



REGISTERED FURBEARER HARVEST STATISTICS 2022-23

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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 monitoring the effects of changes in harvest seasons, harvest techniques, and habitat. The level of detail or accuracy necessary in harvest information varies across species, depending on factors such 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 45 years to help ensure sustainable harvests and populations.

METHODS

Hunters and trappers are required to bring pelts from harvested animals (fishers, martens, bobcats, and river 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 river otter harvest is allowed statewide (Figure 1). There were no changes to season structures for any of the four registered species this year compared to the 2021-22 season. Bobcat harvest decreased 32%, fisher harvest decreased 65% to the lowest level since seasons were re-established in 1977, marten harvest decreased 51% to the lowest level since seasons were re-established in 1985, and otter harvest decreased 26% (lowest since 1991). Detailed harvest summaries are provided in the following tables and graphs. Data for years prior to those presented in this report are 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 and entry of data contained in this report. This work was funded in part by the Wildlife Restoration Program (Pittman-Robertson).

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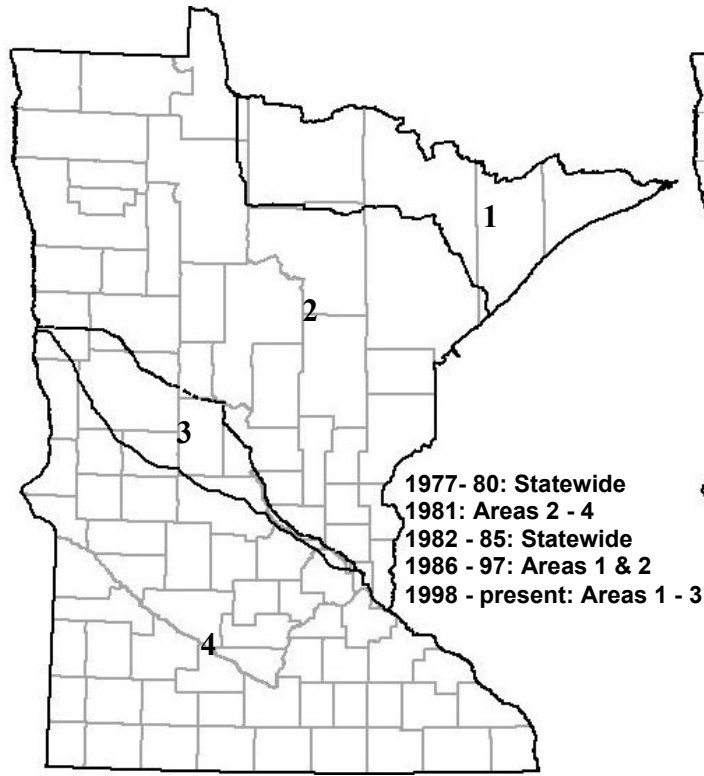
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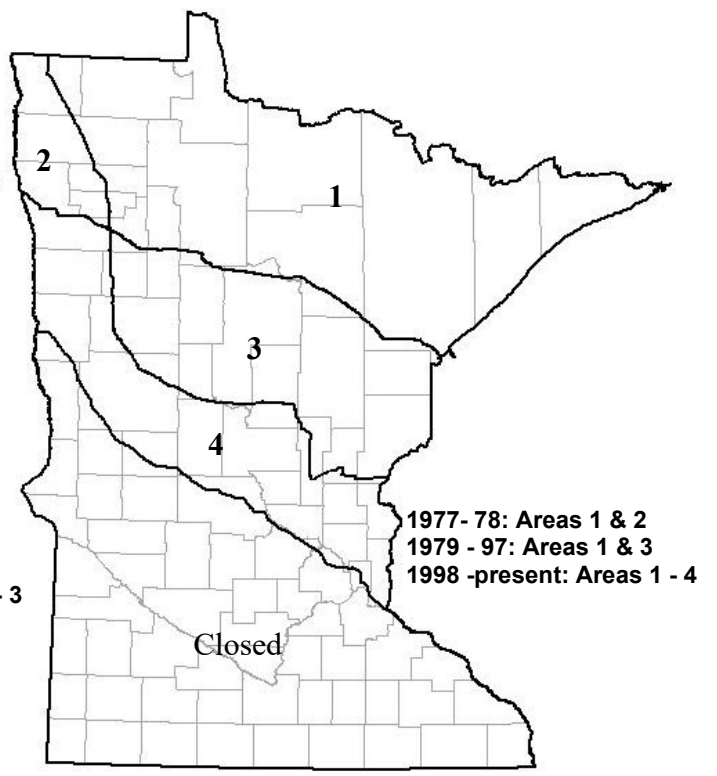
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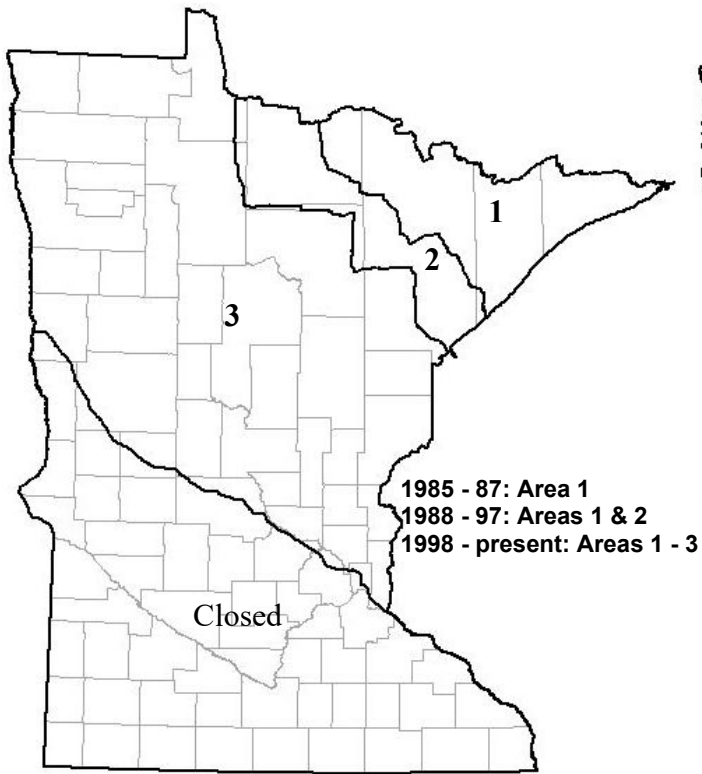
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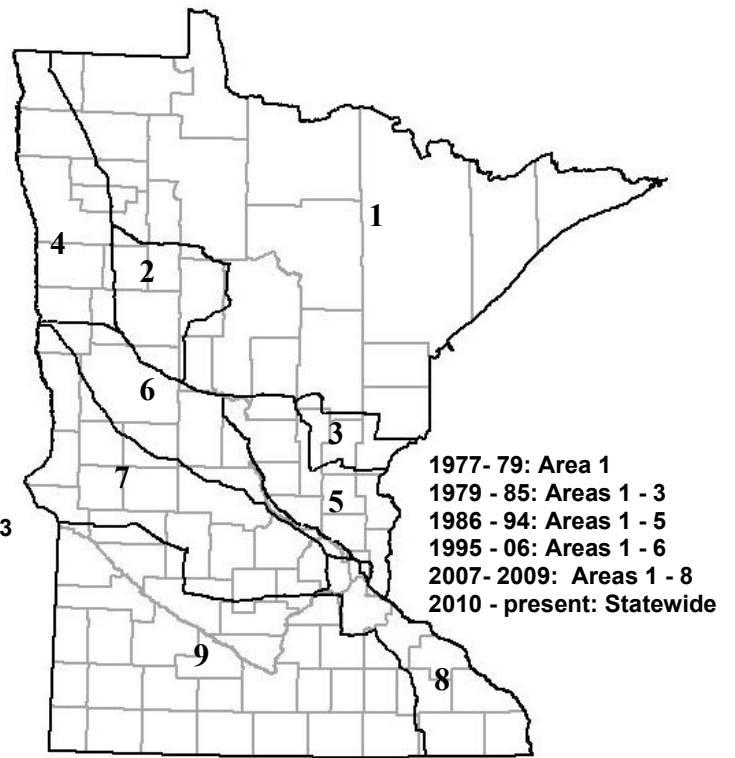
Bobcat



Fisher



Marten



Otter

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

Table 1. Registered furbearer seasons and harvests, 1992-2022.

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
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
2020-21	12/19-1/24	37	5	1325	12/19-12/27	9	2	712	12/19-12/27	9	2	765	10/24-1/24	99	4	1304
2021-22	12/18-1/23	37	5	724	12/18-12-26	9	2	577	12/18-12/26	9	2	434	10/23-1/23	99	4	1155
2022-23	12/17-1/22	37	5	489	12/17-12/25	9	2	200	12/17-12/25	9	2	211	10/29-1/22	92	4	855

^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 than the south zone. Otter season dates in this table reflect the start of the north zone.

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

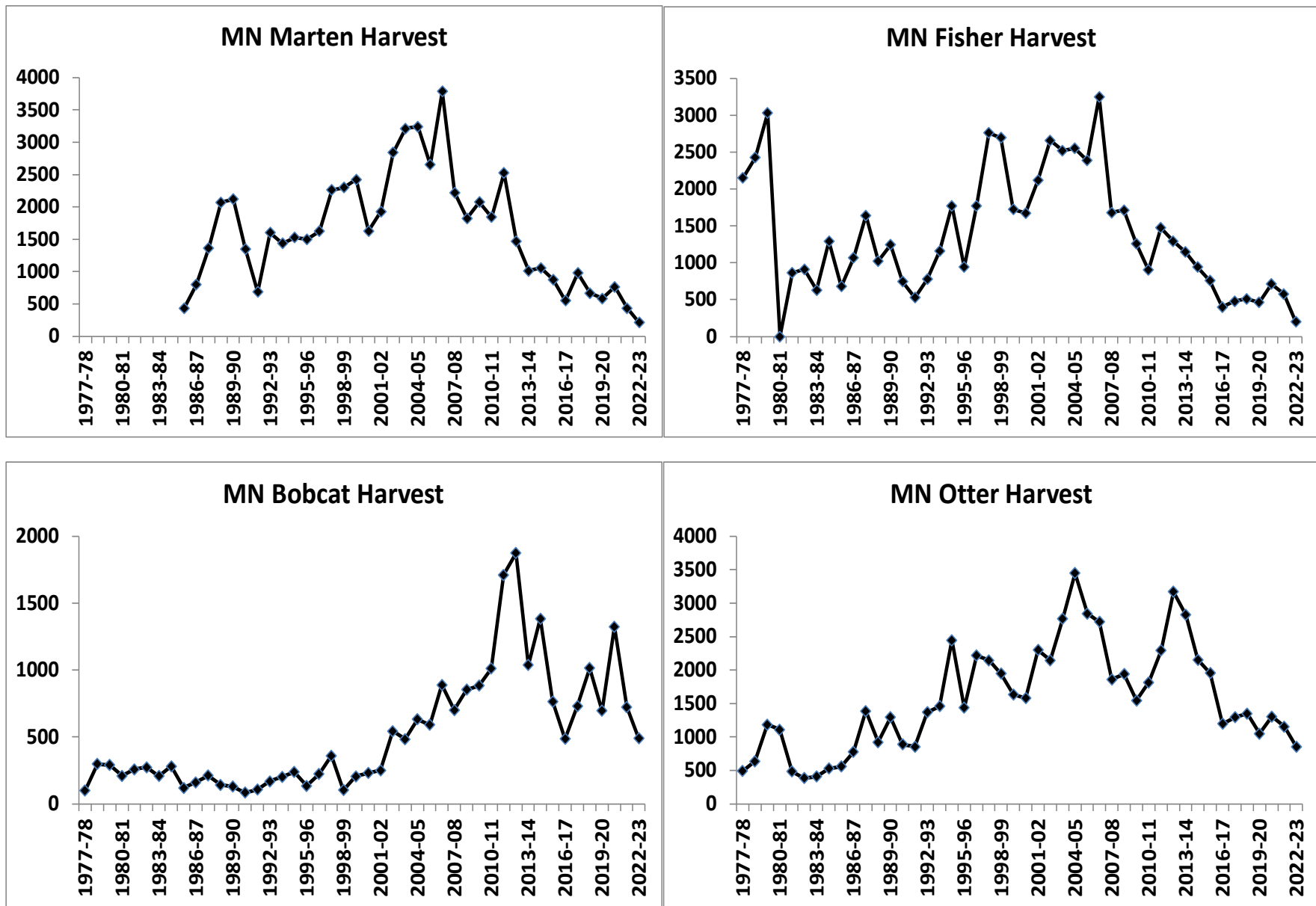


Figure 2. Harvest of registered furbearers in Minnesota, 1977-present.

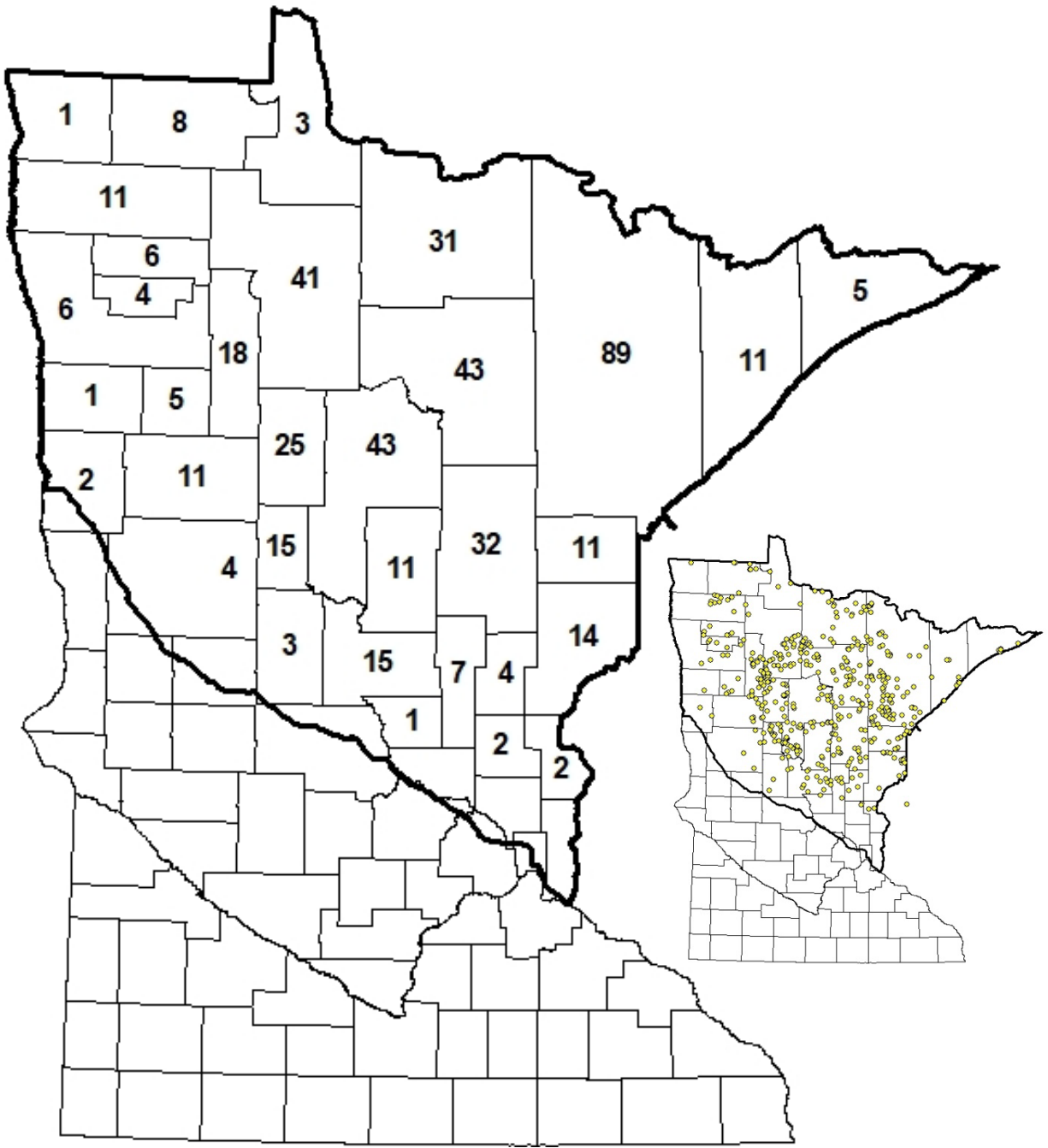


Figure 3. Bobcat harvest by county, 2021-22. Inset shows spatial distribution of harvest locations.

Table 2. Bobcat harvest by county and sex, 2022-23.

County	Sex*			Total	Harvest/ 100 Mile ²
	Female	Male	Unknown		
Aitkin	16	16		32	1.61
Anoka	0	0		0	0.00
Becker	4	7		11	0.76
Beltrami	24	17		41	1.34
Benton	0	1		1	0.24
Carlton	8	3		11	1.26
Cass	20	23		43	1.78
Chisago	1	1		2	0.45
Clay	0	2		2	0.19
Clearwater	10	8		18	1.75
Cook	4	1		5	0.31
Crow Wing	4	7		11	0.95
Douglas	16	9		25	3.47
Hubbard	0	0		0	0.00
Isanti	2	0		2	0.44
Itasca	33	10		43	1.47
Kanabec	2	2		4	0.75
Kittson	0	1		1	0.09
Koochiching	19	11	1	31	0.98
Lake	5	6		11	0.48
Lake of the Woods	3	0		3	0.17
Mahnomen	0	5		5	0.86
Marshall	7	4		11	0.61
Mille Lacs	4	3		7	1.03
Morrison	8	7		15	1.30
Norman	0	1		1	0.11
Otter Tail	2	2		4	0.18
Pennington	5	1		6	0.97
Pine	7	7		14	0.98
Polk	5	1		6	0.30
Red Lake	1	3		4	0.92
Roseau	5	3		8	0.48
Sherburne	0	0		0	0.00
St. Louis	59	30		89	1.32
Stearns	0	0		0	0.00
Todd	1	2		3	0.31
Wadena	6	9		15	2.76
Unknown	0	4		4	
Total	281	207	1	489	

* 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, 2012-2022.

County	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Aitkin	142	65	105	39	22	41	51	55	109	59	32
Anoka	0	0	1	0	0	0	0	0	0	0	0
Becker	58	36	48	36	10	31	22	14	32	9	11
Beltrami	139	59	73	49	30	37	60	34	94	52	41
Benton	3	3	0	0	1	2	3	1	2	0	1
Carlton	63	42	88	25	16	33	42	27	68	47	11
Cass	150	76	126	73	44	72	91	52	113	53	43
Chisago	3	1	1	3	4	2	5	3	4	1	2
Clay	3	2	3	1	0	0	2	0	1	2	2
Clearwater	40	19	29	15	13	14	18	14	41	18	18
Cook	3	9	17	1	0	2	0	2	4	2	5
Crow Wing	65	19	32	21	7	24	28	15	38	24	11
Douglas	1	1	0	0	0	0	1	0	0	0	25
Hubbard	105	51	50	45	21	44	41	19	66	28	0
Isanti	0	1	0	1	1	0	0	0	1	1	2
Itasca	194	93	110	50	19	54	86	57	114	52	43
Kanabec	46	16	46	12	11	16	24	12	18	9	4
Kittson	7	5	5	7	6	3	3	10	8	3	1
Koochiching	82	50	40	22	25	26	62	24	47	38	31
Lake	21	13	15	8	4	8	24	8	21	9	11
Lake of the Woods	13	20	26	10	7	5	14	13	14	11	3
Mahnomen	7	4	4	3	5	2	4	2	10	0	5
Marshall	44	15	21	19	14	12	30	25	13	9	11
Mille Lacs	23	7	14	5	2	10	19	8	21	10	7
Morrison	35	15	25	16	17	19	37	22	28	14	15
Norman	6	3	8	4	1	4	7	2	4	5	1
Otter Tail	38	18	17	16	15	22	12	6	21	13	4
Pennington	13	7	3	4	1	4	8	7	6	6	6
Pine	135	54	87	56	37	43	46	47	62	81	14
Polk	20	10	16	15	10	9	5	3	14	15	6
Red Lake	25	6	11	3	1	15	10	10	25	5	4
Roseau	60	38	27	20	23	23	45	20	21	25	8
Sherburne	0	0	0	0	0	0	0	1	0	1	0
St. Louis	283	255	307	156	91	123	182	154	275	106	89
Stearns	0	2	0	1	0	0	0	0	0	0	0
Todd	16	5	8	8	9	13	10	7	7	2	3
Wadena	23	18	18	10	18	18	23	21	23	14	15
Unknown	9	0	3	12	0	0	0	0	0	0	4
Total	1875	1038	1384	766	485	731	1015	695	1325	724	489

Table 4. Bobcat harvest by sex and week, 2022-23 season.

Date	Sex*			Total	% of Total	Cumulative %
	Female	Male	Unknown			
Dec.17 - Dec.23	51	39		90	18.40	18.40
Dec.24 - Dec.30	52	37		89	18.20	36.61
Dec.31 - Jan.6	61	37		98	20.04	56.65
Jan.7 - Jan.13	42	34	1	77	15.75	72.39
Jan.14 - Jan.22**	68	50		118	24.13	96.52
Unknown	7	10		17	3.48	100.00
Total	281	207	1	489	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, 1997-2022.

Number (%) of Takers	Number Taken					Total Takers
	1	2	3	4	5	
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
2020-21	319 (50)	138 (22)	67 (11)	35 (6)	76 (12)	635
2021-22	215 (57)	71 (19)	41 (11)	24 (6)	29 (8)	380
2022-23	126 (58)	43 (20)	25 (11)	16 (7)	8 (4)	218

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

Table 6. Bobcat harvest by method of take, 1995-2022.

Year	Total Harvest ^a	Trapping				Hunting					
		Harvest	% of Total	# Takers	Ave. Take	% Males ^b	Harvest	% of Total	# Takers	Ave. Take	% Males ^b
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
2020-21	1325	1124	85	512	2.2	43	201	15	126	1.6	56
2021-22	724	580	80	305	1.9	42	144	20	82	1.8	67
2022-23	489	391	80	218	1.8	38	98	20	62	1.6	60

^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

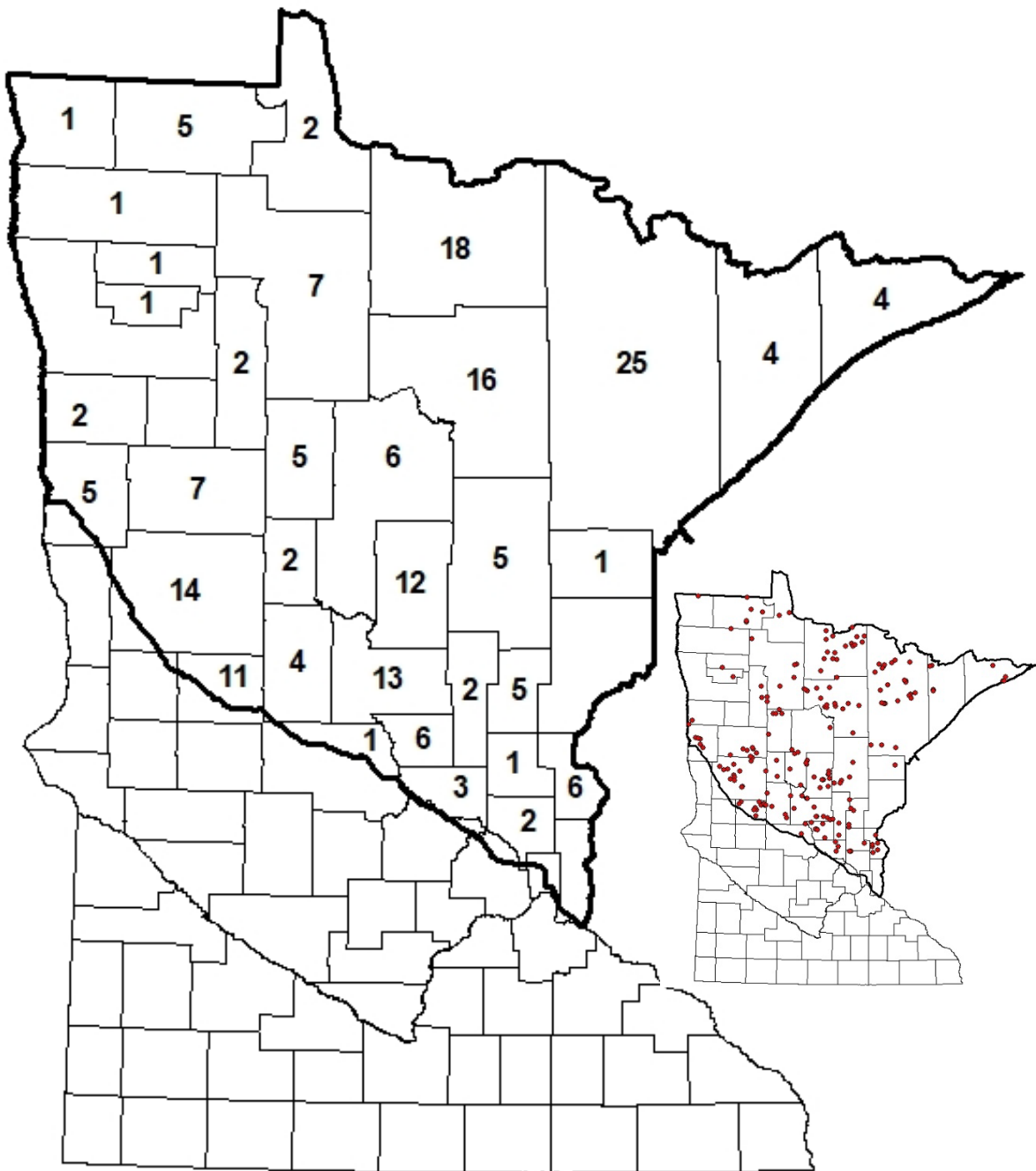


Figure 4. Fisher harvest by county, 2022. Inset shows spatial distribution of harvest locations.

Table 7. Fisher harvest by county and sex, 2022 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Female	Male	Unknown		
Aitkin	1	4		5	0.25
Anoka	1	1		2	0.45
Becker	4	3		7	0.48
Beltrami	1	6		7	0.23
Benton	3	3		6	1.45
Carlton	0	1		1	0.11
Cass	1	5		6	0.25
Chisago	1	5		6	1.36
Clay	4	1		5	0.47
Clearwater	1	1		2	0.19
Cook	3	1		4	0.25
Crow Wing	4	8		12	1.04
Douglas	4	7		11	1.53
Grant	0	0		0	0.00
Hubbard	3	2		5	0.50
Isanti	0	1		1	0.22
Itasca	8	7	1	16	0.55
Kanabec	1	4		5	0.94
Kittson	1	0		1	0.09
Koochiching	7	11		18	0.57
Lake	4	0		4	0.17
Lake of the Woods	1	1		2	0.11
Mahnomen	0	0		0	0.00
Marshall	1	0		1	0.06
Mille Lacs	2	0		2	0.29
Morrison	5	8		13	1.13
Norman	1	1		2	0.23
Otter Tail	4	10		14	0.63
Pennington	1	0		1	0.16
Pine	0	0		0	0.00
Polk	0	0		0	0.00
Red Lake	0	1		1	0.23
Roseau	3	2		5	0.30
Sherburne	1	2		3	0.67
St. Louis	11	14		25	0.37
Stearns	0	1		1	0.07
Todd	2	2		4	0.41
Wadena	2	0		2	0.37
Washington	0	0		0	0.00
Wilkin	0	0		0	0.00
Unknown	0	0		0	
Total	86	113	1	200	

Table 8. Comparison of fisher harvest by county, 2011-2022.

County	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Aitkin	55	52	47	24	38	16	10	15	17	24	25	5
Anoka	1	2	1	2	7	4	0	4	3	6	5	2
Becker	32	45	38	21	23	3	18	10	11	21	18	7
Beltrami	25	21	17	4	8	9	6	6	15	24	17	7
Benton	5	5	2	4	3	7	4	7	8	5	8	6
Carlton	12	14	8	14	13	6	1	9	8	10	6	1
Cass	41	37	23	30	24	11	12	16	10	29	19	6
Chisago	10	3	4	16	18	11	8	23	12	11	13	6
Clay	10	6	5	6	4	4	2	8	4	5	5	5
Clearwater	8	5	12	3	2	3	0	7	3	9	4	2
Cook	28	11	13	11	5	4	3	8	4	8	5	4
Crow Wing	64	55	51	34	31	13	17	17	19	39	33	12
Douglas	15	24	8	20	12	6	2	8	9	14	10	11
Grant	0	0	0	0	0	0	0	0	0	0	0	0
Hubbard	10	11	10	8	6	5	6	8	4	10	7	5
Isanti	4	6	11	11	12	3	13	6	1	8	12	1
Itasca	142	105	116	78	47	13	34	30	31	44	35	16
Kanabec	21	27	30	9	10	6	2	6	7	11	9	5
Kittson	5	9	11	2	3	5	7	6	8	4	3	1
Koochiching	116	80	51	67	45	23	40	31	42	40	25	18
Lake	56	53	35	28	14	14	12	16	10	15	16	4
Lake of the Woods	33	21	13	12	15	6	9	3	3	1	6	2
Mahnomen	3	0	4	2	0	0	0	0	0	4	1	0
Marshall	13	14	17	22	22	6	5	12	7	12	5	1
Mille Lacs	17	20	17	12	6	13	7	8	3	13	5	2
Morrison	10	24	25	23	15	16	11	25	15	41	28	13
Norman	10	19	21	12	5	9	3	6	8	14	6	2
Otter Tail	138	121	117	102	77	41	53	59	43	105	67	14
Pennington	8	8	11	19	11	4	9	10	7	6	3	1
Pine	22	42	46	44	35	18	17	7	10	27	28	0
Polk	54	58	45	32	22	11	9	11	3	12	13	0
Red Lake	17	16	24	18	6	8	18	14	5	6	11	1
Roseau	79	61	42	32	26	15	24	18	29	23	17	5
Sherburne	6	2	2	2	2	0	0	6	0	5	2	3
St. Louis	350	233	220	171	125	61	72	66	73	58	77	25
Stearns	4	1	4	2	3	3	5	2	2	8	11	1
Todd	15	29	22	15	19	12	20	7	12	15	9	4
Wadena	31	25	23	21	26	9	17	11	16	25	10	2
Washington	1	1	0	2	2	1	1	4	1	0	1	0
Wilkin	1	0	0	0	0	0	0	0	0	0	0	0
Unknown	1	27	0	8	14	0	0	0	0	0	2	0
Total	1,473	1,293	1,146	943	756	399	477	510	463	712	577	200

Table 9. Fisher harvest by date and sex, 2022 season.

Date	Sex			Total	% of Known Total	Cumulative %
	Female	Male	Unknown			
Dec. 17	1	0		1	0.50	0.50
Dec. 18	10	16		26	13.00	13.50
Dec. 19	14	22	1	37	18.50	32.00
Dec. 20	22	22		44	22.00	54.00
Dec. 21	13	12		25	12.50	66.50
Dec. 22	2	10		12	6.00	72.50
Dec. 23	11	12		23	11.50	84.00
Dec. 24	5	8		13	6.50	90.50
Dec. 25	7	8		15	7.50	98.00
Unknown	1	3		4	2.00	100%
Total	86	113	1	200	100%	

Table 10. Distribution of fisher harvest* among trappers, 1996-2022.

Number (%) of Takers	Number Taken					Total Takers	Ave. Take
	1	2	3	4	5		
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
2020	337 (65)	185 (35)	----	----	----	522	1.4
2021	279 (65)	148 (35)	----	----	----	427	1.3
2022	116 (73)	42 (27)	----	----	----	158	1.3

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

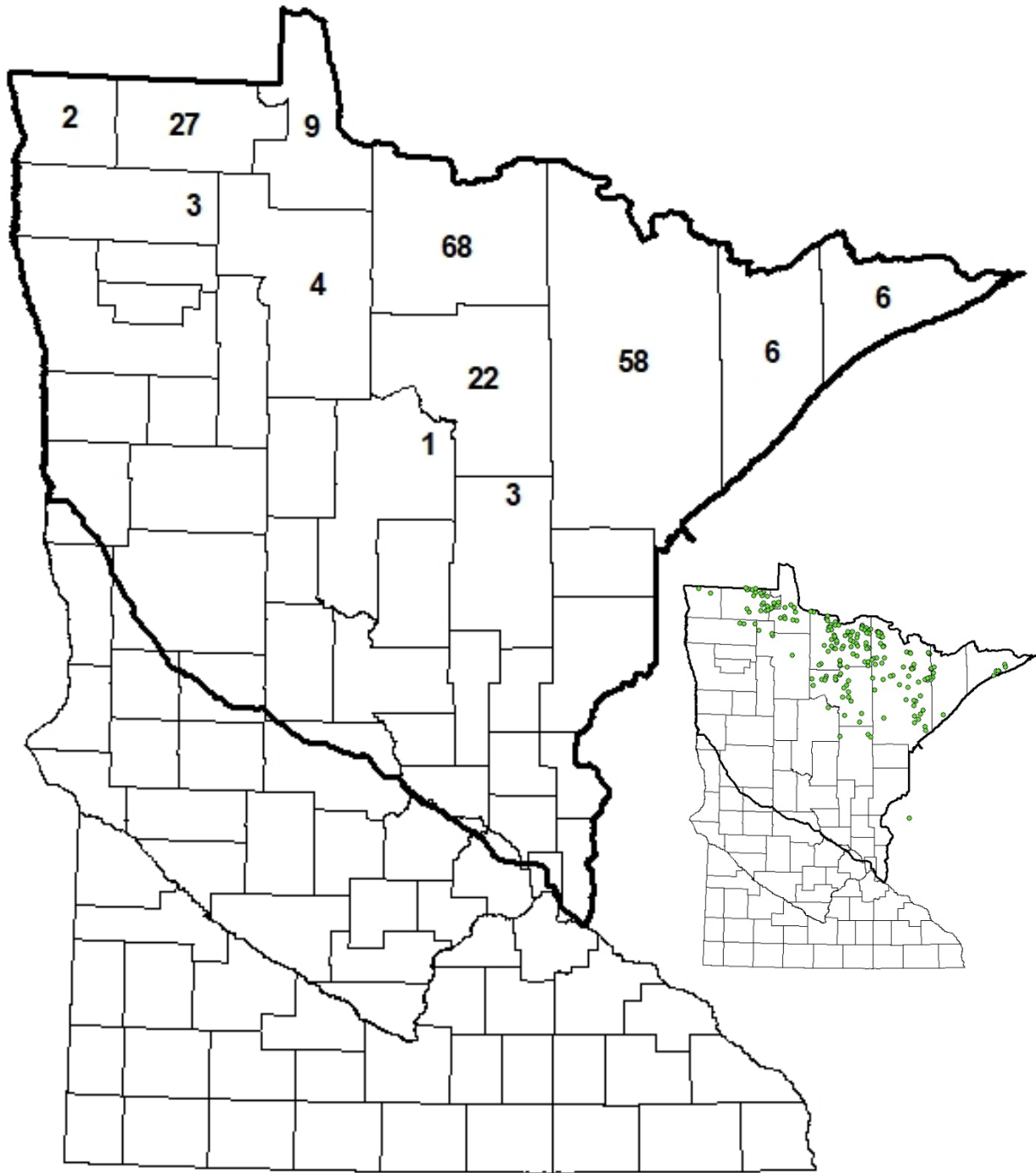


Figure 5. Marten harvest by county, 2022. Inset shows spatial distribution of harvest locations.

Table 11. Marten harvest by county and sex, 2022 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Female	Male	Unknown		
Aitkin	1	2		3	0.15
Becker	0	0		0	0.00
Beltrami	1	3		4	0.13
Carlton	0	0		0	0.00
Cass	0	1		1	0.04
Clearwater	0	0		0	0.00
Cook	1	5		6	0.37
Crow Wing	0	0		0	0.00
Hubbard	0	0		0	0.00
Itasca	5	16	1	22	0.75
Kanabec	0	0		0	0.00
Kittson	1	1		2	0.18
Koochiching	36	32		68	2.16
Lake	0	6		6	0.26
Lake of the Woods	3	6		9	0.51
Mahnomen	0	0		0	0.00
Marshall	2	1		3	0.17
Otter Tail	0	0		0	0.00
Pennington	0	0		0	0.00
Pine	0	0		0	0.00
Polk	0	0		0	0.00
Red Lake	0	0		0	0.00
Roseau	11	15	1	27	1.61
St. Louis	18	40		58	0.86
Unknown	2	0	0	2	
Total	81	128	2	211	

Table 12. Comparison of marten harvest by county in Minnesota, 2011-2022.

County	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Aitkin	13	10	8	12	4	1	7	2	0	5	3	3
Becker	0	0	0	0	1	0	0	0	0	0	0	0
Beltrami	11	20	15	7	15	7	16	2	9	40	23	4
Carlton	6	3	1	1	0	0	7	7	1	1	3	0
Cass	2	0	0	3	2	2	2	2	2	1	0	1
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0
Cook	205	148	78	43	39	23	40	44	15	22	30	6
Crow Wing	1	0	0	1	0	2	0	0	0	0	0	0
Hubbard	0	0	0	0	1	0	0	0	1	0	0	0
Itasca	118	46	62	79	64	28	52	35	35	66	31	22
Kanabec	0	0	0	0	0	0	0	0	0	0	0	0
Kittson	0	4	0	1	0	0	3	1	0	1	0	2
Koochiching	516	276	218	265	169	107	176	117	146	155	88	68
Lake	577	290	185	149	138	109	172	131	78	99	47	6
Lake of the Woods	49	32	18	23	25	21	32	16	45	28	9	9
Mahnomen	0	0	0	0	0	0	0	0	0	0	0	0
Marshall	3	3	5	5	3	1	1	1	3	2	1	3
Otter Tail	0	0	0	1	0	0	0	0	0	0	0	0
Pennington	0	0	0	0	1	0	0	0	0	0	1	0
Pine	0	0	0	1	0	0	0	0	0	0	0	0
Polk	0	0	0	0	0	0	0	0	0	1	0	0
Red Lake	0	1	1	0	0	0	0	0	0	0	0	0
Roseau	98	77	37	40	33	31	74	41	79	84	29	27
St. Louis	926	562	386	421	377	219	397	266	171	260	168	58
Unknown	0	0	0	7	5	0	0	0	0	0	1	2
Total	2,525	1,472	1,014	1,059	877	551	979	665	585	765	434	211

Table 13. Marten harvest by date and sex, 2022 season.

Date	Sex			Total	% of Known	Cumulative
	Female	Male	Unknown		Total	%
Dec. 17	0	2		2	0.95	0.95
Dec. 18	20	25		45	21.33	22.27
Dec. 19	10	33		43	20.38	42.65
Dec. 20	15	14	1	30	14.22	56.87
Dec. 21	10	8		18	8.53	65.40
Dec. 22	8	11	1	20	9.48	74.88
Dec. 23	6	11		17	8.06	82.94
Dec. 24	6	8		14	6.64	89.57
Dec. 25	4	14		18	8.53	98.10
Unknown	2	2		4	1.90	100%
Total	81	128	2	211	100%	

Table 14. Distribution of marten harvest* among trappers, 1996-2022.

Number (%) of Takers	Number Taken					Total Takers	Ave. Take
	1	2	3	4	5		
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
2020	221 (45)	268 (55)	----	----	----	489	1.5
2021	162 (54)	136 (46)	----	----	----	298	1.5
2022	96 (63)	57 (37)	----	----	----	153	1.4

* 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, 2022. (Combined limit = 2)

Number of Takers		Number of Marten					
		0	1	2	3	4	5
Number of Fisher	0		60	57			
	1	79	37				
	2	42					
	3						
	4						
	5						
					Total takers of at least 1 fisher or marten	275	

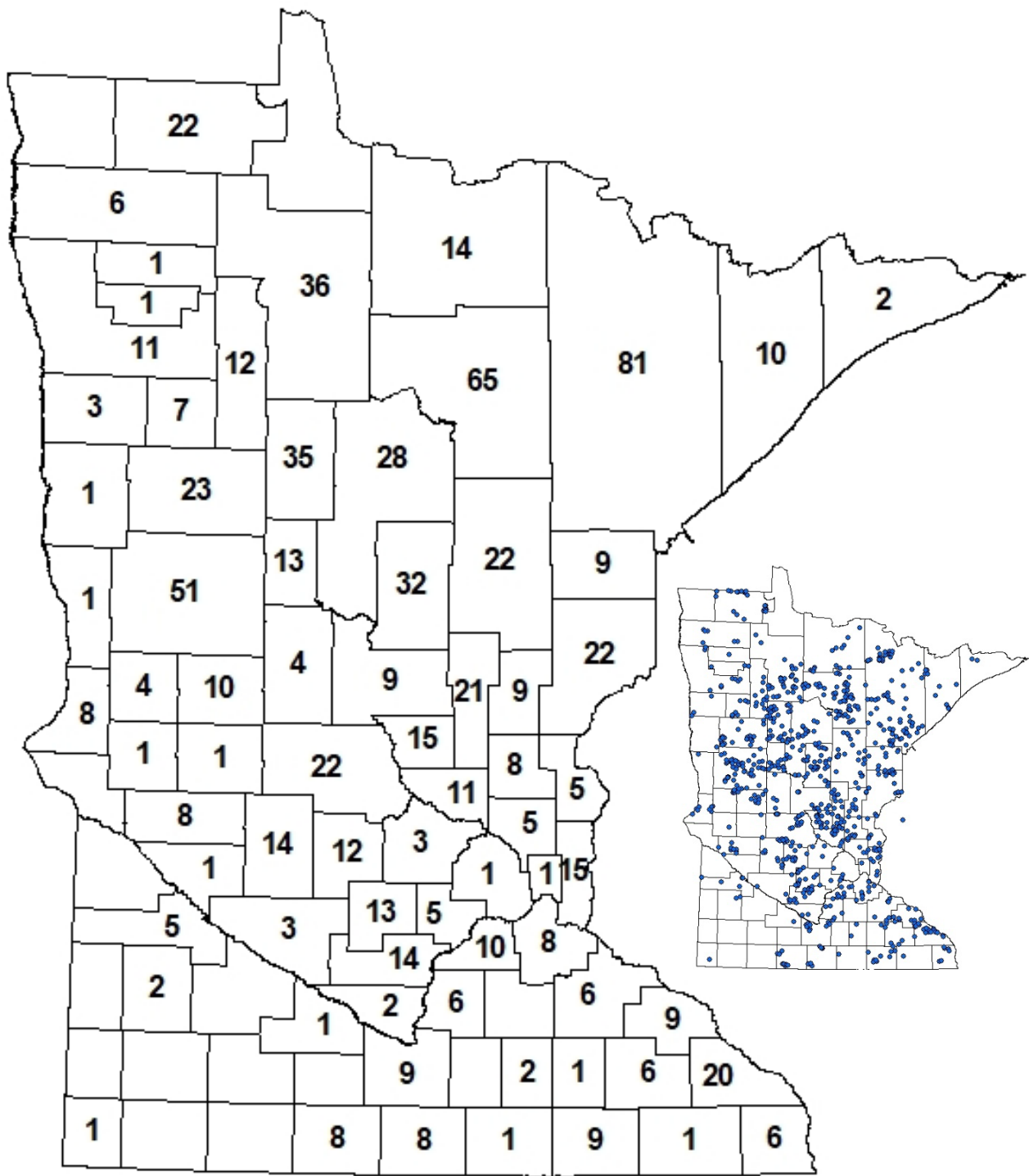


Figure 6. Otter harvest by county, 2022-23. Inset shows spatial distribution of harvest locations.

Table 16. Otter harvest by county and sex, 2022-23 season.

County	Sex			Total	Harvest / 100 Mile ²
	Female	Male	Unknown		
Aitkin	11	11		22	1.10
Anoka	2	3		5	1.12
Becker	7	16		23	1.59
Beltrami	12	24		36	1.18
Benton	7	8		15	3.63
Big Stone	0	0		0	0.00
Blue Earth	4	5		9	1.18
Brown	0	1		1	0.16
Carlton	3	6		9	1.03
Carver	2	3		5	1.33
Cass	8	20		28	1.16
Chippewa	1	0		1	0.17
Chisago	4	1		5	1.13
Clay	0	1		1	0.09
Clearwater	2	10		12	1.17
Cook	0	2		2	0.12
Cottonwood	0	0		0	0.00
Crow Wing	14	18		32	2.77
Dakota	3	5		8	1.37
Dodge	1	0		1	0.23
Douglas	2	8		10	1.39
Faribault	3	5		8	1.11
Fillmore	0	1		1	0.12
Freeborn	0	1		1	0.14
Goodhue	2	4		6	0.77
Grant	2	2		4	0.69
Hennepin	0	1		1	0.16
Houston	2	4		6	1.06
Hubbard	16	19		35	3.50
Isanti	3	5		8	1.77
Itasca	33	32		65	2.22
Jackson	0	0		0	0.00
Kanabec	3	6		9	1.69
Kandiyohi	7	7		14	1.62
Kittson	0	0		0	0.00
Koochiching	8	6		14	0.44
Lac Qui Parle	0	0		0	0.00
Lake	4	6		10	0.44
Lake of the Woods	0	0		0	0.00
Le Sueur	3	3		6	1.27
Lincoln	0	0		0	0.00
Lyon	1	1		2	0.28
Mahnomen	4	3		7	1.20
Marshall	1	5		6	0.33
Martin	2	6		8	1.10
McLeod	6	7		13	2.57
Meeker	9	3		12	1.86
Mille Lacs	9	12		21	3.08
Morrison	3	6		9	0.78
Mower	4	5		9	1.27
Murray	0	0		0	0.00
Nicollet	1	1		2	0.43
Nobles	0	0		0	0.00
Norman	2	1		3	0.34
Olmsted	2	4		6	0.92
Otter Tail	20	30	1	51	2.29

Table 16 (continued). Otter harvest by county and sex, 2022-23 season.

County	Sex			Total	Harvest / 100 Mile ²
	Female	Male	Unknown		
Pennington	1	0		1	0.16
Pine	8	14		22	1.54
Pipestone	0	0		0	0.00
Polk	1	10		11	0.55
Pope	0	1		1	0.14
Ramsey	0	1		1	0.59
Red Lake	0	1		1	0.23
Redwood	0	0		0	0.00
Renville	1	2		3	0.30
Rice	0	0		0	0.00
Rock	0	1		1	0.21
Roseau	9	13		22	1.31
Scott	3	7		10	2.72
Sherburne	3	8		11	2.44
Sibley	7	7		14	2.33
St. Louis	36	44	1	81	1.20
Stearns	4	18		22	1.58
Steele	1	1		2	0.46
Stevens	0	1		1	0.17
Swift	3	5		8	1.06
Todd	3	1		4	0.41
Traverse	7	1		8	1.36
Wabasha	4	5		9	1.64
Wadena	3	10		13	2.39
Waseca	0	0		0	0.00
Washington	9	6		15	3.54
Watonwan	0	0		0	0.00
Wilkin	0	1		1	0.13
Winona	9	11		20	3.12
Wright	1	2		3	0.42
Yellow Medicine	2	3		5	0.65
Unknown	1	2		3	
Total	349	504	2	855	

Table 17. Comparison of otter harvest by county, 2011-2022.

County	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Aitkin	107	111	90	67	74	61	33	34	25	22	39	22
Anoka	13	31	25	23	20	12	18	15	13	9	13	5
Becker	95	127	87	77	83	21	27	42	24	19	22	23
Beltrami	112	120	98	74	76	43	40	51	34	67	48	36
Benton	13	21	17	8	1	3	3	6	8	3	8	15
Big Stone	3	3	9	8	3	1	6	3	0	10	1	0
Blue Earth	2	3	1	2	1	3	3	2	4	8	2	9
Brown	0	0	0	0	2	2	0	0	1	0	0	1
Carlton	29	38	37	26	42	32	9	12	9	18	14	9
Carver	15	8	9	17	11	8	8	12	8	3	4	5
Cass	140	183	161	193	172	74	92	98	63	56	62	28
Chippewa	7	8	12	6	4	3	8	8	7	6	6	1
Chisago	19	24	32	26	20	12	18	12	10	20	19	5
Clay	42	23	16	14	18	10	10	11	1	3	1	1
Clearwater	41	46	47	23	38	21	33	21	11	12	6	12
Cook	36	55	57	28	9	4	0	4	1	1	3	2
Cottonwood	0	0	0	0	0	0	0	1	0	0	0	0
Crow Wing	107	117	96	83	59	35	41	55	36	52	47	32
Dakota	0	11	10	6	13	3	8	10	4	6	2	8
Dodge	1	1	3	4	2	0	3	2	3	6	0	1
Douglas	34	37	23	33	22	21	15	15	13	18	17	10
Faribault	1	12	3	1	3	5	9	3	11	10	17	8
Fillmore	5	10	6	13	3	3	4	1	4	8	1	1
Freeborn	10	10	1	7	6	2	11	7	20	10	3	1
Goodhue	7	18	2	2	11	4	9	0	2	7	7	6
Grant	8	12	6	13	4	3	5	2	2	7	4	4
Hennepin	3	4	5	6	3	2	2	9	4	7	0	1
Houston	10	26	22	14	9	2	8	10	6	14	4	6
Hubbard	42	67	61	36	32	26	39	30	23	31	23	35
Isanti	9	18	28	23	13	17	13	10	9	14	17	8
Itasca	281	346	345	184	159	67	84	123	76	79	79	65
Jackson	0	0	0	0	1	0	0	1	0	0	0	0
Kanabec	22	52	45	34	26	20	29	7	8	20	13	9
Kandiyohi	8	10	20	20	23	17	18	19	23	17	35	14
Kittson	2	9	7	4	0	8	8	5	5	2	0	0
Koochiching	62	127	115	55	68	19	16	13	20	12	16	14
Lac Qui Parle	6	15	6	1	7	0	8	0	2	10	2	0
Lake	36	66	67	45	26	23	12	13	11	22	6	10
Lake of the Woods	27	27	27	31	31	8	16	20	11	9	8	0

Table 17 (continued). Comparison of otter harvest by county, 2011-2022.

County	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Le Sueur	0	9	5	2	2	4	3	4	6	3	4	6
Lincoln	0	4	0	0	0	0	2	0	0	1	3	0
Lyon	0	0	0	0	0	0	1	0	0	4	3	2
Mahnomen	20	15	25	7	6	3	9	16	9	12	9	7
Marshall	13	15	15	4	9	12	15	10	5	7	10	6
Martin	0	1	0	0	1	1	1	1	1	1	0	8
McLeod	18	19	22	18	16	14	16	26	16	25	13	13
Meeker	28	19	32	35	23	11	26	29	32	18	16	12
Mille Lacs	15	30	39	28	16	13	26	14	12	14	18	21
Morrison	29	52	52	50	31	22	24	35	33	32	33	9
Mower	20	14	9	8	2	13	7	11	13	14	6	9
Murray	0	0	0	0	1	0	0	0	0	0	1	0
Nicollet	1	5	7	1	0	0	4	3	0	6	0	2
Nobles	0	0	0	4	0	0	0	0	0	0	1	0
Norman	21	45	27	19	13	9	8	5	2	2	5	3
Olmsted	3	0	7	7	5	3	5	4	8	8	8	6
Otter Tail	109	173	154	97	87	92	100	82	71	89	69	51
Pennington	2	12	5	8	8	11	2	7	2	4	3	1
Pine	44	66	98	59	86	48	20	36	35	24	34	22
Pipestone	0	0	0	0	0	1	1	0	0	1	1	0
Polk	49	83	71	47	37	20	12	14	12	38	30	11
Pope	20	22	14	19	8	19	8	14	19	4	13	1
Ramsey	0	3	1	1	1	0	0	0	0	0	0	1
Red Lake	19	26	11	10	14	13	1	3	3	13	11	1
Redwood	2	4	6	8	3	0	2	4	3	1	0	0
Renville	1	6	0	3	1	1	6	1	1	6	4	3
Rice	9	4	8	1	2	6	3	8	4	8	5	0
Rock	0	2	0	0	0	2	0	2	0	2	0	1
Roseau	33	64	48	44	23	24	22	20	20	39	32	22
Scott	2	4	3	2	4	5	4	7	8	14	11	10
Sherburne	19	12	9	10	10	11	8	9	3	7	2	11
Sibley	6	6	3	2	3	2	2	5	10	7	12	14
St. Louis	239	363	293	258	260	109	146	127	105	134	105	81
Stearns	41	53	53	41	50	45	28	34	22	29	15	22
Steele	0	3	1	0	1	3	3	4	6	4	2	2
Stevens	1	3	12	4	2	1	1	3	2	0	3	1
Swift	11	10	10	9	3	7	7	13	4	12	6	8
Todd	63	55	55	19	28	22	24	18	14	12	30	4
Traverse	1	4	1	0	3	7	4	11	3	4	5	8

Table 17 (continued). Comparison of otter harvest by county, 2011-2022.

County	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Wabasha	8	20	21	19	9	11	11	17	9	10	8	9
Wadena	20	43	30	30	19	5	8	8	11	27	17	13
Waseca	0	0	0	2	2	0	0	1	1	2	0	0
Washington	18	12	24	27	9	12	20	13	5	11	19	15
Watonwan	0	0	1	0	0	0	0	1	0	0	0	0
Wilkin	0	3	2	0	3	1	2	2	4	2	1	1
Winona	20	21	17	5	17	6	13	7	16	15	13	20
Wright	17	23	26	21	21	11	22	33	7	14	18	3
Yellow Medicine	0	7	9	0	3	0	2	2	1	6	5	5
Unknown	17	40	2	18	18	0	0	0	0	0	2	3
Totals	2,294	3,171	2,824	2,154	1,955	1,195	1,295	1,351	1,050	1,304	1,155	855

Table 18. Otter harvest by sex and week, 2022-23 season.

Date	Sex			Total Harvest	% of Total	Cumulative %
	Female	Male	Unknown			
Oct.29 - Nov.4	69	98	1	168	19.65	19.65
Nov.5 - Nov.11	44	72		116	13.57	33.22
Nov.12 - Nov.18	35	70		105	12.28	45.50
Nov.19 - Nov.25	34	51		85	9.94	55.44
Nov.26 - Dec.2	47	50	1	98	11.46	66.90
Dec.3 - Dec.9	39	27		66	7.72	74.62
Dec.10 - Dec.16	23	46		69	8.07	82.69
Dec.17 - Dec.23	17	22		39	4.56	87.25
Dec.24 - Dec.30	11	19		30	3.51	90.76
Dec.31 - Jan.6	10	12		22	2.57	93.33
Jan.7 - Jan.13	7	12		19	2.22	95.56
Jan.14 - Jan.20*	13	23		36	4.21	99.77
Unknown	0	2		2	0.23	100.00
Total	349	504	2	855	100%	

* 9-day interval.

Table 19. Distribution of otter harvest* among trappers, 1996-2022.

Number (%) of Takers	Number Taken				Total Takers	Ave. Take
	1	2	3	4		
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
2020-21	258 (42)	135 (22)	90 (15)	126 (21)	609	2.1
2021-22	178 (36)	109 (22)	81 (16)	128 (26)	496	2.3
2022-23	157 (41)	80 (21)	51 (13)	95 (25)	383	2.2

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