

HUNTING HARVEST STATISTICS

Division of Fish and Wildlife
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2004 Small Game Hunter mail survey

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INTRODUCTION:

The Minnesota Department of Natural Resources, Research Surveys and Statistics unit annually conducts a survey of small game hunters. Annual harvest estimates from survey data provide the basis for future hunting regulations and season structure.

METHODS:

The Research Surveys and Statistics unit requests a random sample be drawn from the Electronic License System database in late February to ensure that each license holder has an equal chance of being in the survey sample. The sample consists of 6,000 (approximately 2%) names /addresses for Small Game License holders, drawn proportionately from each of the Small Game license types available.

Hunters that return the survey questionnaire (Figure 1) within three weeks, are marked returned and eliminated from follow-up mailings. Follow-up mailings were sent to non-respondents at three week intervals. There were three follow-up mailings to non-respondents.

Completed and returned questionnaires were checked for completeness, consistency, and biological practicability. Cards were marked with numeric county codes corresponding to the hunter's written information. Data from each usable card was converted to an electronic database. Data were checked for errors, duplicate responses, and /or missing data. The following is a list of assumptions made in data coding:

- 1) If an individual checked the box indicating (s)he did not hunt, but harvest information was provided, it is assumed that the individual did hunt.
- 2) If a range is given for "number of days hunted" or "number of animals harvested", the median of the range, rounded to the nearest even integer is recorded.
- 3) If a hunter indicates spending time hunting for a species, but leaves "number bagged" blank, the # bagged is entered as missing data.
- 4) If a small game hunter indicated bagging a species, but leaves "number of days hunted" blank, then "number of days hunted" is recorded as missing data.
- 5) If more than one county is indicated for "county hunted in most", the first county listed is recorded. However, if the several counties listed are indicated to apply to all species hunted, then counties are recorded in sequential order in relation to species hunted.
- 6) If "county hunted in most" is left unanswered or not legible, the county is recorded as missing data.

Data from all usable cards are tabulated and statistically analyzed by the St. Paul staff, using SAS statistical analysis software programs.

RESULTS

Attached are the survey results. All estimates are Statewide unless otherwise indicated.

Table 1. Small game hunter response to mail surveys, 1979 - 80 through 2004 - 05.

Year	Number mailed	Number not delivered	Delivered questionnaires completed and returned	
			Number	Percent
1979 - 80	5,696	443	4,504	85.7
1980 - 81	6,434	385	4,963	82.0
1981 - 82	6,656	399	5,419	86.6
1982 - 83	5,963	266	4,792	84.1
1983 - 84	4,551	269	3,325	77.7
1984 - 85	4,096	127	3,280	82.6
1985 - 86	3,370	157	2,574	80.1
1986 - 87	4,668	208	3,623	81.2
1987 - 88	5,513	248	4,191	79.6
1988 - 89	15,388	857	11,431	78.7
1989 - 90 ^a	10,893	735	7,790	76.7
1990 - 91 ^a	5,000	394	3,467	75.3
1991 - 92 ^a	5,050	387	3,541	75.9
1992 - 93 ^a	5,000	288	3,625	76.9
1993 - 94 ^a	5,011	282	3,320	70.2
1994 - 95 ^a	5,000	387	3,353	72.7
1995 - 96 ^a	5,000	321	3,293	70.4
1996 - 97 ^a	5,000	170	3,334	69.0
1997 - 98 ^a	5,000	198	3,234	67.3
1998 - 99 ^a	5,000	200	3,153	65.7
1999 - 00 ^a	5,001	180	3,349	69.5
2000 - 01 ^a	5,000	184	3,001	62.3
2001 - 02 ^a	6,000	225	3,667	64.0
2002 - 03 ^a	6,000	363	3,862	68.5
2003 - 04 ^a	6,400	381	3,972	66.0
2004 - 05 ^a	6,000	356	3,823	68.0

^a Includes resident and non-resident licenses, and excludes duplicate licenses.

Table 2. Use of small game hunter licenses, 1994-95 through 2004-2005.

		Returns from mail survey	Projections from license sales
1994-95	Hunted	2,826 (84.6%)	244,654
	Did not hunt	<u>516 (15.4%)</u>	<u>44,535</u>
		3,342 (100.0%)	289,189
1995-96	Hunted	2,714 (84.6%)	252,775
	Did not hunt	<u>494 (15.4%)</u>	<u>46,014</u>
		3,208 (100.0%)	298,789
1996-97	Hunted	2,631 (79.6%)	237,476
	Did not hunt	<u>674 (20.4%)</u>	<u>60,861</u>
		3,305(100.0%)	298,337
1997-98	Hunted	2,604 (80.7%)	246,285
	Did not hunt	<u>622 (19.3%)</u>	<u>58,901</u>
		3,226 (100.0%)	305,186
1998-99	Hunted	2,612 (82.8%)	265,215
	Did not hunt	<u>541 (17.2%)</u>	<u>55,093</u>
		3,153 (100.0%)	320,308
1999-00	Hunted	2,689 (80.7%)	264,237
	Did not hunt	<u>644 (19.3%)</u>	<u>63,194</u>
		3,333 (100.0%)	327,431
2000-01	Hunted	2,254 (78.7%)	252,518
	Did not hunt	<u>610 (21.3%)</u>	<u>68,344</u>
		2,864 (100.0%)	320,862
2001-02	Hunted	2,849 (77.7%)	231,589
	Did not hunt	<u>610 (21.3%)</u>	<u>66,466</u>
		3,665 (100.0%)	298,055
2002-03	Hunted	2,962 (76.7%)	221,455
	Did not hunt	<u>900 (23.3%)</u>	<u>67,274</u>
		3,862 (100.0%)	288,729
2003-04	Hunted	3,085 (78.2%)	232,206
	Did not hunt	<u>862 (21.8%)</u>	<u>64,733</u>
		3,947 (100.0%)	296,939
2004-05	Hunted	2,934 (77.6%)	232,206
	Did not hunt	<u>847 (22.4%)</u>	<u>64,733</u>
		3,781 (100.0%)	287,725

Includes resident and non-resident information. Excludes duplicates.

2004 Small Game Hunter Report

1. Did you hunt small game, listed below, in Minnesota this year (March 2004 - Feb 2005)? No Yes (Please check box)
2. Indicate the **total number of days** spent hunting small game of all species listed below, in Minnesota. 7
3. For the species you hunted indicate your harvest, number of days hunted, and county in which you hunted most for each species, even if **None** were bagged. Report only game you **personally** bagged and retrieved in Minnesota. **Do not** include birds taken on shooting preserves or game farms.

	Number You bagged	Days Hunted	County
Ducks (all species)	01	3	ITASCA 31
Coots (mud hens)	50	1	
Canada geese	40		
Other geese	41		
Snipe (jacksnipe)	51		
Tails and gallinules	52		
Crows	53		
Woodcock	60		
Morning Dove	65		
Pheasants	70		
Ruffed grouse (Forest partridge)	71	7	ITASCA 31
Spruce grouse	72		
Sharp-tailed grouse	73		
Hungarian (Gray) partridge	74		
Fox squirrel	89		
Gray squirrel	90		
Cottontail rabbit	91		
Jackrabbit	92		
Snowshoe hare	93		
Badger	95		
Coyote (brush wolf)	97		
Gray fox	96		
Raccoon (Mar - Aug 04)	24		
Raccoon (Sept 04-Feb 05)	94		
Red fox (Mar-Aug 04)	25		
Red fox (Sept 04-Feb 05)	95		

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Dear Small Game Hunter: Please complete this questionnaire. Many surveys have been received but we still need yours to get an accurate picture of small game hunting in Minnesota.

You have been selected at random from among Minnesota's small game hunting license buyers to assist us in evaluating the 2004-2005 small game hunting season (**March 2004-February 2005**). We need information to estimate the season's harvest and to help set future small game seasons. Answer only for your Minnesota 2004 hunting experience.

**YOUR RESPONSE IS NEEDED
EVEN IF YOU DID NOT HUNT OR HARVEST SMALL GAME.**

Please fill out the attached questionnaire and mail as soon as possible. No envelope or stamp is necessary; just tear along the perforation and drop into a mailbox.

THANK YOU FOR YOUR COOPERATION

John Guenther, Director
Division of Fish and Wildlife
Department of Natural Resources



Minnesota Department of Natural Resources
Division of Fish and Wildlife
Surveys and Statistical Services
500 Lafayette Road, Box 20
St. Paul, MN 55155



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 171 ST. PAUL, MN

POSTAGE WILL BE PAID BY ADDRESSEE

Department of Natural Resources - Section of Wildlife
STATE OF MINNESOTA
395 JOHN IRELAND BLVD
SAINT PAUL, MN 55101-9799



Figure 1. Sample of Small Game Hunter survey card

Small Game

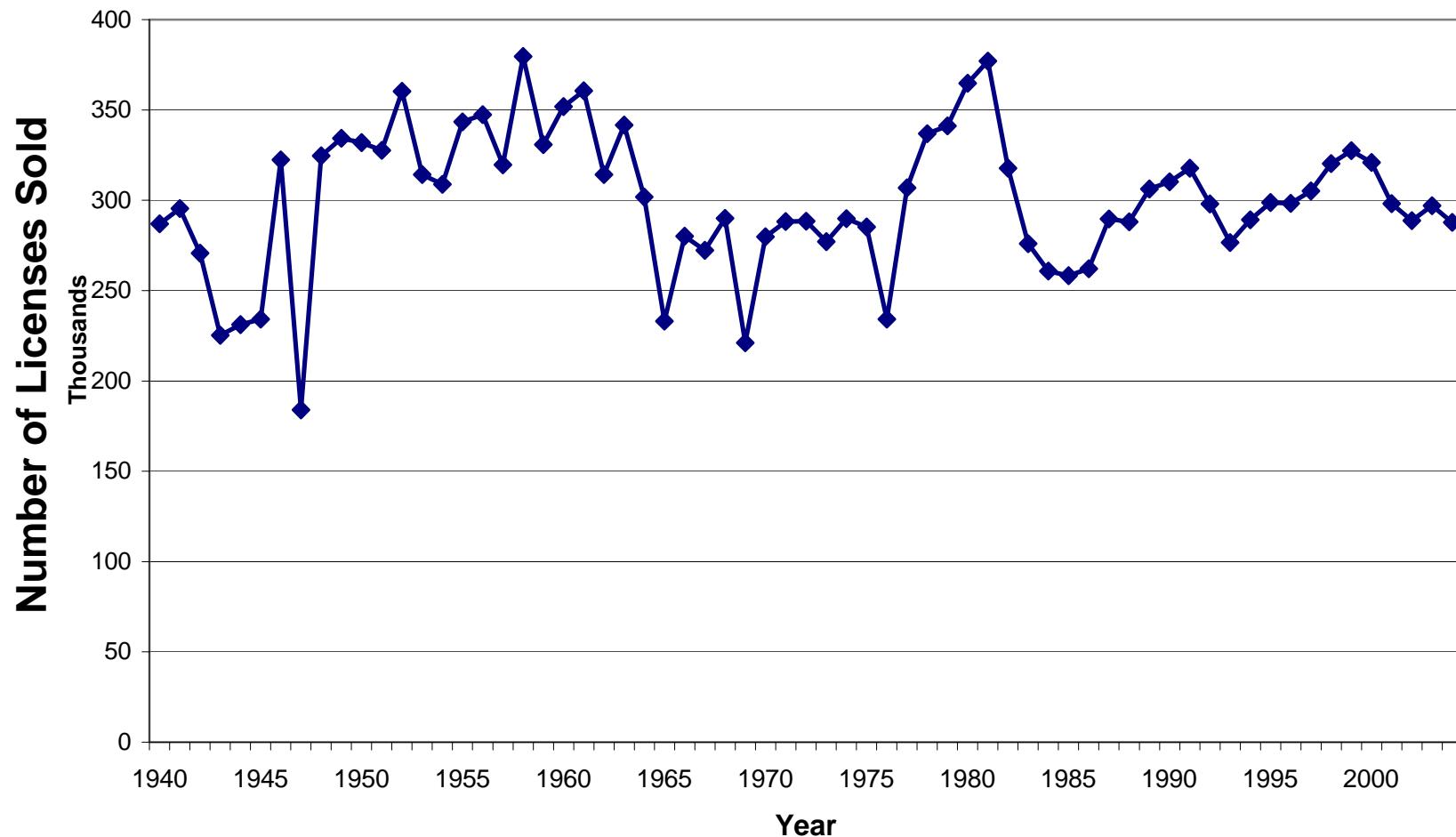


Figure 2. Number of Minnesota small game licenses sold, 1940 – 2004.

Table 3. Estimated number of hunters (thousands) for various species, 1992-93 through 2004-05.

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Ducks	107	109	118	119	114	122	117	122	109	109	112	101	105
Canada goose	61	62	70	73	75	79	77	80	77	76	79	75	75
Other geese	6	9	7	10	6	5	6	5	7	7	6	7	5
American coot	5	6	7	9	6	7	5	6	4	4	4	4	5
Common snipe	3	2	2	2	2	2	2	2	1	2	1	2	2
Rails / gallinules	<1	1	1	1	<1	<1	<1	<1	<1	<1	1	<1	<1
Crow *	11	10	12	15	13	11	11	14	14	11	13	12	12
American woodcock	21	17	21	21	18	17	19	19	16	11	12	13	12
Mourning dove													16
Ring-necked pheasant	105	88	92	96	88	80	88	93	100	85	91	105	104
Ruffed grouse	124	102	107	116	118	127	142	139	121	101	91	94	79
Spruce grouse	13	11	12	14	11	11	11	11	9	9	7	9	7
Sharp-tailed grouse	10	8	7	8	7	8	8	8	10	8	6	7	6
Gray partridge	17	15	14	12	11	8	10	10	8	7	7	8	5
Gray squirrel	32	32	35	35	33	27	30	31	27	26	25	29	23
Fox squirrel	22	23	24	23	20	16	18	20	17	15	15	20	15
Eastern cottontail	24	21	21	23	19	14	19	18	20	17	16	21	19
White-tailed jackrabbit	5	4	4	5	4	3	3	3	2	3	2	3	3
Snowshoe hare	8	5	6	5	4	4	7	7	5	6	6	6	4
Raccoon (Sept 04 - Feb 05)	9	9	10	10	10	9	9	6	6	6	6	6	6
Raccoon [‡] (March 04-Aug 04)			3	5	4	3	4	3	5	4	4	5	3
Red fox (Sept 04-Feb 05)	19	16	15	15	11	9	9	8	10	6	7	7	6
Red fox [‡] (March 04-Aug 04)			3	4	3	2	3	2	2	3	2	2	1
Gray fox	3	3	2	3	n.a.	2	2	2	1	1	1	2	2
Coyote	14	14	11	15	13	10	11	11	16	11	12	15	16
Badger	1	1	1	<1	1	1	<1	<1	1	<1	1	<1	1

*Crow season added in 1989.

[†]Raccoon and red fox season changed to year round beginning May 1994. Mourning dove season added 2004.

Table 4. Estimated take per hunter, for respondents reporting that they hunted a particular species, 1991-92 through 2004-05.

	Estimated take per hunter												2001-02	2002-03	2003-04	2004-05
	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03				
Ducks	8.0	8.1	7.6	8.1	9.7	9.6	9.9	9.5	8.4	8.9	9.1	9.2	9.0	6.9		
Canada geese	2.6	2.5	2.5	2.4	2.5	3.2	2.9	2.8	3.5	3.9	4.0	3.3	3.9	3.8		
Other geese	1.0	0.9	1.1	0.8	0.9	1.4	2.3	1.0	1.2	2.2	1.2	1.9	1.7	1.5		
American coot	2.7	4.7	2.7	3.2	3.1	3.8	4.1	4.7	4.0	2.7	4.5	4.6	2.8	4.0		
Common snipe	3.7	2.9	1.9	1.3	1.6	2.8	2.6	2.9	1.6	1.3	1.3	1.5	1.8	1.1		
Rails/gallinules	7.6	1.7	1.5	1.3	2.3	1.0	0.7	0.5	0.2	3.7	0.6	2.6	0.5	0.3		
Crow *	7.6	6.2	5.0	9.4	8.5	7.3	6.6	9.3	4.4	6.9	7.7	5.6	6.7	5.8		
American woodcock	3.5	4.7	4.0	3.5	3.9	3.2	3.4	3.3	2.8	2.8	2.3	2.4	2.4	3.5		
Mourning dove															6.2	
Ring-necked pheasant	4.6	3.9	3.8	3.5	4.2	3.9	3.1	3.5	3.7	3.7	3.2	3.9	4.9	4.0		
Ruffed grouse	6.6	4.4	2.8	3.5	3.9	4.5	5.2	6.7	4.9	5.1	3.3	2.8	3.8	2.5		
Spruce grouse	2.0	1.7	1.2	1.9	1.8	1.4	2.3	2.4	1.8	2.5	1.1	1.6	2.1	1.3		
Sharp-tailed grouse	2.4	2.0	1.4	1.2	1.3	1.2	1.7	2.6	1.6	1.6	1.2	1.3	1.7	1.7		
Gray partridge	3.8	2.9	2.4	1.8	2.2	2.2	1.9	2.5	1.9	2.1	1.5	1.7	2.8	2.4		
Gray squirrel	4.9	4.6	5.5	5.4	4.9	4.9	4.9	5.0	4.3	5.3	5.6	5.2	6.0	5.7		
Fox squirrel	4.6	4.2	4.5	4.2	4.6	3.8	4.4	3.3	3.5	3.9	4.1	4.5	4.2	4.1		
Eastern cottontail	4.1	3.1	3.6	3.6	4.3	3.4	4.5	4.6	3.2	3.9	3.6	3.3	4.3	4.6		
White-tailed jackrabbit	1.7	2.1	2.4	1.5	1.5	2.6	1.6	2.5	1.9	2.8	2.6	1.6	2.4	2.3		
Snowshoe hare	5.9	3.2	3.2	3.2	2.0	2.3	2.0	3.5	3.1	5.2	3.3	1.9	2.2	1.8		
Raccoon (Sept 04 - Feb 05)	7.5	8.6	8.9	15.9	14.7	21.3	13.8	16.6	10.9	7.6	9.4	10.0	8.5	9.0		
Raccoon [‡] (March 04-Aug 04)				8.0	11.3	24.4	5.1	5.8	6.4	7.8	4.4	5.4	4.7	6.1		
Red fox (Sept 04-Feb 05)	3.6	3.3	3.6	2.8	3.1	3.0	1.4	1.3	1.2	1.9	1.2	1.5	1.8	1.1		
Red fox [‡] (March 04-Aug 04)				1.4	1.5	1.3	0.8	1.2	0.6	0.9	1.5	1.7	0.6	0.6		
Gray fox	1.0	1.3	0.8	0.6	1.0	n.a.	1.3	0.9	0.9	0.7	0.4	0.4	0.4	1.1		
Coyote	2.1	1.5	1.3	1.1	1.8	2.3	1.6	1.3	1.3	1.8	1.1	1.2	1.3	1.1		
Badger	2.2	0.9	0.7	1.4	1.4	2.1	0.9	4.3	1.1	0.8	0.6	1.7	0.7	1.0		

*Crow season added in 1989. [‡]Raccoon and red fox season changed to year round beginning May 1994. Mourning dove season added 2004.

Table 5. Mean Harvest for successful hunters and hunter success rates (%), 1993 - 94 through 2003 - 04.

	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Ducks	9.2 (88.5)	11.0 (88.2)	10.7 (90.2)	11.1 (88.4)	10.8 (87.8)	9.7 (86.2)	10.2 (84.9)	10.6 (85.6)	10.6 (86.7)	10.4 (86.7)	8.6 (81.1)
Canada geese	3.3 (71.9)	3.4 (72.2)	4.3 (75.1)	4.1 (71.2)	4.0 (70.9)	4.7 (74.7)	5.3 (74.2)	5.3 (76.3)	4.6 (72.0)	5.1 (76.0)	5.2 (72.8)
Other geese	2.3 (32.1)	2.4 (39.0)	2.6 (52.2)	4.8 (47.2)	2.3 (44.6)	2.8 (38.2)	4.0 (54.1)	2.8 (43.8)	4.4 (42.5)	2.7 (65.3)	3.3 (45.7)
American coot	4.1 (77.5)	4.4 (69.4)	5.1 (75.0)	4.6 (89.2)	6.0 (78.8)	5.5 (73.0)	4.2 (64.7)	7.5 (60.4)	6.4 (71.2)	3.7 (76.9)	5.5 (73.1)
Common snipe	2.2 (61.9)	2.5 (65.2)	3.2 (89.5)	3.1 (83.3)	3.5 (83.3)	2.3 (66.7)	1.5 (85.0)	2.4 (52.9)	2.6 (60.0)	2.3 (78.9)	1.6 (68.0)
Rails / gallinules	2.2 (60.0)	4.7 (50.0)	2.0 (50.0)	2.0 (33.3)	1.0 (50.0)	1.0 (20.0)	3.7 (100.0)	1.5 (40.0)	3.8 (66.7)	1.0 (50.0)	1.0 (33.3)
Crow	10.5 (89.4)	9.0 (93.9)	7.9 (91.8)	7.1 (93.2)	10.6 (87.6)	5.2 (85.5)	8.2 (84.0)	8.6 (89.4)	6.3 (89.0)	7.9 (85.3)	6.4 (90.8)
American woodcock	4.7 (74.5)	5.0 (76.8)	4.3 (73.5)	4.6 (73.5)	3.7 (87.3)	3.8 (74.6)	3.6 (80.3)	3.4 (68.3)	3.6 (65.6)	3.3 (71.8)	5.3 (64.6)
Mourning dove											7.9 (78.9)
Ring-necked pheasant	5.0 (68.9)	5.7 (73.6)	5.4 (71.2)	4.5 (68.6)	5.0 (70.9)	5.2 (69.8)	5.2 (71.9)	4.7 (66.4)	5.5 (71.7)	6.3 (77.2)	5.7 (70.0)
Ruffed grouse	4.9 (70.9)	5.3 (74.0)	6.0 (75.4)	6.6 (77.9)	8.0 (82.9)	6.3 (78.9)	6.4 (80.7)	4.8 (68.5)	4.3 (63.8)	5.1 (73.5)	3.9 (63.3)
Spruce grouse	3.3 (56.6)	3.2 (57.0)	2.4 (59.1)	3.4 (67.8)	3.4 (68.8)	2.9 (62.7)	4.1 (60.7)	2.3 (47.2)	3.4 (48.0)	3.3 (62.9)	2.3 (54.2)
Sharp-tailed grouse	3.5 (34.5)	2.7 (47.1)	3.1 (39.7)	3.5 (48.2)	4.4 (60.2)	3.4 (48.2)	3.1 (52.9)	2.4 (49.5)	3.5 (38.8)	3.3 (52.2)	3.1 (54.3)
Gray partridge	3.2 (54.8)	3.4 (62.9)	3.3 (66.7)	3.3 (57.5)	3.8 (64.2)	3.1 (62.4)	3.7 (58.6)	2.5 (58.3)	2.8 (59.1)	4.1 (68.9)	3.6 (65.7)
Gray squirrel	6.2 (87.1)	5.6 (87.9)	5.8 (84.3)	5.8 (84.0)	5.8 (86.9)	5.1 (84.7)	6.7 (84.9)	6.6 (84.4)	6.1 (86.2)	7.0 (85.3)	6.9 (82.5)
Fox squirrel	5.1 (82.6)	5.5 (83.8)	4.7 (80.1)	5.3 (82.9)	3.9 (82.7)	4.5 (79.0)	4.8 (80.5)	5.3 (77.7)	5.9 (76.4)	5.1 (82.6)	4.8 (85.1)
Eastern cottontail	4.5 (79.1)	5.2 (83.5)	4.3 (79.9)	5.7 (80.0)	5.6 (83.1)	4.0 (80.0)	4.8 (82.5)	4.7 (77.7)	4.7 (70.5)	5.2 (84.2)	5.8 (79.6)
White-tailed jackrabbit	2.4 (61.5)	2.5 (59.3)	4.0 (65.1)	2.5 (65.5)	3.2 (78.6)	2.6 (72.7)	4.1 (68.2)	5.2 (50.0)	2.7 (60.6)	3.3 (72.5)	3.0 (75.0)
Snowshoe hare	5.4 (59.7)	3.4 (59.3)	3.7 (60.4)	2.8 (70.5)	4.7 (75.4)	3.9 (79.4)	6.3 (82.6)	4.4 (75.0)	2.9 (67.1)	3.5 (60.8)	3.0 (61.4)
Raccoon (Sept 04-Feb 05)	16.3 (97.5)	16.0 (92.0)	22.5 (94.4)	14.8 (92.6)	18.1 (91.8)	11.4 (95.1)	8.0 (94.8)	10.0 (93.6)	11.6 (86.3)	9.6 (88.5)	9.9 (91.6)
Raccoon [‡] (March 04-Aug 04)	9.1 (88.6)	12.2 (92.5)	29.6 (82.2)	6.3 (80.0)	6.2 (92.5)	6.6 (96.2)	8.2 (95.1)	4.9 (90.2)	5.9 (91.7)	5.6 (85.2)	6.7 (90.9)
Red fox (Sept 04-Feb 05)	4.4 (64.7)	4.8 (64.5)	5.3 (57.1)	2.4 (59.8)	2.6 (52.7)	2.4 (51.9)	3.4 (56.7)	2.7 (44.9)	3.1 (49.0)	3.5 (51.0)	2.8 (38.2)
Red fox [‡] (March 04-Aug 04)	3.0 (46.9)	2.3 (65.1)	2.4 (51.6)	1.6 (52.2)	1.8 (65.4)	1.3 (47.4)	1.9 (47.1)	2.8 (54.5)	3.6 (46.7)	1.1 (51.7)	1.4 (44.4)
Gray fox	2.5 (23.1)	1.8 (58.1)	n.a.	2.0 (62.5)	1.6 (53.3)	2.3 (40.0)	2.0 (33.3)	1.4 (26.3)	1.8 (23.5)	1.3 (30.0)	2.6 (40.9)
Coyote	2.4 (48.1)	2.9 (61.1)	4.1 (55.9)	2.8 (57.0)	2.9 (45.0)	2.5 (49.1)	3.4 (53.9)	2.4 (47.3)	3.2 (36.6)	2.7 (48.8)	2.5 (45.3)
Badger	1.7 (85.7)	1.8 (80.0)	2.1 (100.0)	1.0 (85.7)	6.5 (66.7)	1.3 (87.5)	1.0 (83.3)	1.0 (60.0)	2.8 (60.0)	1.0 (66.7)	1.2 (85.7)

[‡] Raccoon and red fox season changed to year round beginning May 1994. Mourning dove season added 2004.

Table 6. Statewide small game hunting license sales and estimated hunter harvest, 1993-94 through 2004-05.

	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Small game license sales ^a	276,625	289,189	298,425	298,337	305,186	320,308	327,431	320,862	298,055	288,729	296,939	287,725
Federal duck stamp sales	110,738	149,428	132,546	132,738	138,331	134,098	134,138	135,884	140,980 ^e	144,851 ^e		
State duck stamp sales	104,839	116,346	122,092	122,634	126,009	126,488	128,245	121,709	118,590	119,677	118,757	114,003
Pheasant stamp sales	94,443	104,621	105,093	95,866	85,093	99,664	106,945	114,440	97,665	102,097	121,456	114,653
Estimated harvest ^b (thousands)												
Ducks ^c	824	955	1,162	1,098	1,206	1,119	1,021	969	990	1,024	914	727
Canada geese ^c	156	166	180	241	230	218	285	301	308	257	290	284
Other geese ^c	9	6	9	8	11	6	6	15	8	11	13	8
American coot ^c	15	22	28	23	29	25	25	10	17	20	11	20
Common snipe	4	2	3	5	4	5	3	3	2	3	3	2
Rails / gallinules	1	1	1	<1	<1	<1	<1	1	<1	2	<1	<1
Crow	51	114	130	96	74	106	60	96	88	72	82	72
American woodcock	68	74	82	58	58	63	54	45	27	28	30	41
Mourning dove ^f												97
Ring-necked pheasant	332	319	398	341	248	309	339	375	267	358	511	420
Ruffed grouse	288	371	457	533	654	946	685	619	332	249	351	194
Spruce grouse	12	23	25	16	25	27	19	23	9	12	18	9
Sharp-tailed grouse	11	9	10	8	13	22	14	16	10	9	12	10
Gray partridge	35	26	26	24	16	24	19	17	10	11	22	13
Gray squirrel	178	187	169	158	131	149	132	140	146	134	175	133
Fox squirrel	105	99	105	75	68	57	71	65	63	67	85	62
Eastern cottontail	75	77	100	65	65	89	59	78	63	52	93	87
White-tailed jack rabbit	9	7	7	10	4	7	6	7	8	4	7	7
Snowshoe hare	16	19	11	10	8	25	21	27	22	11	12	8
Raccoon (Sept 04-Feb 05)	79	163	155	207	124	143	65	49	59	60	50	57
Raccoon ^d (Mar 04-Aug 05)		24	55	99	17	2	16	36	18	19	22	20
Red fox (Sept 04-Feb 05)	63	42	48	33	13	13	10	19	7	11	13	6
Red fox ^d (Mar 04-Aug 05)		4	6	4	2	3	1	2	4	4	1	1
Gray fox	2	1	3	n.a.	3	1	2	1	1	1	1	2
Coyote	18	13	26	30	16	14	13	29	12	14	20	18
Badger	<1	1	1	1	1	1	1	1	<1	1	<1	<1

Harvest estimates in this table, and the number of hunters and mean take per hunter in Table 32, are calculated from different questions on the survey form. The sample used in calculations differs from one estimator to the next. This is because some respondents give specific answers to one question but not to a related one. A formula is used to calculate the total estimated take for each species which appears in this table. In most years the formula produces results rather close to those obtained by multiplying the average take per hunter times the number of hunters. However, in other years (e.g., 1985) results of the two methods are quite divergent, perhaps as a result of an unusual sample. This is being investigated further, and as a result, numbers may change somewhat in future reports. The most current report of survey findings will have the best data available at that time. Beginning in 1989-90 this table was changed from Resident harvest estimates to Statewide harvest estimates, which includes non-resident harvest estimates.

^a Duplicate licenses not included.

^b Estimates based upon response of hunters to questionnaires.

^c U.S. Fish and Wildlife Service HIP harvest estimates for 2003 are:

U.S. Fish and Wildlife Service harvest estimates for 2005 are:

^d Raccoon and red fox seasons changed to year round beginning May, 1994.

^e Federal duck stamps sold have not been audited for non-hunting stamp purchasers. ^f Mourning dove season added 2004.

Table 7. Mail survey results of nonresident small game hunters, 1991-92 through 2003-04.

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Nonresident licenses issued^a	4,718	3,809	4,435	4,993	5,488	6,361	7,155	7,572	7,001	5,843	5,852	6,291	6,385
Questionnaires:													
Number mailed	170	229	182	205	51	269	200	199	98	124	130	123	182
Number not delivered	8	21	7	14	4	18	17	16	6	9	9	17	13
Number (percent) returned	32 (82)	149 (72)	128 (73)	140 (73)	32 (68)	183 (73)	117 (64)	136 (74)	56 (61)	77 (67)	75 (66)	68 (64)	114 (67)
Estimated nonresidents and (percent) of all nonresidents hunting:													
Ducks	1,751 (37)	1,789 (47)	1,975 (45)	2,354 (47)	1,209 (19)	2,331 (37)	2,874 (40)	2,505 (33)	2,375 (34)	2,727 (47)	2,263 (39)	2,498 (40)	2,394 (37)
Canada goose	1,101 (21)	792 (21)	1,005 (23)	1,248 (25)	686 (13)	1,113 (17)	1,468 (20)	1,225 (16)	1,500 (21)	1,169 (20)	1,092 (19)	1,388 (24)	1,368 (21)
Ruffed grouse	1,465 (31)	895 (24)	1,421 (32)	1,534 (31)	2,744 (50)	2,157 (34)	3,608 (50)	3,508 (46)	3,000 (43)	1,169 (20)	2,029 (35)	2,313 (40)	1,824 (29)
Ring-necked pheasant	894 (19)	741 (20)	832 (19)	820 (16)	515 (9)	731 (11)	612 (8)	947 (13)	625 (9)	935 (16)	1,404 (24)	2,128 (36)	2,679 (42)
Raccoon ^b	0 (0) ^c	26 (1)	0 (0) ^c *	107 (2)*	172 (3)	35 (1)	0 (0) ^c	56 (1)	250 (4)	0 (0)	0 (0)	0 (0)	0 (0)
Estimated nonresident take:													
Ducks	17,442	13,574	15,696	26,713	6,346	15,967	26,663	26,391	18,253	42,225	17,556	17,855	19,269
Canada goose	3,610	2,122	2,287	4,173	1,544	4,905	4,587	6,960	5,001	13,400	5,852	5,736	6,214
Ruffed grouse	10,758	4,985	7,242	9,415	23,153	16,072	27,886	23,384	24,003	6,622	9,207	9,437	7,924
Ring-necked pheasant	4,110	3,042	4,366	3,638	1,887	2,505	1,712	4,844	4,001	3,740	7,647	9,344	11,174
Raccoon	0	26	0	3,638	8,061	70	0	724	3,375	0	0	0	0

^a Excludes duplicate licenses and nonresident shooting preserve licenses.

^b Nonresident raccoon hunters were required to purchase a nonresident raccoon hunting license for the first time in 1979 in addition to the nonresident small game license. The initial season bag limit of 8 was increased to 12 in 1983 and to 20 in 1985.

^c In 1998, 2001, 2002 and 2003 small game hunter survey no non-residents reported hunting/harvesting raccoons. * Non-resident raccoon hunting license was not required for 1994 and 1995.

Raccoon take per hunter

	Resident	Nonresident	Number of nonresident raccoon licenses
1997	15	2	58
1998 ^c	18	0	56
1999	11	13	48
2000	8	13	51
2001	10	0	48
2002	11	0	46
2003	10	0	44
2004	8	0	46

The following information was taken from: U.S. Fish and Wildlife Service. 2005 Migratory bird harvest information, 2004: preliminary estimates. U.S. Department of the Interior, Washington, D.C. U.S.A. The entire report is available on-line at <http://migratorybirds.fws.gov>

Table 1. Species composition of the Minnesota waterfowl harvest, 2003 and 2004. (from: Richkus, K.D, Moore, M.T., Padding, P.I., Martin, E.M., Williams, S.S., and Spriggs, H.L. Migratory Bird Harvest Information, 2004: preliminary estimates. U.S. Fish and Wildlife Service, Division of Migratory Bird Management, Branch of Harvest Surveys, Laurel, Maryland. July 2005. 67 pp).**Note:** All hunter activity and harvest estimates are preliminary, pending final counts of the number of migratory bird hunters in each state and complete audits of all survey response data.

Species	Minnesota Harvest					Mississippi Flyway Harvest		
	2003	% of Harvest	2004	% of Harvest	Percent change in Harvest 03-04	2003	2004	Percent change Harvest 03-04
Mallard	303,995	34.37	179,277	26.23	- 41	2,571,468	2,199,931	- 14
Domestic mallard	1,666	0.19	838	0.12	- 50	6,018	5,015	- 17
American black duck	833	0.09	279	0.04	- 66	33,971	35,692	+ 5
Black x mallard	416	0.05	558	0.08	+ 34	5,316	2,651	- 50
Gadwall	47,057	5.32	31,276	4.57	- 33	858,504	654,488	- 24
American wigeon	15,408	1.74	24,574	3.59	+ 59	124,228	149,793	+ 21
Green-winged teal	100,776	11.39	44,959	6.58	- 55	724,851	498,019	- 31
Blue-winged /cinnamon teal	92,448	10.45	106,114	15.52	+ 15	611,188	365,488	- 40
Northern shoveler	18,323	2.07	17,313	2.53	- 5	209,872	158,905	- 24
Northern pintail	18,323	2.07	14,242	2.08	- 22	123,318	90,542	- 27
Wood duck	129,926	14.68	127,616	18.67	- 2	779,488	729,608	- 6
Redhead	11,660	1.32	9,494	1.39	- 19	37,828	35,334	- 7
Canvasback	2,915	0.33	4,747	0.69	+ 63	11,259	10,824	- 4
Greater scaup	416	0.05	3,072	0.45	+638	14,469	28,056	+ 94
Lesser scaup	34,147	3.86	12,008	1.76	- 65	153,617	108,534	- 29
Ring-necked duck	72,459	8.19	75,118	10.99	+ 4	239,855	233,979	- 2
Goldeneye	9,578	1.08	9,494	1.39	- 1	32,612	30,290	- 7
Bufflehead	10,411	1.18	8,936	1.31	- 14	89,254	59,789	- 33
Ruddy duck	833	0.09	1,955	0.28	+135	13,202	5,227	- 60
Scoters	833	0.09	838	0.12	+ 1	5,033	4,286	- 15
Hooded merganser	9,578	1.08	9,215	1.35	- 4	55,608	47,469	- 15
Other mergansers	2,499	.028	1,117	0.16	- 55	9,844	8,808	- 10
Total Duck Harvest (retrieved kill)	884,500 ± 10%		683,600 ± 10%		- 23	6,759,100 ± 9%	5,505,500 ± 5%	- 18

^a Sum of all species does not equal total because of rounding error. ^b No percentage change.

Table 2. Top 10 states in number of **adult duck hunters**, 2004, and number of hunter-days and retrieved duck kill, in each (from: Richkus, K.D., Moore, M.T., Padding, P.I., Martin, E.M., Williams, S.S., and Spriggs, H.L. Migratory Bird Harvest Information, 2004: preliminary estimates. U.S. Fish and Wildlife Service, Division of Migratory Bird Management, Branch of Harvest Surveys, Laurel, Maryland. July 2005. 67 pp). **Note:** All hunter activity and harvest estimates are preliminary, pending final counts of the number of migratory bird hunters in each state, and complete audits of all survey response data.

State	Number of active duck hunters	Duck hunter days afield	Total duck harvest	Seasonal duck harvest per hunter
Minnesota	89,600 ± 7%	595,600 ± 12%	683,600 ± 10%	7.6 ± 13%
Texas	84,900 ± 20%	497,000 ± 42%	909,600 ± 40%	10.7 ± 45%
Arkansas	67,800 ± 8%	538,000 ± 11%	1,127,400 ± 17	16.6 ± 15%
Wisconsin	67,400 ± 8%	447,100 ± 9%	429,900 ± 10%	6.4 ± 13%
California	52,900 ± 11%	554,600 ± 16%	1,480,700 ± 21%	28.0 ± 23%
Louisiana	52,200 ± 10%	449,500 ± 14%	822,000 ± 13%	15.7 ± 16%
Michigan	43,100 ± 9%	270,600 ± 10%	333,000 ± 15%	7.7 ± 17%
Illinois	37,300 ± 8%	314,100 ± 11%	320,500 ± 12%	8.6 ± 14%
North Dakota	39,900 ± 5%	194,200 ± 8%	541,900 ± 8%	14.7 ± 9%
Missouri	28,500 ± 13%	213,600 ± 18%	329,100 ± 19%	11.5 ± 23%
Mississippi Flyway		3,857,300 ± 4%	5,505,500 ± 5%	
United States		7,326,100 ± 4%	12,312,200 ± 5%	

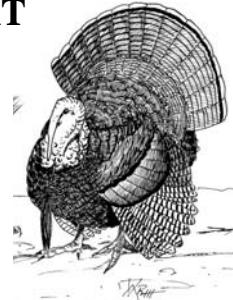
Table 3. Top 10 states in number of **adult goose hunters**, 2004, and number of hunter-days and retrieved goose kill, in each (from: Richkus, K.D, Moore, M.T., Padding, P.I., Martin, E.M., Williams, S.S., and Spriggs, H.L. Migratory Bird Harvest Information, 2004: preliminary estimates. U.S. Fish and Wildlife Service, Division of Migratory Bird Management, Branch of Harvest Surveys, Laurel, Maryland. July 2005. 67 pp). **Note:** All hunter activity and harvest estimates are preliminary, pending final counts of the number of migratory bird hunters in each state, and complete audits of all survey response data.

State	Number of active goose hunters	Goose hunter days afield	Total goose harvest	Seasonal goose harvest per hunter
Minnesota	72,100 ± 7%	470,600 ± 11%	235,500 ± 13%	3.3 ± 15%
Wisconsin	51,100 ± 9%	314,400 ± 12%	97,300 ± 16%	1.9 ± 18%
Texas	47,400 ± 23%	140,600 ± 25%	248,100 ± 27%	5.2 ± 36%
Michigan	34,300 ± 9%	177,200 ± 12%	130,000 ± 15%	3.8 ± 17%
Pennsylvania	32,500 ± 11%	180,800 ± 14%	172,000 ± 17%	5.3 ± 20%
California	38,200 ± 11%	273,000 ± 15%	130,900 ± 14%	3.4 ± 18%
Illinois	27,900 ± 10%	217,700 ± 14%	103,900 ± 17%	3.7 ± 19%
North Dakota	24,700 ± 6%	123,100 ± 9%	138,200 ± 13%	5.6 ± 14%
Ohio	27,000 ± 14%	160,000 ± 18%	96,000 ± 17%	3.6 ± 22%
Maryland	24,600 ± 7%	136,300 ± 10%	148,200 ± 11%	6.0 ± 13%
Mississippi Flyway		2,086,800 ± 5%	1,235,600 ± 7%	
United States ^b		4,202,000 ± 3%	3,189,700 ± 4%	

^b. Goose hunter statistics do not include brant hunter statistics for coastal states with brant seasons: Connecticut, Delaware, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Rhode Island, Virginia, California, Oregon, Washington, and Alaska.

2004 FALL WILD TURKEY HARVEST REPORT

Sharon Goetz
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INTRODUCTION

In Minnesota, monitoring wild turkey harvest is an important component of population management, which includes setting permit levels for subsequent seasons. Wild turkey populations, permit levels available for the fall season, and harvest have all increased since Minnesota's first fall hunting season in 1990. Fall harvest is affected by wild turkey population size, by harvest pressure, and weather conditions during the fall hunting season.

METHODS

The 2004 fall turkey season took place from 13 October through 24 October (2, 5-day periods). There were 4,380 permits available in the 24 permit areas open to fall hunting, with a total of 5,878 applicants (Table 1). Available permits increased by 510 permits from 2003 (3,870). One new permit area was opened to fall hunting (PA 449). Spring turkey hunters are required to register their bird at a designated registration station within 24 hours of harvest. During registration sex, age, and harvest date are recorded.

RESULTS

This year's harvest of 758 was down from 2003 (889), but still above the 5-year average of 718 (Table 1). The highest harvest occurred in Permit Area 341 with a total of 89 turkeys registered (Table 2, Figure 1). Hunter success rate was 26% overall, which is below the long-term average of 32%. Fifty-one percent of the harvest occurred during Season A (October 13-17), and 49% during Season B (October 20-24).

The numbers of juvenile versus adult birds were similar across sex (Table 3). Females comprised 50% of the overall reported harvest. Juveniles made up 23% of the harvest (Table 4), this is lower than 2003 (32%). In the newest permit area open to hunting (PA 449), 5 adult males, 1 adult female, and 1 sex/age unknown turkey were registered. Harvest age ratios are biased by hunter preference for taking adult gobblers. Also, because age data are hunter reported, some juvenile birds are likely misclassified as adults (i.e., it is assumed that hunters are more likely to report shooting an adult).

Table 1. Fall wild turkey applications, permits, harvest and adjusted hunter success rates in Minnesota, 1990-2004.

Year	# Applicants	# Permits Available	# Permits Issued	# Turkeys Registered	Hunter Success (%) ¹
1990	4,522	1,000	951	326	38
1991	2,990	2,200	2,020	552	30
1992	2,782	2,200	2,028	588	32
1993	3,186	2,400	2,094	605	32
1994	3,124	2,500	2,106	601	32
1995	3,685	2,500	2,125	648	34
1996	4,453	2,500	2,289	685	33
1997	4,574	2,580	2,378	698	33
1998	4,526	2,710	2,483	828	37
1999	5,354	2,890	2,644	865	36
2000	5,263	3,090	2,484	735	33
2001	4,501	2,870	2,262	629	31
2002	5,180	3,790	2,945	594	22
2003	5,264	3,870	2,977	889	33
2004	5,878	4,380	3,277	758	26

¹ Success rates adjusted using a 10% non-participation rate based on hunter survey data.

Table 2. Fall wild turkey harvest and hunter success rates by permit area, 2004.

Permit Area	# Permits Available	# Permits Issued	# Turkeys Registered	Hunter Success (%) ¹
228	60	52	14	27
236	80	61	14	23
337	90	64	18	28
338	140	105	20	19
339	140	106	21	20
341	500	412	89	22
342	450	320	61	19
343	130	102	38	37
344	200	168	29	17
345	250	149	37	25
346	390	247	59	24
347	150	116	37	32
348	300	226	56	25
349	560	411	80	19
442	250	209	53	25
443	100	73	15	21
448	10	9	3	33
449	10	12	7	58
461	160	123	38	31
462	160	119	27	23
464	40	30	7	23
465	60	42	9	21
466	80	64	17	27
467	70	57	9	16
Total	4,380	3,277	758	23

¹ Success rates not adjusted for non-participants.

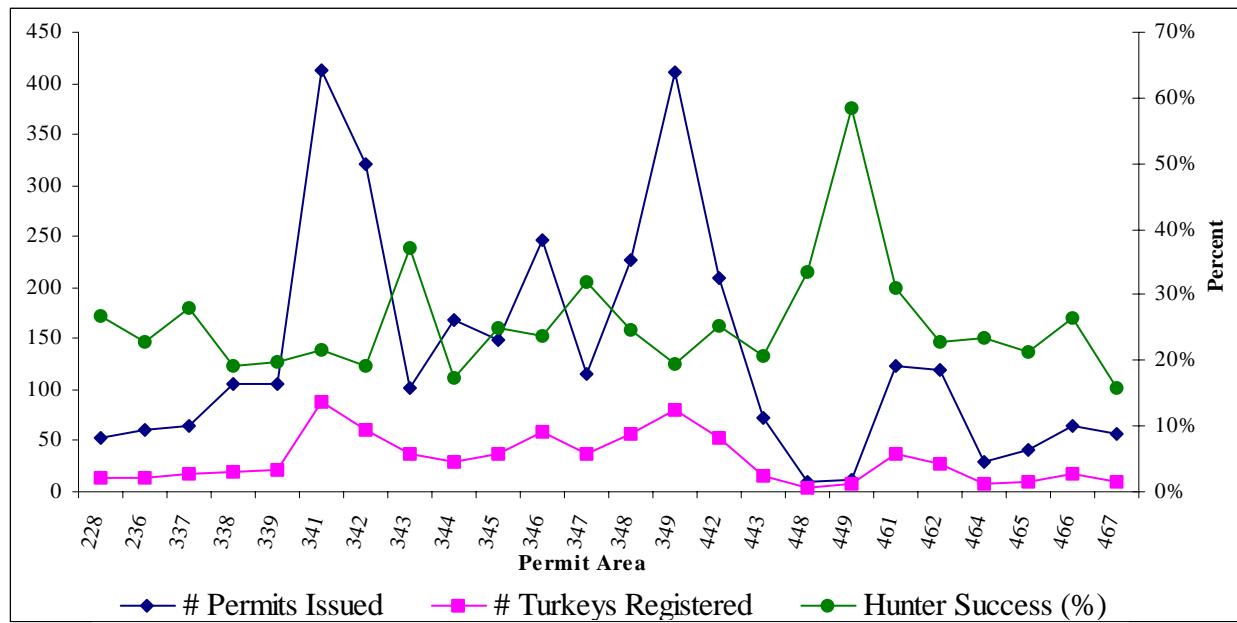
Table 3. Age and sex structure of fall wild turkey harvest by permit area, 2004.

Permit Area	Male		Female		Unknown	Total
	Juvenile	Adult	Juvenile	Adult		
228	0	3	1	10		14
236	3	8	1	2		14
337	1	9	0	8		18
338	2	11	0	7		20
339	1	7	4	8	1	21
341	7	32	9	35	6	89
342	8	12	10	31		61
343	3	19	2	14		38
344	3	7	2	17		29
345	0	12	5	20		37
346	7	20	6	26		59
347	5	20	2	10		37
348	13	17	7	19		56
349	13	26	12	29		80
442	3	24	4	21	1	53
443	1	1	5	7	1	15
448	0	1	0	2		3
449	0	5	0	1	1	7
461	10	16	5	7		38
462	1	9	4	10	3	27
464	0	4	1	2		7
465	1	4	1	3		9
466	7	5	2	3		17
467	1	4	0	4		9
Total	90	276	83	296	13	758

Table 4. Age and sex structure of fall wild turkey harvest in Minnesota, 1990-2004.

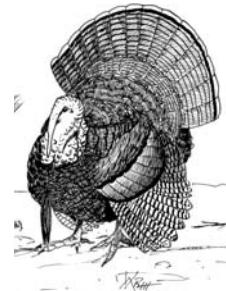
Year	Male			Female			Unknown Age/Sex	Total
	Juvenile	Adult	Unknown	Juvenile	Adult	Unknown		
1990	67 (21%)	83 (25%)		85 (26%)	91 (28%)			326
1991	121 (22%)	80 (15%)		211 (38%)	140 (25%)			552
1992	120 (20%)	86 (15%)		208 (35%)	174 (30%)			588
1993	110 (18%)	112 (19%)		184 (30%)	196 (32%)		3(<1%)	605
1994	105 (17%)	83 (14%)		210 (35%)	203 (34%)			601
1995	131 (20%)	136 (21%)		194 (30%)	187 (29%)			648
1996	96 (14%)	141 (20%)		224 (33%)	224 (33%)			685
1997	115 (16%)	130 (19%)		215 (31%)	238 (34%)			698
1998	152 (18%)	139 (17%)		261 (32%)	274 (33%)		2(<1%)	828
1999	141 (16%)	213 (25%)		253 (29%)	258 (30%)			865
2000	101 (14%)	175 (24%)		206 (28%)	253 (34%)			735
2001	81 (13%)	119 (19%)		178 (28%)	251 (40%)			629
2002	94 (16%)	109 (18%)	2 (<1%)	169 (28%)	205 (35%)	3 (<1%)	12 (2%)	594
2003	121 (14%)	237 (27%)		164 (18%)	347 (39%)	1 (<1%)	19 (2%)	889
2004	90 (12%)	276 (36%)		83 (11%)	296 (39%)		13 (2%)	758

Figure 1. Total harvest, permits issued, and hunter success rate for the 2004 fall wild turkey hunting season in Minnesota.



2005 SPRING TURKEY HARVEST REPORT

Sharon Goetz, Bryan Abel, and Allison Boies
Farmland Wildlife Populations & Research Group



INTRODUCTION

In Minnesota, monitoring wild turkey harvest is an important component of population management, which includes setting permit levels for subsequent seasons. Wild turkey populations, permit levels available for the spring season, and harvest have all increased substantially since Minnesota's first modern hunting season in 1978. Spring harvest is affected by wild turkey population size, by harvest pressure, and weather conditions during the spring hunting season.

METHODS

Spring turkey hunting opportunities are now available in approximately half of Minnesota; 6 new permit areas (PA; 222, 413, 424, 447, 456, and 458) were opened in 2005 (Figure 1). The 2005 spring turkey season took place from 13 April through 26 May (6 5-day time periods and 2 7-day time periods). An archery permit was offered the last 2 times periods in any permit area with at least 50 permits per time period. Spring turkey hunters are required to register their bird at a designated registration station within 24 hours of harvest. During registration sex, age, and harvest date are recorded.

RESULTS

A total of 49,181 applications were received for the 31,784 available permits (Table 1). The chance of being drawn for a permit varies by permit area (PA) and time period selected by the hunter (Table 2). There were 27,638 total regular permits and 2,210 archery permits issued. Surplus permits that were sold after the initial lottery drawing accounted for 7% (1,869) of the sales (Figure 2).

A total of 7,800 turkeys were registered in spring 2005 compared to 8,434 in 2004 (Table 1, Figure 3). Overall hunter success was 28.2%, slightly lower than last year (33.4%) and the 5-year average of 30.7% (Table 3). The highest harvest occurred in PA 349 where 653 turkeys were registered (Table 3). Most PAs (52%) showed increased ($n = 33$) or identical ($n = 1$) harvests from 2004. Hunter success by PA ranged from 2.9% (newly split PA 456) to 61.1% (PA 449; Table 3). Hunters in the first 2 time periods had the highest success rates (42.7% and 40.2%, respectively), with lower success rates in subsequent time periods, following the 5-year trend (Table 4, Figure 4).

Juveniles made up 10% of the harvest (Table 5, Figure 5), which is lower than the past 4 years (20% in 2004, 23% in 2003, and 30% in 2002). Wisconsin reported similar juvenile harvest of 12% for spring 2005 (22% in 2004, 24% in 2003 and 28% in 2002). Harvest age ratios are biased by hunter preference for taking adult gobblers. Also, because age data are hunter reported, some juvenile birds are likely misclassified as adults (i.e., it is assumed that hunters are more likely to report shooting an adult).

Total huntable area (forest cover buffered by 50 meters, with non-huntable areas removed) is used to calculate harvest density (Table 6). The number of turkeys harvested per square mile of huntable habitat ranged from 0.04 (PA 157 and 159) to 4.36 (PA 343) with an average of 0.96 statewide (Table 6).

No new turkey hunting accidents were reported during spring 2005. Twelve spring hunting accidents have been reported since 1978, none of which has been fatal.

DISCUSSION

Spring 2005 wild turkey harvest decreased slightly from spring 2004. Harvest in the early time periods was on track for harvest comparable to 2004. However, wet and cold weather in May impacted harvest in the last 4 time periods.

The 2005 turkey harvest data were obtained primarily from electronic licensing system (ELS) registration stations. One factor that complicates harvest reporting is the continued presence of a few stations that registered birds using hand-tally data sheets. A goal is to convert all turkey registration to ELS in the future, which will streamline the harvest reporting process.

Table 1. Spring and fall wild turkey applications, permits, and harvest in Minnesota, 1978-2005.

Year	Spring Applications	Spring Permits Available	Spring Permits Issued	% of Available Issued	Spring Harvest	% Spring Hunter Success ^a	Fall Applications	Fall Permits Available	Fall Harvest
1978	10,740	420	411	97.9	94	22.9	-	-	-
1979	11,116	840	827	98.5	116	14.0	-	-	-
1980	9,613	1,200	1,191	99.3	98	8.2	-	-	-
1981	8,398	1,500	1,437	95.8	113	7.9	-	-	-
1982	7,223	2,000	1,992	99.6	106	5.3	-	-	-
1983	8,153	2,100	2,079	99.0	116	5.6	-	-	-
1984	7,123	3,000	2,837	94.6	178	6.3	-	-	-
1985	5,662	2,750	2,449	89.1	323	13.2	-	-	-
1986	5,715	2,500	2,251	90.0	333	14.8	-	-	-
1987	6,361	2,700	2,520	93.3	520	20.6	-	-	-
1988	8,402	3,000	2,994	99.8	674	22.5	-	-	-
1989	13,007	4,000	3,821	95.5	930	24.3	-	-	-
1990	14,326	6,600	6,126	92.8	1,709	27.9	4,522	1,000	326
1991	15,918	9,170	8,607	93.9	1,724	20.0	2,990	2,200	552
1992	16,401	9,310	9,051	97.2	1,691	18.7	2,782	2,200	588
1993	17,800	9,625	9,265	96.3	2,082	22.5	3,186	2,400	605
1994	19,853	9,940	9,479	95.4	1,975	20.8	3,124	2,500	601
1995	21,345	9,975	9,550	95.7	2,339	24.5	3,685	2,500	648
1996	23,757	12,131	10,983	90.5	2,841	25.9	4,453	2,500	685
1997	25,958	12,530	11,610	92.7	3,302	28.4	4,574	2,580	698
1998	29,727	14,035	13,229	94.3	4,361	33.0	4,526	2,710	828
1999	39,957	18,360	16,387	89.3	5,132	31.3	5,354	2,890	865
2000	42,022	20,160	18,661	92.6	6,154	33.0	5,263	3,090	735
2001	41,048	22,936	21,404	93.3	6,383	29.8	4,501	2,870	629
2002	42,415	24,136	22,607	93.7	6,516	28.8	5,180	3,790	594
2003	44,415	25,016	22,770	91.0	7,666	33.7	5,264	3,870	889
2004	48,059	27,600	25,261	91.5	8,434	33.4	5,878	4,380	758
2005	49,181	31,748	27,638	87.1	7,800	28.2			

^a Success rate not adjusted for non-participants.

Table 2. Number of regular (non-landowner) applicants, permits available, and chance of being drawn in the regular spring turkey lottery by permit area and time period in Minnesota, 2005.

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
157	A	36	5	1	4	11%
	B	16	5	1	4	25%
	C	38	5	0	5	13%
	D	16	5	1	4	25%
	E	12	5	0	5	42%
	F	6	5	0	5	83%
	G	8	5	0	5	63%
	H	4	5	1	4	100%
159	A	34	5	1	4	12%
	B	34	5	1	4	12%
	C	44	5	1	4	9%
	D	30	5	0	5	17%
	E	14	5	1	4	29%
	F	10	5	1	4	40%
	G	9	5	1	4	44%
	H	8	5	0	5	63%
221	A	87	20	4	16	18%
	B	53	20	4	16	30%
	C	122	20	3	17	14%
	D	58	20	3	17	29%
	E	28	20	0	20	71%
	F	24	20	0	20	83%
	G	15	20	3	17	100%
	H	11	20	0	20	100%
222	A	26	5	1	4	15%
	B	9	5	1	4	44%
	C	33	5	1	4	12%
	D	26	5	1	4	15%
	E	6	5	1	4	67%
	F	4	5	0	5	100%
	G	13	5	1	4	31%
	H	5	5	1	4	80%
223	A	284	75	12	63	22%
	B	190	75	12	63	33%
	C	294	75	15	60	20%
	D	203	75	15	60	30%
	E	87	75	15	60	69%
	F	50	75	15	60	100%
	G	85	75	15	60	71%
	H	41	75	15	60	100%
225	A	266	100	20	80	30%
	B	168	100	20	80	48%
	C	280	100	18	82	29%
	D	199	100	20	80	40%
	E	78	100	20	80	100%
	F	61	100	20	80	100%
	G	109	100	20	80	73%
	H	19	100	20	80	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
227	A	212	60	12	48	23%
	B	143	60	12	48	34%
	C	191	60	12	48	25%
	D	175	60	12	48	27%
	E	70	60	12	48	69%
	F	61	60	12	48	79%
	G	45	60	0	60	100%
	H	18	60	0	60	100%
228	A	129	40	8	32	25%
	B	82	40	8	32	39%
	C	114	40	8	32	28%
	D	94	40	0	40	43%
	E	69	40	8	32	46%
	F	29	40	8	32	100%
	G	48	40	0	40	83%
	H	22	40	8	32	100%
235	A	65	15	0	15	23%
	B	56	15	0	15	27%
	C	84	15	0	15	18%
	D	77	15	0	15	19%
	E	5	15	0	15	100%
	F	15	15	0	15	100%
	G	23	15	0	15	65%
	H	5	15	0	15	100%
236	A	325	95	19	76	23%
	B	260	95	19	76	29%
	C	381	95	19	76	20%
	D	273	95	19	76	28%
	E	161	95	19	76	47%
	F	55	95	0	95	100%
	G	108	95	19	76	70%
	H	61	95	0	95	100%
244	A	48	25	5	20	42%
	B	42	25	5	20	48%
	C	70	25	5	20	29%
	D	53	25	5	20	38%
	E	23	25	0	25	100%
	F	21	25	0	25	100%
	G	21	25	0	25	100%
	H	11	25	5	20	100%
248	A	21	5	1	4	19%
	B	14	5	0	5	36%
	C	31	5	1	4	13%
	D	31	5	1	4	13%
	E	12	5	1	4	33%
	F	5	5	1	4	80%
	G	14	5	0	5	36%
	H	3	5	0	5	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
249	A	23	15	3	12	52%
	B	32	15	3	12	38%
	C	31	15	3	12	39%
	D	26	15	3	12	46%
	E	8	15	0	15	100%
	F	5	15	0	15	100%
	G	14	15	0	15	100%
	H	5	15	0	15	100%
337	A	164	55	11	44	27%
	B	100	55	11	44	44%
	C	183	55	11	44	24%
	D	104	55	11	44	42%
	E	65	55	0	55	85%
	F	36	55	0	55	100%
	G	51	55	0	55	100%
	H	31	55	0	55	100%
338	A	257	85	17	68	26%
	B	148	85	17	68	46%
	C	239	85	17	68	28%
	D	160	85	17	68	43%
	E	86	85	0	85	99%
	F	36	85	0	85	100%
	G	90	85	17	68	76%
	H	38	85	0	85	100%
339	A	167	80	16	64	38%
	B	112	80	16	64	57%
	C	177	80	16	64	36%
	D	125	80	16	64	51%
	E	60	80	16	64	100%
	F	36	80	16	64	100%
	G	86	80	0	80	93%
	H	17	80	0	80	100%
341	A	601	225	45	180	30%
	B	366	225	45	180	49%
	C	663	225	45	180	27%
	D	513	225	45	180	35%
	E	218	225	45	180	83%
	F	164	225	45	180	100%
	G	199	225	45	180	90%
	H	75	225	45	180	100%
342	A	438	225	45	180	41%
	B	273	225	45	180	66%
	C	496	225	45	180	36%
	D	350	225	45	180	51%
	E	189	225	0	225	100%
	F	121	225	45	180	100%
	G	162	225	45	180	100%
	H	51	225	0	225	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
343	A	474	155	31	124	26%
	B	276	155	31	124	45%
	C	605	155	31	124	20%
	D	333	155	31	124	37%
	E	186	155	31	124	67%
	F	112	155	31	124	100%
	G	190	155	31	124	111%
	H	112	155	0	155	100%
344	A	497	140	28	112	23%
	B	279	140	28	112	40%
	C	427	140	28	112	26%
	D	293	140	28	112	38%
	E	134	140	0	140	100%
	F	116	140	0	140	100%
	G	176	140	0	140	80%
	H	55	140	0	140	100%
345	A	230	200	40	160	70%
	B	202	200	40	160	79%
	C	281	200	40	160	57%
	D	257	200	40	160	62%
	E	104	200	0	200	100%
	F	55	200	40	160	100%
	G	67	200	40	160	100%
	H	22	200	40	160	100%
346	A	562	325	65	260	46%
	B	356	325	65	260	73%
	C	543	325	65	260	48%
	D	486	325	65	260	53%
	E	224	325	65	260	100%
	F	85	325	0	325	100%
	G	149	325	0	325	100%
	H	32	325	0	325	100%
347	A	327	150	30	120	37%
	B	250	150	30	120	48%
	C	382	150	30	120	31%
	D	290	150	30	120	41%
	E	121	150	0	150	100%
	F	71	150	0	150	100%
	G	93	150	30	120	100%
	H	33	150	0	150	100%
348	A	510	175	35	140	27%
	B	326	175	35	140	43%
	C	505	175	35	140	28%
	D	346	175	35	140	40%
	E	176	175	35	140	80%
	F	126	175	35	140	100%
	G	115	175	0	175	100%
	H	64	175	35	140	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
349	A	994	450	90	360	36%
	B	587	450	90	360	61%
	C	967	450	90	360	37%
	D	718	450	90	360	50%
	E	362	450	90	360	99%
	F	216	450	0	450	100%
	G	313	450	90	360	100%
	H	85	450	90	360	100%
410	A	177	45	9	36	20%
	B	160	45	9	36	23%
	C	266	45	9	36	14%
	D	205	45	9	36	18%
	E	93	45	9	36	39%
	F	40	45	0	45	100%
	G	113	45	9	36	32%
	H	43	45	9	36	84%
411	A	136	45	9	36	26%
	B	78	45	9	36	46%
	C	147	45	9	36	24%
	D	112	45	9	36	32%
	E	65	45	9	36	55%
	F	36	45	9	36	100%
	G	64	45	9	36	56%
	H	24	45	9	36	100%
412	A	175	45	9	36	21%
	B	108	45	9	36	33%
	C	228	45	9	36	16%
	D	199	45	9	36	18%
	E	87	45	9	36	41%
	F	44	45	9	36	82%
	G	87	45	9	36	41%
	H	51	45	0	45	88%
413	A	47	10	2	8	17%
	B	23	10	2	8	35%
	C	35	10	2	8	23%
	D	32	10	2	8	25%
	E	11	10	0	10	91%
	F	5	10	0	10	100%
	G	21	10	2	8	38%
	H	5	10	0	10	100%
414	A	50	15	3	12	24%
	B	25	15	3	12	48%
	C	38	15	3	12	32%
	D	36	15	3	12	33%
	E	24	15	3	12	50%
	F	7	15	3	12	100%
	G	18	15	3	12	67%
	H	10	15	0	15	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
415	A	218	65	13	52	24%
	B	123	65	13	52	42%
	C	241	65	13	52	22%
	D	240	65	13	52	22%
	E	57	65	13	52	91%
	F	50	65	13	52	100%
	G	74	65	0	65	88%
	H	56	65	13	52	93%
416	A	38	10	2	8	21%
	B	34	10	2	8	24%
	C	64	10	2	8	13%
	D	54	10	2	8	15%
	E	15	10	0	10	67%
	F	19	10	0	10	53%
	G	32	10	2	8	25%
	H	8	10	0	10	100%
417	A	133	40	8	32	24%
	B	105	40	8	32	30%
	C	164	40	8	32	20%
	D	75	40	8	32	43%
	E	35	40	8	32	91%
	F	33	40	8	32	97%
	G	42	40	0	40	95%
	H	31	40	0	40	100%
418	A	196	65	13	52	27%
	B	142	65	13	52	37%
	C	288	65	13	52	18%
	D	222	65	13	52	23%
	E	75	65	13	52	69%
	F	63	65	0	65	100%
	G	103	65	13	52	50%
	H	40	65	13	52	100%
419	A	105	40	8	32	30%
	B	58	40	8	32	55%
	C	109	40	8	32	29%
	D	59	40	0	40	68%
	E	39	40	8	32	82%
	F	27	40	0	40	100%
	G	27	40	8	32	100%
	H	8	40	0	40	100%
420	A	8	7	0	7	88%
	B	3	7	0	7	100%
	C	9	7	0	7	78%
	D	16	7	0	7	44%
	E	7	7	0	7	100%
	F	1	7	0	7	100%
	G	1	7	0	7	100%
	H	0	7	0	7	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
422	A	13	5	0	5	38%
	B	5	5	0	5	100%
	C	24	5	0	5	21%
	D	14	5	0	5	36%
	E	12	5	0	5	42%
	F	1	5	0	5	100%
	G	4	5	0	5	100%
	H	5	5	0	5	100%
424	A	4	5	0	5	100%
	B	4	5	1	4	100%
	C	3	5	1	4	100%
	D	1	5	0	5	100%
	E	0	5	0	5	100%
	F	1	5	0	5	100%
	G	0	5	0	5	100%
	H	0	5	0	5	100%
425	A	180	60	12	48	27%
	B	115	60	12	48	42%
	C	216	60	12	48	22%
	D	196	60	12	48	24%
	E	74	60	0	60	81%
	F	34	60	12	48	100%
	G	81	60	12	48	59%
	H	50	60	12	48	96%
426	A	10	5	1	4	40%
	B	3	5	1	4	100%
	C	12	5	0	5	42%
	D	1	5	0	5	100%
	E	7	5	0	5	71%
	F	2	5	0	5	100%
	G	1	5	0	5	100%
	H	1	5	0	5	100%
427	A	24	10	2	8	33%
	B	12	10	0	10	83%
	C	21	10	2	8	38%
	D	8	10	0	10	100%
	E	5	10	0	10	100%
	F	2	10	0	10	100%
	G	9	10	2	8	89%
	H	4	10	0	10	100%
428	A	47	15	3	12	26%
	B	26	15	3	12	46%
	C	49	15	3	12	24%
	D	44	15	0	15	34%
	E	8	15	3	12	100%
	F	20	15	0	15	75%
	G	17	15	0	15	88%
	H	6	15	0	15	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
429	A	55	30	6	24	44%
	B	31	30	6	24	77%
	C	27	30	0	30	100%
	D	31	30	0	30	97%
	E	20	30	0	30	100%
	F	5	30	0	30	100%
	G	7	30	0	30	100%
	H	3	30	0	30	100%
431	A	19	5	1	4	21%
	B	17	5	0	5	29%
	C	19	5	1	4	21%
	D	17	5	0	5	29%
	E	6	5	0	5	83%
	F	1	5	0	5	100%
	G	6	5	0	5	83%
	H	1	5	0	5	100%
433	A	42	5	1	4	10%
	B	29	5	1	4	14%
	C	27	5	1	4	15%
	D	13	5	1	4	31%
	E	1	5	0	5	100%
	F	6	5	1	4	67%
	G	13	5	0	5	38%
	H	5	5	0	5	100%
440	A	144	70	14	56	39%
	B	106	70	14	56	53%
	C	151	70	14	56	37%
	D	130	70	14	56	43%
	E	30	70	0	70	100%
	F	22	70	0	70	100%
	G	53	70	14	56	100%
	H	10	70	0	70	100%
442	A	438	160	32	128	29%
	B	256	160	32	128	50%
	C	565	160	32	128	23%
	D	320	160	32	128	40%
	E	145	160	32	128	88%
	F	116	160	32	128	100%
	G	214	160	32	128	60%
	H	81	160	32	128	100%
443	A	160	70	14	56	35%
	B	88	70	14	56	64%
	C	173	70	14	56	32%
	D	151	70	14	56	37%
	E	69	70	14	56	81%
	F	27	70	0	70	100%
	G	38	70	14	56	100%
	H	4	70	0	70	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
446	A	25	5	1	4	16%
	B	10	5	1	4	40%
	C	20	5	1	4	20%
	D	13	5	1	4	31%
	E	7	5	0	5	71%
	F	4	5	0	5	100%
	G	7	5	1	4	57%
	H	4	5	1	4	100%
447	A	14	5	0	5	36%
	B	6	5	1	4	67%
	C	0	5	0	5	100%
	D	6	5	1	4	67%
	E	0	5	0	5	100%
	F	3	5	0	5	100%
	G	3	5	0	5	100%
	H	1	5	0	5	100%
448	A	6	7	2	5	83%
	B	26	7	0	7	27%
	C	30	7	2	5	17%
	D	27	7	2	5	19%
	E	17	7	0	7	41%
	F	8	7	0	7	88%
	G	10	7	2	5	50%
	H	0	7	0	7	100%
449	A	36	7	2	5	14%
	B	19	7	2	5	26%
	C	37	7	2	5	14%
	D	29	7	2	5	17%
	E	15	7	0	7	47%
	F	15	7	0	7	47%
	G	22	7	2	5	23%
	H	9	7	2	5	56%
450	A	21	7	0	7	33%
	B	16	7	2	5	31%
	C	18	7	0	7	39%
	D	5	7	0	7	100%
	E	6	7	0	7	100%
	F	2	7	0	7	100%
	G	9	7	2	5	56%
	H	1	7	0	7	100%
451	A	24	5	1	4	17%
	B	21	5	0	5	24%
	C	27	5	0	5	19%
	D	31	5	1	4	13%
	E	8	5	1	4	50%
	F	8	5	0	5	63%
	G	1	5	0	5	100%
	H	5	5	0	5	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
454	A	21	5	0	5	24%
	B	13	5	0	5	38%
	C	12	5	0	5	42%
	D	14	5	0	5	36%
	E	8	5	0	5	63%
	F	10	5	0	5	50%
	G	10	5	0	5	50%
	H	10	5	1	4	40%
456	A	5	5	0	5	100%
	B	4	5	0	5	100%
	C	7	5	1	4	57%
	D	6	5	1	4	67%
	E	10	5	0	5	50%
	F	3	5	0	5	100%
	G	1	5	0	5	100%
	H	0	5	0	5	100%
457	A	11	5	0	5	45%
	B	11	5	0	5	45%
	C	16	5	0	5	31%
	D	11	5	0	5	45%
	E	5	5	0	5	100%
	F	2	5	0	5	100%
	G	3	5	0	5	100%
	H	5	5	0	5	100%
458	A	3	5	0	5	100%
	B	1	5	0	5	100%
	C	2	5	0	5	100%
	D	0	5	0	5	100%
	E	1	5	0	5	100%
	F	0	5	0	5	100%
	G	0	5	0	5	100%
	H	0	5	0	5	100%
459	A	65	25	5	20	31%
	B	29	25	5	20	69%
	C	65	25	5	20	31%
	D	34	25	5	20	59%
	E	18	25	0	25	100%
	F	16	25	0	25	100%
	G	23	25	0	25	100%
	H	6	25	0	25	100%
461	A	235	80	16	64	27%
	B	140	80	16	64	46%
	C	258	80	16	64	25%
	D	192	80	16	64	33%
	E	70	80	16	64	91%
	F	45	80	16	64	100%
	G	66	80	16	64	97%
	H	13	80	0	80	100%

Permit Area	Time Period	Regular Applicants	Total Permits Available	Landowner Permits Offered ^a	Regular Permits Available	Chance of Regular Applicants being Drawn (%) ^b
462	A	213	90	18	72	34%
	B	121	90	18	72	60%
	C	226	90	18	72	32%
	D	186	90	18	72	39%
	E	62	90	0	90	100%
	F	56	90	18	72	100%
	G	83	90	18	72	87%
	H	27	90	0	90	100%
463	A	73	20	4	16	22%
	B	39	20	4	16	41%
	C	72	20	4	16	22%
	D	30	20	0	20	67%
	E	16	20	4	16	100%
	F	7	20	0	20	100%
	G	14	20	0	20	100%
	H	0	20	0	20	100%
464	A	33	25	5	20	61%
	B	40	25	0	25	63%
	C	56	25	5	20	36%
	D	48	25	0	25	52%
	E	10	25	5	20	100%
	F	8	25	0	25	100%
	G	9	25	0	25	100%
	H	3	25	0	25	100%
465	A	56	30	6	24	43%
	B	29	30	0	30	100%
	C	78	30	0	30	38%
	D	34	30	0	30	88%
	E	15	30	6	24	100%
	F	6	30	0	30	100%
	G	10	30	0	30	100%
	H	4	30	0	30	100%
466	A	124	50	10	40	32%
	B	68	50	10	40	59%
	C	117	50	10	40	34%
	D	86	50	10	40	47%
	E	48	50	10	40	83%
	F	31	50	10	40	100%
	G	32	50	0	50	100%
	H	22	50	0	50	100%
467	A	131	40	8	32	24%
	B	53	40	8	32	60%
	C	129	40	8	32	25%
	D	80	40	8	32	40%
	E	28	40	0	40	100%
	F	14	40	0	40	100%
	G	44	40	8	32	73%
	H	19	40	0	40	100%
Total		47,359	31,784	4,861	26,923	

Table 3. Spring wild turkey harvest and hunter success rates by permit area in Minnesota, 2005.

Permit Area	Permits Available	Permits Issued ^a	Registered Harvest	% Hunter Success (2005) ^b	% Hunter Success (2-5 Yr Ave) ^c
157	40	34	11	32.4	31.3 (2)
159	40	41	13	31.7	25.6 (2)
221	160	146	65	44.5	48.1 (3)
222	40	38	17	44.7	NA ^d
223	600	520	198	38.1	36.3 (5)
225	800	689	117	17.0	23.8 (5)
227	480	417	138	33.1	32.9 (5)
228	320	278	120	43.2	38.9 (5)
235	120	106	41	38.7	34.7 (5)
236	760	702	263	37.5	40.0 (5)
244	200	164	53	32.3	30.8 (4)
248	40	56	28	50.0	44.4 (2)
249	120	109	35	32.1	27.7 (3)
337	440	385	132	34.3	34.9 (5)
338	680	584	156	26.7	31.1 (5)
339	640	542	186	34.3	33.4 (5)
341	1,800	1584	505	31.9	34.3 (5)
342	1,800	1559	358	23.0	27.2 (5)
343	1,240	1099	419	38.1	40.3 (5)
344	1,120	966	184	19.0	26.8 (5)
345	1,600	1356	232	17.1	22.4 (5)
346	2,600	2126	410	19.3	25.2 (5)
347	1,200	1041	201	19.3	26.6 (5)
348	1,400	1187	269	22.7	25.1 (5)
349	3,600	3087	653	21.2	25.9 (5)
410	360	313	133	42.5	44.6 (4)
411	360	321	110	34.3	40.1 (5)
412	360	321	128	39.9	42.6 (5)
413	80	72	25	34.7	NA ^d
414	120	110	39	35.5	39.5 (2)
415	520	466	178	38.2	38.2 (5)
416	80	78	29	37.2	38.7 (5)
417	320	277	97	35.0	39.8 (5)
418	520	468	189	40.4	40.9 (5)
419	320	272	68	25.0	24.8 (5)
420	56	50	24	48.0	47.1 (2)
422	40	36	15	41.7	34.2 (5)
424	40	18	9	50.0	NA ^d
425	480	441	172	39.0	37.6 (5)
426	40	29	7	24.1	25.9 (5)
427	80	62	24	38.7	35.8 (5)
428	120	111	43	38.7	37.3 (5)
429	240	219	47	21.5	21.2 (5)

Permit Area	Permits Available	Permits Issued ^a	Registered Harvest	% Hunter Success (2005) ^b	% Hunter Success (2-5 Yr Ave) ^c
431	40	40	22	55.0	38.5 (5)
433	40	41	17	41.5	45.1 (2)
440	560	504	149	29.6	31.8 (5)
442	1,280	1123	348	31.0	34.5 (5)
443	560	509	132	25.9	32.0 (5)
446	40	44	18	40.9	NA ^d
447	40	34	15	44.1	NA ^d
448	56	58	27	46.6	57.6 (2)
449	56	54	33	61.1	60.0 (2)
450	56	51	15	29.4	28.6 (5)
451	40	40	21	52.5	59.2 (3)
454	40	37	10	27.0	NA ^d
456	40	35	1	2.9	NA ^d
457	40	32	8	25.0	25.7 (5)
458	40	26	8	30.8	NA ^d
459	200	179	37	20.7	25.5 (5)
461	640	560	178	31.8	32.4 (5)
462	720	642	230	35.8	35.7 (5)
463	160	138	44	31.9	27.7 (5)
464	200	175	54	30.9	23.7 (5)
465	240	207	41	19.8	24.8 (5)
466	400	344	136	39.5	38.1 (4)
467	320	285	115	40.4	35.0 (4)
Total	31,784	27,638	7,800	28.2	30.7

^a2,210 permits were issued to archery hunters

^b Success rate not adjusted for non-participants.

^c Number in parenthesis equals the number of years data was available.

^d New or newly split permit area; average value is not available.

Table 4. Spring wild turkey hunter success by time period in Minnesota, 2005.

Time Period	Permits Issued	Registered Harvest	% Hunter Success (2005) ^a	% Hunter Success (5 Yr Ave) ^a
A) April 14-18	3,642	1,556	42.7	42.7
B) April 19-23	3,533	1,421	40.2	39.6
C) April 24-28	3,668	1,040	28.4	30.9
D) April 29-3	3,625	819	22.6	27.7
E) May 4-8	3,590	1,005	28.0	31.4
F) May 9-13	3,235	869	26.9	29.7
G) May 14-20	3,383	374	11.1	21.3
H) May 21-27	2,962	716	24.2	22.3
Total	27,638	7,800	28.2	30.7

^a Success rate not adjusted for non-participants.

Table 5. Age structure of spring wild turkey harvest by permit area in Minnesota, 2005.

Note: Age is hunter reported and is subject to error.

Permit Area	Adults	Juveniles	Unknown	% Juveniles	Total Harvest
157	9	2	0	18.2	11
159	12	1	0	7.7	13
221	63	2	0	3.1	65
222	15	2	0	11.8	17
223	183	13	2	6.6	198
225	101	15	1	12.8	117
227	125	11	2	8.0	138
228	109	11	0	9.2	120
235	33	8	0	19.5	41
236	235	26	2	9.9	263
244	44	9	0	17.0	53
248	27	1	0	3.6	28
249	29	6	0	17.1	35
337	118	14	0	10.6	132
338	144	12	0	7.7	156
339	156	27	3	14.5	186
341	454	50	1	9.9	505
342	325	33	0	9.2	358
343	389	30	0	7.2	419
344	160	23	1	12.5	184
345	207	25	0	10.8	232
346	346	61	3	14.9	410
347	177	21	3	10.4	201
348	252	17	0	6.3	269
349	568	83	2	12.7	653
410	124	7	2	5.3	133
411	92	16	2	14.5	110
412	119	9	0	7.0	128
413	21	2	2	8.0	25
414	32	6	1	15.4	39
415	162	16	0	9.0	178
416	27	2	0	6.9	29
417	91	6	0	6.2	97
418	170	18	1	9.5	189
419	51	16	1	23.5	68
420	22	2	0	8.3	24
422	14	1	0	6.7	15
424	9	0	0	0.0	9
425	154	18	0	10.5	172
426	5	2	0	28.6	7
427	20	4	0	16.7	24
428	41	2	0	4.7	43
429	39	8	0	17.0	47
431	19	3	0	13.6	22

Permit Area	Adults	Juveniles	Unknown	% Juveniles	Total Harvest
433	17	0	0	0.0	17
440	136	11	2	7.4	149
442	315	31	2	8.9	348
443	118	14	0	10.6	132
446	18	0	0	0.0	18
447	15	0	0	0.0	15
448	25	2	0	7.4	27
449	27	0	6	0.0	33
450	7	2	6	13.3	15
451	18	1	2	4.8	21
454	8	2	0	20.0	10
456	0	1	0	100.0	1
457	7	1	0	12.5	8
458	7	1	0	12.5	8
459	35	2	0	5.4	37
461	161	17	0	9.6	178
462	210	17	3	7.4	230
463	36	6	2	13.6	44
464	48	6	0	11.1	54
465	33	8	0	19.5	41
466	126	10	0	7.4	136
467	105	9	1	7.8	115
Total	6,965	782	53	10.0	7,800

Table 6. Spring wild turkey harvest per square mile of huntable habitat^a in Minnesota, 2005.

Permit Area	Total Huntable Habitat ^a (Square Miles)	Turkeys Harvested Per Square Mile	Permit Area	Total Huntable Habitat ^a (Square Miles)	Turkeys Harvested Per Square Mile
157	269	0.04	424	NA	NA
159	294	0.04	425/435	128	1.34
221	93	0.70	426	46	0.15
222	NA	NA	427	64	0.38
223	90	2.20	428	110	0.39
225	233	0.50	429	108	0.44
227	111	1.24	431	42	0.52
228	43	2.79	433	51	0.33
235	15	2.73	440	97	1.54
236	169	1.56	442	164	2.12
244	353	0.15	443	80	1.65
248	115	0.24	446	91	0.20
249	207	0.17	447	NA	NA
337	60	2.20	448	44	0.57
338	99	1.58	449	59	0.41
339	92	2.02	450	56	0.27
341	232	2.18	451/452/453	97	0.22
342	159	2.25	454/455/456/458	178	0.06
343	96	4.36	456	NA	NA
344	93	1.98	457	68	0.12
345	137	1.69	458	NA	NA
346	216	1.90	459	104	0.36
347	140	1.44	461	131	1.36
348	159	1.69	462	118	1.95
349	277	2.36	463	70	0.63
410	392	0.34	464	60	0.90
411	184	0.60	465	48	0.85
412	275	0.47	466	115	1.18
413	NA	NA	467	80	1.44
414	252	0.15			
415	264	0.67	Total	8,098	0.96
416	88	0.33			
417	192	0.51			
418	222	0.85			
419	163	0.42			
420	61	0.39			
422	44	0.34			

^a Huntable habitat is forest cover buffered by 50 meters, with non-huntable areas (e.g., lakes, cities) removed.

2005 Spring Wild Turkey Permit Areas

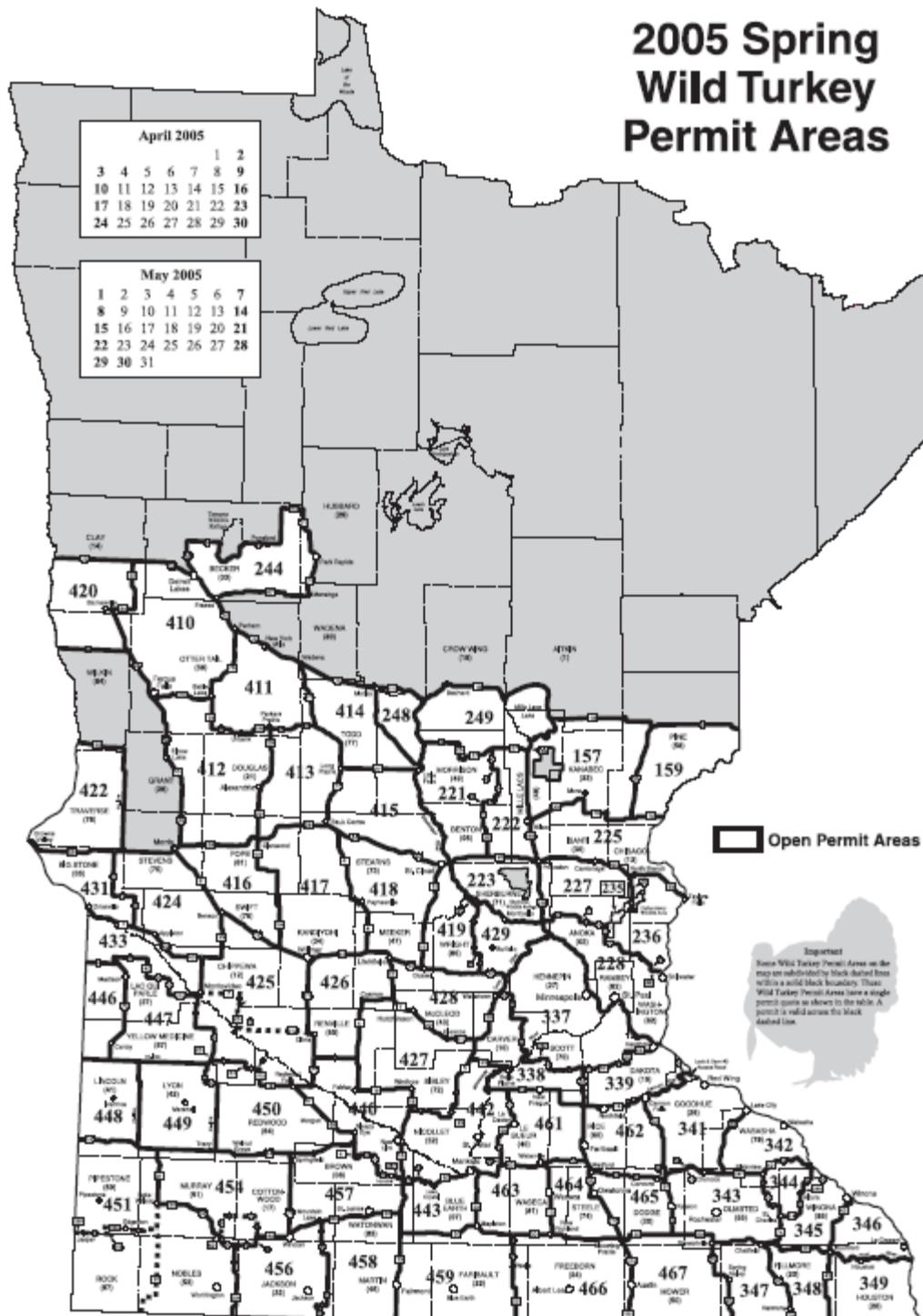


Figure 1. Turkey permit areas open to spring hunting in Minnesota, 2005.

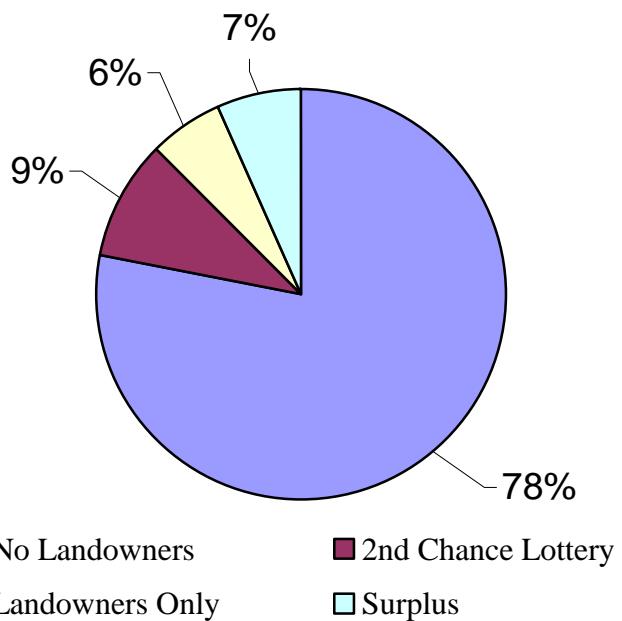


Figure 2. Lottery permits issued for the spring wild turkey hunting season by category in Minnesota, 2005.

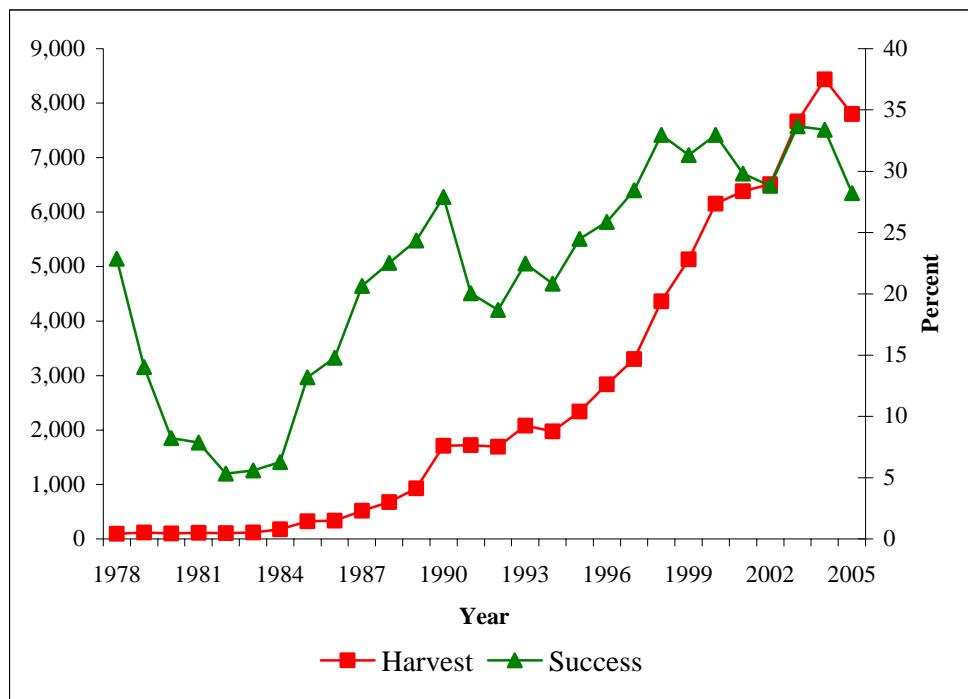


Figure 3. Total harvest and hunter success rate for the spring wild turkey hunting season in Minnesota from 1978 to 2005.

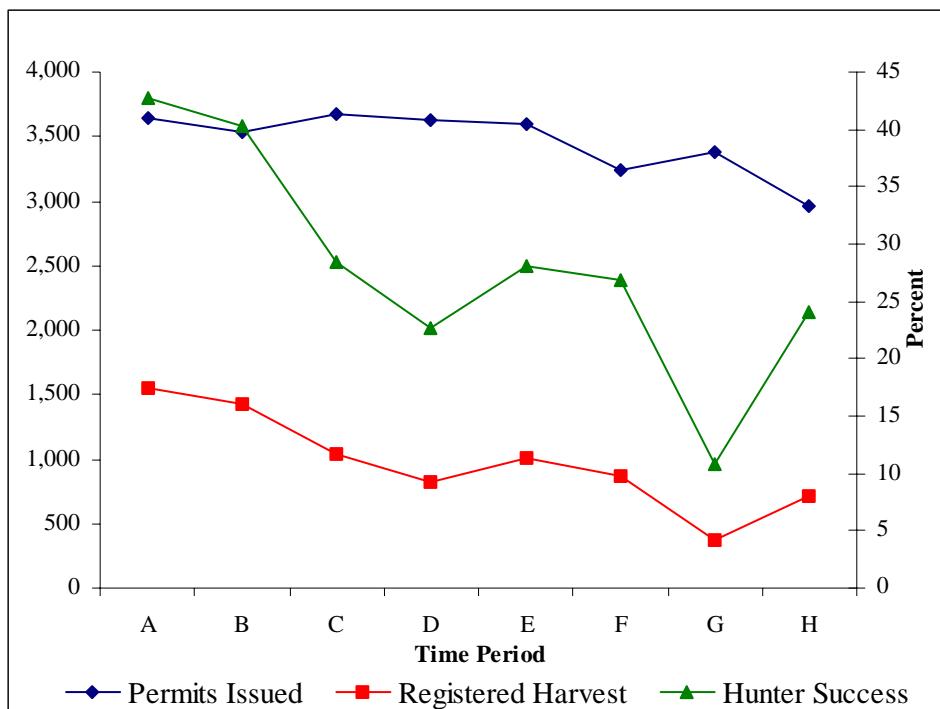


Figure 4. Permits issued, registered harvest, and hunter success by time period for the spring wild turkey hunting season in Minnesota, 2005.

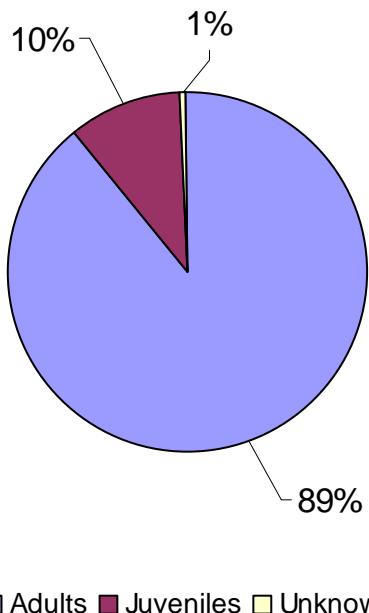


Figure 5. Hunter reported age structure of spring wild turkey harvest in Minnesota, 2005.
Note: Age is hunter reported and is subject to error.

Minnesota Prairie-chicken Hunting Season and Hunter Survey, 2004

Michael A. Larson, Forest Wildlife Populations & Research Group

Hunting seasons for prairie-chickens (*Tympanuchus cupido pinnatus*) in Minnesota were closed from 1943 through 2002. During October 2003 a limited-entry, 5-day hunting season for prairie-chickens was held within 7 contiguous permit areas in western Minnesota (Figure 1). The format for the 2004 hunting season, which was held 23–27 October, was similar. Permits were awarded through a lottery system, and each hunter could harvest a maximum of 2 prairie-chickens.

Eighty-three (11%) of 734 regular applicants were awarded permits (Table 1). An additional 18 permits (72% success) were awarded through a separate lottery to hunters who applied as landowners or tenants of ≥ 40 acres of grassland within a permit area. In 3 instances 1 or 2 more permits were awarded than were available in a permit area because the last hunter selected in the lottery had applied as a member of a hunting party, so other members of the party also were offered permits.

Results of the hunting season came from 2 sources—the Electronic Licensing System (ELS), which recorded the mandatory registration of each prairie-chicken harvested, and a post-season mail survey sent to all 90 hunters who purchased a permit. Seventy-two hunters responded to the first mailing of the survey, and 14 responded to the second mailing, so the response rate was 95.6%. The ELS and survey results differ slightly because party hunting is allowed, so a hunter who registered a prairie-chicken may not have been the hunter who reported killing it. In addition, 3.5% of 86 hunters who purchased a permit and responded to the survey reported that they did not hunt.

The number of prairie-chicken hunters, amount of time spent hunting, and hunting methods were similar during 2003 and 2004 (Figures 2, 3 and 4). Hunter harvest of prairie-chickens during 2004, however, was less than during 2003. Hunters killed and retrieved approximately 55 prairie-chickens during 2004 and 129 during 2003 (Table 2). Only 2.4% of hunters ($n = 83$) reported knocking down a prairie-chicken and not being able to retrieve it during 2004. Whereas 46% of hunters harvested at least 1 prairie-chicken during 2004, 68% did during 2003. Hunters also may have flushed fewer prairie-chickens during 2004 (Figure 5). Thirty-three percent of hunters ($n = 86$) commented on poor weather conditions during and prior to the 2004 prairie-chicken hunting season. Many reported heavy rains, and a few mentioned large areas of standing water.

Thirty-five percent of hunters ($n = 83$) hunted only on public land, 25% hunted only on private land, and 33 (40%) hunted on both public and private land. Of the 40 hunters who reported their ease of gaining access to private land and who had not applied for a permit as a landowner or tenant, 48%, 25%, 20%, and 8% reported it being very easy, somewhat easy, somewhat difficult, and very difficult,

respectively. This distribution is only slightly different than when landowners themselves were added to the sample (Figure 6).

Hunter satisfaction with the 2004 prairie-chicken hunting season was reported as a median of 8 (mean = 6.8) on a 1–10 scale ($n = 82$, Figure 7), and 95% of hunters reported that they would apply for a prairie-chicken permit again in the future. Seven prairie-chicken hunters (8.4%, $n = 83$) reported being interfered with by other hunters 12 times during 2004.

ACKNOWLEDGMENTS.

Robin Williams assisted with mailing and entering data from the hunter survey. Wendy Krueger, Richard Kimmel, and others developed and initially implemented the hunter survey for the 2003 prairie-chicken hunt. Wendy also provided the map in Figure 1.

Table 1. Results of the lottery for prairie-chicken hunting permits in Minnesota during 2004.

Permit area	Permit type	Permits avail.	No. of applicants	Lottery winners		Permits purchased	
				no.	prop. ^a	no.	prop. ^a
405 A	Regular Landowner	10 3	116 2	10 2	0.09 1.00	6 2	0.60 1.00
407 A	Regular Landowner	8 3	81 7	8 5	0.10 0.71	7 5	0.88 1.00
407 B	Regular Landowner	12 3	89 5	13 3	0.15 0.60	13 3	1.00 1.00
407 C	Regular Landowner	11 3	54 2	11 2	0.20 1.00	11 2	1.00 1.00
420 A	Regular Landowner	10 3	85 7	10 4	0.12 0.57	10 4	1.00 1.00
420 B	Regular Landowner	18 0	188 0	18	0.10	12	0.67
421 A	Regular Landowner	13 3	121 2	13 2	0.11 1.00	13 2	1.00 1.00
All	Regular Landowner	82 18 All	734 25 759	83 18 101	0.11 0.72 0.13	72 18 90	0.87 1.00 0.89

^a Proportion of the previous column (i.e., lottery winners/applicants and purchasers/winners).

Table 2. Hunter harvest of prairie-chickens in Minnesota during 2004.

Permit area	Permit type	No. of hunters ^b	Birds retrieved		Birds / hunter		Success rate ^a	
			ELS ^c	Survey ^d	ELS	Survey	ELS	Survey
405 A	Regular Landowner	6	1	1	0.2	0.2	0.17	0.17
		2	0	0	0.0	0.0	0.00	0.00
407 A	Regular Landowner	5	2	2	0.3	0.4	0.14	0.20
		5	1	2	0.2	0.4	0.20	0.40
407 B	Regular Landowner	13	9	10	0.7	0.8	0.46	0.54
		3	2	2	0.7	0.7	0.33	0.33
407 C	Regular Landowner	10	9	10	0.8	1.0	0.45	0.60
		2	0	0	0.0	0.0	0.00	0.00
420 A	Regular Landowner	10	10	10	1.0	1.0	0.70	0.70
		3	0	2	0.0	0.7	0.00	0.67
420 B	Regular Landowner	12	10	9	0.8	0.8	0.58	0.58
		0						
421 A	Regular Landowner	11	7	7	0.5	0.6	0.31	0.36
		1	0	0	0.0	0.0	0.00	0.00
All	Regular Landowner	67	48	49	0.7	0.7	0.43	0.49
		16	3	6	0.2	0.4	0.11	0.31
		All	83	51	0.6	0.7	0.37	0.46

^a Proportion of hunters who killed and retrieved at least 1 prairie-chicken.

^b Number of hunters who responded to a mail survey and reported to have hunted. Number of hunters according to the Electronic License System (ELS) is the number who purchased a permit to hunt prairie-chickens (Table 1).

^c Results from the ELS database of registered harvest.

^d Results from a mail survey sent to hunters after the prairie-chicken hunting season.

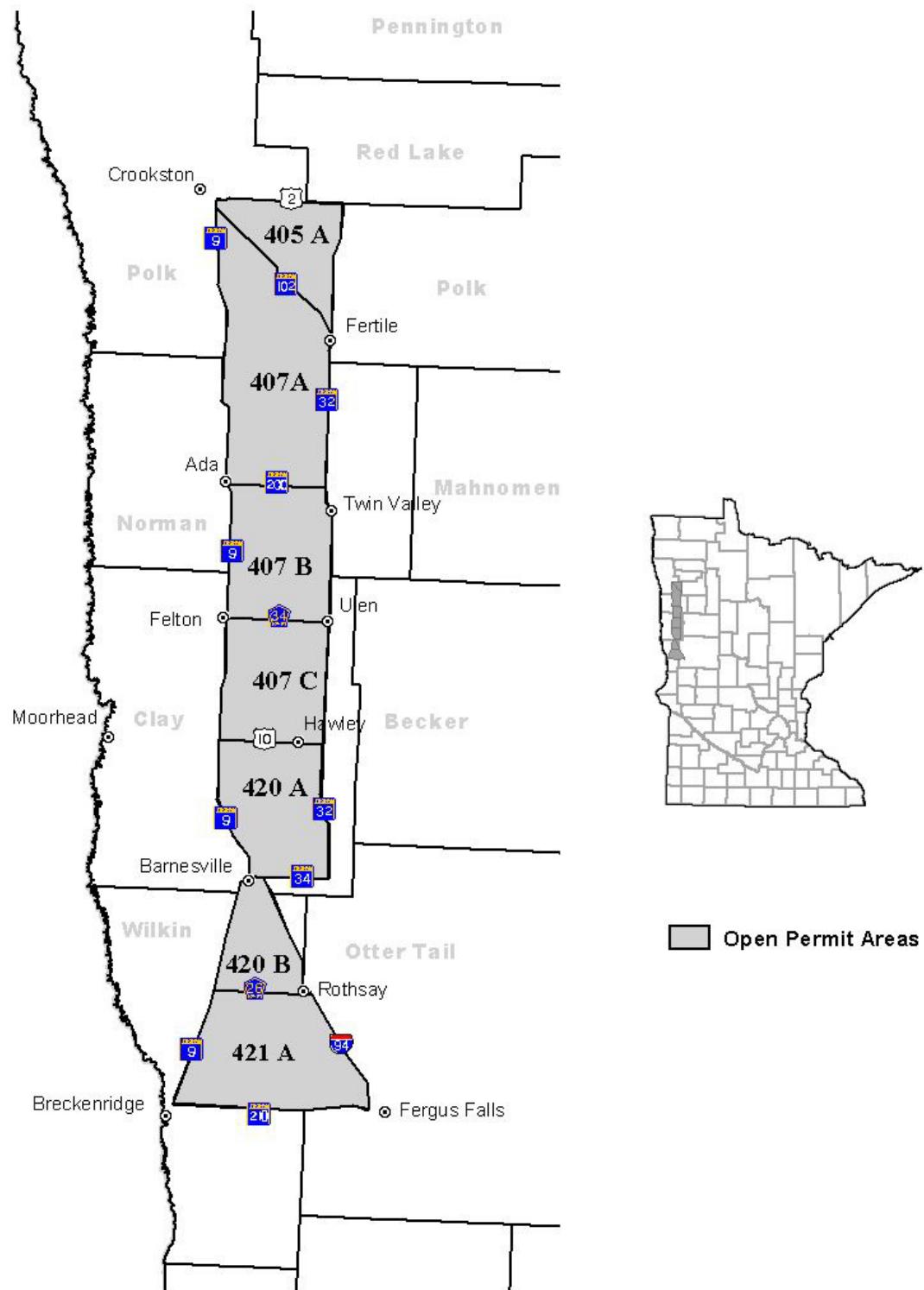


Figure 1. Map of permit areas for prairie-chicken hunting in Minnesota during 2003–2004.

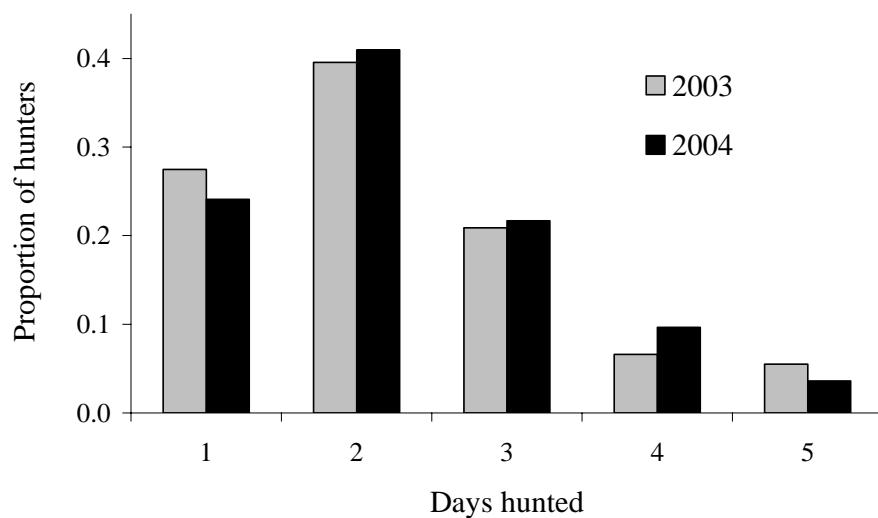


Figure 2. Number of days hunters pursued prairie-chickens in Minnesota during 2003 ($n = 91$ survey respondents) and 2004 ($n = 83$).

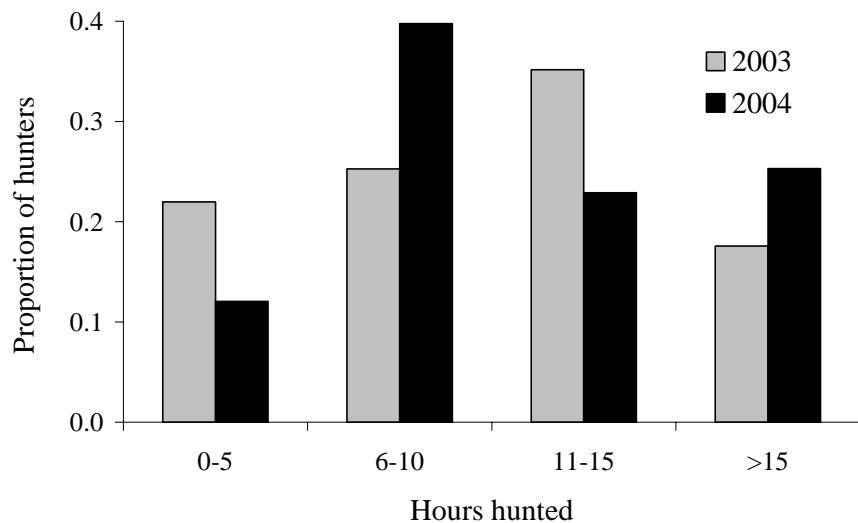


Figure 3. Number of hours hunters pursued prairie-chickens in Minnesota during 2003 ($n = 91$ survey respondents) and 2004 ($n = 83$).

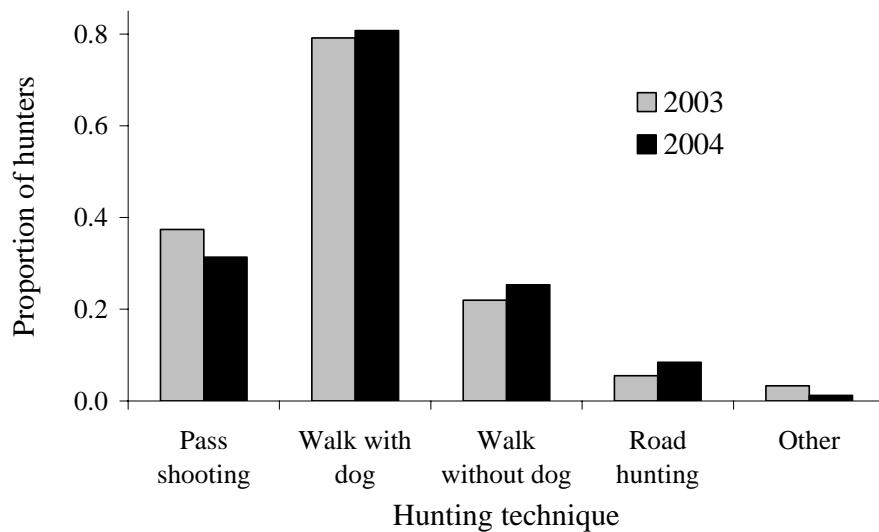


Figure 4. Methods used by prairie-chicken hunters in Minnesota during 2003 ($n = 91$ survey respondents) and 2004 ($n = 83$).

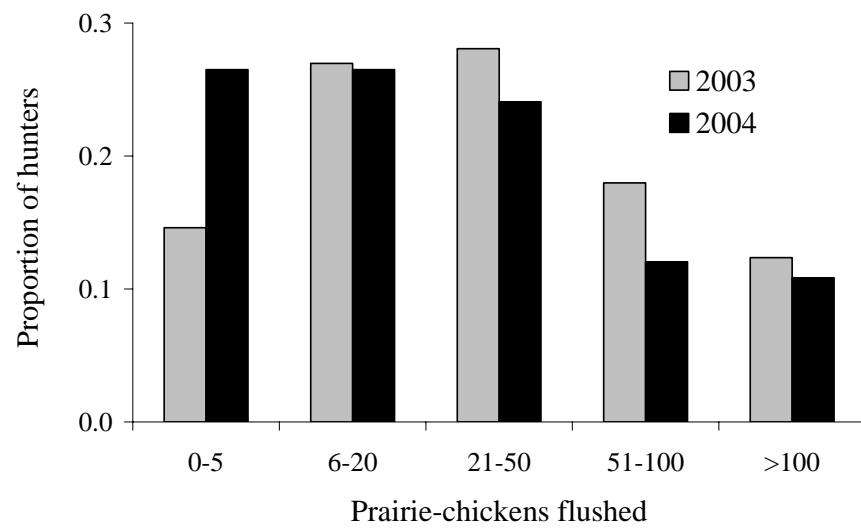


Figure 5. Number of prairie-chickens flushed by prairie-chicken hunters in Minnesota during 2003 ($n = 89$ survey respondents) and 2004 ($n = 83$).

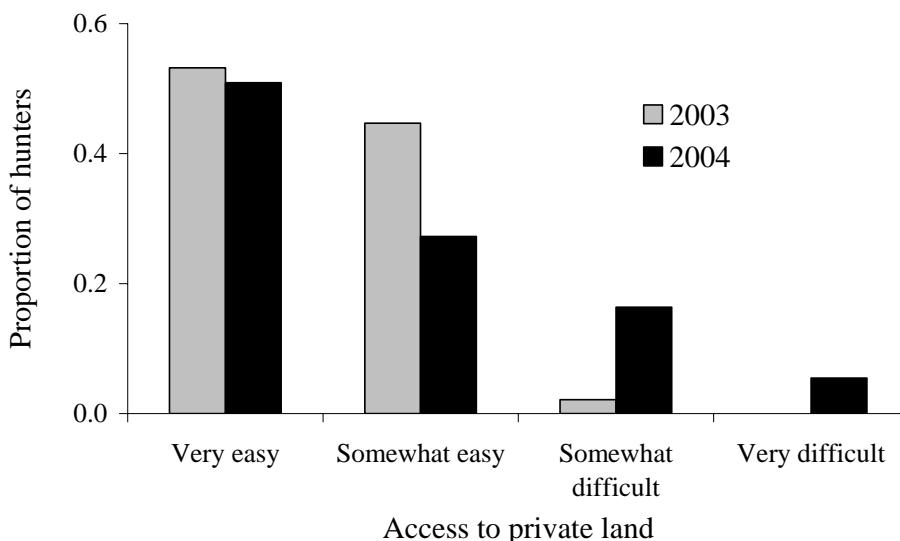


Figure 6. Ease of acquiring permission to access private land for prairie-chicken hunters in Minnesota during 2003 ($n = 47$ survey respondents) and 2004 ($n = 55$).

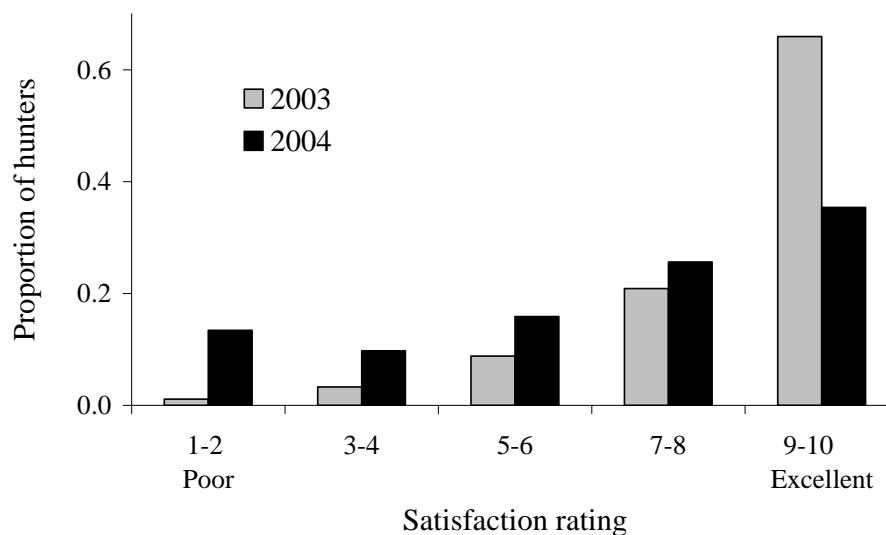


Figure 7. Degree of overall satisfaction of hunters with the prairie-chicken season during 2003 ($n = 91$ survey respondents) and 2004 ($n = 82$).

2004 Minnesota Deer Harvest Report

Lou Cornicelli, Big Game / Season Program Consultant, Division of Fish and Wildlife

INTRODUCTION

The white-tailed deer may be considered Minnesota's most popular wildlife species. Each year 500,000 hunters harvest over 200,000. In 2004, hunters registered 260,604 deer. This harvest marked the second highest harvest recorded in Minnesota.

METHODS

Every deer taken by hunting in Minnesota must be registered within 24 hours of the close of the season under which the deer was taken. Deer may be registered at any of the 825 "Big Game Registration" stations available throughout the state. Implementation of electronic licensing (ELS) has improved the efficiency and accuracy of deer harvest estimates and provides a more timely release of harvest information. Registered deer are recorded as adult buck, fawn buck, adult doe, or fawn doe. Additional information gathered at time of registration includes date and time of kill, county, zone, season, and method of take (firearms, archery).

RESULTS

Outcome of the 2004 deer harvest are presented in the following tables.

Table 1. Statewide Firearms, Archery, and Muzzleloader Harvest, License Sales, and Success Rates 1994 - 2004.

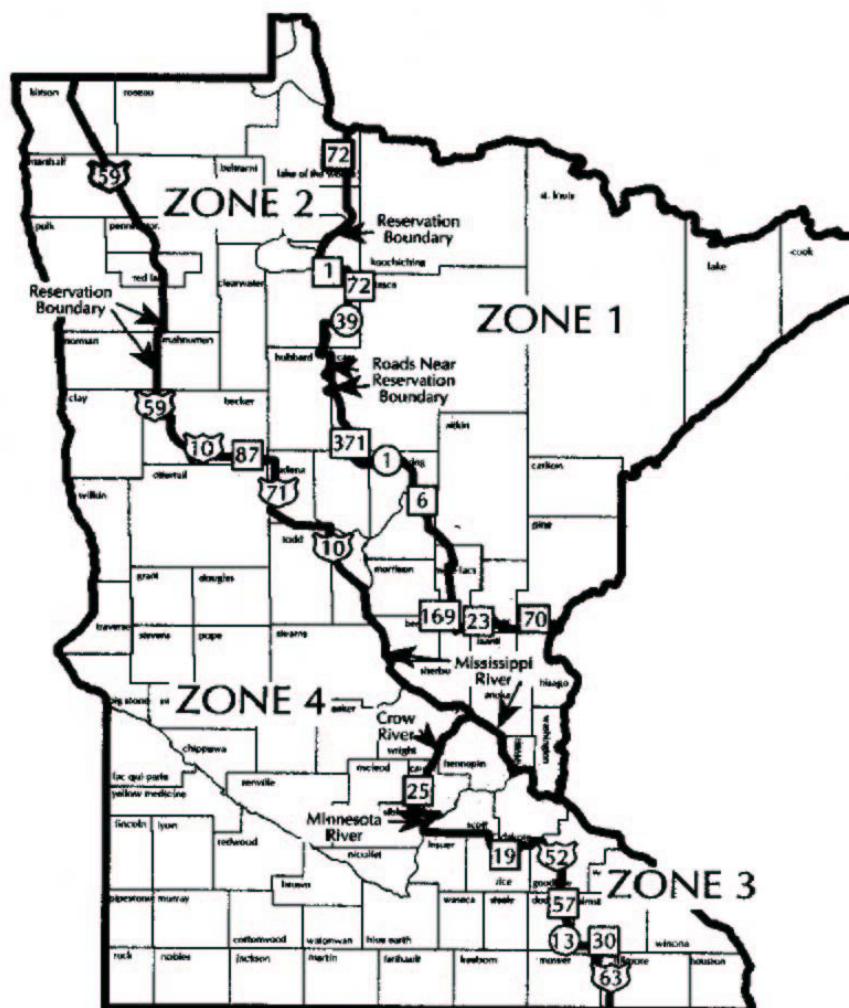
Regular Firearms		1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Resident License Sales		427,343	419,965	389,745	369,190	378,320	395,745	400,814	401,005	367,964	344,875	309,698
Non-Resident License Sales		9,190	9,339	8,535	7,830	8,852	9,970	10,595	10,972	10,835	11,334	12,036
Antlerless Permit Sales		19,308	22,603	27,148	32,229	20,884	23,785	34,802	59,013	105,699	194,201	183,186
Multi-Zone Buck License Sales		24,590	29,902	38,806	42,803	44,739	43,903	42,669	41,921	35,658	32,929	32,359
Resident Youth License Sales			1,835	2,964	3,844	3,445	2,038	3,215	4,011	2,884	34,463	51,347
All Season Deer License Sales								2,384	3,986	22,125	30,998	46,008
Total License Sales		480,879	483,644	467,198	455,896	456,240	475,441	495,289	519,601	545,165	648,800	634,634
Registered Buck Harvest ¹		85,579	88,997	71,242	64,867	82,921	92,584	102,961	98,894	101,333	110,440	116,612
Antlerless Permits Offered		199,950	201,525	154,195	150,195	140,280	177,380	232,595	286,540	365,667	31,625	30,760
Antlerless Permits Issued		164,418	162,761	116,650	105,481	108,016	135,852	180,490	196,603	192,907	25,386	24,111
Antlerless Permits App.		260,086	257,653	174,329	142,260	151,148	214,597	237,571	225,341	202,086	30,253	28,454
Registered AL Harvest ¹		92,704	109,196	68,106	62,038	60,475	71,681	88,492	98,169	102,280	147,420	123,278
Registered Total Harvest ¹		178,283	198,193	139,348	126,905	143,396	164,265	191,453	197,063	203,613	257,860	239,890
Registered % Successful ²		37.1	40.1	29.8	27.8	31.4	34.8	38.6	37.9	37.3	39.7	37.8
ARCHERY												
Resident License Sales		71,409	70,056	67,058	63,499	63,826	66,226	68,947	69,608	57,532	59,339	50,601
Non-Resident License Sales		1,156	1,171	1,098	980	1,029	1,073	1,271	1,288	1,275	1,428	1,144
Mgmt Permit License Sales		13,121	15,387	15,632	17,478	15,846	16,945	20,393	22,141	18,126	N/A	N/A
Total License Sales		85,686	86,614	83,788	81,957	80,701	84,244	90,611	93,037	76,933	60,767	51,745
Registered Harvest		13,818	14,521	14,338	13,258	12,306	13,376	15,776	15,884	14,744	21,720	17,237
Registered Harvest - AS license												3,489
Registered % Successful ²		16.1	16.8	17.1	16.2	15.2	15.8	17.4	17.1	19.2	35.7	33.3
MUZZLELOADER												
Total Muzzleloader License Sales								11,972	13,043	11,764	9,142	10,512
Registered Harvest - MZ license ¹		1,725	2,452	3,367	3,164	3,152	2,928	4,548	4,494	3,505	5,095	4,143
Registered Harvest - AS license											4,371	5,146
Registered % Successful ²								38	34.5	29.8	55.7	39.4
Total Registered Harvest		193,826	215,166	157,317	143,327	158,854	180,569	211,777	217,452	222,050	290,525	260,604

¹

²

Does not include free landowner licenses Based on total license sales - does not include all-season deer

Figure 1. 2004 Firearms and Archery Deer Seasons. 2004 Minnesota Firearms Deer Season.



Zone	Dates
Zone 1	Nov. 6-21
Zone 2	Nov. 6-14
Zone 3A	Nov. 6-12
Zone 3B	Nov. 20-28
Zone 4A	Nov. 6-7
Zone 4B	Nov. 13-16
Muzzleloader	Nov. 27- Dec. 12

2004 Minnesota Archery Deer Season

Northeast Border Zone (Permit Areas 116 and 127): September 18-November 21.

Remainder of State: September 18-December 31.

Antlerless deer and legal bucks may be taken by archery, except only legal bucks may be taken in permit areas that have no either-sex permits or have youth-only either-sex permits.

Table 2. Deer Harvest by License Type and Zone, 2004.

Firearms/Zone	Hunters	Bucks	Harvest Antlerless	Total	Overall Success
1	148,303	35,672	36,169	71,841	48.4%
2	111,708	27,039	40,546	67,585	60.5%
3A	17,992	5,008	1,316	6,324	35.1%
3B	22,135	3,067	7,853	10,920	49.3%
4A	73,474	11,996	16,973	28,969	39.4%
4B	37,049	4,620	12,139	16,759	45.2%
Multi-Zone Buck	32,359	9,169	0	9,169	28.3%
Free Landowner ¹	4,196	0	1,317	1,317	31.4%
All-Season Deer ¹	46,008	12,743	13,597	26,340	57.3%
Muzzleloader Lic.	10,512	480	3,663	4,143	39.4%
Archery License ²	51,745	5,815	11,422	17,237	33.3%
TOTAL³	526,298	115,609	144,995	260,604	49.5%

1

Includes deer taken during regular firearms, muzzleloader, and archery seasons

2

Includes Camp Ripley harvest. Total number of people who bought only an archery license was 22,526.

3

Due to the fact that a hunter can buy multiple licenses, this is an estimate and may be biased high.

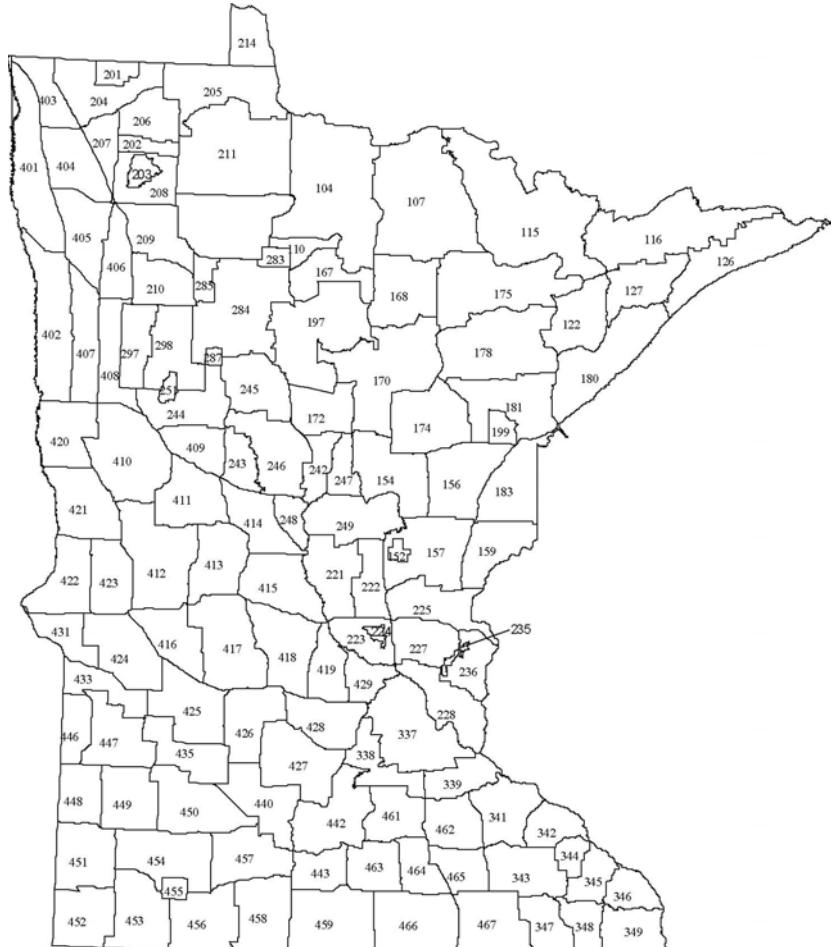


Figure 2. 2004 Deer Permit Areas.

Table 3. Firearms Harvest and Harvest per Square Mile by Permit Area, 2004.

Includes regular, youth, and bonus permits.

Permit Area	A or B Season	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks/Sq. Mile	Antlerless/Sq. Mile	Total/Sq. Mile
104		1	1,434	215	874	122	2,645	2,078	0.69	0.58	1.27
107		1	2,098	286	1,140	189	3,713	1,895	1.11	0.85	1.96
110		1	512	140	567	111	1,330	198	2.59	4.13	6.72
115		1	2,459	274	1,136	212	4,081	1,872	1.31	0.87	2.18
116		1	225	4	26	2	257	1,158	0.19	0.03	0.22
122		1	519	14	112	13	658	620	0.84	0.22	1.06
126		1	531	28	168	20	747	940	0.56	0.23	0.79
127		1	130	1	15	1	147	562	0.23	0.03	0.26
152		1	130	16	52	11	209	61	2.13	1.30	3.43
154		1	1,832	612	1,809	379	4,632	761	2.41	3.68	6.09
156		1	1,816	472	1,475	346	4,109	826	2.20	2.78	4.97
157		1	2,712	952	2,321	641	6,626	890	3.05	4.40	7.44
159		1	1,343	427	1,366	274	3,410	568	2.36	3.64	6.00
167		1	696	107	379	78	1,260	440	1.58	1.28	2.86
168		1	1,658	374	1,257	266	3,555	543	3.05	3.49	6.55
170		1	2,882	767	2,295	455	6,399	1,315	2.19	2.67	4.87
172		1	1,886	615	1,951	382	4,834	451	4.18	6.54	10.72
174		1	1,449	341	1,024	223	3,037	835	1.74	1.90	3.64
175		1	2,159	336	1,272	205	3,972	1,029	2.10	1.76	3.86
178		1	2,581	419	1,566	324	4,890	1,264	2.04	1.83	3.87
180		1	1,703	77	321	36	2,137	1,059	1.61	0.41	2.02
181		1	2,163	381	1,100	211	3,855	861	2.51	1.97	4.48
183		1	1,592	404	1,167	235	3,398	707	2.25	2.55	4.81
197		1	931	103	342	50	1,426	960	0.97	0.52	1.49
199		1	117	8	31	3	159	148	0.79	0.28	1.07
201	Youth	2	0	0	1	0	1				
201		2	55	13	60	13	141	166	0.33	0.52	0.85
202	Youth	2	0	1	2	0	3				
202		2	245	62	198	40	545	157	1.56	1.91	3.47
203		2	88	19	68	26	201	117	0.75	0.97	1.72
204	Youth	2	1	3	12	2	18				
204		2	562	132	458	110	1,262	718	0.78	0.97	1.76
205	Youth	2	0	0	1	1	2				
205		2	1,172	310	1,008	255	2,745	642	1.83	2.45	4.28
206	Youth	2	0	4	19	0	23				
206		2	535	146	511	122	1,314	471	1.14	1.65	2.79
207	Youth	2	0	0	2	0	2				
207		2	357	100	357	76	890	300	1.19	1.78	2.97
208	Youth	2	0	1	7	0	8				
208		2	234	66	240	75	615	448	0.52	0.85	1.37
209	Youth	2	0	0	1	1	2				
209		2	516	160	386	140	1,202	576	0.90	1.19	2.09
210		2	668	182	599	171	1,620	486	1.37	1.96	3.33
211	Youth	2	0	1	0	0	1				
211		2	1,221	203	737	118	2,279	1,831	0.67	0.58	1.24
214		2	41	5	25	4	75	123	0.33	0.28	0.61
221		2	908	369	794	335	2,406	642	1.41	2.33	3.75
222		2	753	281	584	207	1,825	413	1.82	2.60	4.42
223		2	430	151	353	105	1,039	376	1.14	1.62	2.76
224		2	129	49	134	23	335	48	2.69	4.29	6.98
225		2	1,237	464	888	324	2,913	619	2.00	2.71	4.71
227		2	819	256	549	168	1,792	472	1.74	2.06	3.80
228		2	230	41	164	35	470	614	0.37	0.39	0.77
235		2	68	13	48	11	140	33	2.06	2.18	4.24
236		2	690	176	522	145	1,533	374	1.84	2.25	4.10
242		2	578	264	625	215	1,682	215	2.68	5.13	7.81
243		2	1,022	468	1,207	382	3,079	314	3.25	6.55	9.81
244		2	2,046	911	2,081	711	5,749	586	3.49	6.32	9.81
245		2	2,088	812	1,877	601	5,378	583	3.58	5.64	9.22

Table 3. (Continued).

Permit Area	A or B Season	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks/ Sq. Mile	Antlerless/ Sq. Mile	Total/ Sq. Mile
246		2	2,216	934	2,132	668	5,950	771	2.87	4.84	7.71
247		2	794	306	776	206	2,082	230	3.45	5.59	9.04
248		2	420	155	383	121	1,079	1,328	0.32	0.50	0.81
249		2	1,156	527	1,087	409	3,179	502	2.30	4.03	6.33
251		2	160	49	101	40	350	56	2.86	3.39	6.25
283		2	185	59	216	67	527	102	1.81	3.35	5.17
284		2	3,705	1,262	3,359	959	9,285	1,260	2.94	4.43	7.37
285		2	465	154	476	118	1,213	169	2.75	4.43	7.18
287		2	171	53	149	29	402	47	3.64	4.91	8.55
297		2	237	47	143	35	462	439	0.54	0.51	1.05
298		2	798	177	443	141	1,559	620	1.29	1.23	2.51
337	A	3	185	39	113	30	367	1,025	0.18	0.18	0.36
337	B	3	64	24	79	20	187	1,025	0.06	0.12	0.18
338	A	3	145	20	35	12	212	452	0.32	0.15	0.47
338	B	3	91	37	121	28	277	452	0.20	0.41	0.61
339	A	3	136	11	23	6	176	394	0.35	0.10	0.45
339	B	3	64	35	109	24	232	394	0.16	0.43	0.59
341	A	3	538	32	91	30	691	611	0.88	0.25	1.13
341	B	3	315	163	517	116	1,111	611	0.52	1.30	1.82
342	A	3	362	30	64	12	468	350	1.03	0.30	1.34
342	B	3	279	140	419	109	947	350	0.80	1.91	2.71
343	A	3	484	26	57	13	580	663	0.73	0.14	0.87
343	B	3	306	174	493	123	1,096	663	0.46	1.19	1.65
344	A	3	361	24	77	5	467	190	1.90	0.56	2.46
344	B	3	147	71	216	50	484	190	0.77	1.77	2.55
345	A	3	342	16	37	7	402	326	1.05	0.18	1.23
345	B	3	208	108	309	70	695	326	0.64	1.49	2.13
346	A	3	629	25	76	22	752	319	1.97	0.39	2.36
346	B	3	431	222	697	174	1,524	319	1.35	3.43	4.78
347	A	3	411	29	62	8	510	434	0.95	0.23	1.18
347	B	3	265	207	460	131	1,063	434	0.61	1.84	2.45
348	A	3	504	21	88	18	631	331	1.52	0.38	1.91
348	B	3	326	174	579	145	1,224	331	0.98	2.71	3.70
349	A	3	908	34	102	14	1,058	492	1.85	0.30	2.15
349	B	3	525	288	847	210	1,870	492	1.07	2.73	3.80
401	A	4	74	22	71	12	179	1,040	0.07	0.10	0.17
401	B	4	62	16	86	13	177	1,040	0.06	0.11	0.17
401	Youth	4	0	0	3	1	4				
402	A	4	131	57	165	39	392	1,023	0.13	0.26	0.38
402	B	4	52	38	122	34	246	1,023	0.05	0.19	0.24
403	A	4	95	30	125	31	281	396	0.24	0.47	0.71
403	B	4	94	50	183	36	363	396	0.24	0.68	0.92
403	Youth	4	0	1	4	2	7				
404	A	4	216	79	253	58	606	631	0.34	0.62	0.96
404	B	4	204	70	355	70	699	631	0.32	0.78	1.11
404	Youth	4	0	0	25	7	32				
405	A	4	187	61	247	50	545	654	0.29	0.55	0.83
405	B	4	128	60	233	53	474	654	0.20	0.53	0.72
405	Youth	4	0	2	4	1	7				
406	A	4	196	79	186	77	538	413	0.47	0.83	1.30
406	B	4	91	61	182	52	386	413	0.22	0.71	0.93
407	A	4	197	99	228	96	620	618	0.32	0.68	1.00
407	B	4	118	82	215	84	499	618	0.19	0.62	0.81
408	A	4	180	91	209	73	553	494	0.36	0.76	1.12
408	B	4	69	53	151	37	310	494	0.14	0.49	0.63
409	A	4	651	335	659	301	1,946	417	1.56	3.11	4.67
409	B	4	129	184	491	140	944	417	0.31	1.95	2.26
410	A	4	975	380	870	327	2,552	925	1.05	1.70	2.76
410	B	4	200	174	406	152	932	925	0.22	0.79	1.01

Table 3. (continued)

Permit Area	A or B Season	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks/Sq. Mile	Antlerless/Sq. Mile	Total/Sq. Mile
411	A	4	871	403	800	317	2,391	642	1.36	2.37	3.72
411	B	4	154	292	420	140	1,006	642	0.24	1.33	1.57
412	A	4	638	214	573	175	1,600	989	0.65	0.97	1.62
412	B	4	132	101	310	95	638	989	0.13	0.51	0.65
413	A	4	566	234	449	220	1,469	644	0.88	1.40	2.28
413	B	4	114	144	331	85	674	644	0.18	0.87	1.05
414	A	4	675	342	599	332	1,948	557	1.21	2.29	3.50
414	B	4	121	198	414	153	886	557	0.22	1.37	1.59
415	A	4	410	207	386	132	1,135	702	0.58	1.03	1.62
415	B	4	132	123	248	97	600	702	0.19	0.67	0.85
416	A	4	284	63	173	46	566	544	0.52	0.52	1.04
416	B	4	107	32	148	35	322	544	0.20	0.40	0.59
417	A	4	473	87	316	78	954	939	0.50	0.51	1.02
417	B	4	147	48	140	29	364	939	0.16	0.23	0.39
418	A	4	344	159	307	101	911	761	0.45	0.75	1.20
418	B	4	94	84	189	63	430	761	0.12	0.44	0.57
419	A	4	167	61	132	41	401	393	0.42	0.60	1.02
419	B	4	65	44	101	25	235	393	0.17	0.43	0.60
420	A	4	104	32	131	46	313	651	0.16	0.32	0.48
420	B	4	69	41	121	38	269	651	0.11	0.31	0.41
421	A	4	104	32	89	17	242	749	0.14	0.18	0.32
421	B	4	48	20	86	17	171	749	0.06	0.16	0.23
422	A	4	56	21	50	14	141	635	0.09	0.13	0.22
422	B	4	32	15	35	5	87	635	0.05	0.09	0.14
423	A	4	74	18	46	14	152	531	0.14	0.15	0.29
423	B	4	35	10	52	16	113	531	0.07	0.15	0.21
424	A	4	158	17	75	15	265	766	0.21	0.14	0.35
424	B	4	89	19	70	14	192	766	0.12	0.13	0.25
425	A	4	68	9	18	5	100	779	0.09	0.04	0.13
425	B	4	41	4	34	7	86	779	0.05	0.06	0.11
426	A	4	127	22	91	21	261	615	0.21	0.22	0.42
426	B	4	53	19	55	7	134	615	0.09	0.13	0.22
427	A	4	119	3	57	6	185	837	0.14	0.08	0.22
427	B	4	46	4	52	4	106	837	0.05	0.07	0.13
428	A	4	119	29	79	20	247	550	0.22	0.23	0.45
428	B	4	61	22	71	15	169	550	0.11	0.20	0.31
429	A	4	57	17	46	10	130	288	0.20	0.25	0.45
429	B	4	33	21	47	13	114	288	0.11	0.28	0.40
431	A	4	74	12	47	7	140	360	0.21	0.18	0.39
431	B	4	46	9	38	8	101	360	0.13	0.15	0.28
433	A	4	186	25	120	11	342	402	0.46	0.39	0.85
433	B	4	85	24	96	17	222	402	0.21	0.34	0.55
435	A	4	179	24	106	27	336	576	0.31	0.27	0.58
435	B	4	88	19	64	12	183	576	0.15	0.16	0.32
440	A	4	227	24	171	25	447	663	0.34	0.33	0.67
440	B	4	37	9	51	8	105	663	0.06	0.10	0.16
442	A	4	289	51	134	19	493	807	0.36	0.25	0.61
442	B	4	73	17	104	22	216	807	0.09	0.18	0.27
443	A	4	123	28	51	19	221	386	0.32	0.25	0.57
443	B	4	31	11	61	19	122	386	0.08	0.24	0.32
446	A	4	133	10	59	7	209	344	0.39	0.22	0.61
446	B	4	47	12	85	5	149	344	0.14	0.30	0.43
447	A	4	132	17	73	7	229	674	0.20	0.14	0.34
447	B	4	33	8	41	3	85	674	0.05	0.08	0.13
448	A	4	148	24	151	19	342	448	0.33	0.43	0.76
448	B	4	39	8	49	8	104	448	0.09	0.15	0.23
449	A	4	215	28	120	28	391	626	0.34	0.28	0.62
449	B	4	61	23	80	12	176	626	0.10	0.18	0.28

Table 3. (continued).

Permit Area	A or B Season	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks/ Sq. Mile	Antlerless/ Sq. Mile	Total/ Sq. Mile
450	A	4	81	12	58	9	160	816	0.10	0.10	0.20
450	B	4	33	3	49	3	88	816	0.04	0.07	0.11
451	A	4	102	20	64	13	199	687	0.15	0.14	0.29
451	B	4	103	20	74	13	210	687	0.15	0.16	0.31
452	A	4	87	18	64	13	182	637	0.14	0.15	0.29
452	B	4	120	33	93	16	262	637	0.19	0.22	0.41
453	A	4	98	12	55	13	178	729	0.13	0.11	0.24
453	B	4	56	4	45	5	110	729	0.08	0.07	0.15
454	A	4	204	35	131	22	392	840	0.24	0.22	0.47
454	B	4	125	27	85	13	250	840	0.15	0.15	0.30
455	A	4	20	5	12	2	39	96	0.21	0.20	0.41
455	B	4	22	1	16	0	39	96	0.23	0.18	0.41
456	A	4	143	24	117	21	305	712	0.20	0.23	0.43
456	B	4	118	40	165	20	343	712	0.17	0.32	0.48
457	A	4	117	19	96	16	248	667	0.18	0.20	0.37
457	B	4	61	12	54	15	142	667	0.09	0.12	0.21
458	A	4	93	23	56	13	185	716	0.13	0.13	0.26
458	B	4	78	12	63	15	168	716	0.11	0.13	0.23
459	A	4	184	14	106	13	317	975	0.19	0.14	0.33
459	B	4	89	18	85	12	204	975	0.09	0.12	0.21
461	A	4	169	59	152	37	417	481	0.35	0.52	0.87
461	B	4	75	63	167	41	346	481	0.16	0.56	0.72
462	A	4	206	38	162	30	436	506	0.41	0.45	0.86
462	B	4	67	36	148	28	279	506	0.13	0.42	0.55
463	A	4	77	16	78	13	184	453	0.17	0.24	0.41
463	B	4	23	11	32	10	76	453	0.05	0.12	0.17
464	A	4	75	21	87	10	193	377	0.20	0.31	0.51
464	B	4	61	22	66	11	160	377	0.16	0.26	0.42
465	A	4	56	15	43	8	122	389	0.14	0.17	0.31
465	B	4	74	16	72	15	177	389	0.19	0.26	0.46
466	A	4	129	47	100	47	323	931	0.14	0.21	0.35
466	B	4	126	35	189	44	394	931	0.14	0.29	0.42
467	A	4	133	27	84	22	266	774	0.17	0.17	0.34
467	B	4	105	37	167	26	335	774	0.14	0.30	0.43
901		1	9	1	6	0	16				
902		1	82	34	82	38	236				
903		1	0	1	15	4	20				
904		1	8	11	13	1	33				
905		1	5	0	2	0	7				
906		1	5	3	20	3	31				
907		1	1	0	1	0	2				
909		2	10	4	16	3	33				
910		2	0	1	10	7	18				
911		2	28	13	57	8	106				
912		2	0	2	10	7	19				
913		2	1	4	13	2	20				
914		3B	22	5	13	3	43				
915		3B	1	1	7	2	11				
916		3B	0	9	19	4	32				
917		3B	23	10	30	3	66				
918		3B	0	4	21	4	29				
919		3B	0	2	10	1	13				
920		3B	0	1	12	3	16				
922		4B	24	14	35	14	87				
953		3	3	0	5	2	10				
954		2	0	3	6	2	11				
956		1	4	2	3	1	10				
TOTAL			87,402	25,247	71,176	18,573	202,398				

Table 4a. Firearm Bonus Permit Harvest by Permit Area, 2004. Managed Permit Areas

Permit Area	A or B Season	Zone	Fawn Male	Adult Female	Fawn Female	Total
104		1	124	523	77	724
107		1	147	663	121	931
115		1	160	601	121	882
126		1	14	92	12	118
168		1	176	586	144	906
170		1	390	1,273	270	1,933
172		1	309	1,059	219	1,587
174		1	175	549	108	832
175		1	188	705	118	1,011
178		1	209	818	191	1,218
181		1	197	607	121	925
183		1	195	607	140	942
201		2	10	34	5	49
211		2	112	412	69	593
214		2	4	16	3	23
224		2	21	66	13	100
235		2	5	30	9	44
251		2	35	60	21	116
297		2	28	87	23	138
298		2	94	236	75	405
338	B	3	7	39	13	59
339	B	3	13	49	11	73
344	B	3	25	60	20	105
345	B	3	36	113	28	177
416	A	4	26	57	15	98
416	B	4	17	69	17	103
418	A	4	52	104	30	186
418	B	4	35	78	25	138
422	A	4	8	22	6	36
422	B	4	9	22	3	34
452	A	4	10	22	3	35
452	B	4	18	40	5	63
456	A	4	9	54	11	74
456	B	4	27	79	16	122
461	A	4	20	51	14	85
461	B	4	30	84	26	140
462	A	4	18	70	9	97
462	B	4	21	72	18	111
464	A	4	10	36	3	49
464	B	4	12	29	5	46
465	A	4	7	21	3	31
465	B	4	7	28	9	44
466	A	4	20	45	18	83
466	B	4	12	98	25	135
467	A	4	13	38	10	61
467	B	4	19	83	12	114
Total			3,074	10,487	2,215	15,776

Table 4b. Firearm Bonus Permit Harvest by Permit Area, 2004. Intensive Permit Areas

Permit Area	A or B Season	Zone	Fawn Male	Adult Female	Fawn Female	Total	Permit Area	A or B Season	Zone	Fawn Male	Adult Female	Fawn Female	Total
110		1	96	377	75	548	337	A	3	32	90	27	149
154		1	371	1,125	265	1,761	337	B	3	14	63	16	93
156		1	280	891	247	1,418	341	B	3	84	223	71	378
157		1	587	1,423	438	2,448	342	B	3	71	180	59	310
159		1	269	807	168	1,244	343	B	3	93	263	79	435
202		2	41	149	28	218	346	B	3	109	363	89	561
203		2	13	48	20	81	347	B	3	106	252	73	431
204		2	91	333	75	499	411	A	4	228	502	200	930
205		2	221	707	207	1,135	411	B	4	134	319	115	568
206		2	99	379	84	562	412	A	4	86	258	92	436
207		2	70	256	52	378	412	B	4	63	209	74	346
208		2	45	179	55	279	413	A	4	120	236	132	488
209		2	109	272	108	489	413	B	4	93	240	59	392
210		2	114	415	125	654	414	A	4	186	335	196	717
221		2	210	441	217	868	414	B	4	129	278	105	512
222		2	147	295	122	564	415	A	4	97	156	43	296
223		2	79	203	67	349	415	B	4	69	136	55	260
225		2	272	512	197	981	419	A	4	26	71	21	118
227		2	169	339	120	628	419	B	4	29	62	15	106
228		2	32	130	30	192	420	A	4	19	75	25	119
348	B	3	81	265	66	412	420	B	4	17	77	23	117
349	B	3	148	470	136	754	421	A	4	21	38	2	61
401	A	4	18	51	10	79	421	B	4	15	53	8	76
401	B	4	13	73	10	96	423	A	4	8	24	8	40
402	A	4	35	105	23	163	423	B	4	4	26	7	37
402	B	4	30	101	31	162	429	A	4	6	21	6	33
403	A	4	22	97	24	143	429	B	4	14	27	4	45
403	B	4	37	138	27	202	Total			10,567	28,068	8,966	47,601
404	A	4	43	193	47	283							
404	B	4	49	256	50	355							
405	A	4	39	170	32	241							
405	B	4	46	168	42	256							
406	A	4	57	133	54	244							
406	B	4	39	130	41	210							
407	A	4	61	150	69	280							
407	B	4	58	150	63	271							
408	A	4	52	135	49	236							
408	B	4	32	102	23	157							
409	A	4	226	484	212	922							
409	B	4	138	398	117	653							
410	A	4	222	508	218	948							
410	B	4	131	300	126	557							
236		2	119	376	97	592							
242		2	160	395	152	707							
243		2	303	770	266	1,339							
244		2	633	1,459	512	2,604							
245		2	487	1,151	416	2,054							
246		2	555	1,268	441	2,264							
247		2	182	453	137	772							
248		2	90	236	78	404							
249		2	280	650	262	1,192							
283		2	31	147	44	222							
284		2	828	2,307	689	3,824							
285		2	106	341	80	527							
287		2	28	80	18	126							

Table 5. Multi-Zone Buck Harvest by Permit Area, 2004.

Zone 1		Zone 2		Zone 3		Zone 4	
Permit Area	Adult Male						
104	39	201	1	337	27	401	89
107	28	202	9	338	23	402	116
110	25	203	1	339	18	403	134
115	40	204	36	341	15	404	242
116	2	205	29	342	6	405	203
122	8	206	12	343	20	406	196
126	7	207	22	344	9	407	172
127	1	208	13	345	2	408	162
152	7	209	43	346	6	409	502
154	37	210	37	347	19	410	585
156	24	211	54	348	9	411	571
157	50	214	2	349	10	412	287
159	25	221	28	Zone 3 Total	164	413	333
167	35	222	19			414	388
168	41	223	23			415	215
170	31	224	2			416	113
172	55	225	50			417	174
174	19	227	22			418	146
175	17	228	15			419	123
178	18	235	5			420	118
180	23	236	28			421	46
181	15	242	18			422	46
183	20	243	46			423	41
197	48	244	89			424	63
199	2	245	70			425	33
Zone 1 Total	617	246	54			426	72
		247	17			427	68
		248	21			428	87
		249	19			429	86
		251	9			431	34
		283	7			433	75
		284	141			435	79
		285	16			440	92
		287	4			442	132
		297	24			443	46
		298	28			446	38
		Zone 2 Total				447	41
						448	101
						449	75
						450	47
						451	72
						452	38
						453	69
						454	98
						455	6
						456	72
						457	82
						458	83
						459	91
						461	106
						462	101
						463	48
						464	57
						465	58
						466	126
						467	96
						Zone 4 Total	
							7,374
Grand Total		9,169					

Table 6. Summary of Firearms Special Hunts, 2004. Includes regular, youth, all-season licenses, and bonus permits.

Area	Dates	Zone	Permits Issued	Harvest				
				Adult Male	Fawn Male	Adult Female	Fawn Female	Total
901 - Rice Lake Nat. Wildlife Refuge	11/13 - 11/21	1A	40*	12	1	6	0	19
902 - St. Croix State Park ¹	11/13 - 11/14	1A	550*	93	34	90	39	256
903 - Savanna Portage State Park ¹	11/13 - 11/21	1A	25**	0	1	15	4	20
904 - Gooseberry Falls State Park ¹	11/6 - 11/21	1A	25*	9	11	13	1	34
905 - Split Rock Lighthouse State Park ¹	11/6 - 11/21	1A	25*	5	0	2	0	7
906 - Tettegouche State Park ¹	11/6 - 11/21	1A	125*	5	3	20	3	31
907 - Scenic State Park ¹	11/6 - 11/21	1A	30*	1	0	1	0	2
908 - Lake Bronson State Park ¹	11/6 - 11/8	2A	25**	0	0	0	0	0
909 - William O'Brien State Park ¹	11/6 - 11/7	2A	65*	10	4	16	3	33
910 - Zippel Bay State Park ¹	11/6 - 11/14	2A	55**	0	1	10	7	18
911 - Wild River State Park ¹	11/6 - 11/9	2A	150*	35	14	63	8	120
912 - Lake Bemidji State Park ¹	11/6 - 11/9	2A	35**	0	2	11	7	20
913 - Hayes Lake State Park ¹	11/6 - 11/14	2A	60**	1	4	13	2	20
914 - Elm Creek Park Reserve ¹	11/20 - 11/21	3B	145*	22	5	13	3	43
915 - Lake Rebecca Park Reserve ¹	11/27 - 11/28	3B	75*	1	1	7	2	11
916 - Forestville/Mystery Cave SP ¹	11/20 - 11/28	3B	110**	0	9	19	4	32
917 - Frontenac State Park	11/20 - 11/23	3B	50*	23	10	30	3	66
918 - Great River Bluffs State Park ¹	11/20 - 11/22 11/26 - 11/28	3B	100**	0	4	21	4	29
919 - Zumbro Falls Woods SNA ¹	11/20 - 11/28	3B	10**	0	2	10	1	13
920 - Whitewater Refuge	11/20 - 11/28	3B	75**	0	1	12	3	16
921 - Rydell National Wildlife Refuge	11/13 - 11/16	4B	10**	0	0	0	0	0
922 - Maplewood State Park ¹	11/13 - 11/16	4B	100*	34	19	41	14	108
923 - Glacial Lakes State Park	11/13 - 11/16	4B	30**	0	0	0	0	0
953 - Whitewater Youth	10/21 - 10/24		50*	3	0	5	2	10
954 - Lake Bemidji State Park - Youth	10/21 - 10/24		25**	0	3	6	2	11
956 - St. Croix State Park - Youth	10/30 - 10/31		37*	4	2	3	1	10
957 - Rydell NWR - Youth	10/30 - 10/31		25**	0	0	0	0	0
TOTAL				258	131	427	113	929

¹

Bonus permits available

*Either sex

** Antlerless Only

Table 7. Free Landowner Firearms Harvest by Permit Area, 2004.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	0	1	5	1	7
107	0	0	4	0	4
110	0	0	3	0	3
154	0	0	2	1	3
156	0	0	2	0	2
157	0	6	31	4	41
159	0	2	3	1	6
170	0	3	7	0	10
172	0	1	2	1	4
174	0	1	1	0	2
175	0	0	0	2	2
178	0	3	4	0	7
181	0	1	7	0	8
183	0	1	1	1	3
201	0	0	1	0	1
202	0	0	0	1	1
204	0	0	3	1	4
205	0	1	6	2	9
206	0	2	2	0	4
207	0	1	5	0	6
208	0	2	5	1	8
209	0	2	9	2	13
210	0	1	3	4	8
211	0	0	2	1	3
221	0	11	20	9	40
222	0	1	2	2	5
223	0	0	1	0	1
225	0	3	9	8	20
227	0	0	5	0	5
242	0	1	1	0	2
243	0	3	19	2	24
244	0	10	22	8	40
245	0	1	5	3	9
246	0	4	13	5	22
247	0	1	0	0	1
248	0	1	2	0	3
249	0	6	22	11	39
283	0	0	3	1	4
284	0	13	41	8	62
285	0	1	3	2	6
297	0	0	1	0	1
298	0	2	3	2	7
337	0	1	3	0	4
339	0	0	1	0	1
341	0	7	18	5	30
342	0	5	15	5	25
343	0	4	11	0	15
344	0	2	13	1	16
345	0	3	22	2	27
346	0	4	34	4	42
347	0	1	11	1	13
348	0	4	16	5	25
349	0	10	41	9	60

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
401	0	2	0	0	2
402	0	4	13	8	25
403	0	0	4	0	4
404	0	3	13	2	18
405	0	0	15	1	16
406	0	1	15	3	19
407	0	3	23	3	29
408	0	5	13	3	21
409	0	9	18	9	36
410	0	6	16	6	28
411	0	5	25	8	38
412	0	2	5	2	9
413	0	14	31	6	51
414	0	27	44	21	92
415	0	20	20	16	56
416	0	0	2	2	4
418	0	2	11	3	16
419	0	0	1	1	2
420	0	3	10	4	17
421	0	1	1	0	2
422	0	2	1	0	3
423	0	0	2	2	4
429	0	0	2	1	3
452	0	1	5	1	7
456	0	1	6	0	7
461	0	1	6	0	7
462	0	0	2	0	2
464	0	0	2	0	2
465	0	0	4	1	5
466	0	0	4	4	8
467	0	1	7	3	11
TOTAL	0	240	786	226	1,252

Table 8. Archery Harvest by Permit Area, 2004. Includes regular, youth, and bonus permits.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	13	2	21	4	40
107	18	3	27	1	49
110	7	2	29	1	39
115	26	6	21	2	55
116	7	0	7	0	14
122	2	0	0	0	2
126	12	3	10	0	25
127	3	0	1	1	5
152	1	1	3	0	5
154	62	26	119	19	226
156	51	27	99	18	195
157	114	55	238	36	443
159	74	15	129	24	242
167	9	2	3	0	14
168	30	5	34	4	73
170	59	11	93	14	177
172	49	23	81	11	164
174	24	8	46	6	84
175	38	4	20	2	64
178	52	14	49	5	120
180	56	3	23	2	84
181	172	22	125	18	337
183	61	10	74	11	156
197	13	0	13	2	28
199	5	0	0	0	5
201	0	1	1	0	2
202	8	5	11	2	26
203	1	0	0	0	1
204	25	1	35	1	62
205	37	6	59	11	113
206	20	3	28	6	57
207	10	0	25	1	36
208	6	0	10	2	18
209	23	2	21	3	49
210	7	4	23	3	37
211	13	2	24	2	41
214	4	3	9	0	16
221	43	40	121	34	238
222	35	16	65	14	130
223	83	47	123	25	278
224	10	8	9	1	28
225	115	53	169	24	361
227	179	67	238	45	529
228	230	94	271	59	654
235	15	1	13	4	33
236	233	88	303	66	690
242	75	41	158	37	311
243	39	22	115	20	196
244	59	26	141	21	247
245	83	42	166	39	330
246	74	32	119	18	243
247	69	39	115	32	255
248*	191	46	245	50	532
249	59	39	128	29	255
251	2	0	2	0	4
283	6	2	9	1	18
284	161	91	359	57	668
285	8	6	9	3	26

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
287	0	0	1	0	1
297	9	1	2	1	13
298	7	0	6	0	13
337	219	69	277	51	616
338	55	6	40	4	105
339	83	14	59	13	169
341	104	41	153	27	325
342	74	32	91	25	222
343	222	64	313	61	660
344	42	9	35	10	96
345	58	9	56	10	133
346	106	32	192	34	364
347	63	12	115	19	209
348	65	21	136	24	246
349	111	32	160	34	337
401	12	3	17	3	35
402	26	4	39	7	76
403	20	2	26	5	53
404	21	4	40	4	69
405	17	6	26	5	54
406	11	8	27	3	49
407	29	6	35	5	75
408	11	3	12	5	31
409	52	39	123	29	243
410	84	30	138	20	272
411	56	30	112	26	224
412	63	27	126	15	231
413	59	26	135	16	236
414	44	46	120	30	240
415	79	33	122	27	261
416	32	8	50	7	97
417	60	6	26	2	94
418	60	21	81	22	184
419	54	35	101	11	201
420	39	12	48	12	111
421	15	6	26	4	51
422	11	0	10	1	22
423	7	2	10	2	21
424	11	0	5	1	17
425	10	0	1	0	11
426	23	0	8	1	32
427	15	3	5	0	23
428	44	3	15	0	62
429	39	11	56	13	119
431	5	2	6	1	14
433	28	2	6	2	38
435	19	1	5	1	26
440	25	4	16	3	48
442	74	7	50	13	144
443	26	2	21	2	51
446	6	0	2	0	8
447	5	1	3	0	9
448	10	1	5	0	16
449	34	1	16	2	53
450	14	0	4	0	18
451	14	0	11	0	25
452	24	3	14	1	42
453	19	3	3	0	25

Table 8. (continued).

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
454	18	5	14	1	38
455	3	1	4	0	8
456	23	1	26	2	52
457	10	4	7	0	21
458	22	1	7	2	32
459	24	3	4	0	31
461	40	12	37	2	91
462	63	20	68	7	158

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
463	18	0	8	0	26
464	18	5	20	6	49
465	49	7	46	5	107
466	55	8	47	7	117
467	65	20	60	11	156
953	1	0	0	0	1
Total	5,815	1,899	8,075	1,448	17,237

*Includes Camp Ripley

Table 9. Archery Harvest using Bonus Permits by Permit Area, 2004.

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
104	1	1	15	1	17
107	1	1	11	0	12
110	1	2	24	0	26
115	1	3	11	0	14
126	1	2	7	0	9
154	1	19	91	16	126
156	1	7	21	4	32
157	1	37	152	21	210
159	1	2	30	6	38
168	1	2	19	4	25
170	1	6	69	7	82
172	1	14	61	8	83
174	1	3	28	3	34
175	1	2	9	2	13
178	1	4	19	1	24
181	1	3	29	5	37
183	1	0	4	2	6
201	2	1	0	0	1
202	2	5	9	2	16
204	2	1	30	0	31
205	2	5	48	6	59
206	2	2	22	3	27
207	2	0	19	0	19
208	2	0	10	1	11
209	2	2	15	3	20
210	2	4	22	3	29
211	2	2	10	1	13
214	2	0	3	0	3
221	2	11	17	5	33
222	2	6	26	2	34
223	2	35	95	23	153
224	2	5	7	1	13
225	2	46	142	21	209
227	2	45	154	37	236
228	2	35	72	21	128
235	2	1	8	4	13
236	2	44	123	26	193
242	2	35	141	32	208
243	2	12	68	15	95
244	2	24	125	20	169
245	2	36	148	32	216

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
246	2	28	92	11	131
247	2	30	99	28	157
248	2	26	173	32	231
249	2	16	72	19	107
251	2	0	2	0	2
283	2	1	6	1	8
284	2	83	312	48	443
285	2	5	7	2	14
287	2	0	1	0	1
297	2	1	0	1	2
298	2	0	5	0	5
337	3	53	208	41	302
338	3	5	31	4	40
339	3	7	46	9	62
341	3	20	97	15	132
342	3	14	37	9	60
343	3	32	126	26	184
344	3	1	2	3	6
345	3	4	7	2	13
346	3	7	38	8	53
347	3	4	32	8	44
348	3	3	21	8	32
349	3	7	29	13	49
401	4	3	16	3	22
402	4	4	32	7	43
403	4	2	23	5	30
404	4	4	34	3	41
405	4	6	24	4	34
406	4	6	25	2	33
407	4	6	34	3	43
408	4	3	11	5	19
409	4	36	110	25	171
410	4	25	123	18	166
411	4	27	93	20	140
412	4	26	105	12	143
413	4	19	78	11	108
414	4	8	18	5	31
415	4	12	66	16	94
416	4	7	44	4	55
418	4	17	62	20	99
419	4	32	91	11	134

Table 9. (Continued)

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
420	4	10	48	10	68
421	4	5	23	3	31
422	4	0	8	1	9
423	4	2	10	2	14
429	4	7	45	12	64
452	4	3	14	0	17
456	4	1	21	1	23
461	4	9	26	1	36

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
462	4	10	59	6	75
464	4	3	17	5	25
465	4	6	40	5	51
466	4	5	42	6	53
467	4	16	49	9	74
TOTAL		1,132	4,748	861	6,741

Table 10. Summary of Archery Special Hunts, 2004. Includes regular, youth, and bonus permits.

Area	Dates	Permits Issued	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
Camp Ripley	10/16-10/17	2,250	114	20	127	23	284
Camp Ripley	10/25-10/26	2,250	104	8	79	9	200
Cleary Lake	11/14-11/16	55	0	0	0	1	1
Crow-Hassan Park Reserve	11/14-11/16	130	4	1	5	1	11
Murphy-Hanrahan Park Reserve	11/14-11/16	185	7	4	11	1	23
City of New Ulm	10/11-12/31	50	2	2	13	3	20
City of Mankato	10/23-12/31	30	9	0	2	0	11
City of Red Wing	9/18-12/31	85**	3	6	8	1	18
Camp Ripley - Youth	10/9 - 10/10	150	1	0	7	1	9
Arden Hills - Site A	10/21 - 10/22	30	0	0	2	0	2
Arden Hills - Site B	10/23 - 10/24	30	3	0	0	0	3
Whitewater Youth*	10/21 - 10/24	50	1	0	0	0	1

*Total permits for this hunt was 50 and hunters could use either firearms or archery equipment.

**Total number of hunters. Permits were unlimited.

Table 11. Free Landowner Archery Harvest by Permit Area, 2004.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
181	0	0	1	0	1
221	0	0	0	1	1
244	0	0	1	1	2
283	0	0	1	0	1
284	0	1	0	0	1
341	0	0	0	1	1
342	0	0	2	0	2
343	0	4	4	1	9
347	0	0	0	1	1
349	0	0	1	0	1
405	0	0	1	0	1
410	0	0	0	1	1
413	0	2	0	0	2
414	0	1	0	0	1
415	0	0	1	0	1
456	0	0	1	0	1
467	0	0	1	0	1
TOTAL	0	8	14	6	28

Table 12. Muzzleloader Harvest by Permit Area, 2004. Includes regular muzzleloader, youth, and bonus permits.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	0	1	5	0	6
107	1	3	14	0	18
110	0	2	8	0	10
115	2	3	9	0	14
116	0	0	3	0	3
152	0	1	0	0	1
154	1	8	21	3	33
156	2	4	20	7	33
157	4	11	50	10	75
159	0	1	11	2	14
167	0	1	0	0	1
168	4	2	7	4	17
170	3	2	24	6	35
172	2	10	26	5	43
174	2	1	8	2	13
175	4	2	8	0	14
178	1	1	9	2	13
180	0	0	3	0	3
181	0	1	5	3	9
183	0	2	7	0	9
197	5	0	4	0	9
201	2	1	1	0	4
202	4	1	6	5	16
204	5	6	24	7	42
205	1	3	27	7	38
206	1	2	18	6	27
207	0	1	7	2	10
208	1	1	3	1	6
209	1	2	4	1	8
210	1	1	6	1	9
211	3	5	15	1	24
214	0	1	0	1	2
221	0	7	19	5	31
222	0	1	6	3	10
223	0	3	7	0	10
224	0	0	2	0	2
225	3	13	35	16	67
227	1	5	18	5	29
228	0	1	10	0	11
235	0	0	3	0	3
236	3	8	24	4	39
242	8	13	32	15	68
243	0	7	32	10	49
244	7	21	60	14	102
245	12	16	70	26	124
246	6	12	43	16	77
247	7	14	39	8	68
248	0	3	12	5	20
249	5	9	24	11	49
251	0	1	0	1	2
283	1	2	10	2	15
284	13	18	78	26	135
285	2	2	16	4	24
297	2	0	2	1	5
298	5	1	3	4	13
337	0	0	4	2	6
338	3	0	5	0	8

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
339	0	1	3	1	5
341	1	7	32	4	44
342	6	10	25	3	44
343	4	6	41	8	59
344	0	1	11	2	14
345	0	0	10	0	10
346	0	6	28	6	40
347	4	12	39	4	59
348	0	8	33	8	49
349	0	14	44	11	69
401	4	2	38	7	51
402	12	9	49	12	82
403	12	8	48	8	76
404	7	6	26	0	39
405	10	3	15	3	31
406	2	17	5	2	26
407	17	13	42	8	80
408	4	5	24	4	37
409	6	24	45	19	94
410	9	11	50	13	83
411	2	20	37	18	77
412	10	13	39	16	78
413	1	15	45	11	72
414	1	11	26	7	45
415	0	16	27	12	55
416	4	6	24	13	47
417	6	8	10	4	28
418	3	7	26	5	41
419	3	15	19	9	46
420	7	6	32	9	54
421	1	3	13	6	23
422	4	2	7	1	14
423	2	1	6	3	12
424	6	3	16	4	29
425	3	0	2	1	6
426	4	2	3	0	9
427	2	0	3	1	6
428	2	1	5	0	8
429	0	1	7	2	10
431	3	3	11	3	20
433	12	1	13	1	27
435	4	2	12	2	20
440	3	2	2	3	10
442	11	7	25	0	43
443	6	6	8	1	21
446	8	2	9	1	20
447	1	2	8	3	14
448	5	4	19	1	29
449	4	4	16	4	28
450	5	0	4	1	10
451	11	3	13	1	28
452	13	7	29	2	51
453	14	1	10	2	27
454	11	3	34	2	50
455	3	1	3	1	8
456	10	4	46	0	60
457	1	0	3	1	5

Table 12. (continued)

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
458	10	5	18	4	37
459	3	3	17	3	26
461	8	8	26	3	45
462	7	1	23	4	35
463	3	0	5	3	11
464	2	1	9	2	14
465	1	6	17	4	28
466	12	16	40	9	77
467	17	15	34	6	72

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
931	4	6	18	6	34
932	1	7	7	2	17
933	0	2	8	3	13
934	0	3	7	6	16
935	0	4	9	5	18
936	0	5	8	2	15
937	0	7	20	4	31
938	0	2	2	1	5
TOTAL	480	673	2,395	595	4,143

Table 13. Muzzleloader Harvest using Bonus Permits by Permit Area, 2004.

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
104	1	1	4	0	5
107	1	2	13	0	15
110	1	2	7	0	9
115	1	1	9	0	10
154	1	8	19	3	30
156	1	3	20	6	29
157	1	10	45	8	63
159	1	1	10	2	13
168	1	2	7	4	13
170	1	2	16	6	24
172	1	7	18	2	27
174	1	1	3	2	6
175	1	1	7	0	8
178	1	1	7	2	10
181	1	1	5	3	9
183	1	2	7	0	9
201	2	1	1	0	2
202	2	1	4	5	10
204	2	6	23	6	35
205	2	3	27	7	37
206	2	2	16	6	24
207	2	1	7	1	9
208	2	1	3	1	5
209	2	1	3	1	5
210	2	1	6	1	8
211	2	5	13	1	19
214	2	1	0	1	2
221	2	7	19	5	31
222	2	0	6	1	7
223	2	3	7	0	10
224	2	0	2	0	2
225	2	12	33	16	61
227	2	5	17	5	27
228	2	1	10	0	11
235	2	0	2	0	2
236	2	7	21	3	31
242	2	11	28	13	52
243	2	6	26	9	41
244	2	17	53	14	84
245	2	13	63	22	98
246	2	11	40	15	66
247	2	12	35	8	55
248	2	3	11	5	19
249	2	9	22	9	40
251	2	1	0	1	2
283	2	2	10	2	14
284	2	18	65	21	104
285	2	2	13	3	18
297	2	0	2	1	3
298	2	1	1	3	5
337	3	0	4	2	6
338	3	0	4	0	4
339	3	1	3	1	5
341	3	7	27	4	38
342	3	8	22	2	32
343	3	6	40	7	53
344	3	1	10	2	13
345	3	0	9	0	9

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
346	3	6	27	6	39
347	3	12	37	3	52
348	3	8	33	8	49
349	3	14	44	11	69
401	4	2	37	7	46
402	4	8	47	9	64
403	4	6	43	8	57
404	4	6	22	0	28
405	4	2	11	1	14
406	4	16	5	2	23
407	4	11	42	8	61
408	4	5	23	4	32
409	4	20	41	18	79
410	4	11	44	13	68
411	4	18	33	18	69
412	4	12	37	12	61
413	4	14	45	10	69
414	4	11	26	7	44
415	4	16	27	11	54
416	4	5	18	11	34
418	4	6	24	3	33
419	4	15	19	8	42
420	4	5	30	8	43
421	4	3	13	5	21
422	4	0	6	1	7
423	4	0	5	3	8
429	4	1	7	2	10
452	4	7	18	0	25
453	4	0	1	0	1
456	4	4	32	0	36
461	4	7	21	1	29
462	4	1	18	4	23
464	4	1	8	2	11
465	4	5	14	3	22
466	4	8	29	6	43
467	4	8	23	6	37
TOTAL		506	1,815	461	2,782

Table 14. Summary of Muzzleloader Special Hunts, 2004. Includes regular, youth, all-season, and bonus permits.

Area	Dates	Permits Issued	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
931 - Jay Cooke SP1	11/27 - 12/1	90*	10	6	20	7	43
932 - Crow Wing SP1	12/10 - 12/12	40**	2	7	9	3	21
933 - Afton SP1	12/10 - 12/11	40**	0	2	9	3	14
934 - Lake Shetek SP	12/4 - 12/7	25***	0	5	10	7	22
935 - Sibley SP	12/4 - 12/5	50**	0	4	15	6	25
	11/27-11/29 936 - Rice Lake SP1						
	12/4 - 12/5	15***	0	5	8	2	15
937 - Lake Louise SP	11/27 - 11/28	25***	0	8	20	4	32
938 - Interstate SP	11/27 - 12/5	15***	0	2	4	1	7
TOTAL			12	39	95	33	179

¹Bonus permits available *Either Sex first two days only **Either Sex ***Antlerless Only

Table 15. Free Landowner Muzzleloader Harvest by Permit Area, 2004.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
157	0	1	0	0	1
170	0	1	0	0	1
181	0	0	2	0	2
205	0	0	0	1	1
206	0	0	1	0	1
225	0	0	1	0	1
243	0	1	0	0	1
244	0	0	1	1	2
246	0	1	0	1	2
249	0	0	1	0	1
341	0	1	0	0	1
344	0	1	0	0	1
346	0	0	1	0	1
347	0	0	1	0	1
349	0	0	2	0	2
402	0	0	3	0	3
404	0	0	1	0	1
405	0	0	1	0	1
410	0	0	1	0	1
411	0	0	2	1	3
414	0	0	2	1	3
415	0	1	2	0	3
416	0	1	0	0	1
422	0	0	0	1	1
462	0	0	1	0	1
Total	0	8	23	6	37

Table 16. Firearms All-Season Deer Harvest by Permit Area, 2004.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	87	6	39	5	137
107	119	11	42	7	179
110	43	2	40	4	89
115	122	10	43	7	182
116	13	1	0	1	15
122	36	0	4	1	41
126	29	3	11	1	44
127	11	0	1	0	12
152	13	1	6	0	20
154	98	18	47	17	180
156	87	17	56	9	169
157	124	28	98	17	267
159	52	11	50	9	122
167	73	7	45	14	139
168	141	23	68	14	246
170	201	36	115	20	372
172	121	42	122	25	310
174	80	11	39	11	141
175	84	11	46	6	147
178	86	18	54	7	165
180	112	8	20	1	141
181	106	15	49	7	177
183	77	11	48	5	141
197	130	12	29	8	179
199	4	0	0	0	4
Zone 1 Total	2,049	302	1,072	196	3,619

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	9	3	3	0	15
202	12	3	12	1	28
203	13	0	5	0	18
204	49	6	37	5	97
205	68	12	42	6	128
206	34	8	30	5	77
207	25	3	16	2	46
208	14	3	20	3	40
209	27	5	31	4	67
210	47	7	32	9	95
211	97	14	49	9	169
214	6	1	3	0	10
221	50	25	49	20	144
222	44	12	27	9	92
223	41	3	23	13	80
224	16	2	4	2	24
225	69	19	44	21	153
227	65	8	31	6	110
228	17	1	11	2	31
235	4	2	5	0	11
236	37	5	32	9	83
242	37	9	40	10	96
243	91	24	84	21	220
244	147	50	119	36	352
245	158	37	113	32	340
246	145	38	112	32	327
247	48	16	30	6	100
248	31	12	29	7	79
249	61	27	66	14	168
251	12	0	8	1	21
283	16	4	13	0	33
284	234	48	183	31	496
285	29	3	21	1	54
287	7	1	7	3	18
297	28	2	12	2	44
298	52	16	24	8	100
Zone 2 Total	1,840	429	1,367	330	3,966

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
337	27	5	6	3	41
338	27	3	4	3	37
339	26	4	7	1	38
341	49	8	17	2	76
342	41	3	9	1	54
343	58	5	15	2	80
344	28	8	5	1	42
345	35	2	7	1	45
346	39	7	24	6	76
347	56	8	16	2	82
348	50	6	18	2	76
349	86	9	26	3	124
Zone 3 Total	522	68	154	27	771

Table 16. (Continued).

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
401	30	4	18	3	55
402	34	4	29	3	70
403	22	3	23	7	55
404	68	8	41	6	123
405	46	6	38	6	96
406	46	7	32	8	93
407	111	22	77	18	228
408	65	16	48	12	141
409	226	56	169	45	496
410	240	55	163	44	502
411	233	49	171	53	506
412	200	37	127	30	394
413	146	45	132	39	362
414	178	51	141	44	414
415	164	60	118	52	394
416	115	22	86	13	236
417	239	26	110	19	394
418	173	47	117	25	362
419	123	44	87	31	285
420	61	10	55	15	141
421	34	10	27	7	78
422	31	2	12	3	48
423	36	4	24	4	68
424	77	7	30	5	119
425	31	3	3	0	37
426	71	6	30	4	111
427	50	6	17	2	75
428	94	7	35	7	143
429	34	16	45	11	106
431	28	2	16	1	47
433	101	9	45	7	162
435	90	4	27	3	124
440	107	11	44	6	168
442	162	6	45	12	225
443	58	4	17	6	85
446	41	5	16	0	62
447	59	3	19	2	83
448	42	5	26	1	74
449	105	3	32	7	147
450	33	0	9	1	43
451	55	1	17	4	77
452	33	5	20	2	60
453	52	1	21	3	77
454	119	9	36	4	168
455	21	1	6	0	28
456	82	6	48	8	144
457	67	6	20	2	95
458	76	6	17	3	102
459	110	7	28	8	153
461	96	16	65	15	192
462	114	16	70	11	211
463	52	5	21	2	80
464	55	14	30	7	106
465	51	7	25	2	85
466	109	13	74	12	208
467	84	13	46	8	151
Zone 4 Total	4,980	811	2,845	653	9,289

Special Hunts					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
901	3	0	0	0	3
902	11	0	8	1	20
904	1	0	0	0	1
911	7	1	6	0	14
912	0	0	1	0	1
922	10	5	6	0	21
Special Hunts Total	32	6	21	1	60

GRAND TOTAL	9,423	1,616	5,459	1,207	17,705
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Table 17. Archery All-Season Deer Harvest by Permit Area, 2004.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	3	0	3	0	6
107	6	1	9	1	17
110	3	1	3	0	7
115	2	0	5	0	7
116	2	0	1	0	3
122	1	0	3	0	4
126	8	0	4	0	12
127	0	0	0	0	0
152	0	0	0	0	0
154	6	4	12	2	24
156	6	2	11	1	20
157	17	11	18	4	50
159	16	2	13	2	33
167	1	0	4	0	5
168	7	1	9	2	19
170	38	1	17	3	59
172	12	2	11	1	26
174	14	1	10	1	26
175	8	0	5	0	13
178	8	3	12	2	25
180	21	2	23	1	47
181	25	5	15	1	46
183	11	5	9	1	26
197	9	0	5	1	15
199	0	0	0	0	0
Zone 1 Total	224	41	202	23	490

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	0	0	0	0	0
202	1	0	1	0	2
203	0	0	0	0	0
204	0	1	2	0	3
205	6	1	1	0	8
206	1	0	7	0	8
207	1	1	1	0	3
208	0	0	1	0	1
209	2	0	3	1	6
210	5	0	5	1	11
211	8	1	2	1	12
214	2	0	1	0	3
221	9	4	17	6	36
222	9	4	19	2	34
223	20	5	22	4	51
224	0	0	11	0	11
225	17	4	7	3	31
227	29	6	23	6	64
228	22	1	10	2	35
235	0	0	0	0	0
236	22	6	17	1	46
242	14	4	13	3	34
243	6	3	22	2	33
244	13	3	26	3	45
245	15	8	23	3	49
246	13	3	18	7	41
247	9	3	13	2	27
248	68	7	38	3	116
249	14	6	19	1	40
251	0	0	0	0	0
283	2	1	1	1	5
284	32	6	24	4	66
285	3	1	4	1	9
287	0	0	0	0	0
297	1	1	1	0	3
298	3	0	2	0	5
Zone 2 Total	347	80	354	57	838

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
337	36	2	16	2	56
338	13	1	8	2	24
339	7	2	4	2	15
341	9	1	8	1	19
342	4	2	11	1	18
343	23	3	23	0	49
344	8	0	2	0	10
345	5	0	8	1	14
346	20	0	14	1	35
347	14	0	14	2	30
348	12	5	9	2	28
349	12	3	11	0	26
Zone 3 Total	163	19	128	14	324

Table 17. (Continued).

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
401	1	0	2	0	3
402	4	1	6	1	12
403	1	0	3	0	4
404	4	1	6	0	11
405	7	2	3	1	13
406	6	1	7	0	14
407	10	3	17	0	30
408	1	0	5	0	6
409	22	15	54	9	100
410	30	11	30	2	73
411	30	6	45	8	89
412	32	7	25	3	67
413	34	2	36	6	78
414	28	7	27	4	66
415	39	11	32	7	89
416	8	2	8	1	19
417	54	2	42	5	103
418	40	5	29	1	75
419	30	5	21	2	58
420	11	0	7	0	18
421	5	0	4	0	9
422	3	0	1	2	6
423	4	1	3	0	8
424	8	2	11	1	22
425	3	2	3	0	8
426	12	2	9	0	23
427	15	3	4	0	22
428	37	3	26	3	69
429	6	6	10	3	25
431	6	0	7	2	15
433	22	1	11	2	36
435	17	4	13	1	35
440	12	2	17	0	31
442	31	8	44	4	87
443	18	0	11	4	33
446	12	2	3	1	18
447	8	1	4	2	15
448	11	1	10	0	22
449	12	1	13	2	28
450	9	0	17	1	10

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
451	4	0	44	2	15
452	5	0	11	1	10
453	5	0	3	1	12
454	12	1	4	0	30
455	4	1	10	0	9
456	15	3	13	1	29
457	13	2	0	0	25
458	15	1	9	0	22
459	19	2	4	3	43
461	16	3	6	1	27
462	20	2	17	1	40
463	7	1	4	3	21
464	13	0	10	0	23
465	9	2	8	1	20
466	20	3	14	1	38
467	14	0	7	2	23
Zone 4 Total	834	141	767	95	1,837
GRAND TOTAL	1,568	281	1,451	189	3,489

Table 18. Muzzleloader All-Season Deer Harvest by Permit Area, 2004.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	10	4	7	1	22
107	7	1	9	2	19
110	3	0	3	0	6
115	12	4	20	2	38
116	0	0	1	0	1
122	1	0	2	0	3
126	0	0	2	0	0
127	0	0	0	0	0
152	1	0	3	0	4
154	13	5	19	4	41
156	11	4	15	2	32
157	9	5	32	7	53
159	4	4	10	1	19
167	5	0	4	0	9
168	8	2	16	1	27
170	19	8	35	8	70
172	22	9	22	1	54
174	8	4	9	3	24
175	9	0	14	2	25
178	10	1	15	3	29
180	12	0	18	0	30
181	12	5	22	1	40
183	8	3	13	3	27
197	7	0	10	1	18
199	2	0	0	0	2
Zone 1 Total	193	59	301	42	595

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
337	9	3	4	1	17
338	6	5	6	0	17
339	2	1	7	1	11
341	12	3	9	4	28
342	9	6	24	5	44
343	22	7	27	2	58
344	12	3	19	2	36
345	5	3	12	0	20
346	6	0	24	0	30
347	18	2	27	2	49
348	8	4	17	4	33
349	23	6	19	2	50
Zone 3 Total	132	43	195	23	393

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	2	1	0	1	4
202	2	1	9	0	12
203	0	0	1	0	1
204	18	1	17	3	39
205	13	6	12	2	33
206	14	3	13	0	30
207	7	0	7	1	15
208	4	0	5	1	10
209	10	2	4	0	16
210	6	0	5	0	11
211	12	5	17	4	38
214	0	1	1	0	2
221	15	12	21	4	52
222	9	4	12	2	27
223	13	7	10	5	35
224	0	0	1	0	1
225	23	11	21	6	61
227	16	7	19	6	48
228	6	1	4	0	11
235	4	0	1	0	5
236	14	5	26	4	49
242	10	3	16	4	33
243	14	2	14	7	37
244	29	5	32	8	74
245	23	16	32	6	77
246	19	15	22	10	66
247	11	2	19	0	32
248	8	0	4	2	14
249	13	5	26	6	50
251	0	0	0	1	1
283	3	0	0	0	3
284	36	9	38	10	93
285	3	2	7	0	12
287	0	0	0	0	0
297	6	3	1	1	11
298	1	2	4	1	8
Zone 2 Total	364	131	421	95	1,011

Table 18. (Continued).

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
401	16	1	14	2	33
402	25	1	13	1	40
403	22	7	18	1	48
404	18	4	19	1	42
405	10	4	16	1	31
406	6	1	8	0	15
407	29	6	21	5	61
408	8	3	11	2	24
409	33	9	39	7	88
410	54	11	36	15	116
411	21	14	30	14	79
412	32	11	32	8	83
413	36	11	38	18	103
414	17	6	14	5	42
415	17	12	24	7	60
416	15	3	29	2	49
417	39	13	74	8	134
418	20	9	31	10	70
419	23	10	18	5	56
420	24	8	16	3	51
421	14	4	18	5	41
422	14	2	12	3	31
423	10	5	3	1	19
424	17	6	43	0	66
425	13	5	17	2	37
426	16	3	10	1	30
427	6	2	23	6	37
428	18	15	26	4	63
429	5	1	11	1	18
431	10	5	19	7	41
433	27	12	59	4	102
435	19	7	41	2	69
440	14	4	21	3	42
442	37	13	63	11	124
443	11	9	39	5	64
446	17	3	32	2	54
447	12	1	26	6	45
448	15	6	26	0	47
449	20	5	42	3	70
450	14	1	14	1	30
451	18	0	25	7	50
452	11	0	11	2	24
453	27	4	32	2	65
454	39	14	63	7	123
455	3	2	7	0	12
456	17	6	27	2	52

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
457	16	8	25	4	53
458	12	2	29	4	47
459	25	5	53	4	87
461	17	8	20	5	50
462	11	7	39	5	62
463	17	1	22	2	42
464	11	4	16	1	32
465	9	2	19	3	33
466	30	7	32	6	75
467	19	9	24	3	55
Zone 4 Total	1,056	332	1,490	239	3,117

Special Hunts					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
931	6	0	2	1	9
932	1	0	2	1	4
933	0	0	1	0	1
934	0	2	3	1	6
935	0	0	6	1	7
937	0	1	2	0	3
Special Hunts Total	7	3	16	4	30

GRAND TOTAL	1,752	568	2,423	403	5,146
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Table 19. Total All-Season Deer Harvest by Permit Area, 2004.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	100	10	49	6	165
107	132	13	60	10	215
110	49	3	46	4	102
115	136	14	68	9	227
116	15	1	2	1	19
122	38	0	9	1	48
126	37	3	17	1	58
127	11	0	1	0	12
152	14	1	9	0	24
154	117	27	78	23	245
156	104	23	82	12	221
157	150	44	148	28	370
159	72	17	73	12	174
167	79	7	53	14	153
168	156	26	93	17	292
170	258	45	167	31	501
172	155	53	155	27	390
174	102	16	58	15	191
175	101	11	65	8	185
178	104	22	81	12	219
180	145	10	61	2	218
181	143	25	86	9	263
183	96	19	70	9	194
197	146	12	44	10	212
199	6	0	0	0	6
Zone 1 Total	2,466	402	1,575	261	4,704

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
337	72	10	26	6	114
338	46	9	18	5	78
339	35	7	18	4	64
341	70	12	34	7	123
342	54	11	44	7	116
343	103	15	65	4	187
344	48	11	26	3	88
345	45	5	27	2	79
346	65	7	62	7	141
347	88	10	57	6	161
348	70	15	44	8	137
349	121	18	56	5	200
Zone 3 Total	817	130	477	64	1,488

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	11	4	3	1	19
202	15	4	22	1	42
203	13	0	6	0	19
204	67	8	56	8	139
205	87	19	55	8	169
206	49	11	50	5	115
207	33	4	24	3	64
208	18	3	26	4	51
209	39	7	38	5	89
210	58	7	42	10	117
211	117	20	68	14	219
214	8	2	5	0	15
221	74	41	87	30	232
222	62	20	58	13	153
223	74	15	55	22	166
224	16	2	16	2	36
225	109	34	72	30	245
227	110	21	73	18	222
228	45	3	25	4	77
235	8	2	6	0	16
236	73	16	75	14	178
242	61	16	69	17	163
243	111	29	120	30	290
244	189	58	177	47	471
245	196	61	168	41	466
246	177	56	152	49	434
247	68	21	62	8	159
248	107	19	71	12	209
249	88	38	111	21	258
251	12	0	8	2	22
283	21	5	14	1	41
284	302	63	245	45	655
285	35	6	32	2	75
287	7	1	7	3	18
297	35	6	14	3	58
298	56	18	30	9	113
Zone 2 Total	2,551	640	2,42	482	5,815

Table 19. (Continued).

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
401	47	5	34	5	91
402	63	6	48	5	122
403	45	10	44	8	107
404	90	13	66	7	176
405	63	12	57	8	140
406	58	9	47	8	122
407	150	31	115	23	319
408	74	19	64	14	171
409	281	80	262	61	684
410	324	77	229	61	691
411	284	69	246	75	674
412	264	55	184	41	544
413	216	58	206	63	543
414	223	64	182	53	522
415	220	83	174	66	543
416	138	27	123	16	304
417	332	41	226	32	631
418	233	61	177	36	507
419	176	59	126	38	399
420	96	18	78	18	210
421	53	14	49	12	128
422	48	4	25	8	85
423	50	10	30	5	95
424	102	15	84	6	207
425	47	10	23	2	82
426	99	11	49	5	164
427	71	11	44	8	134
428	149	25	87	14	275
429	45	23	66	15	149
431	44	7	42	10	103
433	150	22	115	13	300
435	126	15	81	6	228
440	133	17	82	9	241
442	230	27	152	27	436
443	87	13	67	15	182
446	70	10	51	3	134
447	79	5	49	10	143
448	68	12	62	1	143
449	137	9	87	12	245
450	56	1	23	3	83
451	77	1	51	13	142
452	49	5	35	5	94
453	84	5	59	6	154
454	170	24	116	11	321

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
455	28	4	17	0	49
456	114	15	85	11	225
457	96	16	55	6	173
458	103	9	52	7	171
459	154	14	100	15	283
461	129	27	92	21	269
462	145	25	126	17	313
463	76	7	53	7	143
464	79	18	56	8	161
465	69	11	52	6	138
466	159	23	120	19	321
467	117	22	77	13	229
Zone 4 Total	6,870	1,284	5,102	987	14,243

Special Hunts					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
901	3	0	0	0	3
902	11	0	8	1	20
904	1	0	0	0	1
911	7	1	6	0	14
912	0	0	1	0	1
922	10	5	6	0	21
931	6	0	2	1	9
932	1	0	2	1	4
933	0	0	1	0	1
934	0	2	3	1	6
935	0	0	6	1	7
937	0	1	2	0	3
Special Hunts Total	39	9	37	5	90

GRAND TOTAL	12,743	2,465	9,333	1,799	26,340
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Table 20. Total Deer Harvest by Permit Area, 2004.
Includes all license types, permits, and special hunts.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
104	1,586	229	954	133	2,902
107	2,277	305	1,245	200	4,027
110	593	147	653	116	1,509
115	2,663	297	1,234	223	4,417
116	249	5	38	3	295
122	567	14	121	14	716
126	587	34	195	21	837
127	145	1	17	2	165
152	152	19	64	11	246
154	2,049	673	2,029	425	5,176
156	1,997	526	1,678	383	4,584
157	3,030	1,069	2,788	719	7,606
159	1,514	462	1,582	313	3,871
167	819	117	435	92	1,463
168	1,889	407	1,391	291	3,978
170	3,233	829	2,586	506	7,154
172	2,147	702	2,215	426	5,490
174	1,596	367	1,137	246	3,346
175	2,319	353	1,365	217	4,254
178	2,756	459	1,709	343	5,267
180	1,927	90	408	40	2,465
181	2,493	430	1,326	241	4,490
183	1,769	436	1,319	256	3,780
197	1,143	115	403	62	1,723
199	130	8	31	3	172
201	69	19	67	14	169
202	281	73	239	49	642
203	103	19	74	26	222
204	696	150	588	129	1,563
205	1,326	339	1,156	285	3,106
206	617	168	629	139	1,553
207	422	106	420	82	1,030
208	272	73	291	83	719
209	622	173	459	152	1,406
210	771	195	673	189	1,828
211	1,408	231	846	136	2,621
214	55	11	39	5	110
221	1,053	468	1,041	414	2,976
222	869	319	713	239	2,140
223	610	216	541	152	1,519
224	157	59	161	26	403
225	1,514	567	1,174	402	3,657
227	1,131	349	883	236	2,599
228	520	139	470	98	1,227
235	96	16	70	15	197
236	1,027	288	924	229	2,468
242	740	335	885	284	2,244
243	1,218	530	1,493	444	3,685
244	2,390	1,026	2,483	803	6,702
245	2,449	932	2,286	710	6,377
246	2,527	1,039	2,459	757	6,782
247	955	381	992	254	2,582
248	739	224	713	188	1,864
249	1,327	619	1,373	481	3,800
251	183	50	111	43	387
283	220	68	253	72	613
284	4,322	1,448	4,082	1,095	10,947

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
285	526	169	536	129	1,360
287	182	54	157	32	425
297	307	54	162	40	563
298	894	198	485	156	1,733
337	567	143	502	109	1,321
338	363	72	219	49	703
339	336	68	213	48	665
341	1,043	263	845	190	2,341
342	781	228	660	161	1,830
343	1,139	293	984	210	2,626
344	607	119	378	71	1,175
345	655	141	461	91	1,348
346	1,237	296	1,090	247	2,870
347	850	271	745	170	2,036
348	974	243	896	208	2,321
349	1,675	396	1,253	283	3,607
401	288	50	249	41	628
402	400	118	439	105	1,062
403	400	101	434	90	1,025
404	780	175	779	148	1,882
405	608	144	599	121	1,472
406	554	175	462	145	1,336
407	683	234	658	219	1,794
408	500	176	473	136	1,285
409	1,621	671	1,598	559	4,449
410	2,177	678	1,710	580	5,145
411	1,938	819	1,642	585	4,984
412	1,394	412	1,237	344	3,387
413	1,289	493	1,197	401	3,380
414	1,452	689	1,387	597	4,125
415	1,056	483	980	350	2,869
416	678	137	520	119	1,454
417	1,192	190	718	145	2,245
418	880	334	791	230	2,235
419	588	214	480	125	1,407
420	433	112	420	127	1,092
421	267	76	264	56	663
422	197	44	128	30	399
423	209	41	146	42	438
424	429	54	250	40	773
425	202	23	78	15	318
426	378	54	206	34	672
427	321	21	161	19	522
428	462	80	257	49	848
429	260	73	224	54	611
431	206	33	144	29	412
433	536	74	350	44	1,004
435	495	61	268	48	872
440	517	56	322	48	943
442	809	109	465	81	1,464
443	319	60	208	56	643
446	302	34	206	16	558
447	291	33	174	23	521
448	371	49	286	29	735
449	526	65	319	58	968
450	236	16	138	16	406
451	379	44	213	40	676

Table 20. (Continued).

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
452	331	67	240	38	676
453	340	25	172	26	563
454	626	94	380	49	1,149
455	82	12	52	3	149
456	480	85	446	54	1,065
457	367	51	215	38	671
458	389	50	196	41	676
459	545	52	312	43	952
461	527	170	480	104	1,281
462	589	121	529	86	1,325
463	245	34	176	33	488
464	292	67	240	37	636
465	307	55	234	39	635
466	607	129	500	130	1,366
467	533	122	430	81	1166
901	12	1	6	0	19
902	93	34	90	39	256
903	0	1	15	4	20
904	9	11	13	1	34
905	5	0	2	0	7
906	5	3	20	3	31
907	1	0	1	0	2
909	10	4	16	3	33
910	0	1	10	7	18
911	35	14	63	8	120
912	0	2	11	7	20
913	1	4	13	2	20
914	22	5	13	3	43
915	1	1	7	2	11
916	0	9	19	4	32
917	23	10	30	3	66
918	0	4	21	4	29
919	0	2	10	1	13
920	0	1	12	3	16
922	34	19	41	14	108
931	10	6	20	7	43
932	2	7	9	3	21
933	0	2	9	3	14
934	0	5	10	7	22
935	0	4	15	6	25
936	0	5	8	2	15
937	0	9	24	4	37
938	0	1	0	1	2
953	4	0	5	2	11
954	0	3	6	2	11
956	4	2	3	1	10
TOTAL	115,609	30,541	91,801	22,653	260,604

*Includes Camp Ripley data

Table 21. Antlerless Lottery Distribution Report, 2004.

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
116	1	145	3	77	65	100	0.0 %
	2	36	1	0	35		
		181	4	77	100		
122	1	659	7	211	441	500	0.0 %
	2	56	3	0	53		
	3	9	3	0	6		
	4	1	1	0	0		
		725	14	211	500		
127	1	116	1	22	93	100	0.0 %
	2	9	2	0	7		
		125	3	22	100		
152	1	283	12	48	223	250	0.0 %
	2	26	1	0	25		
	3	4	2	0	2		
	4	1	1	0	0		
		314	16	48	250		
167	1	1,781	56	0	1,725	2,000	0.7 %
	2	265	14	0	251		
	3	12	3	0	9		
	4	2	1	0	1		
		2,060	74	0	1,986		
180	1	1,408	58	0	1,350	1,900	21.2 %
	2	103	2	0	101		
	3	45	0	0	45		
	4	3	1	0	2		
		1,559	61	0	1,498		
197	1	1,513	42	21	1,450	1,600	0.0 %
	2	138	14	0	124		
	3	24	4	0	20		
	4	4	0	0	4		
	5	2	0	0	2		
		1,681	60	21	1,600		
199	1	127	4	0	123	150	11.3 %
	2	10	0	0	10		
	3	1	1	0	00		
		138	5	0	133		
338 A	1	162	9	25	128	150	0.0 %
	2	24	4	0	20		
	3	2	0	0	2		
		188	13	25	150		
339 A	1	136	7	3	126	150	0.0 %
	2	25	1	0	24		
		161	8	3	150		
341 A	1	414	17	0	397	600	33.2 %
	2	7	4	0	3		
	3	2	1	0	1		
		423	22	0	401		
342 A	1	318	15	0	303	500	38.8 %
	2	10	7	0	3		
		328	22	0	306		

Table 21. (Continued).

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
343 A	1	291	18	0	273	600	53.5 %
	2	8	3	0	5		
	3	1	0	0	1		
		300	21	0	279		
344 A	1	401	37	0	364	400	7.0 %
	2	13	5	0	8		
		414	42	0	372		
345 A	1	256	4	0	252	400	36.0 %
	2	8	4	0	4		
		264	8	0	256		
346 A	1	370	13	0	357	800	53.4 %
	2	23	8	0	15		
	3	1	0	0	1		
		394	21	0	373		
347 A	1	250	8	0	242	500	51.0 %
	2	6	3	0	3		
		256	11	0	245		
348 A	1	370	12	0	358	700	48.7 %
	2	5	4	0	1		
		375	16	0	359		
349 A	1	449	16	0	433	900	50.9 %
	2	9	1	0	8		
	3	3	2	0	1		
		461	19	0	442		
417 A	1	1,609	66	0	1,543	2,200	27.7 %
	2	51	11	0	40		
	3	10	3	0	7		
		1,670	80	0	1,590		
417 B	1	788	38	0	750	1200	36.3 %
	2	17	4	0	13		
	3	2	0	0	2		
		807	42	0	765		
424 A	1	417	11	222	184	300	0.0 %
	2	121	5	0	116		
	3	2	2	0	0		
	4	1	1	0	0		
		541	19	222	300		
424 B	1	296	9	2	285	300	0.0 %
	2	16	2	0	14		
	3	4	3	0	1		
	4	1	1	0	0		
		317	15	2	300		
425 A	1	166	6	88	72	100	0.0 %
	2	31	3	0	28		
	4	1	1	0	0		
		198	10	88	100		
425 B	1	120	7	19	94	100	0.0 %
	2	7	1	0	6		
	4	1	1	0	0		
		128	9	19	100		

Table 21. (Continued).

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
426 A	1	362	12	0	350	400	7.5 %
	2	20	2	0	18		
	3	4	2	0	2		
		386	16	0	370		
426 B	1	228	3	0	225	300	22.0 %
	2	7	1	0	6		
	3	2	0	0	2		
	4	1	0	0	1		
		238	4	0	234		
427 A	1	211	19	192	0	100	0.0 %
	2	155	2	125	28		
	3	72	3	0	69		
	4	4	1	0	3		
		442	25	317	100		
427 B	1	144	3	120	21	100	0.0 %
	2	71	3	0	68		
	3	9	0	0	9		
	4	2	0	0	2		
		226	6	120	100		
428 A	1	489	22	0	467	600	14.0 %
	2	51	4	0	47		
	3	5	3	0	2		
		545	29	0	516		
428 B	1	363	15	0	348	500	27.8 %
	2	17	4	0	13		
	3	3	3	0	0		
		383	22	0	361		
431 A	1	190	8	111	71	150	0.0 %
	2	82	3	0	79		
	3	2	2	0	0		
		274	13	111	150		
431 B	1	143	4	39	100	150	0.0 %
	2	53	3	0	50		
		196	7	39	150		
433 A	1	438	28	205	205	400	0.0 %
	2	205	11	0	194		
	3	4	4	0	0		
	4	2	1	0	1		
		649	44	205	395		
433 B	1	348	7	0	341	400	1.3 %
	2	54	3	0	51		
	3	4	2	0	2		
	4	3	2	0	1		
	5	1	1	0	0		
		410	15	0	395		
435 A	1	565	24	35	506	550	0.0 %
	2	55	14	0	41		
	3	4	1	0	3		
	4	1	1	0	0		
		625	40	35	550		
435 B	1	318	9	0	309	350	9.4 %
	2	9	1	0	8		
		327	10	0	317		

Table 21. (Continued).

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
440 A	1	503	31	315	157	450	0.0 %
	2	300	9	0	291		
	3	6	5	0	1		
	4	1	0	0	1		
		810	45	315	450		
440 B	1	247	10	0	237	300	14.3 %
	2	24	4	0	20		
	3	2	2	0	0		
	4	1	1	0	0		
		274	17	0	257		
442 A	1	535	29	506	0	400	0.0 %
	2	368	7	27	334		
	3	69	4	0	65		
	4	2	1	0	1		
		974	41	533	400		
442 B	1	372	19	113	240	400	0.0 %
	2	165	5	0	160		
	3	1	1	0	0		
		538	25	113	400		
443 A	1	252	12	181	59	225	0.0 %
	2	169	3	0	166		
	3	1	1	0	0		
		422	16	181	225		
443 B	1	193	10	14	169	225	0.0 %
	2	59	3	0	56		
	4	1	1	0	0		
		253	14	14	225		
446 A	1	203	10	45	148	200	0.0 %
	2	56	4	0	52		
	3	1	1	0	0		
	4	1	1	0	0		
		261	16	45	200		
446 B	1	214	8	22	184	200	0.0 %
	2	18	2	0	16		
	3	2	2	0	0		
		234	12	22	200		
447 A	1	248	15	112	121	200	0.0 %
	2	77	6	0	71		
	3	10	2	0	8		
	4	1	1	0	0		
		336	24	112	200		
447 B	1	135	8	0	127	200	30.0 %
	2	13	2	0	11		
	3	3	2	0	1		
	4	1	0	0	1		
		152	12	0	140		

Table 21. (Continued).

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
448 A	1	403	12	0	391	500	19.2 %
	2	16	3	0	13		
	3	2	2	0	0		
		421	17	0	404		
448 B	1	124	4	0	120	300	58.7 %
	2	5	1	0	4		
	3	3	3	0	0		
		132	8	0	124		
449 A	1	459	23	0	436	575	20.0 %
	2	29	6	0	23		
	3	3	2	0	1		
	4	1	1	0	0		
		493	32	1	460		
450 A	1	207	10	0	197	300	27.7 %
	2	28	8	0	20		
		235	18	0	217		
450 B	1	133	4	0	129	200	31.5 %
	2	11	3	0	8		
		144	7	0	137		
451 A	1	179	9	0	170	300	24.0 %
	2	57	2	0	55		
	3	6	3	0	3		
		242	14	0	228		
451 B	1	149	1	0	148	300	38.3 %
	2	39	3	0	36		
	3	2	1	0	1		
	4	1	1	0	0		
		191	6	0	185		
453 A	1	213	12	0	201	300	19.3 %
	2	47	7	0	40		
	3	1	0	0	1		
		261	19	0	242		
453 B	1	123	3	0	120	300	55.7 %
	2	14	1	0	13		
	3	1	1	0	0		
		138	5	0	133		
454 A	1	496	24	0	472	700	26.3 %
	2	40	1	0	39		
	3	7	3	0	4		
	4	1	0	0	1		
		544	28	0	516		
454 B	1	306	17	3	286	300	26.3 %
	2	14	1	0	13		
	3	3	2	0	1		
		323	20	3	300		
455 A	1	51	5	5	41	55	0.0 %
	2	14	0	0	14		
		65	5	5	55		
455 B	1	44	1	0	43	55	9.1 %
	2	7	0	0	7		
		51	1	0	50		

Table 21. (Continued).

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
457 A	1	293	23	0	270	400	3.0 %
	2	128	10	0	118		
		421	33	0	388		
457 B	1	201	8	97	96	150	0.0 %
	2	55	1	0	54		
		256	9	97	150		
458 A	1	248	14	0	234	400	30.0 %
	2	51	5	0	46		
	3	3	3	0	0		
		302	22	0	280		
458 B	1	205	13	11	181	200	0.0 %
	2	23	4	0	19		
	3	1	1	0	0		
		229	18	11	200		
459 A	1	513	15	0	498	650	21.5 %
	2	16	5	0	11		
	3	3	2	0	1		
	4	1	1	0	0		
		533	23	0	510		
459 B	1	359	7	0	352	450	21.1 %
	2	8	5	0	3		
		367	12	0	355		
463 A	1	297	14	0	283	350	0.3 %
	2	68	2	0	66		
	3	1	1	0	0		
		366	17	0	349		
463 B	1	164	2	0	162	350	51.4 %
	2	8	0	0	8		
		172	2	0	170		
TOTAL		28,454	1,361	2,982	24,111	30,760	

Table 22. Special Permit Areas for Firearms Hunters, 2004

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	Bonus Permits
		Total	Rejected				
901-Rice Lake Nat. Wildlife Refuge	1	38	0	1	37	40	No
	2	5	0	0	5		
		43	0	1	42		
902-St. Croix State Park	1	545	0	30	515	550	Yes
	2	36	0	0	36		
	3	1	0	0	1		
		582	0	30	552		
903-Savanna Portage State Park	1	21	0	0	21	25	Yes
	2	3	0	0	3		
		24	0	0	24		
904-Gooseberry Falls State Park	1	22	0	0	22	25	Yes
		22	0	0	22		
905-Split Rock Lighthouse State Park	1	24	0	0	24	25	Yes
		24	0	0	24		
906-Tettegouche State Park	1	59	0	0	59	125	Yes
	2	3	0	0	3		
		62	0	0	62		
907-Scenic State Park	1	18	0	0	18	30	Yes
	2	6	0	0	6		
		24	0	0	24		
908-Lake Bronson State Park	1	16	0	0	16	25	Yes
		16	0	0	16		
909-William O'Brien State Park	1	82	0	51	31	65	Yes
	2	34	0	0	34		
		116	0	51	65		
910-Zipple Bay State Park	1	44	0	0	44	55	Yes
		44	0	0	44		
911-Wild River State Park	1	166	0	107	59	150	Yes
	2	84	0	0	84		
	3	7	0	0	7		
		257	0	107	150		
912-Lake Bemidji State Park	1	23	0	0	23	35	Yes
		23	0	0	23		
913-Hayes Lake State Park	1	26	0	0	26	60	Yes
	2	2	0	0	2		
		28	0	0	28		
914-Elm Creek Park Reserve	1	94	0	11	83	145	Yes
	2	63	0	0	63		
		157	0	11	146		
915-Lake Rebecca Park Reserve	1	50	0	0	50	75	Yes
	2	8	0	0	8		
		58	0	0	58		
916-Forestville/Mystery Cave State Park	1	84	0	0	84	110	Yes
	2	1	0	0	1		
		85	0	0	85		
917-Frontenac State Park	1	41	0	4	37	50	Yes
	2	13	0	0	13		
		54	0	4	50		
918-Great River Bluffs State Park	1	7	0	0	7	110	Yes
		7	0	0	7		

Table 22. (Continued).

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	Bonus Permits
		Total	Rejected				
919-Zumbro Falls Woods SNA	1	14	0	11	3	10	Yes
	2	8	0	0	8		
		22	0	11	11		
920-Whitewater State Game Refuge	1	36	0	0	36	75	No
	2	12	0	0	12		
		18	0	0	48		
921-Rydell National Wildlife Refuge	1	4	0	0	4	20	Yes
		4	0	0	4		
922-Maplewood State Park	1	158	0	141	17	100	Yes
	2	84	0	0	84		
	3	1	0	0	1		
	4	1	0	0	1		
		244	0	141	103		
923-Glacial Lakes State Park	1	36	0	5	31	30	Yes
	2	1	0	0	1		
		37	0	5	32		
TOTAL		1,981	0	361	1,620	1,905	

Table 23. Special Permit Areas for Muzzleloader Hunters, 2004.

Permit Area Numbers	Preference Level	Applications		Unsuccessful	Winners	Permits Available	Bonus Permits
		Total	Rejected				
931-Jay Cooke State Park	1	157	0	76	81	90	Yes (4)
	2	8	0	0	8		
	3	1	0	0	1		
		166	0	76	90		
932-Crow Wing State Park	1	74	0	74	0	40	Yes (4)
	2	65	0	26	39		
	4	1	0	0			
		140	0	100	39		
933-Afton State Park	1	41	0	14	27	40	Yes (4)
	2	13	0	0	13		
		54	0	14	40		
934-Lake Shetek State Park	1	21	0	7	14	25	No
	2	11	0	0	11		
	3	1	0	0	1		
		33	0	7	26		
935-Sibley State Park	1	43	0	2	41	50	No
	2	10	0	0	10		
		53	0	2	51		
936-Rice Lake State Park	1	30	0	30	0	15	Yes (1)
	2	13	0	0	13		
	3	2	0	0	2		
		45	0	30	15		
937-Lake Louise State Park	1	51	0	34	17	25	Yes (4)
	2	6	0	0	6		
	3	2	0	0	2		
		59	0	34	25		
938-Interstate State Park	1	23	0	9	14	15	Yes (4)
	2	1	0	0	1		
		24	0	9	15		
TOTAL		574	0	272	301	300	

GRAND TOTAL		30,436	1,361	3,343	25,732	32,665	
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2004 Minnesota Bear Harvest Report

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Forest Wildlife Populations & Research Group

INTRODUCTION

Since 1982, out of concern that the Minnesota bear population was being overharvested, bear harvests have been regulated by a quota on licenses within the primary bear range. Eleven bear management units (BMUs) have been designated (Figure 1), with separate quotas for each. Outside the primary bear range, where bear depredation to crops is a primary concern, license sales are unlimited (no-quota area), and hunters can purchase licenses before or during the bear season. In recent years, hunters in this area could harvest 2 bears. In all areas the bear season runs from September 1 through mid-October.

Corresponding with the change in bear management in 1982, a long-term telemetry study was initiated near the center of the bear range to monitor reproductive rates and to design methods for monitoring population size and structure. All population monitoring and harvest analyses are conducted by the Wildlife Research unit in Grand Rapids. This report summarizes status and trends in harvests and population size and structure.

METHODS

Successful hunters must register their bears at designated registration stations. Harvest data were a simple tally of these registrations, partially corrected for non-compliance. Hunters also were required to submit a tooth from harvested bears (although compliance was only about 70%) from which an age estimate was obtained. In some years they were also required to submit rib samples. Bear population estimates were obtained from a statewide mark-recapture using tetracycline as a biomarker and tooth and rib samples submitted by hunters as the recapture sample. Bear food abundance, which impacts hunting success, was measured qualitatively by DNR and other field personnel. Reproductive rates were obtained by visits to dens of radiocollared female bears after the birth of cubs.

RESULTS

The number of hunting permits that were made available steadily increased through the 1980s and 1990s (Table 1) in response to increasing bear numbers. Permit availability was capped at just over 20,000 from 1999–2003, whereas during this period permit applications declined. Concomitantly, since 2001, a diminishing proportion of permittees bought licenses, resulting in 7 of 11 BMUs being undersubscribed by 2003. Permits were reduced in 2004 in accordance with the diminishing level of interest and hunter complaints of overcrowding, but 7 BMUs remained undersubscribed. Harvests, while variable due to natural food abundance, showed no trend over the past 10 years, averaging about 3400 bears, with hunting success averaging 26%. Harvest sex ratios, uncorrected for misreporting (Table 1, footnote d) averaged 57% male, but varied by BMU (Table 2). In 2004, harvests (Table 2) and hunting success (Table 3) were about average for most BMUs. Generally about 70% of the harvest occurs during the first week of the season (Table 4).

The number of bears killed by hunters each year is largely explained by 2 factors: fall food abundance and hunter numbers (Figure 2). Bear numbers, which increased dramatically until about 1997 but have since stabilized at 20–30,000 (Figure 3), are no longer an important factor in year-to-year variations in harvest. Nevertheless, trends in harvest age structure, specifically an increasing proportion of yearlings in the harvest (Figure 4), suggest ongoing changes in the living age structure. Likewise, reproductive rates appear to have become more variable and synchronous over the past decade (Figure 5).

DISCUSSION

The apparent decline in interest in bear hunting is somewhat enigmatic. Interest seems to have waned as permit availability peaked, and corresponded with complaints by hunters of overcrowding and thus less hunting enjoyment. Another contributing factor may have been the recent availability of electronic licenses, enabling hunters to delay purchase until they assessed bear visitation to their baits and hence likely hunting success.

Despite concern over this trend, harvests have remained high and apparently sufficient to stabilize the bear population at an acceptable level. Bear population estimates, however, have a wide degree of uncertainty, so caution must be exercised in interpreting trends. Moreover, trends in age structure and reproductive rates suggest that despite relative stability in overall population size, the structure continues to change, which may inevitably lead to unpredictable changes in numbers. Continued monitoring of this population and the factors impacting it are hence warranted.

Table 1. Bear permits, licenses, hunters, harvests, and success rates, 1985–2004.

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Permit applications	22954	20694	19687	25879	24096	24861	25890	26428	27365	30127	29922	30405	27353	30245	29384	29275	26824	21886	16431	16466
Permits available	4290	4730	4810	5310	5520	6370	7140	7920	8630	9400	11950	12030	11370	18210	20840	20710	20710	20610	20110	16450
Licenses purchased (total) ^a	3948	4188	6054	5643	5901	7094	7757	8485	9224	9826	12448	12414	11440	16737	18355	19304	16510	14639	14409	13669
Quota area ^a	3948	4188	4213	4297	4628	5568	6257	6845	7528	8125	10304	10592	9655	14941	16563	17021	13632	12350	9833	10063
Quota area surplus ^a																	235	209	2554	1356
No-quota area ^a																				2238
% Licenses bought ^b																				
Of permits available ^b	92.0	88.5	87.6	80.9	83.8	87.4	87.6	86.4	87.2	86.4	86.2	88.0	84.9	82.0	79.5	82.2	67.0	60.9	61.6	69.4
Of permits issued ^b																				68.3
Estimated no. hunters ^c	3700	3900	5600	5100	5500	6600	7200	7900	8600	9100	11600	11500	10300	14500	15900	16800	15500	13700	13500	12800
Harvest	1340	1438	1577	1509	1930	2381	2143	3175	3003	2329	4956	1874	3212	4110	3620	3898	4936	1915	3598	3391
Harvest sex ratio (%M) ^d	53	59	60	58	57	52	59	50	56	62	47	62	55	55	53	58	56	61	58	57
Success rate (%)																				
Total harvest/hunters	36	37	28	30	35	36	30	40	35	26	43	16	31	28	23	23	29 ^e	14 ^e	26 ^e	26 ^e
Quota harvest/licenses																				26

^a Quota area established in 1982. No-quota area established in 1987. Surplus licenses from undersubscribed quota areas sold beginning in 2000; originally open only to unsuccessful permit applicants, but beginning in 2003, open to all. Total licenses = quota + quota surplus + no-quota + military (no permit needed).

^b Quota licenses bought (including surplus)/permits available, or licenses bought (prior to surplus)/permits issued (permits issued more relevant for years when some areas were undersubscribed; see Table 3).

^c Number of licensed hunters x percent of license-holders hunting. Percent hunting is based on data from bear hunter surveys conducted during 1981–91, 1998 (86.8%), and 2001(93.9%).

^d Sex ratio as reported by hunters; hunters classify about 10% of female bears as males, so the actual harvest has a lower %M than shown here. In good food years, the harvest is more male-biased.

^e Success rates in 2001–2004 were calculated as number of successful hunters/total hunters, rather than bears killed/total hunters, because hunters could take 2 bears (2001: statewide, 4936 bears were taken by 4456 successful hunters; in the quota area, 3859 hunters were successful; 2002: statewide, 1915 bears taken by 1900 successful hunters; all 15 second bears taken in the no-quota area; 2003: statewide, 3598 bears taken by 3556 successful hunters; all 42 second bears taken in the no-quota area; 2004: statewide 3391 bears taken by 3363 successful hunters; all 28 second bears taken in the no-quota area).

Table 2. Minnesota bear harvest tally^a for 2004 by Bear Management Unit (BMU) and sex compared to harvests during 1998-2003 and record high harvests.

BMU	2004					Record high harvest (yr)					
	M	(%M)	F	U	Total	2003	2002	2001	2000	1999	1998
Quota											
12	98	(59)	67	0	165	174	104	263	186	142	170
13	123	(63)	73	1	197	185	116	241	211	134	216
22	6	(60)	4	0	10	3	7	6	4	10	8
24	105	(51)	101	6*	212	163	101	273	168	257	274
25	301	(56)	237	8*	546	510	328	584	387	443	419
26	182	(57)	137	1	320	303	171	397	284	371	373
31	289	(60)	195	0	484	436	301	697	413	483	544
41	55	(66)	28	0	83	100	51	201	171	92	120
44	150	(53)	132	1	283	444	183	553	556	435	563
45	62	(53)	55	1	118	143	36	178	150	153	170
51	286	(53)	258	0	544	667	300	895	795	739	812
Total	1657	(56)	1287	19	2962	3128	1698	4288	3325	3259	3669
No Quota ^b											
11	121	(68)	56	0	177	200	112	321	244	65	163
52	134	(53)	117	1	252	270	105	327	329	296	278
Total	255	(60)	173	1	429	470	217	648	573	361	441
State	1912	(57)	1460	6	3391	3598	1915	4936	3898	3620	4110

^a Harvest data were obtained from registration slips (submitted by registration stations) and tooth envelopes (submitted by hunters). The following table shows the number of tooth envelopes that had no corresponding registration slip. These bears were apparently registered (tooth envelopes were available only at registration stations), but the slips were lost.

Year	Quota area	No-quota area
1998	49	6
1999	45	4
2000	39	16
2001	56	7
2002	46	7
2003	84	13
2004*	96	39

^b Some hunters with no-quota licenses hunted in the quota area. Some were drawn for the quota area but received NQ licenses. Others hunted in the wrong area purposefully or out of ignorance. All these are tallied in the area where they actually killed a bear ($n=27$ in 2001; $n=5$ in 2002; $n=14$ in 2003; $n=6$ in 2004). Otherwise, the tally represents the number of bears killed by hunters who had licenses for the indicated area, even if they killed a bear in another BMU. Typically 2–3% of the harvest is taken outside the BMU in which the hunter was supposed to be hunting.

* Tooth envelopes with no corresponding registration slip were spread among at least 51 different registration stations in 2004. One station in Cook was known to have lost 41 slips; envelopes were received from 28 of these. The remaining 13, without matching tooth envelopes, were allocated to BMU (24 or 25) based on the proportional split among other bears registered at this station. An estimated 43 more bears correspond to slips lost at other stations, although these are not included in this tally.

Table 3. Bear hunting success (%) by BMU, measured as the known harvest (Table 1, excluding second bear) divided by the number of licenses sold, 1998–2004.

BMU	Median success 1998-2003	2004		2003		2002		2001		2000	1999	1998
		% Success	% Taking 2 bears ^a	% Success	% Taking 2 bears ^a	% Success	% Taking 2 bears ^a	% Success	% Taking 2 bears ^a			
Quota	23	26	—	25	—	14	—	28	(11)	20	20	25
12	31	33	—	35	—	22	—	44	(17)	32	24	30
13	28	33	—	31	—	19	—	31	(9)	26	17	31
22	7	11	—	4	—	8	—	7	(0)	3	8	6
24	24	27	—	25	—	15	—	28	(8)	15	24	26
25	26	38	—	34	—	23	—	34	(11)	19	24	27
26	31	31	—	29	—	17	—	32	(10)	23	32	38
31	24	33	—	25	—	17	—	34	(15)	19	23	28
41	27	23	—	29	—	14	—	40	(16)	34	14	25
44	22	20	—	26	—	9	—	23	(10)	22	18	25
45	11	12	—	13	—	4	—	13	(7)	9	10	15
51	19	19	—	21	—	9	—	24	(10)	19	18	19
No Quota	22	18	(7)	21	(10)	10	(7)	23	(9)	25	20	25
Statewide	23	25		25		13	—	27	(11) ^b	20	20	25

^a Percent of successful hunters that shot 2 bears; 2nd bear is not included in the calculation of hunting success. The taking of 2 bears was legal statewide in 2001, but only in the no-quota area in 2002, 2003 & 2004.

^b 480 of 4456 (11%) successful hunters killed 2 bears. Alternately, 2nd bears comprised 10% (480 of 4936) of the total harvest.

Table 4. Cumulative bear harvest (% of total harvest) by date, 1990–2004.

Year	Day of week for opener	Aug 22/23– Aug 31 (9–10 days)	Sep 1 – Sep 7 (7 days)	Sep 8 – Sep 14 (7 days)	Sep 15 – Sep 30 (16 days)
1990	Sat		69	82	96
1991	Sun		64	76	93
1992	Tue		72	86	96
1993	Wed		67	80	94
1994	Thu		67	78	92
1995	Fri		72	87	97
1996	Sun		56	70	87 ^a
1997	Mon		76	88	97
1998	Tue		76	87	96
1999	Wed		69	81	95
2000	Wed	57	72	82	96
2001	Wed	67	82	88	98
2002	Sun		57	69	90 ^a
2003	Mon		72	84	96
2004	Wed		68	82	95

^a The large proportion of the harvest taken late in the season in 1996 and 2002 (e.g., >10% in October) was related to the high abundance of food in those years.

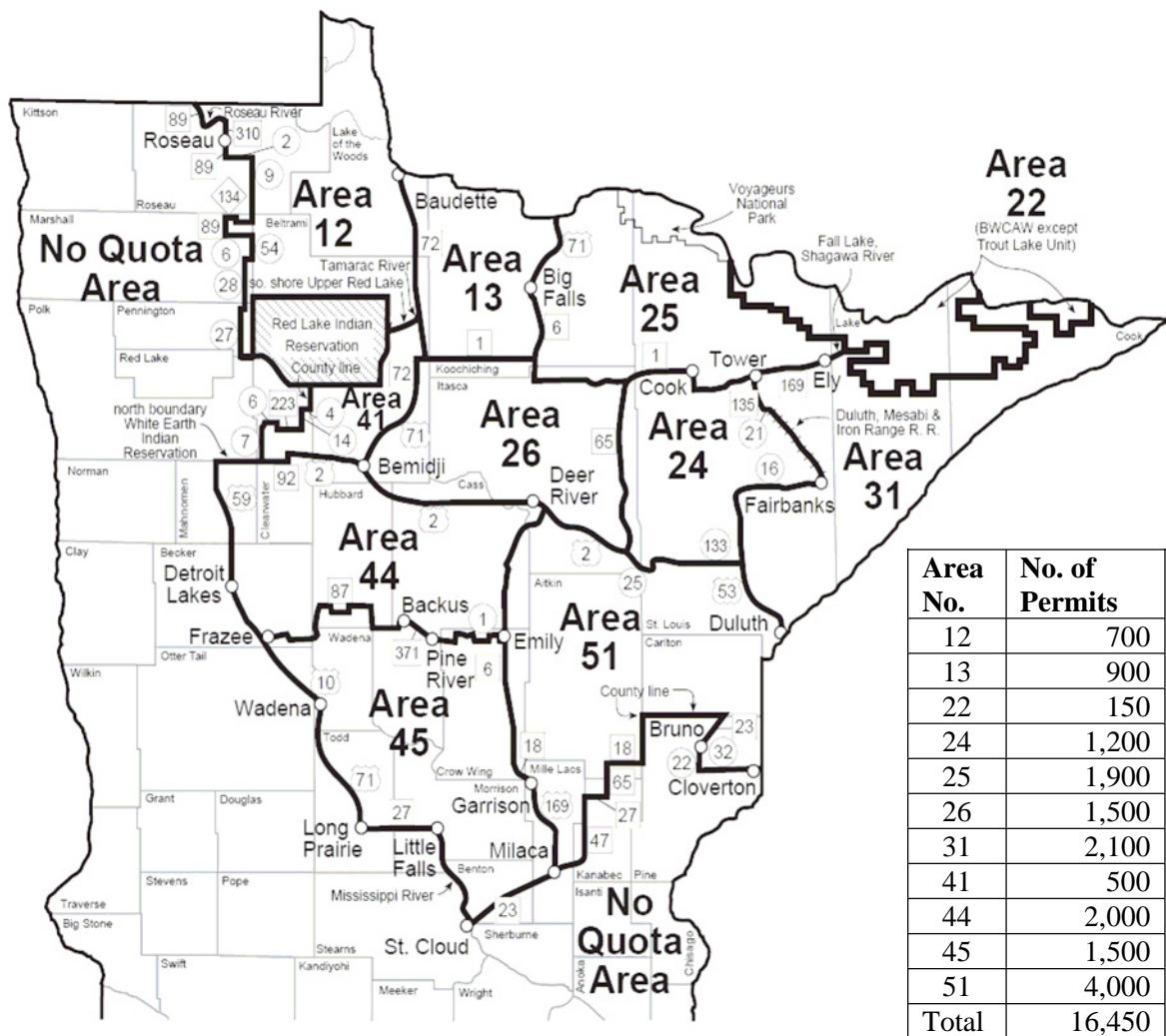


Figure 1. Bear management units (areas) within the primary bear range in Minnesota.

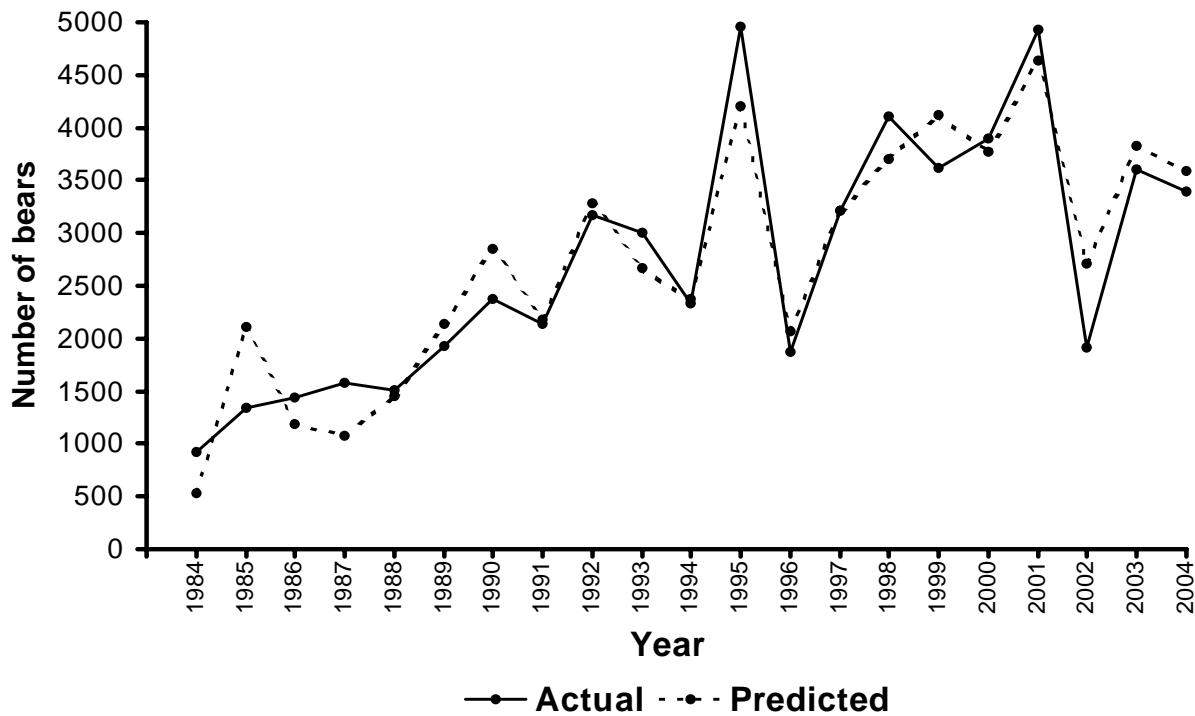


Figure 2. Number of bears killed vs. number predicted to have been killed based on fall food abundance and hunter numbers. Prediction for 2004 from 1984–2003 regression: $R^2 = 0.87$.

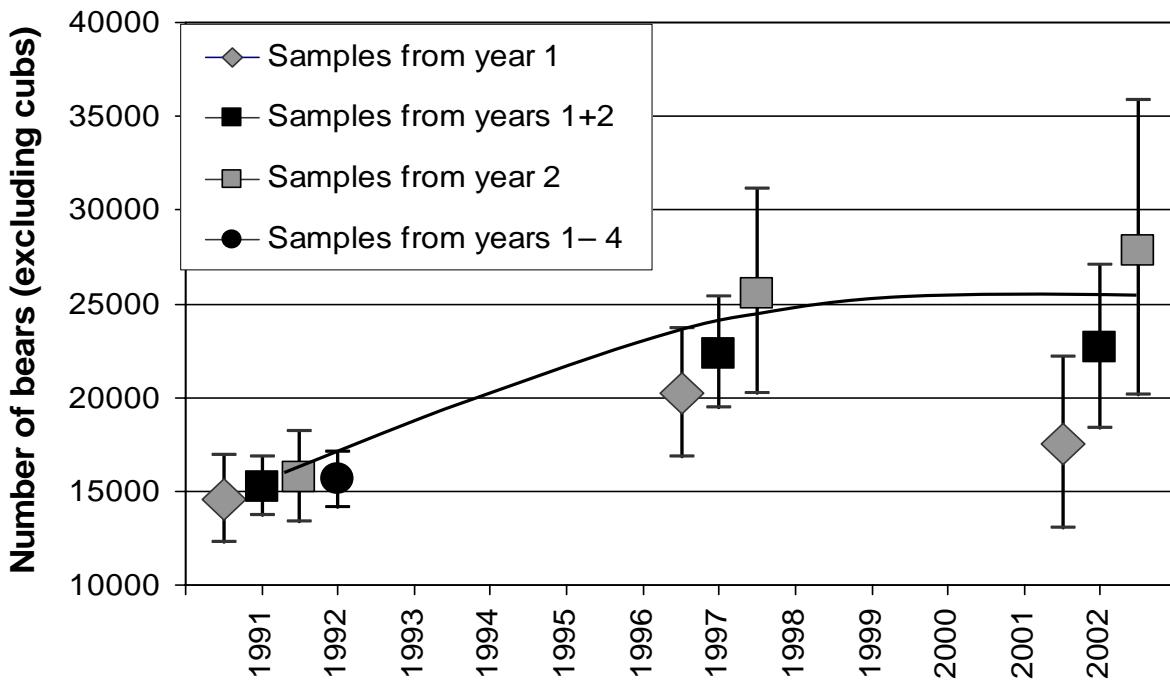


Figure 3. Population estimates ($\pm 95\%$ CI) from tetracycline-marking. Three clusters of points correspond with different years of marking, 1991, 1997 & 2002. Curve approximate population trajectory.

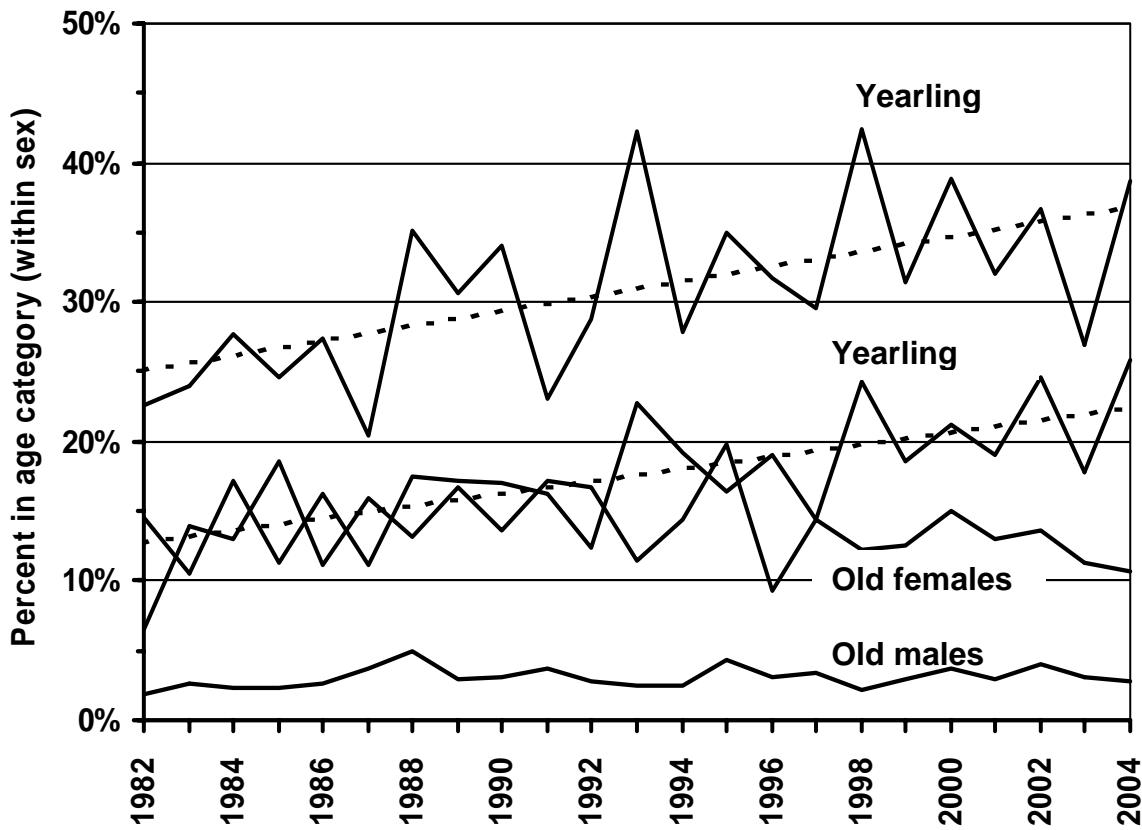


Figure 4. Trends in harvest age structure (linear regressions for yearlings shown with dashed lines).

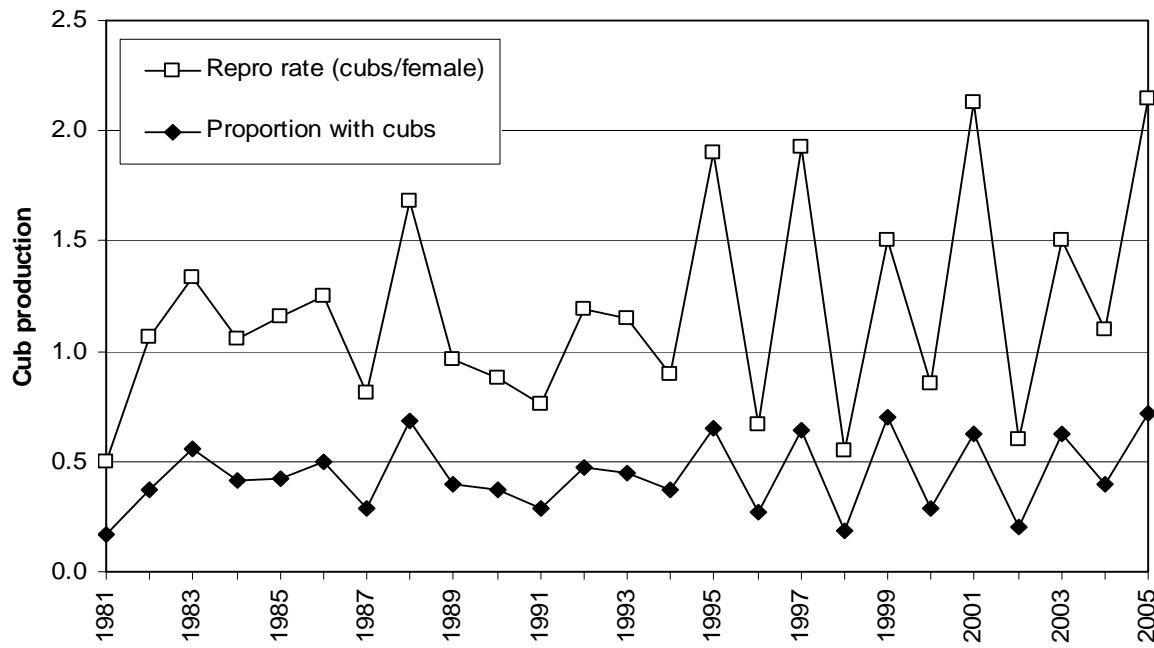


Figure 5. Year-specific cub production of bears near the center of the bear range measured as the proportion of females with cubs during March den visits and cubs (M+F) per 4+ year-old female. Sample sizes vary from 5–25 females monitored per year (mean = 16).

2004 Minnesota Moose Harvest

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INTRODUCTION

Each year, a limited number of permits are issued that allow Minnesota residents to hunt moose. The following report is intended to document the number of hunters applying for permits, the number of permits issued, a hunting party's chance of receiving a permit, hunter success rate, and a breakdown of the harvest by hunting zone (Figure 1). Information on permit numbers and moose harvested by members of the 1854 Authority or Fond du Lac band of Lake Superior Chippewa within the 1854 Ceded Territory is also provided.

METHODS

All successful State hunters are required to register their moose at one of 9 registration stations and provide information on the location where they killed their moose, date of kill, and sex of moose harvested.

RESULTS

In 2004, 212 moose were harvested in northeastern Minnesota. No season was held in northwestern Minnesota. The State of Minnesota licensed 245 hunting parties and hunters killed 151 moose including 127 bulls and 24 cows (Table 1). Data on the number of permits offered, chance of being selected for a permit, hunter success, and sex ratio of the harvest, are also listed (Table 1). The 1854 Authority issued 47 hunter permits and 4 subsistence permits. A total of 22 bulls and 6 cows were killed (including 3 animals taken with subsistence permits). The Fond du Lac band issued a total of 76 permits and hunters killed 31 moose (28 bulls and 3 cows). Two additional cow moose were taken for subsistence purposes.

DISCUSSION

The success rate of State hunters in 2004 was 62% and represents an all time low for moose hunts in northeastern Minnesota (Tables 1 and 2). In 2003, the success rate for State hunters was 64%. The success rates for 1854 Authority and Fond du Lacs hunters were 53% and 41%, respectively.

Table 1. Breakdown by sex, permit numbers, party success, and percent bulls in 2004 moose harvest by State hunters in northeastern Minnesota.

Zone	Bulls	Cows	Total	Permits	Chances			
					Party*	Applications	for Permit	% Success
								% Bulls
20	4	5	9	25	202	12%	36%	44%
21	4	0	4	5	57	9%	80%	100%
22	3	1	4	5	50	10%	80%	75%
23	2	0	2	4	29	14%	50%	100%
24	7	1	8	9	365	2%	89%	88%
25	5	0	5	8	249	3%	63%	100%
26	1	0	1	7	46	15%	14%	100%
27	1	0	1	5	21	24%	20%	0%
28	5	0	5	5	25	20%	100%	100%
29	6	1	7	7	135	5%	100%	86%
30	4	2	6	7	132	5%	86%	67%
31	12	1	13	14	360	4%	93%	92%
32	2	1	3	5	51	10%	60%	67%
33	3	0	3	5	67	7%	60%	100%
34	3	1	4	7	76	9%	57%	75%
35	3	0	3	5	42	12%	60%	100%
36	7	1	8	14	49	29%	57%	88%
60	4	0	4	4	19	21%	100%	100%
61	7	2	9	11	51	22%	82%	78%
62	8	3	11	16	129	12%	69%	73%
63	4	0	4	7	49	14%	57%	100%
64	1	0	1	19	95	20%	5%	100%
70	2	0	2	3	98	3%	67%	100%
72	3	1	4	5	73	7%	80%	75%
73	3	0	3	8	113	7%	38%	100%
74	5	1	6	9	102	9%	67%	83%
76	5	2	7	9	169	5%	78%	71%
77	5	1	6	8	85	9%	75%	83%
79	6	0	6	6	45	13%	100%	100%
80	2	0	2	3	78	4%	67%	100%
Total	127	24	151	245	3062	8%	62%	84%

* Number of 2, 3, and 4 person parties.

Table 2. Total applicants, moose permits, harvest, and success rates in northeastern and northwestern Minnesota since 1993.

Year	Northwest				Northeast			
	Party*	Moose Applicants	Permits	Harvested	Party*	Moose Applicants	Permits	Harvested
								Success
1993	6558	446	422	95%	2934	315	264	84%
1994	8208	262	244	93%	3022	189	155	82%
1995	7622	191	171	90%	3181	188	156	83%
1996	2476	39	38	97%	3830	207	156	75%
1997	No Season			3958	198	152	77%	
1998	No Season			4157	182	125	69%	
1999	No Season			3919	189	136	72%	
2000	No Season			No Season				
2001	No Season			3164	182	125	69%	
2002	No Season			2580	208	141	68%	
2003	No Season			2328	224	144	64%	
2004	No Season			3062	245	151	62%	

*Number of 2, 3, or 4 person parties

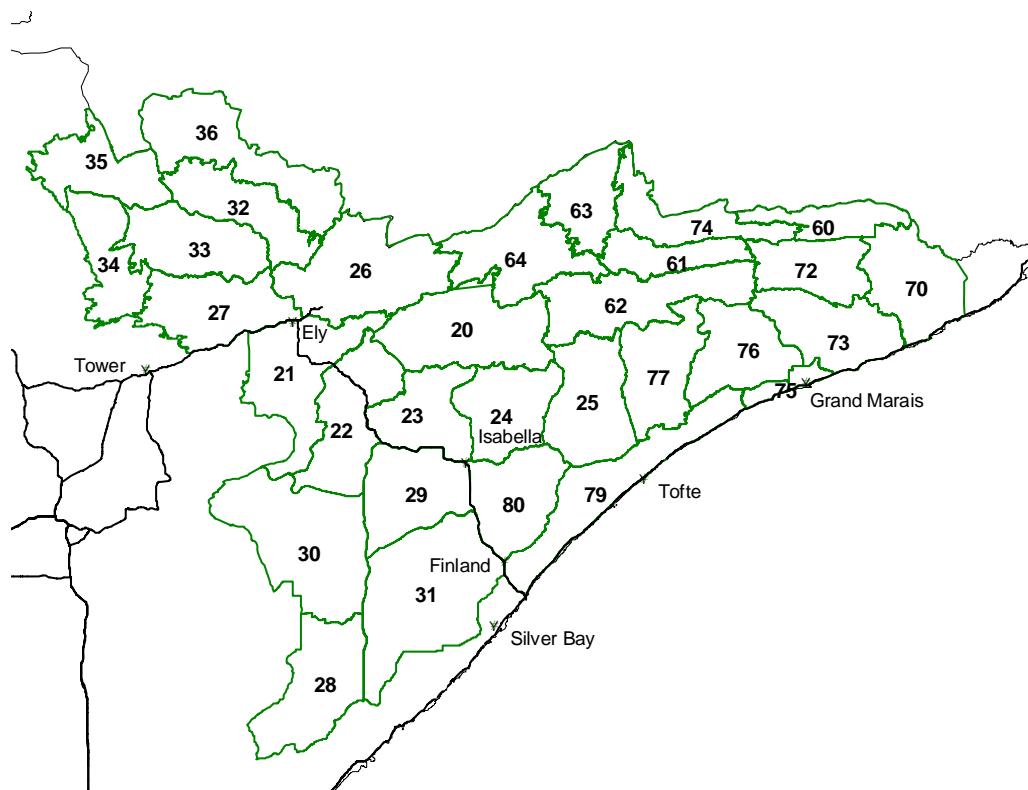


Figure 1. Moose hunting zones in northeastern Minnesota, 2004.