

HUNTING HARVEST STATISTICS

Division of Fish and Wildlife
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2007 SMALL GAME HUNTER MAIL SURVEY

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INTRODUCTION

The Minnesota Department of Natural Resources, Division of Fish and Wildlife, Wildlife Research unit annually conducts a survey of small game hunters. Annual harvest estimates from survey data provide guidance for future hunting regulations and season structure.

METHODS

The Wildlife Research 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 consisted of 6,000 (approximately 2%) Small Game License holders, drawn proportionately from each of the Small Game license types available.

Hunters that returned the survey questionnaire within three weeks, were 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

Estimated number of hunters increased slightly for spruce grouse, gray partridge, gray squirrels, and raccoons (Table 3). Number of duck hunters stabilized but Canada goose hunters continued to decline. Mean harvest and hunter success rates were up slightly (Table 5) for rails and gallinules, pheasants, and jack rabbits. Total estimated harvests increased for mourning doves, pheasants, sharp-

tailed grouse, cottontails, jack rabbits, and coyotes (Table 6). Estimated harvests were down for ducks, geese, coots, crows, woodcock, ruffed grouse, spruce grouse, gray squirrel, fox squirrel, snowshoe hare, raccoon, red fox, gray fox, and badger. Note that all estimates are based on a survey of approximately 2% of all small game license holders. Data in this report may change as a result of future verification and more comprehensive analysis.

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

Table 1. Small game hunter response to mail surveys, 1979 - 80 through 2007 - 08.

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
2005 - 06	6,280	142	3,946	64.3
2006 - 07	6,000	151	3,810	65.1
2007 - 08	6,000	113	3,736	65.5

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

Table 2. Use of small game hunter licenses, 1997-98 through 2007-2008.

		Returns from mail survey	Projections from license sales
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%)	223,275
	Did not hunt	<u>847 (22.4%)</u>	<u>64,450</u>
		3,781 (100.0%)	287,725
2005-06	Hunted	3,035 (77.1%)	216,000
	Did not hunt	<u>900 (22.9%)</u>	<u>64,156</u>
		3,935 (100.0%)	280,156
2006-07	Hunted	2,994 (79.0%)	233,759
	Did not hunt	<u>795 (21.0%)</u>	<u>62,139</u>
		3,789 (100.0%)	295,898
2007-08	Hunted	2,894 (77.9%)	232,505
	Did not hunt	<u>822 (22.1%)</u>	<u>65,961</u>
		3,716 (100.0%)	298,467

Includes resident and non-resident information. Excludes duplicates.

2007 Small Game Hunter Report

1. Did you hunt small game, listed below, in Minnesota this year (March 2007 - Feb 2008)? No Yes (Please check box)
2. Indicate the **total number of days** spent hunting small game of all species listed below, in Minnesota. _____
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		
Coots (mud hens)	50		
Canada geese	40		
Other geese	41		
Snipe (jacksnipe)	51		
Rails and gallinules	52		
Crows	53		
Woodcock	60		
Mourning Dove	65		
Pheasants	70		
Ruffed grouse (Forest partridge)	71		
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	94		
Red fox	95		

Dear Small Game Hunter:

You have been selected at random from among Minnesota's small game hunting license buyers to assist us in evaluating the 2007-2008 small game hunting season (**March 2007-February 2008**). We need information to estimate the season's harvest and to help set future small game seasons. Answer only for your Minnesota 2007 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. A reminder will be sent to individuals not returning the questionnaire within three weeks. No envelope or stamp is necessary; just tear along the perforation and drop into a mailbox.

THANK YOU FOR YOUR COOPERATION

Dave Schad, Director
Division of Fish and Wildlife
Department of Natural Resources



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



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STATE OF MINNESOTA
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Figure 1. Sample of Small Game Hunter survey card

Small Game

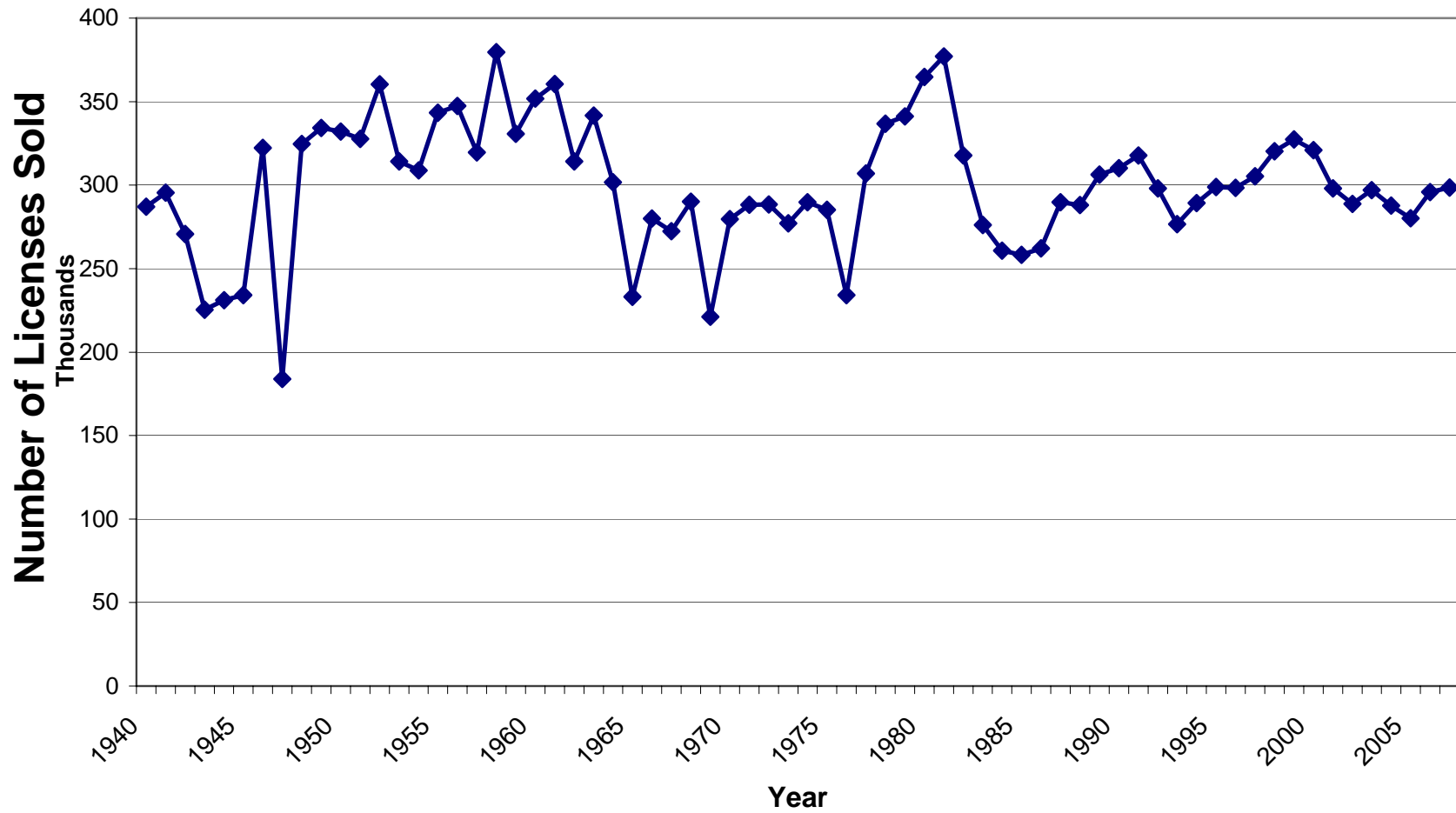


Figure 2. Number of Minnesota small game licenses sold, 1940 – 2007

Table 3. Estimated number of hunters (thousands) for various species, 1994-95 through 2007-08.

	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Ducks	118	119	114	122	117	122	109	109	112	101	105	92	87	87
Canada goose	70	73	75	79	77	80	77	76	79	75	75	69	66	63
Other geese	7	10	6	5	6	5	7	7	6	7	5	5	5	4
American coot	7	9	6	7	5	6	4	4	4	4	5	4	5	3
Common snipe	2	2	2	2	2	2	2	1	2	1	2	1	2	2
Rails / gallinules	1	1	<1	<1	<1	<1	<1	<1	1	<1	<1	0	1	<1
Crow *	12	15	13	11	11	14	14	11	13	12	12	12	11	9
American woodcock	21	21	18	17	19	19	16	11	12	13	12	11	14	11
Mourning dove ^γ											16	11	13	13
Ring-necked pheasant	92	96	88	80	88	93	100	85	91	105	104	111	119	118
Ruffed grouse	107	116	118	127	142	139	121	101	91	94	79	76	92	91
Spruce grouse	12	14	11	11	11	11	9	9	7	9	7	7	10	11
Sharp-tailed grouse	7	8	7	8	8	8	10	8	6	7	6	5	7	7
Gray partridge	14	12	11	8	10	10	8	7	7	8	5	6	6	7
Gray squirrel	35	35	33	27	30	31	27	26	25	29	23	25	25	26
Fox squirrel	24	23	20	16	18	20	17	15	15	20	15	15	16	15
Eastern cottontail	21	23	19	14	19	18	20	17	16	21	19	20	20	20
White-tailed jackrabbit	4	5	4	3	3	3	2	3	2	3	3	2	3	3
Snowshoe hare	6	5	4	4	7	7	5	6	6	6	4	3	6	4
Raccoon (Sept -Feb)	10	10	10	9	9	6	6	6	6	6	6	5	9	10
Raccoon [‡] (March-Aug)	3	5	4	3	4	3	5	4	4	5	3	3		
Red fox (Sept -Feb)	15	15	11	9	9	8	10	6	7	7	6	6	6	6
Red fox [‡] (March -Aug)	3	4	3	2	3	2	2	3	2	2	1	1		
Gray fox	2	3	n.a.	2	2	2	1	1	1	2	2	1	2	2
Coyote	11	15	13	10	11	11	16	11	12	15	16	19	17	16
Badger	1	<1	1	1	<1	<1	1	<1	1	<1	1	1	1	<1

*Crow season added in 1989.

[‡] Raccoon and red fox season continuous May 1994 thru March 15, 2006. ^γ Mourning dove season added 2004.

Table 4. Estimated take per hunter, for respondents reporting that they hunted a particular species, 1993-94 through 2007-08.

	Estimated take per hunter														
	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Ducks	7.6	8.1	9.7	9.6	9.9	9.5	8.4	8.9	9.1	9.2	9.0	6.9	7.3	8.4	8.1
Canada geese	2.5	2.4	2.5	3.2	2.9	2.8	3.5	3.9	4.0	3.3	3.9	3.8	4.1	4.9	3.9
Other geese	1.1	0.8	0.9	1.4	2.3	1.0	1.2	2.2	1.2	1.9	1.7	1.5	1.9	1.5	2.1
American coot	2.7	3.2	3.1	3.8	4.1	4.7	4.0	2.7	4.5	4.6	2.8	4.0	3.9	5.6	4.6
Common snipe	1.9	1.3	1.6	2.8	2.6	2.9	1.6	1.3	1.3	1.5	1.8	1.1	4.4	1.9	2.0
Rails/gallinules	1.5	1.3	2.3	1.0	0.7	0.5	0.2	3.7	0.6	2.6	0.5	0.3	0	2.4	5.3
Crow *	5.0	9.4	8.5	7.3	6.6	9.3	4.4	6.9	7.7	5.6	6.7	5.8	7.8	6.4	6.4
American woodcock	4.0	3.5	3.9	3.2	3.4	3.3	2.8	2.8	2.3	2.4	2.4	3.5	2.5	3.2	2.6
Mourning dove ^γ												6.2	7	6.7	7.7
Ring-necked pheasant	3.8	3.5	4.2	3.9	3.1	3.5	3.7	3.7	3.2	3.9	4.9	4.0	5.3	4.9	5.5
Ruffed grouse	2.8	3.5	3.9	4.5	5.2	6.7	4.9	5.1	3.3	2.8	3.8	2.5	2.9	4.5	3.2
Spruce grouse	1.2	1.9	1.8	1.4	2.3	2.4	1.8	2.5	1.1	1.6	2.1	1.3	1.4	2.7	1.7
Sharp-tailed grouse	1.4	1.2	1.3	1.2	1.7	2.6	1.6	1.6	1.2	1.3	1.7	1.7	1.3	1.8	2.0
Gray partridge	2.4	1.8	2.2	2.2	1.9	2.5	1.9	2.1	1.5	1.7	2.8	2.4	2.6	1.9	1.6
Gray squirrel	5.5	5.4	4.9	4.9	4.9	5.0	4.3	5.3	5.6	5.2	6.0	5.7	5.0	5.5	5.2
Fox squirrel	4.5	4.2	4.6	3.8	4.4	3.3	3.5	3.9	4.1	4.5	4.2	4.1	4.1	4.2	3.2
Eastern cottontail	3.6	3.6	4.3	3.4	4.5	4.6	3.2	3.9	3.6	3.3	4.3	4.6	4.5	3.9	4.0
White-tailed jackrabbit	2.4	1.5	1.5	2.6	1.6	2.5	1.9	2.8	2.6	1.6	2.4	2.3	2.7	1.6	3.3
Snowshoe hare	3.2	3.2	2.0	2.3	2.0	3.5	3.1	5.2	3.3	1.9	2.2	1.8	3.1	3.0	1.4
Raccoon (Sept -Feb)	8.9	15.9	14.7	21.3	13.8	16.6	10.9	7.6	9.4	10.0	8.5	9.0	6.0	7.2	4.9
Raccoon [‡] (March -Aug)		8.0	11.3	24.4	5.1	5.8	6.4	7.8	4.4	5.4	4.7	6.1	2.7		
Red fox (Sept -Feb)	3.6	2.8	3.1	3.0	1.4	1.3	1.2	1.9	1.2	1.5	1.8	1.1	1.7	1.3	1.1
Red fox [‡] (March -Aug)		1.4	1.5	1.3	0.8	1.2	0.6	0.9	1.5	1.7	0.6	0.6	0.9		
Gray fox	0.8	0.6	1.0	n.a.	1.3	0.9	0.9	0.7	0.4	0.4	0.4	1.1	0.9	1.8	0.3
Coyote	1.3	1.1	1.8	2.3	1.6	1.3	1.3	1.8	1.1	1.2	1.3	1.1	2.1	1.2	2.1
Badger	0.7	1.4	1.4	2.1	0.9	4.3	1.1	0.8	0.6	1.7	0.7	1.0	1.2	1.3	0.3

* Crow season added in 1989. ‡ Raccoon and red fox season continuous May 1994 thru March 15, 2006. ^γ Mourning dove season added 2004.

Table 5. Mean Harvest for successful hunters and hunter success rates (%), 1997 - 98 through 2007 - 08.

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Ducks	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)	8.9 (82.5)	9.9 (84.4)	9.5 (85.4)
Canada geese	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)	5.5 (73.7)	6.3 (78.4)	5.5 (71.4)
Other geese	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)	4.5 (43.1)	2.7 (55.2)	4.2 (50.0)
American coot	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)	5.1 (75.9)	7.2 (77.6)	6.3 (74.4)
Common snipe	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)	4.7 (94.1)	2.6 (75.0)	2.9 (70.8)
Rails / gallinules	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)	0.0 (0.0) *	4.3 (57.1)	6.4 (83.3)
Crow	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)	9.1 (85.6)	7.2 (89.1)	7.3 (87.7)
American woodcock	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)	3.6 (70.3)	3.9 (82.7)	3.7 (68.9)
Mourning dove ^y								7.9 (78.9)	8.7 (80.1)	8.2 (81.2)	9.8 (78.7)
Ring-necked pheasant	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)	7.0 (75.9)	6.6 (75.3)	7.1 (78.1)
Ruffed grouse	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)	4.4 (67.5)	5.9 (77.4)	4.7 (69.4)
Spruce grouse	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)	2.4 (60.6)	3.8 (70.6)	3.1 (53.8)
Sharp-tailed grouse	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)	2.4 (55.1)	3.3 (56.0)	4.4 (45.9)
Gray partridge	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)	5.0 (52.3)	2.8 (68.8)	3.0 (55.4)
Gray squirrel	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)	5.8 (86.1)	6.4 (87.1)	5.9 (87.6)
Fox squirrel	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)	5.0 (82.5)	5.0 (84.5)	3.9 (82.6)
Eastern cottontail	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)	5.4 (83.4)	4.6 (84.8)	4.8 (84.0)
White-tailed jackrabbit	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)	3.2 (82.8)	2.5 (63.6)	4.5 (72.2)
Snowshoe hare	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)	4.6 (68.1)	3.8 (80.3)	2.2 (62.3)
Raccoon (Sept -Feb)	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)	6.5 (92.6)	7.7 (93.8)	5.4 (89.9)
Raccoon [‡] (March -Aug)	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)	3.1 (86.8)		
Red fox (Sept -Feb)	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)	3.7 (46.4)	2.1 (60.0)	2.3 (45.8)
Red fox [‡] (March -Aug)	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)	1.6 (55.6)		
Gray fox	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)	1.9 (50.0)	2.7 (65.4)	1.0 (29.2)
Coyote	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)	4.11 (50.4)	2.4 (50.5)	4.4 (49.0)
Badger	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)	1.2 (100.0)	1.6 (81.8)	1.0 (33.3)

[‡] Raccoon and red fox season continuous May 1994 thru March 15, 2006. ^y Mourning dove season added 2004. * No hunters surveyed reported Rails/Gallinules in bag.

Table 6. Statewide small game hunting license sales and estimated hunter harvest, 1995-96 through 2007-08.

	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Small game license sales ^a	298,425	298,337	305,186	320,308	327,431	320,862	298,055	288,729	296,939	287,725	280,156	295,898	298,467
Federal duck stamp sales	132,546	132,738	138,331	134,098	134,138	135,884	140,980 ^c	144,851 ^c					
State duck stamp sales	122,092	122,634	126,009	126,488	128,245	121,709	118,590	119,677	118,757	114,003	102,143	101,792	100,134
Pheasant stamp sales	105,093	95,866	85,093	99,664	106,945	114,440	97,665	102,097	121,456	114,653	117,301	129,546	129,315
Estimated harvest ^b (thousands)													
Ducks ^c	1,162	1,098	1,206	1,119	1,021	969	990	1,024	914	727	677	731	708
Canada geese ^c	180	241	230	218	285	301	308	257	290	284	282	324	244
Other geese ^c	9	8	11	6	6	15	8	11	13	8	9	7	8
American coot ^c	28	23	29	25	25	10	17	20	11	20	16	25	16
Common snipe	3	5	4	5	3	3	2	3	3	2	5	4	4
Rails / gallinules	1	<1	<1	<1	<1	1	<1	2	<1	<1	0	1	3
Crow	130	96	74	106	60	96	88	72	82	72	93	69	54
American woodcock	82	58	58	63	54	45	27	28	30	41	28	43	28
Mourning dove ^f										97	78	86	101
Ring-necked pheasant	398	341	248	309	339	375	267	358	511	420	586	588	655
Ruffed grouse	457	533	654	946	685	619	332	249	351	194	224	417	294
Spruce grouse	25	16	25	27	19	23	9	12	18	9	10	27	18
Sharp-tailed grouse	10	8	13	22	14	16	10	9	12	10	6	12	14
Gray partridge	26	24	16	24	19	17	10	11	22	13	16	11	11
Gray squirrel	169	158	131	149	132	140	146	134	175	133	122	141	133
Fox squirrel	105	75	68	57	71	65	63	67	85	62	62	66	48
Eastern cottontail	100	65	65	89	59	78	63	52	93	87	90	78	79
White-tailed jack rabbit	7	10	4	7	6	7	8	4	7	7	5	4	9
Snowshoe hare	11	10	8	25	21	27	22	11	12	8	10	17	6
Raccoon (Sept -Feb)	155	207	124	143	65	49	59	60	50	57	29	63	47
Raccoon ^d (Mar -Aug)	55	99	17	2	16	36	18	19	22	20	7		
Red fox (Sept -Feb)	48	33	13	13	10	19	7	11	13	6	10	8	6
Red fox ^d (Mar -Aug)	6	4	2	3	1	2	4	4	1	1	1		
Gray fox	3	n.a.	3	1	2	1	1	1	1	2	1	4	1
Coyote	26	30	16	14	13	29	12	14	20	18	39	21	34
Badger	1	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 5, 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 that appear 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:

Ducks 884,500 Canada geese 282,495 Other geese 0

^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, 1995-96 through 2007-08.

	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Nonresident licenses issued^a	4,993	5,488	6,361	7,155	7,572	7,001	5,843	5,852	6,291	6,385	5,897	7,356	7,858
Questionnaires:													
Number mailed	205	51	269	200	199	98	124	130	123	182	210	185	185
Number not delivered	14	4	18	17	16	6	9	9	17	13	10	11	11
Number (percent) returned	140 (73)	32 (68)	183 (73)	117 (64)	136 (74)	56 (61)	77 (67)	75 (66)	68 (64)	114 (67)	134 (67)	115 (62)	101 (58)
Estimated nonresidents and (percent) of all nonresidents hunting:													
Ducks	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)	2,040 (35)	2,344 (32)	2,256 (29)
Canada goose	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)	1,818 (31)	2,083 (28)	934 (12)
Ruffed grouse	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)	1,774 (30)	1,953 (26)	1,867 (24)
Ring-necked pheasant	820 (16)	515 (9)	731 (11)	612 (8)	947 (13)	625 (9)	935 (16)	1,404 (24)	2,128 (36)	2,679 (42)	2,572 (44)	3,776 (51)	2,645 (34)
Raccoon ^b	107 (2) *	172 (3)	35 (1)	0 (0) ^c	56 (1)	250 (4)	0 (0)	0 (0)	0 (0)	0 (0)	44 (0.7)	0 (0)	78 (1.0)
Estimated nonresident take:													
Ducks	26,713	6,346	15,967	26,663	26,391	18,253	42,225	17,556	17,855	19,269	12,149	12,173	22,718
Canada goose	4,173	1,544	4,905	4,587	6,960	5,001	13,400	5,852	5,736	6,214	3,946	3,580	3,501
Ruffed grouse	9,415	23,153	16,072	27,886	23,384	24,003	6,622	9,207	9,437	7,924	6,429	11,522	7,236
Ring-necked pheasant	3,638	1,887	2,505	1,712	4,844	4,001	3,740	7,647	9,344	11,174	13,656	16,079	17,661
Raccoon	3,638	8,061	70	0	724	3,375	0	0	0	0	887	0	3,268

^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, 2003, 2004 and 2006 no non-residents reported hunting/harvesting raccoons. * Non-resident raccoon hunting license was not required for 1994 and 1995.

	<u>Raccoon take per hunter</u>		
	<u>Resident</u>	<u>Nonresident</u>	<u>Number of nonresident raccoon licenses</u>
1999	11	13	48
2000	8	13	51
2001 ^c	10	0	48
2002	11	0	46
2003	10	0	44
2004	8	0	46
2005	6	20	44
2006	8	0	53
2007	5	42	45

The following information has been excerpted from: U.S. Fish and Wildlife Service. **Migratory bird hunting activity and harvest during the 2006 and 2007 hunting seasons: preliminary estimates.** U.S. Department of the Interior, Washington, D.C. U.S.A. The entire report is available on-line at <http://www.fws.gov/migratorybirds/reports/reports.html>

Table 1. Species composition of the Minnesota waterfowl harvest, 2006 and 2007. (from: Richkus, K.D, K.A. Wilkins, R.V. Raftovich, S.S. Williams, and H.L. Spriggs. 2008. Migratory Bird Hunting activity and harvest during the 2006 and 2007 hunting seasons: Preliminary estimates. U.S. Fish and Wildlife Service, Laurel, Maryland. USA July 2008. 62 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		
	2006	% of Harvest	2007	% of Harvest	Percent change in Harvest 05-06	2006	2007	Percent change Harvest 06-07
Mallard	215,727	33.65	178,969	31.74	- 21	2,286,643	2,514,119	+ 9
Domestic mallard	579	0.09	270	0.05	- 114	8,493	3,828	- 122
American black duck	1,158	0.18	540	0.10	- 114	35,840	38,692	+ 7
Black x mallard	290	0.05	270	0.05	- 7	4,479	5,246	+ 15
Gadwall	38,802	6.05	24,834	4.40	- 56	803,785	842,192	+ 5
American wigeon	20,849	3.25	12,417	2.20	- 68	163,839	148,774	- 10
Green-winged teal	47,199	7.36	49,399	8.76	+ 4	659,628	792,182	+ 17
Blue-winged /cinnamon teal	54,438	8.49	60,196	10.67	+ 10	513,876	626,720	+ 18
Northern shoveler	13,610	2.12	10,798	1.91	- 26	225,492	289,071	+ 22
Northern pintail	7,818	1.22	13,227	2.35	+ 41	104,286	162,416	- 36
Wood duck	81,658	12.74	80,981	14.36	- 1	635,053	621,615	- 2
Redhead	24,613	3.84	18,896	3.35	- 30	69,500	63,027	- 10
Canvasback	13,030	2.03	8,098	1.44	- 61	45,640	56,432	+ 19
Greater scaup	1,737	0.27	1,890	0.34	+ 8	21,454	21,964	+ 2
Lesser scaup	21,717	3.39	12,147	2.15	- 79	101,219	84,791	- 19
Ring-necked duck	80,499	12.56	68,024	12.06	- 18	353,705	241,239	- 47
Goldeneye	3,185	0.50	9,448	1.68	+ 66	19,906	26,478	+ 25
Bufflehead	6,950	1.08	9,718	1.72	+ 28	78,889	60,383	- 31
Ruddy duck	1,158	0.18	1,350	0.24	+ 14	20,250	10,891	- 86
Scoters	0	0	0	0	0	1,882	4,438	+ 58
Hooded merganser	5,791	0.90	1,890	0.34	- 206	37,241	38,686	+ 4
Other mergansers	0	0	540	0.10	+ 100	6,197	4,670	- 33
Total Duck Harvest (retrieved kill)	641,100 ± 11%		563,900 ± 11%		- 14	6,257,200 ± 5%	6,719,700 ± 6%	+ 7

^a Sum of all species does not equal total because of rounding error.

Table 2. Top 10 states in number of **adult duck hunters**, 2007, and number of hunter-days and retrieved duck kill, in each (from: Richkus, K.D, K.A. Wilkins, R.V. Raftovich, S.S. Williams, and H.L. Spriggs. 2008. Migratory Bird Hunting activity and harvest during the 2006 and 2007 hunting seasons: Preliminary estimates. U.S. Fish and Wildlife Service, Laurel, Maryland. USA July 2008. 62 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
Texas	80,200 ± 18%	418,500 ± 17%	1,074,300 ± 21%	13.4 ± 28%
Minnesota	70,200 ± 9%	414,700 ± 10%	563,900 ± 11%	8.0 ± 14%
Louisiana	62,300 ± 9%	539,500 ± 12%	1,532,800 ± 13%	24.6 ± 15%
Wisconsin	60,900 ± 10%	384,300 ± 11%	431,200 ± 10%	7.1 ± 14%
Arkansas	59,900 ± 9%	438,300 ± 10%	1,112,200 ± 11%	18.6 ± 14%
California	53,200 ± 11%	552,900 ± 15%	1,632,900 ± 16%	30.7 ± 19%
Illinois	37,900 ± 9%	324,500 ± 10%	467,900 ± 11%	12.0 ± 14%
Michigan	39,200 ± 10%	252,800 ± 14%	355,500 ± 20%	9.1 ± 22%
Missouri	34,600 ± 11%	218,800 ± 15%	450,900 ± 19%	13.0 ± 22%
North Dakota	32,200 ± 6%	157,600 ± 7%	373,000 ± 8%	11.6 ± 10%
Mississippi Flyway		3,479,100 ± 4%	6,719,700 ± 6%	
United States		6,978,400 ± 3%	14,578,900 ± 4%	

Table 3. Top 10 states in number of **adult goose hunters**, 2007, and number of hunter-days and retrieved goose kill, in each (from: Richkus, K.D, K.A. Wilkins, R.V. Raftovich, S.S. Williams, and H.L. Spriggs. 2008. Migratory Bird Hunting activity and harvest during the 2006 and 2007 hunting seasons: Preliminary estimates. U.S. Fish and Wildlife Service, Laurel, Maryland. USA July 2008. 62 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
Texas	63,600 ± 18%	197,400 ± 27%	361,700 ± 30%	5.7 ± 34%
Minnesota	56,400 ± 10%	329,400 ± 13%	203,800 ± 13%	3.6 ± 16%
Wisconsin	46,700 ± 10%	286,800 ± 15%	114,200 ± 15%	2.4 ± 18%
Pennsylvania	37,500 ± 13%	244,800 ± 18%	288,300 ± 32%	7.7 ± 34%
Michigan	34,000 ± 10%	177,400 ± 13%	149,200 ± 15%	4.4 ± 19%
Illinois	33,700 ± 10%	254,600 ± 14%	181,400 ± 14%	5.4 ± 17%
California	33,300 ± 12%	247,900 ± 15%	171,700 ± 26%	5.2 ± 29%
Maryland	26,500 ± 8%	131,900 ± 11%	173,700 ± 12%	6.6 ± 15%
North Dakota	23,100 ± 7%	99,300 ± 9%	138,100 ± 16%	6.0 ± 18%
Ohio	19,900 ± 17%	124,100 ± 23%	78,900 ± 24%	4.0 ± 31%
Mississippi Flyway		1,807,700 ± 6%	1,330,900 ± 9%	
United States ^b		3,931,600 ± 4%	3,666,100 ± 6%	

^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.

HUNTER ACTIVITY AND GOOSE HARVEST DURING THE SEPTEMBER 2007 CANADA GOOSE HUNT IN MINNESOTA

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INTRODUCTION

The September Canada goose season in Minnesota was 1-22 September 2007 (22 days). Beginning in 2007, a 7-day (16 - 22 Sep) experimental season addition was added in the Northwest Goose Zone (Fig. 1). The U.S. Fish and Wildlife Service had approved the 7-day season extension in other goose zones in Minnesota after a 3-year experimental season from 1999-2001 (Maxson et al. 2003).

During the September season the daily bag limit was 5 geese per day statewide, except in the Southeast Goose Zone where the daily bag was 2. Shooting hours were 1/2 hour before sunrise to sunset. Taking of Canada geese was prohibited on or within 100 yards of all surface waters in the Northwest, Southeast, and Twin Cities Metro Goose Zones, in the Carlos Avery Wildlife Management Area and in the Swan Lake Area. Within the Twin Cities Metro Zone, and goose refuges open to goose hunting, hunting was not permitted from public road right-of-ways. Goose hunters were required to obtain a \$4.00 permit to participate in the September season.

This report documents results of the 2007 September goose hunter mail questionnaire survey.

METHODS

Permittees were randomly selected to receive a post-season hunter survey. Questionnaires were sent to 3,100 permittees following the season. Questionnaires were individually numbered, and up to 3 questionnaires were mailed to individuals who had not responded. Completed questionnaires were double key-punched to reduce errors.

The questionnaire asked hunters which zone they hunted, number of days they hunted, and, for the season as a whole, number of geese taken and number of geese knocked down and not retrieved. The questionnaire also asked whether hunters hunted in the Northwest Zone during the final week of the season (16 – 22 Sep), and how many days and how many geese they shot and retrieved during that week.

Statistical Analysis Systems (SAS Institute Inc. 1999-2001, Version 8.2) computer programs were written to summarize responses to the questionnaire survey.

RESULTS AND DISCUSSION

The DNR License Bureau reported that 37,050 Special Canada Goose Season permits were sold prior to 23 September, 2007. Response rate to the survey was 67.7%. Among those respondents, 68.5% indicated that they hunted during the September season. Following the usual pattern, the majority of the hunters indicated they hunted in the Remainder zone, followed by the West, Twin Cities Metro, Northwest, and Southeast goose zones (Table 1). The Remainder and West zones are the largest zones (Fig. 1). Active hunters were afield an average of 3.0 to 4.4 days, and retrieved 2.6 to 4.9 geese, when totaled according to their hunt zone (Table 1). Overall, the success rate for active hunters was 70.5%.

The survey estimates that 94,314 Canada geese were harvested during the 2007 September season with approximately 62% of the harvest in the Remainder Zone and 16% in the West Zone (Table 1). This harvest pattern has remained rather consistent during the 2000-2007 September seasons (Table 2). Prior to the implementation of the Harvest Information Program, the U.S. Fish and Wildlife Service adjusted their mail survey statistics by a memory and prestige response bias factor of 0.848 for geese bagged in the Mississippi Flyway (Voelzer et al. 1982:56). Multiplying September Canada goose harvest by the adjustment factor would indicate a 2007 harvest of 79,978.

Of those hunters who indicated that they hunted in the Northwest Zone, 53% reported hunting during the final week of the season, Sep 16 – 22, 2007. This equates to 855 hunters, 1,762 hunter days, and a retrieved harvest of 1,570 geese during the experimental season (Sep 16 – 22) in the Northwest zone.

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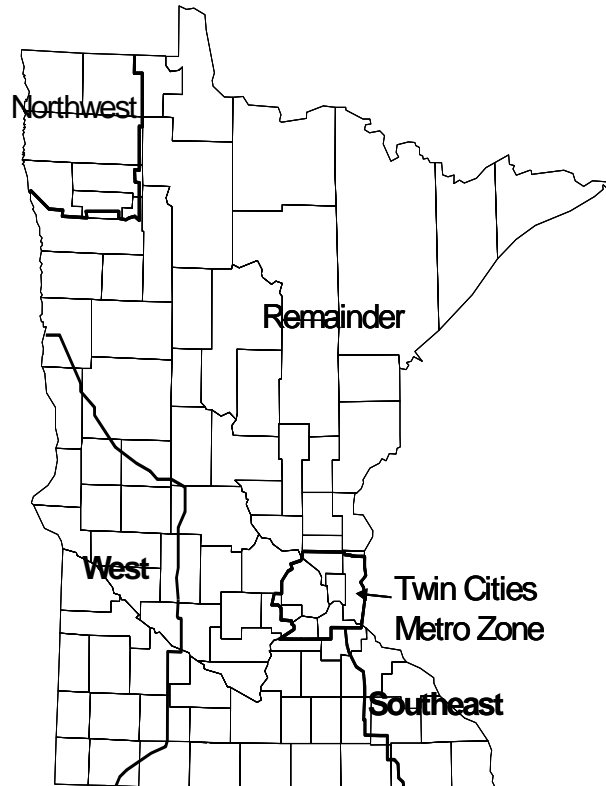


Figure 1. September season Goose Zones in

Table 1. Permit sales, hunter activity, and harvest^a by zone during the September Canada Goose season (1-22 September) in Minnesota, 2007.

Parameter	Twin Cities					Total
	Northwest	West	Southeast	Metro	Remainder	
ALL ZONES						
Total permits sold						37,050
Questionnaires delivered						3,096
Useable questionnaires returned						1,996
% responding						67.7
Active hunters						1,368
% active hunters						68.5
BY ZONE						
% Distribution of hunters by primary hunt zone	6.39	19.64	2.27	13.60	58.10	100
%successful	79.6	67.5	60.6	70.7	69.9	70.0
Days/active hunter	3.96	3.61	2.97	3.81	4.39	
Geese/active hunter	4.90	3.00	2.55	3.39	3.95	
Unretrieved harvest/active	0.61	0.45	0.21	0.31	0.47	
% unretrieved harvest	12.5	15.1	8.3	9.1	11.9	
EXPANDED:						
Active hunters	1,622	4,984	576	3,452	14,745	25,379
Hunter days	6,423	17,992	1,710	13,152	64,731	104,008
Retrieved harvest	7,948	14,952	1,469	11,702	58,243	94,314
Est. unretrieved harvest	989	2,243	121	1,070	6,930	11,360
Total harvest	8,937	17,195	1,590	12,772	65,173	105,667

^aHarvest estimates not adjusted for memory/exaggeration bias.

Table 2. Retrieved harvest estimates by zone during the September Canada Goose season in Minnesota, 2000 – 2007.

Year	Northwest	West	Southeast	Twin Cities		Total
				Metro	Remainder	
2000	2,750	18,909	1,183	15,594	51,685	90,121
2001	2,047	27,663	538	8,164	62,608	101,021
2002	1,568	22,075	848	8,504	50,769	83,764
2003	2,805	17,779	2,357	9,890	48,157	80,988
2004	4,326	16,843	1,197	11,090	56,480	89,936
2005	4,888	15,304	1,717	11,139	61,218	94,266
2006	6,826	17,987	1,461	11,844	53,321	91,439
2007	7,948	14,952	1,469	11,702	58,243	94,314

LIGHT GOOSE CONSERVATION ORDER HARVEST IN MINNESOTA, 2008

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INTRODUCTION

This report documents results of the 2008 Light Goose Conservation Order hunter mail questionnaire survey.

METHODS

Minnesota held a light goose Conservation Order harvest from 1 March - 30 April 2008. Participants were required to obtain a \$3.50 permit. No other license, stamp or permit was required. Shooting hours were 1/2 hour before sunrise to 1/2 hour after sunset. There were no daily or possession limits. Use of electronic calls and unplugged shotguns was allowed.

All permit holders were sent a questionnaire after the season. Survey questions are listed in Figure 1. Second and third mailings were sent to non-respondents after one month had elapsed.

RESULTS AND DISCUSSION

A total of 1,406 permits was issued and 910 responses (64.7%) to the questionnaire were obtained (Table 1). In calculating harvest estimates, we assumed that the 496 non-respondents participated in the conservation action and took light geese in the same manner as respondents (i.e., tallies were expanded by 1.55). More light geese were present in Minnesota during spring 2008 than spring 2007, and harvest was again concentrated in the southwest portion of the state with some also being taken in west-central Minnesota. Seven hundred seventy-five people attempted to take light geese during the 61-day conservation order period. Active participants pursued light geese for 3,415 days and 2,412 light geese were shot and retrieved. This was an average retrieved take of 3.1 geese per active participant. Another 288 light geese were reported wounded and not retrieved.

Unplugged shotguns were used by 361 (46.6%) individuals to take 1279 (53.0%) geese, of which 339 (26.5%) were taken with the 4th, 5th, or 6th shell. Electronic calls were used by 147 (19.0%) participants to take 567 (23.5%) light geese. During the 1/2 hour after sunset period, 512 (21.2%) geese were harvested by 326 (42.1%) active hunters.

Figure 1. Questionnaire mailed to Light Goose Conservation Order license holders.

MINNESOTA 2008 LIGHT GOOSE HARVEST SURVEY
For the Period of March 1 - April 30, 2008 ONLY

You are being asked to provide information to help us evaluate the harvest of light geese (snow, blue, and Ross' geese) in Minnesota during March 1 - April 30, 2008. Your cooperation is important. Please return this survey card even if you did not hunt light geese. Please answer the following questions to the best of your ability.
Please answer only for your Minnesota 2008 hunting experience.
THANK YOU! Dave Schad, Director, Division of Fish and Wildlife, MN DNR.

1. Did you hunt light geese in Minnesota during March 1 - April 30, 2008? Yes / No
If NO, please disregard all remaining questions and return this survey card.
2. How many days did you hunt light geese in Minnesota during March 1 - April 30, 2008? _____
3. In what county did you hunt light geese most often during March 1 - April 30, 2008? _____
4. How many light geese did you personally shoot and retrieve in Minnesota? _____
5. How many light geese did you personally shoot, but were UNABLE to retrieve? _____
6. Did you hunt light geese in Minnesota with a gun(s) that was holding more than 3 shells? Yes / No
7. If yes, how many light geese did you shoot with a gun holding more than 3 shells? _____
8. How many light geese did you shoot and retrieve with the 4th, 5th, or 6th shell? _____
9. Did you hunt light geese in Minnesota with the aid of an electronic caller? Yes / No
10. If yes, how many light geese did you shoot and retrieve with the aid of an electronic caller? _____
11. Did you hunt light geese in Minnesota during the 1/2 hour after sunset period? Yes / No
12. If yes, how many light geese did you shoot and retrieve during the 1/2 hour after sunset period? _____

Dear Light Goose Permit holder:

You are being asked to assist us in evaluating the March 1 - April 30, 2008 Light Goose Conservation Order. Please answer only for your Minnesota 2008 hunting experience.

YOUR RESPONSE IS NEEDED EVEN IF YOU DID NOT HUNT THIS YEAR.

Please fill out the attached questionnaire and mail as soon as possible. A reminder will be sent to individuals not returning the questionnaire within three weeks. No envelope or stamp is necessary; just tear along the perforation and drop into a mailbox.

THANK YOU FOR YOUR COOPERATION

Dave Schad, Director
Division of Fish and Wildlife
Department of Natural Resources

Table 1. Summary of Light Goose Conservation Order harvest in Minnesota, 2000-2008.

Parameter	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total permits sold	1,982	1,128	1,997	1,438	1,424	1,383	1,363	1,292	1,406
Usable questionnaires returned	1,457	769	1,375	1,071	1,095	998	955	921	910
% Responding	73.5	68.2	68.9	74.4	76.9	72.2	70.1	71.3	64.7
Active hunters	1,461	393	1,209	553	690	618	516	514	775
% Active hunters	73.7	34.8	60.5	38.5	48.5	44.7	37.3	39.8	55.1
Total hunter days	8,244	2,112	5,517	2,600	3,372	2,643	2,665	2,302	3,415
Days/active hunter	5.6	5.4	4.6	4.7	4.9	4.3	5.2	4.5	4.4
Retrieved harvest	6,290	316	3,516	2,005	2,735	1,395	1,360	1,786	2,412
Geese/active hunter	4.3	0.8	2.9	3.6	4.0	2.3	2.6	3.5	3.1
Unretrieved harvest	904	19	637	253	315	150	163	172	288
No. using unplugged guns	830	193	560	280	333	272	215	224	361
Take w/unplugged guns	4,416	129	2,137	996	1,385	777	689	1,032	1,279
Take w/shell 4-5-6	1,316	68	615	401	491	269	287	277	339
No. using electronic calls	218	56	142	87	133	110	73	88	147
Take w/electronic calls	854	103	512	474	326	268	280	329	567
No. hunting ½ hr after sunset	696	141	550	228	265	264	223	197	326
Take ½ hr after sunset	1,185	43	841	267	311	242	246	209	512

2007 FALL WILD TURKEY HARVEST REPORT

Eric Dunton, Farmland Wildlife Populations and Research Group

Minnesota's fall turkey hunting season uses a permit area quota system similar to spring turkey hunting. Fall hunting varies from spring hunting in that there are fewer permit areas open and fewer permits available because of the potential to reduce the size of the turkey population (i.e., additive mortality via harvest of hens). In addition, fewer hunters participate in fall turkey hunting due to several factors such as competition with other fall hunting activities and the method of hunting turkeys varies from spring turkey hunting.

The 2007 fall turkey season took place during 2, 5-day time periods. Time Period A occurred from 17-21 October Time Period B occurred from 24-28 October. A total of 33 permit areas were open to fall hunting. An increase of 1 permit area from the 2006 season, permit area 227. For all permit areas and time periods 4,464 individuals applied for 4,490 available permits, an increase of 200 permits from 2006 (Table 1, Figure 1). However, only 2,837 permits were issued, an increase of 35 permits from 2006 (Table 2). The majority (93%) of permits were general lottery permits, compared to 4% landowners, and 3% surplus permits (Table 2).

Total registered harvest was 396 turkeys during time period A and 299 turkeys during time period B, for a total of 695 turkeys for both time periods (Table 3). Overall harvest was up from 618 turkeys in 2006 but down from the 5-year average of 708 (Table 1). Hunter success averaged 27%, which was similar to 25% success during the 2006 season and the 5-year average of 26% success (Table 1). Far more turkeys were harvested by shotgun (95%) than by archery (5%) or muzzleloader (< 1%, Table 4).

A total of 402 female turkeys were harvested representing 58% of the total harvest, which was similar to the 2006 season (Tables 5-6). A total of 196 juvenile turkeys comprised 28% of the harvest, with 15% juvenile male and 13% juvenile female (Tables 5-6). Harvest age ratios are assumed biased due to hunter preference for harvesting an adult turkey and age/sex information are reported by hunters (i.e., some juveniles get reported as adults).

Monitoring wild turkey harvest is an important component of population management. Information gathered during the fall hunting season is used for modeling permit numbers for future hunts. Turkey populations and range continue to expand across the state. This has allowed additional permit areas to be opened for fall turkey hunting and permit numbers continue to gradually increase each year.

Table 1. Number of permits available, applicants, harvest, and adjusted harvest success rates for fall turkey hunting seasons 1990-2007, Minnesota.

Year	Permits Available	Applicants	Permits Issued	Total harvest	Success rate (%) ^a
1990	1000	4522	951	326	38
1991	2200	2990	2020	552	30
1992	2200	2782	2028	588	32
1993	2400	3186	2094	605	32
1994	2500	3124	2106	601	32
1995	2500	3685	2125	648	34
1996	2500	4453	2289	685	33
1997	2580	4574	2378	698	33
1998	2710	4526	2483	828	37
1999	2890	5354	2644	865	36
2000	3090	5263	2484	735	33
2001	2870	4501	2262	629	31
2002	3790	5180	2945	594	22
2003	3870	5264	2977	889	33
2004	4380	5878	3277	758	26
2005	4410	4542	2978	681	25
2006	4290	4167	2802	618	25
2007	4490	4464	2837	695	27

^a Harvest rates adjusted using an estimated 10% non-participation rate based on hunter survey data.

Table 2. Number of permits available and issued by type, time period, and permit area for the 2007 fall turkey season, Minnesota.

Permit Area	Permits Available	General lottery		Landowner		Surplus	
		Time A	Time B	Time A	Time B	Time A	Time B
227	100	35	33	1	1	0	0
228	100	41	41	0	1	0	0
236	210	77	50	2	1	0	17
337	100	37	34	0	0	0	0
338	140	51	40	6	1	0	10
339	140	48	32	1	0	0	7
341	250	182	115	8	3	0	11
342	350	107	68	5	1	6	1
343	200	65	75	9	1	0	0
344	150	43	50	0	1	0	0
345	180	41	22	0	0	1	0
346	300	106	49	4	3	1	4
347	100	42	43	2	1	0	0
348	250	93	81	4	0	0	2
349	450	129	83	4	0	0	0
420	10	0	4	2	0	0	0
422	10	5	4	0	0	0	0
425	10	4	3	0	1	0	0
431	10	4	4	0	1	0	0
433	10	5	4	0	0	0	0
442	250	86	71	6	3	0	16
443	100	40	21	1	0	0	0
446	10	4	0	1	2	0	0
447	10	3	1	0	0	0	0
448	10	2	7	2	0	0	0
449	10	4	5	1	0	0	0
450	10	3	3	0	0	0	0
461	200	70	51	5	4	0	17
462	220	69	60	7	1	0	0
464	70	21	8	0	0	0	3
465	80	19	11	0	0	1	1
466	150	33	19	1	1	1	2
467	100	36	29	4	6	0	1
Total	4490	1505	1121	76	33	10	92

Table 3. Permits and harvest by time period and permit area for the 2007 fall turkey season, Minnesota.

Permit Area	Permits			Harvest			
	Available	Issued time A	Issued time B	Total	Time A	Time B	Total
227	100	36	34	70	15	7	22
228	100	41	42	83	16	9	25
236	210	79	68	147	23	16	39
337	100	37	34	71	11	11	22
338	140	57	51	108	18	11	29
339	140	49	39	88	11	5	16
341	450	190	129	319	40	30	70
342	350	118	70	188	32	21	53
343	200	74	76	150	14	29	43
344	150	43	51	94	11	7	18
345	180	42	22	64	5	2	7
346	300	111	56	167	17	14	31
347	100	44	44	88	6	9	15
348	250	97	83	180	26	27	53
349	450	133	83	216	24	15	39
420	10	2	4	6	2	0	2
422	10	5	4	9	3	1	4
425	10	4	4	8	2	1	3
431	10	4	5	9	2	0	2
433	10	5	4	9	1	3	4
442	250	92	90	182	26	21	47
443	100	41	21	62	4	3	7
446	10	5	2	7	2	0	2
447	10	3	1	4	0	0	0
448	10	4	7	11	0	2	2
449	10	5	5	10	1	0	1
450	10	3	3	6	1	0	1
461	200	75	72	147	25	26	51
462	220	76	61	137	26	18	44
464	70	21	11	32	10	3	13
465	80	20	12	32	10	2	12
466	150	35	22	57	5	1	6
467	100	40	36	76	7	5	12
Total	4490	1591	1246	2837	396	299	695

Table 4. Total harvest and harvest method by permit area for the 2007 fall turkey season, Minnesota.

Permit Area	Harvest	Shotgun	Archery	Muzzleloader
227	22	21	1	0
228	25	19	6	0
236	39	36	3	0
337	22	16	6	0
338	29	28	1	0
339	16	16	0	0
341	70	65	3	2
342	53	52	1	0
343	43	39	3	1
344	18	18	0	0
345	7	7	0	0
346	31	30	1	0
347	15	15	0	0
348	53	51	2	0
349	39	38	0	1
420	2	2	0	0
422	4	4	0	0
425	3	3	0	0
431	2	2	0	0
433	4	4	0	0
442	47	47	0	0
443	7	7	0	0
446	2	2	0	0
447	0	0	0	0
448	2	2	0	0
449	1	1	0	0
450	1	1	0	0
461	51	51	0	0
462	44	42	1	1
464	13	13	0	0
465	12	12	0	0
466	6	4	2	0
467	12	10	2	0
Total	695	658	32	5

Table 5. Total harvest by sex, age, and permit area for the 2007 fall turkey season, Minnesota.

Permit Area	Male Harvest		Female Harvest		Total Harvest
	Juvenile	Adult	Juvenile	Adult	
227	1	6	4	11	22
228	4	10	1	10	25
236	5	13	2	19	39
337	5	11	0	6	22
338	0	17	1	11	29
339	2	5	2	7	16
341	13	18	6	33	70
342	7	6	11	29	53
343	9	10	6	18	43
344	5	2	0	11	18
345	2	1	2	2	7
346	6	6	2	17	31
347	1	3	4	7	15
348	6	8	11	28	53
349	5	11	5	18	39
420	0	1	1	0	2
422	1	2	0	1	4
425	1	1	0	1	3
431	2	0	0	0	2
433	1	3	0	0	4
442	4	15	9	19	47
443	2	3	0	2	7
446	0	1	1	0	2
447	0	0	0	0	0
448	0	0	0	2	2
449	0	0	0	1	1
450	0	1	0	0	1
461	8	20	8	15	51
462	5	8	9	22	44
464	3	2	2	6	13
465	2	1	4	5	12
466	2	2	0	2	6
467	1	3	2	6	12
Total	103	190	93	309	695

Table 6. Harvest sex and age structure for the fall turkey seasons 1990-2007, Minnesota.

Year	Male Harvest (%)			Female Harvest (%)			Unknown Age/Sex (%)	Total Harvest
	Juvenile	Adult	Unknown	Juvenile	Adult	Unknown		
1990	21	25		26	28			326
1991	22	15		38	25			552
1992	20	15		35	30			588
1993	18	19		30	32		< 1	605
1994	17	14		35	34			601
1995	20	21		30	29			648
1996	14	20		33	33			685
1997	16	19		31	34			698
1998	18	17		32	33		< 1	828
1999	16	25		29	30			865
2000	14	24		28	34			735
2001	13	19		28	40			629
2002	16	18	< 1	28	35	< 1	2	594
2003	14	27		18	39	< 1	2	889
2004	12	37		11	40		< 1	745
2005	15	19		20	45		< 1	681
2006	18	23		13	45			618
2007	15	27		13	44			695

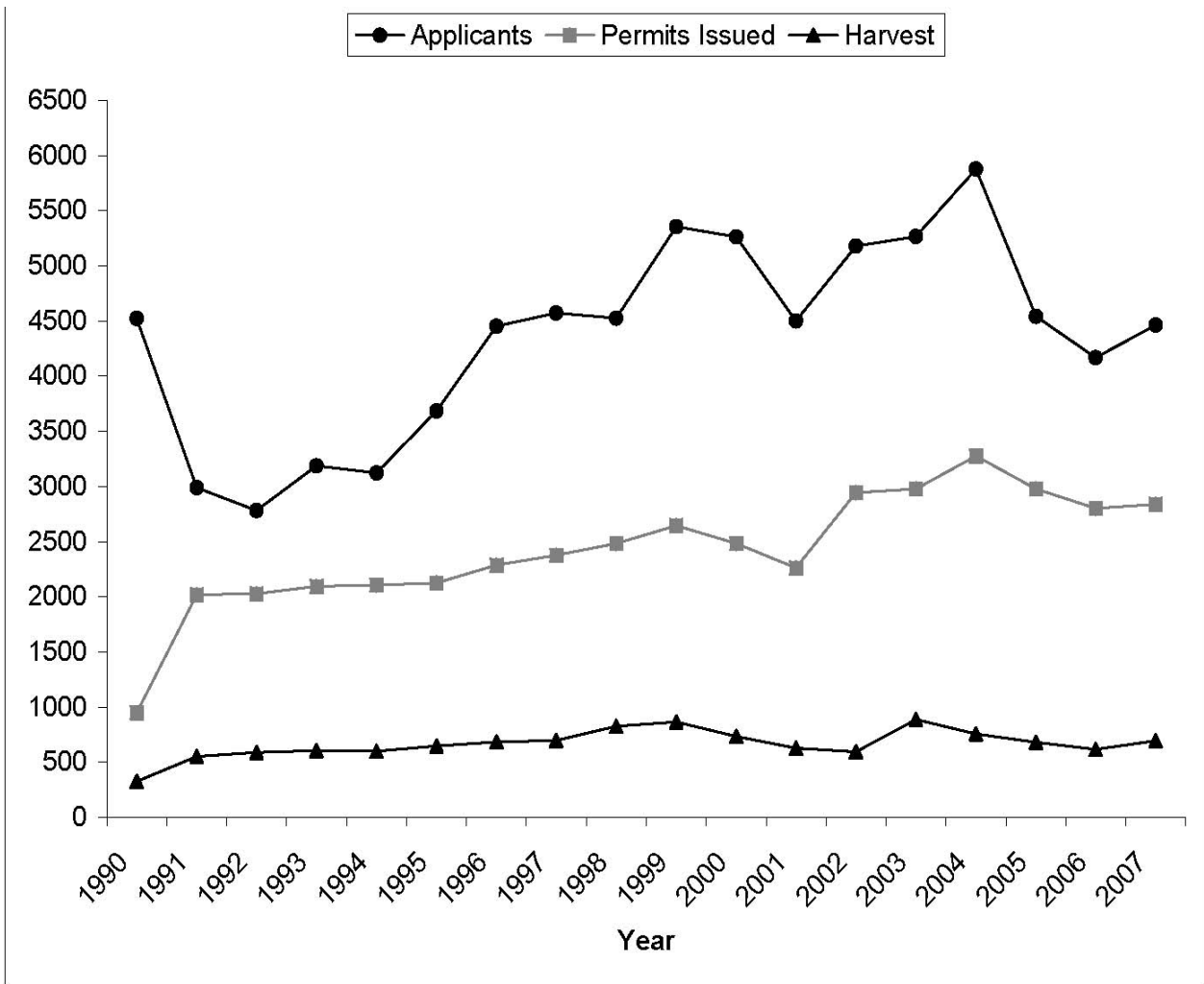


Figure 1. Permit applicants, permits issued, and total harvest for fall turkey seasons 1990 -2007, Minnesota.

SPRING WILD TURKEY HARVEST REPORT, 2008

Eric Dunton, Farmland Wildlife Populations and Research Group

INTRODUCTION

In Minnesota, the demand for spring turkey permits exceeds the supply of permits available. To regulate harvest and distribute hunting pressure, permits are allocated across 73 permit areas (PAs) and 8 time periods using a quota system (Figure 1). Hunters interested in pursuing wild turkeys are required to apply for a permit through a drawing based on a system of preference. Preference is determined by the number of years a valid but unsuccessful application has been submitted since last receiving a permit. Hunters may apply individually or in a group of up to 4 members, and may apply for a second choice permit area and time period. Successful applicants are notified through mail, unsuccessful applicants are awarded a preference point. The goal of this system is to provide quality turkey hunting opportunities where populations can sustain harvest.

METHODS

Three types of hunting licenses were available to spring turkey hunters: (1) general lottery permit in which an applicant or a group of up to 4 hunters applied for a specific PA and time period (2) landowner permit in which up to 20% of permits for each PA and time period were reserved for landowners or tenants who lived on 40 acres or more of land within the PA, and (3) archery permits which could be purchased for the last 2 time periods of any PA with 50 or more permits per period.

RESULTS

During 2008 we received 51,000 applications for 37,992 permits (Table 1). Almost 32,000 general lottery and landowner permits were issued to hunters, and about 4,000 were issued to archers (Table 2). Hunters registered almost 11,000 turkeys, an increase of 17% from 2007 and harvest increased in 74% of PAs, which was the highest recorded harvest in history (Table 1). Hunter success averaged 34%, which was above the 5-year average 32% (Table 1). Hunter success by PA ranged from 13% (PA 426) to 67% (PA 156) (Table 2, Figure 2). Similar to the 5-year average, hunter success rates were highest during the first 2 time periods (Table 3).

A mentored youth hunt sponsored by non-profit organizations was held on weekends from mid April through May. During 2008, 270 youth hunters registered 100 turkeys, an increase of 57% from 2007. Success averaged 37%, which was above the 2007 success rate (33%; Table 3).

DISCUSSION

A series of late spring snowstorms dropped unusually heavy snow across the Red River Valley and portions of western Minnesota during early April. April precipitation totals were above historic averages, and air temperatures ranged from 1.12 – 2.24°C (2 - 4°F) below normal across Minnesota (Minnesota Climatology Working Group 2008). May precipitation totals were near historic averages, and air temperatures ranged from 1.68 – 3.36°C (3 - 6 °F) below normal across Minnesota (Minnesota Climatology Working Group 2008). Despite the cool, wet spring conditions, 2008 was the highest recorded harvest of wild turkeys in Minnesota. The continued increase in harvest can be partially attributed to the increase in the number of permits available (i.e., 4,016) from 2007 and 8 new permit areas, open to hunting. Increased permits and permit areas resulted in more opportunities for hunters to harvest turkeys.

LITERATURE CITED

Minnesota Climatology Working Group. 2008. Climate journal. <http://climate.umn.edu/> Accessed 16 June 2008.

Table 1. Spring and fall applicants, permits available, permits issued and harvest from 1978 – 2008 for all wild turkey hunting seasons, Minnesota.

Year	Spring						Fall		
	Applicants	Permits available	Permits issued	Permits issued (%)	Registered harvest	Hunter success (%) ^a	Applicants	Permits available	Permits issued
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	4,542	4,410	681
2006 ^b	45,704	32,624	27,876	85.4	8,241	29.6	4,167	4,290	618
2007 ^b	52,566	33,976	28,320	83.4	9,412	33.2	4,464	4,490	695
2008	51,000	37,992	31,942	84.1	10,994	34.4	-	-	-

^a Success rate not adjusted for non-participation

^b Youth hunt data included

Table 2. Permits available, permits issued, registered harvest, success, and average success rates by permit area for the 2008 spring wild turkey season, Minnesota.

Permit area	Permits available	Permits issued ^a	Registered harvest	Success (%) ^b	Success 5-year average (%)
152 ^c	40	36	13	36.1	-
156 ^c	40	33	22	66.7	-
157	240	221	96	43.4	42.4
159	80	75	29	38.7	37.0
183 ^c	40	40	8	20.0	-
213 ^e	480	443	218	49.2	46.8
214	280	240	110	45.8	39.9
215 ^e	680	616	279	45.3	42.9
218 ^e	680	613	291	47.5	50.3
219	440	395	145	36.7	32.8
221 ^f	240	213	115	54.0	52.5
222	160	150	65	43.3	49.7
223	720	638	278	43.6	36.4
225	1320	1163	333	28.6	27.2
227	800	724	261	36.0	38.0
229	320	267	75	28.1	26.0
235	120	114	33	28.9	35.0
236	1120	977	379	38.8	38.1
239	880	768	301	39.2	42.2
240	680	604	248	41.1	39.7
241 ^c	120	110	49	44.5	-
243 ^c	80	67	27	40.3	-
244	320	268	96	35.8	33.2
248	200	208	94	45.2	47.2
249	320	285	95	33.3	32.5
262 ^c	56	55	26	47.3	-
338	680	600	200	33.3	33.2
339	640	557	187	33.6	34.8
341	1880	1633	587	35.9	33.9
342	1800	1434	424	29.6	26.0
343	1320	1187	514	43.3	40.9
344	1000	854	263	30.8	24.9
345	1400	1015	247	24.3	20.2
346	2600	1728	447	25.9	23.2
347	1200	1023	272	26.6	26.1
348	1400	1151	327	28.4	25.4
349	3600	2621	564	21.5	22.5
412 ^e	240	222	93	41.9	43.0
416 ^e	120	113	45	39.8	37.1
417 ^e	360	342	152	44.4	40.8
420	120	85	26	30.6	38.7

Table 2. Continued.

Permit area	Permits available	Permits issued ^a	Registered harvest	Success (%) ^b	Success 5-year average (%) ^c
421 ^c	56	35	8	22.9	-
422	80	77	49	63.6	53.4
423 ^c	40	29	8	27.6	-
424 ^f	80	76	23	30.3	37.9
425	480	443	173	39.1	39.8
426	40	32	4	12.5	19.9
427	80	64	24	37.5	32.8
428	200	172	92	53.5	43.8
431	80	76	36	47.4	51.5
433	64	60	33	55.0	51.8)
440	600	522	174	33.3	30.2
442	1280	1161	421	36.3	33.9
443	680	578	180	31.1	29.4
446 ^f	56	49	22	44.9	44.8
447 ^f	80	66	13	19.7	27.5
448	80	72	25	34.7	51.3
449	80	79	36	45.6	47.5
450	120	100	25	25.0	27.4
451 ^f	120	109	33	30.3	46.3
454 ^f	40	38	18	47.4	35.6
456 ^f	40	29	5	17.2	9.3
457	80	73	39	53.4	42.6
458	80	49	10	20.4	29.7
459	200	171	32	18.7	23.2
461	880	800	332	41.5	38.0
462	880	790	307	38.9	37.3
463	200	183	71	38.8	37.7
464	280	253	83	32.8	32.5
465	320	256	87	34.0	29.0
466	640	510	149	29.2	30.9
467 ^d	400	368	146	37.7	35.2
601	840	734	302	41.1	38.9
Total	37992	31942	10994	34.4	

^a 4,020 permits were issued to archery hunters and are not included in these figures

^b Success rates not adjusted for non-participants

^c New permits areas for the 2008 spring season

^d Permit areas 228 and 337 were combined into permit area 601

^e Permit area boundary change in 2006 success rate (%) 2-year average

^f Permit area boundary change or new permit area in 2005 success rate (%) 4-year average

Table 3. Permits issued, registered harvest, success, and average success by time period for the 2008 spring wild turkey season, Minnesota.

Time period ^a	Permits issued	Registered harvest	Success (%) ^b	Success 5– year average (%)
A	4,324	1,872	43.3	42.6
B	4,272	1,729	40.5	40.1
C	4,272	1,356	31.7	30.6
D	4,216	1,329	31.5	27.5
E	4,169	1,435	34.4	32.0
F	3,561	1,021	28.7	28.7
G	3,798	1,236	32.5	25.5
H	3,060	916	29.9	25.2
Youth Hunt				
U	4	0	0	
V	7	2	28.6	
W	0	0	0	
X	7	0	0	
Y	240	94	39.2	
Z	12	4	33.3	
Total	31,942	10,994	34.4	

^a A = 16–20 April, B = 21-25 April, C = 26-30 April, D = 1-5 May, E = 6-10 May, F = 11-15 May, G = 16-22 May, H = 23-29 May, U = 17-18 May, V = 10-11 May, W = 3-4 May, X = 26-27 April, Y = 19-20 April, Z = 12-13 April.

^b Success rates not adjusted for non-participants

2008 Spring Wild Turkey Permit Areas

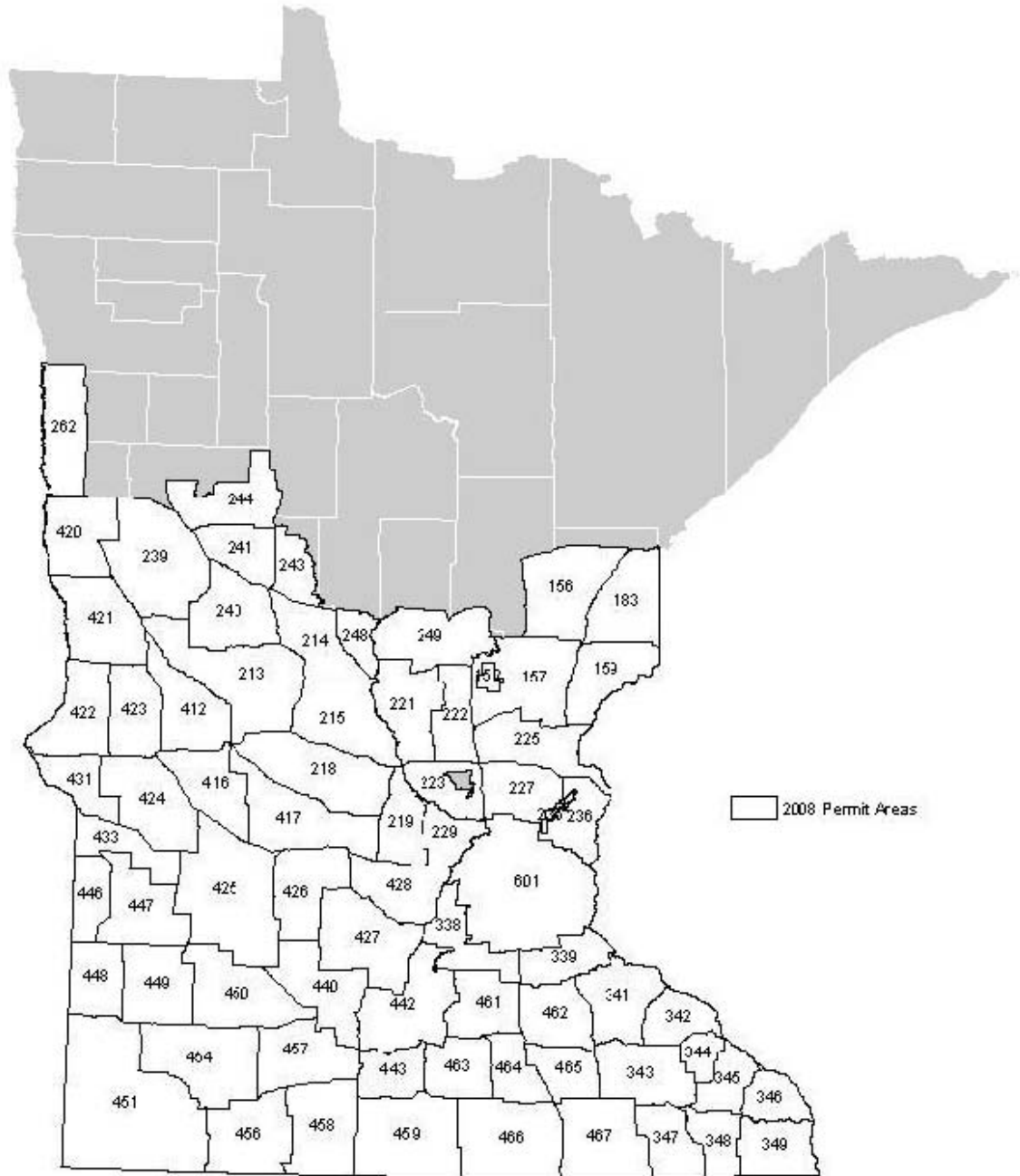


Figure 1. Permit areas open for hunting during the 2008 spring turkey hunting season, Minnesota.

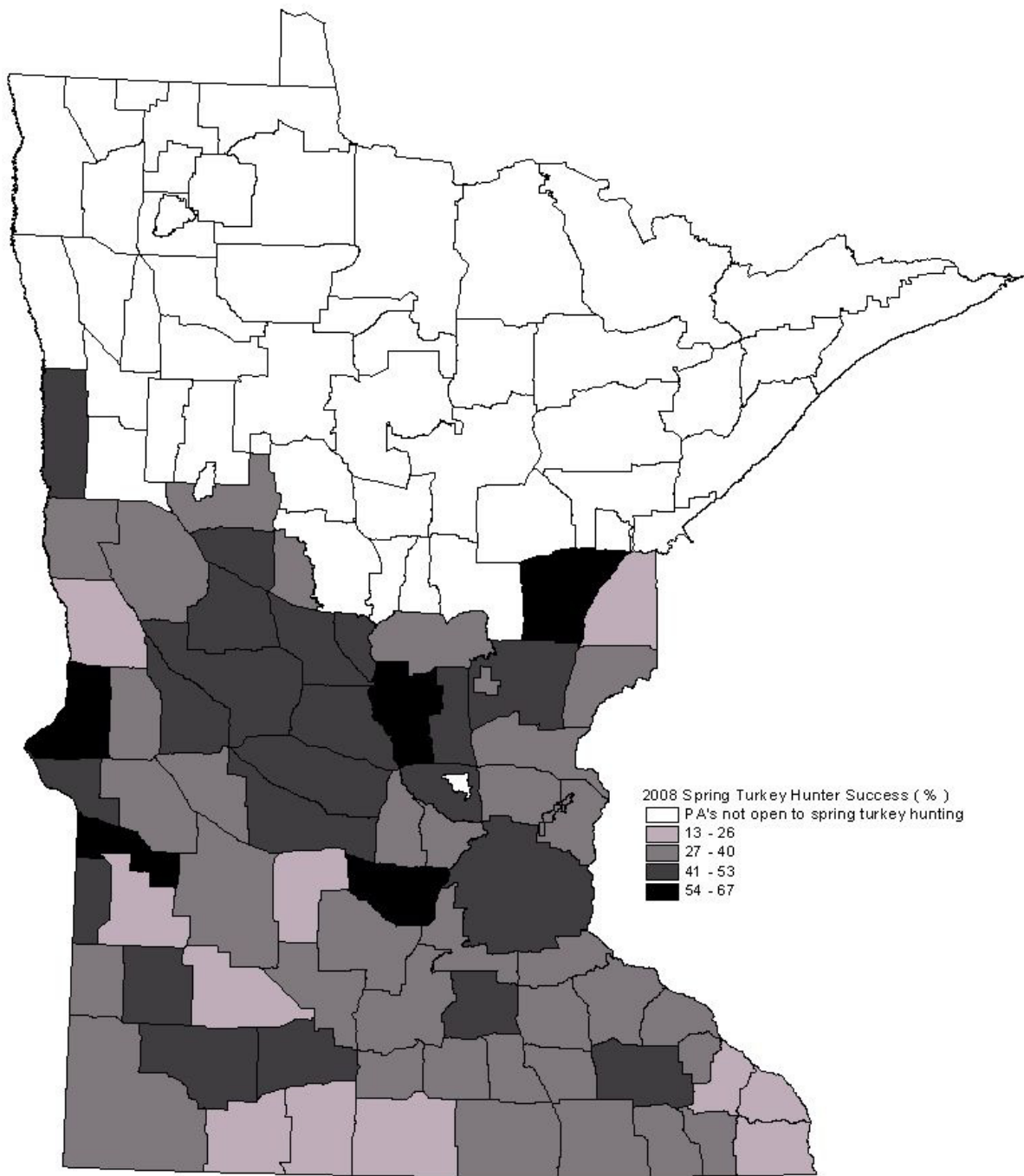


Figure 2. Hunter success for the 2008 spring turkey hunting season, Minnesota.

Appendix A. Registered harvest, general lottery applicants, total permits available, landowner permits available, general lottery permits available, and the chance of being drawn in the general lottery by permit area and time period for the 2008 spring wild turkey season, Minnesota.

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner permits ^a	General lottery permits	Chance of general lottery applicant being drawn (%) ^b
152	A	3	10	5	0	5	50
	B	3	2	5	0	5	100
	C	0	9	5	0	5	56
	D	1	3	5	0	5	100
	E	3	1	5	0	5	100
	F	2	0	5	0	5	100
	G	1	1	5	0	5	100
	H	0	0	5	0	5	100
156	A	4	7	5	1	4	57
	B	2	8	5	1	4	50
	C	3	14	5	0	5	36
	D	3	15	5	1	4	27
	E	2	11	5	0	5	45
	F	3	2	5	1	4	100
	G	3	7	5	0	5	71
	H	2	4	5	0	5	100
157	A	15	154	30	8	22	14
	B	15	94	30	6	24	26
	C	8	164	30	3	27	16
	D	12	76	30	3	27	36
	E	12	20	30	0	30	100
	F	15	25	30	1	29	100
	G	9	27	30	2	28	100
	H	10	9	30	0	30	100
159	A	4	77	10	2	8	10
	B	5	36	10	2	8	22
	C	7	62	10	2	8	13
	D	1	43	10	2	8	19
	E	4	13	10	2	8	62
	F	4	14	10	0	10	71
	G	4	9	10	0	10	100
	H	0	5	10	1	9	100
183	A	1	13	5	2	3	23
	B	0	13	5	0	5	38
	C	2	28	5	0	5	18
	D	1	19	5	1	4	21
	E	1	10	5	0	5	50
	F	1	1	5	0	5	100
	G	1	3	5	0	5	100
	H	1	4	5	0	5	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
213	A	28	215	60	15	45	21
	B	30	199	60	13	47	24
	C	21	278	60	13	47	17
	D	30	200	60	9	51	26
	E	26	96	60	6	54	56
	F	25	32	60	2	58	100
	G	24	65	60	4	56	86
	H	27	19	60	0	60	100
214	A	20	140	35	5	30	21
	B	13	62	35	7	28	45
	C	17	98	35	8	27	28
	D	11	61	35	4	31	51
	E	22	17	35	1	34	100
	F	8	5	35	2	33	100
	G	8	13	35	0	35	100
	H	11	15	35	1	34	100
215	A	38	324	85	17	68	21
	B	37	180	85	10	75	42
	C	34	405	85	10	75	19
	D	42	224	85	5	80	36
	E	40	83	85	2	83	100
	F	33	29	85	2	83	100
	G	34	69	85	1	84	100
	H	21	28	85	1	84	100
218	A	46	281	85	17	68	24
	B	39	188	85	16	69	37
	C	32	402	85	18	67	17
	D	33	223	85	7	78	35
	E	30	81	85	0	85	100
	F	28	54	85	1	84	100
	G	43	80	85	5	80	100
	H	30	15	85	3	82	100
219	A	25	157	55	4	51	32
	B	29	128	55	4	51	40
	C	19	153	55	3	52	34
	D	14	95	55	0	55	58
	E	23	69	55	2	53	77
	F	8	8	55	1	54	100
	G	18	15	55	0	55	100
	H	8	5	55	0	55	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
221	A	14	129	30	6	24	19
	B	22	90	30	6	24	27
	C	13	155	30	6	24	15
	D	11	88	30	2	28	32
	E	18	35	30	0	30	86
	F	9	15	30	0	30	100
	G	16	33	30	1	29	88
	H	12	10	30	0	30	100
222	A	7	104	20	4	16	15
	B	10	55	20	3	17	31
	C	10	116	20	4	16	14
	D	15	74	20	1	19	26
	E	4	34	20	2	18	53
	F	9	11	20	2	18	100
	G	8	15	20	2	18	100
	H	2	10	20	0	20	100
223	A	45	395	90	16	74	19
	B	44	176	90	10	80	45
	C	36	298	90	8	82	28
	D	39	172	90	1	89	52
	E	23	112	90	2	88	79
	F	30	32	90	0	90	100
	G	36	44	90	1	89	100
	H	22	14	90	3	87	100
225	A	65	360	165	33	132	37
	B	51	227	165	18	147	65
	C	38	340	165	23	142	42
	D	36	200	165	6	159	80
	E	46	89	165	0	165	100
	F	27	43	165	1	164	100
	G	33	28	165	0	165	100
	H	35	8	165	0	165	100
227	A	51	311	100	9	91	29
	B	38	182	100	7	93	51
	C	27	299	100	9	91	30
	D	28	148	100	3	97	66
	E	27	117	100	1	99	85
	F	26	16	100	0	100	100
	G	33	29	100	6	94	100
	H	24	18	100	0	100	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
229	A	15	74	40	3	37	50
	B	12	37	40	1	39	100
	C	11	60	40	2	38	63
	D	5	47	40	0	40	85
	E	11	8	40	1	39	100
	F	7	14	40	0	40	100
	G	8	12	40	0	40	100
	H	6	0	40	0	40	100
235	A	8	104	15	0	15	14
	B	6	36	15	0	15	42
	C	4	63	15	0	15	24
	D	3	35	15	0	15	43
	E	4	21	15	0	15	71
	F	4	7	15	0	15	100
	G	4	21	15	0	15	71
	H	0	5	15	0	15	100
236	A	63	383	140	18	122	32
	B	51	252	140	5	135	54
	C	36	388	140	8	132	34
	D	46	195	140	3	137	70
	E	43	106	140	1	139	100
	F	40	46	140	0	140	100
	G	44	55	140	1	139	100
	H	48	21	140	0	140	100
239	A	52	391	110	18	92	24
	B	48	219	110	14	96	44
	C	27	405	110	9	101	25
	D	37	255	110	8	102	40
	E	32	130	110	2	108	83
	F	29	33	110	0	110	100
	G	40	51	110	2	108	100
	H	32	23	110	2	108	100
240	A	46	236	85	15	70	30
	B	35	159	85	17	68	43
	C	27	262	85	15	70	27
	D	28	143	85	7	78	55
	E	27	64	85	2	83	100
	F	18	36	85	2	83	100
	G	26	23	85	2	83	100
	H	29	12	85	0	85	100
241	A	7	42	15	2	13	31
	B	9	24	15	4	11	46
	C	3	59	15	3	12	20
	D	7	20	15	2	13	65
	E	5	6	15	0	15	100
	F	8	9	15	0	15	100
	G	6	8	15	0	15	100
	H	4	0	15	0	15	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
262	A	3	7	7	0	7	100
	B	7	5	7	0	7	100
	C	5	12	7	0	7	58
	D	3	1	7	0	7	100
	E	2	2	7	0	7	100
	F	5	0	7	0	7	100
	G	1	0	7	0	7	100
	H	0	1	7	0	7	100
338	A	28	245	85	17	68	28
	B	33	165	85	10	75	45
	C	27	232	85	13	72	31
	D	30	154	85	5	80	52
	E	26	66	85	1	84	100
	F	11	34	85	0	85	100
	G	26	32	85	1	84	100
	H	14	11	85	0	85	100
339	A	22	250	80	16	64	26
	B	34	150	80	3	77	51
	C	23	187	80	8	72	39
	D	18	145	80	3	77	53
	E	24	44	80	1	79	100
	F	21	21	80	0	80	100
	G	24	35	80	0	80	100
	H	19	8	80	1	79	100
341	A	78	636	235	30	205	32
	B	82	425	235	21	214	50
	C	73	600	235	24	211	35
	D	73	496	235	8	227	46
	E	87	186	235	2	233	100
	F	56	99	235	0	235	100
	G	65	124	235	2	233	100
	H	65	51	235	0	235	100
342	A	68	445	225	45	180	40
	B	71	283	225	8	217	77
	C	64	489	225	21	204	42
	D	61	264	225	7	218	83
	E	66	120	225	0	225	100
	F	53	53	225	3	222	100
	G	34	44	225	2	223	100
	H	7	23	225	0	225	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
343	A	61	504	165	33	132	26
	B	69	299	165	20	145	48
	C	66	643	165	33	132	21
	D	53	299	165	21	144	48
	E	63	176	165	2	163	93
	F	53	76	165	1	164	100
	G	81	122	165	0	165	100
	H	64	57	165	9	156	100
344	A	48	425	125	22	103	24
	B	45	260	125	12	113	43
	C	36	302	125	5	120	40
	D	27	245	125	0	125	51
	E	30	124	125	0	125	100
	F	30	71	125	1	124	100
	G	24	81	125	0	125	100
	H	19	15	125	0	125	100
345	A	60	239	175	27	148	62
	B	54	183	175	8	167	91
	C	33	248	175	5	170	69
	D	27	191	175	4	171	90
	E	37	64	175	1	174	100
	F	19	26	175	0	175	100
	G	13	11	175	2	173	100
	H	4	12	175	0	175	100
346	A	97	551	325	53	272	49
	B	88	341	325	11	314	92
	C	54	465	325	10	315	68
	D	80	316	325	10	315	99
	E	58	146	325	0	325	100
	F	21	52	325	0	325	100
	G	40	82	325	5	320	100
	H	9	12	325	0	325	100
347	A	49	336	150	20	130	39
	B	47	185	150	6	144	78
	C	28	367	150	17	133	36
	D	34	193	150	8	142	74
	E	39	112	150	0	150	100
	F	21	32	150	2	148	100
	G	30	64	150	1	149	100
	H	19	16	150	0	150	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery Applicant ^b being drawn (%)
348	A	63	456	175	24	151	33
	B	47	264	175	4	171	65
	C	45	419	175	13	162	39
	D	37	272	175	7	168	62
	E	47	177	175	1	174	98
	F	30	52	175	0	175	100
	G	25	88	175	0	175	100
	H	33	21	175	1	174	100
349	A	139	904	450	75	375	41
	B	108	517	450	16	434	84
	C	58	773	450	32	418	54
	D	63	528	450	10	440	83
	E	74	308	450	3	447	100
	F	49	163	450	2	448	100
	G	55	124	450	0	450	100
	H	17	50	450	1	449	100
412	A	15	132	30	4	26	20
	B	13	69	30	5	25	36
	C	12	115	30	4	26	23
	D	9	80	30	3	27	34
	E	10	51	30	3	27	53
	F	15	12	30	0	30	100
	G	12	28	30	1	29	100
	H	7	11	30	0	30	100
416	A	9	50	15	3	12	24
	B	7	36	15	2	13	36
	C	4	62	15	2	13	21
	D	5	50	15	0	15	30
	E	8	39	15	1	14	36
	F	6	10	15	0	15	100
	G	5	19	15	0	15	79
	H	1	9	15	0	15	100
417	A	28	180	45	10	35	19
	B	21	134	45	5	40	30
	C	24	209	45	5	40	19
	D	14	111	45	2	43	39
	E	23	79	45	0	45	57
	F	13	30	45	0	45	100
	G	14	36	45	2	43	100
	H	15	15	45	2	43	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
420	A	6	20	15	0	15	75
	B	3	8	15	0	15	100
	C	6	23	15	3	12	52
	D	2	7	15	0	15	100
	E	1	3	15	1	14	100
	F	1	0	15	0	15	100
	G	6	4	15	0	15	100
	H	1	1	15	0	15	100
421	A	5	4	7	0	7	100
	B	0	3	7	0	7	100
	C	0	7	7	0	7	100
	D	2	3	7	0	7	100
	E	0	0	7	0	7	100
	F	0	0	7	0	7	100
	G	0	0	7	0	7	100
	H	1	1	7	0	7	100
422	A	8	30	10	0	10	33
	B	9	17	10	2	8	47
	C	5	16	10	0	10	63
	D	5	13	10	0	10	77
	E	6	13	10	0	10	77
	F	5	2	10	0	10	100
	G	9	7	10	0	10	100
	H	2	3	10	0	10	100
423	A	2	3	5	0	5	100
	B	3	0	5	0	5	100
	C	1	0	5	0	5	100
	D	2	0	5	0	5	100
	E	0	0	5	0	5	100
	F	0	0	5	0	5	100
	G	0	0	5	0	5	100
	H	0	0	5	0	5	100
424	A	5	26	10	1	9	35
	B	2	10	10	0	10	100
	C	1	7	10	1	9	100
	D	3	8	10	0	10	100
	E	3	1	10	0	10	100
	F	1	4	10	0	10	100
	G	6	1	10	0	10	100
	H	2	0	10	0	10	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
425	A	24	191	60	12	48	25
	B	19	100	60	8	52	52
	C	22	272	60	5	55	20
	D	25	180	60	2	58	32
	E	26	67	60	1	59	88
	F	20	31	60	2	58	100
	G	18	38	60	0	60	100
	H	18	26	60	0	60	100
426	A	1	10	5	1	4	40
	B	0	4	5	1	4	100
	C	0	8	5	0	5	63
	D	0	2	5	0	5	100
	E	2	1	5	0	5	100
	F	1	1	5	0	5	100
	G	0	5	5	0	5	100
	H	0	0	5	0	5	100
427	A	2	20	10	2	8	40
	B	6	15	10	2	8	53
	C	3	25	10	1	9	36
	D	3	10	10	1	9	90
	E	3	13	10	3	7	54
	F	1	4	10	0	10	100
	G	3	6	10	0	10	100
	H	3	0	10	0	10	100
428	A	18	91	25	5	20	22
	B	15	45	25	2	23	51
	C	14	83	25	5	20	24
	D	10	44	25	6	19	43
	E	16	17	25	0	25	100
	F	6	17	25	1	24	100
	G	6	16	25	0	25	100
	H	7	7	25	0	25	100
431	A	4	31	10	0	10	32
	B	5	20	10	2	8	40
	C	6	27	10	4	6	22
	D	6	17	10	0	10	59
	E	2	5	10	0	10	100
	F	3	6	10	0	10	100
	G	3	9	10	0	10	100
	H	7	0	10	0	10	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
433	A	4	39	8	4	4	10
	B	4	45	8	2	6	13
	C	6	49	8	2	6	12
	D	7	27	8	0	8	30
	E	2	14	8	1	7	50
	F	5	10	8	1	7	70
	G	3	11	8	1	7	64
	H	2	5	8	0	8	100
440	A	31	191	75	15	60	31
	B	25	94	75	4	71	76
	C	32	168	75	2	73	43
	D	19	83	75	1	74	89
	E	26	46	75	0	75	100
	F	16	13	75	1	74	100
	G	16	24	75	5	70	100
	H	8	10	75	1	74	100
442	A	77	442	160	34	126	29
	B	62	320	160	22	138	43
	C	45	561	160	27	133	24
	D	46	299	160	17	143	48
	E	51	161	160	12	148	92
	F	45	52	160	2	158	100
	G	43	87	160	2	158	100
	H	45	31	160	6	154	100
443	A	34	146	85	17	68	47
	B	25	90	85	2	83	92
	C	29	150	85	7	78	52
	D	26	122	85	3	82	67
	E	31	47	85	1	84	100
	F	11	26	85	1	84	100
	G	15	26	85	0	85	100
	H	7	8	85	0	85	100
446	A	4	21	7	2	5	24
	B	5	4	7	2	5	100
	C	2	17	7	0	7	41
	D	2	16	7	0	7	44
	E	4	8	7	3	4	50
	F	2	10	7	1	6	60
	G	3	4	7	2	5	100
	H	0	3	7	1	6	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner ^a permits	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
447	A	2	22	10	1	9	41
	B	2	5	10	0	10	100
	C	1	21	10	0	10	48
	D	1	5	10	0	10	100
	E	0	7	10	0	10	100
	F	2	2	10	1	9	100
	G	3	3	10	0	10	100
	H	2	5	10	0	10	100
448	A	2	27	10	6	4	15
	B	5	21	10	2	8	38
	C	3	26	10	1	9	35
	D	3	25	10	0	10	40
	E	4	14	10	1	9	64
	F	2	6	10	0	10	100
	G	1	14	10	1	9	64
	H	5	4	10	4	6	100
449	A	3	40	10	3	7	18
	B	7	32	10	3	7	22
	C	4	44	10	2	8	18
	D	2	31	10	0	10	32
	E	5	19	10	0	10	53
	F	6	14	10	0	10	71
	G	4	17	10	3	7	41
	H	5	13	10	0	10	77
450	A	4	28	15	3	12	43
	B	4	8	15	2	13	100
	C	4	18	15	1	14	78
	D	2	18	15	0	15	83
	E	1	3	15	0	15	100
	F	1	3	15	0	15	100
	G	5	3	15	0	15	100
	H	4	6	15	0	15	100
451	A	8	30	15	1	14	47
	B	4	9	15	0	15	100
	C	1	24	15	0	15	63
	D	4	28	15	1	14	50
	E	8	11	15	0	15	100
	F	5	5	15	0	15	100
	G	2	8	15	0	15	100
	H	1	5	15	0	15	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner permits ^a	General lottery permits	Chance of general lottery applicant being drawn (%) ^b
454	A	2	21	5	2	3	14
	B	3	20	5	0	5	25
	C	2	14	5	1	4	29
	D	5	23	5	1	4	17
	E	1	7	5	0	5	71
	F	2	4	5	0	5	100
	G	1	7	5	0	5	71
	H	2	2	5	0	5	100
456	A	0	5	5	0	5	100
	B	2	3	5	0	5	100
	C	0	6	5	0	5	83
	D	2	5	5	0	5	100
	E	1	2	5	0	5	100
	F	0	1	5	0	5	100
	G	0	5	5	0	5	100
	H	0	1	5	0	5	100
457	A	4	30	10	3	7	23
	B	7	13	10	2	8	62
	C	8	22	10	1	9	41
	D	5	21	10	1	9	43
	E	2	5	10	0	10	100
	F	4	0	10	0	10	100
	G	5	4	10	0	10	100
	H	4	1	10	0	10	100
458	A	3	7	10	0	10	100
	B	1	1	10	0	10	100
	C	2	3	10	0	10	100
	D	2	7	10	0	10	100
	E	0	0	10	0	10	100
	F	1	2	10	0	10	100
	G	1	1	10	0	10	100
	H	0	0	10	0	10	100
459	A	9	77	25	3	22	29
	B	4	39	25	5	20	51
	C	4	68	25	4	21	31
	D	2	52	25	0	25	48
	E	5	21	25	1	24	100
	F	5	2	25	2	23	100
	G	1	17	25	1	24	100
	H	2	2	25	0	25	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner permits ^a	General lottery permits	Chance of general lottery applicant being drawn (%) ^b
461	A	57	315	110	21	89	28
	B	51	159	110	10	100	63
	C	44	270	110	10	100	37
	D	36	147	110	10	100	68
	E	47	105	110	2	108	100
	F	29	29	110	0	110	100
	G	37	34	110	3	107	100
	H	30	8	110	0	110	100
462	A	55	234	110	14	96	41
	B	48	145	110	6	104	72
	C	35	278	110	12	98	35
	D	36	176	110	1	109	62
	E	41	104	110	0	110	100
	F	16	26	110	0	110	100
	G	46	60	110	5	105	100
	H	30	13	110	0	110	100
463	A	9	70	25	4	21	30
	B	9	41	25	2	23	56
	C	12	56	25	5	20	36
	D	7	55	25	0	25	45
	E	7	23	25	0	25	100
	F	8	6	25	0	25	100
	G	12	6	25	0	25	100
	H	7	7	25	0	25	100
464	A	14	73	35	4	31	42
	B	9	44	35	1	34	77
	C	12	70	35	0	35	50
	D	8	48	35	0	35	73
	E	16	18	35	0	35	100
	F	10	0	35	0	35	100
	G	5	8	35	0	35	100
	H	9	3	35	0	35	100
465	A	21	84	40	1	39	46
	B	14	33	40	0	40	100
	C	13	41	40	0	40	98
	D	10	47	40	0	40	85
	E	15	25	40	0	40	100
	F	6	1	40	0	40	100
	G	7	3	40	0	40	100
	H	1	2	40	0	40	100

Appendix A. Continued

Permit area	Time period	Registered harvest	Applicants	Permits available	Landowner permits ^a	General lottery permits	Chance of general lottery applicant ^b being drawn (%)
466	A	25	176	80	9	71	40
	B	22	81	80	7	73	90
	C	18	161	80	2	78	48
	D	15	78	80	0	80	100
	E	22	43	80	1	79	100
	F	12	7	80	4	76	100
	G	25	13	80	5	75	100
	H	10	2	80	0	80	100
467	A	17	140	50	11	39	28
	B	21	79	50	5	45	57
	C	21	132	50	8	42	32
	D	17	82	50	4	46	56
	E	18	44	50	0	50	100
	F	14	20	50	1	49	100
	G	17	32	50	1	49	100
	H	21	16	50	3	47	100
601	A	40	422	105	7	98	23
	B	33	224	105	7	98	44
	C	30	302	105	3	102	34
	D	33	192	105	1	104	54
	E	37	93	105	1	104	100
	F	23	29	105	0	105	100
	G	57	77	105	2	103	100
	H	44	16	105	1	104	100

^a Landowners are allotted 20% of the total permits available for each permit area and time period, if there are less than 20% landowner applicants remaining permits are made available in the general lottery.

^b Chance of general lottery applicant being drawn assumes no hunter preference

2008 MINNESOTA SPRING TURKEY HUNTER SURVEY REPORT

Eric Dunton, Farmland Wildlife Populations and Research Group

INTRODUCTION

Since Minnesota's first modern hunting season in 1978, the demand for spring turkey hunting permits has exceeded the supply available. For the 2008 spring turkey season there were 51,000 applicants for almost 38,000 available permits in 73 permit areas (PAs) and 8 time periods (MNDNR 2008). The Minnesota Department of Natural Resources (MNDNR) allocates permits for the spring turkey hunting season with a permit area quota system which attempts to issue the optimum number of permits to satisfy demand for hunting while maintaining sustainable turkey populations and quality of hunting (Kimmel 2001, MNDNR 2007). The system is designed to distribute hunters across space (i.e., PAs) and time (i.e., time period), and attempts to control harvest and hunter satisfaction.

Three types of hunting licenses were available to hunters: (1) general lottery permit in which an applicant or a party of up to 4 hunters applied for a specific PA and time period (they also had the option to apply for a second choice area and time period); (2) landowner permit in which up to 20 percent of permits for each PA and time period were reserved for landowners or tenants who lived on 40 acres or more of land within the PA, and (3) archery permit which could be purchased for the last 2 time periods of any PA with 50 or more permits per period. Licenses were made available based on a system of preference which was determined by the number of years applicants submitted a valid but unsuccessful application since last receiving a license. Hunters who applied in the lottery but were unsuccessful were offered surplus permits in under-subscribed permit areas and time periods. If available, surplus permits could be purchased on a first-come, first-served basis. Successful applicants were allowed to harvest 1 bearded turkey during the spring season.

The objectives of this survey were to estimate hunter satisfaction and factors such as interference rates between hunters and relative ease of access to hunting land that may influence hunter satisfaction.

METHODS

Spring turkey hunters were surveyed by mail following the 4th time period of the 2008 spring season. Twenty-three PAs were surveyed based on PA boundary changes or length of time since previous survey. Hunters that possessed a general lottery, landowner, or surplus permit were randomly selected from the Electronic Licensing System (ELS) database of Spring 2008 turkey hunt license purchasers. Hunter samples were drawn only from the first 4 time periods (i.e., April 16 – May 5 2008).

RESULTS

After 3 mailings almost 80% of hunters responded and 98% indicated that they hunted during the 2008 season (Table 1). Hunters were evenly distributed across all 4 surveyed time periods and the majority (85%) possessed a general lottery permit (Table 2). Hunters averaged almost 3 days of turkey hunting per time period and the most common hunting method was firearm (91%; Table 3). Most hunters (75%) hunted private land exclusively and 83% reported accessibility to hunting land as "very easy" or "somewhat easy" (Table 4). Over 30% of the private land hunters owned the land or were a tenant of the land they hunted (Table 5). Over 60% of hunters who hunted private land reported being denied access almost 2 occasions/hunter (Table 5). Less than 10% of hunters reported interference but interference rate varied by the type of land hunted. Interference was reported by 17% of respondents that hunted both public and private land, 16% of respondents that hunted only public lands, and < 1% of respondents that hunted only private land. Overall hunt quality was 7.2 on a 10-point scale (10 = excellent, 0 = poor) and ranged from 5.3 (PA 224) to 8.9 (PA 262; Table 7).

DISCUSSION

Only hunters from the first 4 time periods were surveyed because most turkey hunters prefer to hunt during those time periods (e.g., 1,678 more permits issued for time periods A - D) and we expected higher interference rates and greater difficulty gaining access to hunting lands would occur during those time periods.

Interference rates estimated from this survey are used to adjust spring hunting permit allocations for each PA. Interference rates between 15-20% are considered acceptable; whereas IR > 20% reflect a need to reduce permit numbers and IR < 15% reflect an opportunity to increase the number of permits (Kimmel 2001).

Minnesota's harvest management strategy is to maximize the amount of turkey hunting across each permit area while providing a safe quality hunting experience. The factors most often cited as contributing to a quality hunt include ease of access to hunting lands, feeling of safety, proper distribution of hunters (i.e., lack of interference from other hunters), observing turkeys while hunting, having the opportunity to get a shot, and success in harvesting a turkey (Smith et al. 1992, Dingman 2003). Success is the most often cited factor influencing a quality hunting experience (Stankey et al. 1973, Hende 1974, Dingman 2003). Based on the results from this survey, hunters in the surveyed permit areas generally are experiencing a quality hunt, which is characterized generally by high success, low interference, and accessibility to hunting land.

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Table 1. Spring turkey permits available and issued, hunters surveyed, response rate, and respondents who hunted by permit area for the 2008 spring turkey season, Minnesota.

Permit area	Permits ^a		Hunters surveyed	Surveys returned		Respondents that hunted	
	Available	Issued ^b		n	Percent (%)	n	Percent (%)
152	20	19	19	17	89	17	100
156	20	18	18	15	83	15	100
183	20	21	20	15	75	15	100
214	140	124	120	97	81	96	99
215	340	312	211	167	79	165	99
219	220	207	165	131	79	129	98
223	360	336	219	177	81	174	98
229	160	138	133	100	75	99	99
241	60	54	54	48	89	47	98
243	40	38	38	27	71	27	100
262	28	25	25	16	64	16	100
412	120	115	108	84	78	82	98
421	28	25	25	19	76	18	95
423	20	22	20	16	80	16	100
424	40	41	40	29	73	29	100
426	20	19	18	14	78	13	93
427	40	31	31	24	77	22	92
431	40	39	39	28	72	28	100
433	32	32	32	30	94	30	100
449	40	39	39	33	85	33	100
454	20	19	19	18	95	18	100
467	200	193	155	110	71	107	97
601	420	381	236	188	80	183	97
Total	2428	2248	1784	1403	79	1379	98

^a Permits available and issued represent time periods A – D

^b Permits issued can be greater than permits available because hunters have the option to apply as groups (up to 4 hunters) if successfully drawn the group will be awarded permits even if greater than permits available

Table 2. Time period hunted and permit type by permit area for the 2008 spring turkey season, Minnesota.

Permit area	Time period ^a				Permit type				
	n	A	B	C	D	n	General lottery	Landowner	Surplus
152	17	4	4	4	5	17	14	0	3
156	15	3	4	3	5	15	12	3	0
183	15	3	4	4	4	15	13	2	0
214	96	28	25	22	21	97	83	14	0
215	165	53	42	31	39	167	142	24	1
219	129	35	33	33	28	131	123	7	1
223	174	47	42	46	39	177	158	16	3
229	99	27	22	23	27	100	94	4	2
241	47	15	13	9	10	48	37	11	0
243	27	5	8	5	9	27	23	4	0
262	16	4	4	4	4	16	11	0	5
412	82	19	28	20	15	84	69	15	0
421	18	6	5	4	3	19	12	0	7
423	16	6	4	4	2	16	5	1	10
424	29	6	8	9	6	29	22	2	5
426	13	3	3	4	3	14	10	2	2
427	22	7	7	5	3	23	18	5	0
431	28	6	6	6	10	28	23	5	0
433	30	6	10	7	7	30	21	9	0
449	33	9	9	8	7	33	27	6	0
454	18	5	5	5	3	19	14	5	0
467	107	25	24	29	29	110	91	14	5
601	182	55	43	42	42	188	167	21	0
Total	1378	377	353	327	321	1403	1189	170	44

^a A = 16 – 20 April, B = 21 – 25 April, C = 26 – 30 April, D = 1 – 5 May

Table 3. Hunter effort and hunting method by permit area for the 2008 spring turkey season, Minnesota.

Permit area	Hunting effort			Hunting method			
	n	Number of days hunted	Average number of days hunted	n	Firearm	Archery	Archery & firearm
152	15	36	2.4	17	17	0	0
156	12	36	3.0	15	14	1	0
183	15	41	2.7	15	13	1	1
214	90	231	2.6	96	91	2	3
215	150	438	2.9	165	158	2	5
219	121	367	3.0	129	120	4	5
223	155	420	2.7	174	165	5	4
229	87	263	3.0	99	80	8	11
241	45	106	2.4	47	44	1	2
243	25	69	2.8	26	24	1	1
262	14	32	2.3	16	12	3	1
412	79	214	2.7	82	75	4	3
421	17	40	2.4	18	18	0	0
423	14	41	2.9	16	15	0	1
424	27	84	3.1	29	29	0	0
426	11	34	3.1	13	13	0	0
427	21	59	2.8	22	21	1	0
431	23	63	2.7	28	25	1	2
433	28	72	2.6	30	29	1	0
449	30	83	2.8	33	29	2	2
454	18	44	2.4	18	16	1	1
467	100	254	2.5	106	99	4	3
601	164	476	2.9	182	151	17	14
Total	1261	3503	2.8	1376	1258	59	59

Table 4. Type of land hunted and accessibility to hunting lands by permits area for the 2008 spring turkey season, Minnesota.

Permit area	Type of land hunted				Accessibility to hunting land				
	n	Public	Private	Both	n	Very easy	Somewhat easy	Somewhat difficult	Very difficult
152	17	16	0	1	17	8	8	1	0
156	15	0	9	6	15	7	5	3	0
183	15	1	9	5	15	10	3	2	0
214	96	2	85	9	94	66	24	3	1
215	165	3	143	19	163	77	68	17	1
219	129	5	99	25	129	58	52	16	3
223	174	38	112	24	172	62	74	32	4
229	99	2	84	13	99	33	37	26	3
241	47	0	45	2	47	34	11	2	0
243	27	2	22	3	27	12	11	4	0
262	16	0	13	3	16	5	10	1	0
412	82	6	55	21	81	43	23	13	2
421	18	2	12	4	18	6	7	2	3
423	16	5	7	4	16	1	9	4	2
424	29	4	16	9	28	12	10	6	0
426	13	2	4	7	13	6	5	2	0
427	22	2	16	4	22	8	11	2	1
431	28	2	14	12	28	9	16	2	1
433	30	2	18	10	30	14	13	3	0
449	33	9	14	10	33	12	18	3	0
454	18	0	14	4	18	5	11	2	0
467	107	5	84	18	107	45	41	20	1
601	182	9	165	8	181	66	71	36	8
Total	1378	117	1040	221	1369	599	538	202	30

Table 5. Type of land hunted, ownership of land, and number of times denied access to private land by permit area for the 2008 spring turkey season, Minnesota.

Permit area	Type of land hunted			Landowner or tenant of land hunted	n	Number of times denied access to private land	Average number of times denied access to private land
	n	Public	Private				
152	17	16	0	1	0	1	0
156	15	0	9	6	4	12	1.0
183	15	1	9	5	8	11	4
214	96	2	85	9	45	72	33
215	165	3	143	19	48	145	74
219	129	5	99	25	29	115	45
223	174	38	112	24	26	125	78
229	99	2	84	13	18	15	58
241	47	0	45	2	24	34	4
243	27	2	22	3	11	20	5
262	16	0	13	3	2	15	10
412	82	6	55	21	27	68	35
421	18	2	12	4	2	15	6
423	16	5	7	4	1	10	5
424	29	4	16	9	8	23	16
426	13	2	4	7	2	10	7
427	22	2	16	4	5	19	19
431	28	2	14	12	8	24	3
433	30	2	18	10	11	24	4
449	33	9	14	10	7	20	7
454	18	0	14	4	1	18	18
467	107	5	84	18	18	17	17
601	182	9	165	8	34	157	128
Total	1378	117	1040	221	339	970	588

Table 6. Hunters and day's interference experienced, interference rate (i.e., hunters that experienced interference/number of respondents), and type of land where interference occurred by permit area for the 2008 spring turkey season, Minnesota.

Permit area	n	Hunters that experienced interference	Days interference experienced	Interference rate (IR)	95% ^a CL	Type of land where interference occurred		
						Public	Private	Both
152	17	2	3	0.12	0.17	1	0	1
156	15	0	0	0	0	0	0	0
183	15	0	0	0	0	0	0	0
214	95	2	3	0.02	0.03	0	0	2
215	165	12	18	0.07	0.04	4	5	3
219	131	14	18	0.11	0.05	1	5	8
223	172	23	32	0.13	0.05	8	12	3
229	99	16	34	0.16	0.07	1	8	7
241	47	0	0	0	0	0	0	0
243	27	1	1	0.04	0.08	1	0	0
262	16	1	2	0.06	0.13	0	1	0
412	82	9	16	0.11	0.07	0	3	6
421	18	0	0	0	0	0	0	0
423	16	4	4	0.25	0.24	0	3	1
424	29	2	5	0.07	0.1	0	1	1
426	13	0	0	0	0	0	0	0
427	22	2	4	0.09	0.13	0	2	0
431	28	2	2	0.07	0.1	1	1	0
433	30	2	3	0.07	0.09	0	1	1
449	33	2	2	0.06	0.09	0	2	0
454	18	2	3	0.11	0.16	0	2	0
467	106	10	14	0.09	0.06	0	6	4
601	179	23	30	0.13	0.05	2	20	1
Total	1373	129	194	0.09	0.01	19	72	38

^a 95% confidence level of interference rate

Table 7. Hunt quality and factors most commonly associated with hunt quality by permit area for the 2008 spring turkey season, Minnesota.

Permit area	Harvest ^a	Success (%) ^a	Interference rate (IR)	Ease of access to hunting land (%) ^b	n	Hunt quality ^c
152	7	36.8	0.12	94.1	17	7.3
156	12	66.7	0.00	80.0	15	7.7
183	4	20.0	0.00	86.7	15	7.0
214	61	49.2	0.02	95.7	96	7.1
215	151	48.4	0.07	89.0	165	7.4
219	87	42.0	0.11	85.3	129	7.3
223	164	48.8	0.13	79.1	172	7.5
229	43	31.2	0.16	70.7	99	6.8
241	26	48.1	0.00	95.7	47	7.4
243	14	36.8	0.04	85.2	27	7.3
262	18	72.0	0.06	93.8	16	8.9
412	49	42.6	0.11	81.5	82	7.3
421	7	28.0	0.00	72.2	18	6.3
423	8	36.4	0.25	62.5	16	6.1
424	11	26.8	0.07	78.6	29	5.3
426	1	5.3	0.00	84.6	13	6.3
427	14	45.2	0.09	86.4	22	7.0
431	21	53.8	0.07	89.3	28	7.3
433	21	65.6	0.07	90.0	30	8.0
449	16	41.0	0.06	90.9	33	7.2
454	12	63.2	0.11	88.9	18	7.4
467	76	39.4	0.09	80.4	107	7.2
601	136	35.7	0.13	75.7	182	7.1
Total	972	43.2	0.09	83.1	1376	7.2

^a 2008 harvest and hunter success represent time periods A – D only and do not reflect overall harvest and success for permit areas

^b Ease of access to hunting land calculated by combining hunters that reported accessibility to hunting land as “Very easy” or “Somewhat easy.”

^c Quality was rated from 0-10 with 0 representing poor quality and 10 representing excellent quality

PRAIRIE-CHICKEN HARVEST IN MINNESOTA DURING 2007

Michael A. Larson, Forest Wildlife Populations and Research Group

INTRODUCTION

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. Permits were awarded through a lottery system, and each hunter could harvest a maximum of 2 prairie-chickens. The same format was implemented for prairie-chicken hunting seasons during 2004 and 2005. The number of permit areas was increased to 11 in 2006 (Figure 1). The objective of this report is to document results of the 2007 prairie chicken season.

METHODS

This report summarizes prairie-chicken hunting season information from the Electronic Licensing System (ELS), where all permit applications, lottery results, and harvest registrations are recorded. All successful hunters are required to register their prairie-chicken(s) at an ELS registration station. Relying on ELS registration data requires one to assume that all harvested prairie-chickens were registered and were registered as being harvested in the correct permit area. As advised by the Prairie Chicken Committee, I did not conduct a post-season hunter survey because there were no changes to the season this year and results of the hunter survey were fairly consistent among years from 2003 to 2006.

RESULTS & DISCUSSION

One hundred eighty-two prairie-chicken hunting permits were available during 2007. There were 187 lottery winners because if the last applicant selected for a permit area had applied as a member of a party, permits were awarded to all members of the party (Table 1). Of the 150 hunters who purchased a permit, 79 (53%) bagged at least 1 prairie-chicken (Table 2). Hunters registered 122 prairie-chickens during 2007, which may have been the greatest annual harvest since the modern seasons began in 2003 (Table 3). During 2003 115 prairie-chickens were registered in ELS, but hunters reported during the post-season survey that 129 prairie-chickens were killed and retrieved. The number of applicants has been similar during the last 3 years; hunter success rates and total harvest have been more variable (Table 3).

Table 1. Results of the lottery for prairie-chicken hunting permits in Minnesota during 2007.

Permit type	Permit area	No. of applicants	Lottery winners	
			Number	Proportion
Regular	801A	4	4	1.00
	802A	11	11	1.00
	803A	10	10	1.00
	804A	15	15	1.00
	805A	74	17	0.23
	806A	61	15	0.25
	807A	62	22	0.35
	808A	31	16	0.52
	809A	53	17	0.32
	810A	115	25	0.22
	811A	60	15	0.25
	All	496	167	0.34
Landowner	801A	0	0	
	802A	0	0	
	803A	1	1	1.00
	804A	1	1	1.00
	805A	4	4	1.00
	806A	6	3	0.50
	807A	3	3	1.00
	808A	2	2	1.00
	809A	4	4	1.00
	810A	1	1	1.00
	811A	1	1	1.00
All	23	20	0.87	
Both	All	519	187	0.36

Table 2. Hunter harvest of prairie-chickens in Minnesota during 2007.

Permit area	No. of hunters ^a	Success rate ^b	Birds registered	Birds per harvester ^c
801A	1	0.00	0	0.0
802A	9	0.78	12	1.7
803A	9	0.67	9	1.5
804A	11	0.64	8	1.1
805A	20	0.60	19	1.6
806A	16	0.75	18	1.5
807A	18	0.28	9	1.8
808A	13	0.77	14	1.4
809A	19	0.37	13	1.9
810A	21	0.52	17	1.5
811A	13	0.15	3	1.5
All	150	0.53	122	1.5

^a Number of people who purchased a permit.

^b Proportion of hunters who registered at least 1 prairie-chicken.

^c Mean number of prairie-chickens registered per successful hunter.

Table 3. Annual summary of prairie-chicken hunting results in Minnesota during 2003–2007.

Year	Permits available	Applicants	Harvest	Success rate ^a
2003	100	853	115	0.68
2004	101	759	51	0.37
2005	110	500	90	0.58
2006	182	512	92	0.40
2007	187	519	122	0.53

^a Proportion of hunters who registered at least 1 prairie-chicken.

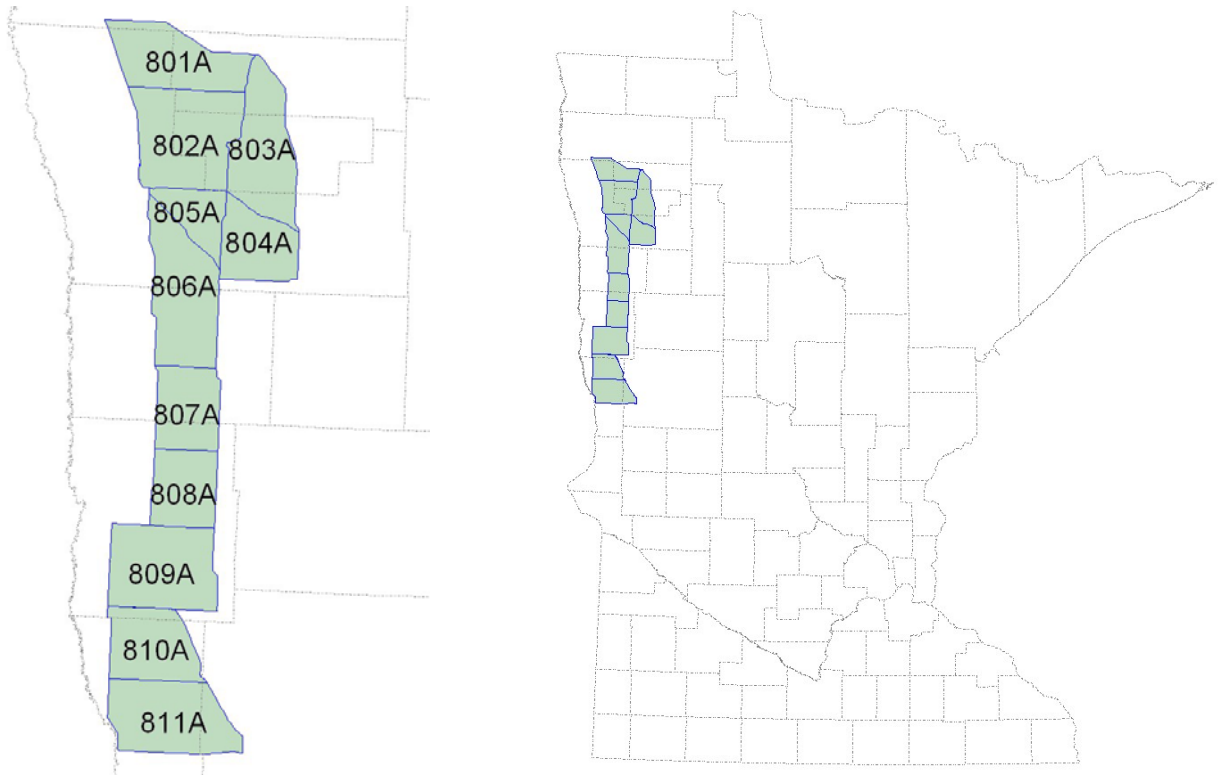


Figure 1. Map of permit areas for prairie-chicken hunting in Minnesota (left) and their location relative to counties within the state (right).

2007 MINNESOTA BEAR HARVEST REPORT

David Garshelis and Karen Noyce, Forest Wildlife and Populations Research Group

INTRODUCTION

In 1982, out of concern that the Minnesota bear population was being over-harvested, a quota on hunting licenses was implemented. 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). In recent years, hunters in this area could harvest two bears, and beginning in 2005 hunters could purchase both a quota and no-quota license. In all areas, hunters may purchase licenses either before or during the bear season, and in all areas the season runs from September 1 through mid-October. About 80% of hunters use bait. This report summarizes status and trends in harvests and population structure.

METHODS

Successful hunters must register their bears at designated registration stations. Harvest data are a simple tally of these registrations, which for the most part are done electronically. Hunters also were required to submit a tooth from harvested bears (compliance \approx 70%), which is used to estimate age. DNR and other field personnel made qualitative assessments of bear food abundance, which has a large impact on hunting success.

RESULTS

The number of permits available to hunters steadily increased through the 1980s and 1990s (Table 1) in response to increasing bear numbers and nuisance complaints. Permit availability was capped at just over 20,000 during 1999–2003. However, from 2000 to 2003, the proportion of permittees who bought licenses sharply declined, from $>80\%$ to near 60%. This resulted in 7 of 11 BMUs being undersubscribed by 2003. Permits were reduced each year from 2003 to 2007 (Table 2) in accordance with the diminishing level of interest and hunter complaints of overcrowding in some BMUs. By 2007, only 3 BMUs remained undersubscribed (Table 3).

Harvests, while variable due to natural food abundance, showed no trend over the past 10 years, averaging \sim 3500 bears, with hunting success averaging 25%. Harvests during the past 5 years have been remarkably similar (3200–3600; Table 1). In 2007, none of the BMUs had a record high or low harvest; 6 were above and 5 below the mean harvests of the past 5 years. Within the no-quota zone (see Figure 1), BMU 11, in northwestern Minnesota, had the second highest harvest for this area, while BMU 52, along the southeastern corner of the range, had a modest harvest (Table 4). Harvest sex ratios in 2007, uncorrected for misreporting (Table 1, footnote e), averaged 57% male, equaling the average for the past 10 years; sex ratios varied little among BMUs (Table 4). Hunting success ranged from 14% in the BWCAW, where unattended baiting is not allowed, to $\geq 35\%$ in 3 BMUs (12, 26, 41; Table 5). As typical of a year with fairly average fall food conditions (higher than normal hazelnut but lower than normal acorns), $\sim 70\%$ of the harvest occurred during the first week of the season (Table 6).

Two key factors, fall food abundance and hunter numbers, explain 88% of the variation in the number of bears killed each year (Figure 2). However, for the past 6 years, this regression model predicted slightly higher harvests than actually occurred, suggesting that bears are somewhat harder to harvest now than they were during the 1990s, when the population was growing. A diminishing median age among harvested females, reflecting an increasing proportion of harvested 1–2 year-olds (Figures 3 & 4), indicate changes in the composition of the living population, and possibly a downturn in population size.

DISCUSSION

Interest in hunting bears seems to have waned as permit availability peaked, corresponding with complaints by hunters of overcrowding and thus less hunting enjoyment. Another contributing factor in lower license sales may have been the availability of electronic licenses, enabling hunters to delay purchase until they assessed bear visitation to their baits and hence probable hunting success.

Harvests, however, have remained consistently high, and nuisance complaints have been low. While this has appearances of an ideal management situation, the declining harvest age structure (along with high harvests of radio-collared bears) suggests that bear numbers may be declining. Continued monitoring of this population and the factors impacting it are hence warranted.

Table 1. Bear permits, licenses, hunters, harvests, and success rates, 1987–2007.

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Permit applications	19687	25879	24096	24861	25890	26428	27365	30127	29922	30405	27353	30245	29384	29275	26824	21886	16431	16466	16153	15725	16345
Permits available	4810	5310	5520	6370	7140	7920	8630	9400	11950	12030	11370	18210	20840	20710	20710	20610	20110	16450	15950	14850	13200
Licenses purchased (total)	6054	5643	5901	7094	7757	8485	9224	9826	12448	12414	11440	16737	18355	19304	16510	14639	14409	13669	13199	13164	11936
Quota area ^a	4213	4297	4628	5568	6257	6845	7528	8125	10304	10592	9655	14941	16563	17021	13632	12350	9833	10063	9340	9169	8905
Quota surplus/military ^a															235	209	2554	1356	1591	1561	526
No-quota area ^a	1841	1346	1273	1526	1500	1640	1696	1701	2144	1822	1785	1796	1792	2283	2643	2080	2022	2238	2268	2434	2505
% Licenses bought ^b																					
Of permits available ^b	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	68.5	72.3	71.4
Of permits issued ^b												84.4	87.2	83.9	69.8	66.3	65.7	68.3	67.1	68.9	70.0
Estimated no. hunters ^c	5600	5100	5500	6600	7200	7900	8600	9100	11600	11500	10300	14500	15900	16800	15500	13700	13500	12800	12400	12400	11200
Harvest	1577	1509	1930	2381	2143	3175	3003	2329	4956	1874	3212	4110	3620	3898	4936	1915	3598	3391	3340 ^d	3290 ^d	3172
Harvest sex ratio (%M) ^e	60	58	57	52	59	50	56	62	47	62	55	55	53	58	56	61	58	57	59	58	57
Success rate (%) ^f																					
Total harvest/hunters	28	30	35	36	30	40	35	26	43	16	31	28	23	23	29	14	26	26	26	26	28
Quota harvest/licenses	33	28	36	35	30	41	34	26	42	15	29	25	20	20	28	14	25	26	25	25	28

^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 Harvest estimated from tallied registration + lost registration data (ascertained from tooth envelopes received without matching registration data)..

^e 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.

^f Success rates in 2001–2007 were calculated as number of successful hunters/total hunters, rather than bears killed/total hunters, because hunters could take 2 bears. In 2007, 63 hunters took more than 1 bear (59 took 2 bears on NQ license, 1 hunter took 1 quota and 1 NQ bear, and 3 hunters took 2 bears on a quota license [illegally]); thus, there were 3172-63 = 3109 successful hunters/11200 total hunters = 28% success.

Figure. 1. Bear management units (BMUs) within quota (white) and no-quota (gray) zones. Hunters in the quota zone are restricted to a single BMU, whereas no-quota hunters can hunt anywhere within that zone.

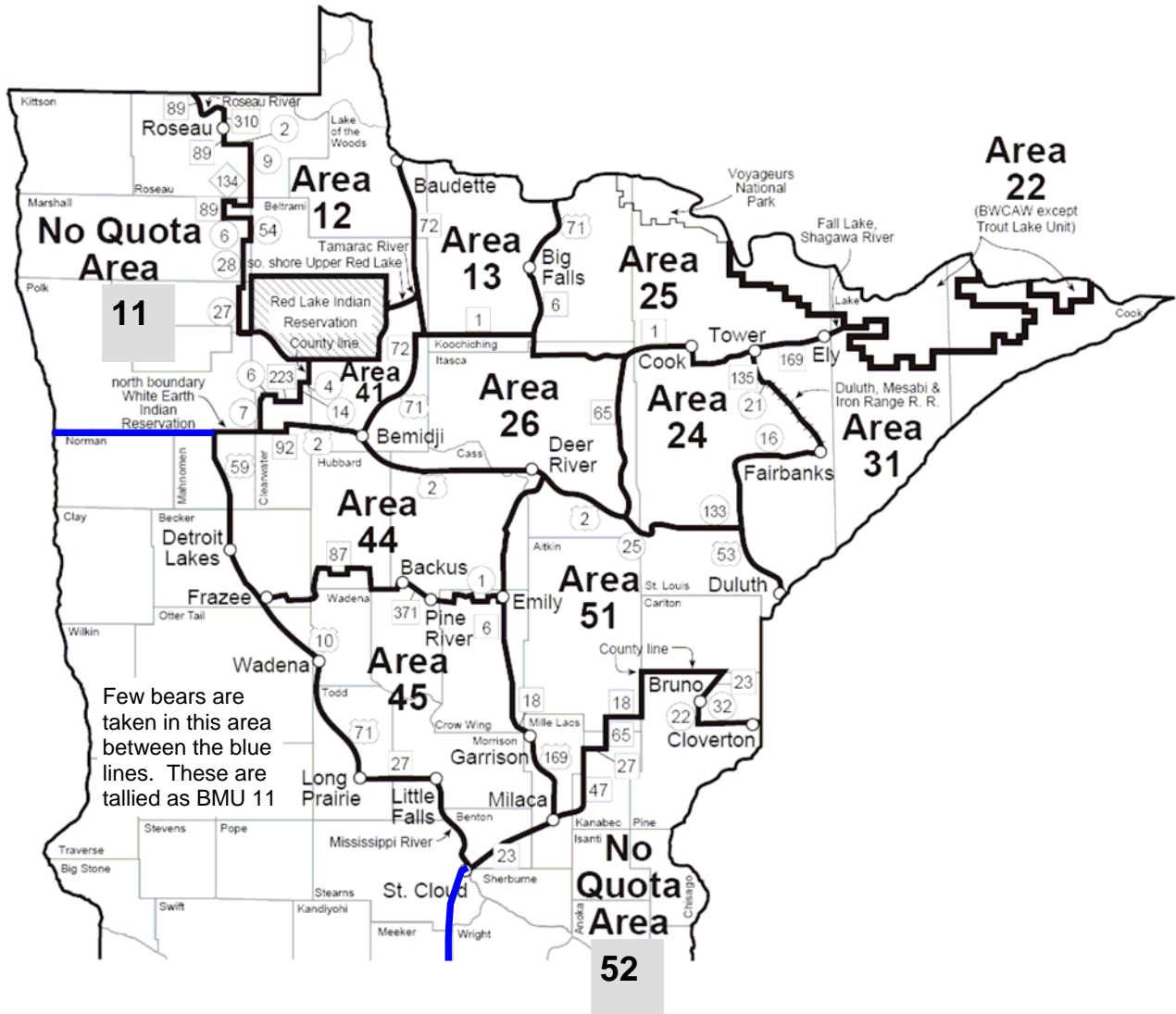


Table 2. Number of bear hunting permits available per year, 2003–2007 (aligned with permit applications in Table 3 below; highlighted numbers show drop from previous year).

BMU	2007	2006	2005	2004	2003
12	500	550	550	700	700
13	700	800	900	900	1100
22	150	150	150	150	250
24	900	1000	1200	1200	1500
25	1700	1900	1900	1900	2400
26	1250	1500	1500	1500	1500
31	1900	2100	2100	2100	2660
41	400	450	450	500	500
44	1500	1700	1700	2000	2500
45	1200	1200	1500	1500	2000
51	3000	3500	4000	4000	5000
Total	13200	14850	15950	16450	20110

Table 3. Number of bear hunting license applicants, and number and percent of available surplus licenses bought, 2003–2007^a.

BMU	2007		2006		2005		2004		2003	
	Apps	Surplus bought	Apps	Surplus bought	Apps	Surplus bought	Apps	Surplus bought	Apps	Surplus bought
12	811		1005		864		808		837	
13	745		680	120 100%	714	186 100%	670	129 56%	668	167 39%
22	87	51 81%	92	58 100%	65	46 54%	73	47 61%	88	26 16%
24	742	159 100%	624	367 98%	749	270 60%	766	259 60%	756	193 26%
25	1799		1789	112 100%	1923		1793	111 100%	1716	317 46%
26	2028		1915		1997		2110		2280	
31	2383		2290		2097	4 100%	2006	92 100%	1996	412 62%
41	577		683		653		601		688	
44	2669		2838		2884		2934		2855	
45	936	266 100%	840	360 100%	927	346 60%	1092	332 81%	1069	461 50%
51	3568		2969	531 100%	3276	726 100%	3613	386 100%	3467	978 64%
Total	16345	476 98%	15725	1548 ~100%	16149	1578 78%	16466	1356 78%	16431	2554 50%

^a Surplus licenses available beginning in 2001.

Undersubscribed

Table 4. Minnesota bear harvest tally^a for 2007 by Bear Management Unit (BMU) and sex compared to harvests during 2002-2006 and record high harvests.

BMU	2007			2006	2005	2004	2003	2002	5 year mean	Record high harvest (yr)	
	M (%M)	F	Total								
Quota											
12	71 (57)	53	124	70	165	165	174	104	136	263 (01)	
13	93 (57)	70	163	151	205	197	185	116	171	258 (95)	
22	5 (33)	10 ^b	15	15	8	10	3	7	9	41 (89)	
24	75 (56)	59	134	194	144	212	163	101	163	288 (95)	
25	201 (54)	168	369	421	404	546	510	328	442	584 (01)	
26	167 (53)	148	315	314	285	320	303	171	279	513 (95)	
31	229 (58)	169	398	482	445	484	436	301	430	697 (01)	
41	55 (53)	49	104	40	104	83	100	51	76	201 (01)	
44	191 (57)	142	333	192	273	283	444	183	275	643 (95)	
45	59 (52)	54	113	118	107	118	143	36	104	178 (01)	
51	314 (56)	243	557	721	505	544	667	300	547	895 (01)	
Total	1460 (56)	1165	2625	2718	2759 ^c	2962	3128	1698	2653	4288 (01)	
No Quota ^d											
11	195 (60)	133	328 ^c	120	335	177	200	112	189	351 (05)	
52	139 (63)	80	219	400	223	252	270	105	250	400 (06)	
Total	334 (61)	213	547	520	581 ^c	429	470	217	443	678 (95)	
State	1794 (57)	1378	3172	3290 ^c	3340 ^c	3391	3598	1915	3107	4956 (95)	

^a Harvest data were obtained from registration slips electronic registration, and tooth envelopes. All data for 2007 was e-registration. The following table shows the number of tooth envelopes that had no corresponding registration slip or e-registration (these were added to the harvest tally).

Year	Quota area	No-quota area
2002	46	7
2003	84	13
2004	96	39
2005	179	31
2006	63	15
2007	27	9

^b Second consecutive year with an unusually high harvest of females in this BMU (BWCAW).

^c The estimated registered harvest, including those in which registration data were lost and no tooth envelope was received. Values for 2006 do not match column total because other data on table are uncorrected for estimated lost registration data.

^d Some hunters with no-quota licenses hunted in the quota area, and their kills were assigned to the BMU where they hunted ($n= 28$ in 2006, 27 in 2007). Some quota area hunters also apparently hunted in the wrong BMU, based on the block where they said they killed a bear ($n= 20$ in 2006, 85 in 2007). However, some of these blocks may have been read wrong from the map, so all these were recorded in the BMU where they were assigned, not the BMU of the indicated harvest block.

^e Second highest harvest for this area. Third highest was 321 bears in 2001.

Table 5. Bear hunting success (%) by BMU, measured as the registered harvest (excluding second bear) divided by the number of licenses sold^a, 2002–2007.

BMU	Mean success 2002-2006	2007		2006		2005 ^b		2004		2003		2002	
		% Success	% Taking 2 bears ^c	% Success	% Taking 2 bears ^c	% Success	% Taking 2 bears ^c	% Success	% Taking 2 bears ^c	% Success	% Taking 2 bears ^c	% Success	% Taking 2 bears ^c
Quota	23	28	25	25	25	26	25	14					
12	30	36	19	41	33	35	22						
13	28	31	24	32	33	31	19						
22	9	14	14	10	11	4	8						
24	22	20	25	20	27	25	15						
25	31	31	30	30	38	34	23						
26	28	36	30	34	31	29	17						
31	28	28	33	31	33	25	17						
41	22	35	13	31	23	29	14						
44	19	30	16	24	20	26	9						
45	11	14	14	13	12	13	4						
51	19	27	28	18	19	21	9						
No Quota	19	19	(11)	22	(9)	23	(9)	18	(7)	21	(10)	10	(7)
Statewide	23	26	25	25	25	25	13						

^a Harvest/licenses instead of harvest/hunters because BMU-year-specific estimates for the rate of hunting by licensed hunters are unreliable. Statewide estimates of harvest/hunters are presented in Table 1.

^b For 2005, estimated registered harvest was used instead of known registered harvest due to a large loss of registration data.

^c 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 only in the no-quota area in 2002–2007.

Table 6. Cumulative bear harvest (% of total harvest) by date, 1990–2007.

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
2005	Thu		72	81	94
2006	Fri		69	83	96
2007	Sat		69	82	96

^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 2. Number of bears killed vs. number predicted, based on fall food abundance and hunter numbers. Prediction for 2007 based on regression from 1984–2006 ($R^2 = 0.88$).

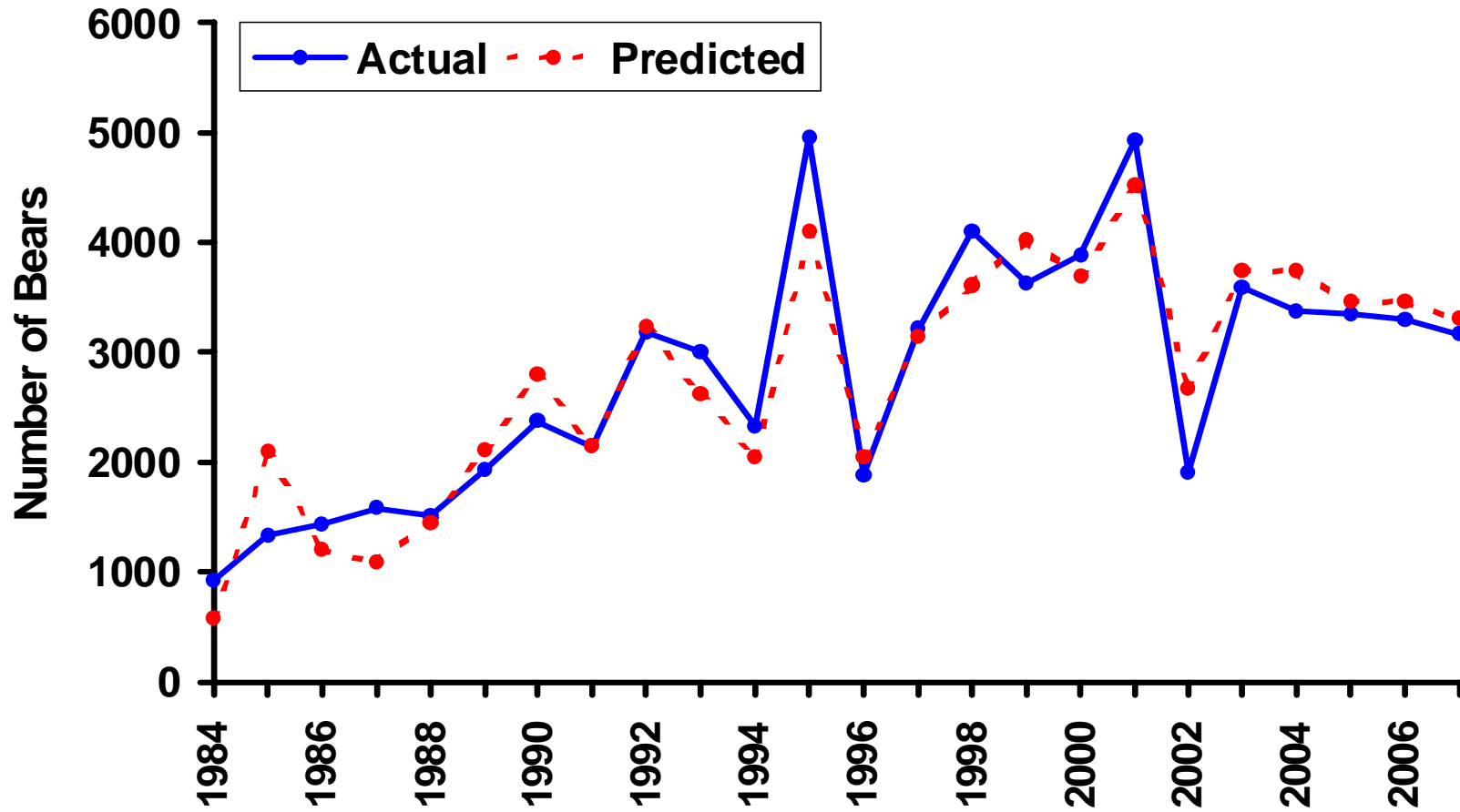


Figure 3. Statewide harvest age structure: median ages by sex, 1982–2007

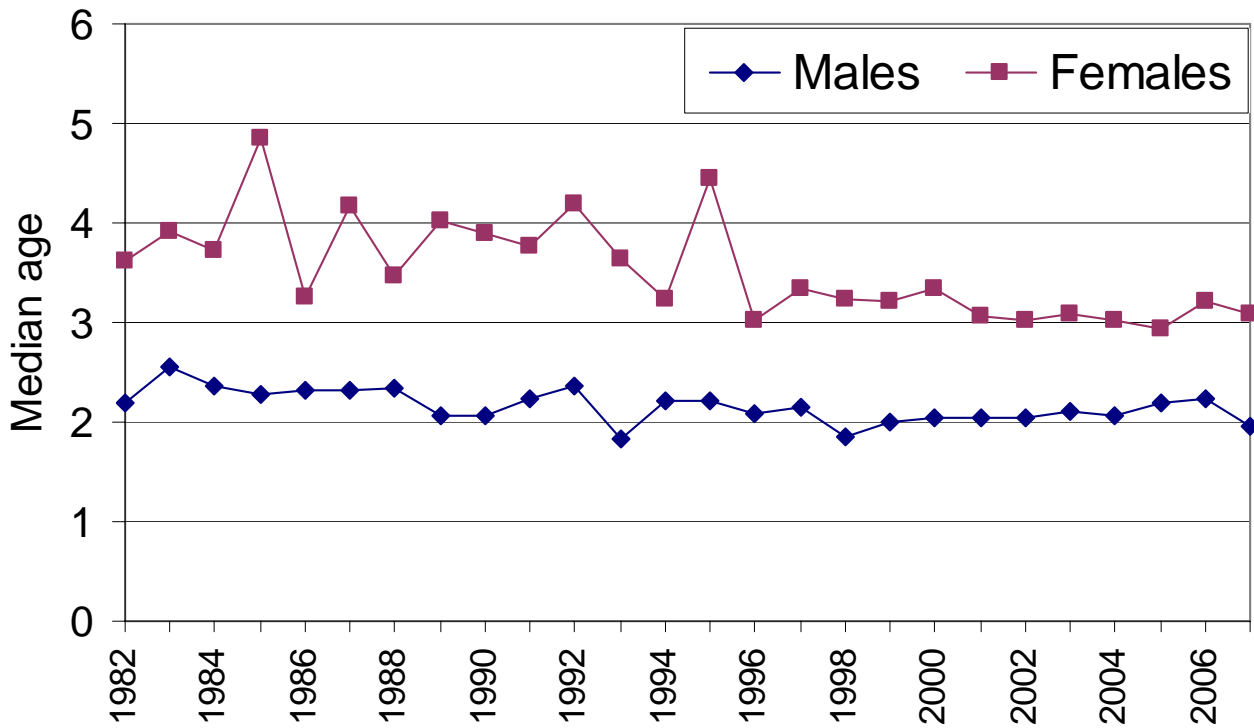
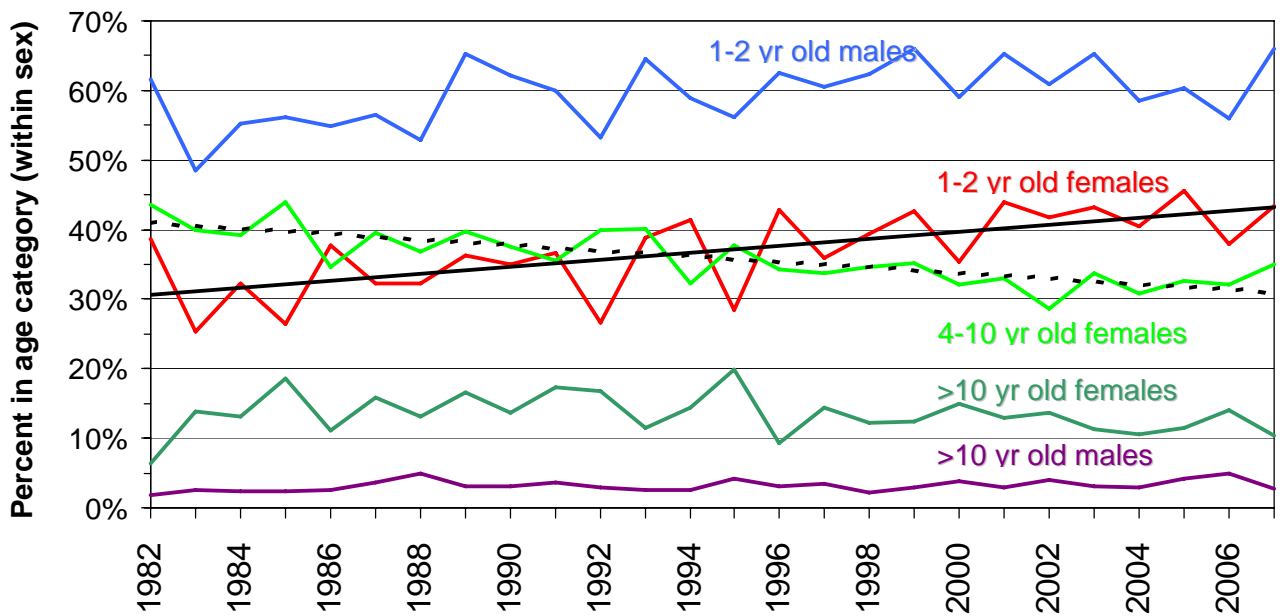


Figure 4. Statewide harvest age structure: proportion of each sex in age category, 1982–2007



2007 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 2007, hunters registered 260,434 deer. This harvest marked the second highest harvest recorded in Minnesota.

METHODS

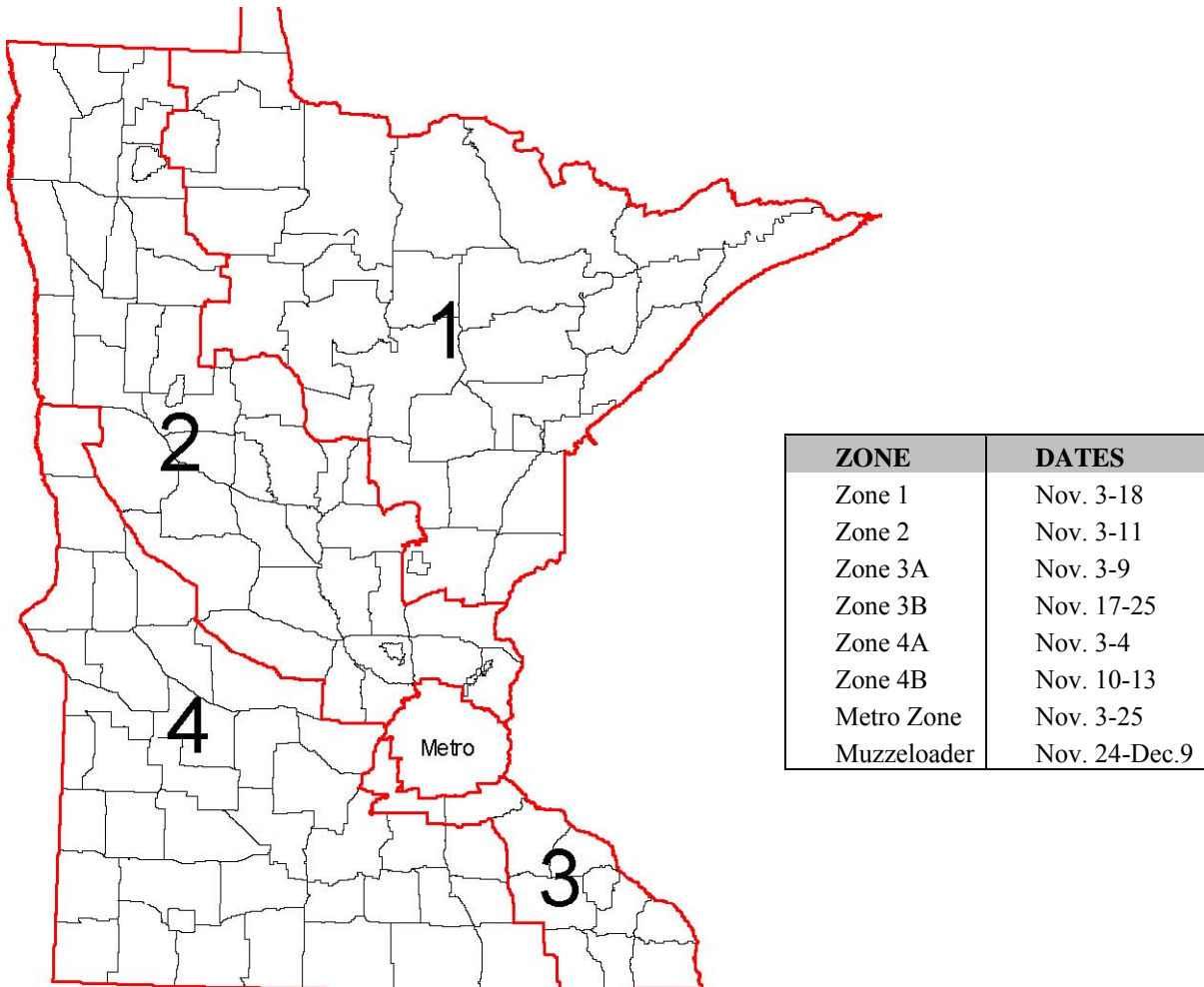
Every deer taken by hunting in Minnesota must be registered within 24 hours of the close of the season under which the deer was taken. Deer may be registered at any of the 825 to nearly 900 "Big Game Registration" stations available throughout the state. Implementation of electronic licensing (ELS) has 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 of kill, deer permit area, and season.

RESULTS

Outcome of the 2007 deer harvest are presented in the following tables.

Figure 1. 2007 Firearms and Archery Deer Seasons. 2007 Minnesota Firearms Deer Seasons

2007 Minnesota Firearms Deer Seasons



2007 Minnesota Archery Deer Season

Season Dates: September 15-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 1. Statewide Firearms, Archery, and Muzzleloader Harvest, License Sales, and Success Rates, 1995-2007.

REGULAR FIREARMS													
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Resident License Sales	419,965	389,745	369,190	378,320	395,745	400,814	401,005	367,964	344,875	309,698	291,298	299,774	285,286
Non-Resident License Sales	9,339	8,535	7,830	8,852	9,970	10,595	10,972	10,835	11,334	12,036	12,523	12,520	12,520
Antlerless Permit Sales	22,603	27,148	32,229	20,884	23,785	34,802	59,013	105,699	194,201	183,186	184,566	167,343	145,522
Multi-Zone Buck License Sales	29,902	38,806	42,803	44,739	43,903	42,669	41,921	35,658	32,929	32,359	28,233	15,984	15,051
Resident Youth License Sales	1,835	2,964	3,844	3,445	2,038	3,215	4,011	2,884	34,463	51,347	50,501	49,599	49,242
All Season Deer License Sales						2,384	3,986	22,125	30,998	46,008	59,090	75,511	76,385
Total License Sales	483,644	467,198	455,896	456,240	475,441	495,289	519,601	545,165	648,800	634,634	626,211	620,731	584,006
Registered Buck Harvest ¹	88,997	71,242	64,867	82,921	92,584	102,961	98,894	101,333	110,440	116,612	95,594	95,695	97,528
Antlerless Permits Offered	201,525	154,195	150,195	140,280	177,380	232,595	286,540	365,667	31,625	30,760	28,830	28,830	28,830
Antlerless Permits Issued	162,761	116,650	105,481	108,016	135,852	180,490	196,603	192,907	25,386	24,111	25,656	25,656	25,656
Antlerless Permits App.	257,653	174,329	142,260	151,148	214,597	237,571	225,341	202,086	30,253	28,454	31,403	31,403	31,403
Registered AL Harvest ¹	109,196	68,106	62,038	60,475	71,681	88,492	98,169	102,280	147,420	123,278	119,363	135,981	118,860
Registered Total Harvest ¹	198,193	139,348	126,905	143,396	164,265	191,453	197,063	203,613	257,860	239,890	214,957	231,676	216,388
Registered % Successful ²	40.1	29.8	27.8	31.4	34.8	38.6	37.9	37.3	39.7	37.8	34.3	37.3	37.1
ARCHERY													
Resident License Sales	70,056	67,058	63,499	63,826	66,226	68,947	69,608	57,532	59,339	50,601	50,293	49,595	52,780
Non-Resident License Sales	1,171	1,098	980	1,029	1,073	1,271	1,288	1,275	1,428	1,144	1,207	1,286	1,509
Youth Archery Sales									3748	7261	7,489	7,688	7,663
Mgmt Permit License Sales	15,387	15,632	17,478	15,846	16,945	20,393	22,141	18,126	N/A	N/A	N/A	N/A	N/A
Total License Sales	86,614	83,788	81,957	80,701	84,244	90,611	93,037	76,933	60,767	51,745	58,989	58,569	61,952
Registered Harvest	14,521	14,338	13,258	12,306	13,376	15,776	15,884	14,744	21,720	17,237	18,975	17,076	17,261
Registered Harvest - AS license										3,489	4,563	8,284	6,900
Total Archery Harvest	14,521	14,338	13,258	12,306	13,376	15,776	15,884	14,744	21,691	20,726	23,538	25,360	24,161
Registered % Successful ²	16.8	17.1	16.2	15.2	15.8	17.4	17.1	19.2	31.8	29.2	24.6	24.8	24.3
MUZZLELOADER													
Total Muzzleloader License Sales						11,972	13,043	11,764	9,142	10,512	9,226	10,781	9,867
Estimated All-Season Hunters									12,020	14,168	23,293	23,293	26,813
Total Muzzleloader Harvest	2,452	3,367	3,164	3,152	2,928	4,548	4,494	3,505	9,466	9,289	15,421	13,507	12,138
Registered % Successful ²						38	34.5	29.8	44.7	37.6	47.4	39.6	28.2
Total Registered Harvest	215,166	157,317	143,327	158,854	180,569	211,777	217,452	222,050	290,525	260,604	255,736	270,778	260,434

¹ Does not include free landowner licenses ² Based on total license sales - does not include all-season deer

Table 2. Deer Harvest by License Type and Zone, 2007.

Firearms/Zone	Hunters	Bucks	Harvest		Overall Success
			Antlerless	Total	
1	172,112	42,156	50,919	93,075	43.7%
2	152,305	32,939	47,753	80,692	42.6%
3A	21,190	5,766	3,600	9,366	38.1%
3B	18,427	2,881	6,764	9,645	41.9%
4A	40,151	7,818	4,154	11,972	28.7%
4B	20,048	5,064	3,926	8,990	42.9%
Early Season	23,306	0	7,165	7,165	26.3%
Multi-Zone Buck	15,051	3,734	0	3,734	24.8%
Free Landowner ¹	4,393	0	1,444	1,444	32.9%
All-Season Deer ¹	76,385	17,116	33,485	50,601	47.4%
Muzzleloader	36,680	3,507	8,631	12,138	28.1%
Archery ²	78,952	7,500	16,661	24,161	24.3%
TOTAL^{3,4}	482,613	108,623	151,811	260,434	41.6%

¹ Includes deer taken during regular firearms, muzzleloader, and archery seasons.

² Includes Camp Ripley and all-season harvest. Total number of people who bought only an archery license was 22,443.

³ Due to the fact that a hunter can buy multiple licenses, hunter numbers are an estimate.

⁴ Column totals do not add to 260,434 because all-season firearm harvest was placed in appropriate zone.

Table 3. Firearms Harvest and Harvest per Square Mile by Permit Area, 2007. Includes all firearm licenses but does not include early antlerless harvest.

Permit Area	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks / Sq. Mile	Antlerless / Sq. Mile	Total/ Sq. Mile
101	1A	501	149	442	111	1,203	496	1.01	1.42	2.43
104	1A	1,250	211	824	159	2,444	2,078	0.60	0.57	1.18
105	1A	1,142	316	1,077	242	2,777	740	1.54	2.21	3.75
107	1A	1,866	316	1,236	221	3,639	1,896	0.98	0.93	1.92
110	1A	768	191	669	186	1,814	300	2.56	3.49	6.05
111	1A	805	127	505	96	1,533	1,437	0.56	0.51	1.07
114	1A	80	6	22	3	111	123	0.65	0.25	0.90
115	1A	2,169	342	1,284	227	4,022	1,867	1.16	0.99	2.15
116	1A	247	16	56	6	325	1,164	0.21	0.07	0.28
122	1A	645	83	297	53	1,078	619	1.04	0.70	1.74
126	1A	656	44	306	28	1,034	943	0.70	0.40	1.10
127	1A	146	5	51	6	208	561	0.26	0.11	0.37
152	1A	136	41	141	25	343	61	2.23	3.39	5.62
154	1A	1,814	473	1,483	415	4,185	760	2.39	3.12	5.51
156	1A	1,977	574	1,688	512	4,751	825	2.40	3.36	5.76
157	1A	2,679	876	2,341	671	6,567	889	3.01	4.37	7.38
159	1A	1,518	404	1,249	315	3,486	568	2.67	3.47	6.14
167	1A	804	218	696	138	1,856	432	1.86	2.44	4.30
168	1A	1,462	376	1,075	240	3,153	723	2.02	2.34	4.36
170	1A	2,963	911	2,784	800	7,458	1,311	2.26	3.43	5.69
172	1A	1,757	556	1,751	431	4,495	451	3.90	6.07	9.97
174	1A	1,350	357	1,058	254	3,019	835	1.62	2.00	3.62
175	1A	2,158	411	1,357	295	4,221	1,249	1.73	1.65	3.38
178	1A	2,864	695	2,058	482	6,099	1,259	2.27	2.57	4.84
180	1A	1,746	253	1,121	178	3,298	983	1.78	1.58	3.36
181	1A	2,055	509	1,500	358	4,422	709	2.90	3.34	6.24
182	1A	372	71	264	53	760	269	1.38	1.44	2.83
183	1A	1,667	364	1,183	270	3,484	663	2.51	2.74	5.25
184	1A	3,345	1,334	3,236	1,048	8,963	1,231	2.72	4.56	7.28
197	1A	1,074	221	682	159	2,136	975	1.10	1.09	2.19
199	1A	140	13	35	3	191	148	0.95	0.34	1.29
201	2A	88	14	60	17	179	161	0.55	0.57	1.11
203	2A	87	7	27	3	124	118	0.74	0.31	1.05
208	2A	228	53	185	36	502	379	0.60	0.72	1.33
209	2A	595	177	532	157	1,461	639	0.93	1.35	2.28
210	2A	1,027	295	812	289	2,423	615	1.67	2.27	3.94
213	2A	1,688	515	1,492	437	4,132	1,057	1.60	2.31	3.91
214	2A	1,262	562	1,363	515	3,702	557	2.27	4.38	6.65
215	2A	853	167	493	132	1,645	701	1.22	1.13	2.35
218	2A	688	130	380	115	1,313	884	0.78	0.71	1.48
219	2A	446	49	207	56	758	392	1.14	0.80	1.93
221	2A	1,010	368	952	326	2,656	642	1.57	2.56	4.14
222	2A	909	322	856	269	2,356	413	2.20	3.51	5.71

Table 3. (Continued).

Permit Area	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks / Sq. Mile	Antlerless / Sq. Mile	Total/ Sq. Mile
223	2A	514	134	337	125	1,110	377	1.36	1.58	2.94
224	2A	118	32	119	37	306	47	2.53	4.03	6.55
225	2A	1,327	349	981	327	2,984	618	2.15	2.68	4.83
227	2A	846	227	581	189	1,843	471	1.80	2.12	3.91
229	2A	232	76	188	69	565	287	0.81	1.16	1.97
235	2A	47	15	44	13	119	32	1.47	2.24	3.71
236	2A	798	178	494	125	1,595	372	2.14	2.14	4.29
239	2A	1,562	487	1,332	407	3,788	922	1.69	2.41	4.11
240	2A	1,748	664	1,702	595	4,709	642	2.72	4.62	7.34
241	2A	1,400	575	1,254	460	3,689	417	3.36	5.49	8.85
242	2A	589	237	653	191	1,670	215	2.74	5.03	7.78
243	2A	982	394	1,009	295	2,680	314	3.13	5.41	8.55
244	2A	1,888	809	1,951	803	5,451	583	3.24	6.11	9.34
245	2A	1,787	673	1,757	614	4,831	583	3.07	5.22	8.29
246	2A	1,828	655	1,793	618	4,894	772	2.37	3.97	6.34
247	2A	714	229	625	176	1,744	229	3.12	4.49	7.61
248	2A	396	166	401	127	1,090	212	1.87	3.27	5.14
249	2A	1,145	431	1,069	321	2,966	502	2.28	3.63	5.91
251	2A	88	28	93	27	236	55	1.60	2.68	4.28
256	2A	586	143	507	120	1,356	653	0.90	1.18	2.08
257	2A	432	122	433	110	1,097	412	1.05	1.61	2.66
260	2A	700	135	636	123	1,594	1,249	0.56	0.72	1.28
261	2A	230	50	245	47	572	795	0.29	0.43	0.72
262	2A	220	15	63	10	308	677	0.32	0.13	0.45
263	2A	435	67	255	55	812	512	0.85	0.74	1.59
264	2A	751	174	536	151	1,612	669	1.12	1.29	2.41
265	2A	575	162	615	170	1,522	494	1.16	1.92	3.08
266	2A	457	36	139	23	655	617	0.74	0.32	1.06
267	2A	276	80	263	58	677	472	0.58	0.85	1.43
268	2A	332	83	219	44	678	229	1.45	1.51	2.95
287	2A	91	45	126	43	305	46	1.98	4.66	6.64
297	2A	237	38	149	44	468	438	0.54	0.53	1.07
298	2A	727	176	457	155	1,515	618	1.18	1.27	2.45
338	3A	209	11	52	10	282	454	0.46	0.16	0.62
338	3B	103	46	122	21	292	454	0.23	0.42	0.64
339	3A	195	10	29	3	237	394	0.49	0.11	0.60
339	3B	100	47	104	34	285	394	0.25	0.47	0.72
341	3A	608	46	94	28	776	611	1.00	0.28	1.27
341	3B	330	194	510	138	1,172	611	0.54	1.38	1.92
342	3A	519	14	64	14	611	350	1.48	0.26	1.74
342	3B	282	149	432	125	988	350	0.81	2.02	2.82
343	3A	575	75	240	53	943	662	0.87	0.56	1.42
343	3B	296	177	453	107	1,033	662	0.45	1.11	1.56
344	3A	365	29	45	11	450	189	1.93	0.45	2.37
344	3B	121	32	91	19	263	189	0.64	0.75	1.39

Table 3. (Continued).

Permit Area	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks / Sq. Mile	Antlerless / Sq. Mile	Total/ Sq. Mile
345	3A	382	49	169	28	628	326	1.17	0.75	1.93
345	3B	227	100	343	71	741	326	0.70	1.58	2.27
346	3A	787	111	401	86	1,385	319	2.47	1.88	4.35
346	3B	367	192	577	142	1,278	319	1.15	2.86	4.01
347	3A	526	98	317	55	996	434	1.21	1.08	2.30
347	3B	264	121	372	92	849	434	0.61	1.35	1.96
348	3A	640	90	426	69	1,225	332	1.93	1.76	3.69
348	3B	256	115	420	100	891	332	0.77	1.91	2.69
349	3A	960	129	598	146	1,833	492	1.95	1.77	3.73
349	3B	535	245	859	214	1,853	492	1.09	2.68	3.77
412	4A	274	43	146	33	496	572	0.48	0.39	0.87
412	4B	140	23	98	19	280	572	0.24	0.24	0.49
416	4A	312	17	97	11	437	543	0.57	0.23	0.81
416	4B	201	22	82	15	320	543	0.37	0.22	0.59
417	4A	634	36	173	33	876	813	0.78	0.30	1.08
417	4B	333	41	165	38	577	813	0.41	0.30	0.71
420	4A	151	18	57	18	244	650	0.23	0.14	0.38
420	4B	119	16	60	16	211	650	0.18	0.14	0.32
421	4A	113	13	44	7	177	748	0.15	0.09	0.24
421	4B	60	9	19	0	88	748	0.08	0.04	0.12
422	4A	108	6	13	3	130	632	0.17	0.03	0.21
422	4B	95	4	9	3	111	632	0.15	0.03	0.18
423	4A	99	4	17	4	124	531	0.19	0.05	0.23
423	4B	64	4	10	1	79	531	0.12	0.03	0.15
424	4A	209	8	23	3	243	764	0.27	0.04	0.32
424	4B	129	6	22	4	161	764	0.17	0.04	0.21
425	4A	71	2	13	3	89	779	0.09	0.02	0.11
425	4B	56	2	14	4	76	779	0.07	0.03	0.10
426	4A	164	11	23	7	205	614	0.27	0.07	0.33
426	4B	85	7	18	3	113	614	0.14	0.05	0.18
427	4A	162	9	45	6	222	838	0.19	0.07	0.27
427	4B	93	7	26	2	128	838	0.11	0.04	0.15
428	4A	179	22	63	11	275	550	0.33	0.17	0.50
428	4B	143	20	65	18	246	550	0.26	0.19	0.45
431	4A	119	5	29	2	155	355	0.34	0.10	0.44
431	4B	87	3	15	5	110	355	0.24	0.06	0.31
433	4A	266	19	85	10	380	401	0.66	0.28	0.95
433	4B	153	22	63	7	245	401	0.38	0.23	0.61
435	4A	232	9	37	4	282	575	0.40	0.09	0.49
435	4B	152	13	49	7	221	575	0.26	0.12	0.38
440	4A	315	16	101	22	454	662	0.48	0.21	0.69
440	4B	103	16	56	5	180	662	0.16	0.12	0.27
442	4A	436	32	129	24	621	802	0.54	0.23	0.77
442	4B	230	16	111	21	378	802	0.29	0.18	0.47

Table 3. (Continued).

Permit Area	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks / Sq. Mile	Antlerless / Sq. Mile	Total/ Sq. Mile
443	4A	140	21	63	14	238	386	0.36	0.25	0.62
443	4B	69	12	63	12	156	386	0.18	0.23	0.40
446	4A	122	9	38	3	172	344	0.36	0.15	0.50
446	4B	83	8	42	9	142	344	0.24	0.17	0.41
447	4A	133	12	46	5	196	675	0.20	0.09	0.29
447	4B	71	7	39	2	119	675	0.11	0.07	0.18
448	4A	208	14	57	14	293	446	0.47	0.19	0.66
448	4B	89	6	55	6	156	446	0.20	0.15	0.35
449	4A	246	16	66	16	344	625	0.39	0.16	0.55
449	4B	106	9	59	3	177	625	0.17	0.11	0.28
450	4A	144	7	26	6	183	816	0.18	0.05	0.22
450	4B	66	5	22	7	100	816	0.08	0.04	0.12
451	4A	184	11	53	12	260	686	0.27	0.11	0.38
451	4B	140	11	63	11	225	686	0.20	0.12	0.33
452	4A	121	7	72	8	208	636	0.19	0.14	0.33
452	4B	129	12	71	7	219	636	0.20	0.14	0.34
453	4A	149	11	54	6	220	728	0.20	0.10	0.30
453	4B	108	6	45	2	161	728	0.15	0.07	0.22
454	4A	280	19	97	19	415	840	0.33	0.16	0.49
454	4B	203	20	84	7	314	840	0.24	0.13	0.37
455	4A	31	8	18		57	95	0.33	0.27	0.60
455	4B	33	3	12		48	95	0.35	0.16	0.51
456	4A	184	16	91	7	298	711	0.26	0.16	0.42
456	4B	169	16	79	16	280	711	0.24	0.16	0.39
457	4A	209	9	77	16	311	666	0.31	0.15	0.47
457	4B	115	9	49	2	175	666	0.17	0.09	0.26
458	4A	163	11	43	7	224	715	0.23	0.09	0.31
458	4B	140	7	50	7	204	715	0.20	0.09	0.29
459	4A	237	8	69	13	327	974	0.24	0.09	0.34
459	4B	186	20	89	19	314	974	0.19	0.13	0.32
461	4A	235	59	189	56	539	480	0.49	0.63	1.12
461	4B	153	33	165	41	392	480	0.32	0.50	0.82
462	4A	304	72	174	45	595	511	0.59	0.57	1.16
462	4B	188	63	199	47	497	511	0.37	0.60	0.97
463	4A	158	11	75	7	251	452	0.35	0.21	0.56
463	4B	91	17	53	9	170	452	0.20	0.17	0.38
464	4A	139	25	69	15	248	377	0.37	0.29	0.66
464	4B	107	26	109	23	265	377	0.28	0.42	0.70
465	4A	121	26	71	11	229	385	0.31	0.28	0.60
465	4B	98	31	110	19	258	385	0.25	0.42	0.67
466	4A	266	46	169	25	506	930	0.29	0.26	0.54
466	4B	263	48	255	42	608	930	0.28	0.37	0.65
467	4A	200	45	178	25	448	774	0.26	0.32	0.58
467	4B	214	46	195	31	486	774	0.28	0.35	0.63

Table 3. (Continued).

Permit Area	Zone	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Area Size (sq.mi.)	Bucks / Sq. Mile	Antlerless / Sq. Mile	Total/ Sq. Mile
601	Metro	660	148	456	98	1,362	1,633	0.40	0.43	0.83
901		5	1	2	0	8				
902		65	60	142	51	318				
903		6	3	12	4	25				
904		2	0	4	0	6				
905		4	1	2	0	7				
906		6	3	12	2	23				
907		0	1	3	0	4				
908		0	0	2	0	2				
909		1	0	5	0	6				
910		0	0	4	0	4				
911		1	0	1	1	3				
912		19	16	36	32	103				
913		0	5	11	2	18				
914		18	7	23	6	54				
915		0	1	2	1	4				
916		23	30	55	20	128				
918		4	0	2	0	6				
919		7	9	11	3	30				
920		0	1	4	0	5				
921		10	22	31	24	87				
922		13	14	28	9	64				
923		11	12	21	13	57				
924		0	3	10	0	13				
925		2	8	18	2	30				
926		14	11	50	20	95				
927		16	14	27	13	70				
928		0	1	4	1	6				
929		6	6	4	2	18				
930		0	5	19	7	31				
931		1	0	3	0	4				
932		0	1	6	6	13				
933		10	7	20	7	44				
TOTAL		97,528	24,656	74,284	19,920	216,388				

Table 4. Firearm Bonus Permit Harvest by Permit Area, 2007.
Managed Permit Areas.

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
104	1A	97	348	79	524
107	1A	127	560	106	793
111	1A	55	229	49	333
114	1A	2	15	2	19
115	1A	133	523	101	757
122	1A	41	120	24	185
127	1A	1	13	0	14
152	1A	9	50	12	71
154	1A	184	576	178	938
168	1A	133	352	94	579
172	1A	200	702	188	1,090
174	1A	146	411	108	665
175	1A	171	578	166	915
183	1A	155	512	115	782
197	1A	76	253	67	396
201	2A	8	17	4	29
208	2A	28	78	15	121
213	2A	153	390	154	697
223	2A	42	95	42	179
224	2A	11	50	21	82
229	2A	19	59	20	98
235	2A	9	22	4	35
239	2A	193	497	164	854
245	2A	220	666	243	1,129
246	2A	235	689	237	1,161
247	2A	86	244	76	406

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
249	2A	160	370	134	664
251	2A	9	41	12	62
263	2A	25	115	24	164
264	2A	73	233	68	374
268	2A	36	107	21	164
297	2A	11	59	17	87
298	2A	64	159	75	298
343	3A	31	87	24	142
345	3A	25	75	13	113
338	3B	19	45	5	69
339	3B	18	50	17	85
341	3B	75	186	61	322
342	3B	52	178	50	280
461	4A	9	27	6	42
462	4A	12	45	13	70
464	4A	5	10	0	15
465	4A	3	19	1	23
466	4A	11	30	7	48
467	4A	12	44	5	61
461	4B	6	35	5	46
462	4B	15	53	9	77
464	4B	5	16	6	27
465	4B	6	26	4	36
466	4B	12	63	11	86
467	4B	17	39	6	62
Total		3,245	10,161	2,863	16,269

Table 4. Firearm Bonus Permit Harvest by Permit Area, 2007.
Intensive Permit Areas

Permit Area	Zone	Fawn Male	Adult Female	Fawn Female	Total
105	1A	173	632	148	953
110	1A	98	347	100	545
126	1A	29	179	17	225
156	1A	274	841	274	1,389
157	1A	388	1110	350	1,848
159	1A	205	620	171	996
167	1A	101	264	50	415
170	1A	406	1309	391	2,106
178	1A	367	1079	266	1,712
180	1A	142	604	99	845
181	1A	282	817	239	1,338
182	1A	37	141	29	207
184	1A	673	1647	554	2,874
209	2A	83	270	95	448
210	2A	148	391	155	694
214	2A	203	458	192	853
221	2A	127	331	121	579
222	2A	132	320	90	542
225	2A	152	414	176	742
227	2A	115	255	87	457
236	2A	90	247	68	405
240	2A	278	657	238	1,173
241	2A	264	524	223	1,011
242	2A	121	283	94	498
243	2A	158	421	123	702
244	2A	368	885	430	1,683
248	2A	60	132	55	247
256	2A	72	265	67	404
257	2A	49	215	67	331
260	2A	66	339	80	485
261	2A	26	118	17	161
265	2A	67	263	79	409
267	2A	42	118	37	197
287	2A	19	47	15	81
346	3A	41	205	49	295
347	3A	44	115	21	180
348	3A	40	208	41	289
349	3A	58	289	84	431
343	3B	105	249	69	423
345	3B	45	163	35	243
346	3B	103	314	79	496
347	3B	74	210	62	346
348	3B	49	208	67	324
349	3B	136	462	136	734
Total		6,510	18,966	5,840	31,316

Table 5. Early Antlerless Season Harvest by Permit Area, 2007.

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
101	11	83	31	125
105	36	195	57	288
157	113	312	135	560
184	212	537	207	956
209	30	143	43	216
210	81	209	84	374
214	129	246	146	521
221	82	222	95	399
222	50	141	48	239
225	77	165	87	329
227	44	113	41	198
236	25	93	20	138
241	114	283	136	533
243	71	193	75	339
244	175	418	202	795
256	34	141	33	208
257	34	57	29	120
260	22	102	18	142
261	5	28	10	43
265	32	62	24	118
346	45	110	53	208
349	41	152	63	256
601	12	43	5	60
Total	1,475	4,048	1,642	7,165

Table 6. Multi-Zone Buck Harvest by Permit Area, 2007.

Zone 1		Zone 2				Zone 3		Zone 4	
Permit Area	Adult Male	Permit Area	Adult Male	Permit Area	Adult Male	Permit Area	Adult Male	Permit Area	Adult Male
101	19	201	1	242	16	338	8	412	78
104	23	203	3	243	13	339	5	416	83
105	31	208	6	244	20	341	14	417	137
107	20	209	12	245	42	342	4	420	51
110	17	210	22	246	31	343	9	421	29
111	21	213	67	247	12	344	9	422	43
114	2	214	29	248	5	345	3	423	28
115	20	215	46	249	21	346	4	424	56
116	1	218	18	251	4	347	12	425	21
122	7	219	22	256	21	348	6	426	61
126	6	221	15	257	7	349	7	427	69
127	1	222	22	260	18	Zone 3		428	51
152	6	223	10	261	8	Total	81	431	26
154	33	224	3	262	8			433	60
156	21	225	36	263	7			435	55
157	32	227	26	264	17			440	60
159	21	229	12	265	11			442	124
167	12	235	6	266	12			443	32
168	15	236	19	267	9			446	35
170	32	239	39	268	16			447	29
172	40	240	51	287	4			448	60
174	30	241	33	297	8			449	46
175	14			298	19			450	43
178	21							451	61
180	12							452	41
181	9	Zone 2						453	47
182	1	Total	827					454	64
183	28							455	7
184	91							456	53
197	27							457	48
199	1							458	72
Zone 1	614	Area						459	74
		601						461	65
		Total	25					462	69
								463	35
		Grand						464	44
		Total	3,734					465	49
								466	112
								467	69
								Zone 4	
								Total	2,187

Table 7. Summary of Firearms Special Hunts, 2007.
Includes Regular, Youth, All-Season licenses, and Bonus Permits.

Area	Dates	Zone	Permits Issued	Harvest				Total
				Adult Male	Fawn Male	Adult Female	Fawn Female	
901 - Rice Lake Nat. Wildlife Refuge	11/10 - 11/18	1A	100*	6	1	2	0	9
902 - St. Croix State Park ¹	11/10 - 11/13	1A	550**	65	60	142	51	318
903 - Savanna Portage State Park ¹	11/10 - 11/18	1A	55***	6	3	12	4	25
904 - Gooseberry Falls State Park ¹	11/3 - 11/18	1A	30*	2	0	4	0	6
905 - Split Rock Lighthouse State Park ¹	11/3 - 11/18	1A	30*	4	1	2	0	7
906 - Tettegouche State Park ¹	11/3 - 11/18	1A	125*	6	3	12	2	23
907 - Scenic State Park ¹	11/3 - 11/18	1A	30*	0	1	3	0	4
908 - Hayes Lake State Park ¹	11/3 - 11/18	1A	Unl.	0	0	2	0	2
909 - Lake Bemidji State Park ¹	11/3 - 11/6	1A	35#	1	0	5	0	6
910 - Zippel Bay State Park ¹	11/3 - 11/18	1A	55#	0	0	4	0	4
911 - Judge CR Magney SP*	11/3 - 11/18	1A	Unl.	1	0	1	1	3
912 - Wild River State Park ¹	11/3 - 11/6	2A	150**	19	16	36	32	103
913 - Lake Carlos State Park ¹	11/3 - 11/6	2A	27#	0	5	11	2	18
914 - William O'Brien State Park ¹	11/3 - 11/4	2A	65*	18	7	23	6	54
915 - Lake Bronson State Park ¹	11/3 - 11/11	2A	25#	0	1	2	1	4
916 - Maplewood State Park ¹	11/3 - 11/11	2A	100**	23	30	55	20	128
917 - Rydell NWR ¹	11/3 - 11/11	2A	5#	0	0	0	0	0
918 - Lake Alexander SNA ¹	11/3 - 11/11	2A	40*	4	0	2	0	6
919 - Beaver Creek Valley State Park ¹	11/3 - 11/4	3A	20**	7	9	11	3	30
920 - Zumbro Falls SNA ¹	11/3 - 11/9	3A	12#	0	1	4	0	5
921 - Forestville/Mystery Cave SP ¹	11/17 - 11/19 11/23 - 11/25	3B	110***	10	22	31	24	87
922 - Frontenac State Park ¹	11/17 - 11/19	3B	50**	13	14	28	9	64
923 - Great River Bluffs SP ¹	11/17 - 11/19 11/23 - 11/25	3B	100**	11	12	21	13	57
924 - Zumbro Falls SNA ¹	11/17 - 11/25	3B	12#	0	3	10	0	13
925 - Whitewater Refuge	11/17 - 11/25	3B	75#	2	8	18	2	30
926 - Whitewater State Park ¹	11/17 - 11/25	3B	50**	14	11	50	20	95
927 - Carver Park Reserve ¹	11/17 - 11/18	Metro	105*	16	14	27	14	71
928 - Crow Hassan Park Reserve ¹	11/25 - 11/26	Metro	75*	1	1	4	1	7
929 - Vermillion Highlands WMA ¹	11/3 - 11/16	Metro	20*	6	6	5	2	19
930 - Buffalo River State Park ¹	11/3 - 11/4	4A	16#	0	5	19	7	31
931 - Blue Mounds State Park ¹	11/3 - 11/4	4A	25#	1	0	3	0	4
932 - Glacial Lakes State Park ¹	11/10 - 11/13	4B	30#	0	1	6	6	13
933 - Lake Louise State Park ¹	11/10 - 11/11	4B	25**	10	7	20	7	44
TOTAL				246	242	575	227	1,290

¹ Bonus permits available
*** Antler Point Restriction

* Either sex
Antlerless Only

** Earn -A-Buck

Table 8. Free Landowner Firearms Harvest by Permit Area, 2007.

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
101	1	2	1	4
104	3	12	2	17
105	1	7	0	8
107	2	8	2	12
110	0	8	1	9
111	0	3	1	4
115	1	3	1	5
122	0	2	1	3
154	1	4	0	5
156	2	6	3	11
157	6	31	4	41
159	1	2	1	4
167	0	2	1	3
168	1	0	0	1
170	5	15	2	22
172	1	1	2	4
174	1	7	0	8
175	2	3	3	8
178	6	7	3	16
180	1	5	0	6
181	1	7	1	9
182	0	1	0	1
183	1	4	1	6
184	16	28	11	55
197	0	8	1	9
208	1	0	2	3
209	3	8	5	16
210	6	18	5	29
213	15	40	15	70
214	18	61	18	97
221	8	16	9	33
222	1	11	4	16
223	2	0	0	2
225	6	15	7	28
227	0	2	0	2
229	0	2	0	2
236	3	5	0	8

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
239	7	23	6	36
240	9	24	9	42
241	5	30	8	43
242	0	2	1	3
243	4	12	9	25
244	7	14	5	26
245	4	10	3	17
246	5	35	6	46
247	2	0	0	2
248	0	5	3	8
249	13	32	8	53
256	2	15	3	20
257	2	10	4	16
260	3	11	1	15
261	3	5	1	9
263	3	2	1	6
264	3	21	5	29
265	3	21	7	31
267	1	8	1	10
268	2	3	2	7
297	2	1	0	3
338	0	5	1	6
339	0	3	0	3
341	11	22	11	44
342	8	22	8	38
343	5	12	3	20
345	2	19	3	24
346	8	25	12	45
347	1	15	1	17
348	6	21	5	32
349	7	51	10	68
461	1	7	2	10
462	6	2	1	9
464	0	2	0	2
465	0	4	1	5
466	0	4	0	4
467	4	11	1	16
601	1	0	0	1
TOTAL	256	863	249	1,368

Table 9. Archery Harvest by Permit Area, 2007.
Includes Regular, Youth, All-Season, and Bonus Permits.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
101	20	5	19	5	49
104	14	4	24	5	47
105	32	11	79	7	129
107	28	12	98	8	146
110	9	9	57	12	87
111	10	1	10	1	22
114	2	1	10	0	13
115	24	5	46	4	79
116	6	0	3	0	9
122	12	2	16	4	34
126	19	3	36	4	62
127	1	0	3	0	4
152	7	1	6	5	19
154	71	22	122	26	241
156	69	26	188	27	310
157	118	52	294	47	511
159	75	27	151	24	277
167	7	8	43	6	64
168	47	17	62	10	136
170	131	68	351	58	608
172	78	25	133	10	246
174	28	13	91	9	141
175	47	14	70	4	135
178	76	33	210	18	337
180	101	32	184	30	347
181	156	39	221	33	449
182	166	95	443	108	812
183	55	15	96	16	182
184	142	104	420	95	761
197	20	7	37	5	69
199	8	2	2	0	12
201	1	1	4	1	7
203	1	0	1	0	2
208	2	0	6	1	9
209	28	8	53	7	96
210	29	13	79	14	135
213	121	28	218	28	395
214	75	54	200	33	362
215	85	11	52	12	160
218	79	14	54	9	156
219	65	11	57	9	142
221	80	54	185	59	378
222	52	31	134	29	246
223	138	33	186	28	385
224	14	0	17	0	31
225	147	50	195	32	424
227	220	69	369	81	739
229	45	15	78	10	148

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
235	17	6	9	4	36
236	252	70	354	91	767
239	78	27	123	13	241
240	83	48	253	55	439
241	56	38	197	40	331
242	83	66	251	51	451
243	51	28	188	28	295
244	97	60	285	57	499
245	72	36	140	34	282
246	71	37	153	22	283
247	66	26	95	17	204
248	48	28	92	13	181
249	63	28	106	13	210
251	1	2	2	1	6
256	24	9	43	7	83
257	14	4	43	9	70
260	40	6	57	5	108
261	19	0	20	6	45
262	21	3	12	2	38
263	8	1	12	1	22
264	21	3	25	2	51
265	22	4	61	6	93
266	9	4	7	1	21
267	12	3	30	5	50
268	5	0	14	0	19
287	1	0	0	0	1
297	4	0	4	3	11
298	14	6	27	2	49
338	85	15	57	9	166
339	64	10	67	5	146
341	138	31	175	22	366
342	89	21	72	13	195
343	247	85	466	56	854
344	54	6	20	3	83
345	80	19	150	17	266
346	171	35	259	57	522
347	96	28	250	35	409
348	98	33	162	36	329
349	145	39	258	37	479
412	33	7	14	5	59
416	33	0	31	2	66
417	116	13	98	9	236
420	43	1	7	2	53
421	19	1	11	1	32
422	17	1	5	1	24
423	10	1	6	0	17
424	13	2	12	1	28

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
425	12	1	4	0	17
426	21	2	8	1	32
427	36	2	14	0	52
428	64	5	40	7	116
431	17	2	26	0	45
433	50	5	34	11	100
435	42	1	14	0	57
440	47	6	35	2	90
442	128	8	83	11	230
443	38	2	44	1	85
446	9	4	8	2	23
447	21	0	7	1	29
448	14	1	5	0	20
449	41	5	31	4	81
450	19	4	12	0	35
451	24	2	11	2	39
452	19	1	12	2	34
453	25	2	11	2	40
454	45	3	30	1	79
455	6	1	5	0	12
456	46	2	25	3	76
457	26	5	13	3	47
458	27	5	22	6	60
459	34	8	33	2	77
461	64	17	80	8	169
462	75	18	99	13	205
463	33	3	8	0	44
464	28	3	37	3	71
465	33	7	55	8	103
466	63	9	90	9	171
467	84	14	83	8	189
601	603	216	910	158	1,887
953*	64	28	104	36	232
954**	78	29	117	21	245
Total	7,500	2,357	12,246	2,058	24,161

*Camp Ripley First Hunt

**Camp Ripley Second Hunt

Table 10. Archery Harvest using Bonus Permits by Permit Area, 2007.

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
101	1	0	0	1
104	1	12	1	14
105	5	30	1	36
107	8	62	6	76
110	3	29	5	37
111	0	2	0	2
114	0	6	0	6
115	2	16	2	20
122	0	9	3	12
126	3	22	2	27
127	0	2	0	2
152	1	3	1	5
154	14	60	10	84
156	12	106	16	134
157	23	158	25	206
159	16	101	14	131
167	4	21	4	29
168	6	27	2	35
170	34	152	36	222
172	5	56	5	66
174	6	40	5	51
175	5	28	0	33
178	14	95	12	121
180	16	107	21	144
181	19	124	20	163
182	75	360	93	528
183	9	54	7	70
184	65	237	55	357
197	2	14	0	16
201	0	4	0	4
208	0	1	0	1
209	3	30	3	36
210	9	32	9	50
213	11	74	9	94
214	14	77	10	101
221	20	87	31	138
222	10	64	16	90
223	7	88	14	109
224	0	10	0	10
225	28	131	19	178
227	44	216	47	307
229	9	39	4	52
235	4	7	3	14
236	51	245	64	360
239	6	48	6	60

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
240	24	87	28	139
241	14	83	16	113
242	39	152	33	224
243	12	86	8	106
244	27	118	26	171
245	10	61	15	86
246	15	77	11	103
247	12	46	10	68
248	11	43	10	64
249	10	49	2	61
251	1	0	1	2
256	2	14	2	18
257	1	14	5	20
260	3	23	2	28
261	0	10	5	15
263	1	6	1	8
264	1	9	2	12
265	1	33	3	37
267	2	12	2	16
268	0	5	0	5
297	0	2	1	3
298	1	5	0	6
338	6	24	3	33
339	6	40	4	50
341	18	128	18	164
342	12	44	7	63
343	65	313	40	418
345	13	98	11	122
346	24	178	46	248
347	16	152	23	191
348	19	109	27	155
349	27	180	27	234
461	6	25	5	36
462	6	54	6	66
464	2	16	0	18
465	5	26	5	36
466	2	26	5	33
467	7	44	5	56
601	166	663	124	953
TOTAL	1,307	6,806	1,268	9,381

Table 11. Summary of Archery Special Hunts, 2007. Includes Regular, Youth, and Bonus Permits.

Area	Dates	Permits Issued	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
Camp Ripley	10/18-10/19	2,250	64	28	104	36	232
Camp Ripley	10/27-10/28	2,250	79	30	117	21	247
Cleary Lake	11/10-11/12	55	5	1	2	1	9
Crow-Hassan Park Reserve	11/10-11/12	130	6	3	5	3	17
Murphy-Hanrahan Park Reserve	11/10-11/12	185	9	0	8	1	18
Vermillion Highlands WMA	9/15 - 11/2	30	2	0	3	0	5
City of New Ulm	10/13-12/31	50	3	0	0	15	18
City of Sandstone	9/15 - 12/31	Unl.	No Data				0
City of St. Cloud	9/15 - 12/31	50	0	3	16	2	21
City of Taylors Falls	9/15 - 12/31	Unl.	0	0	1	3	4
City of Mankato	10/20-12/31	40	5	0	20	0	25
City of Granite Falls	9/15 - 12/31	10	0	0	5	0	5
City of Red Wing	9/15 - 12/31	117**	14	10	33	6	63
City of Ortonville	10/1 - 12/31	30	2	1	16	0	19
City of Canby	9/15 - 12/31	20	0	0	4	0	4
City of Bemidji	9/15 - 12/31	20	No Data				0
Camp Ripley - Youth	10/5 - 10/7	150	5	7	6	2	20
Lake Alexander Preserve	10/5-10/7	20	0	0	1	1	2
Arden Hills - Site A	10/18-10/19	30	No Data				0
Arden Hills - Site B	10/20-10/21	30	No Data				0

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

**Total number of hunters. Permits were unlimited.

Table 12. Free Landowner Archery Harvest by Permit Area, 2007.

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
104	0	1	0	1
105	0	1	0	1
107	0	2	0	2
110	0	0	1	1
156	0	1	0	1
167	0	1	0	1
175	0	0	1	1
182	0	1	0	1
183	0	1	0	1
184	0	0	1	1
197	0	1	0	1
209	0	1	0	1
213	0	1	1	2
221	0	1	0	1
227	0	1	1	2
240	1	2	0	3
244	0	1	0	1
245	0	1	1	2
248	0	1	0	1
249	1	0	0	1
264	0	1	0	1
341	0	1	0	1
342	0	4	0	4
343	2	3	1	6
345	0	2	0	2
349	0	1	0	1
TOTAL	4	30	7	41

Table 13. Muzzleloader Harvest by Permit Area, 2007.
Includes Regular, Muzzleloader, Youth, All-Season, and Bonus permits.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
101	15	2	28	4	49
104	15	9	39	3	66
105	32	10	56	15	113
107	27	7	53	2	89
110	7	1	23	3	34
111	15	6	15	6	42
114	1	0	1	0	2
115	35	18	82	14	149
116	8	0	7	1	16
122	1	0	5	0	6
126	11	5	35	3	54
127	1	1	1	0	3
152	6	2	6	1	15
154	20	9	50	12	91
156	22	17	56	8	103
157	35	28	97	30	190
159	16	4	55	9	84
167	10	8	33	6	57
168	16	8	32	8	64
170	45	46	150	39	280
172	31	25	66	14	136
174	16	10	26	8	60
175	18	3	37	5	63
178	26	18	72	10	126
180	19	7	43	5	74
181	29	15	64	26	134
182	6	1	17	3	27
183	23	6	46	6	81
184	66	33	179	40	318
197	14	4	21	4	43
199	2	0	1	0	3
201	4	1	1	3	9
208	9	4	14	3	30
209	21	8	34	8	71
210	28	12	58	11	109
213	66	25	132	31	254
214	34	36	90	33	193
215	39	12	42	5	98
218	34	9	33	9	85
219	27	16	27	9	79
221	41	26	85	24	176
222	36	19	55	17	127
223	31	18	33	4	86
224	0	1	1	1	3
225	28	24	84	15	151
227	40	32	74	19	165
229	6	7	43	2	58
235	10	1	4	1	16
236	35	29	88	10	162
239	50	26	84	27	187
240	60	39	116	31	246
241	42	40	119	33	234
242	16	26	75	21	138
243	33	18	72	21	144
244	95	51	165	46	357
245	73	37	130	40	280
246	36	15	92	18	161
247	22	18	65	11	116
248	39	16	39	12	106
249	38	20	53	18	129
251	2	1	7	0	10
256	34	11	46	9	100
257	23	4	31	11	69
260	48	18	77	16	159
261	15	7	36	7	65
262	15	1	5	1	22
263	15	1	18	0	34
264	37	12	34	7	90
265	25	14	43	16	98
266	29	2	5	2	38
267	21	6	20	10	57
268	11	3	14	4	32
297	10	3	16	3	32
298	12	5	24	5	46
338	17	6	35	6	64
339	6	1	17	2	26
341	35	16	65	10	126
342	19	20	53	14	106
343	40	44	149	30	263
344	13	1	12	3	29
345	19	13	58	6	96
346	50	30	132	23	235
347	29	33	142	29	233
348	40	29	159	32	260
349	67	34	179	32	312
412	28	3	17	1	49
416	26	4	25	4	59
417	76	20	61	9	166
420	45	3	8	4	60
421	13	1	2	0	16

Table 13. (Continued).

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
422	9	1	10	1	21
423	19	6	4	2	31
424	37	3	23	3	66
425	18	1	8	1	28
426	21	3	9	2	35
427	23	4	7	1	35
428	29	7	16	2	54
431	22	5	25	1	53
433	56	6	49	5	116
435	24	2	19	2	47
440	35	1	23	2	61
442	76	26	71	8	181
443	21	7	28	3	59
446	23	1	15	3	42
447	13	4	12	4	33
448	23	5	19	2	49
449	38	10	44	5	97
450	18	0	8	1	27

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
451	55	8	40	7	110
452	17	2	14	3	36
453	51	6	33	3	93
454	71	16	65	2	154
455	7	1	3	1	12
456	30	6	37	5	78
457	26	3	16	1	46
458	27	6	23	7	63
459	46	11	47	11	115
461	38	21	74	14	147
462	31	16	58	16	121
463	19	2	12	2	35
464	23	13	41	2	79
465	26	7	28	5	66
466	50	15	102	10	177
467	46	18	68	19	151
601	38	17	59	12	126
TOTAL	3,507	1,495	5,904	1,232	12,138

Table 14. Muzzleloader Harvest using Bonus Permits by Permit Area, 2007.

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
101	0	1	0	1
104	0	1	0	1
105	1	9	2	12
107	1	5	0	6
110	0	4	1	5
111	1	2	0	3
115	1	5	1	7
122	0	1	0	1
126	0	9	1	10
152	1	0	0	1
154	1	4	0	5
156	3	10	2	15
157	5	21	10	36
159	3	14	0	17
167	0	4	1	5
168	2	1	0	3
170	9	40	10	59
172	5	9	0	14
174	1	1	1	3
175	0	2	1	3
178	5	8	3	16
180	1	7	2	10
181	2	10	3	15
182	0	3	0	3
183	1	2	0	3
184	6	39	7	52
197	0	2	2	4
201	1	0	0	1
208	1	1	1	3
209	2	5	0	7
210	5	14	3	22
213	2	6	3	11
214	5	6	10	21
221	9	18	5	32
222	3	5	2	10
223	2	2	0	4
225	4	19	5	28
227	4	9	4	17
229	0	5	0	5

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
235	0	1	1	2
236	6	19	1	26
239	3	3	4	10
240	6	17	6	29
241	7	25	6	38
243	3	15	4	22
244	12	34	8	54
245	6	15	1	22
246	1	7	2	10
247	1	6	2	9
248	1	8	3	12
249	2	5	2	9
251	0	1	0	1
256	2	8	2	12
257	1	7	3	11
260	4	17	6	27
261	1	13	3	17
263	0	1	0	1
264	0	3	0	3
265	2	6	3	11
267	4	3	2	9
268	0	0	0	0
297	0	3	0	3
298	0	1	1	2
338	1	2	0	3
341	3	10	3	16
342	0	8	2	10
343	9	38	6	53
345	0	11	1	12
346	10	33	9	52
347	3	33	6	42
348	8	33	8	49
349	11	36	14	61
461	3	9	0	12
462	1	7	1	9
464	2	1	0	3
465	1	5	0	6
466	3	15	1	19
467	5	8	2	15
601	5	10	3	18
TOTAL	214	781	196	1,191

Table 15. Summary of Muzzleloader Special Hunts, 2007.
Includes Regular, Youth, All-Season, and Bonus Permits.

Area	Dates	Permits Issued	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
935 - Jay Cooke SP ¹	11/24 - 11/28	120*	25	11	34	8	78
936 - Crow Wing SP ¹	11/30 - 12/2	40*	5	4	3	4	16
937 - Lake Shetek SP ¹	12/1 - 12/2	25**	0	1	0	3	4
938 - Sibley SP	12/1 - 12/2	40**	0	1	5	1	7
939 - Myre Big Island SP ¹	11/24 - 11/25	40**	0	7	22	1	30
940 - Lake Louise SP***	11/24 - 11/25	25	2	2	3	1	8
941 - Interstate SP ¹	11/29 - 12/2	15**	0	0	0	0	0
942 - Nerstrand Big Woods SP ¹	11/24 - 11/25	50*	9	6	15	5	35
943 - Vermillion Highlands WMA ¹	11/24 - 12/9	20*	2	1	2	1	6
TOTAL			43	33	84	24	143

¹ Bonus permits available *Either Sex **Antlerless Only ***Earn-A-Buck

Table 16. Free Landowner Muzzleloader Harvest by Permit Area, 2007.

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
126	0	1	0	1
154	0	1	0	1
157	0	0	1	1
170	0	2	0	2
175	0	1	0	1
221	0	1	0	1
239	1	0	1	2
241	0	1	0	1
243	0	1	0	1
244	0	2	0	2
246	0	1	0	1
256	1	0	1	2
268	0	1	0	1
297	0	0	1	1
338	0	1	0	1
341	0	1	0	1
342	0	2	0	2
343	0	2	0	2
345	0	1	0	1
346	1	1	0	2
348	0	1	1	2
349	0	3	0	3
461	0	1	0	1
462	0	2	0	2
Total	3	27	5	35

Table 17. Summary of Youth Firearm Hunts and NW Youth Season, 2007.

Area	Dates	Permits Issued	Harvest				Total
			Adult Male	Fawn Male	Adult Female	Fawn Female	
956 - St. Croix SP	10/27 - 10/28	100	7	4	7	6	24
957 - Rydell NWR	10/20 - 10/21	20	No Data				0
958 - Savanna Portage SP	10/27 - 10/28	15	3	3	3	0	9
959 - Buffalo River SP	10/20 - 10/21	10	No Data				0
954 - Lake Bemidji SP	10/20 - 10/21	25	1	1	0	0	2
999 - Whitewater Game Refuge	10/18 - 10/21	75	5	1	6	0	12

Northwest Youth Season – October 20-21, unlimited permits.

Permit Area	Fawn Male	Adult Female	Fawn Female	Total
101	2	15	0	17
105	5	24	4	33
111	0	9	2	11
114	0	1	0	1
201	1	3	0	4
203	0	1	0	1
208	3	8	3	14
209	3	1	1	5
256	0	2	1	3
257	0	1	2	3
260	1	15	5	21
261	1	1	0	2
263	3	10	1	14
264	3	19	3	25
267	1	8	1	10
268	1	16	1	18
Total	24	134	24	182

Table 18. Firearms All-Season Deer Harvest by Permit Area, 2007.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
101	68	21	81	27	197
104	119	26	132	20	297
105	129	55	224	42	450
107	167	49	146	21	383
110	95	44	133	45	317
111	103	26	90	14	233
114	6	2	4	0	12
115	197	55	183	25	460
116	12	2	2	0	16
122	45	11	24	8	88
126	45	7	41	6	99
127	8	0	5	2	15
152	18	9	28	8	63
154	170	58	230	36	494
156	158	75	258	91	582
157	225	142	368	121	856
159	118	53	194	44	409
167	104	28	152	30	314
168	160	53	176	32	421
170	330	162	488	150	1130
172	223	91	276	80	670
174	112	35	139	33	319
175	123	40	124	14	301
178	215	74	230	53	572
180	109	29	140	18	296
181	134	56	205	40	435
182	27	9	36	10	82
183	147	45	157	34	383
184	422	273	754	251	1700
197	157	36	124	31	348
199	5	1	2	0	8
Zone 1 Total	3,951	1,567	5,146	1,286	11,950

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	16	1	11	3	31
203	8	1	2	0	11
208	26	7	45	10	88
209	67	41	144	32	284
210	115	47	155	59	376
213	282	123	399	88	892
214	221	153	414	140	928
215	135	16	58	15	224
218	116	17	65	13	211
219	127	6	46	15	194
221	148	93	268	97	606
222	119	90	231	66	506
223	87	32	83	29	231
224	17	4	14	7	42
225	124	64	213	47	448
227	109	48	151	50	358
229	51	26	54	21	152
235	9	0	6	2	17
236	90	31	100	27	248
236	90	31	100	27	248
239	232	86	322	78	718
240	247	182	528	195	1152
241	243	154	400	111	908
242	61	53	185	49	348
243	145	97	259	66	567
244	252	208	530	202	1192
245	215	109	340	90	754
246	204	91	287	101	683
247	101	40	103	29	273
248	63	39	126	28	256
249	151	67	207	51	476
251	13	7	20	7	47
256	66	23	114	23	226
257	48	26	90	19	183
260	79	29	161	23	292
261	28	10	72	3	113
262	25	3	5	2	35
263	57	12	55	10	134
264	80	28	85	11	204
265	82	38	181	44	345
266	79	5	20	6	110
267	34	16	74	12	136
268	46	21	41	5	113
287	17	14	42	16	89
297	28	13	33	10	84
Zone 2 Total	4,553	2,202	6,839	1,939	15,533

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
338	41	1	8	1	51
339	30	1	2	0	33
341	95	7	18	6	126
342	81	2	10	1	94
343	117	26	88	8	239
344	44	2	5	1	52
345	65	7	49	6	127
346	132	38	106	20	296
347	135	37	155	25	352
348	101	17	116	15	249
349	146	35	174	36	391
Zone 3 Total	987	173	731	119	2,010

Table 18. (Continued).

Zone 4											
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
412	81	12	39	7	139	447	23	2	3	0	28
416	105	5	26	2	138	448	38	3	8	0	49
417	239	10	47	12	308	449	56	4	9	3	72
420	54	9	34	7	104	450	39	0	1	0	40
421	42	4	11	2	59	451	42	2	8	2	54
422	52	3	2	3	60	452	29	2	17	0	48
423	35	4	0	1	40	453	49	6	6	1	62
424	71	2	3	1	77	454	69	5	21	0	95
425	27	1	2	1	31	455	12	2	6	0	20
426	46	3	3	0	52	456	66	6	23	1	96
427	49	2	10	0	61	457	57	1	12	2	72
428	87	11	19	4	121	458	53	3	6	1	63
431	45	2	5	3	55	459	102	4	14	10	130
433	85	6	24	2	117	461	145	40	158	49	392
435	59	1	8	1	69	462	175	60	156	42	433
440	72	5	20	2	99	463	54	11	26	1	92
442	142	8	38	4	192	464	78	22	85	16	201
443	37	5	14	2	58	465	69	32	80	14	195
446	39	4	7	2	52	466	161	36	181	23	401
						467	135	32	168	28	363
Zone 4 Total							2,819	370	1,300	249	4,738

Special Hunts					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
901	3	0	1	0	4
902	17	6	40	7	70
903	3	1	0	1	5
904	1	0	0	0	1
905	2	0	0	0	2
906	0	1	3	2	6
907	0	0	3	0	3
909	0	0	1	0	1
912	7	4	11	10	32
913	0	2	4	0	6
914	2	2	0	0	4
915	0	0	2	1	3
916	10	13	27	9	59
918	1	0	0	0	1
919	2	1	1	0	4
922	0	1	0	0	1
926	0	1	0	0	1
927	6	2	12	4	24
928	0	0	2	1	3
929	4	1	2	0	7
930	0	0	5	1	6
931	1	0	1	0	2
932	0	1	1	3	5
933	6	3	9	6	24
Special Hunt Total	65	39	125	45	274

Metro					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
601	100	32	97	21	250

GRAND TOTAL	12,475	4,383	14,238	3,659	34,755
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Table 19. Archery All-Season Deer Harvest by Permit Area, 2007.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
101	6	1	9	0	16
104	4	2	5	2	13
105	9	4	34	5	52
107	8	2	13	0	23
110	3	4	18	3	28
111	4	1	5	1	11
114	1	0	3	0	4
115	9	3	16	1	29
116	1	0	1	0	2
122	1	1	4	0	6
126	6	0	7	2	15
152	2	0	1	1	4
154	16	5	35	8	64
156	13	10	48	7	78
157	31	22	98	15	166
159	16	5	34	6	61
167	4	2	14	1	21
168	13	0	17	6	36
170	44	22	128	13	207
172	29	12	52	4	97
174	5	4	31	1	41
175	17	4	18	2	41
178	7	10	60	3	80
180	21	7	46	2	76
181	28	12	65	9	114
182	26	15	51	7	99
183	7	4	20	7	38
184	35	32	143	26	236
197	5	3	15	2	25
199	2	0	0	0	2
Zone 1 Total	373	187	991	134	1,685

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
338	16	5	18	5	44
339	10	1	15	0	26
341	16	4	23	1	44
342	8	4	7	1	20
343	41	11	103	8	163
344	9	1	4	1	15
345	20	2	41	4	67
346	28	8	59	9	104
347	31	10	84	11	136
348	32	8	44	7	91
349	31	11	53	7	102
Zone 3 Total	242	65	451	54	812

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	1	0	0	0	1
208	0	0	4	0	4
209	7	2	13	1	23
210	7	0	37	5	49
213	44	15	99	12	170
214	32	35	104	19	190
215	27	2	17	3	49
218	25	5	23	6	59
219	22	4	27	7	60
221	34	29	84	22	169
222	23	17	52	9	101
223	42	12	65	9	128
224	1	0	6	0	7
225	37	15	38	10	100
227	49	20	114	27	210
229	8	5	33	5	51
235	1	2	1	0	4
236	38	12	70	16	136
239	29	12	61	5	107
239	29	12	61	5	107
240	48	19	149	25	241
241	27	22	100	17	166
242	25	18	69	13	125
243	18	11	84	15	128
244	33	26	144	26	229
245	24	13	47	11	95
246	19	15	44	8	86
247	17	8	29	3	57
248	13	8	33	2	56
249	15	6	33	9	63
251	1	0	2	0	3
256	11	4	24	4	43
257	3	3	23	4	33
260	16	2	29	1	48
261	7	0	7	1	15
262	3	1	4	0	8
263	4	0	3	0	7
264	7	1	10	0	18
265	13	3	23	1	40
266	2	0	2	0	4
267	6	1	13	3	23
268	3	0	4	0	7
297	3	0	2	1	6
Zone 2 Total	774	360	1,787	305	3,226

Table 19. (Continued).

Zone 4											
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
412	10	2	3	2	17	447	4	0	2	0	6
416	2	0	6	1	9	448	5	0	2	0	7
417	25	4	29	0	58	449	8	1	9	1	19
420	14	0	1	1	16	450	5	2	2	0	9
421	4	0	6	1	11	451	4	1	4	1	10
422	4	1	0	0	5	452	7	0	2	1	10
423	4	0	1	0	5	453	2	1	0	0	3
424	3	0	3	0	6	454	4	1	7	0	12
425	4	0	0	0	4	455	0	0	1	0	1
426	6	2	2	0	10	456	7	0	6	0	13
427	11	2	3	0	16	457	8	0	1	2	11
428	19	4	16	3	42	458	6	3	4	1	14
431	6	0	1	0	7	459	7	2	7	0	16
433	10	1	11	1	23	461	27	10	42	1	80
435	16	0	0	0	16	462	21	8	32	5	66
440	12	1	13	0	26	463	11	3	1	0	15
442	27	1	23	2	53	464	12	1	14	3	30
443	11	1	8	0	20	465	8	1	21	2	32
446	1	2	4	0	7	466	22	5	57	4	88
						467	24	5	29	1	59
Zone 4 Total							381	65	373	33	852

Metro					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
601	96	30	173	26	926

GRAND TOTAL	1,866	707	3,775	552	6,900
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Table 20. Muzzleloader All-Season Deer Harvest by Permit Area, 2007.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
101	14	2	20	1	37
104	15	9	35	2	61
105	25	8	41	13	87
107	24	3	48	2	77
110	7	0	19	2	28
111	9	5	12	6	32
114	1	0	1	0	2
115	31	14	70	13	128
116	6	0	7	1	14
122	1	0	3	0	4
126	11	5	23	2	41
127	0	1	1	0	2
152	5	1	5	0	11
154	17	7	42	11	77
156	20	12	46	6	84
157	30	21	72	19	142
159	15	1	40	7	63
167	8	8	28	5	49
168	15	6	29	8	58
170	41	35	104	28	208
172	23	19	54	13	109
174	16	6	23	6	51
175	16	3	34	4	57
178	22	13	61	7	103
180	16	6	31	3	56
181	28	13	51	21	113
182	6	1	13	3	23
183	21	4	36	6	67
184	53	27	130	31	241
197	12	4	19	2	37
199	2	0	1	0	3
Zone 1 Total	510	234	1,099	222	2,065

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
338	9	2	29	5	45
339	6	1	13	1	21
341	22	8	44	6	80
342	12	15	29	8	64
343	30	27	98	20	175
344	9	0	1	0	10
345	14	12	44	5	75
346	35	19	93	13	160
347	18	27	100	20	165
348	35	16	115	22	188
349	43	21	130	17	211
Zone 3 Total	233	148	696	117	1,194

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	3	0	1	3	7
208	6	1	12	1	20
209	18	6	28	6	58
210	20	6	38	7	71
213	64	23	115	26	228
214	28	25	82	22	157
215	34	6	26	3	69
218	28	7	24	7	66
219	16	12	21	5	54
221	37	16	60	19	132
222	33	15	45	14	107
223	23	15	29	4	71
224	0	1	0	0	1
225	23	16	58	8	105
227	32	27	65	14	138
229	6	7	34	2	49
235	6	1	2	0	9
236	32	21	64	9	126
239	42	20	78	20	160
240	52	32	96	24	204
241	38	32	91	26	187
242	12	18	53	11	94
243	30	12	51	15	108
244	86	37	127	37	287
245	58	28	94	36	216
246	31	11	73	13	128
247	17	16	49	9	91
248	37	15	29	8	89
249	34	18	47	15	114
251	2	1	5	0	8
256	30	6	33	4	73
257	20	2	24	7	53
260	32	14	59	9	114
261	10	6	21	4	41
262	11	0	0	1	12
263	12	1	16	0	29
264	32	11	29	7	79
265	20	12	37	13	82
266	21	2	5	2	30
267	18	2	17	7	44
268	10	3	12	3	28
297	8	2	12	2	24
298	10	5	23	4	42
Zone 2 Total	1,082	511	1,785	427	3,805

Table 20. Muzzleloader All-Season Deer Harvest by Permit Area, 2007.

Zone 4											
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
412	24	3	13	1	41	447	6	1	1	0	8
416	21	2	7	3	33	448	14	3	7	0	24
417	61	8	24	4	97	449	21	4	3	0	28
420	41	2	6	2	51	450	13	0	4	0	17
421	10	0	1	0	11	451	29	2	6	0	37
422	7	1	3	1	12	452	11	2	1	2	16
423	16	1	1	0	18	453	27	0	7	1	35
424	22	0	2	0	24	454	37	1	11	0	49
425	12	0	2	0	14	455	3	1	1	1	6
426	12	0	0	0	12	456	16	2	18	2	38
427	17	2	1	0	20	457	19	1	4	0	24
428	23	4	8	1	36	458	14	3	3	2	22
431	15	0	0	0	15	459	28	5	4	1	38
433	29	2	7	1	39	461	29	17	59	14	119
435	15	1	4	0	20	462	22	14	45	14	95
440	23	0	4	0	27	463	12	1	8	1	22
442	54	8	20	2	84	464	22	9	37	2	70
443	11	1	8	1	21	465	21	6	17	4	48
446	18	1	6	0	25	466	32	11	80	7	130
						467	28	12	47	15	102
Zone 4 Total							835	131	480	82	1,528

Metro					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
601	28	11	44	9	92

Special Hunts					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
935	21	8	28	8	65
936	4	3	3	3	13
938	0	1	3	0	4
939	0	5	5	0	10
940	2	2	1	1	6
942	7	1	12	1	21
943	2	1	1	1	5
Special Hunts Total	36	21	53	14	124

GRAND TOTAL	2,724	1,056	4,157	871	8,808
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Table 21. Total All-Season Deer Harvest by Permit Area, 2007.

Zone 1					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
101	88	24	110	28	250
104	138	37	172	24	371
105	163	67	299	60	589
107	199	54	207	23	483
110	105	48	170	50	373
111	116	32	107	21	276
114	8	2	8	0	18
115	237	72	269	39	617
116	19	2	10	1	32
122	47	12	31	8	98
126	62	12	71	10	155
127	8	1	6	2	17
152	25	10	34	9	78
154	203	70	307	55	635
156	191	97	352	104	744
157	286	185	538	155	1,164
159	149	59	268	57	533
167	116	38	194	36	384
168	188	59	222	46	515
170	415	219	720	191	1,545
172	275	122	382	97	876
174	133	45	193	40	411
175	156	47	176	20	399
178	244	97	351	63	755
180	146	42	217	23	428
181	190	81	321	70	662
182	59	25	100	20	204
183	175	53	213	47	488
184	510	332	1027	308	2,177
197	174	43	158	35	410
199	9	1	3	0	13
Zone 1 Total	4,834	1,988	7,236	1,642	15,700

Zone 3					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
338	66	8	55	11	140
339	46	3	30	1	80
341	133	19	85	13	250
342	101	21	46	10	178
343	188	64	289	36	577
344	62	3	10	2	77
345	99	21	134	15	269
346	195	65	258	42	560
347	184	74	339	56	653
348	168	41	275	44	528
349	220	67	357	60	704
Zone 3 Total	1,462	386	1,878	290	4,016

Zone 2					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
201	20	1	12	6	39
203	8	1	2	0	11
208	32	8	61	11	112
209	92	49	185	39	365
210	142	53	230	71	496
213	390	161	613	126	1,290
214	281	213	600	181	1,275
215	196	24	101	21	342
218	169	29	112	26	336
219	165	22	94	27	308
221	219	138	412	138	907
222	175	122	328	89	714
223	152	59	177	42	430
224	18	5	20	7	50
225	184	95	309	65	653
227	190	95	330	91	706
229	65	38	121	28	252
235	16	3	9	2	30
236	160	64	234	52	510
239	303	118	461	103	985
240	347	233	773	244	1,597
241	308	208	591	154	1,261
242	98	89	307	73	567
243	193	120	394	96	803
244	371	271	801	265	1,708
245	297	150	481	137	1,065
246	254	117	404	122	897
247	135	64	181	41	421
248	113	62	188	38	401
249	200	91	287	75	653
251	16	8	27	7	58
256	107	33	171	31	342
257	71	31	137	30	269
260	127	45	249	33	454
261	45	16	100	8	169
262	39	4	9	3	55
263	73	13	74	10	170
264	119	40	124	18	301
265	115	53	241	58	467
266	102	7	27	8	144
267	58	19	104	22	203
268	59	24	57	8	148
287	17	14	42	16	89
297	39	15	47	13	114
298	117	34	129	35	315
Zone 2 Total	6,397	3,059	10,356	2,670	22,482

Table 21. Continued.

Zone 4					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
412	115	17	55	10	197
416	128	7	39	6	180
417	325	22	100	16	463
420	109	11	41	10	171
421	56	4	18	3	81
422	63	5	5	4	77
423	55	5	2	1	63
424	96	2	8	1	107
425	43	1	4	1	49
426	64	5	5	0	74
427	77	6	14	0	97
428	129	19	43	8	199
431	66	2	6	3	77
433	124	9	42	4	179
435	90	2	12	1	105
440	107	6	37	2	152
442	223	17	81	8	329
443	59	7	30	3	99
446	58	7	17	2	84
447	33	3	6	0	42
448	57	6	17	0	80
449	85	9	21	4	119
450	57	2	7	0	66
451	75	5	18	3	101
452	47	4	20	3	74
453	78	7	13	2	100
454	110	7	39	0	156
455	15	3	8	1	27
456	89	8	47	3	147
457	84	2	17	4	107
458	73	9	13	4	99
459	137	11	25	11	184
461	201	67	259	64	591
462	218	82	233	61	594
463	77	15	35	2	129
464	112	32	136	21	301
465	98	39	118	20	275
466	215	52	318	34	619
467	187	49	244	44	524
Zone 4 Total	4,035	566	2,153	364	7,118

Special Hunts					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
901	3	0	1	0	4
902	17	6	40	7	70
903	3	1	0	1	5
904	1	0	0	0	1
905	2	0	0	0	2
906	0	1	3	2	6
907	0	0	3	0	3
909	0	0	1	0	1
910	0	0	1	0	1
912	7	4	11	10	32
913	0	2	4	0	6
914	2	2	0	0	4
915	0	0	2	1	3
916	10	13	27	9	59
918	1	0	0	0	1
919	2	1	1	0	4
922	0	1	0	0	1
926	0	1	0	0	1
927	6	2	12	4	24
928	0	0	2	1	3
929	4	1	2	0	7
930	0	0	5	1	6
931	1	0	1	0	2
932	0	1	1	3	5
933	6	3	9	6	24
935	21	8	28	8	65
936	4	3	3	3	13
938	0	1	3	0	4
939	0	5	5	0	10
940	2	2	1	1	6
942	7	1	12	1	21
943	2	1	1	1	5
950	0	1	3	0	4
953	26	9	47	15	97
954	34	13	58	8	113
956	1	0	1	0	2
999	2	0	1	0	3
Special Hunts Total	164	83	289	82	618

Metro					
Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
601	224	73	314	56	667

GRAND TOTAL	17,116	6,155	22,226	5,104	50,601
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Table 22. Total Deer Harvest by Permit Area, 2007. Includes all license types, permits, and special hunts.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
101	551	190	649	173	1,563	243	1066	511	1462	419	3,458
104	1279	224	887	167	2,557	244	2080	1095	2819	1108	7,102
105	1206	378	1431	325	3,340	245	1932	746	2027	688	5,393
107	1921	335	1387	231	3,874	246	1935	707	2039	658	5,339
110	784	201	749	201	1,935	247	802	273	785	204	2,064
111	830	134	539	105	1,608	248	487	211	536	153	1,387
114	83	7	34	3	127	249	1246	479	1228	352	3,305
115	2228	365	1412	245	4,250	251	91	32	102	28	253
116	261	16	66	7	350	256	645	197	739	170	1,751
122	658	85	318	57	1,118	257	469	164	565	161	1,359
126	686	52	377	35	1,150	260	789	182	887	167	2,025
127	148	6	55	6	215	261	264	63	330	70	727
152	149	44	153	31	377	262	256	19	80	13	368
154	1905	504	1655	453	4,517	263	458	72	295	57	882
156	2068	617	1932	547	5,164	264	809	192	614	163	1,778
157	2832	1069	3044	883	7,828	265	622	212	781	216	1,831
159	1609	435	1455	348	3,847	266	495	42	151	26	714
167	821	234	772	150	1,977	267	309	90	321	74	794
168	1525	401	1169	258	3,353	268	348	87	263	49	747
170	3139	1025	3285	897	8,346	287	92	45	126	43	306
172	1866	606	1950	455	4,877	297	251	41	169	50	511
174	1394	380	1175	271	3,220	298	753	187	508	162	1,610
175	2223	428	1464	304	4,419	338	414	78	266	46	804
178	2966	746	2340	510	6,562	339	365	68	217	44	694
180	1866	292	1348	213	3,719	341	1111	287	844	198	2,440
181	2240	563	1785	417	5,005	342	909	204	621	166	1,900
182	544	167	724	164	1,599	343	1158	381	1308	246	3,093
183	1745	385	1325	292	3,747	344	553	68	168	36	825
184	3553	1683	4372	1391	10,999	345	708	181	720	122	1,731
197	1108	232	740	168	2,248	346	1375	413	1479	361	3,628
199	150	15	38	3	206	347	915	280	1081	211	2,487
201	93	17	68	21	199	348	1034	267	1167	237	2,705
203	88	7	29	3	127	349	1707	488	2046	492	4,733
208	239	60	213	43	555	412	475	76	275	58	884
209	644	226	763	216	1,849	416	572	43	235	32	882
210	1084	401	1158	398	3,041	417	1159	110	497	89	1,855
213	1875	568	1842	496	4,781	420	358	38	132	40	568
214	1371	781	1899	727	4,778	421	205	24	76	8	313
215	977	190	587	149	1,903	422	229	12	37	8	286
218	801	153	467	133	1,554	423	192	15	37	7	251
219	538	76	291	74	979	424	388	19	80	11	498
221	1131	530	1444	504	3,609	425	157	6	39	8	210
222	997	422	1186	363	2,968	426	291	23	58	13	385
223	683	185	556	157	1,581	427	314	22	92	9	437
224	132	33	137	38	340	428	415	54	184	38	691
225	1502	500	1425	461	3,888	431	245	15	95	8	363
227	1106	372	1137	330	2,945	433	525	52	231	33	841
229	283	98	309	81	771	435	450	25	119	13	607
235	75	24	61	19	179	440	500	39	215	31	785
236	1085	302	1029	246	2,662	442	870	82	394	64	1,410
239	1690	540	1539	447	4,216	443	268	42	198	30	538
240	1891	751	2071	681	5,394	446	237	22	103	17	379
241	1498	767	1853	669	4,787	447	238	23	104	12	377
242	688	329	979	263	2,259	448	334	26	136	22	518

Table 22. Continued.

Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total	Permit Area	Adult Male	Fawn Male	Adult Female	Fawn Female	Total
449	431	40	200	28	699	911	1	0	1	1	3
450	247	16	68	14	345	912	19	16	36	32	103
451	403	32	167	32	634	913	0	5	11	2	18
452	286	22	169	20	497	914	18	7	23	6	54
453	333	25	143	13	514	915	0	1	2	1	4
454	599	58	276	29	962	916	23	30	55	20	128
455	77	13	38	1	129	918	4	0	2	0	6
456	429	40	232	31	732	919	7	9	11	3	30
457	376	26	155	22	579	920	0	1	4	0	5
458	357	29	138	27	551	921	10	22	31	24	87
459	503	47	238	45	833	922	13	14	28	9	64
461	490	130	508	119	1,247	923	11	12	21	13	57
462	598	169	530	121	1,418	924	0	3	10	0	13
463	301	33	148	18	500	925	2	8	18	2	30
464	297	67	256	43	663	926	14	11	50	20	95
465	278	71	264	43	656	927	16	14	27	14	71
466	642	118	616	86	1,462	928	1	1	4	1	7
467	544	123	524	83	1,274	929	6	6	5	2	19
601	1301	393	1468	273	3,435	930	0	5	19	7	31
901	6	1	2	0	9	931	1	0	3	0	4
902	65	60	142	51	318	932	0	1	6	6	13
903	6	3	12	4	25	933	10	7	20	7	44
904	2	0	4	0	6	935	25	11	34	8	78
905	4	1	2	0	7	936	5	4	3	4	16
906	6	3	12	2	23	937	0	1	0	3	4
907	0	1	3	0	4	938	0	1	5	1	7
908	0	0	2	0	2	939	0	7	22	1	30
909	1	0	5	0	6	940	2	2	3	1	8
910	0	0	4	0	4	942	9	6	15	5	35
						943	2	1	2	1	6
						950	5	7	6	2	20
						953	64	28	104	36	232
						954	79	30	117	21	247
						955	0	0	1	1	2
						956	7	4	7	6	24
						958	3	3	3	0	9
						999	5	1	6	0	12
TOTAL	108,623	30,081	96,795	24,935	260,434						

Table 23. Estimated firearm hunter numbers, density, and harvest by permit area, 2007.

Permit Area	Firearm Hunters	Area Size (sq mi)	Hunters/mile ²	Harvest/mile ²
101	1,892	496	3.8	2.4
104	4,529	2,078	2.2	1.2
105	4,086	740	5.5	3.8
107	7,181	1,896	3.8	1.9
110	2,553	300	8.5	6.0
111	3,298	1,437	2.3	1.1
114	182	123	1.5	0.9
115	8,155	1,867	4.4	2.2
116	902	1,164	0.8	0.3
122	2,086	619	3.4	1.7
126	1,936	943	2.1	1.1
127	568	561	1.0	0.4
152	1,052	61	17.2	5.6
154	8,744	760	11.5	5.5
156	8,863	825	10.7	5.8
157	12,808	889	14.4	7.4
159	6,882	568	12.1	6.1
167	3,800	432	8.8	4.3
168	7,354	723	10.2	4.4
170	13,151	1,311	10.0	5.7
172	9,177	451	20.4	10.0
174	6,485	835	7.8	3.6
175	8,386	1,249	6.7	3.4
178	9,736	1,259	7.7	4.8
180	6,013	983	6.1	3.4
181	6,788	709	9.6	6.2
182	1,506	269	5.6	2.8
183	7,465	663	11.3	5.3
184	13,895	1,231	11.3	7.3
197	4,630	975	4.8	2.2
199	472	148	3.2	1.3
201	373	161	2.3	1.1
203	320	118	2.7	1.1
208	1,106	379	2.9	1.3
209	2,319	639	3.6	2.3
210	4,125	615	6.7	3.9
213	8,751	1,057	8.3	3.9
214	6,542	557	11.8	6.7
215	5,803	701	8.3	2.3
218	4,694	884	5.3	1.5
219	2,708	392	6.9	1.9
221	4,875	642	7.6	4.1
222	4,471	413	10.8	5.7
223	2,682	377	7.1	2.9
224	704	47	15.1	6.6
225	6,337	618	10.2	4.8
227	4,342	471	9.2	3.9
229	1,377	287	4.8	2.0
235	453	32	14.1	3.7
236	3,381	372	9.1	4.3
239	7,105	922	7.7	4.1
240	6,986	642	10.9	7.3
239	7,105	922	7.7	4.1
240	6,986	642	10.9	7.3
241	5,055	417	12.1	8.9
242	2,642	215	12.3	7.8
243	5,019	314	16.0	8.5
244	8,149	583	14.0	9.3
245	8,765	583	15.0	8.3
246	9,399	772	12.2	6.3
247	3,413	229	14.9	7.6
248	1,942	212	9.2	5.1
249	5,408	502	10.8	5.9
251	565	55	10.2	4.3
256	2,432	653	3.7	2.1
257	1,728	412	4.2	2.7
260	2,236	1,249	1.8	1.3
261	1,030	795	1.3	0.7
262	960	677	1.4	0.5
263	1,943	512	3.8	1.6
264	3,280	669	4.9	2.4
265	1,990	494	4.0	3.1
266	1,919	617	3.1	1.1
267	1,127	472	2.4	1.4
268	1,223	229	5.3	3.0
287	555	46	12.1	6.6
297	1,194	438	2.7	1.1
298	3,236	618	5.2	2.5
338	1,849	454	4.1	1.3
339	1,670	394	4.2	1.3
341	4,630	611	7.6	3.2
342	3,508	350	10.0	4.6
343	4,626	662	7.0	3.0
344	2,442	189	12.9	3.8
345	2,907	326	8.9	4.2
346	4,076	319	12.8	8.4

Table 23. Continued.

Permit Area	Firearm Hunters	Area Size (sq mi)	Hunters/mile ²	Harvest/mile ²
347	3,370	434	7.8	4.3
348	3,922	332	11.8	6.4
349	5,877	492	11.9	7.5
412	2,808	572	4.9	1.4
416	2,971	543	5.5	1.4
417	5,660	813	7.0	1.8
420	1,462	650	2.2	0.7
421	1,036	748	1.4	0.4
422	864	632	1.4	0.4
423	858	531	1.6	0.4
424	1,740	764	2.3	0.5
425	743	779	1.0	0.2
426	1,382	614	2.3	0.5
427	1,439	838	1.7	0.4
428	2,223	550	4.0	0.9
431	904	355	2.5	0.7
433	2,309	401	5.8	1.6
435	2,239	575	3.9	0.9
440	2,294	662	3.5	1.0
442	3,747	802	4.7	1.2
443	1,442	386	3.7	1.0
446	1,125	344	3.3	0.9
447	1,244	675	1.8	0.5
448	1,447	446	3.2	1.0
449	1,957	625	3.1	0.8
450	967	816	1.2	0.3
451	1,304	686	1.9	0.7
452	1,021	636	1.6	0.7
453	1,124	728	1.5	0.5
454	2,238	840	2.7	0.9
455	254	95	2.7	1.1
456	1,556	711	2.2	0.8
457	1,634	666	2.5	0.7
458	1,459	715	2.0	0.6
459	2,093	974	2.1	0.7
461	2,475	480	5.2	1.9
462	2,532	511	5.0	2.1
463	1,387	452	3.1	0.9
464	1,326	377	3.5	1.4
465	1,079	385	2.8	1.3
466	2,689	930	2.9	1.2
467	1,951	774	2.5	1.2
601	2,121	1,633	1.3	0.8
Total	439,232	78,929	5.6	2.7

Table 24. Deer harvest per square mile by season, 2007.

Permit Area	Area Size (sq mi)	Archery Harvest/ mi2	Firearm Harvest/ mi2	Muzzleloader. Harvest/ mi2	EA Harvest/ mi2	Total Harvest/ mi2
101	496	0.1	2.4	0.1	0.3	2.9
104	2,078	0.0	1.2	0.0		1.2
105	740	0.2	3.8	0.2	0.4	4.5
107	1,896	0.1	1.9	0.0		2.0
110	300	0.3	6.0	0.1		6.4
111	1,437	0.0	1.1	0.0		1.1
114	123	0.1	0.9	0.0		1.0
115	1,867	0.0	2.2	0.1		2.3
116	1,164	0.0	0.3	0.0		0.3
122	619	0.1	1.7	0.0		1.8
126	943	0.1	1.1	0.1		1.2
127	561	0.0	0.4	0.0		0.4
152	61	0.3	5.6	0.2		6.2
154	760	0.3	5.5	0.1		5.9
156	825	0.4	5.8	0.1		6.3
157	889	0.6	7.4	0.2	0.6	8.8
159	568	0.5	6.1	0.1		6.8
167	432	0.1	4.3	0.1		4.6
168	723	0.2	4.4	0.1		4.6
170	1,311	0.5	5.7	0.2		6.4
172	451	0.5	10.0	0.3		10.8
174	835	0.2	3.6	0.1		3.9
175	1,249	0.1	3.4	0.1		3.5
178	1,259	0.3	4.8	0.1		5.2
180	983	0.4	3.4	0.1		3.8
181	709	0.6	6.2	0.2		7.1
182	269	3.0	2.8	0.1		5.9
183	663	0.3	5.3	0.1		5.7
184	1,231	0.6	7.3	0.3	0.8	8.9
197	975	0.1	2.2	0.0		2.3
199	148	0.1	1.3	0.0		1.4
201	161	0.0	1.1	0.1		1.2
203	118	0.0	1.1	0.0		1.1
208	379	0.0	1.3	0.1		1.4
209	639	0.2	2.3	0.1	0.3	2.9
210	615	0.2	3.9	0.2	0.6	4.9
213	1,057	0.4	3.9	0.2		4.5
214	557	0.7	6.7	0.3	0.9	8.6
215	701	0.2	2.3	0.1		2.7
218	884	0.2	1.5	0.1		1.8
219	392	0.4	1.9	0.2		2.5
221	642	0.6	4.1	0.3	0.6	5.6
222	413	0.6	5.7	0.3	0.6	7.2
223	377	1.0	2.9	0.2		4.2
224	47	0.7	6.6	0.1		7.3

Table 24. Continued.

Permit Area	Area Size (sq mi)	Archery Harvest/ mi2	Firearm Harvest/ mi2	Muzzleloader Harvest/ mi2	EA Harvest/ mi2	Total Harvest/ mi2
225	618	0.7	4.8	0.2	0.5	6.3
227	471	1.6	3.9	0.4	0.4	6.3
229	287	0.5	2.0	0.2		2.7
235	32	1.1	3.7	0.5		5.3
236	372	2.1	4.3	0.4	0.4	7.2
239	922	0.3	4.1	0.2		4.6
240	642	0.7	7.3	0.4		8.4
241	417	0.8	8.9	0.6	1.3	11.5
242	215	2.1	7.8	0.6		10.5
243	314	0.9	8.5	0.5	1.1	11.0
244	583	0.9	9.3	0.6	1.4	12.2
245	583	0.5	8.3	0.5		9.3
246	772	0.4	6.3	0.2		6.9
247	229	0.9	7.6	0.5		9.0
248	212	0.9	5.1	0.5		6.5
249	502	0.4	5.9	0.3		6.6
251	55	0.1	4.3	0.2		4.6
256	653	0.1	2.1	0.2	0.3	2.7
257	412	0.2	2.7	0.2	0.3	3.3
260	1,249	0.1	1.3	0.1	0.1	1.6
261	795	0.1	0.7	0.1	0.1	0.9
262	677	0.1	0.5	0.0		0.5
263	512	0.0	1.6	0.1		1.7
264	669	0.1	2.4	0.1		2.6
265	494	0.2	3.1	0.2	0.2	3.7
266	617	0.0	1.1	0.1		1.2
267	472	0.1	1.4	0.1		1.7
268	229	0.1	3.0	0.1		3.2
287	46	0.0	6.6	0.0		6.7
297	438	0.0	1.1	0.1		1.2
298	618	0.1	2.5	0.1		2.6
338	454	0.4	1.3	0.1		1.8
339	394	0.4	1.3	0.1		1.8
341	611	0.6	3.2	0.2		4.0
342	350	0.6	4.6	0.3		5.4
343	662	1.3	3.0	0.4		4.7
344	189	0.4	3.8	0.2		4.4
345	326	0.8	4.2	0.3		5.3
346	319	1.6	8.4	0.7	0.7	11.4
347	434	0.9	4.3	0.5		5.7
348	332	1.0	6.4	0.8		8.2
349	492	1.0	7.5	0.6	0.5	9.6
412	572	0.1	1.4	0.1		1.5
416	543	0.1	1.4	0.1		1.6
417	813	0.3	1.8	0.2		2.3

Table 24. Continued.

Permit Area	Area Size (sq mi)	Archery Harvest/ mi2	Firearm Harvest/ mi2	Muzzleloader Harvest/ mi2	EA Harvest/ mi2	Total Harvest/ mi2
420	650	0.1	0.7	0.1		0.9
421	748	0.0	0.4	0.0		0.4
422	632	0.0	0.4	0.0		0.5
423	531	0.0	0.4	0.1		0.5
424	764	0.0	0.5	0.1		0.7
425	779	0.0	0.2	0.0		0.3
426	614	0.1	0.5	0.1		0.6
427	838	0.1	0.4	0.0		0.5
428	550	0.2	0.9	0.1		1.3
431	355	0.1	0.7	0.1		1.0
433	401	0.2	1.6	0.3		2.1
435	575	0.1	0.9	0.1		1.1
440	662	0.1	1.0	0.1		1.2
442	802	0.3	1.2	0.2		1.8
443	386	0.2	1.0	0.2		1.4
446	344	0.1	0.9	0.1		1.1
447	675	0.0	0.5	0.0		0.6
448	446	0.0	1.0	0.1		1.2
449	625	0.1	0.8	0.2		1.1
450	816	0.0	0.3	0.0		0.4
451	686	0.1	0.7	0.2		0.9
452	636	0.1	0.7	0.1		0.8
453	728	0.1	0.5	0.1		0.7
454	840	0.1	0.9	0.2		1.1
455	95	0.1	1.1	0.1		1.4
456	711	0.1	0.8	0.1		1.0
457	666	0.1	0.7	0.1		0.9
458	715	0.1	0.6	0.1		0.8
459	974	0.1	0.7	0.1		0.9
461	480	0.4	1.9	0.3		2.6
462	511	0.4	2.1	0.2		2.8
463	452	0.1	0.9	0.1		1.1
464	377	0.2	1.4	0.2		1.8
465	385	0.3	1.3	0.2		1.7
466	930	0.2	1.2	0.2		1.6
467	774	0.2	1.2	0.2		1.6
601	1,633	1.2	0.8	0.1	0.04	2.1
Total	78,929	0.3	2.7	0.2	0.1	3.3

Table 25. 2007 Antlerless Lottery Distribution Report.

Permit Area Number	Preference Level	Applications			Winners	Permits Available	% Under-Subscribed
		Total	Rejected	Unsuccessful			
116	1	218	6	0	218	650	60.3%
	2	40	4	0	40		
		258	10	0	258		
199	1	135	3	0	135	150	6.7%
	2	5	1	0	5		
	3	0	1	0	0		
		140	5	0	140		
203	1	135	3	88	47	50	0.0%
	2	3	1	0	3		
		138	4	88	50		
215	1	2,755	223	824	1,931	2,000	0.0%
	2	56	4	0	56		
	3	11	2	0	11		
	4	1	0	0	1		
		2,823	229	824	1,999		
218	1	2,312	187	893	1,419	1,500	0.1%
	2	69	8	0	69		
	3	9	1	0	9		
	4	2	0	0	2		
		2,392	196	893	1,499		
219	1	977	89	208	769	800	1.3%
	2	19	5	2	17		
	3	4	1	0	4		
		1,000	95	210	790		
262	1	321	20	177	144	150	0.0%
	2	4	0	0	4		
	3	2	0	0	2		
		327	20	177	150		
266	1	715	49	231	484	500	0.0%
	2	13	1	0	13		
	3	3	0	0	3		
		731	50	231	500		
338A	1	210	7	146	64	100	0.0%
	2	32	3	0	32		
	3	2	1	0	2		
	4	2	0	0	2		
		246	11	146	100		
339A	1	216	11	123	93	100	1.0%
	2	6	1	0	6		
	3	1	1	0	0		
		223	13	123	99		
341A	1	568	22	253	315	350	0.0%
	2	32	9	0	32		
	3	2	3	0	2		
	4	0	1	0	0		
	5	1	1	0	1		
		603	36	253	350		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
116	1	218	6	0	218	650	60.3%
	2	40	4	0	40		
		258	10	0	258		
199	1	135	3	0	135	150	6.7%
	2	5	1	0	5		
	3	0	1	0	0		
		140	5	0	140		
203	1	135	3	88	47	50	0.0%
	2	3	1	0	3		
		138	4	88	50		
215	1	2,755	223	824	1931	2000	0.0%
	2	56	4	0	56		
	3	11	2	0	11		
	4	1	0	0	1		
		2,823	229	824	1999		
218	1	2,312	187	893	1,419	1,500	0.1%
	2	69	8	0	69		
	3	9	1	0	9		
	4	2	0	0	2		
		2,392	196	893	1,499		
219	1	977	89	208	769	800	1.3%
	2	19	5	2	17		
	3	4	1	0	4		
		1,000	95	210	790		
262	1	321	20	177	144	150	0.0%
	2	4	0	0	4		
	3	2	0	0	2		
		327	20	177	150		
266	1	715	49	231	484	500	0.0%
	2	13	1	0	13		
	3	3	0	0	3		
		731	50	231	500		
338A	1	210	7	146	64	100	0.0%
	2	32	3	0	32		
	3	2	1	0	2		
	4	2	0	0	2		
		246	11	146	100		
339A	1	216	11	123	93	100	1.0%
	2	6	1	0	6		
	3	1	1	0	0		
		223	13	123	99		
341A	1	568	22	253	315	350	0.0%
	2	32	9	0	32		
	3	2	3	0	2		
	4	0	1	0	0		
	5	1	1	0	1		
		603	36	253	350		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
342A	1	357	13	155	202	250	0.0%
	2	45	1	0	45		
	3	2	0	0	2		
	4	1	2	0	1		
	5	0	1	0	0		
		405	17	155	250		
344A	1	438	7	374	64	100	0.0%
	2	32	4	0	32		
	3	2	2	0	2		
	4	2	2	0	2		
		474	15	374	100		
344B	1	568	19	325	243	250	0.4%
	2	5	5	0	5		
	3	0	8	0	0		
	4	1	1	0	1		
		574	33	325	249		
412A	1	673	48	0	673	1,200	42.1%
	2	21	0	0	21		
	3	1	0	0	1		
		695	48	0	695		
412B	1	259	15	0	359	1200	69.8%
	2	3	0	0	3		
	3	1	0	0	1		
		363	15	0	363		
416A	1	798	31	574	224	250	0.0%
	2	22	17	0	22		
	3	4	0	0	4		
		824	48	574	250		
416B	1	437	13	196	241	250	0.0%
	2	9	7	0	9		
		446	20	196	250		
417A	1	1,480	52	1,243	237	400	0.0%
	2	157	28	0	157		
	3	3	9	0	3		
	4	2	1	0	2		
	5	1	0	0	1		
		1,643	90	1,243	400		
417B	1	900	34	533	367	400	0.0%
	2	28	15	0	28		
	3	5	1	0	5		
		933	50	533	400		
420A	1	353	30	59	294	300	0.0%
	2	6	0	0	6		
		359	30	59	300		
420B	1	136	13	59	77	200	58.5%
	2	6	0	0	6		
		142	13	59	83		
421A	1	270	27	124	146	150	0.0%
	2	3	0	0	3		
	3	1	0	0	1		
		274	27	124	150		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
421B	1	91	5	44	47	50	0.0%
	2	3	0	0	3		
		94	5	44	50		
422A	1	143	11	143	0	25	0.0%
	2	63	3	41	22		
	3	3	0	0	3		
		209	14	184	25		
422B	1	70	4	60	10	25	4.0%
	2	13	2	0	13		
	3	1	2	0	1		
	4	0	1	0	0		
		84	9	60	24		
423A	1	191	9	183	8	25	0.0%
	2	16	2	0	16		
	3	1	0	0	1		
		208	11	183	25		
423B	1	95	3	73	22	25	0.0%
	2	3	0	0	3		
		98	3	73	25		
424A	1	179	13	179	0	15	0.0%
	2	180	5	174	6		
	3	6	2	0	6		
	4	2	0	0	2		
	5	1	0	0	1		
		368	20	353	15		
424B	1	119	10	119	0	15	0.0%
	2	89	4	75	14		
	3	0	2	0	0		
	4	1	0	0	1		
		209	16	197	15		
426A	1	210	8	210	0	15	0.0%
	2	41	2	30	11		
	3	2	4	0	2		
	4	1	1	0	1		
	6	1	0	0	1		
		255	15	240	15		
426B	1	154	5	154	0	15	0.0%
	2	16	2	2	14		
	3	1	0	0	1		
	4	0	1	0	0		
		171	8	156	15		
427A	1	103	11	103	0	15	0.0%
	2	108	4	108	0		
	3	81	2	81	0		
	4	20	3	5	15		
	5	0	1	0	0		
		312	21	297	15		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
427B	1	75	3	75	0	15	0.0%
	2	60	2	60	0		
	3	28	0	15	13		
	4	2	1	0	2		
		165	6	150	15		
428A	1	508	23	297	211	250	0.0%
	2	32	7	0	32		
	3	6	2	0	6		
	4	1	1	0	1		
	5	0	1	0	0		
		547	34	297	250		
428B	1	406	16	176	230	250	0.0%
	2	16	4	0	16		
	3	3	1	0	3		
	4	1	2	0	1		
	5	0	1	0	0		
		426	24	176	250		
431A	1	67	6	67	0	15	0.0%
	2	67	2	67	0		
	3	32	0	18	14		
	4	1	0	0	1		
	5	0	1	0	0		
		167	9	152	15		
431B	1	75	1	75	0	15	0.0%
	2	41	2	40	1		
	3	14	0	0	14		
		130	3	115	15		
433A	1	443	10	442	1	200	0.0%
	2	188	9	0	188		
	3	6	1	0	6		
	4	1	1	0	1		
	5	3	3	0	3		
	6	1	0	0	1		
		642	24	442	200		
433B	1	390	12	249	141	200	0.0%
	2	51	4	0	51		
	3	4	1	0	4		
	4	3	0	0	3		
	5	0	1	0	0		
	9 (military)	1	0	0	1		
		449	18	249	200		
435A	1	392	18	392	0	75	0.0%
	2	204	10	134	70		
	3	3	5	0	3		
	4	1	2	0	1		
	5	1	1	0	1		
		601	36	526	75		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
435B	1	259	18	235	24	75	0.0%
	2	48	4	0	48		
	3	3	3	0	3		
	4	0	3	0	0		
	5	0	1	0	0		
		310	29	235	75		
440A	1	542	27	542	0	150	0.0%
	2	259	10	123	136		
	3	9	5	0	9		
	4	2	0	0	2		
	5	3	1	0	3		
		815	43	665	150		
440B	1	242	9	119	123	150	0.0%
	2	26	0	0	26		
	3	0	1	0	0		
	4	0	2	0	0		
	5	0	1	0	0		
	9 (military)	1	1	0	1		
		269	14	119	150		
442A	1	663	33	663	0	300	0.0%
	2	347	20	72	275		
	3	20	5	0	20		
	4	4	5	0	4		
	5	0	2	0	0		
	9 (military)	1	0	0	1		
		1,035	65	735	300		
442B	1	487	11	276	211	300	0.0%
	2	78	9	0	78		
	3	9	6	0	9		
	4	1	3	0	1		
	9 (military)	1	0	0	1		
			576	29	276		
443A	1	296	9	273	23	150	0.0%
	2	122	3	0	122		
	3	4	4	0	4		
	4	1	1	0	1		
			423	17	273		
443B	1	213	9	91	122	150	0.0%
	2	25	2	0	25		
	3	1	0	0	1		
	4	2	1	0	2		
			241	12	91		
446A	1	207	8	201	3	75	0.0%
	2	70	5	0	70		
	3	1	4	0	1		
	4	1	0	0	1		
	5	0	2	0	0		
		276	19	201	75		
446B	1	179	7	155	24	75	0.0%
	2	50	2	0	50		
	4	0	1	0	0		
	6	1	0	0	1		
			230	10	155		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
447A	1	212	11	212	0	50	0.0%
	2	104	5	57	47		
	3	3	3	0	3		
	4	0	3	0	0		
		319	22	269	50		
447B	1	126	6	96	30	50	0.0%
	2	19	4	0	19		
	3	1	2	0	1		
		146	12	96	50		
448A	1	412	12	338	74	100	0.0%
	2	25	2	0	25		
	3	0	1	0	0		
	4	1	2	0	1		
	5	0	1	0	0		
		438	18	338	100		
448B	1	151	10	59	92	100	0.0%
	2	7	1	0	7		
	3	0	1	0	0		
	4	1	0	0	1		
	6	0	1	0	0		
		159	13	59	100		
449A	1	449	21	467	32	100	0.0%
	2	61	12	0	61		
	3	6	6	0	6		
	4	1	2	0	1		
	5	0	2	0	0		
	6	0	1	0	0		
		567	44	467	100		
449B	1	178	6	94	84	100	0.0%
	2	15	3	0	15		
	3	0	3	0	0		
	4	1	0	0	1		
		194	12	94	100		
450A	1	108	6	108	0	25	0.0%
	2	115	3	98	17		
	3	6	2	0	6		
	5	2	0	0	2		
		231	11	206	25		
450B	1	62	5	62	0	25	0.0%
	2	29	0	5	24		
	3	0	1	0	0		
	4	1	0	0	1		
		92	6	67	25		
451A	1	235	8	151	84	100	0.0%
	2	9	3	0	9		
	3	5	2	0	5		
	4	0	1	0	0		
	5	2	0	0	2		
	6	0	1	0	0		
		251	15	151	100		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
451B	1	217	8	125	92	100	0.0%
	2	5	3	0	5		
	4	1	0	0	1		
	5	1	0	0	1		
	7	1	0	0	1		
		225	11	125	100		
452A	1	139	12	0	139	650	76.9%
	2	9	0	0	9		
	3	1	1	0	1		
	4	1	0	0	1		
		150	13	0	150		
452B	1	132	6	0	132	650	79.5%
	2	1	1	0	1		
		133	7	0	133		
453A	1	259	15	175	84	100	0.0%
	2	14	3	0	14		
	3	2	1	0	2		
	4	0	2	0	0		
	5	0	1	0	0		
		275	22	175	100		
453B	1	119	6	23	96	100	0.0%
	2	3	2	0	3		
	3	1	0	0	1		
	4	0	1	0	0		
		123	9	23	100		
454A	1	516	23	284	232	250	0.0%
	2	16	8	0	16		
	3	2	5	0	2		
	4	0	2	0	0		
		534	38	284	150		
454B	1	322	16	198	124	150	0.0%
	2	23	3	0	23		
	3	2	0	0	2		
	4	1	2	0	1		
		348	21	198	150		
455A	1	46	1	7	39	65	21.5%
	2	12	1	0	12		
	3	0	1	0	0		
		58	3	7	51		
455B	1	44	2	0	44	65	29.2%
	2	2	0	0	2		
		46	2	0	46		
456A	1	296	14	0	296	400	23.3%
	2	9	2	0	9		
	3	2	0	0	2		
		307	16	0	307		
456B	1	215	10	0	215	400	44.3%
	2	8	1	0	8		
	3	0	1	0	0		
		223	12	0	223		

Table 25. Continued.

Permit Area Number	Preference Level	Applications		Unsuccessful	Winners	Permits Available	% Under-Subscribed
		Total	Rejected				
457A	1	255	18	255	0	100	0.0%
	2	159	6	65	94		
	3	4	3	0	4		
	4	1	4	0	1		
	5	1	4	0	1		
		420	35	320	100		
457B	1	173	8	110	63	100	0.0%
	2	36	0	0	36		
	3	1	1	0	1		
	4	0	2	0	0		
		210	11	110	100		
458A	1	228	5	173	55	100	0.0%
	2	44	6	0	44		
	3	0	4	0	0		
	5	1	0	0	1		
		273	15	173	100		
458B	1	197	7	137	60	100	0.0%
	2	40	1	0	40		
	6	0	1	0	0		
		237	9	137	100		
459A	1	308	17	308	0	150	0.0%
	2	156	4	8	148		
	3	1	4	0	1		
	4	1	2	0	1		
		466	27	316	150		
459B	1	247	11	175	72	150	0.0%
	2	78	6	0	78		
	3	0	2	0	0		
	4	0	2	0	0		
	5	0	2	0	0		
		325	23	175	150		
463A	1	392	12	138	254	275	0.0% ^{463b}
	2	18	1	0	18		
	3	2	5	0	2		
	4	1	1	0	1		
		413	19	138	275		
463B	1	223	8	0	223	275	17.1%
	2	3	3	0	3		
	3	2	1	0	2		
		228	12	0	228		
TOTAL		32,777	2,052	17,322	15,454	18,830	

Table 26. 2007 Special Permit Areas for Firearms Hunters.

Special Hunt	Preference Level	Applications			Winners	Permits Available	Bonus Permits
		Total	Rejected	Unsuccessful			
901 - Rice Lake Nat. Wildlife Refuge	1	95	0	0	95	100	No
		95	0	0	95		
902 - St. Croix State Park	1	608	0	139	469	550	Yes
	2	80	0	0	80		
	3	1	0	0	1		
		689	0	139	550		
903 - Savanna Portage State Park	1	58	0	26	32	55	Yes
	2	22	0	22	0		
	3	2	0	0	2		
		82	0	48	34		
904 - Gooseberry Falls State Park	1	20	0	0	20	30	Yes
	2	1	0	0	1		
	3	1	0	0	1		
		22	0	0	22		
905 - Split Rock Lighthouse State Park	1	26	0	0	26	30	Yes
	2	1	0	0	1		
		27	0	0	27		
906 - Tettegouche State Park	1	60	0	0	60	125	Yes
	2	1	0	0	1		
		61	0	0	61		
907 - Scenic State Park	1	40	0	11	29	30	Yes
	2	2	0	0	2		
		42	0	11	31		
909 - Lake Bemidji State Park	1	36	0	0	35	35	Yes
		36	0	0	35		
910 - Zippel Bay State Park	1	65	0	13	52	55	Yes
	2	3	0	0	3		
		68	0	13	55		
912 - Wild River State Park	1	218	0	153	65	150	Yes
	2	86	0	0	86		
	3	1	0	0	1		
		305	0	153	152		
913 - Lake Carlos State Park	1	8	0	0	8	27	Yes
		8	0	0	8		
914 - William O'Brien State Park	1	71	0	31	40	65	Yes
	2	21	0	0	21		
		92	0	31	61		
915 - Lake Bronson State Park	1	14	0	0	14	25	Yes
	2	1	0	0	1		
		15	0	0	15		
916 - Maplewood State Park	1	241	0	241	0	100	Yes
	2	173	0	101	72		
	3	25	0	0	25		
	4	3	0	0	3		
	442	0	342	100			
917 - Rydell NWR	1	9	0	3	6	7	Yes
	2	1	0	0	1		
		10	0	3	7		
918 - Lake Alexander SNA	1	49	0	10	39	40	Yes
	2	2	0	0	2		
		51	0	10	41		

Table 26. Continued.

Special Hunt	Preference Level	Applications			Winners	Permits Available	Bonus Permits
		Total	Rejected	Unsuccessful			
919 - Beaver Creek Valley State Park	1	18	0	3	15	20	Yes
	2	5	0	0	5		
		23	0	3	20		
920 - Zumbro Falls SNA	1	3	0	0	3	12	Yes
		3	0	0	3		
921 - Forestville/Mystery Cave SP	1	132	0	40	92	110	Yes
	2	18	0	0	18		
		150	0	40	110		
922 - Frontenac State Park	1	69	0	41	28	50	Yes
	2	22	0	0	22		
		91	0	41	50		
923 - Great River Bluffs SP	1	66	0	0	66	100	Yes
	2	13	0	0	13		
		79	0	0	79		
924 - Zumbro Falls SNA	1	14	0	2	12	12	Yes
		14	0	2	12		
925 - Whitewater Refuge	1	64	0	0	64	75	Yes
	2	1	0	0	1		
		65	0	0	65		
926 - Whitewater State Park	1	86	0	43	43	50	Yes
	2	6	0	0	6		
	3	1	0	0	1		
		93	0	43	50		
927 - Carver Park Reserve	1	157	0	71	86	105	Yes
	2	21	0	0	21		
		178	0	71	107		
928 - Crow Hassan Park Reserve	1	86	0	25	61	75	Yes
	2	11	0	0	11		
	3	3	0	0	3		
		100	0	25	75		
929 - Vermillion Highlands WMA	1	18	0	3	15	75	Yes
	2	5	0	0	5		
		23	0	3	20		
930 - Buffalo River State Park	1	14	0	0	14	16	No
	2	1	0	0	1		
		15	0	0	15		
931 - Blue Mounds State Park	1	6	0	0	6	25	Yes
	2	1	0	0	1		
		7	0	0	7		
932 - Glacial Lakes State Park	1	47	0	27	20	30	Yes
	2	9	0	0	9		
	3	2	0	0	2		
		58	0	27	31		
933 - Lake Louise State Park	1	27	0	14	13	25	Yes
	2	12	0	0	12		
		39	0	14	25		
		2,983	0	1,019	1,963	2,204	

Table 27. 2007 Special Permit Areas for Muzzleloader Hunters.

Permit Area Number	Preference Level	Applications			Winners	Permits Available	Bonus Permits
		Total	Rejected	Unsuccessful			
935 - Jay Cooke SP	1	250	0	204	46	120	Yes (4)
	2	69	0	0	69		
	3	5	0	0	5		
		324	0	204	120		
936 - Crow Wing SP	1	100	0	100	0	40	Yes (4)
	2	75	0	73	2		
	3	38	0	0	38		
		213	0	173	40		
937 - Lake Shetek SP	1	58	0	58	0	25	Yes (1)
	2	41	0	16	25		
	4	1	0	0	1		
		100	0	74	26		
938 - Sibley SP	1	64	0	50	14	40	No
	2	25	0	0	25		
	3	1	0	0	1		
		90	0	50	40		
939 - Myre Big Island SP	1	35	0	27	8	40	Yes (1)
	2	29	0	0	29		
	3	4	0	0	4		
		68	0	27	41		
940 - Lake Louise SP	1	43	0	21	22	25	Yes (4)
	2	3	0	0	3		
		46	0	21	25		
941 - Interstate SP	1	7	0	0	7	25	Yes (4)
	2	2	0	0	2		
		9	0	0	9		
942 - Nerstrand Big Woods SP	1	107	0	107	0	50	Yes (1)
	2	51	0	14	37		
	3	13	0	0	13		
		171	0	121	50		
943 - Vermillion Highlands WMA	1	30	0	23	7	20	Yes (1)
	2	8	0	0	8		
	3	5	0	0	5		
		43	0	23	20		
TOTAL		1,055	0	693	362	385	

2007 ELK HARVEST REPORT

Joel Huener, Thief Lake Wildlife Management Area

INTRODUCTION

Minnesota has two populations of elk. The first herd lives in the area north of Grygla on a combination of public and private lands, and can trace its origins back to re-introduction efforts in the area in 1935 (Figure 1). The second herd lives along the Manitoba/Kittson County border, and is comprised of animals that have moved in from Canada.

The Minnesota Legislature provided for the opportunity for sport hunting of elk in 1987 to help alleviate depredation concerns in the Grygla herd range, and to provide for the unique recreational opportunity this affords. Hunting this population is permitted whenever the pre-calving population exceeds 20 animals.

METHODS

Population estimates for these two herds are based on helicopter surveys done between December and March, when snow conditions and the lack of leaf cover permits good visibility of elk. Surveys are undertaken with DNR – Wildlife personnel from Thief Lake WMA and the Karlstad area office with DNR aircraft and pilots. Areas are covered using transects at 1/5 mile intervals in the Grygla herd range, and 1/3 mile intervals in the Border herd range. Transects are programmed into GPS based systems on the aircraft.

Further information on herd composition is derived from ground surveys driven during early morning hours in the respective elk ranges. Because the Border herd winters on both sides of the border, coordination between the Province of Manitoba and Minnesota DNR is necessary, and has not been possible in all years.

When the pre-calving population in the Grygla herd is above 30, a recommendation for hunting seasons and permit numbers is forwarded to the Region and St. Paul based on herd composition. Elk hunting in Minnesota is a once-in-a-lifetime opportunity, and hunters may apply for permits singly or in parties of two (receiving one permit between them). Permits are distributed based on a lottery. Successful applicants must attend a mandatory orientation at Thief Lake WMA, and animals taken must be registered there, where biological samples are taken.

RESULTS

The pre-calving population for the Grygla elk herd in 2007 was 54 animals (see Figure 2). Based on the survey and observed bull mortality since the 2006 hunting season, a bull season was not offered in 2007. Two different antlerless hunts with three permits each were authorized for September 15-23, and December 1-9, 2007. This was the first time that an antlerless elk hunt was held in September, and the opportunity was offered since it did not conflict with a concurrent bull hunt. The Border herd is not hunted at this time in the U.S., and their survey information is presented in Figure 3.

Harvest statistics for this season and a comparison with previous years is presented in Table 1. The elk rut was going on during the first antlerless hunt, and all three parties were able to fill their tags. One cow was taken on each of the first two days of the season, and a third was taken on the fifth day of the season. Snow was present during the second antlerless hunt, and all three parties took cows. The first cow wasn't taken until the fifth day of the season, while a second was taken the following day. The last animal wasn't taken until the eighth day of the hunt. Biological samples to examine elk health and screen for bovine tuberculosis were collected from all animals.

Figure 1. Current elk range in Minnesota, 2007.

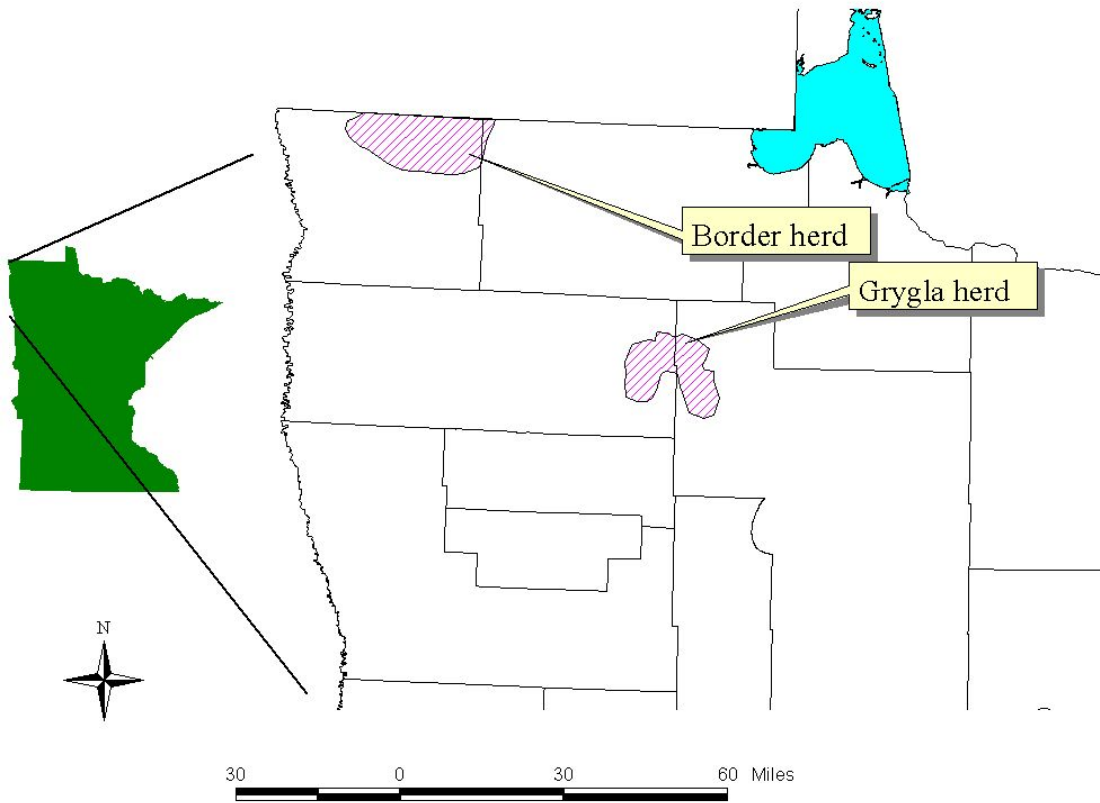


Figure 2. Pre-calving elk numbers in the Grygla herd, 2007.

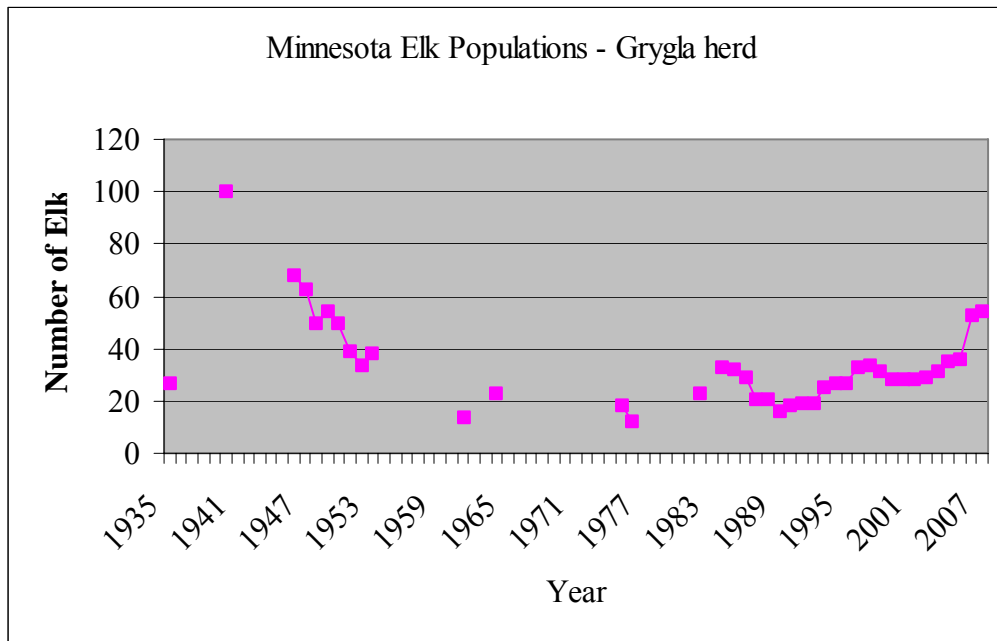


Figure 3. Pre-calving elk numbers in the Border herd, 2007.

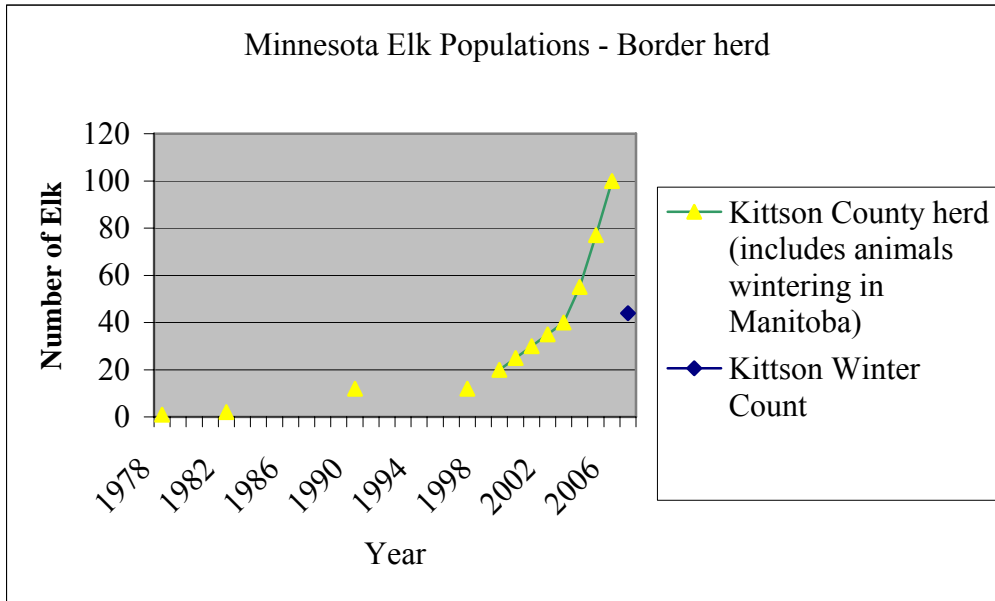


Table 1. Minnesota elk harvest by year including 2007.

Year	Bulls		Antlerless	
	Permits	Harvest	Permits	Harvest
1987	2	1	2	1
1996	2	2	7(1 alternate)	6
1997	5(2 alternate)	1	5(2 alternate)	2
1998	4(2 alternate)	2	0	0
2004	1	1	4	2
2005	1	0	4	0
2006	2	2	6	2*
2007			6	6
Total	17(3 alternate)	9	34	19*

*One of two elk taken was actually a spike bull

2007 MINNESOTA MOOSE HARVEST

Mark S. Lenarz, Forest Wildlife Populations and Research Group

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. Information on permit numbers and moose harvested by members of the 1854 Treaty 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 8 registration stations and provide information on the location where they killed their moose, date of kill, and sex of moose harvested.

RESULTS

In 2007, 155 moose were harvested in northeastern Minnesota. No season was held in northwestern Minnesota. The State of Minnesota sold licenses to 229 hunting parties and hunters killed 115 bull moose (Table 1). This year, it was a bulls only season. Table 1 also lists the number of permits offered, chance of being selected for a permit, and hunter success. The 1854 Treaty Authority issued 51 hunter permits and 4 subsistence permits. Band members killed 26 moose (18 bulls and 8 cows). The Fond du Lac band issued a total of 70 permits and the preliminary harvest (as of 10/19/2007) was 14 moose (bulls only). The Fond du Lac season closes 12/31/2007.

DISCUSSION

The success rate of State hunters in 2007 was 50%, a decrease of 10% over 2006 (Tables 1 and 2). This year's hunt was for bulls only, however. In 2005, and 2006, hunter success for bulls was 50% and 49%, respectively. The success rate for members of the 1854 Treaty Authority was 43%. The preliminary success rate for the Fond du Lac band was 20%, as of 10/19/2007.

Table 1. Moose harvested, licenses offered and sold, application rate, and party success, in 2007 moose hunt by State hunters in northeastern Minnesota

Zone	Bulls	Cows	Total	Licenses Offered	Licenses Sold*	Party Applications**	Chances for Permit	% Success
20	4	0	4	12	11	66	18%	36%
21	7	0	7	10	10	139	7%	70%
22	4	0	4	7	7	52	13%	57%
23	1	0	1	5	4	43	12%	25%
24	6	0	6	6	7	173	3%	86%
25	7	0	7	8	8	205	4%	88%
26	2	0	2	4	4	5	80%	50%
27	1	0	1	4	4	17	24%	25%
28	3	0	3	9	9	87	10%	33%
29	4	0	4	5	5	130	4%	80%
30	4	0	4	10	10	174	6%	40%
31	14	0	14	16	16	311	5%	88%
32	2	0	2	5	4	19	26%	50%
33	3	0	3	7	7	80	9%	43%
34	1	0	1	6	6	68	9%	17%
36	2	0	2	13	12	34	38%	17%
37	1	0	1	3	3	14	21%	33%
60	3	0	3	7	7	43	16%	43%
61	4	0	4	10	9	48	21%	44%
62	12	0	12	22	22	146	15%	55%
63	1	0	1	5	5	27	19%	20%
64	1	0	1	8	8	53	15%	13%
70	3	0	3	5	5	109	5%	60%
72	7	0	7	12	12	103	12%	58%
73	4	0	4	5	5	75	7%	80%
74	3	0	3	4	4	37	11%	75%
76	2	0	2	6	6	93	6%	33%
77	5	0	5	10	10	103	10%	50%
79	1	0	1	5	5	44	11%	20%
80	3	0	3	4	4	68	6%	75%
Total	115	0	115	233	229	2566	9%	50%

*Application error resulted extra licenses sold in zones 74 and 76

**Number of 2, 3, or 4 person parties - rejected applications

Table 2. Applicants, permit numbers, moose harvested, and success rates of state moose hunters since 1993.

Year	Northwest				Northeast				
	Party Applicants	Permits	Moose Harvested	Party Success	Party Applicants	Permits	Licenses Purchased	Moose Harvested	Party Success
1993	6,558	446	422	95%	2,934	315	315	264	84%
1994	8,208	262	244	93%	3,022	189	189	155	82%
1995	7,622	191	171	90%	3,181	188	188	156	83%
1996	2,476	39	38	97%	3,830	207	207	156	75%
1997		No Season			3,958	198	198	152	77%
1998		No Season			4,157	182	182	125	69%
1999		No Season			3,919	189	189	136	72%
2000		No Season					No Season		
2001		No Season			3,164	182	176	125	71%
2002		No Season			2,580	208	202	141	70%
2003		No Season			2,328	224	217	144	66%
2004		No Season			3,062	246	240	151	63%
2005		No Season			3,060	284	276	164	59%
2006		No Season			2,952	279	269	161	60%
2007		No Season			2,566	233	229	115	50%

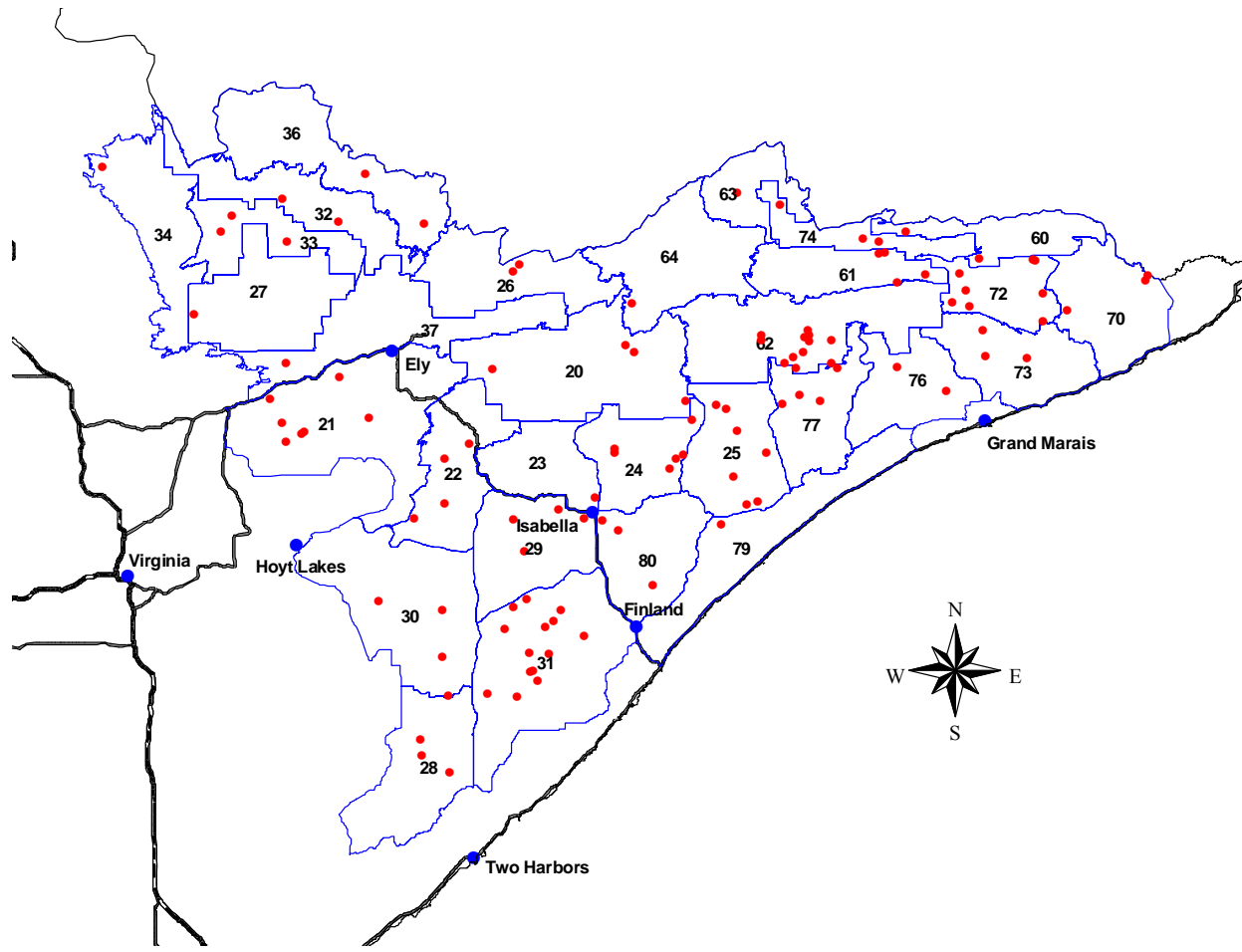


Figure 1. 2007 moose harvest and hunting zones in northeastern Minnesota.

