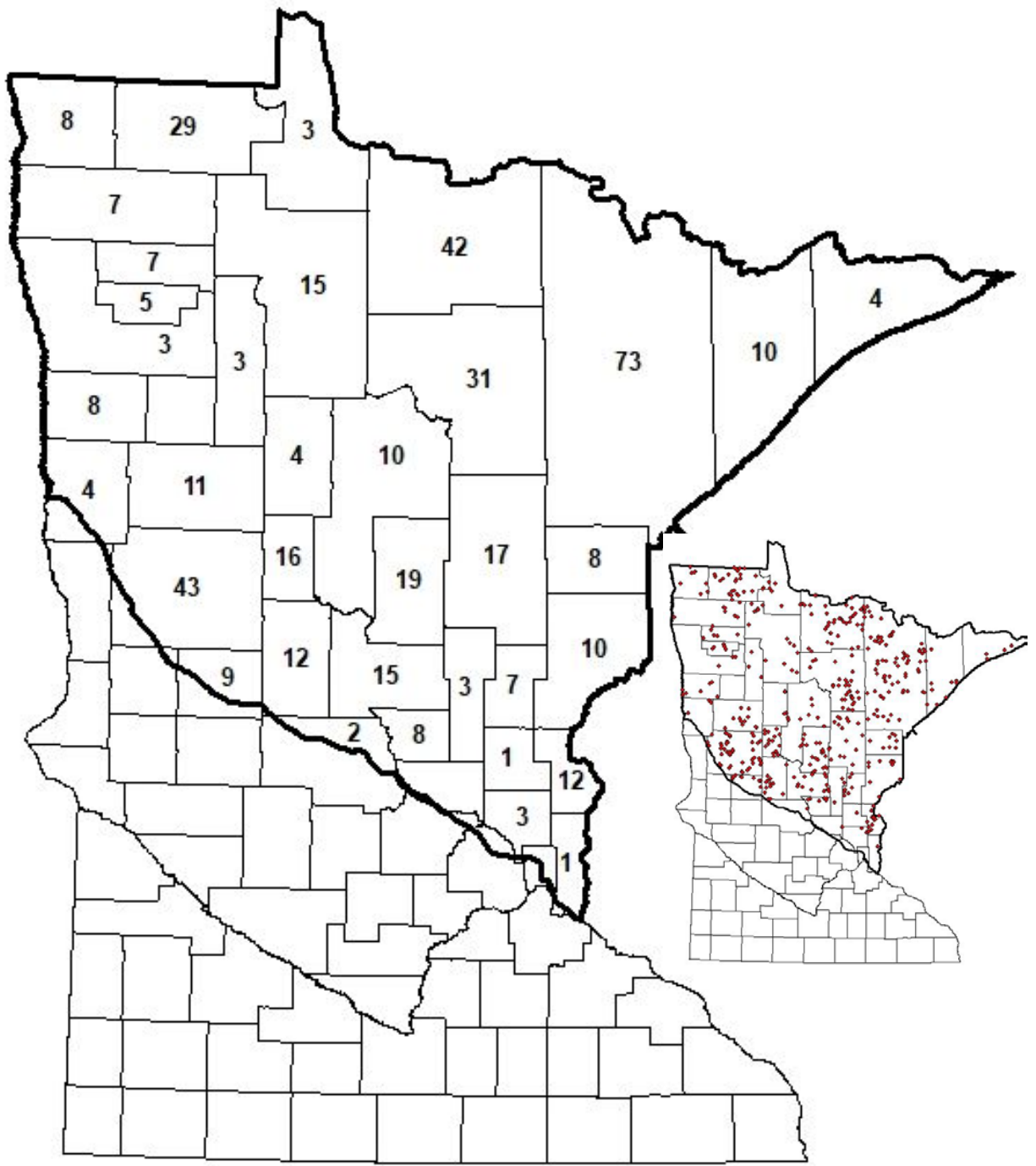


Figure 4. Fisher harvest by county, 2019. Inset shows spatial distribution of harvest locations.

Table 7. Fisher harvest by county and sex, 2019 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Female	Male	Unknown		
Aitkin	6	11		17	0.85
Anoka	1	2		3	0.67
Becker	2	9		11	0.76
Beltrami	6	9		15	0.49
Benton	0	8		8	1.94
Carlton	3	5		8	0.91
Cass	4	6		10	0.41
Chisago	4	8		12	2.71
Clay	1	3		4	0.38
Clearwater	1	2		3	0.29
Cook	1	3		4	0.25
Crow Wing	8	11		19	1.64
Douglas	4	5		9	1.25
Grant	0	0		0	0.00
Hubbard	1	3		4	0.40
Isanti	1	0		1	0.22
Itasca	15	16		31	1.06
Kanabec	4	3		7	1.31
Kittson	5	3		8	0.72
Koochiching	19	21	2	42	1.33
Lake	5	5		10	0.44
Lake of the Woods	1	2		3	0.17
Mahnomen	0	0		0	0.00
Marshall	3	4		7	0.39
Mille Lacs	2	1		3	0.44
Morrison	7	8		15	1.30
Norman	5	3		8	0.91
Otter Tail	21	22		43	1.93
Pennington	4	3		7	1.13
Pine	7	3		10	0.70
Polk	2	1		3	0.15
Red Lake	1	4		5	1.15
Roseau	12	17		29	1.73
Sherburne	0	0		0	0.00
St. Louis	36	37		73	1.08
Stearns	0	2		2	0.14
Todd	5	7		12	1.23
Wadena	6	10		16	2.95
Washington	0	1		1	0.24
Wilkin	0	0		0	0.00
Unknown	0	0		0	
Total	203	258	2	463	

Table 8. Comparison of fisher harvest by county, 2008-2019.

County	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Aitkin	75	50	35	55	52	47	24	38	16	10	15	17
Anoka	2	0	0	1	2	1	2	7	4	0	4	3
Becker	36	44	30	32	45	38	21	23	3	18	10	11
Beltrami	15	22	10	25	21	17	4	8	9	6	6	15
Benton	3	2	0	5	5	2	4	3	7	4	7	8
Carlton	19	15	12	12	14	8	14	13	6	1	9	8
Cass	77	57	43	41	37	23	30	24	11	12	16	10
Chisago	4	10	6	10	3	4	16	18	11	8	23	12
Clay	3	0	6	10	6	5	6	4	4	2	8	4
Clearwater	37	13	6	8	5	12	3	2	3	0	7	3
Cook	10	11	17	28	11	13	11	5	4	3	8	4
Crow Wing	116	42	48	64	55	51	34	31	13	17	17	19
Douglas	5	2	6	15	24	8	20	12	6	2	8	9
Grant	0	0	1	0	0	0	0	0	0	0	0	0
Hubbard	38	18	13	10	11	10	8	6	5	6	8	4
Isanti	5	9	1	4	6	11	11	12	3	13	6	1
Itasca	195	166	88	142	105	116	78	47	13	34	30	31
Kanabec	26	20	13	21	27	30	9	10	6	2	6	7
Kittson	8	5	7	5	9	11	2	3	5	7	6	8
Koochiching	115	96	51	116	80	51	67	45	23	40	31	42
Lake	54	49	45	56	53	35	28	14	14	12	16	10
Lake of the Woods	42	21	9	33	21	13	12	15	6	9	3	3
Mahnomen	6	3	0	3	0	4	2	0	0	0	0	0
Marshall	26	6	7	13	14	17	22	22	6	5	12	7
Mille Lacs	17	18	18	17	20	17	12	6	13	7	8	3
Morrison	14	10	8	10	24	25	23	15	16	11	25	15
Norman	12	7	4	10	19	21	12	5	9	3	6	8
Otter Tail	152	67	100	138	121	117	102	77	41	53	59	43
Pennington	8	2	4	8	8	11	19	11	4	9	10	7
Pine	74	30	26	22	42	46	44	35	18	17	7	10
Polk	49	31	25	54	58	45	32	22	11	9	11	3
Red Lake	23	23	10	17	16	24	18	6	8	18	14	5
Roseau	89	58	20	79	61	42	32	26	15	24	18	29
Sherburne	0	3	1	6	2	2	2	2	0	0	6	0
St. Louis	283	296	186	350	233	220	171	125	61	72	66	73
Stearns	1	1	0	4	1	4	2	3	3	5	2	2
Todd	33	22	18	15	29	22	15	19	12	20	7	12
Wadena	37	23	23	31	25	23	21	26	9	17	11	16
Washington	0	0	0	1	1	0	2	2	1	1	4	1
Wilkin	0	0	0	1	0	0	0	0	0	0	0	0
Unknown	3	7	6	1	27	0	8	14	0	0	0	0
Total	1,712	1,259	903	1,473	1,293	1,146	943	756	399	477	510	463

Table 9. Fisher harvest by date and sex, 2019 season.

Date	Sex			Total	% of Known	Cumulative
	Female	Male	Unknown		Total	%
Dec. 21	0	3		3	0.65	0.65
Dec. 22	20	27	1	48	10.37	11.02
Dec. 23	34	55	1	90	19.44	30.45
Dec. 24	33	33		66	14.25	44.71
Dec. 25	19	33		52	11.23	55.94
Dec. 26	22	29		51	11.02	66.95
Dec. 27	28	28		56	12.10	79.05
Dec. 28	27	35		62	13.39	92.44
Dec. 29	19	13		32	6.91	99.35
Unknown	1	2		3	0.65	100%
Total	203	258	2	463	100%	

Table 10. Distribution of fisher harvest* among trappers, 1993-2019.

Number (%) of Takers	Number Taken					Total Takers	Ave. Take
	1	2	3	4	5		
1993	239 (34)	460 (66)	----	----	----	699	1.7
1994	321 (31)	725 (69)	----	----	----	1046	1.7
1995	232 (40)	355 (60)	----	----	----	587	1.6
1996	321 (31)	726 (69)	----	----	----	1047	1.7
1997	351 (23)	1205 (77)	----	----	----	1556	1.8
1998	443 (28)	1141 (72)	----	----	----	1584	1.7
1999	397 (37)	664 (63)	----	----	----	1061	1.6
2000	301(38)	251 (31)	129 (16)	121 (15)	----	802	2.1
2001	294 (33)	271 (31)	146 (17)	168 (19)	----	879	2.2
2002	336 (35)	234 (25)	138 (15)	117 (12)	123 (13)	948	1.8
2003	403 (39)	249 (24)	150 (15)	107 (11)	115 (11)	1024	1.7
2004	390 (37)	260 (25)	184 (17)	95 (9)	132 (12)	1061	1.7
2005	407 (40)	251 (24)	150 (15)	102 (10)	118 (11)	1028	1.7
2006	510 (37)	328 (24)	208 (15)	150 (11)	171 (13)	1367	1.7
2007	416 (50)	193 (23)	104 (12)	68 (8)	57 (7)	838	1.7
2008	382 (48)	182 (23)	91 (11)	65 (8)	79 (10)	799	1.6
2009	372 (55)	156 (23)	69 (10)	42 (6)	38 (6)	677	1.6
2010	330 (54)	279 (46)	----	----	----	609	1.5
2011	553 (55)	451 (45)	----	----	----	1004	1.4
2012	453 (52)	415 (48)	----	----	----	868	1.5
2013	501 (61)	316 (39)	----	----	----	817	1.4
2014	434 (63)	254 (37)	----	----	----	688	1.4
2015	346 (63)	203 (37)	----	----	----	549	1.4
2016	177 (61)	111 (39)	----	----	----	288	1.4
2017	246 (68)	114 (32)	----	----	----	360	1.3
2018	253 (66)	128 (34)	----	----	----	381	1.3
2019	259 (72)	101 (28)	----	----	----	360	1.3

* Product of categories above may not equal total harvest due to some missing name/license numbers

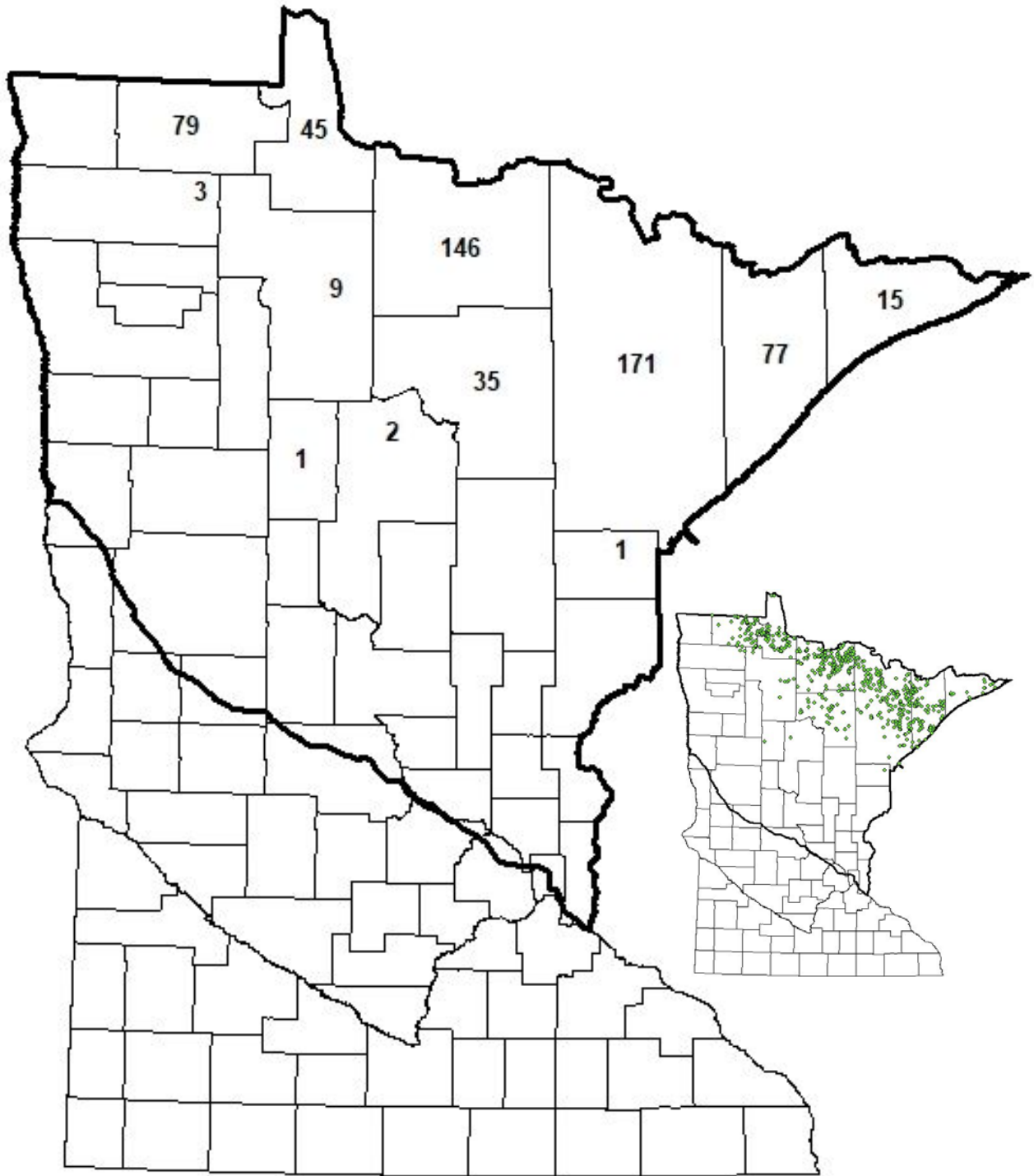


Figure 5. Marten harvest by county, 2019. Inset shows spatial distribution of harvest locations.

Table 11. Marten harvest by county and sex, 2019 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Female	Male	Unknown		
Aitkin	0	0		0	0.00
Becker	0	0		0	0.00
Beltrami	4	5		9	0.29
Carlton	0	1		1	0.11
Cass	1	1		2	0.08
Clearwater	0	0		0	0.00
Cook	6	9		15	0.93
Crow Wing	0	0		0	0.00
Hubbard	1	0		1	0.10
Itasca	9	26		35	1.20
Kanabec	0	0		0	0.00
Kittson	0	0		0	0.00
Koochiching	50	93	3	146	4.63
Lake	22	56		78	3.41
Lake of the Woods	12	33		45	2.53
Mahnomen	0	0		0	0.00
Marshall	1	2		3	0.17
Otter Tail	0	0		0	0.00
Pennington	0	0		0	0.00
Pine	0	0		0	0.00
Red Lake	0	0		0	0.00
Roseau	22	57		79	4.71
St. Louis	58	113		171	2.54
Unknown	0	0		0	
Total	186	396	3	585	

Table 12. Comparison of marten harvest by county in Minnesota, 2008-2019.

County	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Aitkin	12	5	4	13	10	8	12	4	1	7	2	0
Becker	0	0	0	0	0	0	0	1	0	0	0	0
Beltrami	6	10	2	11	20	15	7	15	7	16	2	9
Carlton	4	8	5	6	3	1	1	0	0	7	7	1
Cass	1	2	1	2	0	0	3	2	2	2	2	2
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0
Cook	151	244	191	205	148	78	43	39	23	40	44	15
Crow Wing	0	1	0	1	0	0	1	0	2	0	0	0
Hubbard	0	0	0	0	0	0	0	1	0	0	0	1
Itasca	72	91	73	118	46	62	79	64	28	52	35	35
Kanabec	0	0	0	0	0	0	0	0	0	0	0	0
Kittson	0	0	1	0	4	0	1	0	0	3	1	0
Koochiching	300	354	336	516	276	218	265	169	107	176	117	146
Lake	438	496	491	577	290	185	149	138	109	172	131	78
Lake of the Woods	17	17	13	49	32	18	23	25	21	32	16	45
Mahnomen	0	0	0	0	0	0	0	0	0	0	0	0
Marshall	0	4	0	3	3	5	5	3	1	1	1	3
Otter Tail	0	0	0	0	0	0	1	0	0	0	0	0
Pennington	0	0	0	0	0	0	0	1	0	0	0	0
Pine	0	0	1	0	0	0	1	0	0	0	0	0
Red Lake	0	0	0	0	1	1	0	0	0	0	0	0
Roseau	46	32	13	98	77	37	40	33	31	74	41	79
St. Louis	769	803	709	926	562	386	421	377	219	397	266	171
Unknown	7	6	2	0	0	0	7	5	0	0	0	0
Total	1,823	2,073	1,842	2,525	1,472	1,014	1,059	877	551	979	665	585

Table 13. Marten harvest by date and sex, 2019 season.

Date	Sex			Total	% of Known Total	Cumulative %
	Female	Male	Unknown			
Dec. 21	2	1		3	0.51	0.51
Dec. 22	35	68		103	17.61	18.12
Dec. 23	35	77	2	114	19.49	37.61
Dec. 24	28	70		98	16.75	54.36
Dec. 25	15	26		41	7.01	61.37
Dec. 26	25	33		58	9.91	71.28
Dec. 27	18	63	1	82	14.02	85.30
Dec. 28	20	38		58	9.91	95.21
Dec. 29	8	19		27	4.62	99.83
Unknown	0	1		1	0.17	100%
Total	186	396	3	585	100%	

Table 14. Distribution of marten harvest* among trappers, 1993-2019.

Number (%) of Takers	Number Taken					Total Takers	Ave. Take
	1	2	3	4	5		
1993	76 (10)	681 (90)	----	----	----	757	1.9
1994	165 (20)	681 (80)	----	----	----	846	1.8
1995	78 (10)	711 (90)	----	----	----	789	1.9
1996	157 (18)	734 (82)	----	----	----	891	1.8
1997	161 (13)	1050 (87)	----	----	----	1211	1.9
1998	187 (15)	1056 (85)	----	----	----	1243	1.8
1999	164 (17)	318 (34)	213 (23)	246 (26)	----	941	2.6
2000	188 (28)	190 (28)	123 (18)	173 (26)	----	674	2.4
2001	147 (23)	175 (27)	138 (21)	187 (29)	----	647	2.6
2002	149 (21)	138 (19)	147 (21)	123 (17)	160 (22)	717	1.9
2003	126 (15)	135 (16)	159 (19)	170 (20)	265 (31)	855	1.8
2004	165 (17)	153 (16)	171 (18)	164 (18)	282 (30)	935	1.8
2005	191 (22)	158 (18)	139 (16)	156 (18)	215 (25)	859	1.8
2006	206 (18)	201 (17)	226 (19)	203 (17)	335 (29)	1171	1.8
2007	176 (23)	160 (21)	147 (19)	141 (18)	142 (19)	766	2.0
2008	153 (24)	139 (22)	108 (17)	110 (17)	122 (19)	632	1.9
2009	121 (19)	105 (16)	106 (17)	134 (21)	173 (27)	639	1.9
2010	95 (17)	77 (14)	120 (22)	92 (17)	170 (31)	554	1.8
2011	154 (19)	131 (16)	179 (22)	166 (20)	181 (22)	811	2.0
2012	198 (33)	134 (22)	131 (22)	73 (12)	64 (11)	600	1.9
2013	341 (51)	332 (49)	----	----	----	673	1.5
2014	307 (45)	376 (55)	----	----	----	683	1.6
2015	247 (44)	309 (56)	----	----	----	556	1.6
2016	142 (41)	202 (59)	----	----	----	344	1.6
2017	233 (39)	365 (61)	----	----	----	598	1.6
2018	200 (46)	231 (54)	----	----	----	431	1.5
2019	200 (51)	191 (49)	----	----	----	391	1.5

* Product of categories above may not equal total harvest due to some unknown name/license numbers

Table 15. Number of trappers with different fisher/marten combinations, 2019. (Combined limit = 2)

Number of Takers		Number of Marten					
		0	1	2	3	4	5
Number of Fisher	0		113	191			
	1	173	86				
	2	102					
	3						
	4						
	5						
					Total takers of at least 1 fisher or marten	665	

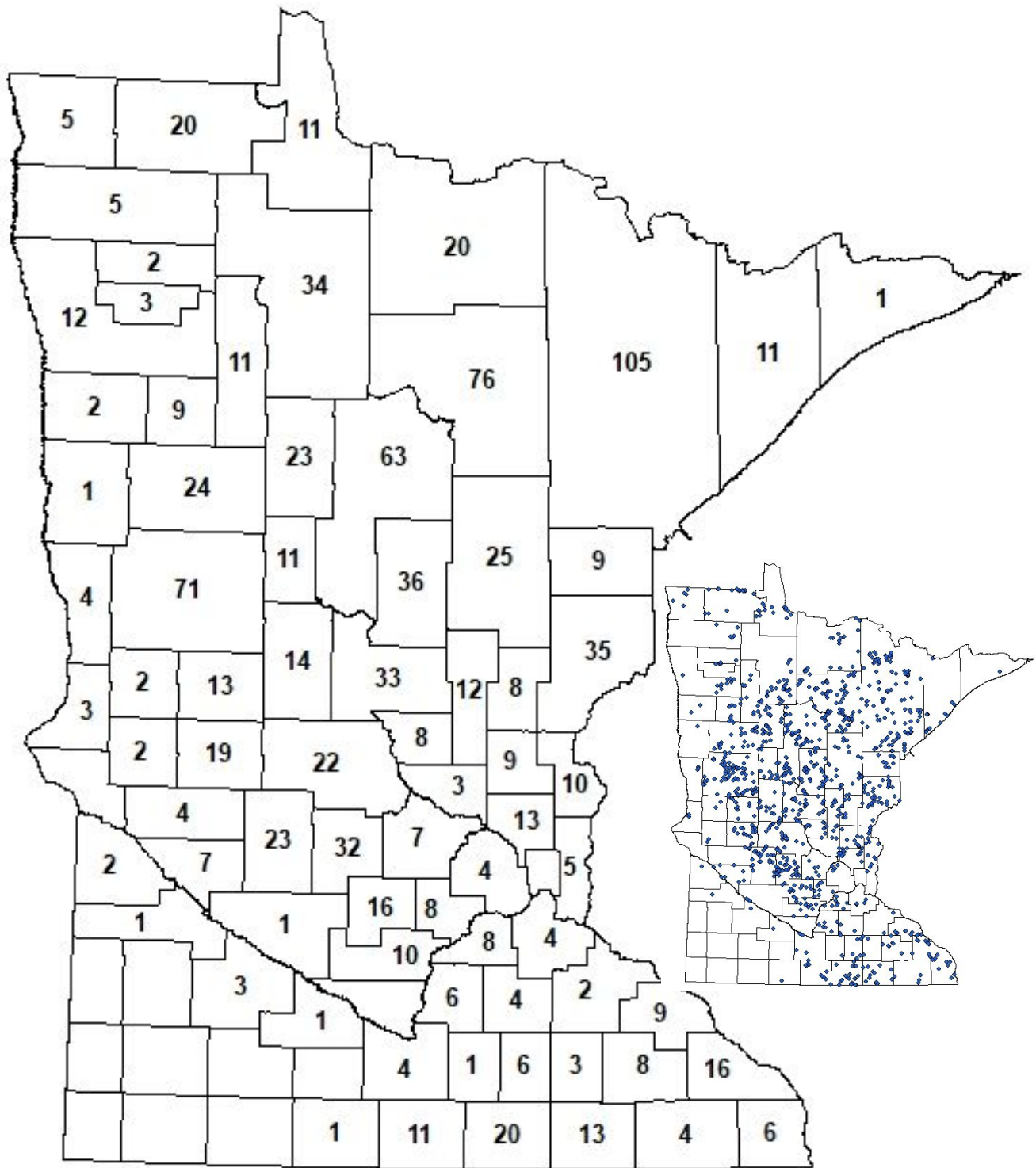


Figure 6. Otter harvest by county, 2019-20. Inset shows spatial distribution of harvest locations.

Table 16. Otter harvest by county and sex, 2019-20 season.

County	Sex			Total	Harvest / 100 Mile ²
	Female	Male	Unknown		
Aitkin	10	15		25	1.25
Anoka	8	5		13	2.92
Becker	13	11		24	1.66
Beltrami	14	20		34	1.11
Benton	4	4		8	1.94
Big Stone	0	0		0	0.00
Blue Earth	1	3		4	0.52
Brown	1	0		1	0.16
Carlton	3	6		9	1.03
Carver	4	4		8	2.13
Cass	30	33		63	2.61
Chippewa	2	5		7	1.19
Chisago	5	5		10	2.26
Clay	1	0		1	0.09
Clearwater	6	5		11	1.07
Cook	1	0		1	0.06
Cottonwood	0	0		0	0.00
Crow Wing	19	17		36	3.11
Dakota	1	3		4	0.68
Dodge	.	3		3	0.68
Douglas	6	7		13	1.80
Faribault	4	7		11	1.53
Fillmore	3	1		4	0.46
Freeborn	12	8		20	2.77
Goodhue	1	1		2	0.26
Grant	2	.		2	0.35
Hennepin	1	3		4	0.66
Houston	4	2		6	1.06
Hubbard	9	14		23	2.30
Isanti	4	5		9	1.99
Itasca	36	39	1	76	2.60
Jackson	0	0		0	0.00
Kanabec	4	4		8	1.50
Kandiyohi	9	14		23	2.67
Kittson	4	1		5	0.45
Koochiching	5	14	1	20	0.63
Lac Qui Parle	0	2		2	0.26
Lake	2	9		11	0.48
Lake of the Woods	7	4		11	0.62
Le Sueur	2	4		6	1.27
Lincoln	0	0		0	0.00
Lyon	0	0		0	0.00
Mahnomen	3	6		9	1.54
Marshall	2	3		5	0.28
Martin	1	.		1	0.14
McLeod	4	12		16	3.17
Meeker	13	19		32	4.97
Mille Lacs	7	5		12	1.76
Morrison	13	20		33	2.86
Mower	8	5		13	1.83
Murray	0	0		0	0.00
Nicollet	0	0		0	0.00
Nobles	0	0		0	0.00
Norman	1	1		2	0.23
Olmsted	6	2		8	1.22
Otter Tail	29	42		71	3.19

Table 16 (continued). Otter harvest by county and sex, 2019-20 season.

County	Sex			Total	Harvest / 100 Mile ²
	Female	Male	Unknown		
Pennington	1	1		2	0.32
Pine	17	18		35	2.44
Pipestone	0	0		0	0.00
Polk	6	6		12	0.60
Pope	8	11		19	2.65
Ramsey	0	0		0	0.00
Red Lake	1	2		3	0.69
Redwood	2	1		3	0.34
Renville	0	1		1	0.10
Rice	0	4		4	0.78
Rock	0	0		0	0.00
Roseau	10	10		20	1.19
Scott	4	3	1	8	2.17
Sherburne	2	1		3	0.67
Sibley	2	8		10	1.67
St. Louis	42	63		105	1.56
Stearns	9	13		22	1.58
Steele	3	3		6	1.39
Stevens	1	1		2	0.35
Swift	.	4		4	0.53
Todd	6	8		14	1.43
Traverse	2	1		3	0.51
Wabasha	3	6		9	1.64
Wadena	5	6		11	2.03
Waseca	1	0		1	0.23
Washington	1	4		5	1.18
Watonwan	0	0		0	0.00
Wilkin	2	2		4	0.53
Winona	7	9		16	2.50
Wright	2	5		7	0.98
Yellow Medicine	0	1		1	0.13
Unknown	0	0		0	
Total	462	585	3	1,050	

Table 17. Comparison of otter harvest by county, 2008-2019.

County	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Aitkin	65	54	59	107	111	90	67	74	61	33	34	25
Anoka	18	26	8	13	31	25	23	20	12	18	15	13
Becker	55	39	53	95	127	87	77	83	21	27	42	24
Beltrami	80	74	77	112	120	98	74	76	43	40	51	34
Benton	11	3	13	13	21	17	8	1	3	3	6	8
Big Stone	2	1	0	3	3	9	8	3	1	6	3	0
Blue Earth	0	0	0	2	3	1	2	1	3	3	2	4
Brown	0	0	0	0	0	0	0	2	2	0	0	1
Carlton	29	30	35	29	38	37	26	42	32	9	12	9
Carver	5	6	5	15	8	9	17	11	8	8	12	8
Cass	160	90	135	140	183	161	193	172	74	92	98	63
Chippewa	0	0	5	7	8	12	6	4	3	8	8	7
Chisago	15	18	23	19	24	32	26	20	12	18	12	10
Clay	14	7	23	42	23	16	14	18	10	10	11	1
Clearwater	35	19	38	41	46	47	23	38	21	33	21	11
Cook	12	16	19	36	55	57	28	9	4	0	4	1
Cottonwood	0	0	0	0	0	0	0	0	0	0	1	0
Crow Wing	99	76	66	107	117	96	83	59	35	41	55	36
Dakota	5	7	1	0	11	10	6	13	3	8	10	4
Dodge	0	0	3	1	1	3	4	2	0	3	2	3
Douglas	28	11	14	34	37	23	33	22	21	15	15	13
Faribault	0	0	0	1	12	3	1	3	5	9	3	11
Fillmore	1	1	5	5	10	6	13	3	3	4	1	4
Freeborn	0	0	5	10	10	1	7	6	2	11	7	20
Goodhue	3	7	11	7	18	2	2	11	4	9	0	2
Grant	3	6	1	8	12	6	13	4	3	5	2	2
Hennepin	3	6	2	3	4	5	6	3	2	2	9	4
Houston	15	11	11	10	26	22	14	9	2	8	10	6
Hubbard	72	41	52	42	67	61	36	32	26	39	30	23
Isanti	17	18	14	9	18	28	23	13	17	13	10	9
Itasca	201	191	247	281	346	345	184	159	67	84	123	76
Jackson	0	0	0	0	0	0	0	1	0	0	1	0
Kanabec	29	23	17	22	52	45	34	26	20	29	7	8
Kandiyohi	6	6	8	8	10	20	20	23	17	18	19	23
Kittson	2	3	8	2	9	7	4	0	8	8	5	5
Koochiching	95	61	81	62	127	115	55	68	19	16	13	20
Lac Qui Parle	0	0	2	6	15	6	1	7	0	8	0	2
Lake	34	45	28	36	66	67	45	26	23	12	13	11
Lake of the Woods	17	8	15	27	27	27	31	31	8	16	20	11

Table 17 (continued). Comparison of otter harvest by county, 2008-2019.

County	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Le Sueur	0	0	3	0	9	5	2	2	4	3	4	6
Lincoln	0	0	0	0	4	0	0	0	0	2	0	0
Lyon	0	0	0	0	0	0	0	0	0	1	0	0
Mahnomen	7	7	9	20	15	25	7	6	3	9	16	9
Marshall	2	0	13	13	15	15	4	9	12	15	10	5
Martin	0	0	0	0	1	0	0	1	1	1	1	1
McLeod	6	8	12	18	19	22	18	16	14	16	26	16
Meeker	13	16	12	28	19	32	35	23	11	26	29	32
Mille Lacs	26	28	19	15	30	39	28	16	13	26	14	12
Morrison	43	31	29	29	52	52	50	31	22	24	35	33
Mower	0	0	8	20	14	9	8	2	13	7	11	13
Murray	0	0	0	0	0	0	0	1	0	0	0	0
Nicollet	0	0	2	1	5	7	1	0	0	4	3	0
Nobles	0	0	0	0	0	0	4	0	0	0	0	0
Norman	17	11	12	21	45	27	19	13	9	8	5	2
Olmsted	2	3	2	3	0	7	7	5	3	5	4	8
Otter Tail	82	32	65	109	173	154	97	87	92	100	82	71
Pennington	0	1	4	2	12	5	8	8	11	2	7	2
Pine	74	37	38	44	66	98	59	86	48	20	36	35
Pipestone	0	0	0	0	0	0	0	0	1	1	0	0
Polk	25	19	36	49	83	71	47	37	20	12	14	12
Pope	12	12	11	20	22	14	19	8	19	8	14	19
Ramsey	0	0	0	0	3	1	1	1	0	0	0	0
Red Lake	8	20	22	19	26	11	10	14	13	1	3	3
Redwood	0	0	0	2	4	6	8	3	0	2	4	3
Renville	0	0	0	1	6	0	3	1	1	6	1	1
Rice	0	0	1	9	4	8	1	2	6	3	8	4
Rock	0	0	0	0	2	0	0	0	2	0	2	0
Roseau	53	23	32	33	64	48	44	23	24	22	20	20
Scott	3	1	4	2	4	3	2	4	5	4	7	8
Sherburne	10	17	7	19	12	9	10	10	11	8	9	3
Sibley	0	0	6	6	6	3	2	3	2	2	5	10
St. Louis	251	233	253	239	363	293	258	260	109	146	127	105
Stearns	38	24	13	41	53	53	41	50	45	28	34	22
Steele	0	0	1	0	3	1	0	1	3	3	4	6
Stevens	3	1	6	1	3	12	4	2	1	1	3	2
Swift	4	5	2	11	10	10	9	3	7	7	13	4
Todd	37	32	41	63	55	55	19	28	22	24	18	14
Traverse	0	2	0	1	4	1	0	3	7	4	11	3

Table 17 (continued). Comparison of otter harvest by county, 2008-2019.

County	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Wabasha	7	18	7	8	20	21	19	9	11	11	17	9
Wadena	19	15	16	20	43	30	30	19	5	8	8	11
Waseca	0	0	0	0	0	0	2	2	0	0	1	1
Washington	19	11	16	18	12	24	27	9	12	20	13	5
Watonwan	0	0	0	0	0	1	0	0	0	0	1	0
Wilkin	0	0	0	0	3	2	0	3	1	2	2	4
Winona	19	13	15	20	21	17	5	17	6	13	7	16
Wright	9	8	11	17	23	26	21	21	11	22	33	7
Yellow Medicine	0	0	0	0	7	9	0	3	0	2	2	1
Unknown	18	12	2	17	40	2	18	18	0	0	0	0
Totals	1,938	1,544	1,814	2,294	3,171	2,824	2,154	1,955	1,195	1,295	1,351	1,050

Table 18. Otter harvest by sex and week, 2019-20 season.

Date	Sex			Total Harvest	% of Total	Cumulative %
	Female	Male	Unknown			
Oct.26 - Nov.1	34	49		83	7.90	7.90
Nov.2 - Nov.8	105	119	1	225	21.43	29.33
Nov.9 - Nov.15	53	62	1	116	11.05	40.38
Nov.16 - Nov.22	46	76		122	11.62	52.00
Nov.23 - Nov.29	54	72		126	12.00	64.00
Nov.30 - Dec.6	40	44		84	8.00	72.00
Dec.7 - Dec.13	24	28		52	4.95	76.95
Dec.14 - Dec.20	17	19		36	3.43	80.38
Dec.21 - Dec.27	33	36		69	6.57	86.95
Dec.28 - Jan.3	25	30	1	56	5.33	92.29
Jan.4 - Jan.10	14	20		34	3.24	95.52
Jan.11 - Jan.17	7	14		21	2.00	97.52
Jan.18 - Jan.26*	8	12		20	1.90	99.43
Unknown	2	4		6	0.57	100.00
Total	462	585	3	1,050	100%	

* 9-day interval.

Table 19. Distribution of otter harvest* among trappers, 1993-2019.

Number (%) of Takers	Number Taken				Total Takers	Ave. Take
	1	2	3	4		
1993-94	193 (33)	115 (19)	100 (17)	184 (31)	592	2.5
1994-95	250 (27)	185 (20)	143 (15)	349 (38)	927	2.6
1995-96	183 (31)	134 (23)	88 (15)	180 (31)	585	2.5
1996-97	257 (29)	205 (23)	140 (16)	283 (32)	885	2.5
1997-98	304 (33)	235 (26)	117 (13)	255 (28)	911	2.4
1998-99	263 (32)	183 (23)	139 (17)	226 (28)	811	2.4
1999-00	222 (33)	124 (19)	99 (15)	217 (33)	662	2.5
2000-01	206 (32)	122 (19)	108 (17)	201 (32)	637	2.5
2001-02	147 (23)	175 (27)	138 (21)	187 (29)	647	2.6
2002-03	253 (33)	147 (19)	122 (16)	241 (32)	763	2.5
2003-04	269 (27)	201 (20)	152 (16)	361 (37)	983	2.6
2004-05	302 (25)	235 (19)	182 (15)	498 (41)	1217	2.7
2005-06	291 (27)	213 (20)	186 (17)	386 (36)	1076	2.6
2006-07	372 (34)	216 (19)	194 (17)	328 (30)	1110	2.4
2007-08	308 (39)	153 (19)	119 (15)	207 (26)	787	2.3
2008-09	293 (37)	157 (20)	121 (15)	216 (27)	787	2.3
2009-10	237 (38)	131 (21)	93 (15)	171 (27)	632	2.3
2010-11	263 (34)	166 (22)	130 (17)	206 (27)	765	2.4
2011-12	438 (42)	227 (22)	149 (14)	236 (22)	1050	2.2
2012-13	468 (35)	330 (24)	175 (13)	376 (28)	1349	2.3
2013-14	561 (43)	291 (22)	196 (15)	271 (21)	1319	2.1
2014-15	424 (42)	231 (23)	154 (15)	200 (20)	1009	2.1
2015-16	337 (39)	183 (21)	142 (16)	203 (23)	865	2.2
2016-17	270 (46)	135 (23)	80 (14)	101 (17)	586	2.0
2017-18	243 (41)	139 (23)	77 (13)	135 (23)	594	2.2
2018-19	276 (44)	134 (21)	78 (12)	142 (23)	630	2.1
2019-20	206 (42)	107 (22)	59 (12)	113 (23)	485	2.2

* Product of categories above may not equal total harvest due to some unknown name/license numbers