

REGISTERED FURBEARER HARVEST STATISTICS

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REGISTERED FURBEARER HARVEST STATISTICS 2018-19

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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, martens, bobcats, and river otters. 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 is desirable to help ensure sustainable populations. For the past 41 years, detailed harvest data has been collected for these species.

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), 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 no changes to season structures this year compared to the 2017 season. Compared to the previous year, bobcat harvest increased 39%, fisher harvest increased 7%, marten harvest declined 32%, and otter harvest increased 4%. 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.

ACKNOWLEDGMENTS

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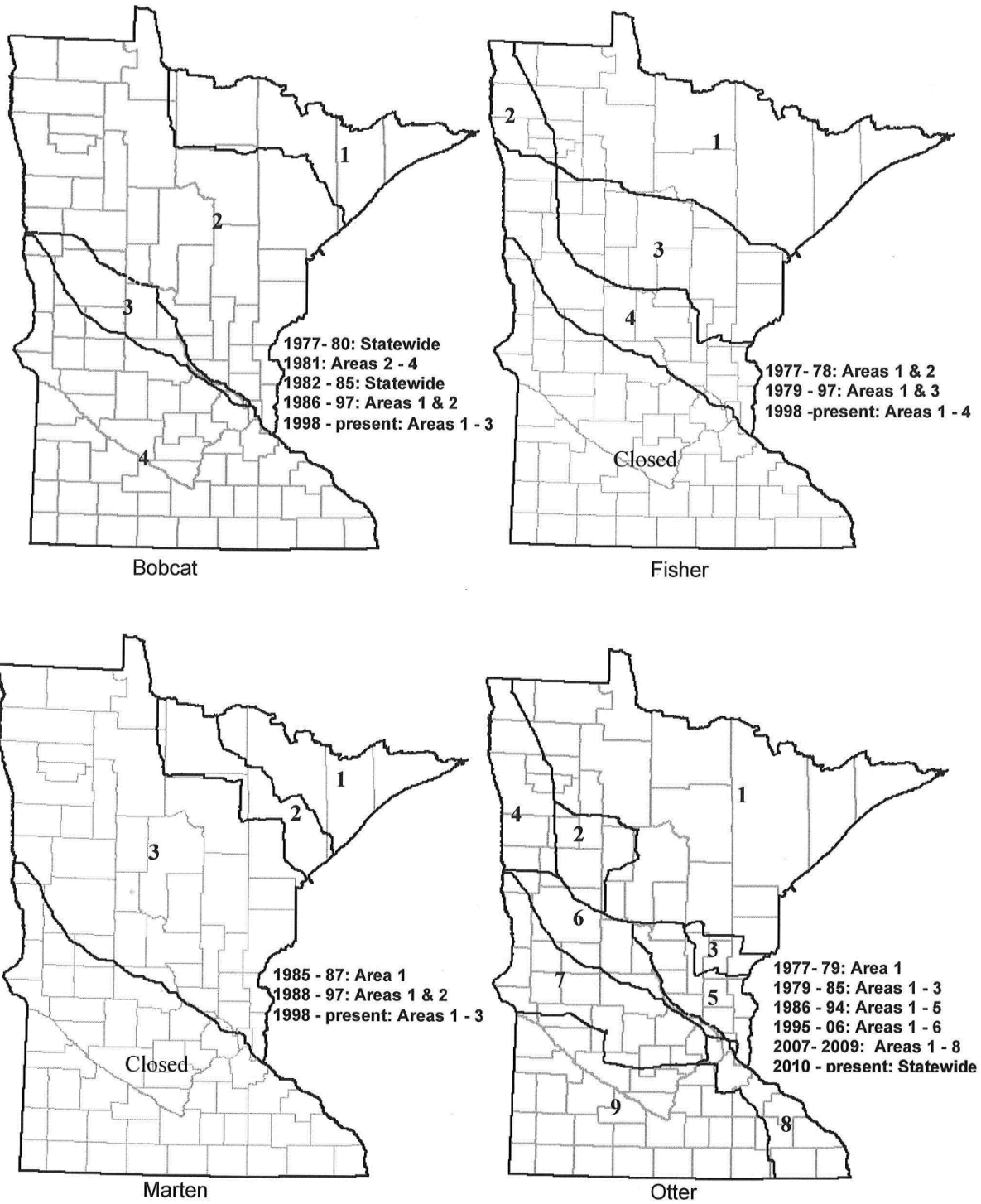


Figure 1. Open trapping areas for fisher, marten, bobcat, and otter, 1977 - present.

Table 1. Registered furbearer seasons and harvests, 1987-2018.

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
1987-88	11/28-1/3	37	5	212	11/28-12/13	16	1	1641	11/28-12/13	16	1	1363	10/24-11/29	37	3	1386
1988-89	11/26-1/1	37	5	141	11/26-12/11	16	1	1025	11/26-12/11	16	2	2072	10/29-11/27	30	3	922
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

^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).

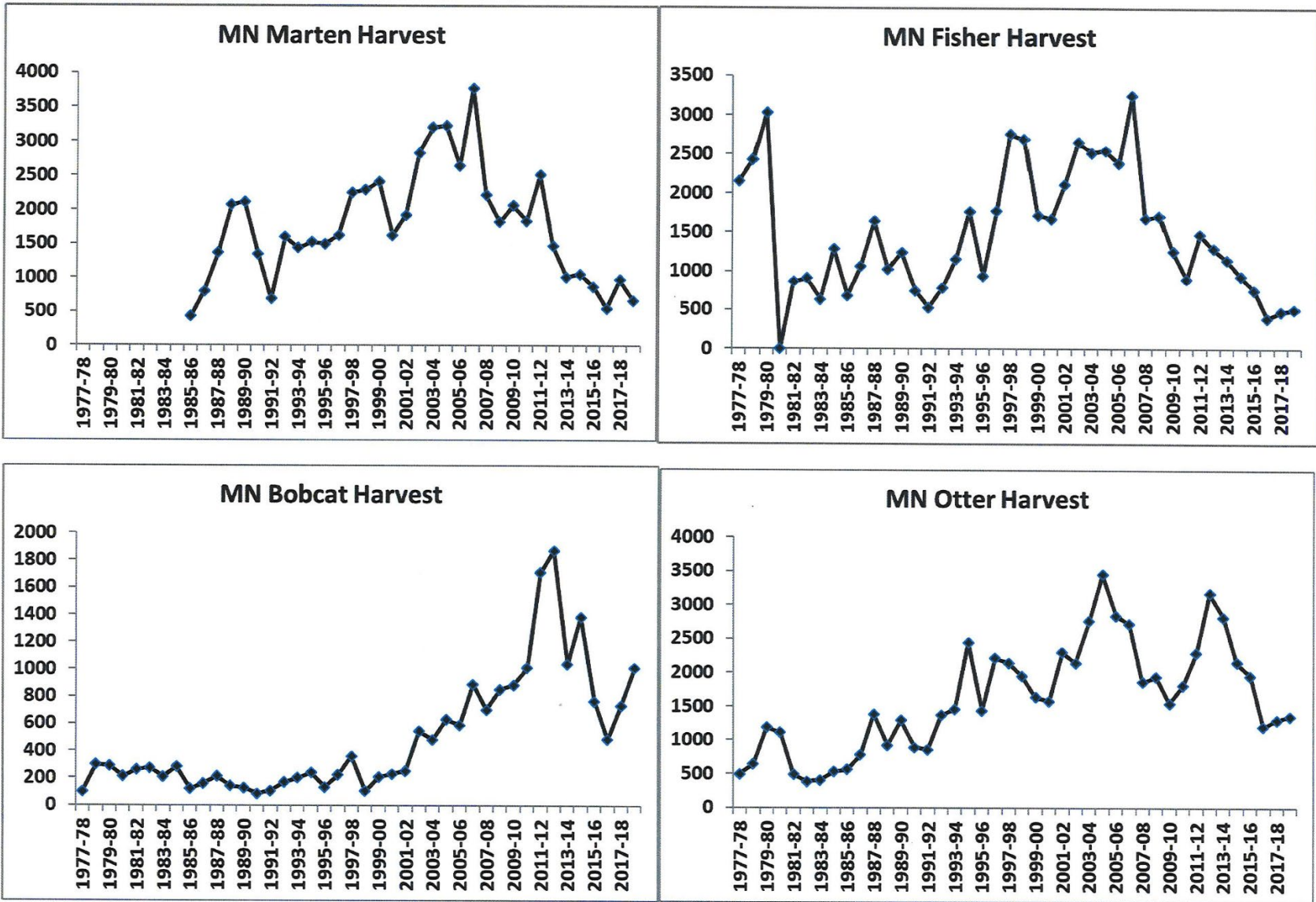


Figure 2. Harvest of registered furbearers in Minnesota, 1977-present.

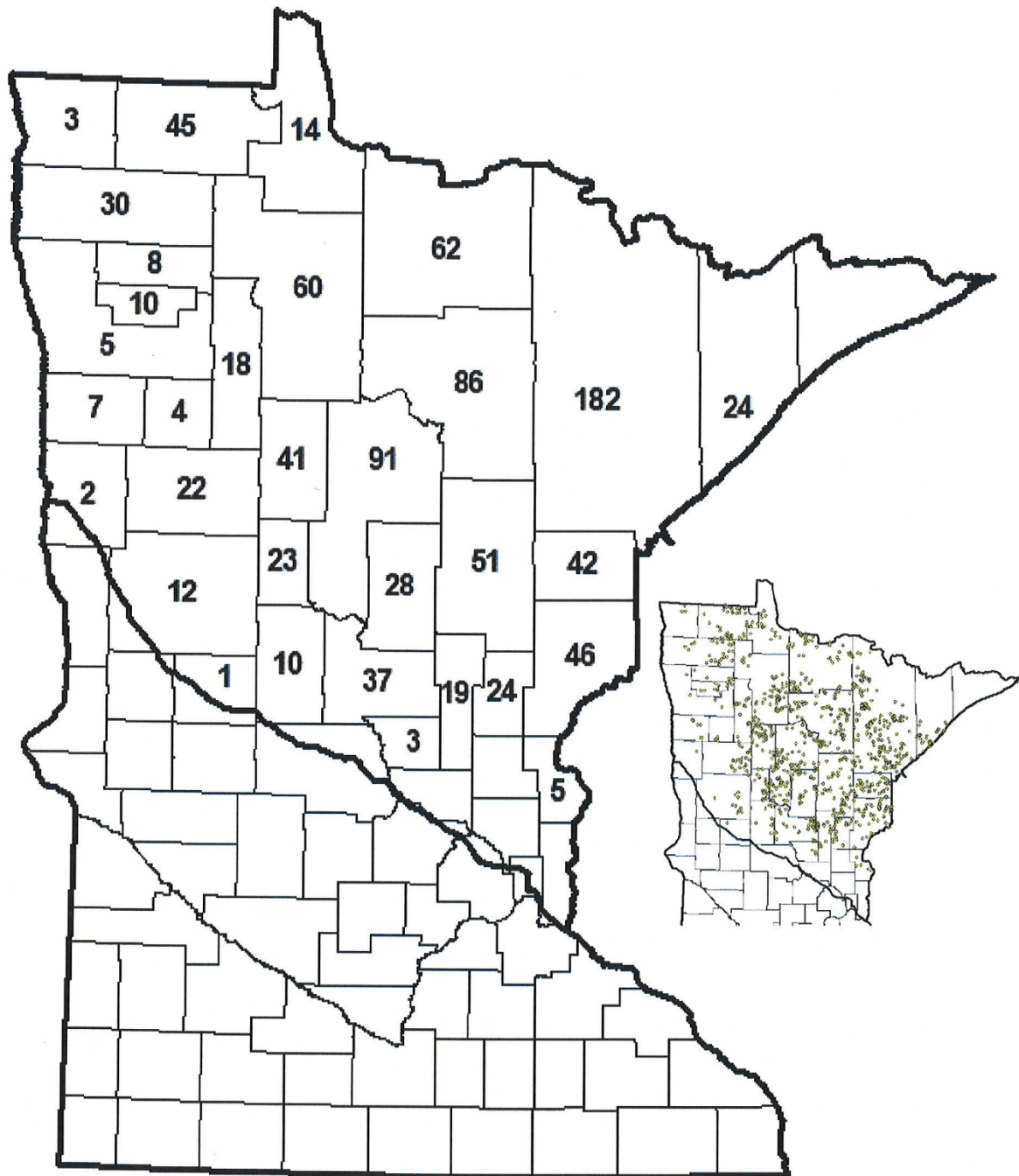


Figure 3. Bobcat harvest by county, 2018-19. Inset shows spatial distribution of harvest locations.

Table 2. Bobcat harvest by county and sex, 2018-19.

County	Sex*			Total	Harvest/ 100 Mile ²
	Male	Female	Unknown		
Aitkin	32	19		51	2.56
Anoka	0	0		0	0.00
Becker	10	12		22	1.52
Beltrami	29	30	1	60	1.96
Benton	2	1		3	0.73
Carlton	18	24		42	4.80
Cass	41	50		91	3.77
Chisago	3	2		5	1.13
Clay	1	1		2	0.19
Clearwater	13	5		18	1.75
Cook	0	0		0	0.00
Crow Wing	19	9		28	2.42
Douglas	0	1		1	0.14
Hubbard	19	22		41	4.10
Isanti	0	0		0	0.00
Itasca	39	47		86	2.94
Kanabec	16	8		24	4.50
Kittson	2	1		3	0.27
Koochiching	30	32		62	1.97
Lake	12	12		24	1.05
Lake of the Woods	9	5		14	0.79
Mahnomen	0	4		4	0.69
Marshall	19	11		30	1.65
Mille Lacs	6	13		19	2.79
Morrison	20	17		37	3.21
Norman	5	2		7	0.80
Otter Tail	4	8		12	0.54
Pennington	4	4		8	1.29
Pine	22	24		46	3.21
Polk	2	3		5	0.25
Red Lake	6	4		10	2.31
Roseau	22	23		45	2.68
Sherburne	0	0		0	0.00
St. Louis	80	102		182	2.70
Stearns	0	0		0	0.00
Todd	3	7		10	1.02
Wadena	11	12		23	4.23
Unknown	0	0		0	
Total	499	515	1	1015	

* 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, 2008-2018.

County	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Aitkin	64	82	73	121	142	65	105	39	22	41	51
Anoka	0	0	0	1	0	0	1	0	0	0	0
Becker	37	25	39	70	58	36	48	36	10	31	22
Beltrami	49	70	108	139	139	59	73	49	30	37	60
Benton	5	2	0	4	3	3	0	0	1	2	3
Carlton	45	44	37	94	63	42	88	25	16	33	42
Cass	98	115	117	164	150	76	126	73	44	72	91
Chisago	0	0	1	0	3	1	1	3	4	2	5
Clay	0	1	3	1	3	2	3	1	0	0	2
Clearwater	43	27	30	58	40	19	29	15	13	14	18
Cook	1	0	1	3	3	9	17	1	0	2	0
Crow Wing	36	38	29	64	65	19	32	21	7	24	28
Douglas	0	0	0	0	1	1	0	0	0	0	1
Hubbard	49	81	59	129	105	51	50	45	21	44	41
Isanti	0	0	0	0	0	1	0	1	1	0	0
Itasca	72	106	132	186	194	93	110	50	19	54	86
Kanabec	23	11	16	21	46	16	46	12	11	16	24
Kittson	9	4	9	10	7	5	5	7	6	3	3
Koochiching	31	25	54	66	82	50	40	22	25	26	62
Lake	1	2	7	15	21	13	15	8	4	8	24
Lake of the Woods	12	16	10	28	13	20	26	10	7	5	14
Mahnomen	0	4	2	9	7	4	4	3	5	2	4
Marshall	18	15	31	42	44	15	21	19	14	12	30
Mille Lacs	11	10	10	13	23	7	14	5	2	10	19
Morrison	28	13	23	25	35	15	25	16	17	19	37
Norman	0	1	0	3	6	3	8	4	1	4	7
Otter Tail	7	7	14	21	38	18	17	16	15	22	12
Pennington	9	6	5	4	13	7	3	4	1	4	8
Pine	101	49	50	94	135	54	87	56	37	43	46
Polk	4	9	9	17	20	10	16	15	10	9	5
Red Lake	0	7	16	20	25	6	11	3	1	15	10
Roseau	18	19	26	46	60	38	27	20	23	23	45
Sherburne	0	1	0	3	0	0	0	0	0	0	0
St. Louis	58	56	81	202	283	255	307	156	91	123	182
Stearns	0	0	0	0	0	2	0	1	0	0	0
Todd	14	10	9	14	16	5	8	8	9	13	10
Wadena	7	21	9	17	23	18	18	10	18	18	23
Unknown	3	7	2	7	9	0	3	12	0	0	0
Total	853	884	1012	1711	1875	1038	1384	766	485	731	1015

Table 4. Bobcat harvest by sex and week, 2018-19 season.

Date	Sex*			Total	% of Total	Cumulative %
	Male	Female	Unknown			
Nov.24 – Nov. 30	62	65	1	128	12.61	12.61
Dec.1 - Dec.7	80	95		175	17.24	29.85
Dec.8 - Dec.14	106	90		196	19.31	49.16
Dec.15 - Dec.21	91	90		181	17.83	67.00
Dec.22 - Dec.28	93	87		180	17.73	84.73
Dec.29 - Jan.6**	66	88		154	15.17	99.90
Unknown	1	0		1	0.10	100%
Total	499	515	1	1015	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, 1992-2018.

Number (%) of Takers	Number Taken					Total Takers
	1	2	3	4	5	
1992-93	69 (64)	21 (20)	9 (9)	5 (5)	2 (2)	106
1993-94	90 (70)	17 (13)	13 (10)	7 (5)	2 (2)	201
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

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

Table 6. Bobcat harvest by method of take, 1991-2018.

Year	Total	Trapping					Hunting				
	Harvest ^a	Harvest	% of Total	# Takers	Ave. Take	% Males ^b	Harvest	% of Total	# Takers	Ave. Take	% Males ^b
1991-92	102	59	58	31	1.9		43	42	33	1.3	
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

^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

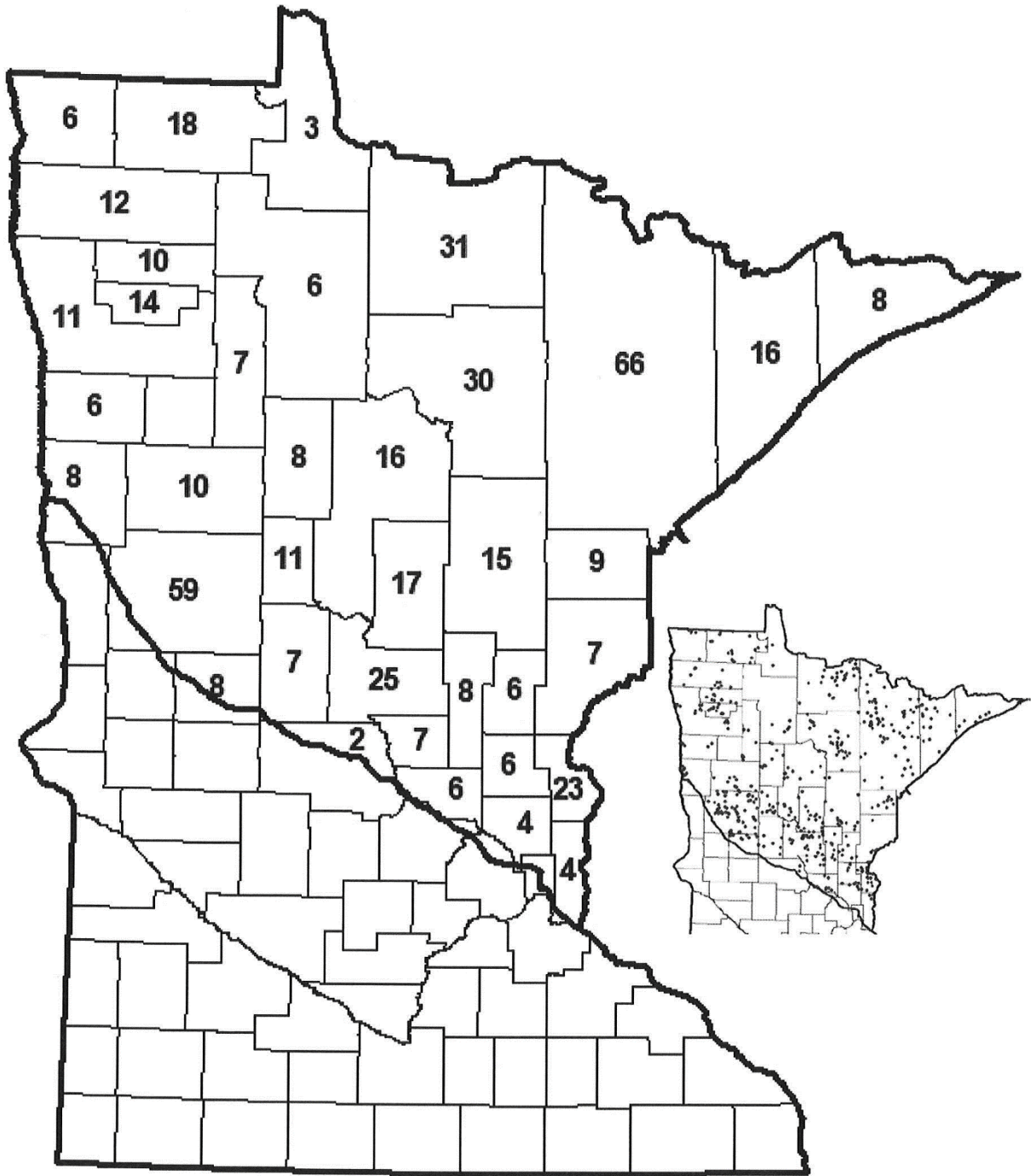


Figure 4. Fisher harvest by county, 2018. Inset shows spatial distribution of harvest locations.

Table 7. Fisher harvest by county and sex, 2018 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Male	Female	Unknown		
Aitkin	6	9		15	0.75
Anoka	3	1		4	0.90
Becker	4	5	1	10	0.69
Beltrami	6	0		6	0.20
Benton	3	4		7	1.70
Carlton	5	4		9	1.03
Cass	12	4		16	0.66
Chisago	15	8		23	5.20
Clay	4	4		8	0.76
Clearwater	4	3		7	0.68
Cook	5	3		8	0.50
Crow Wing	8	9		17	1.47
Douglas	5	3		8	1.11
Grant	0	0		0	0.00
Hubbard	5	3		8	0.80
Isanti	3	3		6	1.33
Itasca	13	17		30	1.03
Kanabec	4	2		6	1.13
Kittson	6	0		6	0.54
Koochiching	18	13		31	0.98
Lake	5	11		16	0.70
Lake of the Woods	3	0		3	0.17
Mahnomen	0	0		0	0.00
Marshall	4	8		12	0.66
Mille Lacs	5	3		8	1.18
Morrison	13	12		25	2.17
Norman	4	2		6	0.68
Otter Tail	34	25		59	2.65
Pennington	7	3		10	1.62
Pine	5	2		7	0.49
Polk	4	7		11	0.55
Red Lake	5	9		14	3.23
Roseau	8	10		18	1.07
Sherburne	2	4		6	1.33
St. Louis	28	38		66	0.98
Stearns	0	2		2	0.14
Todd	4	3		7	0.71
Wadena	6	5		11	2.03
Washington	3	1		4	0.94
Wilkin	0	0		0	0.00
Unknown	0	0		0	
Total	269	240	1	510	

Table 8. Comparison of fisher harvest by county, 2007-2018.

County	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Aitkin	67	75	50	35	55	52	47	24	38	16	10	15
Anoka	0	2	0	0	1	2	1	2	7	4	0	4
Becker	57	36	44	30	32	45	38	21	23	3	18	10
Beltrami	40	15	22	10	25	21	17	4	8	9	6	6
Benton	0	3	2	0	5	5	2	4	3	7	4	7
Carlton	13	19	15	12	12	14	8	14	13	6	1	9
Cass	80	77	57	43	41	37	23	30	24	11	12	16
Chisago	7	4	10	6	10	3	4	16	18	11	8	23
Clay	0	3	0	6	10	6	5	6	4	4	2	8
Clearwater	19	37	13	6	8	5	12	3	2	3	0	7
Cook	29	10	11	17	28	11	13	11	5	4	3	8
Crow Wing	81	116	42	48	64	55	51	34	31	13	17	17
Douglas	2	5	2	6	15	24	8	20	12	6	2	8
Grant	0	0	0	1	0	0	0	0	0	0	0	0
Hubbard	20	38	18	13	10	11	10	8	6	5	6	8
Isanti	1	5	9	1	4	6	11	11	12	3	13	6
Itasca	195	195	166	88	142	105	116	78	47	13	34	30
Kanabec	11	26	20	13	21	27	30	9	10	6	2	6
Kittson	5	8	5	7	5	9	11	2	3	5	7	6
Koochiching	105	115	96	51	116	80	51	67	45	23	40	31
Lake	49	54	49	45	56	53	35	28	14	14	12	16
Lake of the Woods	17	42	21	9	33	21	13	12	15	6	9	3
Mahnomen	25	6	3	0	3	0	4	2	0	0	0	0
Marshall	19	26	6	7	13	14	17	22	22	6	5	12
Mille Lacs	15	17	18	18	17	20	17	12	6	13	7	8
Morrison	21	14	10	8	10	24	25	23	15	16	11	25
Norman	9	12	7	4	10	19	21	12	5	9	3	6
Otter Tail	110	152	67	100	138	121	117	102	77	41	53	59
Pennington	16	8	2	4	8	8	11	19	11	4	9	10
Pine	39	74	30	26	22	42	46	44	35	18	17	7
Polk	61	49	31	25	54	58	45	32	22	11	9	11
Red Lake	29	23	23	10	17	16	24	18	6	8	18	14
Roseau	84	89	58	20	79	61	42	32	26	15	24	18
Sherburne	0	0	3	1	6	2	2	2	2	0	0	6
St. Louis	407	283	296	186	350	233	220	171	125	61	72	66
Stearns	0	1	1	0	4	1	4	2	3	3	5	2
Todd	13	33	22	18	15	29	22	15	19	12	20	7
Wadena	27	37	23	23	31	25	23	21	26	9	17	11
Washington		1	0	0	0	1	1	0	2	2	1	4
Wilkin		0	0	0	0	1	0	0	0	0	0	0
Unknown		8	3	7	6	1	27	0	8	14	0	0
Total		1,682	1,712	1,259	903	1,473	1,293	1,146	943	756	399	510

Table 9. Fisher harvest by date and sex, 2018 season.

Date	Sex			Total	% of Known	Cumulative
	Male	Female	Unknown		Total	%
Nov. 24	6	4		10	1.96	1.96
Nov. 25	64	57		121	23.73	25.69
Nov. 26	60	53		113	22.16	47.84
Nov. 27	52	54		106	20.78	68.63
Nov. 28	46	32		78	15.29	83.92
Nov. 29	41	38	1	80	15.69	99.61
Unknown	0	2		2	0.39	100%
Total	269	240	1	510	100%	

Table 10. Distribution of fisher harvest* among trappers, 1993-2018.

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

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

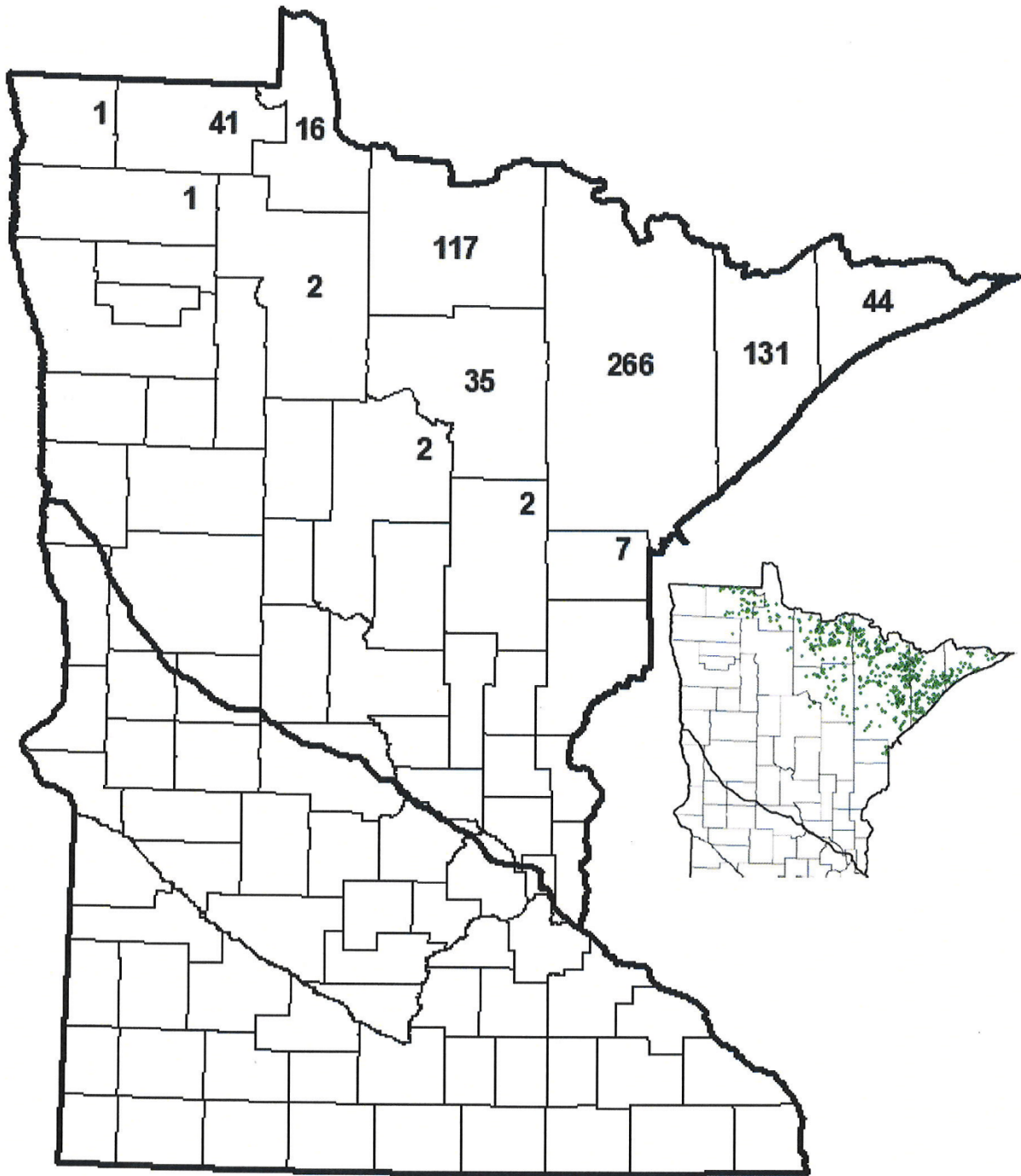


Figure 5. Marten harvest by county, 2018. Inset shows spatial distribution of harvest locations.

Table 11. Marten harvest by county and sex, 2018 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Male	Female	Unknown		
Aitkin	2	0		2	0.10
Becker	0	0		0	0.00
Beltrami	2	0		2	0.07
Carlton	2	5		7	0.80
Cass	1	1		2	0.08
Clearwater	0	0		0	0.00
Cook	33	11		44	2.74
Crow Wing	0	0		0	0.00
Hubbard	0	0		0	0.00
Itasca	24	11		35	1.20
Kanabec	0	0		0	0.00
Kittson	1	0		1	0.09
Koochiching	83	34		117	3.71
Lake	82	49		131	5.73
Lake of the Woods	9	7		16	0.90
Mahnomen	0	0		0	0.00
Marshall	0	1		1	0.06
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	25	16		41	2.44
St. Louis	179	87		266	3.95
Unknown	0	0		0	
Total	443	222	0	665	

Table 12. Comparison of marten harvest by county in Minnesota, 2007-2018.

County	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Aitkin	4	12	5	4	13	10	8	12	4	1	7	2
Becker	0	0	0	0	0	0	0	0	1	0	0	0
Beltrami	8	6	10	2	11	20	15	7	15	7	16	2
Carlton	1	4	8	5	6	3	1	1	0	0	7	7
Cass	0	1	2	1	2	0	0	3	2	2	2	2
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0
Cook	269	151	244	191	205	148	78	43	39	23	40	44
Crow Wing	0	0	1	0	1	0	0	1	0	2	0	0
Hubbard	0	0	0	0	0	0	0	0	1	0	0	0
Itasca	74	72	91	73	118	46	62	79	64	28	52	35
Kanabec	0	0	0	0	0	0	0	0	0	0	0	0
Kittson	0	0	0	1	0	4	0	1	0	0	3	1
Koochiching	348	300	354	336	516	276	218	265	169	107	176	117
Lake	520	438	496	491	577	290	185	149	138	109	172	131
Lake of the Woods	31	17	17	13	49	32	18	23	25	21	32	16
Mahnomen	0	0	0	0	0	0	0	0	0	0	0	0
Marshall	1	0	4	0	3	3	5	5	3	1	1	1
Otter Tail	0	0	0	0	0	0	0	1	0	0	0	0
Pennington	1	0	0	0	0	0	0	0	1	0	0	0
Pine	1	0	0	1	0	0	0	1	0	0	0	0
Red Lake	0	0	0	0	0	1	1	0	0	0	0	0
Roseau	69	46	32	13	98	77	37	40	33	31	74	41
St. Louis	885	769	803	709	926	562	386	421	377	219	397	266
Unknown	9	7	6	2	0	0	0	7	5	0	0	0
Total	2,221	1,823	2,073	1,842	2,525	1,472	1,014	1,059	877	551	979	665

Table 13. Marten harvest by date and sex, 2018 season.

Date	Sex			Total	% of Known	Cumulative
	Male	Female	Unknown		Total	%
Nov. 24	3	3		6	0.90	0.90
Nov. 25	148	72		220	33.08	33.98
Nov. 26	95	47		142	21.35	55.34
Nov. 27	84	51		135	20.30	75.64
Nov. 28	55	30		85	12.78	88.42
Nov. 29	56	19		75	11.28	99.70
Unknown	2	0		2	0.30	100%
Total	443	222	0	665	100%	

Table 14. Distribution of marten harvest* among trappers, 1993-2018.

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

* 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, 2018. (Combined limit = 2)

Number of Takers		Number of Marten					
		0	1	2	3	4	5
Number of Fisher	0		121	231			
	1	174	79				
	2	128					
	3						
	4						
	5						
						Total takers of at least 1 fisher or marten	733

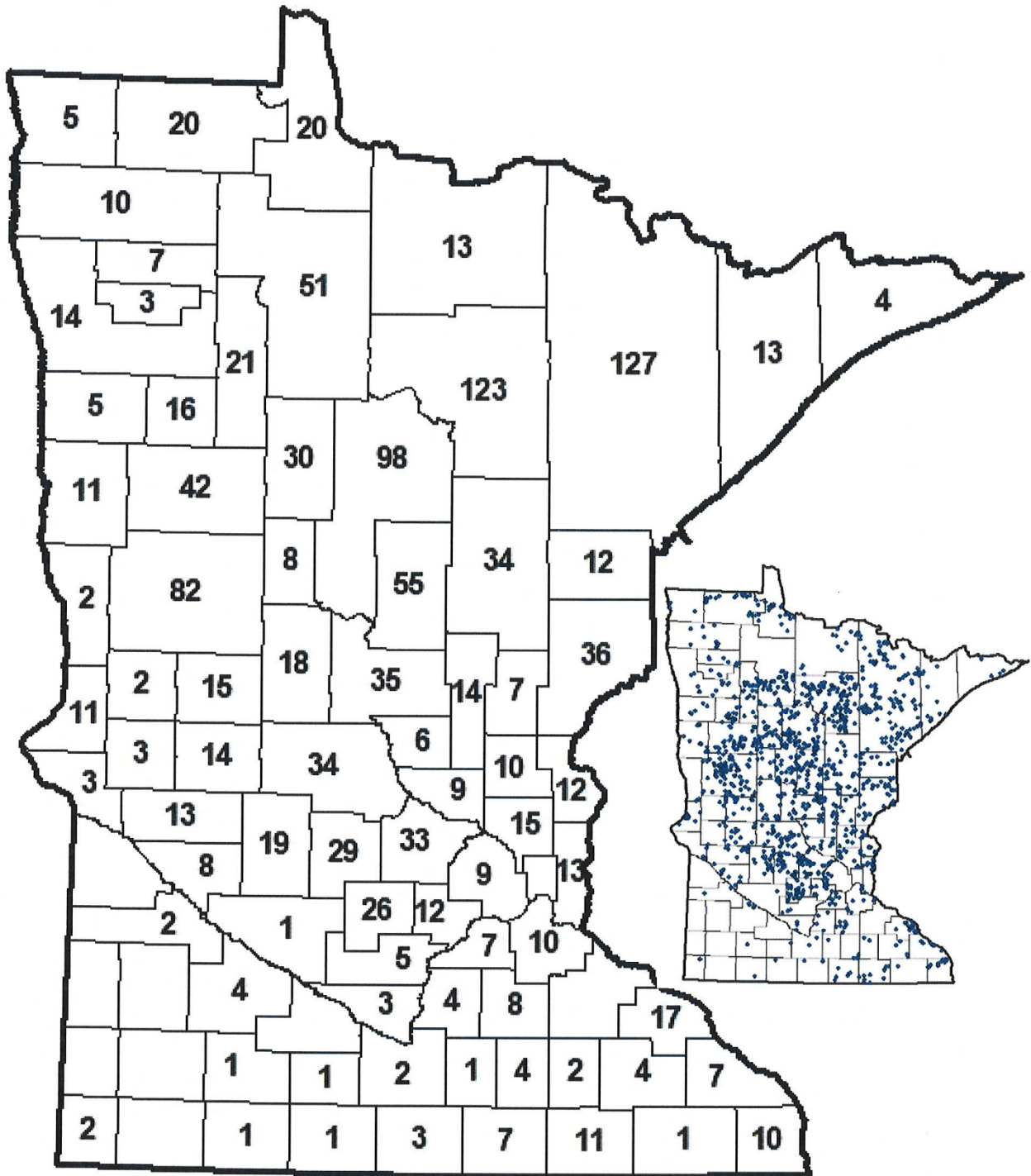


Figure 6. Otter harvest by county, 2018-19. Inset shows spatial distribution of harvest locations.

Table 16. Otter harvest by county and sex, 2018-19 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Male	Female	Unknown		
Aitkin	22	12		34	1.71
Anoka	9	6		15	3.37
Becker	22	20		42	2.91
Beltrami	27	27		51	1.67
Benton	3	3		6	1.45
Big Stone	3	0		3	0.57
Blue Earth	2	0		2	0.26
Brown	0	0		0	0.00
Carlton	7	5		12	1.37
Carver	9	3		12	3.19
Cass	55	43		98	4.06
Chippewa	4	4		8	1.36
Chisago	10	2		12	2.71
Clay	6	5		11	1.04
Clearwater	9	12		21	2.04
Cook	2	2		4	0.25
Cottonwood	0	11		1	0.15
Crow Wing	30	25		55	4.76
Dakota	7	3		10	1.71
Dodge	2	0		2	0.46
Douglas	8	7		15	2.08
Faribault	2	1		3	0.42
Fillmore	1	0		1	0.12
Freeborn	4	3		7	0.97
Goodhue	0	0		0	0.00
Grant	0	2		2	0.35
Hennepin	2	7		9	1.48
Houston	5	5		10	1.76
Hubbard	12	18		30	3.00
Isanti	3	7		10	2.22
Itasca	76	47		123	4.20
Jackson	1	0		1	0.14
Kanabec	6	1		7	1.31
Kandiyohi	6	13		19	2.20
Kittson	5	0		5	0.45
Koochiching	5	8		13	0.41
Lac Qui Parle	0	0		0	0.00
Lake	8	5		13	0.57
Lake of the Woods	10	10		20	1.12
Le Sueur	3	1		4	0.84
Lincoln	0	0		0	0.00
Lyon	0	0		0	0.00
Mahnomen	10	6		16	2.74
Marshall	6	4		10	0.55
Martin	1	0		1	0.14
McLeod	18	8		26	5.15
Meeker	17	12		29	4.50
Mille Lacs	7	7		14	2.06
Morrison	21	14		35	3.04
Mower	5	6		11	1.55
Murray	0			0	0.00
Nicollet	2	1		3	0.64
Nobles	0	0		0	0.00
Norman	1	4		5	0.57
Olmsted	3	1		4	0.61

Table 16 (continued). Otter harvest by county and sex, 2018-19 season.

County	Sex			Total	Harvest/ 100 Mile ²
	Male	Female	Unknown		
Otter Tail	46	35	1	82	3.69
Pennington	4	3		7	1.13
Pine	21	15		36	2.51
Pipestone	0	0		0	0.00
Polk	7	7		14	0.70
Pope	7	7		14	1.95
Ramsey	0	0		0	0.00
Red Lake	2	1		3	0.69
Redwood	2	2		4	0.45
Renville	0	1		1	0.10
Rice	6	2		8	1.55
Rock	1	1		2	0.41
Roseau	12	8		20	1.19
Scott	5	2		7	1.90
Sherburne	5	4		9	2.00
Sibley	3	2		5	0.83
St. Louis	79	48		127	1.88
Stearns	19	15		34	2.45
Steele	2	2		4	0.93
Stevens	2	1		3	0.52
Swift	7	6		13	1.73
Todd	10	8		18	1.84
Traverse	6	5		11	1.88
Wabasha	8	9		17	3.10
Wadena	5	3		8	1.47
Waseca	0	1		1	0.23
Washington	7	6		13	3.07
Watonwan	0	1		1	0.23
Wilkin	2	0		2	0.27
Winona	5	2		7	1.09
Wright	21	12		33	4.62
Yellow Medicine	2	0		2	0.26
Unknown	0	0		0	
Total	773	577	1	1,351	

Table 17. Comparison of otter harvest by county, 2007 - 2018.

County	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Aitkin	53	65	54	59	107	111	90	67	74	61	33	34
Anoka	26	18	26	8	13	31	25	23	20	12	18	15
Becker	54	55	39	53	95	127	87	77	83	21	27	42
Beltrami	105	80	74	77	112	120	98	74	76	43	40	51
Benton	9	11	3	13	13	21	17	8	1	3	3	6
Big Stone	0	2	1	0	3	3	9	8	3	1	6	3
Blue Earth	0	0	0	0	2	3	1	2	1	3	3	2
Brown	0	0	0	0	0	0	0	0	2	2	0	0
Carlton	36	29	30	35	29	38	37	26	42	32	9	12
Carver	2	5	6	5	15	8	9	17	11	8	8	12
Cass	124	160	90	135	140	183	161	193	172	74	92	98
Chippewa	0	0	0	5	7	8	12	6	4	3	8	8
Chisago	16	15	18	23	19	24	32	26	20	12	18	12
Clay	8	14	7	23	42	23	16	14	18	10	10	11
Clearwater	39	35	19	38	41	46	47	23	38	21	33	21
Cook	13	12	16	19	36	55	57	28	9	4	0	4
Crow Wing	63	99	76	66	107	117	96	83	59	35	41	1
Dakota	0	5	7	1	0	11	10	6	13	3	8	55
Dodge	0	0	0	3	1	1	3	4	2	0	3	10
Douglas	18	28	11	14	34	37	23	33	22	21	15	2
Faribault	0	0	0	0	1	12	3	1	3	5	9	15
Fillmore	6	1	1	5	5	10	6	13	3	3	4	3
Freeborn	0	0	0	5	10	10	1	7	6	2	11	1
Goodhue	3	3	7	11	7	18	2	2	11	4	9	7
Grant	3	3	6	1	8	12	6	13	4	3	5	0
Hennepin	1	3	6	2	3	4	5	6	3	2	2	2
Houston	9	15	11	11	10	26	22	14	9	2	8	9
Hubbard	59	72	41	52	42	67	61	36	32	26	39	10
Isanti	30	17	18	14	9	18	28	23	13	17	13	30
Itasca	205	201	191	247	281	346	345	184	159	67	84	10
Jackson	0	0	0	0	0	0	0	0	1	0	0	123
Kanabec	44	29	23	17	22	52	45	34	26	20	29	1
Kandiyohi	2	6	6	8	8	10	20	20	23	17	18	7
Kittson	11	2	3	8	2	9	7	4	0	8	8	19
Koochiching	70	95	61	81	62	127	115	55	68	19	16	5
Lac Qui Parle	0	0	0	2	6	15	6	1	7	0	8	13
Lake	35	34	45	28	36	66	67	45	26	23	12	0
Lake of the Woods	30	17	8	15	27	27	27	31	31	8	16	13

Table 17 (continued). Comparison of otter harvest by county, 2007 - 2018.

County	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Le Sueur	0	0	0	3	0	9	5	2	2	4	3	4
Lincoln	0	0	0	0	0	4	0	0	0	0	2	0
Lyon	0	0	0	0	0	0	0	0	0	0	1	0
Mahnomen	24	7	7	9	20	15	25	7	6	3	9	16
Marshall	6	2	0	13	13	15	15	4	9	12	15	10
Martin	0	0	0	0	0	1	0	0	1	1	1	1
McLeod	6	6	8	12	18	19	22	18	16	14	16	26
Meeker	13	13	16	12	28	19	32	35	23	11	26	29
Mille Lacs	33	26	28	19	15	30	39	28	16	13	26	14
Morrison	45	43	31	29	29	52	52	50	31	22	24	35
Mower	0	0	0	8	20	14	9	8	2	13	7	11
Murray	0	0	0	0	0	0	0	0	1	0	0	0
Nicollet	0	0	0	2	1	5	7	1	0	0	4	3
Nobles	0	0	0	0	0	0	0	4	0	0	0	0
Norman	9	17	11	12	21	45	27	19	13	9	8	5
Olmsted	0	2	3	2	3	0	7	7	5	3	5	4
Otter Tail	50	82	32	65	109	173	154	97	87	92	100	82
Pennington	9	0	1	4	2	12	5	8	8	11	2	7
Pine	50	74	37	38	44	66	98	59	86	48	20	36
Pipestone	0	0	0	0	0	0	0	0	0	1	1	0
Polk	32	25	19	36	49	83	71	47	37	20	12	14
Pope	11	12	12	11	20	22	14	19	8	19	8	14
Ramsey	0	0	0	0	0	3	1	1	1	0	0	0
Red Lake	19	8	20	22	19	26	11	10	14	13	1	3
Redwood	0	0	0	0	2	4	6	8	3	0	2	4
Renville	0	0	0	0	1	6	0	3	1	1	6	1
Rice	0	0	0	1	9	4	8	1	2	6	3	8
Rock	0	0	0	0	0	2	0	0	0	2	0	2
Roseau	32	53	23	32	33	64	48	44	23	24	22	20
Scott	3	3	1	4	2	4	3	2	4	5	4	7
Sherburne	26	10	17	7	19	12	9	10	10	11	8	9
Sibley	0	0	0	6	6	6	3	2	3	2	2	5
St. Louis	290	251	233	253	239	363	293	258	260	109	146	127
Stearns	9	38	24	13	41	53	53	41	50	45	28	34
Steele	0	0	0	1	0	3	1	0	1	3	3	4
Stevens	1	3	1	6	1	3	12	4	2	1	1	3
Swift	9	4	5	2	11	10	10	9	3	7	7	13
Todd	35	37	32	41	63	55	55	19	28	22	24	18

Table 17 (continued). Comparison of otter harvest by county, 2007-2018.

County	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Traverse	1	0	2	0	1	4	1	0	3	7	4	11
Wabasha	15	7	18	7	8	20	21	19	9	11	11	17
Wadena	15	19	15	16	20	43	30	30	19	5	8	8
Waseca	0	0	0	0	0	0	0	2	2	0	0	1
Washington	18	19	11	16	18	12	24	27	9	12	20	13
Watsonwan	0	0	0	0	0	0	1	0	0	0	0	1
Wilkin	2	0	0	0	0	3	2	0	3	1	2	2
Winona	11	19	13	15	20	21	17	5	17	6	13	7
Wright	7	9	8	11	17	23	26	21	21	11	22	33
Yellow Medicine	0	0	0	0	0	7	9	0	3	0	2	2
Unknown	6	18	12	2	17	40	2	18	18	0	0	0
Totals	1,861	1,938	1,544	1,814	2,294	3,171	2,824	2,154	1,955	1,195	1,295	1,351

Table 18. Otter harvest by sex and week, 2018-19 season.

Date	Sex			Total Harvest	% of Total	Cumulative %
	Male	Female	Unknown			
Oct.27 - Nov.2	156	121		277	20.50	20.50
Nov.3 - Nov.9	130	101		231	17.10	37.60
Nov.10 - Nov.16	76	52		128	9.47	47.08
Nov.17 - Nov.23	63	45		108	7.99	55.07
Nov.24 - Nov. 30	100	66		166	12.29	67.36
Dec.1 - Dec.7	67	45		112	8.29	75.65
Dec.8 - Dec.14	51	33		84	6.22	81.87
Dec.15 - Dec.21	36	42	1	79	5.85	87.71
Dec.22 - Dec.28	55	41		96	7.11	94.82
Dec.29 - Jan.6*	39	30		69	5.11	99.93
Unknown	0	1		1	0.07	100.00
Total	773	577	1	1,351	100%	

* 9-day interval

Table 19. Distribution of otter harvest* among trappers, 1993-2018.

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

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

