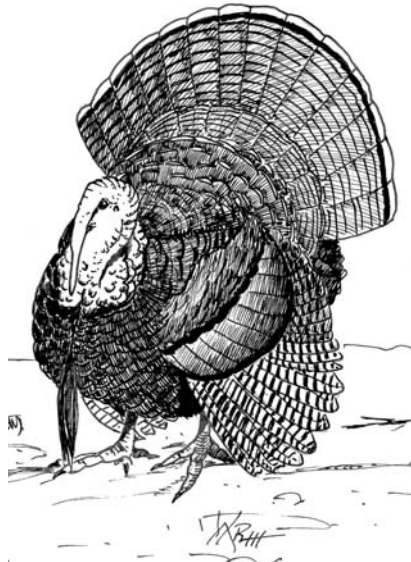


2005 SPRING TURKEY HARVEST REPORT



Sharon Goetz, Bryan Abel, and Allison Boies
Farmland Wildlife Populations and Research Group
35365 800th Ave., Madelia, MN 56062
507-642-8478, ext. 24; sharon.goetz@dnr.state.mn.us

Introduction

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

Methods

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

Results

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

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

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

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

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

Discussion

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

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

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

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

^a Success rate not adjusted for non-participants.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Permit Area	Permits Available	Permits Issued ^a	Registered Harvest	% Hunter Success (2005) ^b	% Hunter Success (2-5 Yr Ave) ^c
429	240	219	47	21.5	21.2 (5)
431	40	40	22	55.0	38.5 (5)
433	40	41	17	41.5	45.1 (2)
440	560	504	149	29.6	31.8 (5)
442	1,280	1123	348	31.0	34.5 (5)
443	560	509	132	25.9	32.0 (5)
446	40	44	18	40.9	NA ^d
447	40	34	15	44.1	NA ^d
448	56	58	27	46.6	57.6 (2)
449	56	54	33	61.1	60.0 (2)
450	56	51	15	29.4	28.6 (5)
451	40	40	21	52.5	59.2 (3)
454	40	37	10	27.0	NA ^d
456	40	35	1	2.9	NA ^d
457	40	32	8	25.0	25.7 (5)
458	40	26	8	30.8	NA ^d
459	200	179	37	20.7	25.5 (5)
461	640	560	178	31.8	32.4 (5)
462	720	642	230	35.8	35.7 (5)
463	160	138	44	31.9	27.7 (5)
464	200	175	54	30.9	23.7 (5)
465	240	207	41	19.8	24.8 (5)
466	400	344	136	39.5	38.1 (4)
467	320	285	115	40.4	35.0 (4)
Total	31,784	27,638	7,800	28.2	30.7

^a 2,210 permits were issued to archery hunters

^b Success rate not adjusted for non-participants.

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

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

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

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

^a Success rate not adjusted for non-participants.

Table 5. Age structure of spring wild turkey harvest by permit area in Minnesota, 2005.
Note: Age is hunter reported and is subject to error.

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

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

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

Permit Area	Total Huntable Habitat ^a (Square Miles)	Turkeys Harvested Per Square Mile
157	269	0.04
159	294	0.04
221	93	0.70
222	NA	NA
223	90	2.20
225	233	0.50
227	111	1.24
228	43	2.79
235	15	2.73
236	169	1.56
244	353	0.15
248	115	0.24
249	207	0.17
337	60	2.20
338	99	1.58
339	92	2.02
341	232	2.18
342	159	2.25
343	96	4.36
344	93	1.98
345	137	1.69
346	216	1.90
347	140	1.44
348	159	1.69
349	277	2.36
410	392	0.34
411	184	0.60
412	275	0.47
413	NA	NA
414	252	0.15
415	264	0.67
416	88	0.33
417	192	0.51
418	222	0.85
419	163	0.42
420	61	0.39
422	44	0.34
424	NA	NA
425/435	128	1.34
426	46	0.15
427	64	0.38
428	110	0.39
429	108	0.44

Permit Area	Total Huntable Habitat^a (Square Miles)	Turkeys Harvested Per Square Mile
431	42	0.52
433	51	0.33
440	97	1.54
442	164	2.12
443	80	1.65
446	91	0.20
447	NA	NA
448	44	0.57
449	59	0.41
450	56	0.27
451/452/453	97	0.22
454/455/456/458	178	0.06
456	NA	NA
457	68	0.12
458	NA	NA
459	104	0.36
461	131	1.36
462	118	1.95
463	70	0.63
464	60	0.90
465	48	0.85
466	115	1.18
467	80	1.44
Total	8,098	0.96

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

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

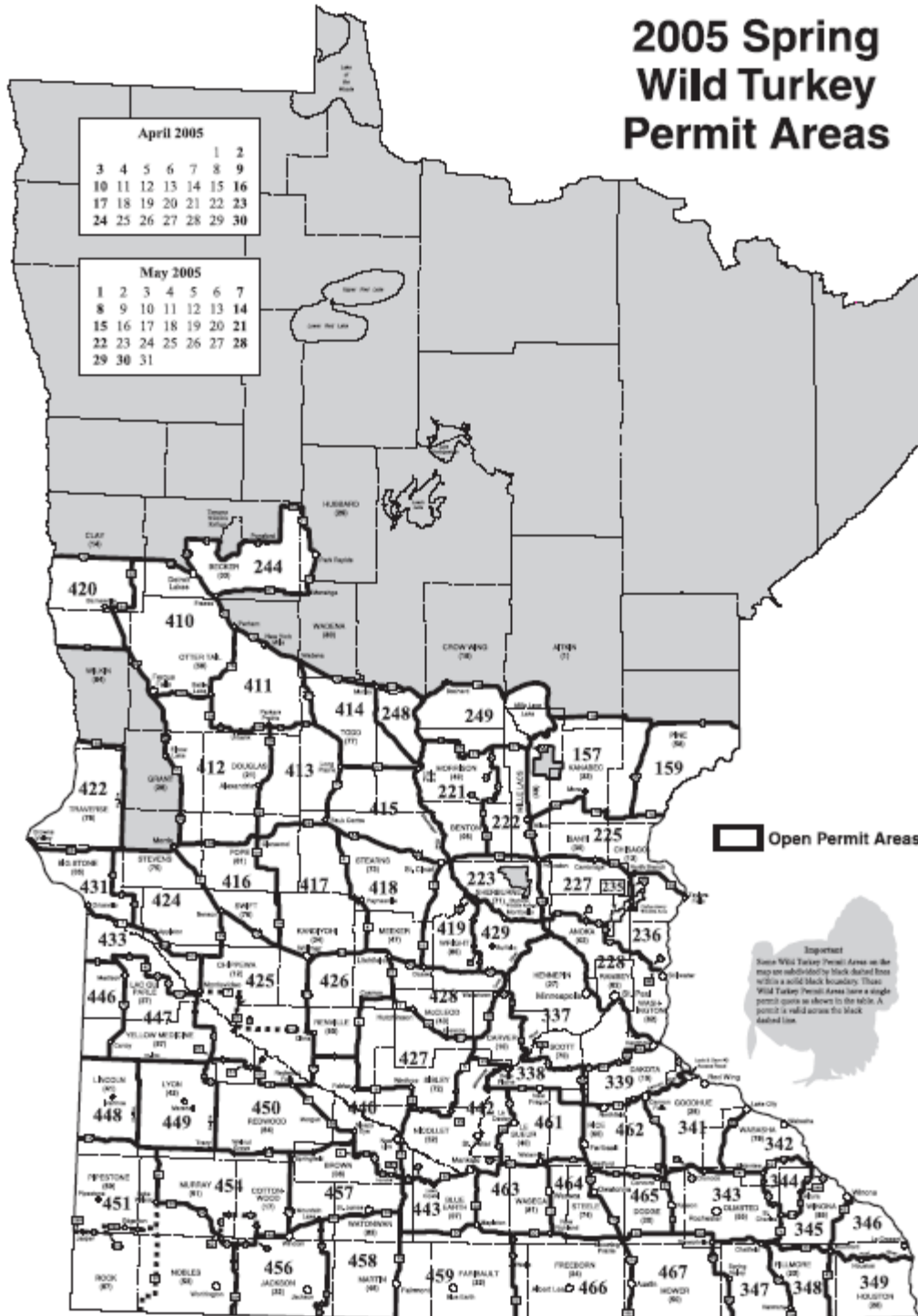


Figure 2. Lottery permits issued for the spring wild turkey hunting season by category in Minnesota, 2005.

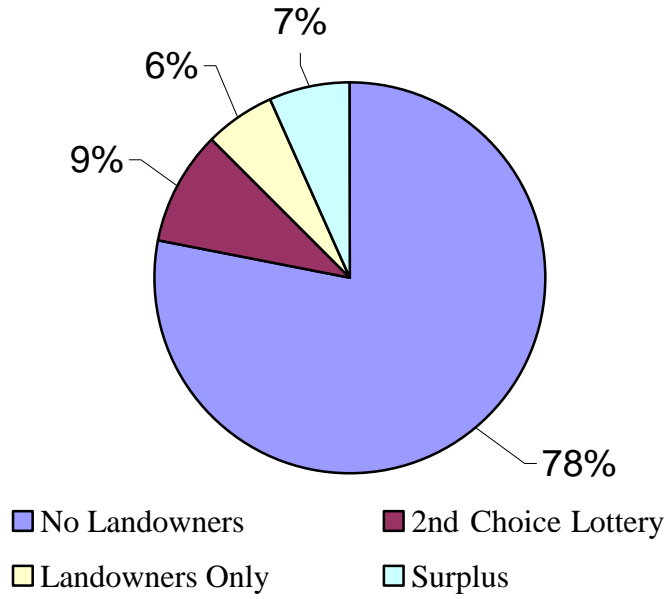


Figure 3. Total harvest and hunter success rate for the spring wild turkey hunting season in Minnesota from 1978 to 2005.

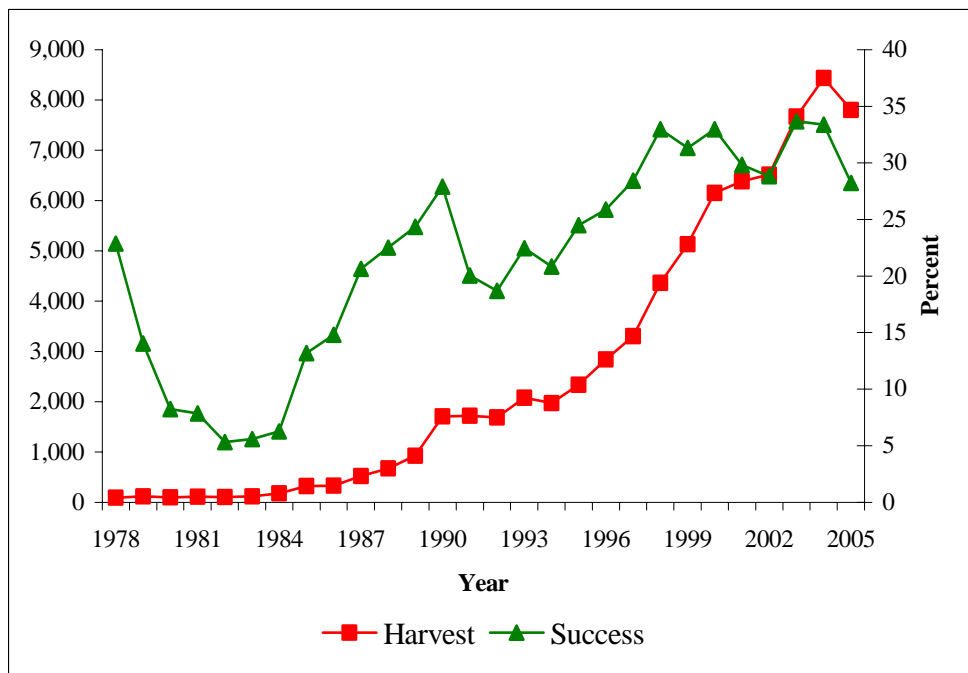


Figure 4. Permits issued, registered harvest, and hunter success by time period for the spring wild turkey hunting season in Minnesota, 2005.

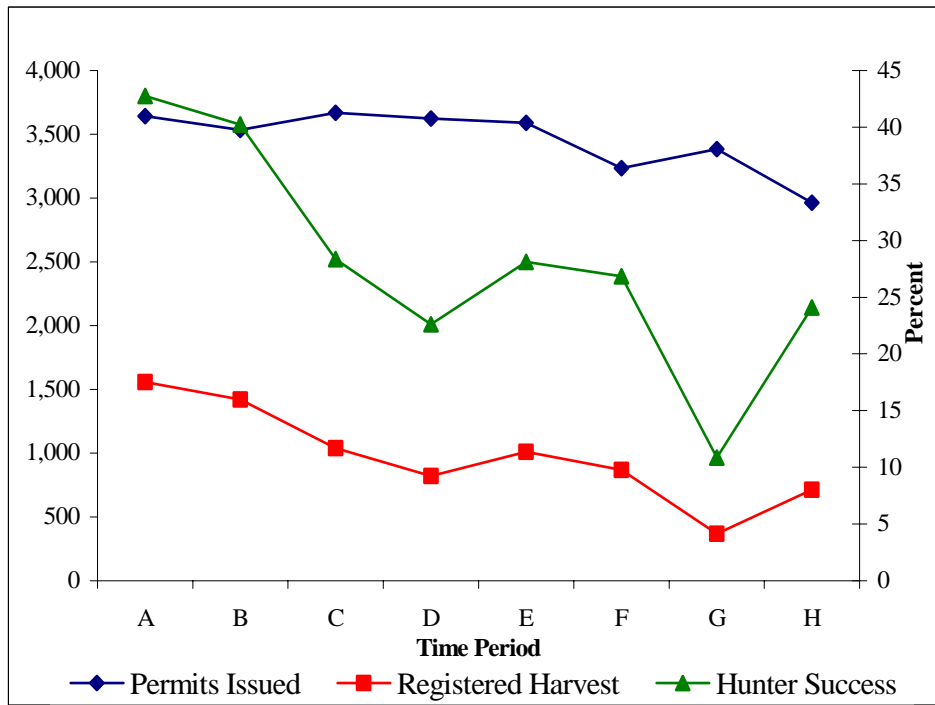


Figure 5. Hunter reported age structure of spring wild turkey harvest in Minnesota, 2005.
Note: Age is hunter reported and is subject to error.

