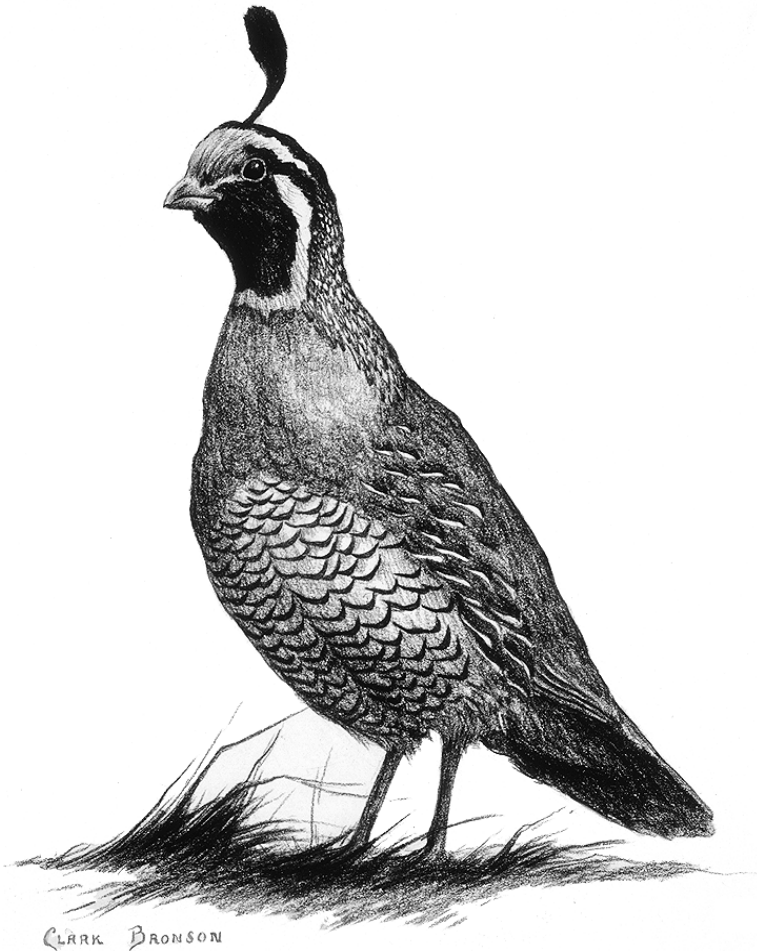


# UTAH UPLAND GAME ANNUAL REPORT 2010



Publication No. 11-21



# Utah Upland Game Annual Report 2010

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Annual Performance Report for Federal Aid Project W-65-M-58 & 59

State of Utah  
Department of Natural Resources  
DIVISION OF WILDLIFE RESOURCES

An Equal Opportunity Employer

**James F. Karpowitz**  
Director

“Finding out how many there are left is the least of the purposes of game census.

Measuring the response of game populations to changes – deliberate or accidental – in their environment is the big purpose.

Continuous census is the yardstick of success or failure in conservation.”

*Aldo Leopold, 1932*

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## INTRODUCTION

The objective of Utah's upland game management program is to provide recreational hunting opportunity for sportsmen within the limits of the annual harvestable surplus for each species. It is based on the knowledge that populations of upland game experience relatively high rates of annual turnover. High reproductive rates are naturally compensated for by high rates of mortality, whether hunting is allowed or not. Annual surveys are conducted to measure the production, trend, and harvest of each upland game population.

This is the 37<sup>th</sup> Annual Upland Game Report. It is an annual performance report of information compiled during inventory and harvest surveys conducted under Federal Aid Project W-65-M, segments 58 & 59. Information contained herein was collected and compiled by biologists, conservation officers, wildlife managers, and upland game management staff of the Utah Division of Wildlife Resources. This report covers the 2010–2011 upland game season and 2010 turkey season.

This report serves as a handbook of inventory and harvest data. It is designed primarily for the use of those concerned with the management of upland game. A separate section is devoted to each species of upland game in Utah. Data are presented primarily in tabular form with limited figures.

The upland game harvest survey is designed to monitor statewide harvest trends from year to year. The more extensively a species is hunted, the more accurately the survey measures the trend data. To improve the accuracy of the indices for species that receive very little hunting pressure, have low densities, and a limited distribution, a unique survey is used. Each species of that type must be hunted using a special permit so that hunter information can be obtained for survey purposes. Species falling into this category include band-tailed pigeon, sage-grouse, sharp-tailed grouse, white-tailed ptarmigan, and wild turkey.

The annual harvest report is sometimes criticized for being inaccurate and without value. However, report users must recognize that the accuracy of the survey is based on 4 basic assumptions: (1) the survey sample is completely random; (2) respondents clearly understood the question; (3) respondents recorded or remembered data accurately, and did not guess or lie; and (4) respondents correctly identified the species hunted. If those assumptions are not met, projections or harvest by county may be over-estimated due to non-response or memory biases. Extreme caution should be used in the interpretation of estimated harvest and hunters for specific species in specific counties. Rather, the long-term trend in these indices should be used in managing the populations. Presently, the Upland Game Annual Report contains the best data available and therefore constitutes the basic facts of upland game management. Although this report has its limitations, the trend data is valuable in making professional judgments regarding upland game populations and harvest.

The annual report is used in wildlife planning. It can be used to establish relative importance among species and for developing new resources through transplants or habitat developments. It points out areas of needed research by indicating problems and possible causes. It documents population trends and it combines all this inventory information into one easily accessible

publication. Thus it is used extensively by federal land management agencies in environmental impact statements and management plans. It will become increasingly more important in developing management plans and assessing impacts on wildlife habitat.

## **METHODS**

General upland game harvest statistics were obtained from a random sample of licensed hunters using an Internet-based survey, followed by a telephone survey for non-response bias. The sample was stratified by license type and then the data were projected by the total number of license holders in each stratum. Hunters with permits for band-tailed pigeon, sage-grouse, sharp-tailed grouse, white-tailed ptarmigan, and wild turkey, were surveyed through a separate telephone survey. Online harvest reporting was mandatory for all hunters who obtained a sandhill crane permit, regardless of success. Several hunters failed to report so harvest statistics are projected by the total number of permit holders for each individual hunt.

In Utah, hunters were required to purchase either a valid combination license or a basic hunting license before purchasing a species-specific hunting permit in Utah or before applying in any drawings. Therefore, only a fraction of hunters who purchased a license actually hunted upland game, and a much larger sample of license holders was required for the upland game harvest survey.

49,918 people were randomly selected for participation in the general upland game harvest survey, representing a 26.8% sample of all licensed hunters in Utah for 2010. These hunters were sent an email inviting them to participate in the Internet-based harvest survey. Of those hunters contacted, 11,433 (22.9%) submitted an online harvest survey. A random sample of 3,319 hunters who did not respond to the Internet-based survey were contacted by telephone for the non-response bias correction survey.

In 2010, the upland game program expended a considerable amount of effort to collect, consolidate, and standardize historical sage-grouse strutting ground count survey data from across the state of Utah. We also clarified the definition of a true "strutting ground", and distinguished between "strutting grounds visited" and "strutting grounds occupied" in order to standardize the calculation of "average males / occupied ground". For example, "strutting grounds visited" is the total number of grounds visited, regardless of whether birds were or were not present. "Strutting grounds occupied" is the number of active grounds where males were present and counted that year. Adjustments have been made to historical count data wherever errors or inconsistencies were discovered. Also, all Gunnison sage-grouse data has been split out and separated from Greater sage-grouse data. Beginning with this 2010 report, all sage-grouse strutting ground count tables have been updated to reflect these changes.

## **RESULTS**

A total of 35,639 hunters spent 287,863 days afield in pursuit of various upland game species in 2010, with the harvest totaling 296,052 animals. Detailed information describing the upland game harvest can be found in the following tables. Regulations for the 2010 upland game hunting season are shown in Appendix C.

Summary of upland game harvest statistics, Utah 2010.

Species	Hunters afield	Total harvest	Hunter-days afield	Bag per hunter-day	Bag per hunter per season
Band-tailed pigeon	51	24	151	0.16	0.47
Chukar partridge	6272	32799	30766	1.07	5.23
Cottontail rabbit	7684	34532	31869	1.08	4.49
Dove	11372	125878	43761	2.88	11.07
Eurasian	—	28723	—	—	—
Mourning	—	87827	—	—	—
White-winged	—	6242	—	—	—
Unknown	—	3086	—	—	—
Forest grouse	10724	46598	52138	0.89	4.35
Dusky (Blue)	—	25056	—	—	—
Ruffed	—	17652	—	—	—
Unknown	—	3890	—	—	—
Sage-grouse	650	802	1156	0.70	1.23
Hungarian partridge	1006	3920	3236	1.21	3.90
Quail	1600	7682	5428	1.42	4.80
Ring-necked pheasant	18103	40299	59747	0.67	2.23
Sandhill crane	253	190	461	0.41	0.75
Sharp-tailed grouse	233	279	393	0.71	1.20
Snowshoe hare	631	726	1243	0.58	1.15
White-tailed ptarmigan	95	32	229	0.14	0.34
Wild turkey	10348	2291	57285	0.04	0.22
Total	35639*	296052	287863	—	—

\*This is not the total of the column because many hunters hunted multiple species.

Number of total upland game hunters afield by species, Utah 2001–2010.

Species	Year									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Band-tailed pigeon	86	58	107	60	52	71	69	63	78	51
Chukar partridge	7338	6944	8118	6265	11565	6245	4971	6627	6562	6272
Cottontail rabbit	8620	7483	8685	6358	12575	7401	6794	8543	6517	7684
Dove	13715	13619	14625	13210	15849	10904	10017	13430	11023	11372
Forest grouse	14260	13020	15669	14259	13371	11532	8193	12189	10791	10724
Hungarian partridge	2596	2694	2656	2253	4345	2148	1099	1475	1817	1006
Quail	3140	2394	2537	2099	3519	2809	2073	2468	2276	1600
Ring-necked pheasant	26468	22149	20773	13457	26864	16521	13764	16936	16798	18103
Sage-grouse	1242	521	767	1077	1231	1070	1083	838	628	650
Sandhill crane	107	86	79	67	76	105	141	174	228	253
Sharp-tailed grouse	309	71	249	218	170	152	149	179	209	233
Snowshoe hare	417	658	686	525	612	496	550	619	766	631
White-tailed ptarmigan	114	59	114	61	98	61	58	61	49	95
Wild turkey								6831	11138	10348
Merriam's	548	622	617	459	441	556	649	—	—	—
Rio Grande	769	876	810	820	1215	1873	2151	—	—	—
Total hunters*	45150	44238	48261	44629	50821	40873	30525	37419	34271	35639

\*This is not the total of the columns because many upland game hunters hunted multiple species.

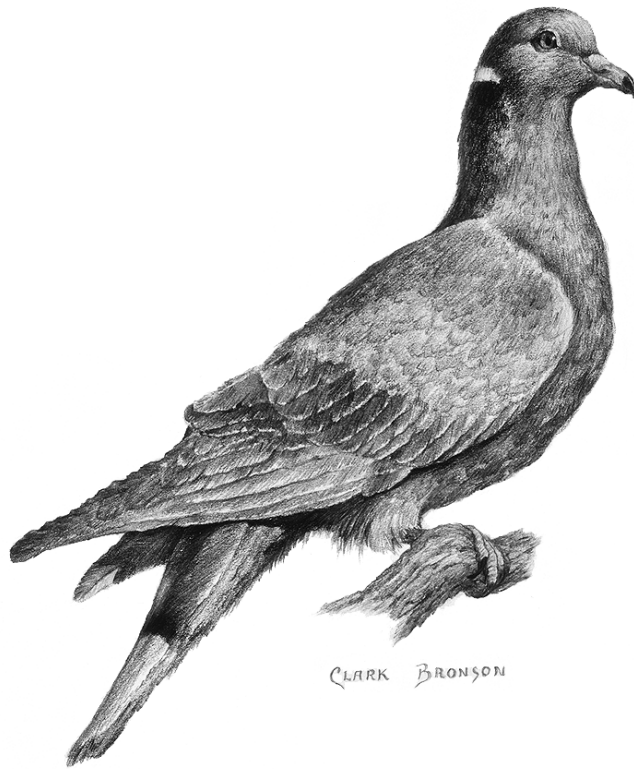


Percent of upland game hunters afield who reported hunting each species, Utah 2001–2010.

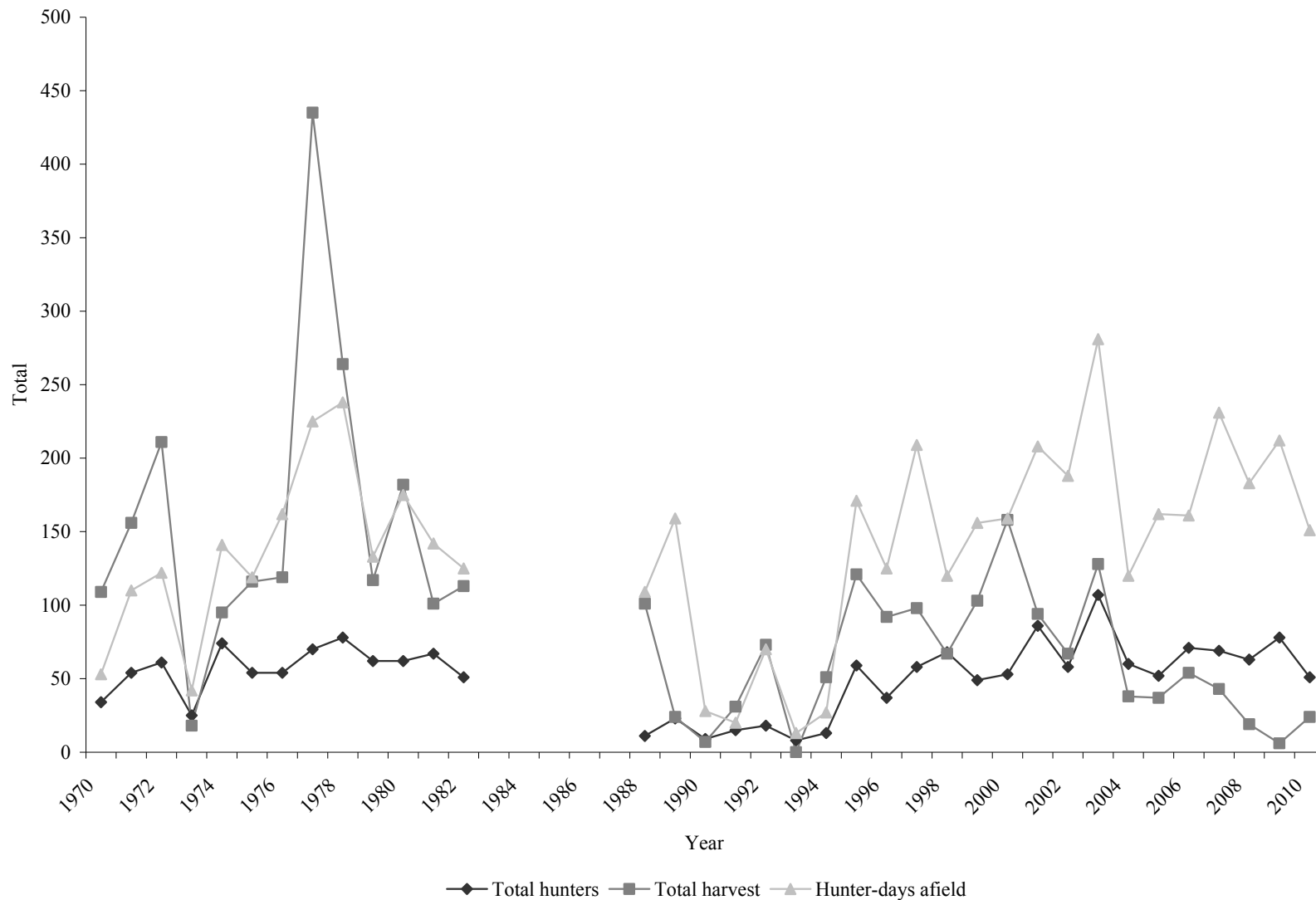
Species	Year									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Band-tailed pigeon*	0.19	0.13	0.22	0.13	0.10	0.17	0.23	0.17	0.23	0.14
Chukar partridge	16.25	15.70	16.82	14.04	22.76	15.28	16.29	17.71	19.15	17.60
Cottontail rabbit	19.09	16.92	18.00	14.25	24.74	18.11	22.26	22.83	19.02	21.56
Dove	30.38	30.79	30.30	29.60	31.19	26.68	32.82	35.89	32.16	31.91
Forest grouse	31.58	29.43	32.47	31.95	26.31	28.21	26.84	32.57	31.49	30.09
Hungarian partridge	5.75	6.09	5.50	5.05	8.55	5.26	3.60	3.94	5.30	2.82
Quail	6.95	5.41	5.26	4.70	6.92	6.87	6.79	6.60	6.64	4.49
Ring-necked pheasant	58.62	50.07	43.04	30.15	52.86	40.42	45.09	45.26	49.02	50.80
Sage-grouse*	2.75	1.18	1.59	2.41	2.42	2.62	3.55	2.24	1.83	1.82
Sandhill crane	0.24	0.19	0.16	0.15	0.15	0.26	0.46	0.47	0.67	0.71
Sharp-tailed grouse*	0.68	0.16	0.52	0.49	0.33	0.37	0.49	0.48	0.61	0.65
Snowshoe hare	0.92	1.49	1.42	1.18	1.20	1.21	1.80	1.65	2.24	1.77
White-tailed ptarmigan*	0.25	0.13	0.24	0.14	0.19	0.15	0.19	0.16	0.14	0.27
Wild turkey*								18.26	32.50	29.04
Merriam's	1.21	1.41	1.28	1.03	0.87	1.36	2.13	—	—	—
Rio Grande	1.70	1.98	1.68	1.84	2.39	4.58	7.05	—	—	—

\*Although band-tailed pigeon, sage-grouse, sandhill crane, sharp-tailed grouse, wild turkey, and white-tailed ptarmigan harvest were determined by separate surveys, it is assumed that these hunters are derived from the same group of hunters who reported hunting other upland species.

# BAND-TAILED PIGEON

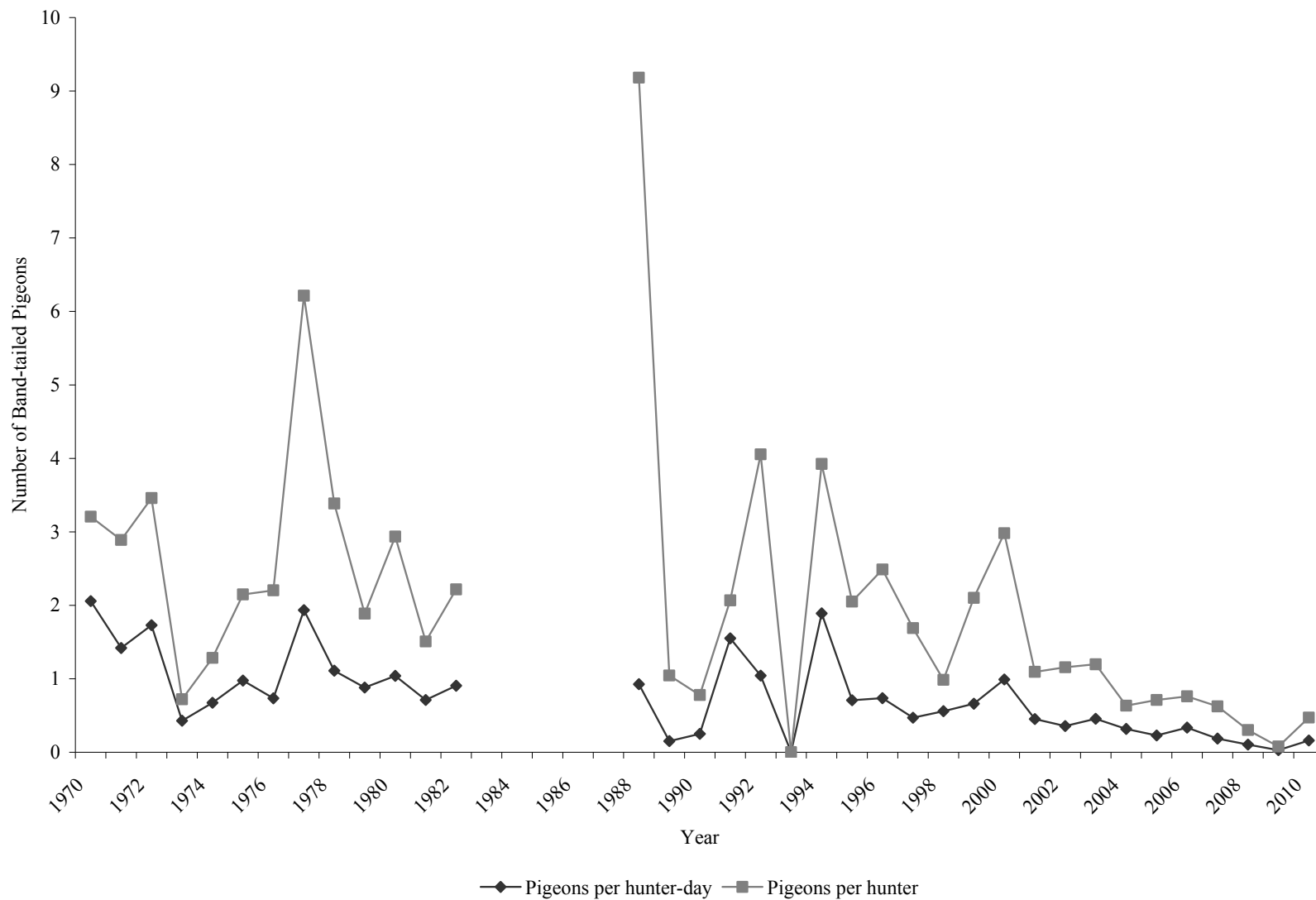


Statewide trends in band-tailed pigeon harvest statistics, Utah 1970–2010.



\*No data available 1983–1987.

Statewide trends in band-tailed pigeon hunter success, Utah 1970–2010.



\*No data available 1983–1987.

### Band-tailed pigeon harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Pigeons bagged	Pigeons / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	0	—	—	—	—	—	—
Cache	0	—	—	—	—	—	—
Davis	0	—	—	—	—	—	—
Morgan	0	—	—	—	—	—	—
Rich	0	—	—	—	—	—	—
Summit	0	—	—	—	—	—	—
Weber	0	—	—	—	—	—	—
Regional total	0	—	—	—	—	—	—
Central Region							
Juab	0	—	—	—	—	—	—
Salt Lake	0	—	—	—	—	—	—
Sanpete	1	3	3	0	0.00	2.0	0.0
Tooele	0	—	—	—	—	—	—
Utah	5	13	46	5	0.11	30.5	20.8
Wasatch	0	—	—	—	—	—	—
Regional total	6	16	49	5	0.10	32.5	20.8
Southern Region							
Beaver	2	5	16	0	0.00	10.6	0.0
Garfield	0	—	—	—	—	—	—
Iron	2	5	11	0	0.00	7.3	0.0
Kane	0	—	—	—	—	—	—
Millard	0	—	—	—	—	—	—
Piute	0	—	—	—	—	—	—
Sevier	0	—	—	—	—	—	—
Washington	3	8	27	13	0.48	17.9	54.2
Wayne	1	3	5	0	0.00	3.3	0.0
Regional total	8	21	59	13	0.22	39.1	54.2
Northeastern Region							
Daggett	0	—	—	—	—	—	—
Duchesne	0	—	—	—	—	—	—
Uintah	0	—	—	—	—	—	—
Regional total	0	—	—	—	—	—	—
Southeastern Region							
Carbon	0	—	—	—	—	—	—
Emery	0	—	—	—	—	—	—
Grand	1	3	3	0	0.00	2.0	0.0
San Juan	2	5	8	5	0.63	5.3	20.8
Regional total	3	8	11	5	0.45	7.3	20.8
Unknown	4	11	32	0	0.00	21.2	0.0
Statewide total*	19	51	151	24	0.16	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties. Areas open for band-tailed pigeon hunting include Beaver, Garfield, Grand, Iron, Kane, Millard, Piute, San Juan, Sanpete, Sevier, Utah, Washington, and Wayne counties.

175 permits sold, 65 people surveyed, 71% did not hunt.

Statewide band-tailed pigeon harvest statistics, Utah 1970–2010.

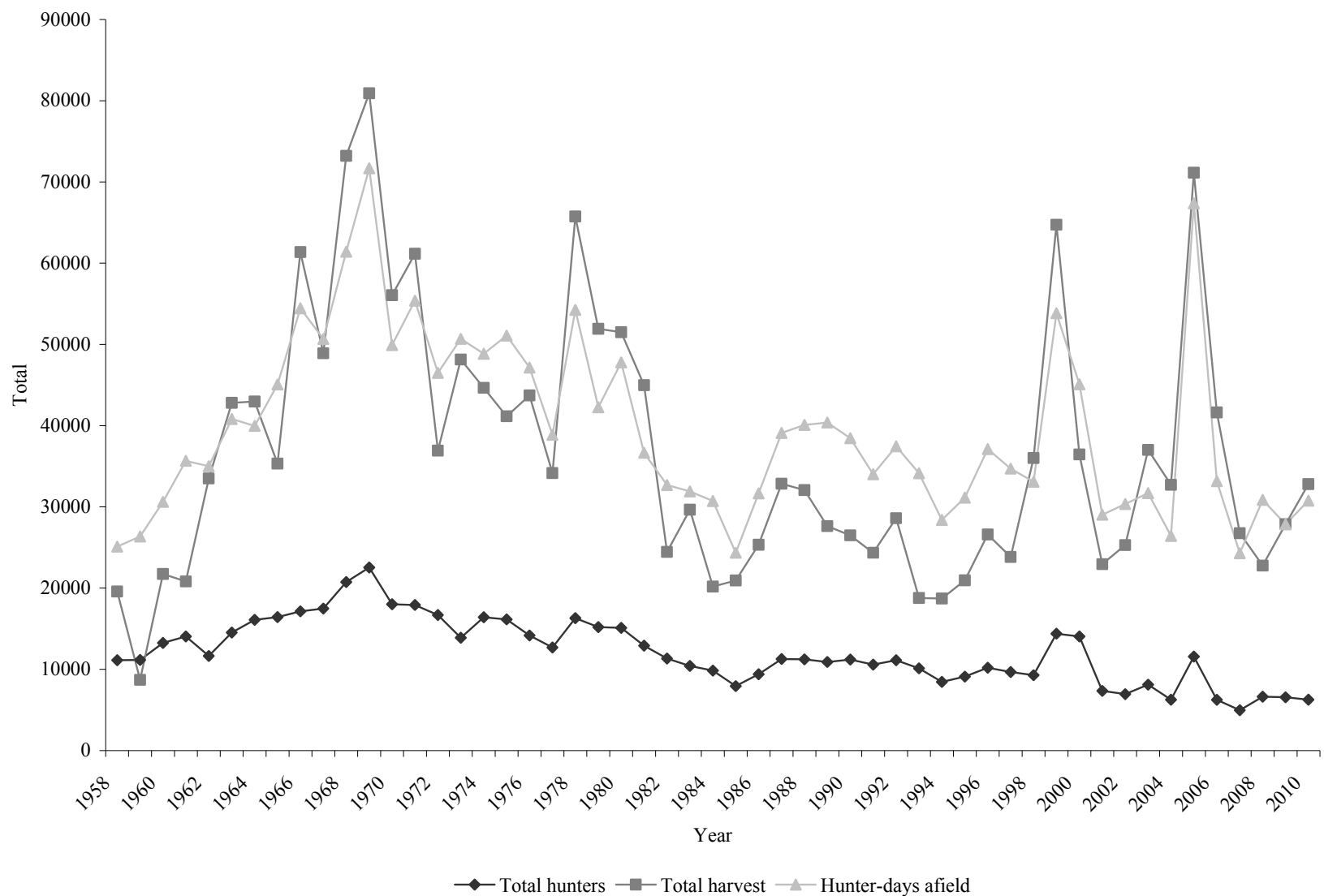
Year	Total hunters	Total harvest	Hunter-days afield	Pigeons / hunter-day	Pigeons / hunter
1970	34	109	53	2.06	3.21
1971	54	156	110	1.42	2.89
1972	61	211	122	1.73	3.46
1973	25	18	42	0.43	0.72
1974	74	95	141	0.67	1.28
1975	54	116	119	0.97	2.15
1976	54	119	162	0.73	2.20
1977	70	435	225	1.93	6.21
1978	78	264	238	1.11	3.38
1979	62	117	133	0.88	1.89
1980	62	182	175	1.04	2.94
1981	67	101	142	0.71	1.51
1982	51	113	125	0.90	2.22
1983-87*	—	—	—	—	—
1988	11	101	109	0.93	9.18
1989	23	24	159	0.15	1.04
1990	9	7	28	0.25	0.78
1991	15	31	20	1.55	2.07
1992	18	73	70	1.04	4.06
1993	8	0	13	0.00	0.00
1994	13	51	27	1.89	3.92
1995	59	121	171	0.71	2.05
1996	37	92	125	0.74	2.49
1997	58	98	209	0.47	1.69
1998	68	67	120	0.56	0.99
1999	49	103	156	0.66	2.10
2000	53	158	159	0.99	2.98
2001	86	94	208	0.45	1.09
2002	58	67	188	0.36	1.16
2003	107	128	281	0.46	1.20
2004	60	38	120	0.32	0.63
2005	52	37	162	0.23	0.71
2006	71	54	161	0.34	0.76
2007	69	43	231	0.19	0.62
2008	63	19	183	0.10	0.30
2009	78	6	212	0.03	0.08
2010	51	24	151	0.16	0.47
Total (1970–2010)	1862	3472	5050	—	—
Average (1970–2009)	52	99	140	0.77	2.11
% change from previous year	-35	300	-29	462	512
% change from average	-1	-76	8	-79	-78

\*No data from 1983 to 1987

# CHUKAR PARTRIDGE

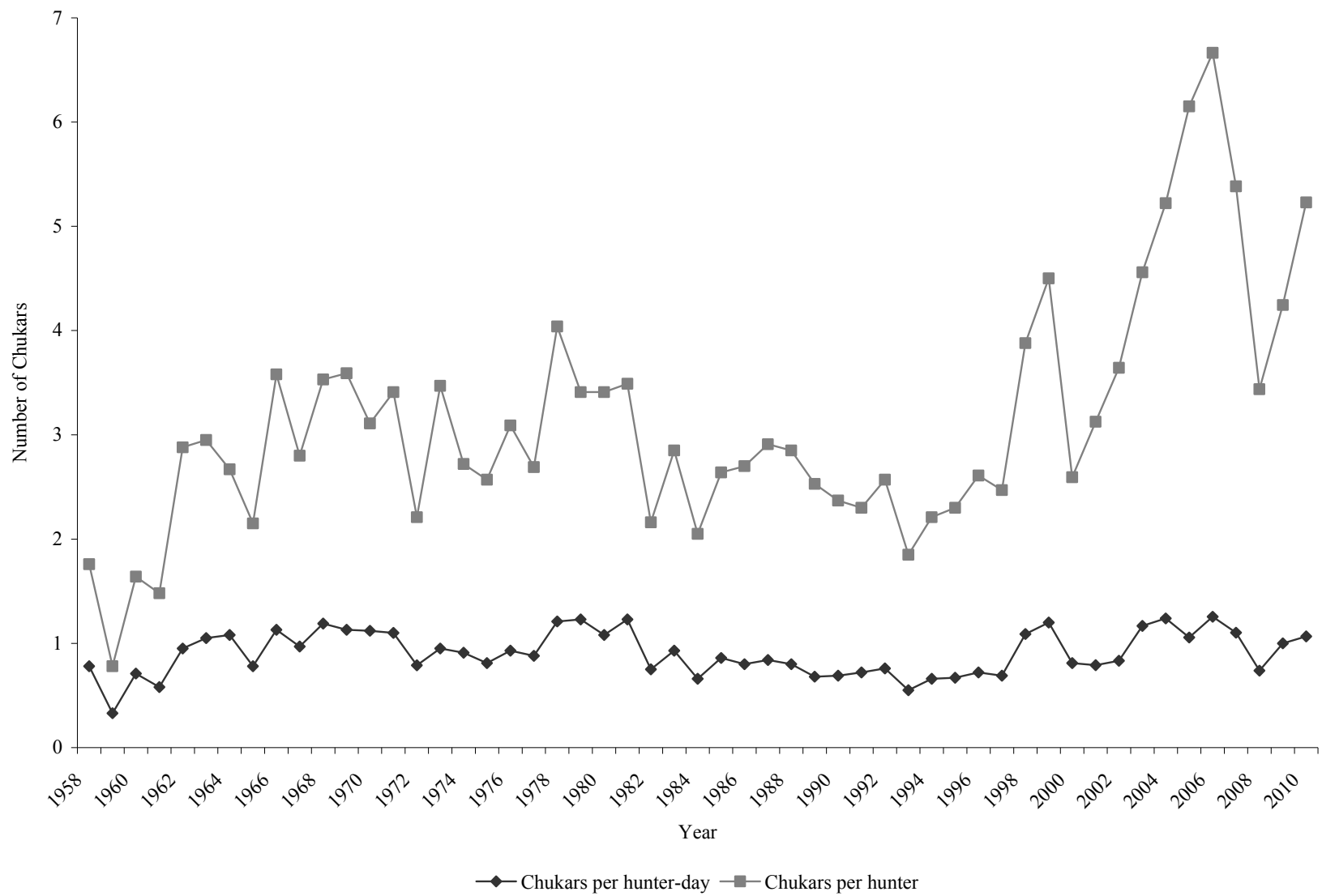


Statewide trends of chukar partridge harvest statistics, Utah 1958–2010.





Statewide trends of chukar partridge hunter success, Utah 1958–2010.



Chukar partridge aerial survey, Northeast Cedar Mountains, Tooele County, Utah 1996–2010.

Year	Date	Coveys flushed	Total chukars observed	Square miles surveyed	Chukars / square mile	Elapsed time (hours)	Chukars / survey hour
1996	08/21/96	12	103	6.49	16	1.17	88
1997	08/20/97	18	295	8.00	37	1.17	252
1998	09/03/98	52	939	8.00	117	1.35	696
1999	08/16/99	65	623	8.00	78	1.75	356
2000	08/21/00	23	96	8.00	12	1.30	74
2001	—	9	68	8.00	9	1.63	42
2002	08/28/02	5	36	8.00	5	1.61	22
2003	08/22/03	27	238	8.00	30	1.33	179
2004	08/20/04	15	167	8.00	21	1.87	89
2005	08/18/05	36	566	8.00	71	1.53	370
2006	08/24/06	50	779	8.00	97	2.50	312
2007	08/29/07	24	144	8.00	18	2.00	72
2008	09/15/08	22	94	5.00	19	2.42	39
2009	09/22/09	19	107	5.00	21	—	—
2010	08/17/10	6	22	5.00	4	2.33	9
Total (1996–2010)	—	383	4277	—	—	—	—
Average (1996–2009)	—	27	304	7.46	39	1.78	187
% change from previous year	—	-68	-79	0	-79	—	—
% change from average	—	-78	-93	-33	-89	40	-95

## Chukar partridge harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Chukars bagged	Chukars / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	122	1181	4365	6432	1.47	14.2	19.6
Cache	29	281	984	804	0.82	3.2	2.5
Davis	3	29	502	82	0.16	1.6	0.2
Morgan	20	194	618	436	0.71	2.0	1.3
Rich	0	—	—	—	—	—	—
Summit	6	58	314	177	0.56	1.0	0.5
Weber	8	77	230	504	2.19	0.7	1.5
Regional total	188	1820	7013	8435	1.20	22.8	25.7
Central Region							
Juab	43	416	1874	2685	1.43	6.1	8.2
Salt Lake	9	87	272	341	1.25	0.9	1.0
Sanpete	34	329	1204	1281	1.06	3.9	3.9
Tooele	130	1258	5663	6105	1.08	18.4	18.6
Utah	130	1258	5946	7165	1.21	19.3	21.8
Wasatch	8	77	419	232	0.55	1.4	0.7
Regional total	354	3425	15378	17809	1.16	50.0	54.3
Southern Region							
Beaver	8	77	345	354	1.03	1.1	1.1
Garfield	2	19	52	123	2.37	0.2	0.4
Iron	3	29	63	41	0.65	0.2	0.1
Kane	1	10	10	0	0.00	0.0	0.0
Millard	36	348	1078	1363	1.26	3.5	4.2
Piute	9	87	461	259	0.56	1.5	0.8
Sevier	44	426	2334	1567	0.67	7.6	4.8
Washington	18	174	712	395	0.55	2.3	1.2
Wayne	3	29	84	109	1.30	0.3	0.3
Regional total	124	1199	5139	4211	0.82	16.7	12.8
Northeastern Region							
Daggett	3	29	84	150	1.79	0.3	0.5
Duchesne	13	126	429	109	0.25	1.4	0.3
Uintah	18	174	628	491	0.78	2.0	1.5
Regional total	34	329	1141	750	0.66	3.7	2.3
Southeastern Region							
Carbon	11	106	262	286	1.09	0.9	0.9
Emery	14	136	523	273	0.52	1.7	0.8
Grand	7	68	272	41	0.15	0.9	0.1
San Juan	2	19	136	0	0.00	0.4	0.0
Regional total	34	329	1193	600	0.50	3.9	1.8
Unknown	29	281	900	995	1.11	2.9	3.0
Statewide total*	648	6272	30766	32799	1.07	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

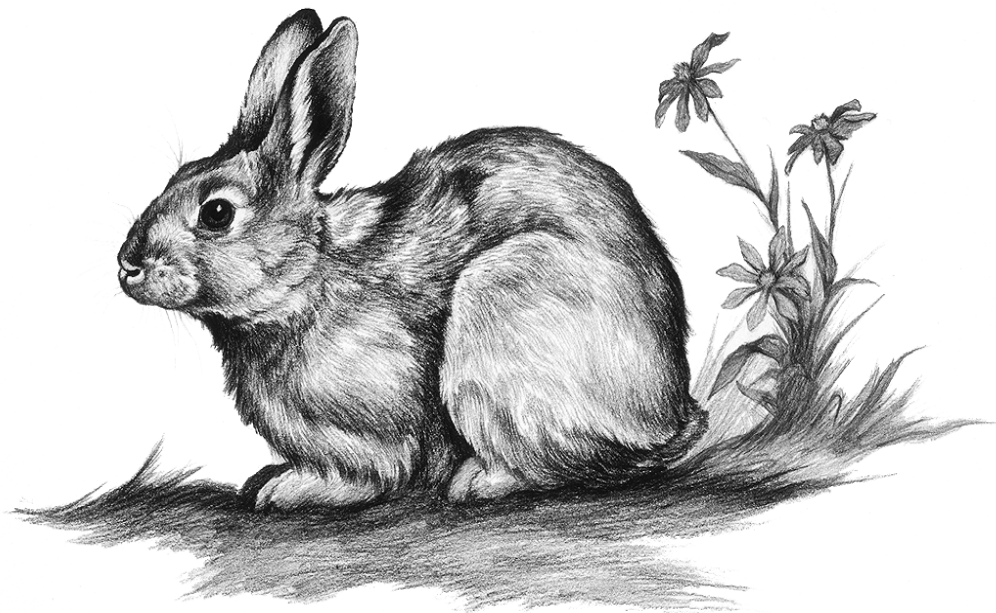
Statewide chukar partridge harvest statistics, Utah 1958–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Chukars / hunter-day	Chukars / hunter
1958	11124	19578	25100	0.78	1.76
1959	11154	8700	26364	0.33	0.78
1960	13252	21733	30610	0.71	1.64
1961	14046	20821	35675	0.58	1.48
1962	11638	33500	35010	0.95	2.88
1963	14532	42806	40824	1.05	2.95
1964	16090	42974	39971	1.08	2.67
1965	16431	35335	45067	0.78	2.15
1966	17133	61370	54448	1.13	3.58
1967	17485	48906	50671	0.97	2.80
1968	20744	73218	61402	1.19	3.53
1969	22529	80917	71674	1.13	3.59
1970	18013	56053	49911	1.12	3.11
1971	17917	61151	55378	1.10	3.41
1972	16685	36925	46502	0.79	2.21
1973	13888	48135	50677	0.95	3.47
1974	16412	44658	48856	0.91	2.72
1975	16156	41151	51083	0.81	2.57
1976	14171	43726	47143	0.93	3.09
1977	12691	34155	38873	0.88	2.69
1978	16291	65747	54239	1.21	4.04
1979	15210	51918	42254	1.23	3.41
1980	15100	51511	47778	1.08	3.41
1981	12907	44983	36662	1.23	3.49
1982	11326	24460	32691	0.75	2.16
1983	10418	29649	31904	0.93	2.85
1984	9846	20179	30715	0.66	2.05
1985	7930	20938	24346	0.86	2.64
1986	9397	25346	31672	0.80	2.70
1987	11276	32848	39099	0.84	2.91
1988	11237	32057	40088	0.80	2.85
1989	10910	27628	40384	0.68	2.53
1990	11195	26486	38463	0.69	2.37
1991	10577	24355	34010	0.72	2.30
1992	11125	28599	37463	0.76	2.57
1993	10128	18774	34147	0.55	1.85
1994	8455	18721	28389	0.66	2.21
1995	9097	20954	31140	0.67	2.30

Statewide chukar partridge harvest statistics, Utah 1958–2010 (cont.).

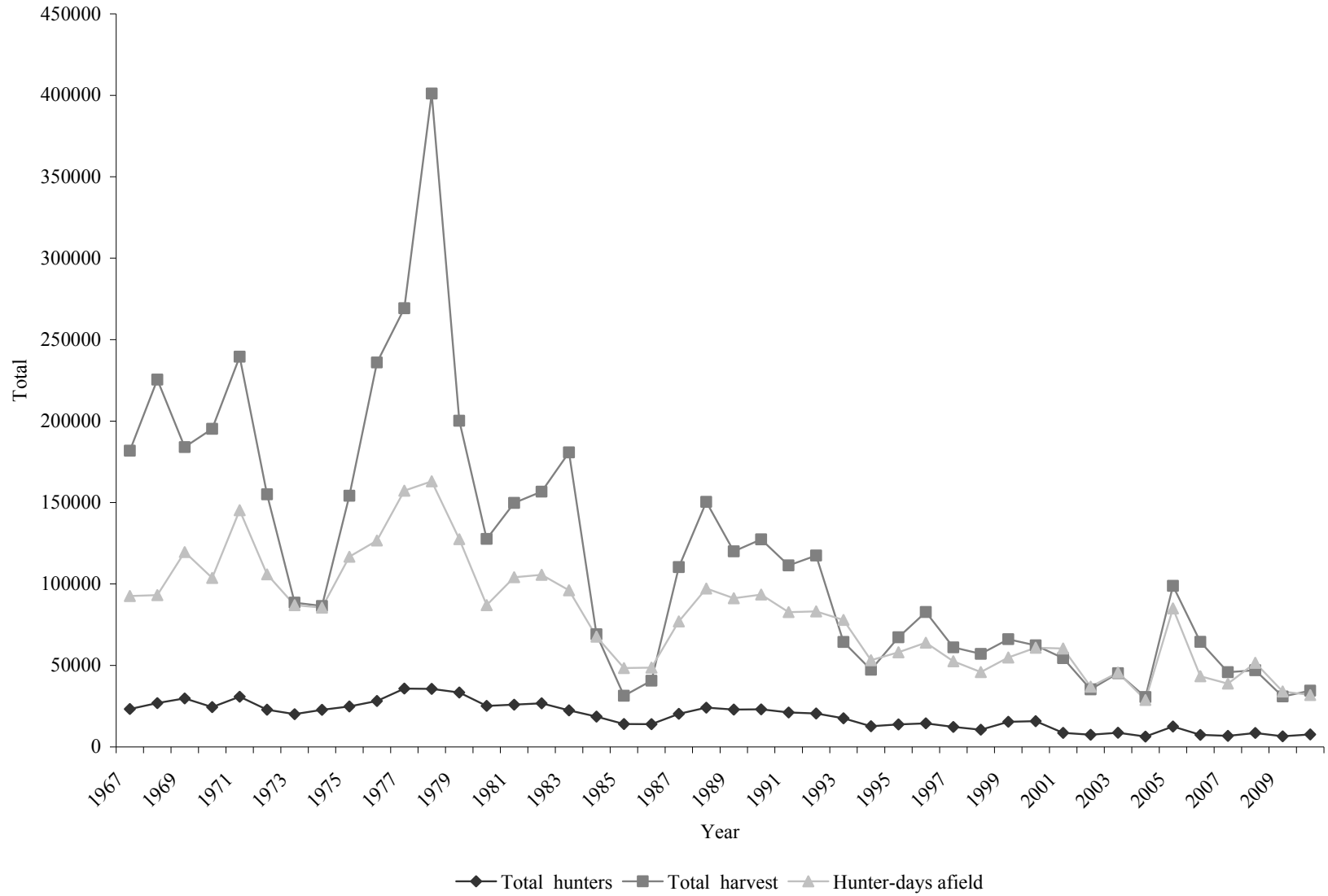
Year	Total hunters	Total harvest	Hunter-days afield	Chukars / hunter-day	Chukars / hunter
1996	10197	26594	37116	0.72	2.61
1997	9665	23840	34711	0.69	2.47
1998	9283	36013	33082	1.09	3.88
1999	14388	64727	53842	1.20	4.50
2000	14056	36458	45096	0.81	2.59
2001	7338	22941	29032	0.79	3.13
2002	6944	25294	30351	0.83	3.64
2003	8118	37007	31696	1.17	4.56
2004	6265	32718	26421	1.24	5.22
2005	11565	71134	67373	1.06	6.15
2006	6245	41618	33175	1.25	6.66
2007	4971	26758	24291	1.10	5.38
2008	6627	22777	30867	0.74	3.44
2009	6562	27860	27858	1.00	4.25
2010	6272	32799	30766	1.07	5.23
Total (1958–2010)	643012	1949503	2096360	—	—
Average (1958–2009)	12245	36860	39723	0.90	3.08
% change from previous year	-4	18	10	7	23
% change from average	-49	-11	-23	18	70

# COTTONTAIL RABBIT

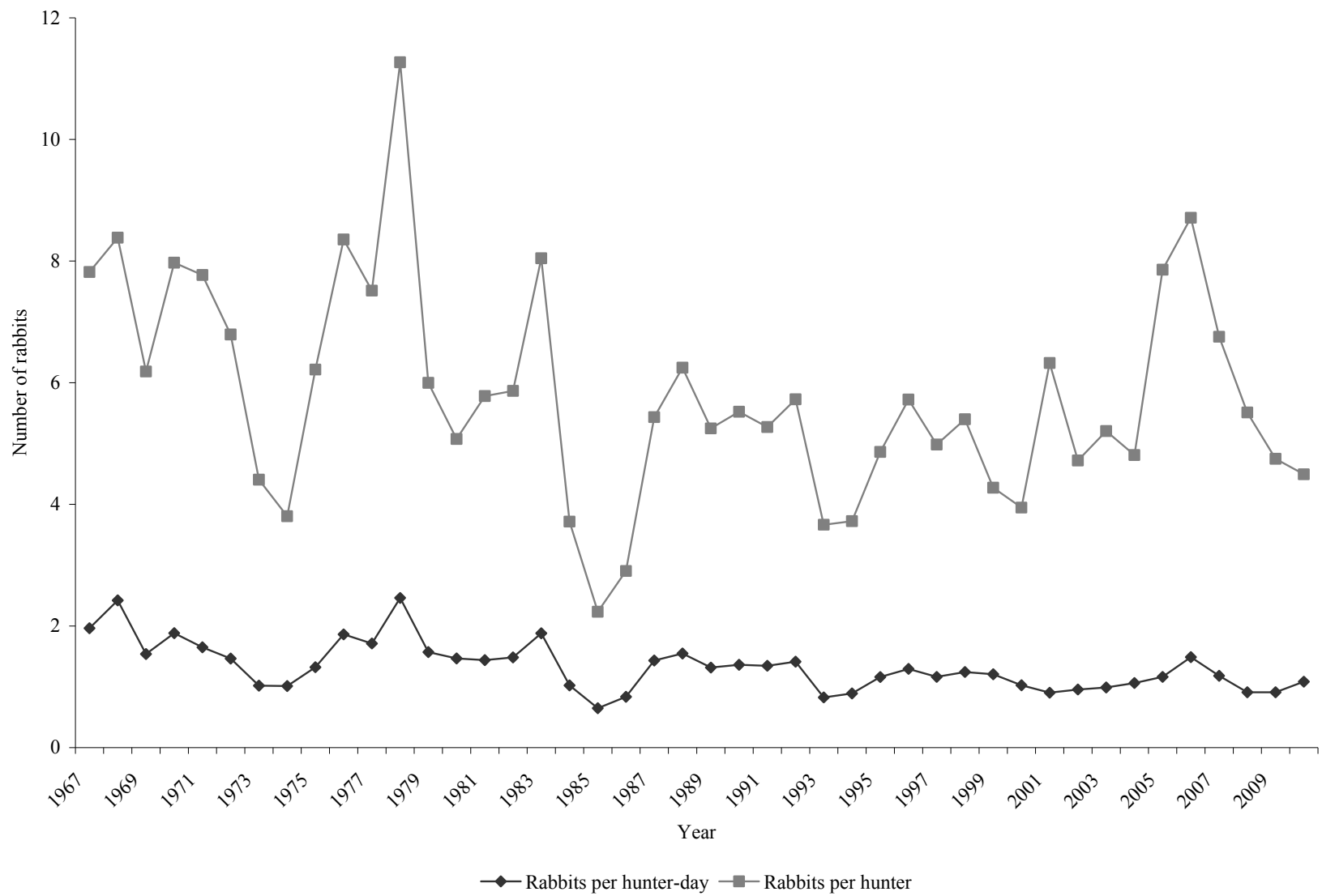


CLARK BRONSON

Statewide trends of cottontail rabbit harvest statistics, Utah 1967–2010.



Statewide trends of cottontail rabbit hunter success, Utah 1967–2010.





Cottontail rabbit harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Rabbits bagged	Rabbits / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	90	1064	2665	4597	1.72	8.4	13.3
Cache	30	355	870	1372	1.58	2.7	4.0
Davis	5	59	357	75	0.21	1.1	0.2
Morgan	9	106	279	573	2.05	0.9	1.7
Rich	39	461	1494	2804	1.88	4.7	8.1
Summit	14	166	569	799	1.40	1.8	2.3
Weber	5	59	167	196	1.17	0.5	0.6
Regional total	192	2270	6401	10416	1.63	20.1	30.2
Central Region							
Juab	37	437	1093	693	0.63	3.4	2.0
Salt Lake	4	47	134	106	0.79	0.4	0.3
Sanpete	18	213	959	512	0.53	3.0	1.5
Tooele	96	1135	3345	3376	1.01	10.5	9.8
Utah	61	721	1985	1628	0.82	6.2	4.7
Wasatch	13	154	401	573	1.43	1.3	1.7
Regional total	229	2707	7917	6888	0.87	24.8	19.9
Southern Region							
Beaver	4	47	134	45	0.34	0.4	0.1
Garfield	9	106	435	769	1.77	1.4	2.2
Iron	16	189	435	452	1.04	1.4	1.3
Kane	4	47	89	151	1.70	0.3	0.4
Millard	15	177	926	1688	1.82	2.9	4.9
Piute	3	35	56	15	0.27	0.2	0.0
Sevier	18	213	613	196	0.32	1.9	0.6
Washington	26	307	1249	1929	1.54	3.9	5.6
Wayne	10	118	279	241	0.86	0.9	0.7
Regional total	105	1239	4216	5486	1.30	13.2	15.9
Northeastern Region							
Daggett	16	189	758	1221	1.61	2.4	3.5
Duchesne	53	627	2197	2186	0.99	6.9	6.3
Uintah	45	532	2052	1764	0.86	6.4	5.1
Regional total	114	1348	5007	5171	1.03	15.7	15.0
Southeastern Region							
Carbon	32	378	2765	2186	0.79	8.7	6.3
Emery	38	449	3267	2246	0.69	10.3	6.5
Grand	15	177	725	633	0.87	2.3	1.8
San Juan	17	201	1015	588	0.58	3.2	1.7
Regional total	102	1205	7772	5653	0.73	24.4	16.4
Unknown	23	272	558	919	1.65	1.7	2.7
Statewide total*	650	7684	31869	34532	1.08	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

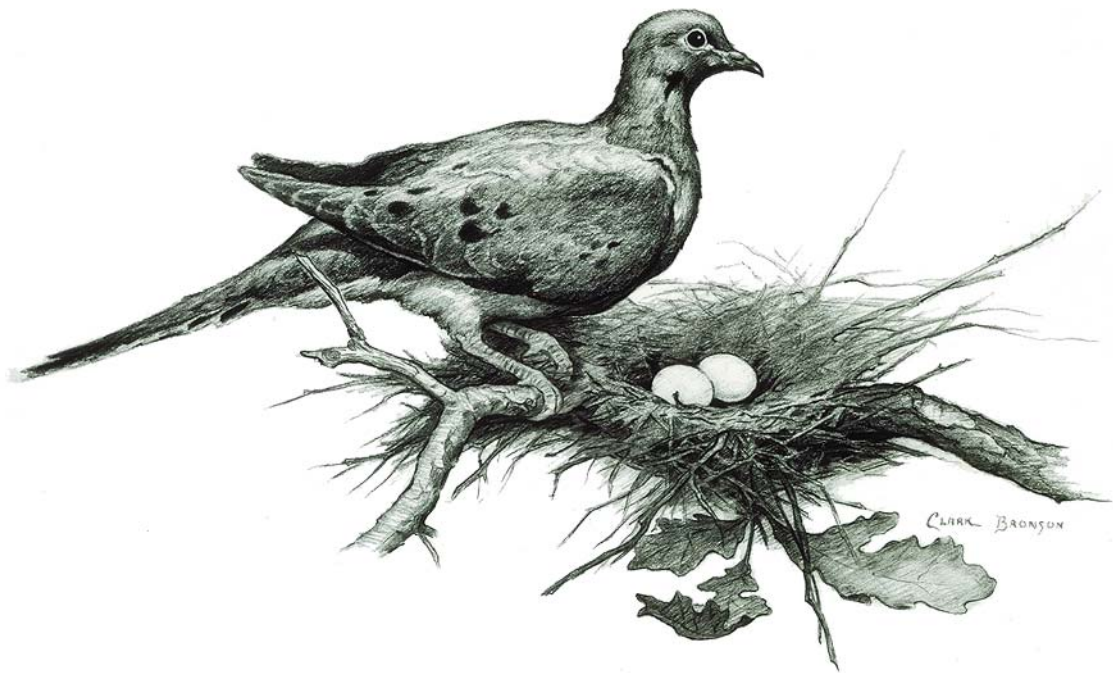
Statewide cottontail rabbit harvest statistics, Utah 1967–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Rabbits / hunter-day	Rabbits / hunter
1967	23249	181812	92681	1.96	7.82
1968	26889	225450	93126	2.42	8.38
1969	29760	184034	119596	1.54	6.18
1970	24486	195248	103725	1.88	7.97
1971	30824	239511	145287	1.65	7.77
1972	22835	155102	105941	1.46	6.79
1973	20109	88603	87036	1.02	4.41
1974	22737	86506	85499	1.01	3.80
1975	24803	154182	116707	1.32	6.22
1976	28239	235952	126737	1.86	8.36
1977	35831	269263	157257	1.71	7.51
1978	35590	401071	163019	2.46	11.27
1979	33385	200223	127497	1.57	6.00
1980	25156	127652	87051	1.47	5.07
1981	25906	149765	104183	1.44	5.78
1982	26714	156696	105644	1.48	5.87
1983	22467	180767	96151	1.88	8.05
1984	18616	69186	67643	1.02	3.72
1985	14059	31397	48371	0.65	2.23
1986	13992	40636	48694	0.83	2.90
1987	20322	110411	77047	1.43	5.43
1988	24076	150386	97190	1.55	6.25
1989	22878	120075	91264	1.32	5.25
1990	23070	127389	93515	1.36	5.52
1991	21137	111407	82772	1.35	5.27
1992	20509	117454	83154	1.41	5.73
1993	17578	64400	77968	0.83	3.66
1994	12709	47322	53175	0.89	3.72
1995	13840	67295	58042	1.16	4.86
1996	14470	82803	63943	1.29	5.72
1997	12263	61109	52587	1.16	4.98
1998	10585	57137	45947	1.24	5.40
1999	15475	66142	54894	1.20	4.27
2000	15797	62330	60895	1.02	3.95
2001	8620	54506	60401	0.90	6.32
2002	7483	35320	36994	0.95	4.72
2003	8685	45210	45693	0.99	5.21
2004	6358	30586	28828	1.06	4.81
2005	12575	98827	85059	1.16	7.86

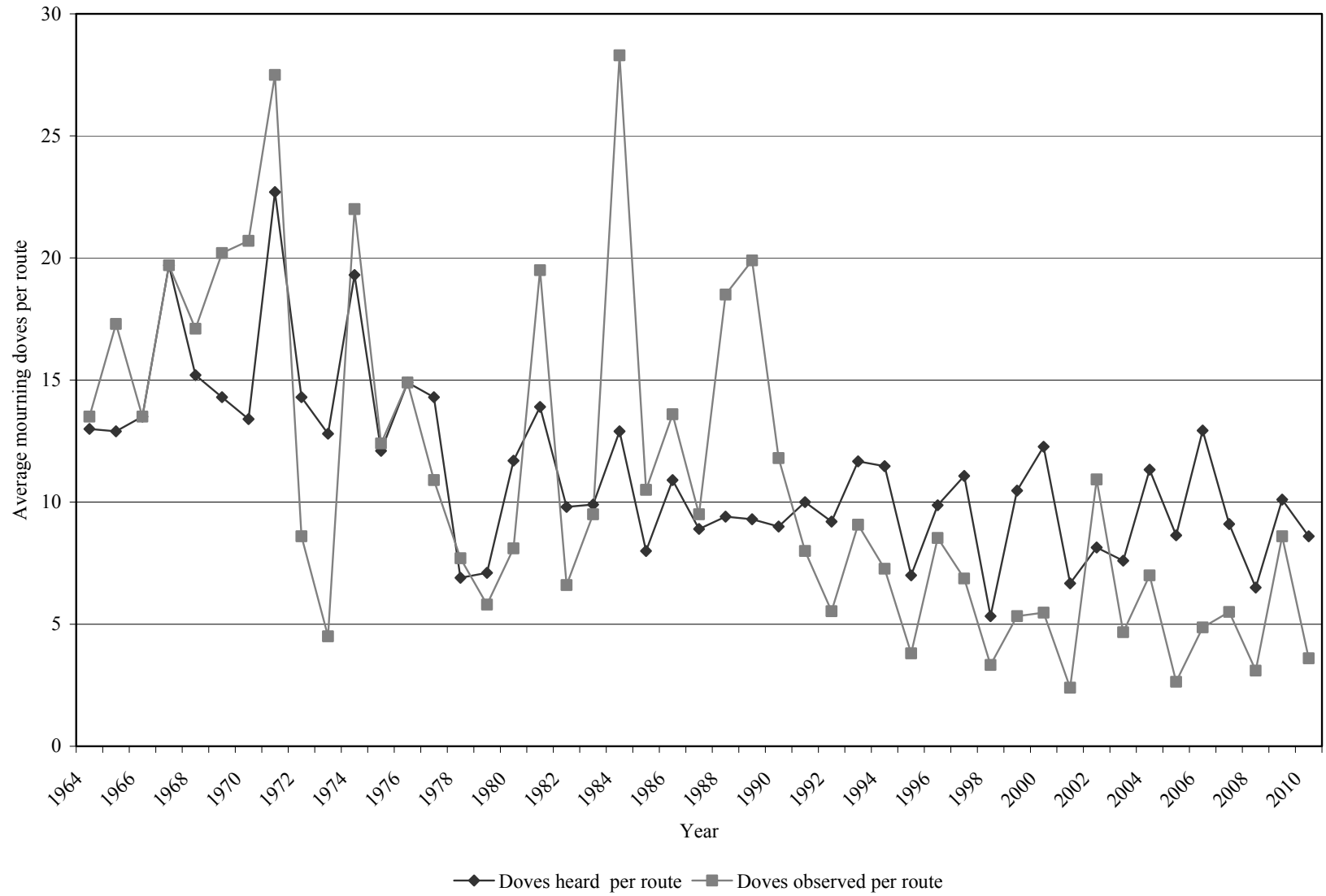
Statewide cottontail rabbit harvest statistics, Utah 1967–2010 (cont.).

Year	Total hunters	Total harvest	Hunter-days afield	Rabbits / hunter-day	Rabbits / hunter
2006	7401	64476	43334	1.49	8.71
2007	6794	45902	38886	1.18	6.76
2008	8543	47077	51673	0.91	5.51
2009	6517	30946	34026	0.91	4.75
2010	7684	34532	31869	1.08	4.49
Total (1967–2010)	831016	5106098	3531001	—	—
Average (1967–2009)	19147	117943	81375	1.34	5.83
% change from previous year	18	12	-6	19	-5
% change from average	-60	-71	-61	-19	-23

# DOVE



Mourning dove breeding density index trend, Utah 1964–2010.



Summary of mourning dove call-count surveys by county and region, Utah 2010.

Region and county	Route number	Doves heard / route	Doves observed / route
Northern Region			
Box Elder	R1500	12	21
Summit	R1020	2	0
Regional total		14	21
Central Region			
Juab	R2830	—	—
Regional total		—	—
Southern Region			
Beaver	R3820	15	2
Garfield	R1090	0	0
Iron	R4001	19	6
Millard	R3640	14	0
Sevier-Sanpete	R0370	0	3
Washington	R4311	14	1
Wayne-Sevier	R0660	2	0
Regional total		64	12
Northeastern Region			
Duchesne	R0080	2	4
Uintah	R0220	10	8
Regional total		12	12
Southeastern Region			
Emery	R0540	1	0
San Juan	R1171	19	5
San Juan	R1452	10	0
Regional total		30	5
Statewide total		120	50
Statewide average		8.6	3.6
Previous year average		10.1	8.6
% change from previous year		-15	-58

Statewide trends of mourning dove call-count surveys, Utah 1964–2010.

Year	Doves heard / route	Calls heard / route	Doves observed / route
1964	13.0	73.4	13.5
1965	12.9	49.3	17.3
1966	13.5	67.5	13.5
1967	19.7	79.5	19.7
1968	15.2	82.7	17.1
1969	14.3	80.7	20.2
1970	13.4	54.3	20.7
1971	22.7	83.6	27.5
1972	14.3	55.7	8.6
1973	12.8	46.3	4.5
1974	19.3	74.8	22.0
1975	12.1	31.0	12.4
1976	14.9	69.5	14.9
1977	14.3	51.1	10.9
1978	6.9	25.5	7.7
1979	7.1	28.1	5.8
1980	11.7	49.6	8.1
1981	13.9	66.9	19.5
1982	9.8	42.1	6.6
1983	9.9	43.2	9.5
1984	12.9	58.7	28.3
1985	8.0	32.2	10.5
1986	10.9	46.6	13.6
1987	8.9	36.2	9.5
1988	9.4	42.4	18.5
1989	9.3	43.5	19.9
1990	9.0	53.9	11.8
1991	10.0	—	8.0
1992	9.2	—	5.5
1993	11.7	—	9.1
1994	11.5	—	7.3
1995	7.0	—	3.8
1996	9.9	—	8.5
1997	11.1	—	6.9
1998	5.3	—	3.3
1999	10.5	—	5.3
2000	12.3	—	5.5
2001	6.7	—	2.4
2002	8.1	—	10.9

Statewide trends of mourning dove call-count surveys, Utah 1964–2010 (cont.).

Year	Doves heard / route	Calls heard / route	Doves observed / route
2003	7.6	—	4.7
2004	11.3	—	7.0
2005	8.6	—	2.6
2006	12.9	—	4.9
2007	9.1	—	5.5
2008	6.5	—	3.1
2009	10.1	—	8.6
2010	8.6	—	3.6
Average (1964–2009)	11.3	54.4	11.0
% change from previous year	-14.9	—	-58.1
% change from average	-23.8	—	-67.2

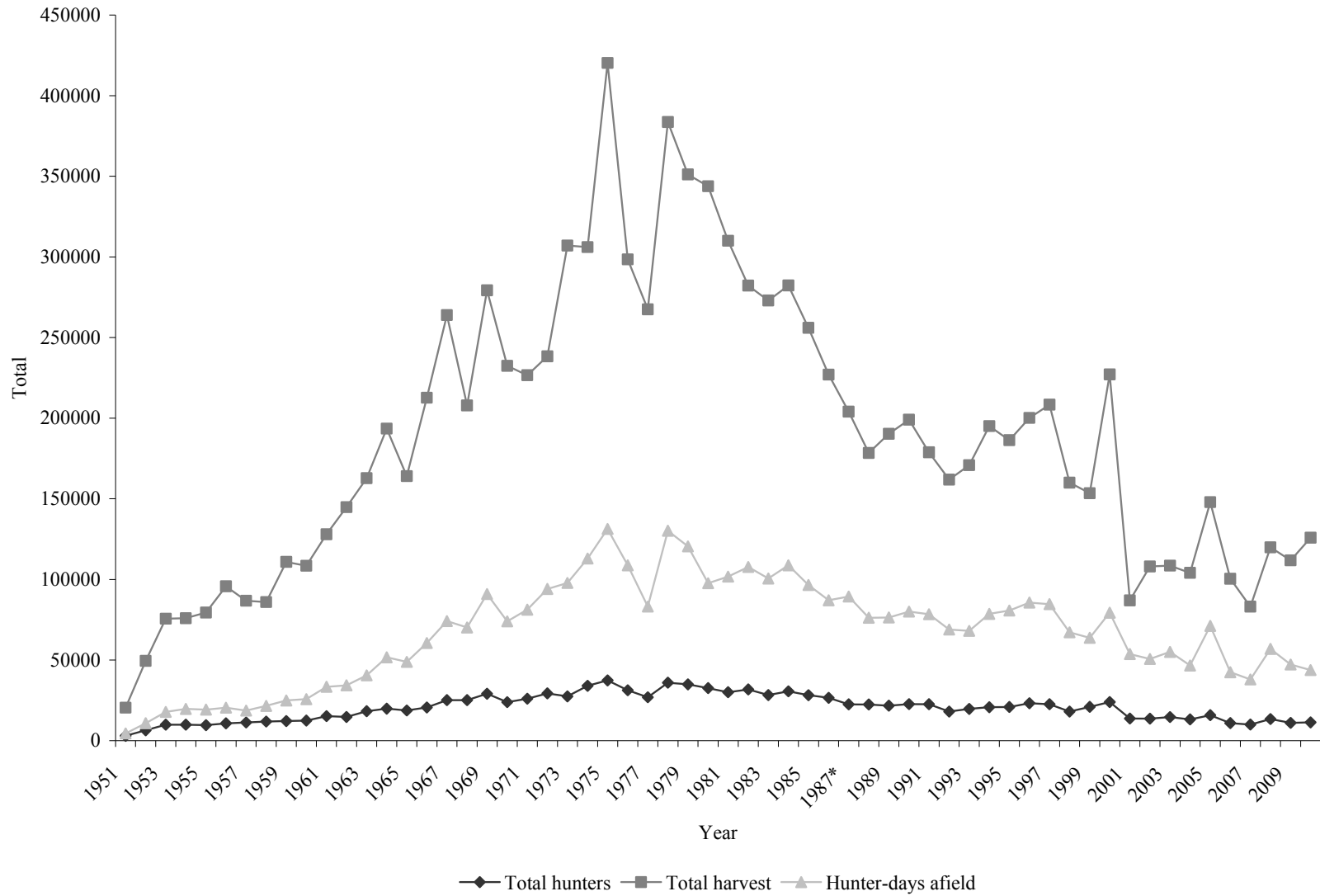


Mourning dove breeding population trend based on random call-count surveys, Utah 2001–2010.

Region and county	Route number	Number of mourning doves heard / route									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Northern Region											
Box Elder	R1500	6	0	5	14	13	11	18	19	18	12
Summit	R1020	1	6	6	7	2	3	0	2	0	2
Regional total		7	6	11	21	15	14	18	21	18	14
Central Region											
Juab	R2830	34	15	9	37	34	38	34	5	33	—
Regional total		34	15	9	37	34	38	34	5	33	—
Southern Region											
Beaver	R3820	2	12	1	7	2	8	10	0	15	15
Garfield	R1090	1	2	2	5	3	18	7	0	0	0
Iron	R4001	20	21	17	27	23	41	20	12	31	19
Millard	R3640	0	3	4	1	—	6	4	3	7	14
Sevier-Sanpete	R0370	5	5	6	6	4	4	5	5	6	0
Washington	R4311	4	2	7	7	11	5	10	19	17	14
Wayne-Sevier	R0660	1	8	11	3	0	3	1	1	0	2
Regional total		33	53	48	56	43	85	57	40	76	64
Northeastern Region											
Duchesne	R0080	4	12	12	12	3	11	3	2	3	2
Uintah	R0220	4	13	8	6	15	14	9	3	4	10
Regional total		8	25	20	18	18	25	12	5	7	12
Southeastern Region											
Emery	R0540	10	—	5	10	3	2	6	2	1	1
San Juan	R1171	5	13	17	15	1	20	2	7	10	19
San Juan	R1451/R1452	3	2	4	13	7	10	7	17	6	10
Regional total		18	15	26	38	11	32	15	26	17	30
Statewide total		100	114	114	170	121	194	136	97	151	120
Statewide average		6.7	8.1	7.6	11.3	8.6	12.9	9.1	6.5	10.1	8.6
% change from previous year		-46	22	-7	49	-24	50	-30	-29	55	-15

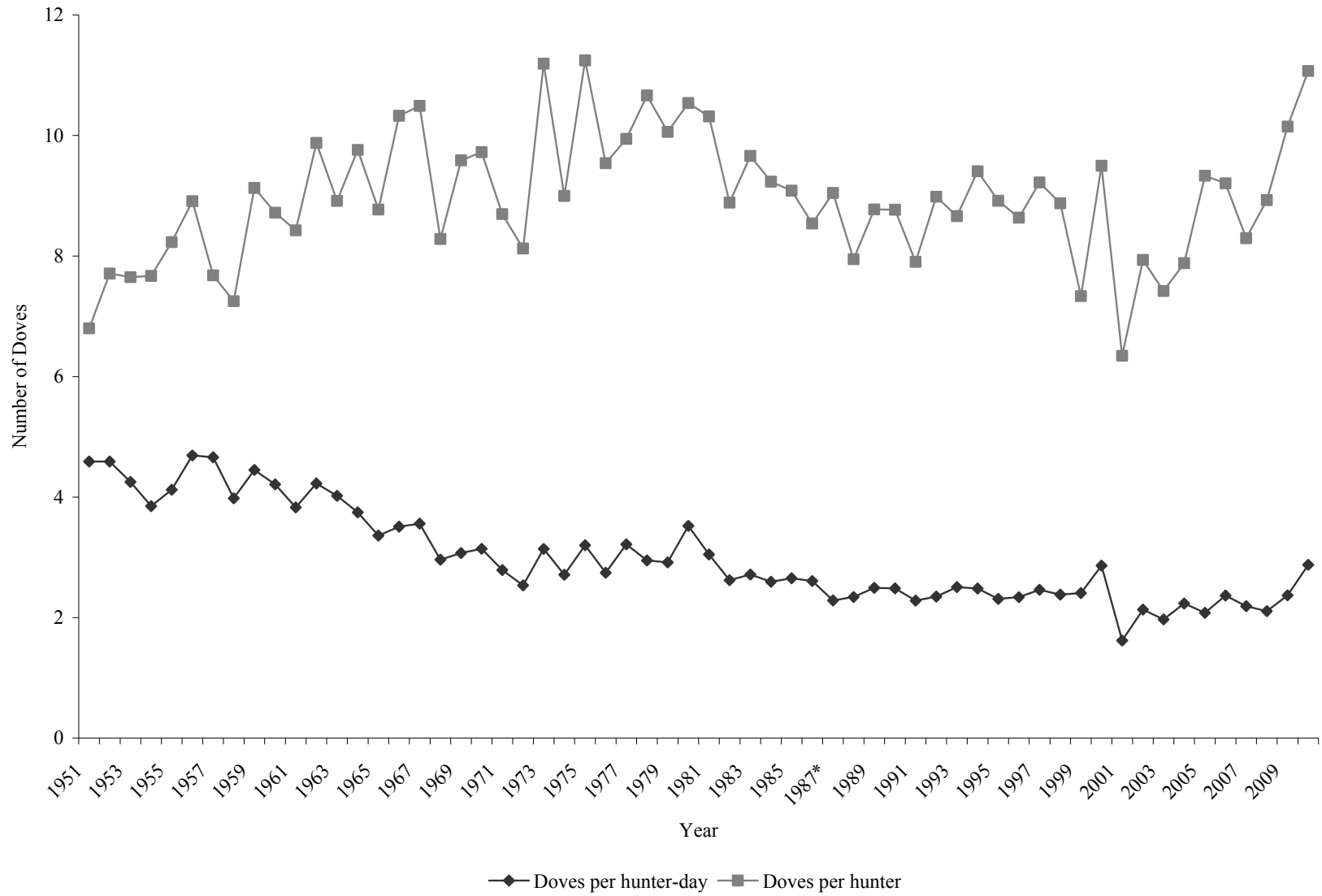
\*Route R1451 was discontinued after 2003 and replaced with route R1452.

Statewide trends of dove harvest statistics, Utah 1951–2010.



\* Beginning in 2005, hunters were allowed to harvest mourning doves, white-winged doves, and Eurasian-collared doves. Harvest numbers for those years include all species.

Statewide trends of dove hunter success, Utah 1951–2010.



\* Beginning in 2005, hunters were allowed to harvest mourning doves, white-winged doves, and Eurasian-collared doves. Harvest numbers for those years include all species.

## Dove harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Doves bagged	Doves / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	116	1327	4223	11563	2.74	9.6	9.2
Cache	83	950	3298	7178	2.18	7.5	5.7
Davis	27	309	1429	3948	2.76	3.3	3.1
Morgan	11	126	242	257	1.06	0.6	0.2
Rich	3	34	95	205	2.16	0.2	0.2
Summit	8	92	441	270	0.61	1.0	0.2
Weber	76	869	3288	9882	3.01	7.5	7.9
Regional total	324	3707	13016	33303	2.56	29.7	26.5
Central Region							
Juab	81	927	2426	7204	2.97	5.5	5.7
Salt Lake	13	149	473	1745	3.69	1.1	1.4
Sanpete	60	686	2237	9484	4.24	5.1	7.5
Tooele	126	1442	4097	11460	2.80	9.4	9.1
Utah	204	2334	7584	20562	2.71	17.3	16.3
Wasatch	14	160	630	1579	2.51	1.4	1.3
Regional total	498	5698	17447	52034	2.98	39.9	41.3
Southern Region							
Beaver	34	389	1513	4825	3.19	3.5	3.8
Garfield	6	69	168	629	3.74	0.4	0.5
Iron	32	366	966	3722	3.85	2.2	3.0
Kane	2	23	32	0	0.00	0.1	0.0
Millard	82	938	2647	10767	4.07	6.0	8.6
Piute	8	92	273	347	1.27	0.6	0.3
Sevier	38	435	2405	4461	1.85	5.5	3.5
Washington	43	492	1901	7704	4.05	4.3	6.1
Wayne	3	34	137	0	0.00	0.3	0.0
Regional total	248	2838	10042	32455	3.23	22.9	25.8
Northeastern Region							
Daggett	3	34	84	501	5.96	0.2	0.4
Duchesne	21	240	557	1373	2.46	1.3	1.1
Uintah	22	252	798	1784	2.24	1.8	1.4
Regional total	46	526	1439	3658	2.54	3.3	2.9
Southeastern Region							
Carbon	6	69	221	911	4.12	0.5	0.7
Emery	13	149	494	834	1.69	1.1	0.7
Grand	8	92	137	141	1.03	0.3	0.1
San Juan	11	126	357	783	2.19	0.8	0.6
Regional total	38	436	1209	2669	2.21	2.8	2.1
Unknown	17	194	609	1758	2.89	1.4	1.4
Statewide total*	994	11372	43761	125878	2.88	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

\*\*Hunters were allowed to harvest mourning doves, white-winged doves, and Eurasian-collared doves. Harvest numbers include all species.

Statewide dove harvest statistics, Utah 1951–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Doves / hunter-day	Doves / hunter
1951	3007	20448	4455	4.59	6.80
1952	6420	49498	10784	4.59	7.71
1953	9887	75636	17797	4.25	7.65
1954	9901	75941	19724	3.85	7.67
1955	9653	79444	19282	4.12	8.23
1956	10744	95729	20411	4.69	8.91
1957	11298	86769	18620	4.66	7.68
1958	11853	85934	21591	3.98	7.25
1959	12142	110856	24911	4.45	9.13
1960	12440	108477	25766	4.21	8.72
1961	15192	128001	33434	3.83	8.43
1962	14663	144826	34281	4.22	9.88
1963	18258	162769	40490	4.02	8.91
1964	19829	193538	51671	3.75	9.76
1965	18710	164087	48835	3.36	8.77
1966	20594	212696	60608	3.51	10.33
1967	25161	263949	74171	3.56	10.49
1968	25105	207922	70186	2.96	8.28
1969	29131	279311	90965	3.07	9.59
1970	23908	232469	73984	3.14	9.72
1971	26064	226645	81271	2.79	8.70
1972	29341	238354	94046	2.53	8.12
1973	27435	307062	97788	3.14	11.19
1974	34021	306076	112967	2.71	9.00
1975	37378	420308	131312	3.20	11.24
1976	31293	298505	108780	2.74	9.54
1977	26905	267487	83218	3.21	9.94
1978	35985	383696	130173	2.95	10.66
1979	34903	351161	120459	2.92	10.06
1980	32627	343851	97644	3.52	10.54
1981	30060	310068	101728	3.05	10.31
1982	31756	282188	107728	2.62	8.89
1983	28258	272979	100568	2.71	9.66
1984	30573	282307	108793	2.59	9.23
1985	28183	256045	96507	2.65	9.09
1986	26583	226985	87084	2.61	8.54
1987	22553	204030	89378	2.28	9.05

\*Bag limit increased to 15 in 1982, and then reduced to 10 in 1987.

\*\*Beginning in 2005, hunters were allowed to harvest mourning doves, white-winged doves, and Eurasian-collared doves. Harvest numbers include all species.

Statewide dove harvest statistics, Utah 1951–2010 (cont.).

Year	Total hunters	Total harvest	Hunter-days afield	Doves / hunter-day	Doves / hunter
1988	22457	178469	76219	2.34	7.95
1989	21696	190328	76372	2.49	8.77
1990	22700	199007	80076	2.49	8.77
1991	22632	178853	78405	2.28	7.90
1992	18021	161902	68937	2.35	8.98
1993	19725	170834	68143	2.51	8.66
1994	20743	195089	78594	2.48	9.41
1995	20896	186336	80688	2.31	8.92
1996	23180	200167	85613	2.34	8.64
1997	22594	208331	84638	2.46	9.22
1998	18030	160014	67234	2.38	8.87
1999	20926	153487	63796	2.41	7.33
2000	23916	227148	79356	2.86	9.50
2001	13715	86998	53736	1.62	6.34
2002	13619	108051	50644	2.13	7.93
2003	14625	108521	55067	1.97	7.42
2004	13210	104105	46606	2.23	7.88
2005	15849	147903	71138	2.08	9.33
2006	10904	100379	42453	2.36	9.21
2007	10017	83099	37971	2.19	8.30
2008	13430	119877	56898	2.11	8.93
2009	11023	111864	47205	2.37	10.15
2010	11372	125878	43761	2.88	11.07
Total (1951–2010)	1227094	11262687	4004960	—	—
Average (1951–2009)	20605	188759	67139	3.01	8.92
% change from previous year	3	13	-7	21	9
% change from average	-45	-33	-35	-5	24

\*Bag limit increased to 15 in 1982, and then reduced to 10 in 1987.

\*\*Beginning in 2005, hunters were allowed to harvest mourning doves, white-winged doves, and Eurasian-collared doves. Harvest numbers include all species.

Dove harvest by species, Utah 2006–2010.

Year	Mourning dove		White-winged dove		Eurasian-collared dove		Unknown		Total harvest
	Harvest	%	Harvest	%	Harvest	%	Harvest	%	
2006	91628	91.3	3954	3.9	2220	2.2	2577	2.6	100379
2007	73807	88.8	1948	2.3	2545	3.1	4799	5.8	83099
2008	102560	85.6	2584	2.2	11948	10.0	2785	2.3	119877
2009	96392	86.2	2650	2.4	10256	9.2	2566	2.3	111864
2010	87827	69.8	6242	5.0	28723	22.8	3086	2.5	125878

# FOREST GROUSE

Dusky (Blue) Grouse

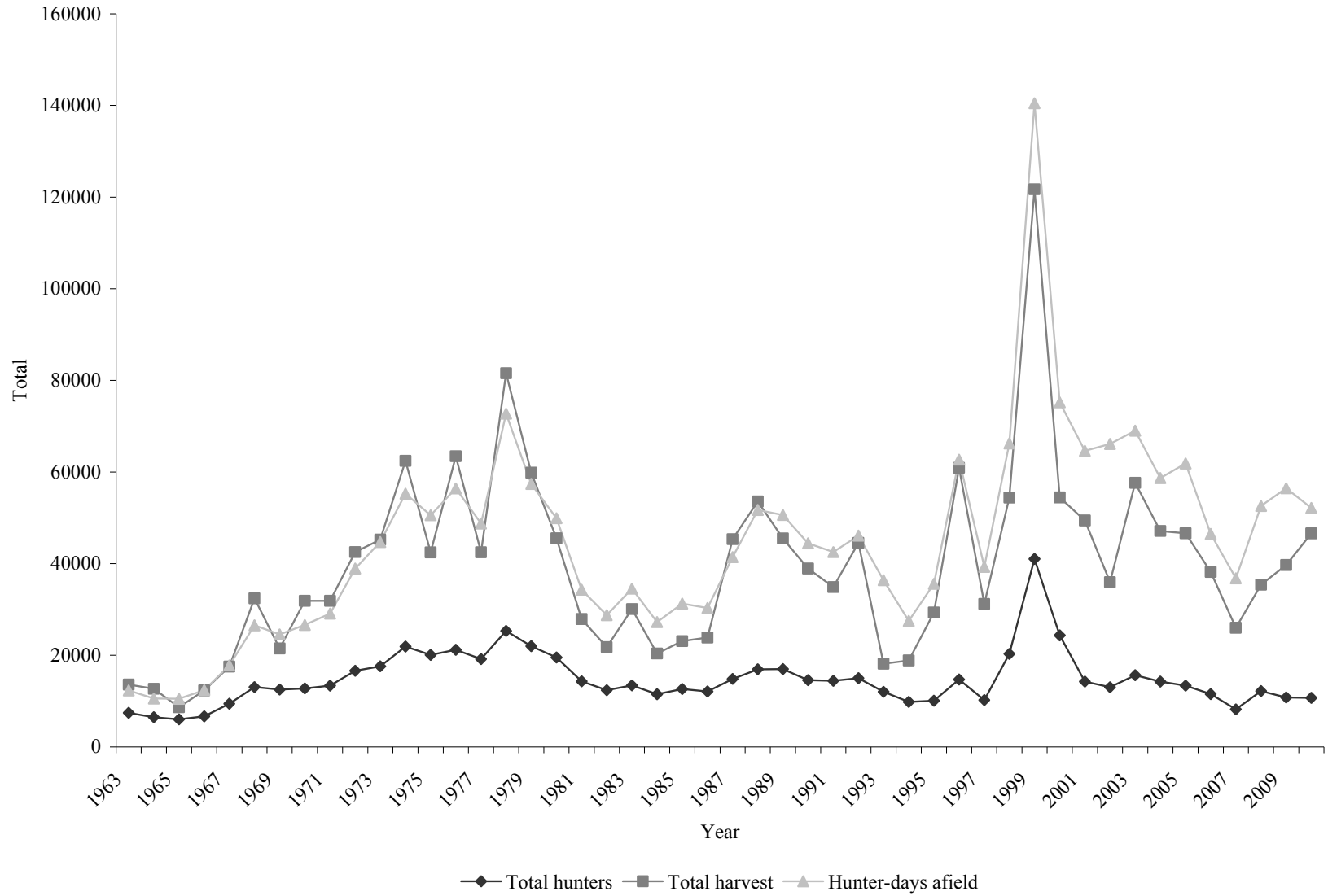


Ruffed Grouse

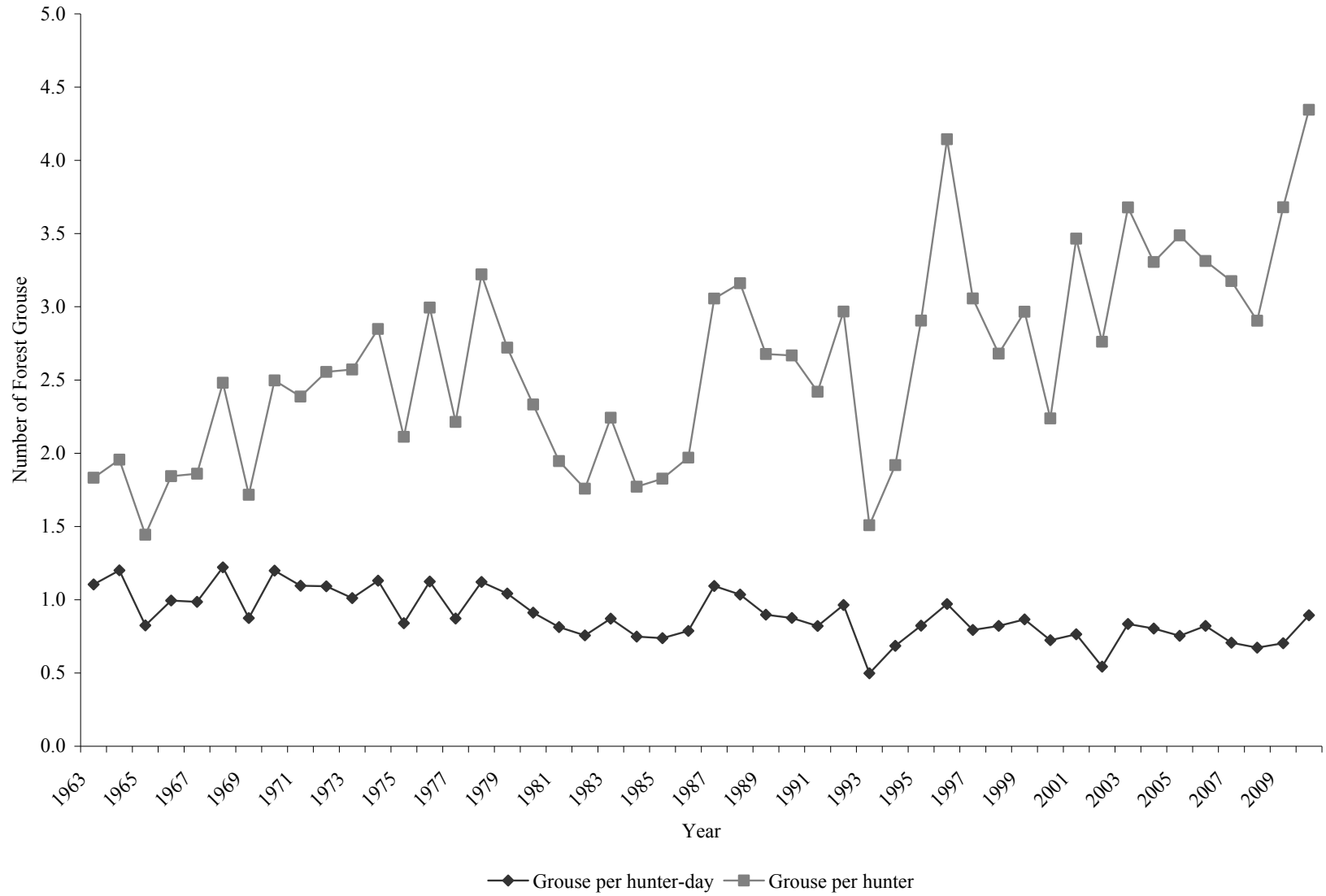




Statewide trends of forest grouse harvest statistics, Utah 1963–2010.



Statewide trends of forest grouse hunter success, Utah 1963–2010.



Forest grouse harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Grouse bagged	Grouse / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	44	441	1623	853	0.53	3.1	1.8
Cache	188	1884	7772	8981	1.16	14.9	19.3
Davis	55	551	1943	2444	1.26	3.7	5.2
Morgan	28	281	950	810	0.85	1.8	1.7
Rich	42	421	1633	1222	0.75	3.1	2.6
Summit	102	1022	4067	3737	0.92	7.8	8.0
Weber	68	682	2007	2259	1.13	3.8	4.8
Regional total	527	5282	19995	20306	1.02	38.3	43.6
Central Region							
Juab	21	210	715	583	0.82	1.4	1.3
Salt Lake	24	241	608	441	0.73	1.2	0.9
Sanpete	80	802	3235	2817	0.87	6.2	6.0
Tooele	21	210	651	384	0.59	1.2	0.8
Utah	155	1553	5284	5229	0.99	10.1	11.2
Wasatch	132	1323	6469	6125	0.95	12.4	13.1
Regional total	433	4339	16962	15579	0.92	32.5	33.4
Southern Region							
Beaver	23	231	683	554	0.81	1.3	1.2
Garfield	19	190	673	483	0.72	1.3	1.0
Iron	23	231	1142	1094	0.96	2.2	2.3
Kane	6	60	214	85	0.40	0.4	0.2
Millard	24	241	737	568	0.77	1.4	1.2
Piute	18	180	534	270	0.51	1.0	0.6
Sevier	61	611	2679	2089	0.78	5.1	4.5
Washington	7	70	256	114	0.45	0.5	0.2
Wayne	9	90	320	185	0.58	0.6	0.4
Regional total	190	1904	7238	5442	0.75	13.9	11.7
Northeastern Region							
Daggett	20	200	758	597	0.79	1.5	1.3
Duchesne	50	501	1377	1023	0.74	2.6	2.2
Uintah	49	491	1708	838	0.49	3.3	1.8
Regional total	119	1192	3843	2458	0.64	7.4	5.3
Southeastern Region							
Carbon	19	190	1089	909	0.83	2.1	2.0
Emery	18	180	865	753	0.87	1.7	1.6
Grand	12	120	619	156	0.25	1.2	0.3
San Juan	11	110	544	156	0.29	1.0	0.3
Regional total	60	600	3117	1974	0.63	6.0	4.2
Unknown	34	341	982	838	0.85	1.9	1.8
Statewide total*	1070	10724	52138	46598	0.89	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

Statewide forest grouse harvest statistics, Utah 1963–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1963	7425	13608	12313	1.11	1.83
1964	6487	12691	10566	1.20	1.96
1965	6005	8669	10504	0.83	1.44
1966	6683	12321	12387	0.99	1.84
1967	9420	17526	17773	0.99	1.86
1968	13061	32414	26537	1.22	2.48
1969	12523	21498	24572	0.87	1.72
1970	12775	31898	26619	1.20	2.50
1971	13363	31901	29100	1.10	2.39
1972	16640	42518	38940	1.09	2.56
1973	17588	45232	44738	1.01	2.57
1974	21920	62439	55258	1.13	2.85
1975	20102	42461	50579	0.84	2.11
1976	21186	63436	56422	1.12	2.99
1977	19188	42477	48746	0.87	2.21
1978	25318	81558	72732	1.12	3.22
1979	21993	59851	57404	1.04	2.61
1980	19511	45522	49899	0.91	2.33
1981	14329	27894	34305	0.81	1.95
1982	12384	21778	28767	0.76	1.76
1983	13414	30088	34530	0.87	2.24
1984	11511	20396	27244	0.75	1.77
1985	12646	23097	31290	0.74	1.83
1986	12117	23869	30312	0.79	1.97
1987	14831	45326	41428	1.09	3.06
1988	16947	53562	51726	1.04	3.16
1989	16987	45487	50631	0.90	2.68
1990	14591	38922	44452	0.83	2.53
1991	14421	34897	42517	0.82	2.42
1992	15000	44518	46136	0.96	2.97
1993	12029	18147	36390	0.50	1.51
1994	9827	18862	27510	0.68	1.92
1995	10088	29312	35591	0.82	2.91
1996	14702	60922	62711	0.97	4.14
1997	10206	31198	39304	0.79	3.06
1998	20310	54439	66256	0.82	2.68
1999	41041	121708	140478	0.87	2.97
2000	24338	54456	75199	0.72	2.24

Statewide forest grouse harvest statistics, Utah 1963–2010 (cont.).

Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
2001	14260	49412	64632	0.76	3.47
2002	13020	35949	66118	0.54	2.76
2003	15669	57633	69032	0.83	3.68
2004	14259	47130	58672	0.80	3.31
2005	13371	46631	61866	0.75	3.49
2006	11532	38201	46504	0.82	3.31
2007	8193	26012	36799	0.71	3.17
2008	12189	35408	52577	0.67	2.90
2009	10791	39702	56455	0.70	3.68
2010	10724	46598	52138	0.89	4.35
Total (1963–2010)	706913	1889574	2156659	—	—
Average (1963–2009)	14813	39212	44777	0.89	2.58
% change from previous year	-1	17	-8	27	18
% change from average	-28	19	16	0	68

Forest grouse harvest by species, Utah 1963–2010.

Year	Ruffed grouse		Dusky (Blue) grouse		Unknown grouse		Total harvest
	Harvest	%	Harvest	%	Harvest	%	
1963	5470	40.2	7372	54.2	766	5.6	13608
1964	5354	42.2	6685	52.7	652	5.1	12691
1965	3225	37.2	4924	56.8	520	6.0	8669
1966	6966	56.5	4659	37.8	696	5.6	12321
1967	8476	48.4	6773	38.6	2277	13.0	17526
1968	17048	52.6	12604	38.9	2762	8.5	32414
1969	9490	44.1	10419	48.5	1589	7.4	21498
1970	15590	48.9	13515	42.4	2793	8.8	31898
1971	15759	49.4	13749	43.1	2393	7.5	31901
1972	20648	48.6	19221	45.2	2649	6.2	42518
1973	7153	15.8	36846	81.5	1233	2.7	45232
1974	24561	39.3	32236	51.6	5642	9.0	62439
1975	15750	37.1	23138	54.5	3573	8.4	42461
1976	23551	37.1	35660	56.2	4225	6.7	63436
1977	15766	37.1	23455	55.2	3256	7.7	42477
1978	30340	37.2	46651	57.2	4567	5.6	81558
1979	23156	38.7	33070	55.3	3625	6.1	59851
1980	15457	34.0	27588	60.6	2477	5.4	45522
1981	8557	30.7	17852	64.0	1485	5.3	27894
1982	7509	34.5	12138	55.7	2131	9.8	21778
1983	11366	37.8	16955	56.4	1767	5.9	30088
1984	6780	33.2	12647	62.0	969	4.8	20396
1985	8701	37.7	13416	58.1	980	4.2	23097
1986	8819	36.9	14156	59.3	894	3.7	23869
1987	15811	34.9	28068	61.9	1447	3.2	45326
1988	19100	35.7	31556	58.9	2906	5.4	53562
1989	16323	35.9	27794	61.1	1370	3.0	45487
1990	11010	28.3	26115	67.1	1797	4.6	38922
1991	12073	34.6	21310	61.1	1514	4.3	34897
1992	15017	33.7	29146	65.5	355	0.8	44518
1993	6650	36.6	11040	60.8	457	2.5	18147
1994	6908	36.6	11865	62.9	89	0.5	18862
1995	13140	44.8	16172	55.2	0	0.0	29312
1996	29567	48.5	31355	51.5	0	0.0	60922
1997	14861	47.6	16337	52.4	0	0.0	31198
1998	12586	23.1	14773	27.1	27080	49.7	54439
1999	32018	26.3	28741	23.6	60949	50.1	121708
2000	28797	52.9	24321	44.7	1338	2.5	54456

Forest grouse harvest by species, Utah 1963–2010 (cont.).

Year	Ruffed grouse		Dusky (Blue) grouse		Unknown grouse		Total harvest
	Harvest	%	Harvest	%	Harvest	%	
2001	24257	49.1	23905	48.4	1250	2.5	49412
2002	16253	45.2	17151	47.7	2543	7.1	35947
2003	26716	46.4	30071	52.2	846	1.5	57633
2004	22400	47.5	23923	50.8	806	1.7	47129
2005	17068	36.6	25367	54.4	4196	9.0	46631
2006	15154	39.7	21784	57.0	1263	3.3	38201
2007	12064	46.4	11990	46.1	1958	7.5	26012
2008	15305	43.2	17798	50.3	2305	6.5	35408
2009	18239	45.9	19436	49.0	2027	5.1	39702
2010	17652	37.9	25056	53.8	3890	8.3	46598
Total (1963–2010)	734461	—	980803	—	174307	—	1889571
Average (1963–2009)	15251	39.9	20335	53.1	3626	7.0	39212
% change from previous year	-3	-18	29	10	92	64	17
% change from average	16	-5	23	1	7	19	19

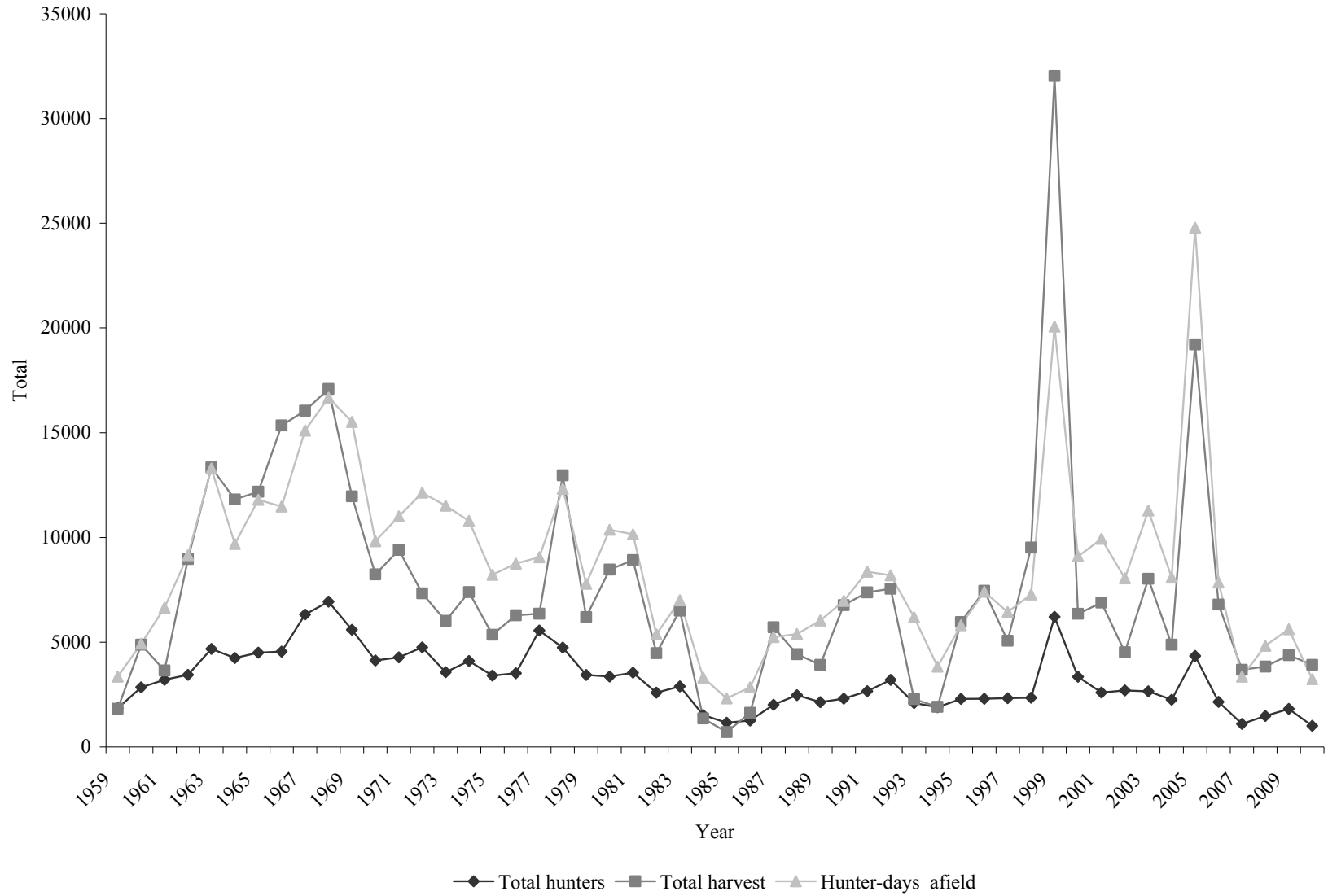
# HUNGARIAN PARTRIDGE



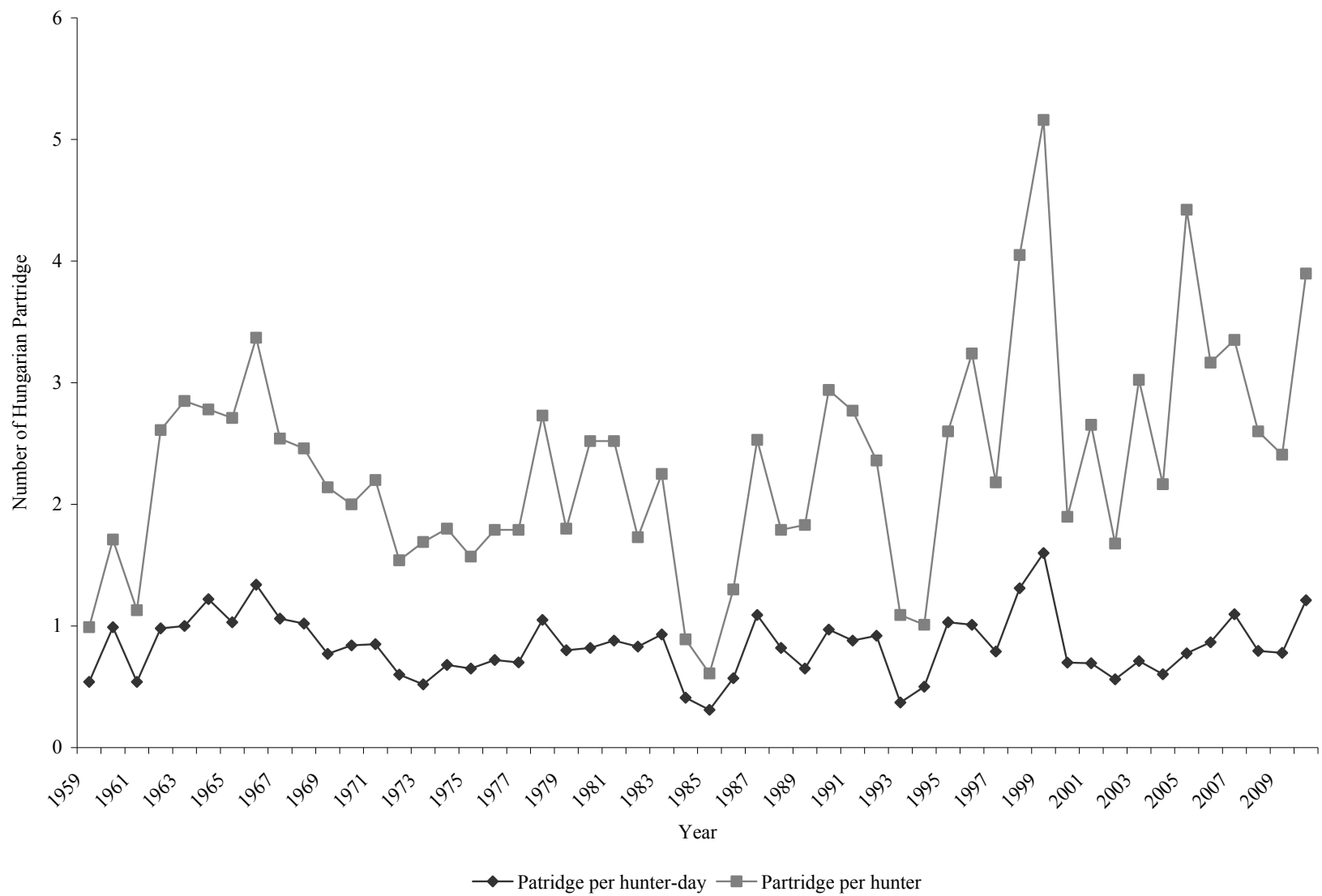
CLARK BRONSON



Statewide trends of Hungarian partridge harvest statistics, Utah 1959–2010.



Statewide trends of Hungarian partridge hunter success, Utah 1959–2010.



Hungarian partridge harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Partridges bagged	Partridges / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	92	671	1944	2662	1.37	60.1	67.9
Cache	34	248	671	858	1.28	20.7	21.9
Davis	0	—	—	—	—	—	—
Morgan	0	—	—	—	—	—	—
Rich	1	7	6	0	0.00	0.2	0.0
Summit	0	—	—	—	—	—	—
Weber	1	7	6	0	0.00	0.2	0.0
Regional total	128	933	2627	3520	1.34	81.2	89.8
Central Region							
Juab	0	—	—	—	—	—	—
Salt Lake	0	—	—	—	—	—	—
Sanpete	0	—	—	—	—	—	—
Tooele	1	7	25	0	0.00	0.8	0.0
Utah	2	15	51	33	0.65	1.6	0.9
Wasatch	2	15	152	111	0.73	4.7	2.8
Regional total	5	37	228	144	0.63	7.0	3.7
Southern Region							
Beaver	2	15	190	11	0.06	5.9	0.3
Garfield	0	—	—	—	—	—	—
Iron	0	—	—	—	—	—	—
Kane	0	—	—	—	—	—	—
Millard	0	—	—	—	—	—	—
Piute	0	—	—	—	—	—	—
Sevier	0	—	—	—	—	—	—
Washington	1	7	19	22	1.16	0.6	0.6
Wayne	0	—	—	—	—	—	—
Regional total	3	22	209	33	0.16	6.5	0.9
Northeastern Region							
Daggett	0	—	—	—	—	—	—
Duchesne	1	7	38	22	0.58	1.2	0.6
Uintah	0	—	—	—	—	—	—
Regional total	1	7	38	22	0.58	1.2	0.6
Southeastern Region							
Carbon	0	—	—	—	—	—	—
Emery	0	—	—	—	—	—	—
Grand	0	—	—	—	—	—	—
San Juan	0	—	—	—	—	—	—
Regional total	0	—	—	—	—	—	—
Unknown	7	51	133	200	1.50	4.1	5.1
Statewide total*	138	1006	3236	3920	1.21	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

Statewide Hungarian partridge harvest statistics, Utah 1955–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Partridges / hunter-day	Partridges / hunter
1955	—	—	—	—	0.39
1956	—	—	—	—	0.89
1957	—	—	—	—	0.45
1958	—	—	—	—	1.34
1959	1846	1820	3354	0.54	0.99
1960	2847	4877	4929	0.99	1.71
1961	3205	3648	6645	0.54	1.13
1962	3440	8970	9153	0.98	2.61
1963	4676	13343	13291	1.00	2.85
1964	4249	11812	9688	1.22	2.78
1965	4498	12183	11798	1.03	2.71
1966	4549	15348	11473	1.34	3.37
1967	6321	16049	15105	1.06	2.54
1968	6935	17089	16674	1.02	2.46
1969	5591	11966	15515	0.77	2.14
1970	4128	8236	9818	0.84	2.00
1971	4276	9407	11011	0.85	2.20
1972	4754	7335	12135	0.60	1.54
1973	3566	6014	11516	0.52	1.69
1974	4103	7389	10789	0.68	1.80
1975	3409	5358	8216	0.65	1.57
1976	3517	6287	8753	0.72	1.79
1977	5557	6360	9058	0.70	1.79
1978	4743	12969	12328	1.05	2.73
1979	3435	6200	7787	0.80	1.80
1980	3359	8466	10366	0.82	2.52
1981	3545	8916	10147	0.88	2.52
1982	2590	4475	5379	0.83	1.73
1983	2889	6506	6998	0.93	2.25
1984	1523	1360	3309	0.41	0.89
1985	1157	707	2314	0.31	0.61
1986	1257	1627	2843	0.57	1.30
1987	2010	5711	5246	1.09	2.53
1988	2471	4424	5392	0.82	1.79
1989	2136	3920	6035	0.65	1.83
1990	2305	6770	6976	0.97	2.94

Statewide Hungarian partridge harvest statistics, Utah 1955–2010 (cont.).

Year	Total hunters	Total harvest	Hunter-days afield	Partridges / hunter-day	Partridges / hunter
1991	2662	7376	8367	0.88	2.77
1992	3198	7553	8192	0.92	2.36
1993	2090	2280	6194	0.37	1.09
1994	1899	1916	3832	0.50	1.01
1995	2294	5967	5812	1.03	2.60
1996	2299	7455	7409	1.01	3.24
1997	2328	5071	6443	0.79	2.18
1998	2350	9515	7281	1.31	4.05
1999	6211	32036	20063	1.60	5.16
2000	3349	6355	9096	0.70	1.90
2001	2596	6889	9933	0.69	2.65
2002	2694	4520	8052	0.56	1.68
2003	2656	8030	11283	0.71	3.02
2004	2253	4877	8087	0.60	2.16
2005	4345	19214	24783	0.78	4.42
2006	2148	6798	7850	0.87	3.16
2007	1099	3683	3358	1.10	3.35
2008	1475	3834	4825	0.79	2.60
2009	1817	4376	5618	0.78	2.41
2010	1006	3920	3236	1.21	3.90
Totals (1955–2010)	165656	397207	453755	—	—
Average (1955–2009)	3228	7712	8834	0.83	2.29
% change from previous year	-45	-10	-42	56	62
% change from average	-69	-49	-63	47	70

# QUAIL

California Quail



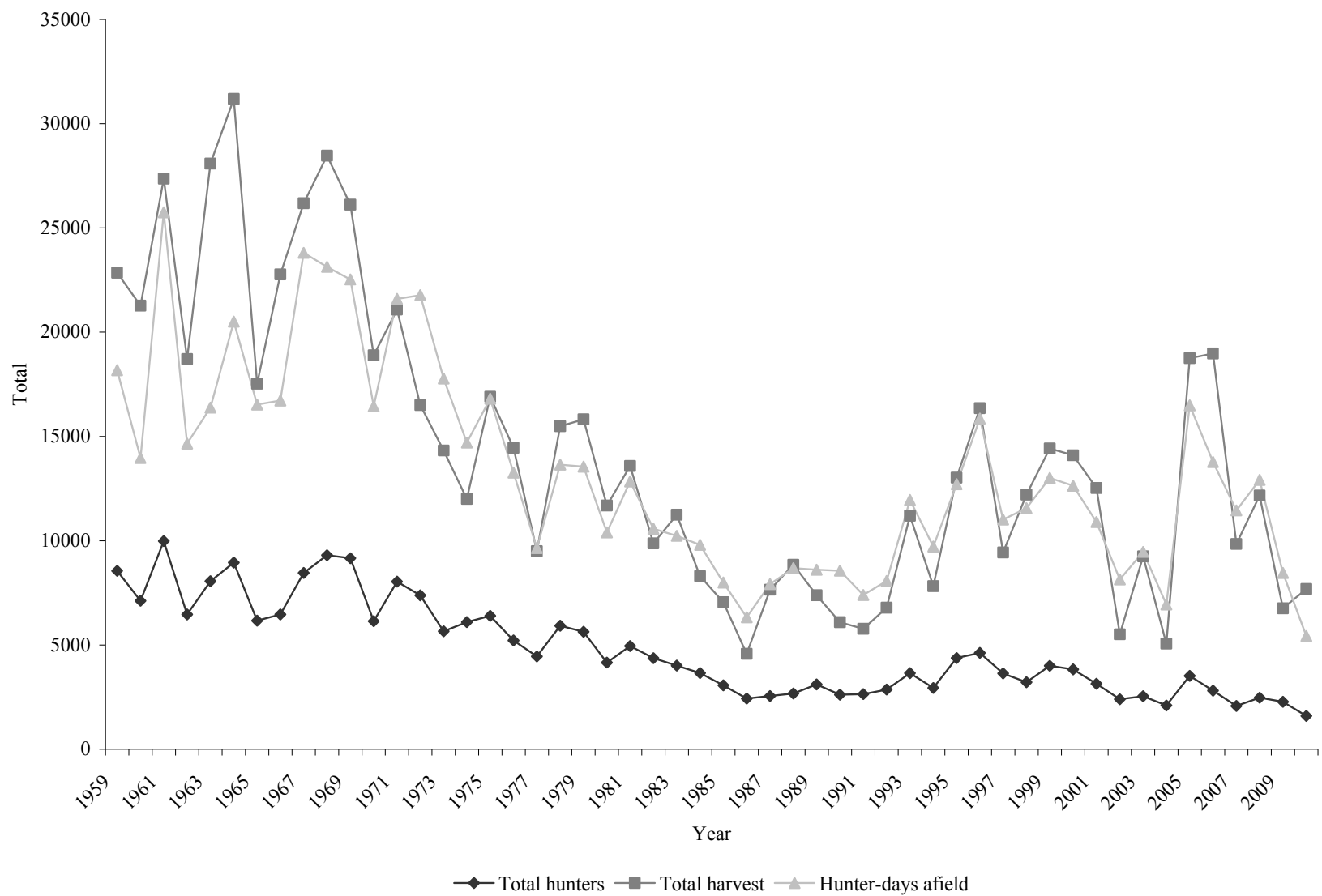
Gambel's Quail



Gambel's quail waterhole trend counts, west slope of Beaver Dam Mountains, Washington County, Utah 1980–2010.

Year	Total young	Total adults	Total quail	Young / 100 adults
1980	72	52	124	138
1981	37	25	62	148
1982	85	33	118	258
1983	114	14	128	814
1984	166	86	252	193
1985	47	11	58	427
1986	163	48	211	340
1987	348	139	487	250
1988	59	47	106	126
1989	35	18	53	194
1990	33	9	42	367
1991	208	35	243	594
1992	415	128	543	324
1993	465	158	623	294
1994	135	102	237	132
1995	33	17	50	194
1996	—	—	—	—
1997	61	21	82	290
1998	236	30	266	787
1999	66	82	148	80
2000	340	61	401	557
2001	228	143	371	159
2002	—	—	—	—
2003	267	59	326	453
2004	796	199	995	400
2005	251	55	306	456
2006	135	110	245	123
2007	0	16	16	0
2008	86	35	121	246
2009	87	26	113	335
2010	51	15	66	340
Average (1980–2009)	173	61	240	310
% change from previous year	-41	-42	-42	2
% change from average	-71	-75	-73	10

Statewide trends of quail harvest statistics, Utah 1959–2010.





Statewide trends of quail hunter success, Utah 1959–2010.



## Quail harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Quail bagged	Quail / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	6	60	102	272	2.67	1.9	3.5
Cache	0	—	—	—	—	—	—
Davis	2	20	55	0	0.00	1.0	0.0
Morgan	0	—	—	—	—	—	—
Rich	0	—	—	—	—	—	—
Summit	0	—	—	—	—	—	—
Weber	3	30	46	14	0.30	0.9	0.2
Regional total	11	110	203	286	1.41	3.7	3.7
Central Region							
Juab	1	10	9	0	0.00	0.2	0.0
Salt Lake	3	30	120	272	2.27	2.2	3.5
Sanpete	3	30	37	41	1.11	0.7	0.5
Tooele	2	20	139	95	0.68	2.6	1.2
Utah	23	229	647	1035	1.60	11.9	13.5
Wasatch	0	—	—	—	—	—	—
Regional total	32	319	952	1443	1.52	17.5	18.8
Southern Region							
Beaver	1	10	18	0	0.00	0.3	0.0
Garfield	0	—	—	—	—	—	—
Iron	2	20	46	0	0.00	0.9	0.0
Kane	0	—	—	—	—	—	—
Millard	4	40	74	68	0.92	1.4	0.9
Piute	0	—	—	—	—	—	—
Sevier	7	70	277	354	1.28	5.1	4.6
Washington	56	557	1794	3255	1.81	33.0	42.4
Wayne	0	—	—	—	—	—	—
Regional total	70	697	2209	3677	1.66	40.7	47.9
Northeastern Region							
Daggett	2	20	37	0	0.00	0.7	0.0
Duchesne	19	189	786	1321	1.68	14.5	17.2
Uintah	20	199	731	627	0.86	13.5	8.2
Regional total	41	408	1554	1948	1.25	28.6	25.4
Southeastern Region							
Carbon	2	20	74	0	0.00	1.4	0.0
Emery	6	60	277	68	0.25	5.1	0.9
Grand	0	—	—	—	—	—	—
San Juan	1	10	18	54	3.00	0.3	0.7
Regional total	9	90	369	122	0.33	6.8	1.6
Unknown	6	60	139	204	1.47	2.6	2.7
Statewide total*	161	1600	5428	7682	1.42	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

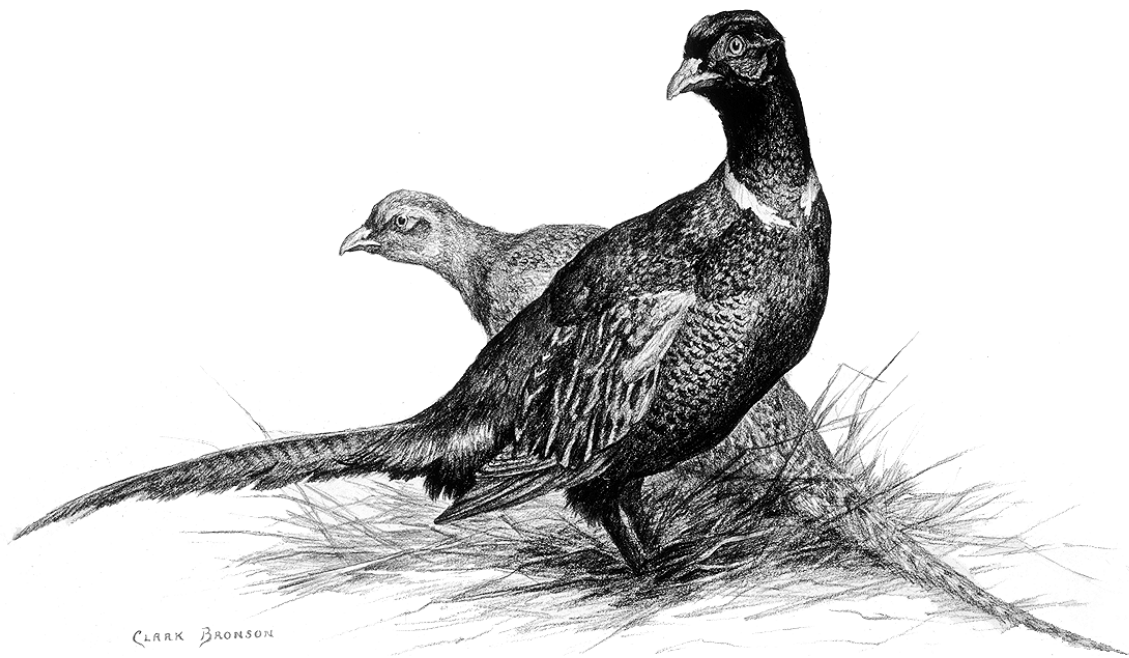
Statewide quail harvest statistics, Utah 1951–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Quail / hunter-day	Quail / hunter
1951	3856	6362	7069	0.90	1.65
1952	2694	6105	5500	1.11	2.27
1953	2676	5753	4494	1.28	2.15
1954	3855	7479	8696	0.86	1.94
1955	—	—	—	0.17	2.10
1956	—	—	—	—	2.26
1957	—	—	—	—	1.85
1958	—	—	—	—	3.73
1959	8554	22854	18174	1.26	2.67
1960	7117	21272	13971	1.52	2.99
1961	9980	27362	25746	1.06	2.74
1962	6462	18710	14660	1.27	2.89
1963	8059	28088	16383	1.71	3.49
1964	8951	31189	20510	1.52	3.48
1965	6163	17532	16528	1.06	2.45
1966	6465	22771	16720	1.36	3.52
1967	8455	26187	23806	1.10	3.10
1968	9302	28469	23132	1.23	3.06
1969	9160	26119	22529	1.16	2.85
1970	6141	18896	16452	1.15	3.08
1971	8039	21082	21595	0.98	2.62
1972	7380	16504	21779	0.76	2.24
1973	5654	14324	17777	0.81	2.53
1974	6097	12005	14702	0.82	1.97
1975	6397	16903	16805	1.01	2.64
1976	5215	14454	13261	1.09	2.77
1977	4446	9496	9646	0.98	2.14
1978	5924	15491	13649	1.13	2.61
1979	5632	15821	13550	1.17	2.81
1980	4156	11690	10400	1.12	2.81
1981	4946	13586	12843	1.06	2.75
1982	4368	9870	10575	0.93	2.26
1983	4012	11248	10232	1.10	2.81
1984	3654	8303	9805	0.85	2.27
1985	3065	7051	7994	0.88	2.30
1986	2432	4574	6326	0.72	1.88
1987	2549	7648	7918	0.97	3.00
1988	2671	8849	8682	1.02	3.31
1989	3111	7384	8607	0.86	2.37
1990	2614	6091	8561	0.71	2.33

Statewide quail harvest statistics, Utah 1951–2010 (cont.).

Year	Total hunters	Total harvest	Hunter-days afield	Quail / hunter-day	Quail / hunter
1991	2644	5775	7393	0.78	2.18
1992	2861	6788	8068	0.84	2.37
1993	3649	11192	11952	0.94	3.07
1994	2936	7822	9721	0.80	2.66
1995	4374	13023	12712	1.02	2.98
1996	4622	16351	15862	1.03	3.54
1997	3637	9436	11016	0.86	2.59
1998	3211	12213	11562	1.06	3.80
1999	4002	14422	13007	1.11	3.60
2000	3828	14093	12638	1.12	3.68
2001	3140	12528	10894	1.15	3.99
2002	2394	5508	8142	0.68	2.30
2003	2537	9254	9463	0.98	3.65
2004	2099	5064	6944	0.73	2.41
2005	3519	18756	16492	1.14	5.33
2006	2809	18979	13771	1.38	6.76
2007	2073	9844	11453	0.86	4.75
2008	2468	12164	12920	0.94	4.93
2009	2276	6760	8455	0.80	2.97
2010	1600	7682	5428	1.42	4.80
Total (1951–2010)	260931	765176	716970	—	—
Average (1951–2009)	4715	13773	12937	1.02	2.92
% change from previous year	-30	14	-36	77	62
% change from average	-66	-44	-58	39	64

# RING-NECKED PHEASANT



Statewide trends of ring-necked pheasant harvest statistics, Utah 1948–2010.



\*No data available for hunter-days afield in 1948.

\*\*Starting in 2001, harvest data are likely biased high due to hunters reporting harvest from commercial hunting areas.

Statewide trends of ring-necked pheasant hunter success, Utah 1948–2010.



\*No data available for hunter-days afield in 1948.

\*\*Starting in 2001, harvest data are likely biased high due to hunters reporting harvest from commercial hunting areas.

Ring-necked pheasant harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Pheasants bagged	Pheasants / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	275	3462	10267	7357	0.72	17.2	18.3
Cache	281	3538	11323	10144	0.90	19.0	25.2
Davis	89	1120	2776	1221	0.44	4.6	3.0
Morgan	3	38	160	0	0.00	0.3	0.0
Rich	4	50	61	44	0.72	0.1	0.1
Summit	4	50	49	29	0.59	0.1	0.1
Weber	132	1662	4569	2678	0.59	7.6	6.6
Regional total	788	9920	29205	21473	0.74	48.9	53.3
Central Region							
Juab	32	403	1056	692	0.66	1.8	1.7
Salt Lake	27	340	651	603	0.93	1.1	1.5
Sanpete	99	1246	3893	2575	0.66	6.5	6.4
Tooele	78	982	2542	1560	0.61	4.3	3.9
Utah	300	3777	10009	5534	0.55	16.8	13.7
Wasatch	3	38	295	795	2.69	0.5	2.0
Regional total	539	6786	18446	11759	0.64	30.9	29.2
Southern Region							
Beaver	9	113	282	795	2.82	0.5	2.0
Garfield	0	—	—	—	—	—	—
Iron	3	38	86	294	3.42	0.1	0.7
Kane	0	—	—	—	—	—	—
Millard	63	793	1916	1177	0.61	3.2	2.9
Piute	1	13	12	0	0.00	0.0	0.0
Sevier	61	768	2935	1043	0.36	4.9	2.6
Washington	9	113	368	213	0.58	0.6	0.5
Wayne	2	25	74	191	2.58	0.1	0.5
Regional total	148	1863	5673	3713	0.65	9.5	9.2
Northeastern Region							
Daggett	2	25	49	59	1.20	0.1	0.1
Duchesne	44	554	1449	1148	0.79	2.4	2.8
Uintah	50	629	2100	912	0.43	3.5	2.3
Regional total	96	1208	3598	2119	0.59	6.0	5.3
Southeastern Region							
Carbon	17	214	651	103	0.16	1.1	0.3
Emery	28	352	1339	280	0.21	2.2	0.7
Grand	1	13	49	0	0.00	0.1	0.0
San Juan	2	25	98	162	1.65	0.2	0.4
Regional total	48	604	2137	545	0.26	3.6	1.4
Unknown	25	315	688	692	1.01	1.2	1.7
Statewide total*	1438	18103	59747	40299	0.67	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

\*\*Harvest data are likely biased high due to possibility of hunters reporting harvest from commercial hunting areas.



Statewide ring-necked pheasant harvest statistics, Utah 1948–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Pheasants / hunter-day	Pheasants / hunter
1948	96534	280914	—	—	2.91
1949	88369	263340	189453	1.39	2.98
1950	92724	249428	235309	1.06	2.69
1951	76576	246575	171233	1.44	3.22
1952	78773	246559	185383	1.33	3.13
1953	82595	245307	176480	1.39	2.97
1954	82370	260289	201774	1.29	3.16
1955	78793	196195	178359	1.10	2.49
1956	77826	206239	182512	1.13	2.65
1957	83025	228319	170387	1.34	2.75
1958	88290	309015	220725	1.40	3.50
1959	86268	243276	202730	1.20	2.82
1960	81976	232812	177719	1.31	2.84
1961	83493	238439	243305	0.98	2.86
1962	86336	262448	209921	1.25	3.04
1963	87647	297873	198582	1.50	3.40
1964	88242	225775	196314	1.15	2.56
1965	77409	211876	186215	1.14	2.74
1966	78721	249814	209082	1.19	3.17
1967	85664	284000	257033	1.10	3.32
1968	90453	297752	267788	1.11	3.29
1969	90573	250241	277887	0.90	2.76
1970	78585	250503	244958	1.02	3.19
1971	87878	259189	294618	0.88	2.95
1972	84311	240573	327669	0.73	2.85
1973	75968	196012	278033	0.70	2.58
1974	85252	167408	282294	0.59	1.96
1975	77566	143783	234615	0.61	1.85
1976	74029	151476	214023	0.71	2.05
1977	67195	148168	191142	0.78	2.21
1978	83800	220398	257305	0.86	2.63
1979	87462	216700	266245	0.81	2.48
1980	84868	228442	249770	0.91	2.69
1981	83408	234217	265381	0.88	2.81
1982	85368	208437	280624	0.74	2.44
1983	77847	220074	265731	0.83	2.83
1984	76840	192190	258169	0.74	2.50
1985	69889	146807	233328	0.63	2.10

Statewide ring-necked pheasant harvest statistics, Utah 1948–2010 (cont.).

Year	Total hunters	Total harvest	Hunter-days afield	Pheasants / hunter-day	Pheasants / hunter
1986	59987	114389	207346	0.55	1.91
1987	57118	119236	199470	0.60	2.09
1988	54514	97658	184180	0.53	1.79
1989	50382	80769	177364	0.46	1.60
1990	47025	78944	161634	0.49	1.68
1991	42813	72612	150096	0.48	1.70
1992	41640	85803	150244	0.57	2.06
1993	39640	63336	141399	0.45	1.60
1994	36705	68698	129872	0.53	1.87
1995	38391	71202	142755	0.50	1.85
1996	41854	83987	157755	0.53	2.01
1997	37622	78693	140135	0.56	2.09
1998	35130	77889	126792	0.61	2.22
1999	36211	77545	120502	0.64	2.14
2000	41074	60108	114226	0.53	1.46
2001	26468	47521	97413	0.49	1.80
2002	22149	40048	76178	0.53	1.81
2003	20773	46382	77603	0.60	2.23
2004	13457	32532	48147	0.68	2.42
2005	26864	82671	112532	0.73	3.08
2006	16521	44971	57371	0.78	2.72
2007	13764	32121	48285	0.67	2.33
2008	16936	34189	59449	0.58	2.02
2009	16798	35211	55795	0.63	2.10
2010	18103	40299	59747	0.67	2.23
Total (1948–2010)	3994862	10417677	11478386	—	—
Average (1948–2009)	64141	167377	187191	0.85	2.48
% change from previous year	8	14	7	7	6
% change from average	-72	-76	-68	-21	-10

\*Starting in 2001, harvest data are likely biased high due to possibility of hunters reporting harvest from commercial hunting areas.

# SAGE-GROUSE



CARR BRANFORD

Statewide trends of average Greater sage-grouse\* males per occupied strutting ground, Utah 1959–2010.



\*Beginning with the 2010 report, strutting ground count tables were modified to split out Gunnison sage-grouse from Greater sage-grouse. Therefore, this chart has been modified from previous versions to reflect this change.

Greater sage-grouse strutting ground counts by county for the Northern Region, Utah 2001–2010.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
East Box Elder											
Number of strutting grounds visited	1	2	1	2	2	2	3	3	3	0	2
Number of strutting grounds occupied	1	0	1	2	1	0	1	0	0	0	1
Total male grouse counted	3	—	4	12	7	—	10	—	—	—	7
Average males / occupied ground	3.0	—	4.0	6.0	7.0	—	10.0	—	—	—	6.0
West Box Elder											
Number of strutting grounds visited	31	62	61	59	52	60	57	60	60	59	56
Number of strutting grounds occupied	26	41	46	49	43	45	41	44	36	41	41
Total male grouse counted	487	714	953	1182	1186	1098	905	701	329	395	839
Average males / occupied ground	18.7	17.4	20.7	24.1	27.6	24.4	22.1	15.9	9.1	9.6	20.0
Cache											
Number of strutting grounds visited	3	4	4	3	1	2	3	3	4	4	3
Number of strutting grounds occupied	2	2	1	1	1	2	3	2	3	4	2
Total male grouse counted	29	20	18	14	9	47	53	47	33	86	30
Average males / occupied ground	14.5	10.0	18.0	14.0	9.0	23.5	17.7	23.5	11.0	21.5	15.7
Morgan											
Number of strutting grounds visited	2	7	3	3	5	4	4	5	6	7	4
Number of strutting grounds occupied	1	2	2	2	4	2	2	3	4	5	2
Total male grouse counted	39	39	62	92	109	67	66	63	73	119	68
Average males / occupied ground	39.0	19.5	31.0	46.0	27.3	33.5	33.0	21.0	18.3	23.8	29.8
Rich (public land)											
Number of strutting grounds visited	18	21	23	22	17	20	19	28	25	25	21
Number of strutting grounds occupied	9	10	14	14	12	15	15	15	14	22	13
Total male grouse counted	231	174	259	391	543	586	605	681	790	815	473
Average males / occupied ground	25.7	17.4	18.5	27.9	45.3	39.1	40.3	45.4	56.4	37.0	35.1

Greater sage-grouse strutting ground counts by county for the Northern Region, Utah 2001–2010 (cont.).

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
Rich (private land)											
Number of strutting grounds visited	14	16	18	18	19	18	19	20	19	23	18
Number of strutting grounds occupied	14	16	18	18	19	18	19	18	19	23	18
Total male grouse counted	592	569	565	546	801	682	713	575	614	666	629
Average males / occupied ground	42.3	35.6	31.4	30.3	42.2	37.9	37.5	31.9	32.3	29.0	35.7
Summit											
Number of strutting grounds visited	1	9	3	6	6	3	4	4	4	3	4
Number of strutting grounds occupied	0	3	2	2	2	3	3	3	3	3	2
Total male grouse counted	—	16	24	27	23	28	33	55	40	52	31
Average males / occupied ground	—	5.3	12.0	13.5	11.5	9.3	11.0	18.3	13.3	17.3	11.8
Northern Region total											
Number of strutting grounds visited	70	121	113	113	102	109	109	123	121	121	109
Number of strutting grounds occupied	53	74	84	88	82	85	84	85	79	98	79
Total male grouse counted	1381	1532	1885	2264	2678	2508	2385	2122	1879	2133	2070
Average males / occupied ground	26.1	20.7	22.4	25.7	32.7	29.5	28.4	25.0	23.8	21.8	26.0

Greater sage-grouse strutting ground counts by county for the Central Region, Utah 2001–2010.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
<b>Juab</b>											
Number of strutting grounds visited	1	3	2	2	2	2	3	4	4	4	3
Number of strutting grounds occupied	0	2	2	1	1	1	3	4	4	4	2
Total male grouse counted	—	14	12	12	11	30	40	48	24	16	24
Average males / occupied ground	—	7.0	6.0	12.0	11.0	30.0	13.3	12.0	6.0	4.0	12.2
<b>Sanpete</b>											
Number of strutting grounds visited	—	—	—	—	—	—	—	—	—	—	—
Number of strutting grounds occupied	—	—	—	—	—	—	—	—	—	—	—
Total male grouse counted	—	—	—	—	—	—	—	—	—	—	—
Average males / occupied ground	—	—	—	—	—	—	—	—	—	—	—
<b>Tooele</b>											
Number of strutting grounds visited	4	4	4	4	7	10	8	9	8	10	6
Number of strutting grounds occupied	4	4	4	2	6	9	8	6	7	8	6
Total male grouse counted	118	143	91	66	227	244	191	72	83	106	137
Average males / occupied ground	29.5	35.8	22.8	33.0	37.8	27.1	23.9	12.0	11.9	13.3	26.0
<b>Utah</b>											
Number of strutting grounds visited	—	—	—	—	—	—	—	—	—	—	—
Number of strutting grounds occupied	—	—	—	—	—	—	—	—	—	—	—
Total male grouse counted	—	—	—	—	—	—	—	—	—	—	—
Average males / occupied ground	—	—	—	—	—	—	—	—	—	—	—
<b>Wasatch</b>											
Number of strutting grounds visited	2	2	2	4	3	2	1	2	2	2	2
Number of strutting grounds occupied	1	1	2	2	2	2	1	2	2	2	2
Total male grouse counted	36	24	68	84	86	146	65	69	77	76	73
Average males / occupied ground	36.0	24.0	34.0	42.0	43.0	73.0	65.0	34.5	38.5	38.0	43.3
<b>Central Region total</b>											
Number of strutting grounds visited	7	9	8	10	12	14	12	15	14	16	11
Number of strutting grounds occupied	5	7	8	5	9	12	12	12	13	14	9
Total male grouse counted	154	181	171	162	324	420	296	189	184	198	231
Average males / occupied ground	30.8	25.9	21.4	32.4	36.0	35.0	24.7	15.8	14.2	14.1	26.2

Greater sage-grouse strutting ground counts by county for the Southern Region, Utah 2001–2010.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
<b>Beaver</b>											
Number of strutting grounds visited	7	7	7	7	8	8	8	7	7	7	7
Number of strutting grounds occupied	4	4	4	4	3	4	5	5	5	5	4
Total male grouse counted	94	76	55	69	78	88	126	96	74	48	84
Average males / occupied ground	23.5	19.0	13.8	17.3	26.0	22.0	25.2	19.2	14.8	9.6	20.1
<b>Garfield</b>											
Number of strutting grounds visited	15	14	15	15	16	14	19	18	20	20	16
Number of strutting grounds occupied	9	10	10	12	10	10	12	12	13	10	11
Total male grouse counted	306	172	168	211	419	340	358	401	355	170	303
Average males / occupied ground	34.0	17.2	16.8	17.6	41.9	34.0	29.8	33.4	27.3	17.0	28.0
<b>Iron</b>											
Number of strutting grounds visited	7	7	7	7	7	12	19	17	17	18	11
Number of strutting grounds occupied	5	5	5	6	5	9	16	16	15	17	9
Total male grouse counted	86	83	52	63	72	151	332	293	263	231	155
Average males / occupied ground	17.2	16.6	10.4	10.5	14.4	16.8	20.8	18.3	17.5	13.6	15.8
<b>Kane</b>											
Number of strutting grounds visited	3	3	3	3	3	3	3	3	3	3	3
Number of strutting grounds occupied	1	1	1	1	1	1	1	1	1	1	1
Total male grouse counted	17	11	5	5	12	13	4	3	2	1	8
Average males / occupied ground	17.0	11.0	5.0	5.0	12.0	13.0	4.0	3.0	2.0	1.0	8.0
<b>Millard</b>											
Number of strutting grounds visited	—	—	—	—	—	—	—	—	—	—	—
Number of strutting grounds occupied	—	—	—	—	—	—	—	—	—	—	—
Total male grouse counted	—	—	—	—	—	—	—	—	—	—	—
Average males / occupied ground	—	—	—	—	—	—	—	—	—	—	—



Greater sage-grouse strutting ground counts by county for the Southern Region, Utah 2001–2010 (cont.).

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
<b>Piute</b>											
Number of strutting grounds visited	1	1	1	1	3	2	3	3	4	3	2
Number of strutting grounds occupied	1	1	1	1	3	2	3	3	4	3	2
Total male grouse counted	61	58	26	22	46	75	121	103	102	63	68
Average males / occupied ground	61.0	58.0	26.0	22.0	15.3	37.5	40.3	34.3	25.5	21.0	35.6
<b>Sevier</b>											
Number of strutting grounds visited	2	2	2	2	3	3	3	3	4	3	3
Number of strutting grounds occupied	2	2	2	2	3	3	3	3	4	3	3
Total male grouse counted	39	40	25	13	39	89	71	67	54	87	49
Average males / occupied ground	19.5	20.0	12.5	6.5	13.0	29.7	23.7	22.3	13.5	29.0	17.9
<b>Wayne</b>											
Number of strutting grounds visited	15	16	16	18	18	20	25	26	28	28	20
Number of strutting grounds occupied	11	11	11	14	16	19	25	23	24	22	17
Total male grouse counted	533	562	413	588	668	958	1035	789	508	427	673
Average males / occupied ground	48.5	51.1	37.5	42.0	41.8	50.4	41.4	34.3	21.2	19.4	40.9
<b>Southern Region total</b>											
Number of strutting grounds visited	50	50	51	53	58	62	80	77	83	82	63
Number of strutting grounds occupied	33	34	34	40	41	48	65	63	66	61	47
Total male grouse counted	1136	1002	744	971	1334	1714	2047	1752	1358	1027	1340
Average males / occupied ground	34.4	29.5	21.9	24.3	32.5	35.7	31.5	27.8	20.6	16.8	28.7

Greater sage-grouse strutting ground counts by county for the Northeastern Region, Utah 2001–2010.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
<b>Daggett</b>											
Number of strutting grounds visited	8	8	7	7	7	12	12	14	12	12	10
Number of strutting grounds occupied	5	4	4	6	7	12	9	7	7	6	7
Total male grouse counted	93	67	101	175	229	286	200	87	54	68	144
Average males / occupied ground	18.6	16.8	25.3	29.2	32.7	23.8	22.2	12.4	7.7	11.3	21.0
<b>Duchesne</b>											
Number of strutting grounds visited	2	6	7	8	13	16	21	16	15	19	12
Number of strutting grounds occupied	2	2	5	7	6	11	11	6	7	7	6
Total male grouse counted	55	33	54	39	69	137	151	102	86	106	81
Average males / occupied ground	27.5	16.5	10.8	5.6	11.5	12.5	13.7	17.0	12.3	15.1	14.1
<b>Uintah</b>											
Number of strutting grounds visited	22	28	28	35	39	44	44	42	45	42	36
Number of strutting grounds occupied	15	17	18	27	30	35	29	23	21	20	24
Total male grouse counted	276	344	310	492	545	634	478	272	233	241	398
Average males / occupied ground	18.4	20.2	17.2	18.2	18.2	18.1	16.5	11.8	11.1	12.1	16.6
<b>Wasatch</b>											
Number of strutting grounds visited	1	1	1	1	1	2	3	2	2	3	2
Number of strutting grounds occupied	1	0	0	0	1	1	0	0	1	0	0
Total male grouse counted	3	—	—	—	2	3	—	—	2	—	3
Average males / occupied ground	3.0	—	—	—	2.0	3.0	—	—	2.0	—	2.5
<b>Northeastern Region total</b>											
Number of strutting grounds visited	33	43	43	51	60	74	80	74	74	76	59
Number of strutting grounds occupied	23	23	27	40	44	59	49	36	36	33	37
Total male grouse counted	427	444	465	706	845	1060	829	461	375	415	624
Average males / occupied ground	18.6	19.3	17.2	17.7	19.2	18.0	16.9	12.8	10.4	12.6	16.7

Greater sage-grouse strutting ground counts by county for the Southeastern Region, Utah 2001–2010.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
Carbon											
Number of strutting grounds visited	12	13	18	19	12	19	19	17	18	18	16
Number of strutting grounds occupied	8	6	8	11	9	13	12	12	13	11	10
Total male grouse counted	133	68	68	143	121	223	223	173	188	119	149
Average males / occupied ground	16.6	11.3	8.5	13.0	13.4	17.2	18.6	14.4	14.5	10.8	14.2
Emery											
Number of strutting grounds visited	2	1	2	1	3	3	2	2	2	3	2
Number of strutting grounds occupied	0	0	0	1	2	2	2	2	1	1	1
Total male grouse counted	—	—	—	5	11	32	15	19	5	11	15
Average males / occupied ground	—	—	—	5.0	5.5	16.0	7.5	9.5	5.0	11.0	8.1
Southeastern Region total*											
Number of strutting grounds visited	14	14	20	20	15	22	21	19	20	21	18
Number of strutting grounds occupied	8	6	8	12	11	15	14	14	14	12	11
Total male grouse counted	133	68	68	148	132	255	238	192	193	130	159
Average males / occupied ground	16.6	11.3	8.5	12.3	12.0	17.0	17.0	13.7	13.8	10.8	13.6

\*Beginning with the 2010 report, strutting ground count tables were modified to split out Gunnison sage-grouse from Greater sage-grouse. Therefore, numbers in this table may not match the tables in reports prior to 2010.

Statewide trends of Greater sage-grouse\* strutting ground counts, Utah 1959–2010.

Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
1959	14	14	451	32.2
1960	16	16	550	34.4
1961	13	13	623	47.9
1962	14	14	472	33.7
1963	20	20	607	30.4
1964	15	14	296	21.1
1965	16	15	227	15.1
1966	21	19	321	16.9
1967	45	39	987	25.3
1968	64	56	1320	23.6
1969	83	77	3100	40.3
1970	99	93	2895	31.1
1971	119	98	2527	25.8
1972	122	104	2775	26.7
1973	109	89	2090	23.5
1974	146	124	2526	20.4
1975	127	104	2438	23.4
1976	133	116	2545	21.9
1977	160	138	3490	25.3
1978	138	112	2811	25.1
1979	127	99	3372	34.1
1980	113	84	2118	25.2
1981	172	126	3246	25.8
1982	117	96	2451	25.5
1983	132	105	2139	20.4
1984	59	42	817	19.5
1985	135	100	1838	18.4
1986	114	93	2021	21.7
1987	117	95	1985	20.9
1988	180	105	2763	26.3
1989	141	105	2906	27.7
1990	153	119	2860	24.0
1991	138	123	2536	20.6
1992	118	99	1853	18.7
1993	85	67	1171	17.5
1994	116	86	1357	15.8
1995	93	67	1072	16.0
1996	144	97	1555	16.0
1997	170	111	1944	17.5
1998	162	110	2342	21.3
1999	174	118	2875	24.4

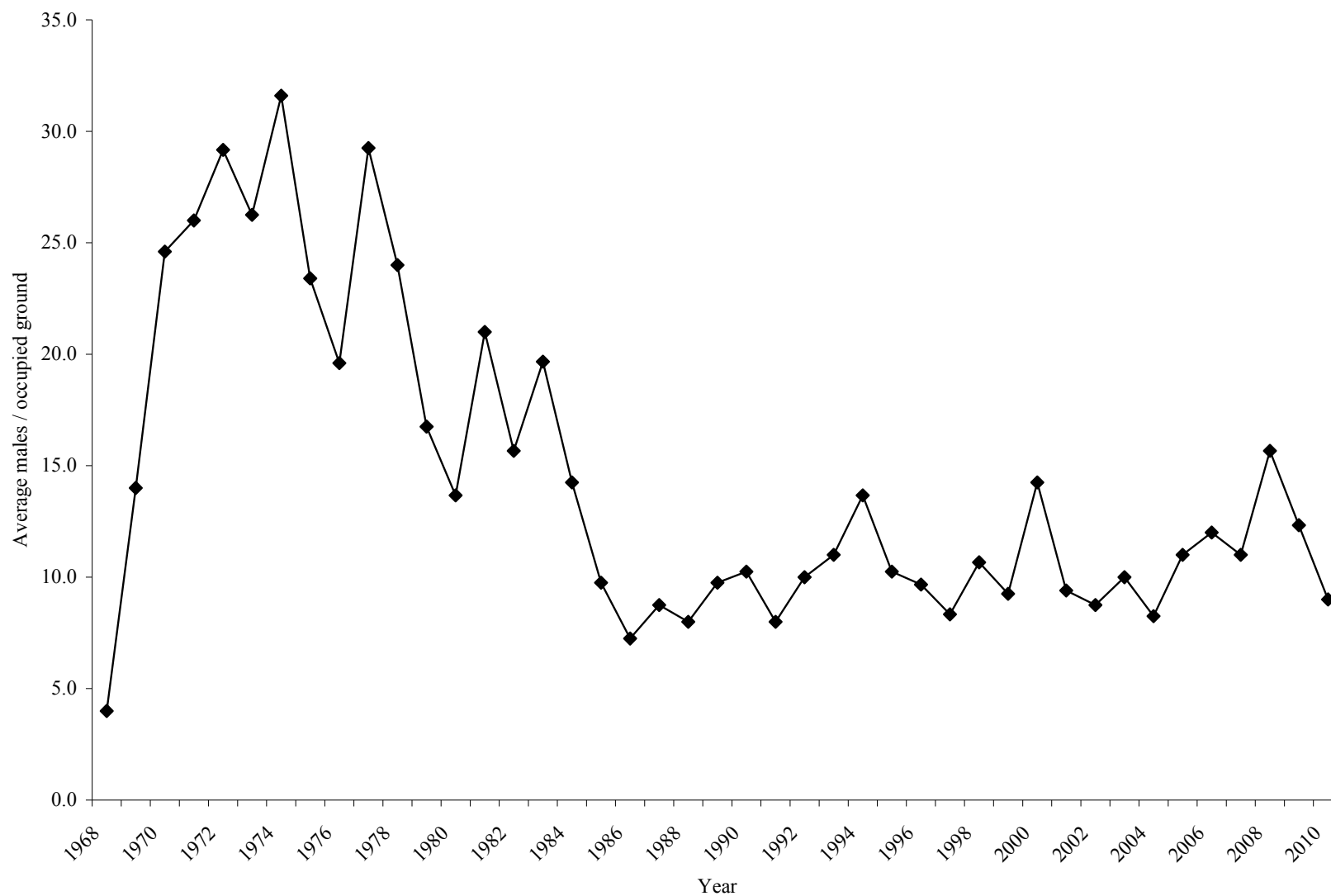
\*Beginning with the 2010 report, strutting ground count tables were modified to split out Gunnison sage-grouse from Greater sage-grouse. Therefore, numbers in this table may not match the tables in reports prior to 2010.

Statewide trends of Greater sage-grouse\* strutting ground counts, Utah 1959–2010 (cont.).

Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
2000	187	139	3566	25.7
2001	174	122	3231	26.5
2002	237	144	3227	22.4
2003	235	161	3333	20.7
2004	247	185	4251	23.0
2005	247	187	5313	28.4
2006	281	219	5957	27.2
2007	303	224	5795	25.9
2008	308	210	4716	22.5
2009	312	208	3989	19.2
2010	316	218	3903	17.9
Total (1959–2010)	7081	5339	125553	—
Average (1959–2009)	132.6	100.4	2385.3	24.4

\*\*Beginning with the 2010 report, strutting ground count tables were modified to split out Gunnison sage-grouse from Greater sage-grouse. Therefore, numbers in this table may not match the tables in reports prior to 2010.

Statewide trends of average Gunnison sage-grouse\* males per occupied strutting ground, Utah 1959–2010.



\*Beginning with the 2010 report, strutting ground count tables were modified to split out Gunnison sage-grouse from Greater sage-grouse.

Gunnison sage-grouse strutting ground counts, Utah 2001–2010.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
San Juan											
Number of strutting grounds visited	5	5	5	5	5	4	5	5	4	4	5
Number of strutting grounds occupied	5	4	3	4	3	2	4	3	3	2	3
Total male Grouse counted	47	35	30	33	33	24	44	47	37	18	37
Average males / occupied ground	9.4	8.8	10.0	8.3	11.0	12.0	11.0	15.7	12.3	9.0	10.9

Statewide trends of Gunnison sage-grouse strutting ground counts, Utah 1968–2010.

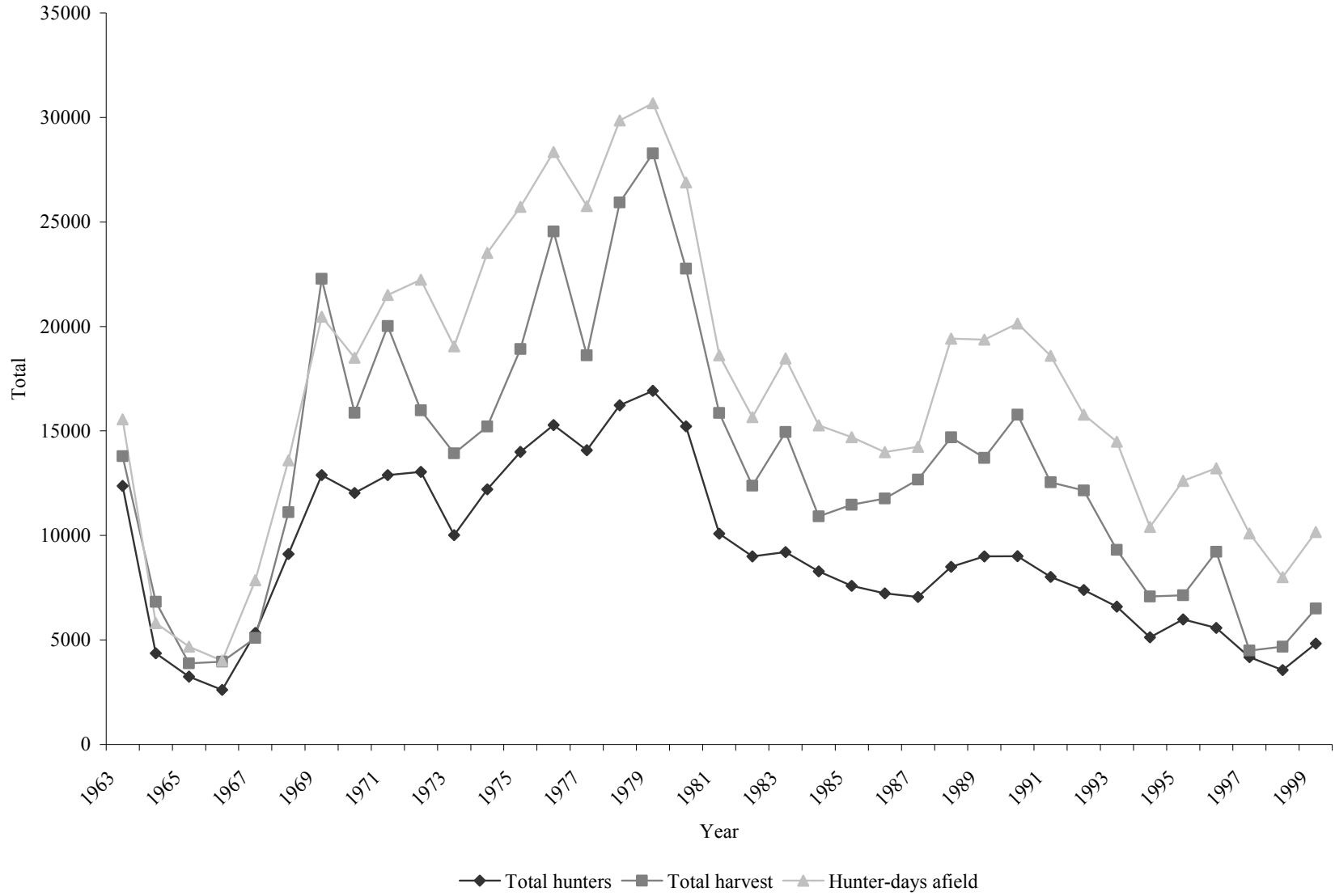
Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
1968	2	2	8	4.0
1969	3	3	42	14.0
1970	6	5	123	24.6
1971	6	6	156	26.0
1972	6	6	175	29.2
1973	6	4	105	26.3
1974	6	5	158	31.6
1975	6	5	117	23.4
1976	6	5	98	19.6
1977	5	4	117	29.3
1978	5	4	96	24.0
1979	4	4	67	16.8
1980	5	3	41	13.7
1981	4	3	63	21.0
1982	4	3	47	15.7
1983	4	3	59	19.7
1984	4	4	57	14.3
1985	4	4	39	9.8
1986	4	4	29	7.3
1987	4	4	35	8.8
1988	4	4	32	8.0
1989	4	4	39	9.8
1990	4	4	41	10.3
1991	4	4	32	8.0
1992	4	4	40	10.0
1993	4	4	44	11.0
1994	4	3	41	13.7
1995	4	4	41	10.3
1996	4	3	29	9.7
1997	4	3	25	8.3
1998	4	3	32	10.7
1999	5	4	37	9.3
2000	5	4	57	14.3
2001	5	5	47	9.4
2002	5	4	35	8.8
2003	5	3	30	10.0
2004	5	4	33	8.3
2005	5	3	33	11.0
2006	4	2	24	12.0
2007	5	4	44	11.0
2008	5	3	47	15.7



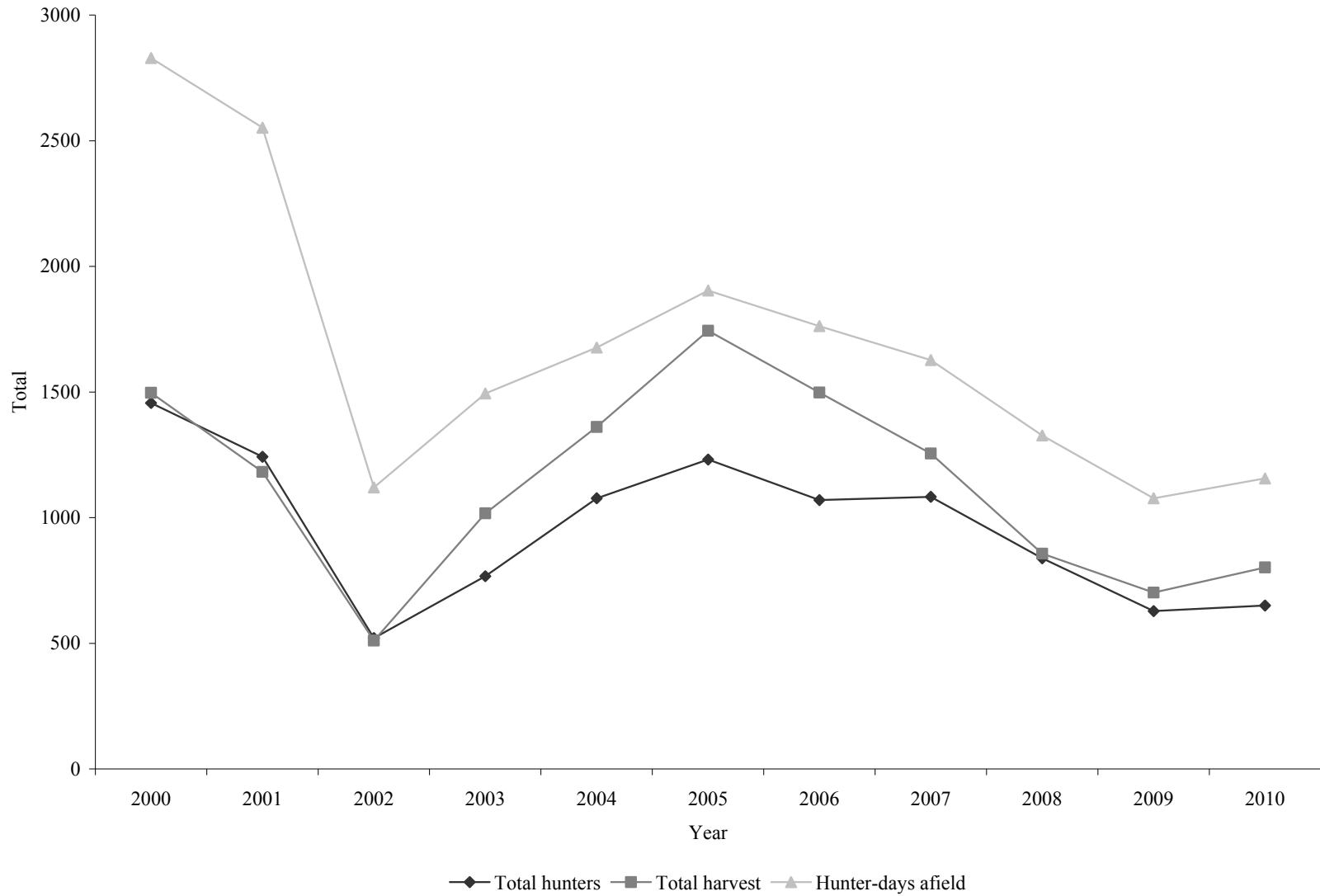
Statewide trends of Gunnison sage-grouse strutting ground counts, Utah 1968–2010 (cont.).

Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
2009	4	3	37	12.3
2010	4	2	18	9.0
Total (1959–2010)	195	162	2470	—
Average (1959–2009)	4.5	3.8	58.4	14.5

Statewide trends of Greater sage-grouse harvest statistics, Utah 1963–1999.

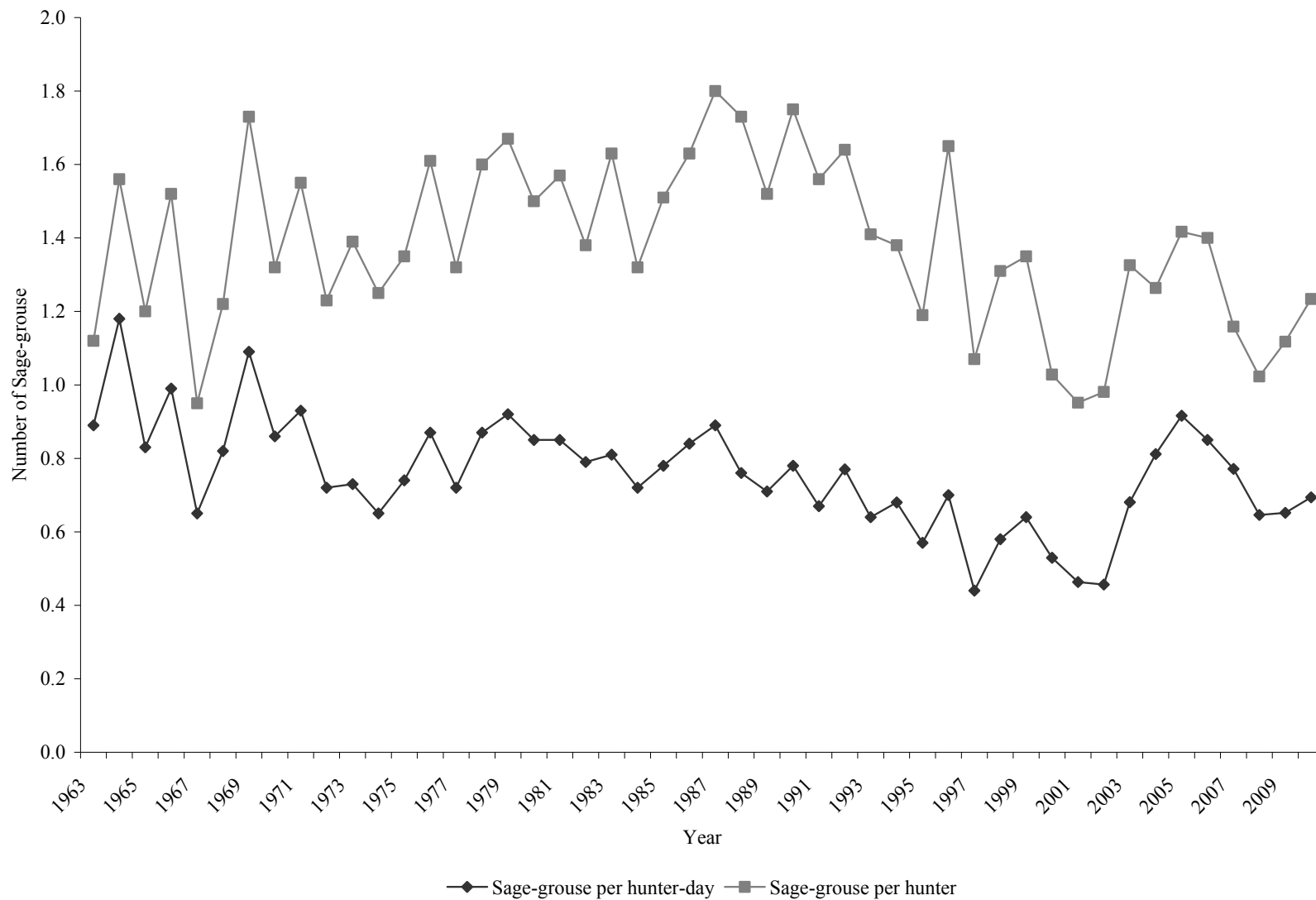


Statewide trends of Greater sage-grouse harvest statistics, Utah 2000–2010.



\*Beginning in 2000, a special permit was required to hunt sage-grouse, and permits were limited beginning in 2002.

Statewide trends of Greater sage-grouse hunter success, Utah 1963–2010.



\*Beginning in 2000, a special permit was required to hunt sage-grouse, and permits were limited beginning in 2002.

Greater sage-grouse harvest statistics by hunt unit, Utah 2010.

Hunt unit	Total permits	n	Hunters afield	Hunter-days afield	Grouse bagged	Grouse / hunter-day	Grouse / hunter	Percent success*
Parker Mountain	240	71	206	323	311	0.96	1.51	82.0
Rich	255	68	221	362	255	0.70	1.15	62.7
Diamond/Blue Mountain	72	34	51	138	64	0.46	1.25	75.0
West Box Elder	230	59	172	301	172	0.57	1.00	59.1
Statewide total	797	232	650	1156	802	0.70	1.23	68.8

\*Hunters could harvest 2 birds. Hunters were considered successful if they harvested at least 1 bird.

Statewide Greater sage-grouse harvest statistics, Utah 1951–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1951	840	2458	—	—	2.93
1952	678	2230	—	—	3.29
1953	895	2581	—	—	2.88
1954	802	2510	—	—	3.13
1955	579	1742	—	—	3.01
1956	495	1375	—	—	2.97
1957	470	1303	—	—	2.77
1958	567	1797	—	—	3.17
1959	699	1875	—	—	2.68
1960	861	2246	—	—	2.61
1961*	1078	1918	—	—	1.78
1962**	2382	5352	5097	1.05	1.89
1963	12366	13793	15564	0.89	1.12
1964	4362	6827	5807	1.18	1.56
1965	3243	3881	4673	0.83	1.20
1966	2612	3962	4006	0.99	1.52
1967	5336	5089	7860	0.65	0.95
1968	9115	11109	13601	0.82	1.22
1969	12894	22282	20466	1.09	1.73
1970	12036	15877	18506	0.86	1.32
1971	12893	20013	21509	0.93	1.55
1972	13040	15983	22232	0.72	1.23
1973	10017	13926	19049	0.73	1.39
1974	12214	15215	23516	0.65	1.25
1975	13996	18916	25720	0.74	1.35
1976	15283	24541	28342	0.87	1.61
1977	14078	18615	25759	0.72	1.32
1978	16231	25938	29861	0.87	1.60
1979	16927	28280	30682	0.92	1.67
1980	15219	22770	26893	0.85	1.50
1981	10083	15857	18617	0.85	1.57
1982	8997	12383	15663	0.79	1.38
1983	9201	14949	18467	0.81	1.63
1984	8283	10921	15266	0.72	1.32
1985	7586	11466	14702	0.78	1.51

The number of sage-grouse hunters and consequently harvest was limited by permits available from 1951–1962.

\*Harvest numbers were estimated in 1961.

\*\*Totals and indices are based on indiscrete data.

Statewide Greater sage-grouse harvest statistics, Utah 1951–2010 (cont.).

Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1986	7233	11766	13992	0.84	1.63
1987	7060	12673	14242	0.89	1.80
1988	8499	14692	19418	0.76	1.73
1989	9002	13710	19373	0.71	1.52
1990	9014	15784	20147	0.78	1.75
1991	8018	12542	18596	0.67	1.56
1992	7393	12156	15781	0.77	1.64
1993	6594	9311	14480	0.64	1.41
1994	5133	7084	10406	0.68	1.38
1995	5987	7133	12615	0.57	1.19
1996	5574	9220	13215	0.70	1.65
1997	4178	4489	10101	0.44	1.07
1998	3559	4676	8003	0.58	1.31
1999	4830	6503	10161	0.64	1.35
2000*	1456	1497	2829	0.53	1.03
2001	1242	1182	2552	0.46	0.95
2002	521	511	1120	0.46	0.98
2003	767	1017	1494	0.68	1.33
2004	1077	1361	1677	0.81	1.26
2005	1231	1744	1904	0.92	1.42
2006	1070	1498	1762	0.85	1.40
2007	1083	1255	1627	0.77	1.16
2008	838	857	1327	0.65	1.02
2009	628	702	1077	0.65	1.12
2010	650	802	1156	0.69	1.23
Total (1951–2010)	358995	534145	650913	—	—
Average (1951–2009)	6074	9040	13537	0.77	1.67
% change from previous year	4	14	7	6	10
% change from average	-89	-91	-91	-9	-26

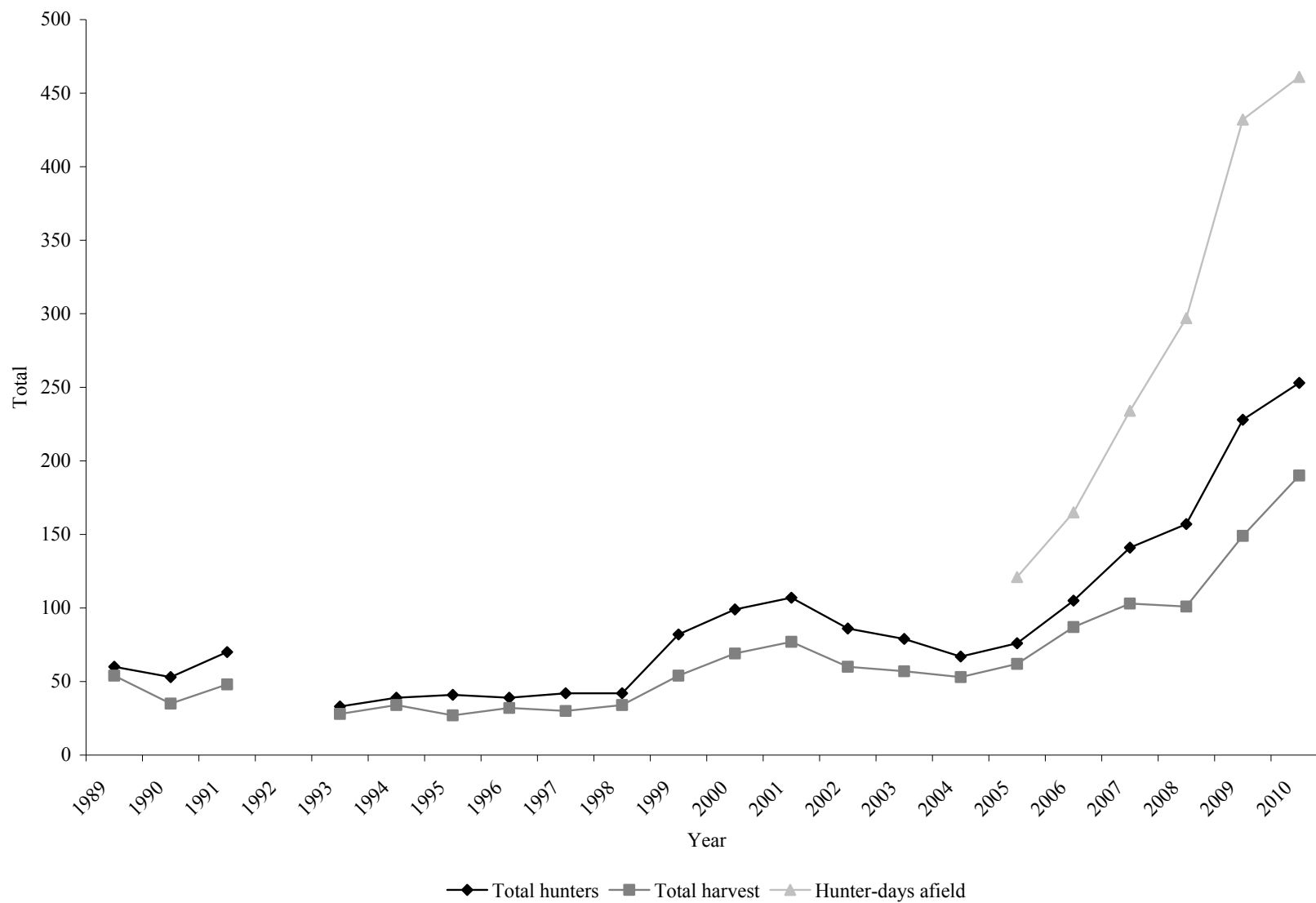
\*Beginning in 2000, a special permit was required to hunt sage-grouse, and permits were limited beginning in 2002.

## SANDHILL CRANE



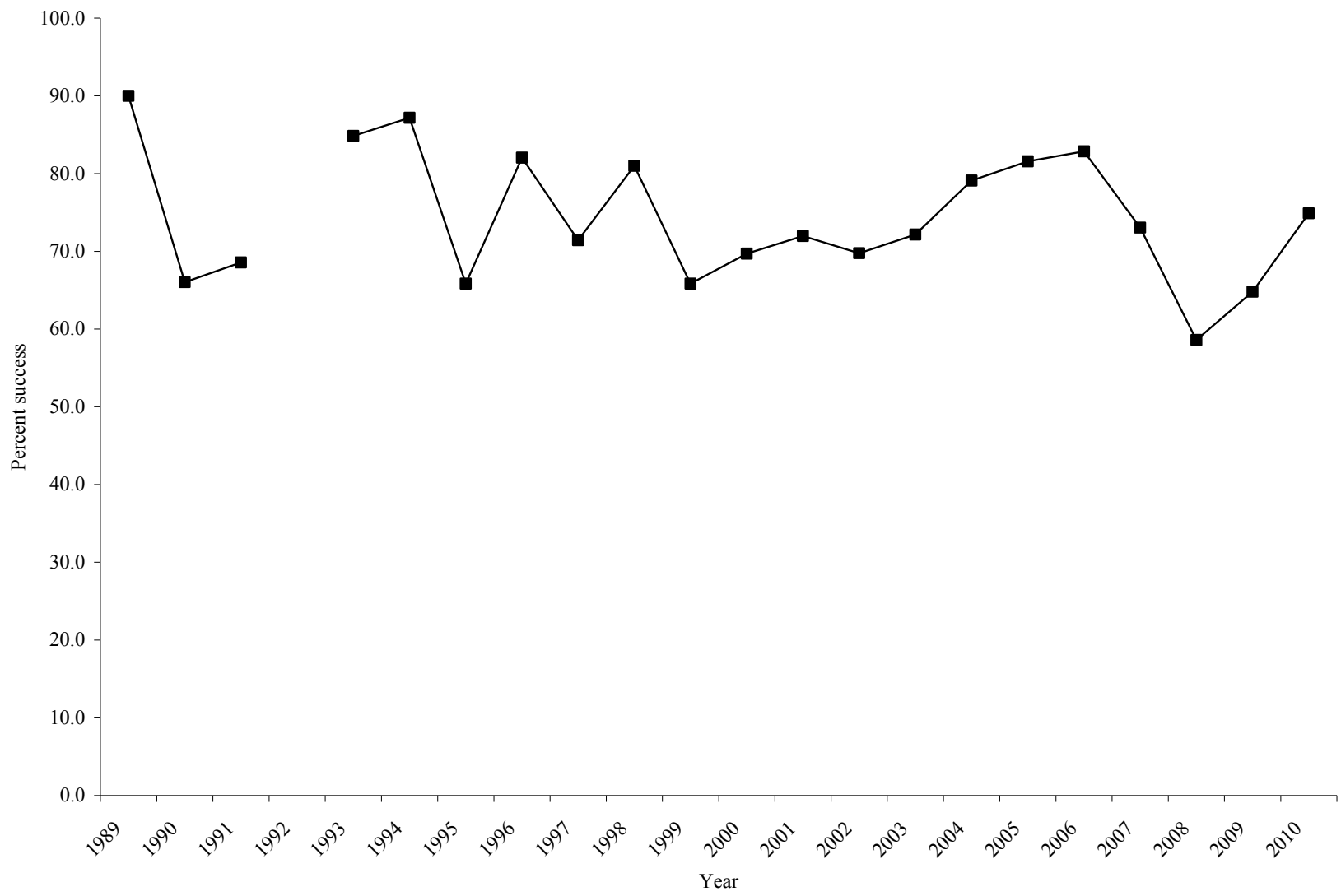


Statewide trends of sandhill crane harvest statistics, Utah 1989–2010.



\* No permits were issued in 1992.

Statewide trends of sandhill crane hunter success, Utah 1989–2010.



\*No permits were issued in 1992.

Sandhill crane harvest statistics by hunt area, Utah 2010.

Region and county	Total permits	n	Hunters afield	Hunter-days afield	Adult harvest	Young harvest	Total harvest	Crane / hunter-day	Percent success
Northern Region									
Box Elder County	46	37	44	56	37	0	37	0.67	85.7
Cache County	51	44	49	106	30	7	37	0.35	76.2
Rich County	33	30	26	52	19	2	21	0.40	79.2
Northeastern Region									
Uintah County	171	145	134	247	78	17	95	0.38	70.2
Total	301	256	253	461	164	26	190	0.41	74.9

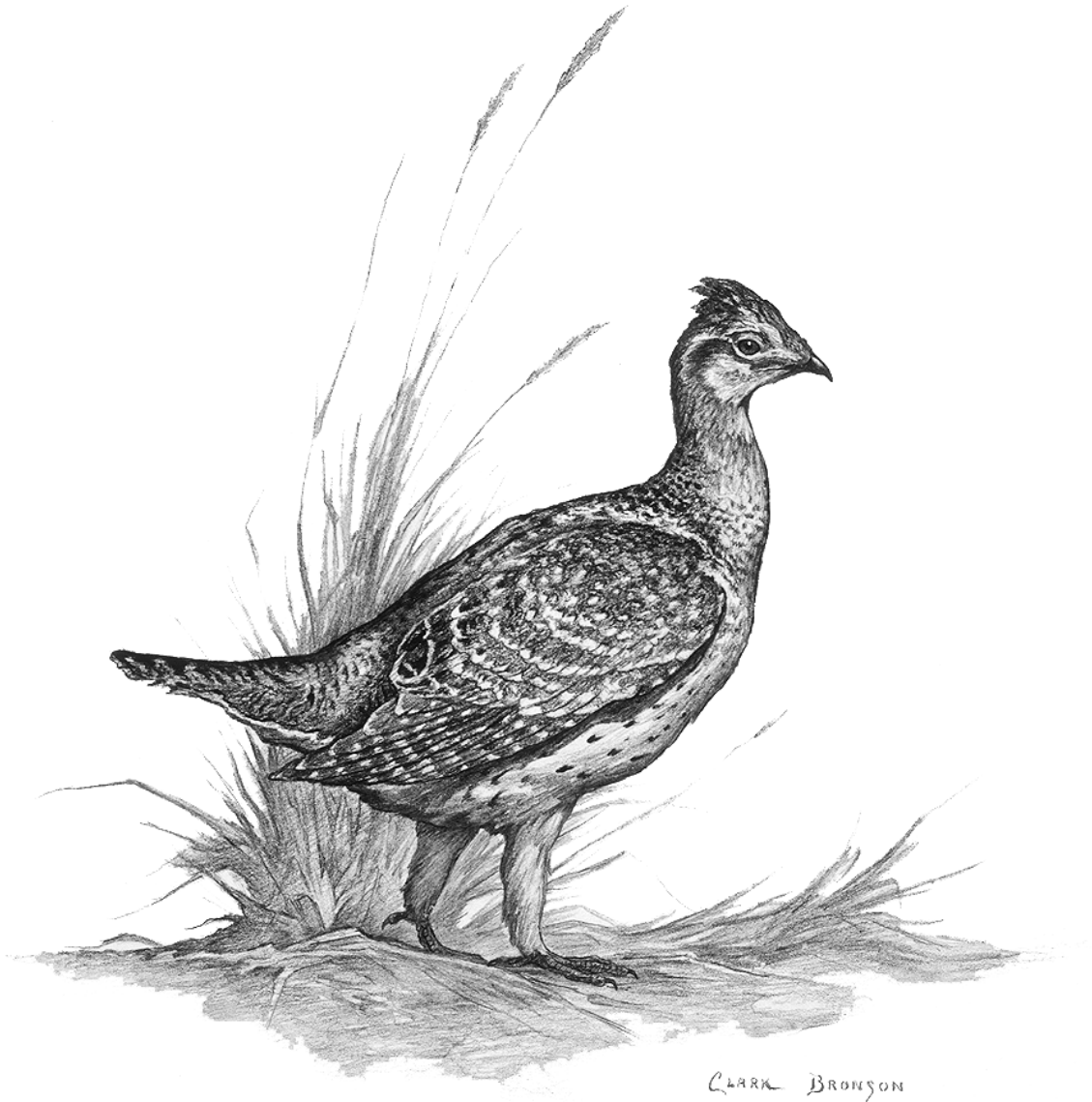
Statewide sandhill crane harvest statistics, Utah 1989–2010.

Year	Permits sold	Total hunters	Adult harvest	Young harvest	Total harvest	Hunter-days afield	Crane / hunter-day	Percent success
1989	100	60	49	5	54	—	—	90.0
1990	80	53	30	5	35	—	—	66.0
1991	100	70	44	4	48	—	—	68.6
1992	0	0	0	0	0	—	—	0.0
1993	50	33	26	2	28	—	—	84.8
1994	60	39	31	3	34	—	—	87.2
1995	60	41	26	1	27	—	—	65.9
1996	50	39	27	5	32	—	—	82.1
1997	50	42	27	3	30	—	—	71.4
1998	50	42	29	5	34	—	—	81.0
1999	100	82	47	7	54	—	—	65.9
2000	121	99	62	7	69	—	—	69.7
2001	122	107	70	7	77	—	—	72.0
2002	110	86	53	7	60	—	—	69.8
2003	93	79	50	7	57	—	—	72.2
2004	74	67	48	5	53	—	—	79.1
2005	93	76	54	8	62	121	0.51	81.6
2006	137	105	75	12	87	165	0.53	82.9
2007	165	141	94	9	103	234	0.44	73.0
2008	213	157	91	9	101*	297	0.34	58.6
2009	271	228	128	19	149**	432	0.34	64.8
2010	301	253	164	26	190	461	0.41	74.9
Total (1989–2010)	2400	1899	1225	156	1384	1710	—	—
Average (1989–2009)	105	82	53	7	60	250	0.43	74.3
% change from previous year	11	11	28	37	28	7	19	16
% change from average	187	207	209	300	218	85	-5	1

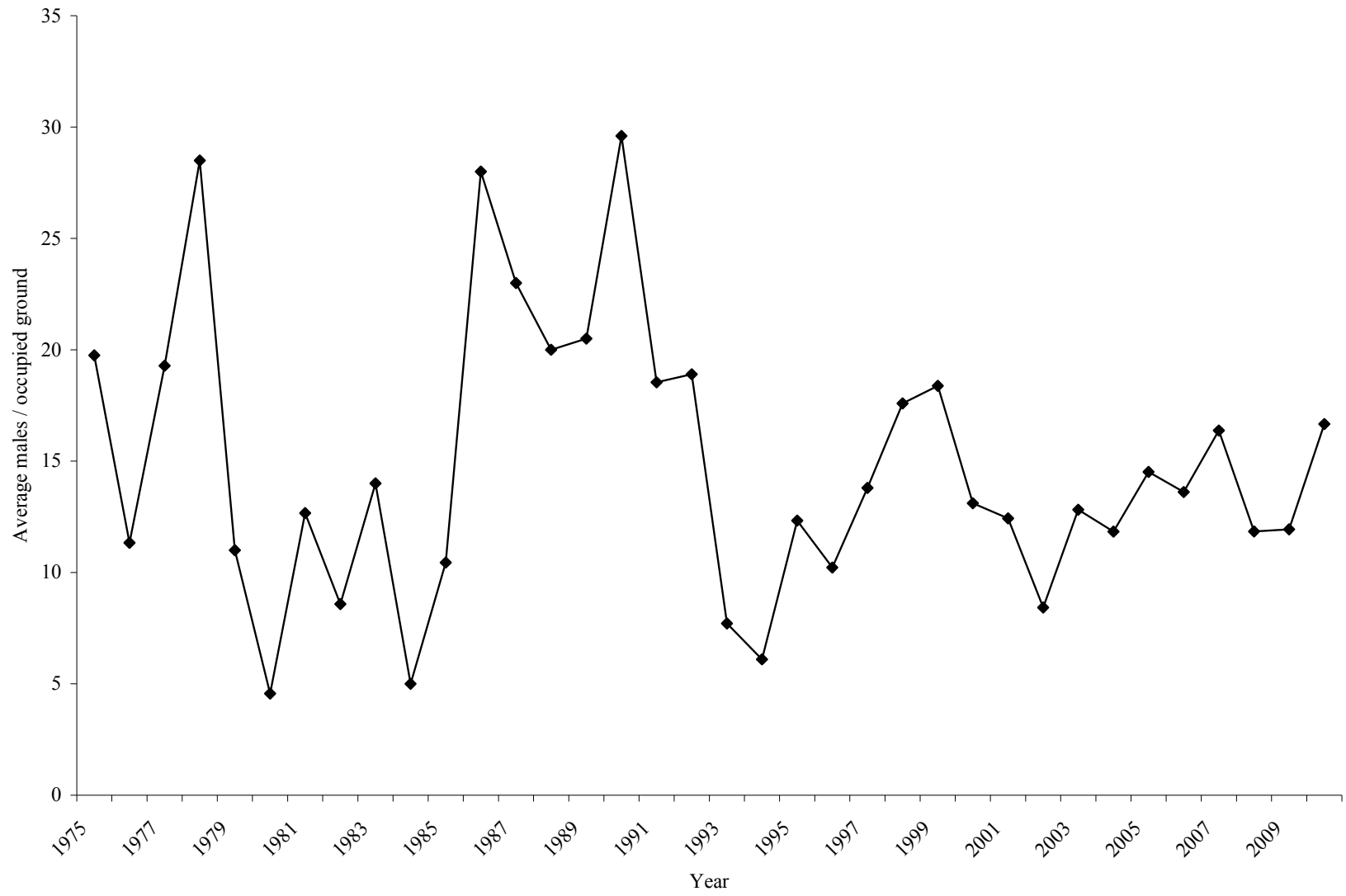
\* One crane of unknown age

\*\* Two cranes of unknown age

# SHARP-TAILED GROUSE



Statewide trends of average sharp-tailed grouse males per occupied strutting ground, Utah 1975–2010.



Strutting ground counts of sharp-tailed grouse by county, Utah 2001–2010.

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average (2001–2009)
<b>Box Elder</b>											
Number of strutting grounds visited	36	39	53	58	53	52	56	45	72	63	52
Number of strutting grounds occupied	20	26	40	43	40	38	39	31	38	42	35
Total male grouse counted	247	198	491	479	546	468	604	373	449	660	428
Average males / occupied grounds	12.4	7.6	12.3	11.1	13.7	12.3	15.5	12.0	11.8	15.7	12.1
<b>Cache</b>											
Number of strutting grounds visited	7	2	23	28	24	21	19	22	19	13	18
Number of strutting grounds occupied	1	2	9	21	17	13	9	7	8	6	10
Total male grouse counted	14	38	137	296	290	227	182	85	109	122	153
Average males / occupied grounds	14.0	19.0	15.2	14.1	17.1	17.5	20.2	12.1	13.6	20.3	15.9
<b>Morgan</b>											
Number of strutting grounds visited	—	—	—	3	1	1	—	2	1	2	2
Number of strutting grounds occupied	—	—	—	3	1	1	—	1	1	2	1
Total male grouse counted	—	—	—	18	6	13	—	4	3	53	9
Average males / occupied grounds	—	—	—	6.0	6.0	13.0	—	4.0	3.0	26.5	6.4
<b>Weber</b>											
Number of strutting grounds visited	—	—	—	—	—	—	—	—	—	1	—
Number of strutting grounds occupied	—	—	—	—	—	—	—	—	—	1	—
Total male grouse counted	—	—	—	—	—	—	—	—	—	15	—
Average males / occupied grounds	—	—	—	—	—	—	—	—	—	15.0	—
<b>Statewide total</b>											
Number of strutting grounds visited	43	41	76	89	78	74	75	69	92	79	71
Number of strutting grounds occupied	21	28	49	67	58	52	48	39	47	51	45
Total male grouse counted	261	236	628	793	842	708	786	462	561	850	586
Average males / occupied grounds	12.4	8.4	12.8	11.8	14.5	13.6	16.4	11.8	11.9	16.7	12.6

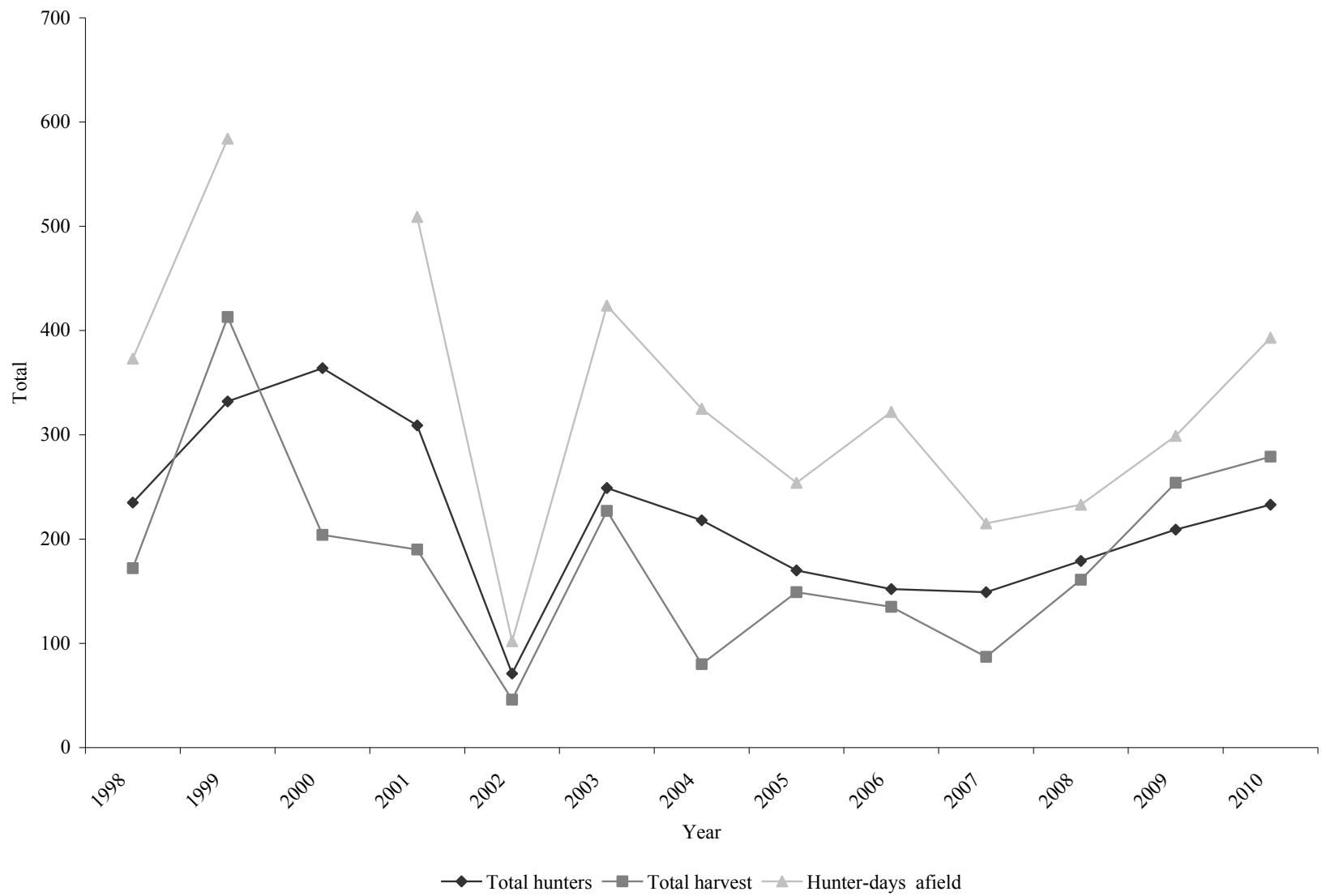
\*Only leks where birds were counted were used to calculate the average number of birds/lek.

Statewide trends of sharp-tailed grouse strutting ground counts, Utah 1975–2010.

Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
1975	4	4	79	19.8
1976	4	3	34	11.3
1977	8	7	135	19.3
1978	8	8	228	28.5
1979	17	17	187	11.0
1980	17	16	73	4.6
1981	15	15	190	12.7
1982	15	12	103	8.6
1983	7	7	98	14.0
1984	7	4	20	5.0
1985	9	9	94	10.4
1986	9	8	224	28.0
1987	10	10	230	23.0
1988	10	10	200	20.0
1989	10	10	205	20.5
1990	10	10	296	29.6
1991	26	26	482	18.5
1992	20	20	378	18.9
1993	14	14	108	7.7
1994	19	19	116	6.1
1995	12	3	37	12.3
1996	22	9	92	10.2
1997	8	5	69	13.8
1998	28	22	387	17.6
1999	45	42	772	18.4
2000	51	37	485	13.1
2001	43	21	261	12.4
2002	41	28	236	8.4
2003	76	49	628	12.8
2004	89	67	793	11.8
2005	78	58	842	14.5
2006	74	52	708	13.6
2007	75	48	786	16.4
2008	69	39	462	11.8
2009	92	47	561	11.9
2010	79	51	850	16.7
Total (1975–2010)	1121	807	11449	533
Average (1975–2009)	29.8	21.6	302.8	14.8

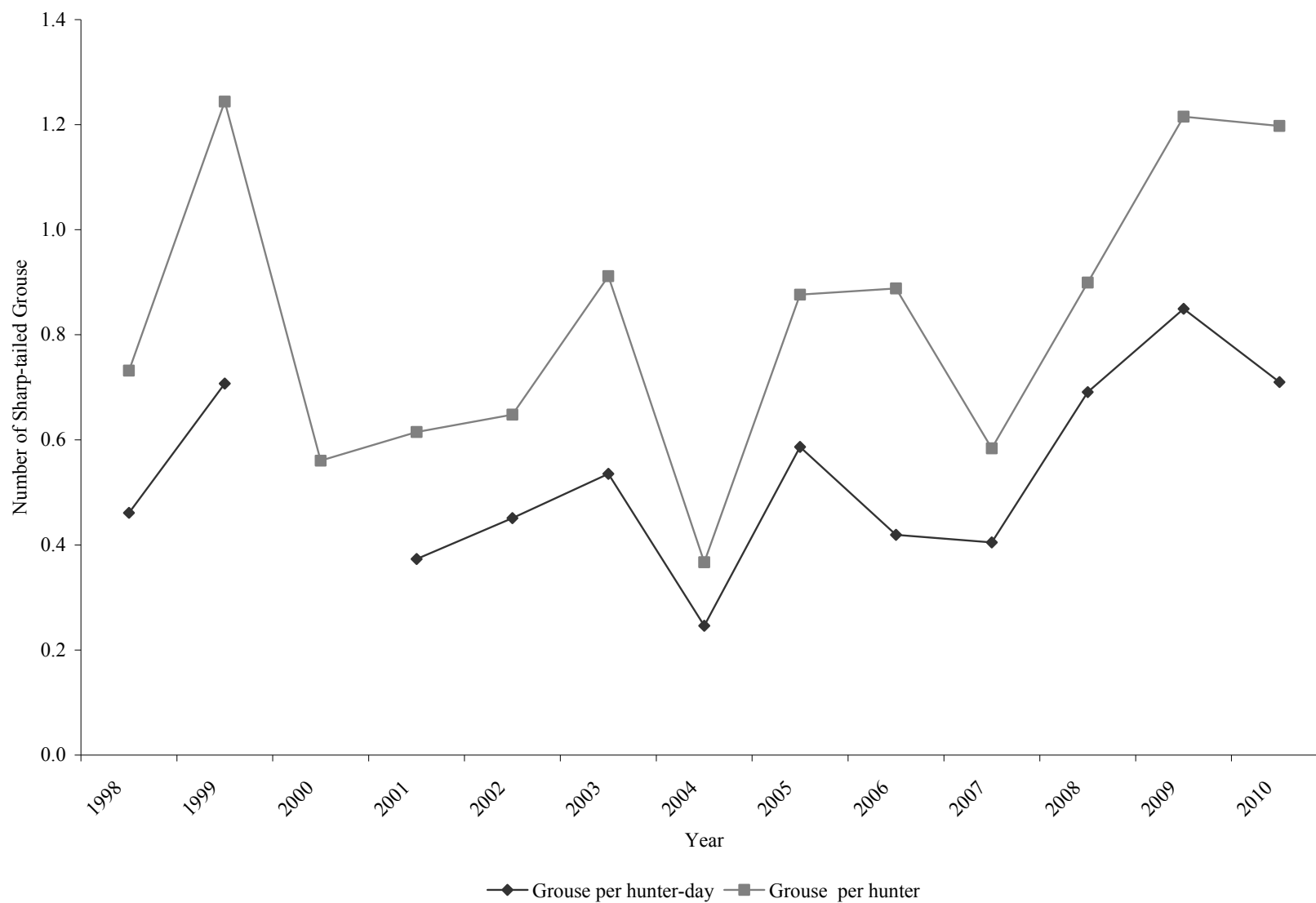


Statewide trends of sharp-tailed grouse harvest statistics, Utah 1998–2010.



\*Hunter-days afield data was not collected in 2000.

Statewide trends of sharp-tailed grouse hunter success, Utah 1998–2010.



\*Hunter-days afield data was not collected in 2000.

Sharp-tailed grouse harvest statistics by hunt area, Utah 2010.

Hunt area	Total permits	n	Hunters afield	Hunter-days afield	Grouse bagged	Grouse / hunter-day	Grouse / hunter	Percent success*
Box Elder County	248	66	165	192	269	0.71	1.16	65.9
Cache County	85	39	68	87	124	0.70	1.29	74.2
Total*	333	105	233	279	393	0.71	1.20	69.3

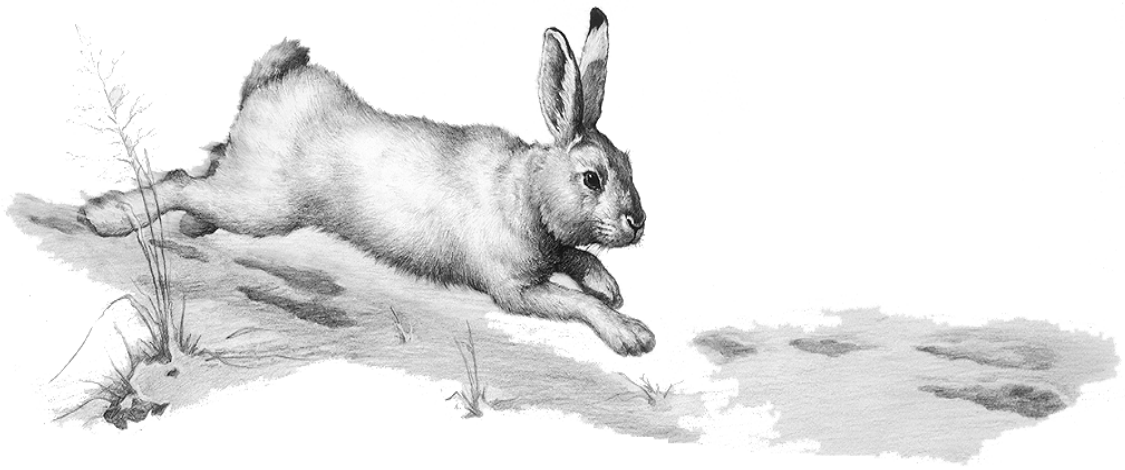
\*Hunters could harvest 2 birds. Hunters were considered successful if they harvested at least 1 bird.

Statewide sharp-tailed grouse harvest statistics, Utah 1998–2010.

Year	Permits sold	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1998	378	235	172	373	0.46	0.73
1999	381	332	413	584	0.71	1.24
2000	663	364	204	—	—	0.56
2001	673	309	190	509	0.37	0.61
2002	143	71	46	102	0.45	0.65
2003	427	249	227	424	0.54	0.91
2004	350	218	80	325	0.25	0.37
2005	339	170	149	254	0.59	0.88
2006	329	152	135	322	0.42	0.89
2007	351	149	87	215	0.40	0.58
2008	318	179	161	233	0.69	0.90
2009	324	209	254	299	0.85	1.22
2010	333	233	279	393	0.71	1.20
Total (1998–2010)	5009	2870	2397	4033	—	—
Average (1998–2009)	390	220	177	331	0.52	0.80
% change from previous year	3	11	10	31	-16	-1
% change from average	-15	6	58	19	36	51

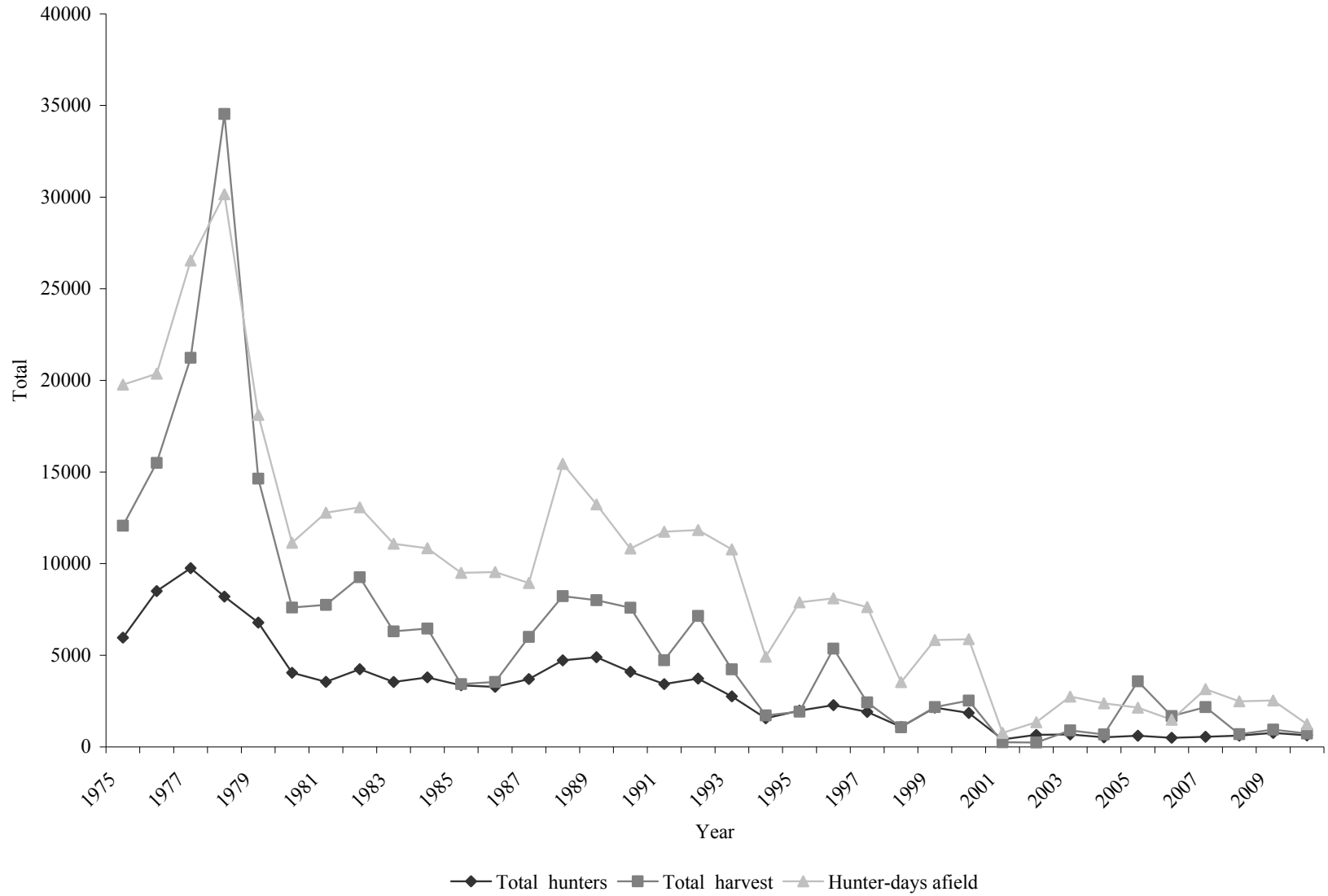
\*Hunter-days afield data was not collected in 2000.

# SNOWSHOE HARE

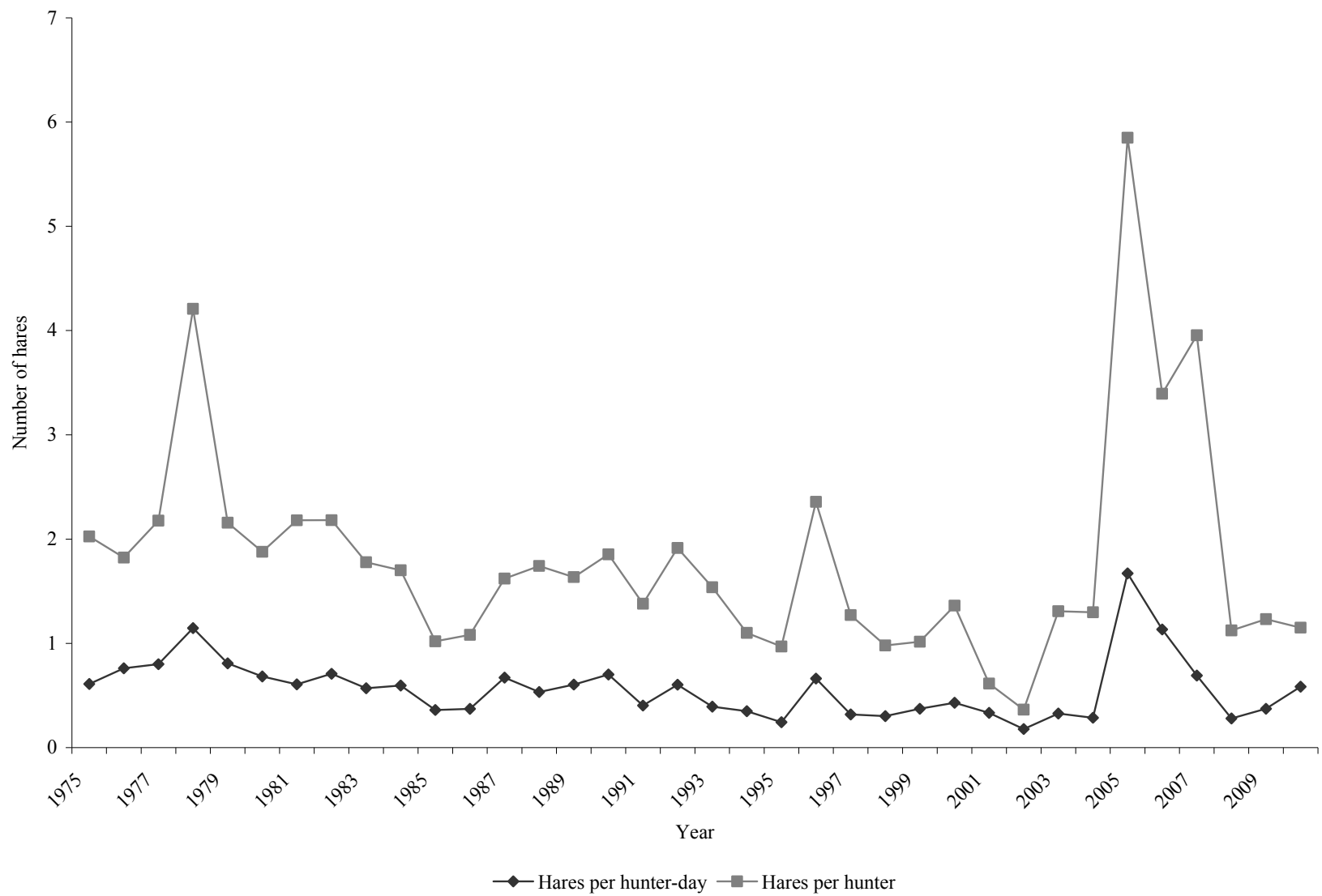


CLARK BRONSON

Statewide trends of snowshoe hare harvest statistics, Utah 1975–2010.



Statewide trends of snowshoe hare hunter success, Utah 1975–2010.



## Snowshoe hare harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Hares bagged	Hares / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	12	115	162	158	0.98	13.1	21.8
Cache	5	48	78	47	0.60	6.3	6.4
Davis	2	19	21	9	0.43	1.7	1.3
Morgan	2	19	42	19	0.45	3.4	2.6
Rich	4	38	49	75	1.53	4.0	10.3
Summit	6	57	148	19	0.13	11.9	2.6
Weber	2	19	21	0	0.00	1.7	0.0
Regional total	33	315	521	327	0.63	42.0	44.9
Central Region							
Juab	1	10	35	19	0.54	2.8	2.6
Salt Lake	0	—	—	—	—	—	—
Sanpete	1	10	21	0	0.00	1.7	0.0
Tooele	6	57	57	19	0.33	4.5	2.6
Utah	6	57	78	47	0.60	6.3	6.4
Wasatch	5	48	106	56	0.53	8.5	7.7
Regional total	19	182	297	141	0.47	23.9	19.2
Southern Region							
Beaver	0	—	—	—	—	—	—
Garfield	3	29	28	0	0.00	2.3	0.0
Iron	1	10	21	19	0.90	1.7	2.6
Kane	1	10	7	9	1.29	0.6	1.3
Millard	0	—	—	—	—	—	—
Piute	1	10	21	0	0.00	1.7	0.0
Sevier	2	19	21	0	0.00	1.7	0.0
Washington	1	10	7	0	0.00	0.6	0.0
Wayne	1	10	7	0	0.00	0.6	0.0
Regional total	10	98	112	28	0.25	9.1	3.8
Northeastern Region							
Daggett	1	10	14	9	0.64	1.1	1.3
Duchesne	4	38	57	19	0.33	4.5	2.6
Uintah	4	38	120	93	0.78	9.7	12.8
Regional total	9	86	191	121	0.63	15.3	16.7
Southeastern Region							
Carbon	1	10	7	0	0.00	0.6	0.0
Emery	1	10	7	0	0.00	0.6	0.0
Grand	2	19	99	93	0.94	8.0	12.8
San Juan	0	—	—	—	—	—	—
Regional total	4	39	113	93	0.82	9.1	12.8
Unknown	1	10	7	19	2.71	0.6	2.6
Statewide total*	66	631	1243	726	0.58	100.0	100.0

\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.



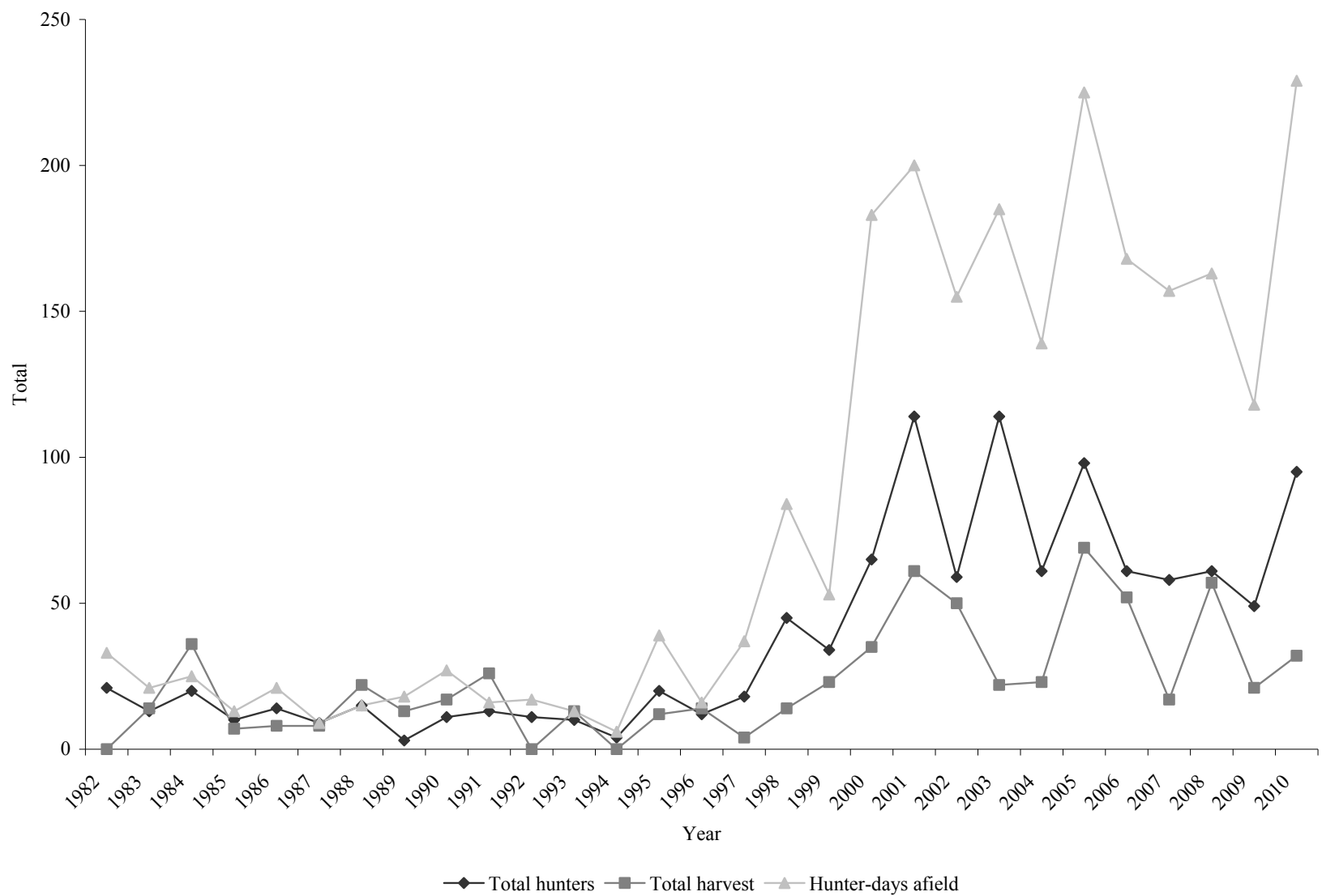
Statewide snowshoe hare harvest statistics, Utah 1975–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Hares / hunter-day	Hares / hunter
1975	5961	12072	19770	0.61	2.03
1976	8502	15500	20367	0.76	1.82
1977	9752	21232	26535	0.80	2.18
1978	8205	34535	30155	1.15	4.21
1979	6787	14641	18115	0.81	2.16
1980	4048	7603	11140	0.68	1.88
1981	3554	7750	12782	0.61	2.18
1982	4245	9257	13073	0.71	2.18
1983	3544	6302	11088	0.57	1.78
1984	3796	6455	10840	0.60	1.70
1985	3365	3429	9494	0.36	1.02
1986	3277	3544	9541	0.37	1.08
1987	3702	6005	8947	0.67	1.62
1988	4725	8231	15444	0.53	1.74
1989	4895	8006	13233	0.61	1.64
1990	4095	7593	10825	0.70	1.85
1991	3427	4731	11742	0.40	1.38
1992	3732	7144	11836	0.60	1.91
1993	2755	4237	10774	0.39	1.54
1994	1565	1722	4922	0.35	1.10
1995	1983	1924	7891	0.24	0.97
1996	2276	5365	8106	0.66	2.36
1997	1912	2431	7628	0.32	1.27
1998	1093	1070	3536	0.30	0.98
1999	2139	2173	5831	0.37	1.02
2000	1855	2526	5879	0.43	1.36
2001	417	256	768	0.33	0.61
2002	658	240	1348	0.18	0.36
2003	686	897	2747	0.33	1.31
2004	525	681	2377	0.29	1.30
2005	612	3580	2142	1.67	5.85
2006	496	1683	1485	1.13	3.39
2007	550	2175	3149	0.69	3.95
2008	619	696	2489	0.28	1.12
2009	766	944	2532	0.37	1.23
2010	631	726	1243	0.58	1.15
Total (1975–2010)	111150	217356	339774	—	—
Average (1975–2009)	3158	6189	9672	0.57	1.83
% change from previous year	-18	-23	-51	57	-7
% change from average	-80	-88	-87	3	-37

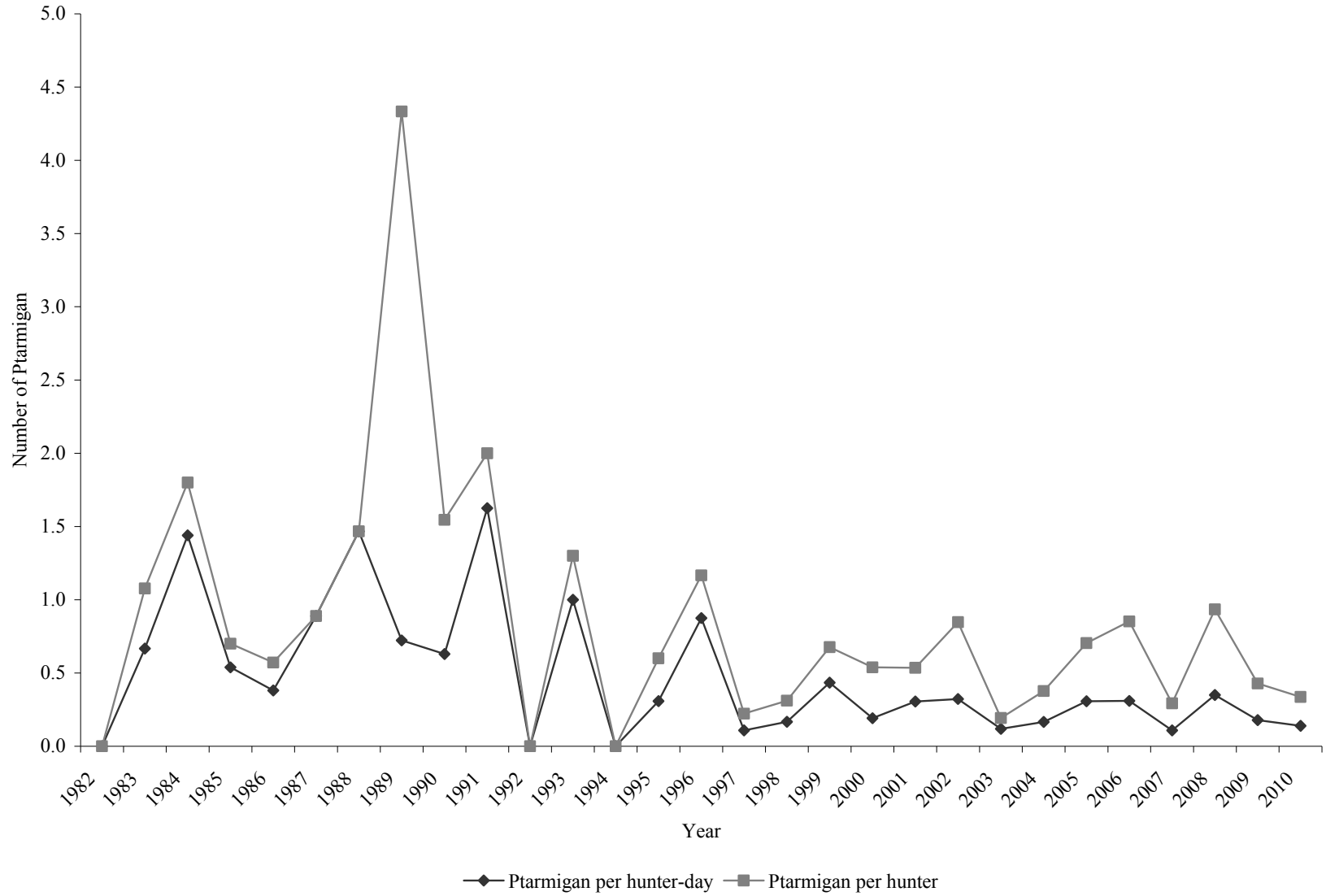
# WHITE-TAILED PTARMIGAN



Statewide trends of white-tailed ptarmigan harvest statistics, Utah 1982–2010.



Statewide trends of white-tailed ptarmigan hunter success, Utah 1982–2010.



White-tailed ptarmigan harvest statistics by region and county, Utah 2010.

Region and county	n	Hunters afield	Hunter-days afield	Ptarmigan bagged	Ptarmigan / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	0	—	—	—	—	—	—
Cache	0	—	—	—	—	—	—
Davis	0	—	—	—	—	—	—
Morgan	0	—	—	—	—	—	—
Rich	0	—	—	—	—	—	—
Summit	12	34	63	9	0.14	27.5	28.1
Weber	0	—	—	—	—	—	—
Regional total	12	34	63	9	0.14	27.5	28.1
Central Region							
Juab	0	—	—	—	—	—	—
Salt Lake	0	—	—	—	—	—	—
Sanpete	0	—	—	—	—	—	—
Tooele	0	—	—	—	—	—	—
Utah	0	—	—	—	—	—	—
Wasatch	0	—	—	—	—	—	—
Regional total	0	—	—	—	—	—	—
Southern Region							
Beaver	0	—	—	—	—	—	—
Garfield	0	—	—	—	—	—	—
Iron	0	—	—	—	—	—	—
Kane	0	—	—	—	—	—	—
Millard	0	—	—	—	—	—	—
Piute	0	—	—	—	—	—	—
Sevier	0	—	—	—	—	—	—
Washington	0	—	—	—	—	—	—
Wayne	0	—	—	—	—	—	—
Regional total	0	—	—	—	—	—	—
Northeastern Region							
Daggett	3	9	9	6	0.67	3.9	18.8
Duchesne	9	26	69	3	0.04	30.1	9.4
Uintah	9	26	72	9	0.13	31.4	28.1
Regional total	21	61	150	18	0.12	65.5	56.3
Southeastern Region							
Carbon	0	—	—	—	—	—	—
Emery	0	—	—	—	—	—	—
Grand	0	—	—	—	—	—	—
San Juan	0	—	—	—	—	—	—
Regional total	0	—	—	—	—	—	—
Unknown	4	11	17	6	0.35	7.4	18.8
Statewide total**	33	95	229	32	0.14	100.0	100.0

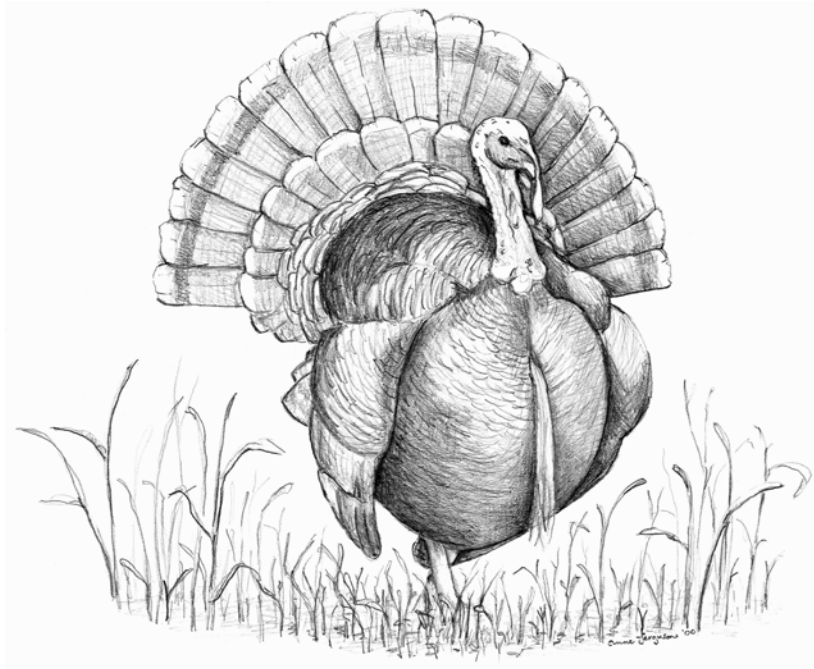
\*White-tailed ptarmigan are typically found in high elevation areas in Daggett, Duchesne, Summit, and Uintah counties.

\*\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties. 238 permits sold, 83 surveyed, 60% permittees did not hunt

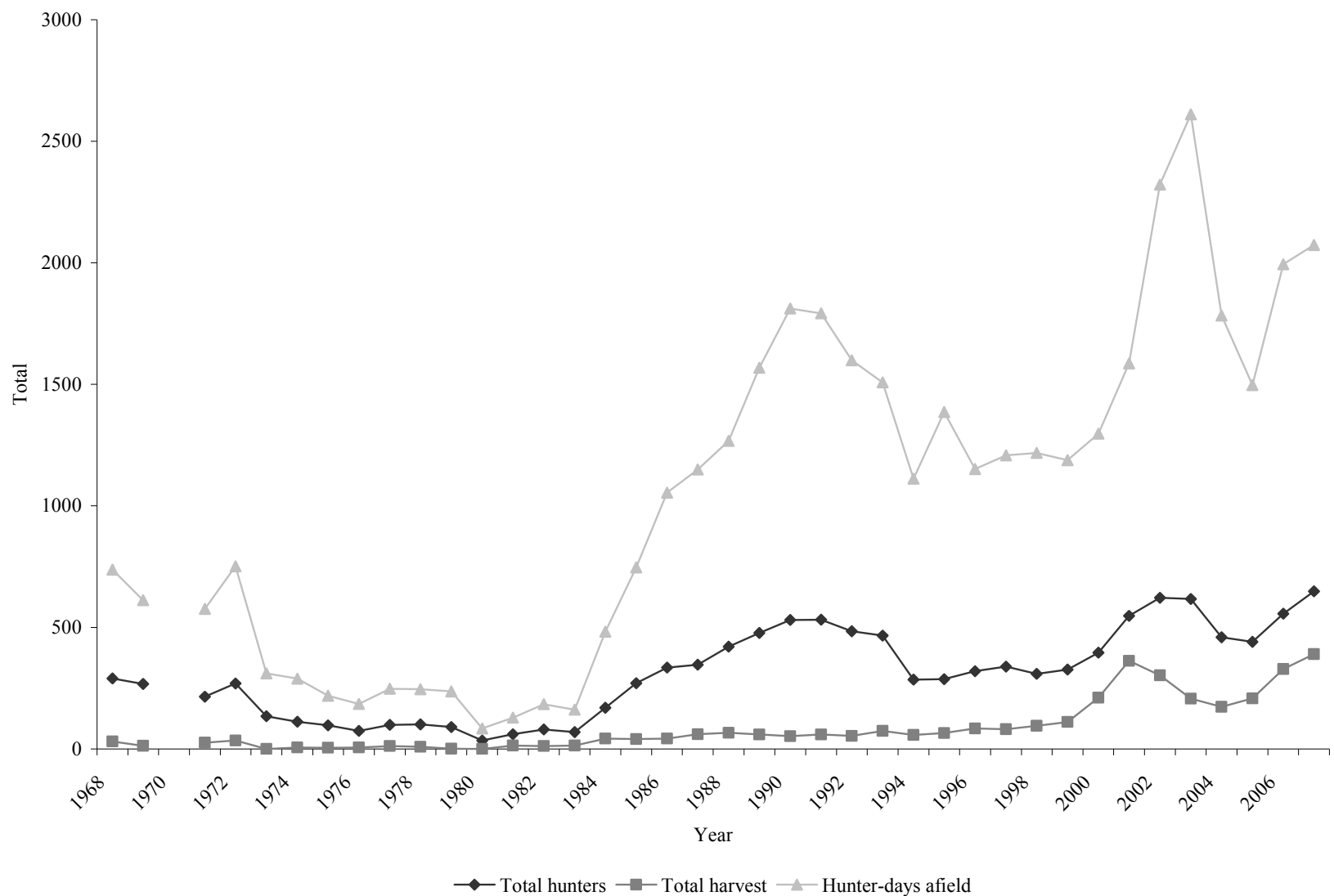
Statewide white-tailed ptarmigan harvest statistics, Utah 1982–2010.

Year	Total hunters	Total harvest	Hunter-days afield	Ptarmigan / hunter-day	Ptarmigan / hunter
1982	21	0	33	0.00	0.00
1983	13	14	21	0.67	1.08
1984	20	36	25	1.44	1.80
1985	10	7	13	0.54	0.70
1986	14	8	21	0.38	0.57
1987	9	8	9	0.89	0.89
1988	15	22	15	1.47	1.47
1989	3	13	18	0.72	4.33
1990	11	17	27	0.63	1.55
1991	13	26	16	1.63	2.00
1992	11	0	17	0.00	0.00
1993	10	13	13	1.00	1.30
1994	4	0	6	0.00	0.00
1995	20	12	39	0.31	0.60
1996	12	14	16	0.88	1.17
1997	18	4	37	0.11	0.22
1998	45	14	84	0.17	0.31
1999	34	23	53	0.43	0.68
2000	65	35	183	0.19	0.54
2001	114	61	200	0.31	0.54
2002	59	50	155	0.32	0.85
2003	114	22	185	0.12	0.19
2004	61	23	139	0.17	0.38
2005	98	69	225	0.31	0.70
2006	61	52	168	0.31	0.85
2007	58	17	157	0.11	0.29
2008	61	57	163	0.35	0.93
2009	49	21	118	0.18	0.43
2010	95	32	229	0.14	0.34
Total (1982–2010)	1118	670	2385	—	—
Average (1982–2009)	37	23	77	0.49	0.87
% change from previous year	94	52	94	-21	-21
% change from average	160	40	197	-71	-61

# WILD TURKEY



Statewide trends of spring Merriam's wild turkey harvest statistics, Utah 1968–2007.



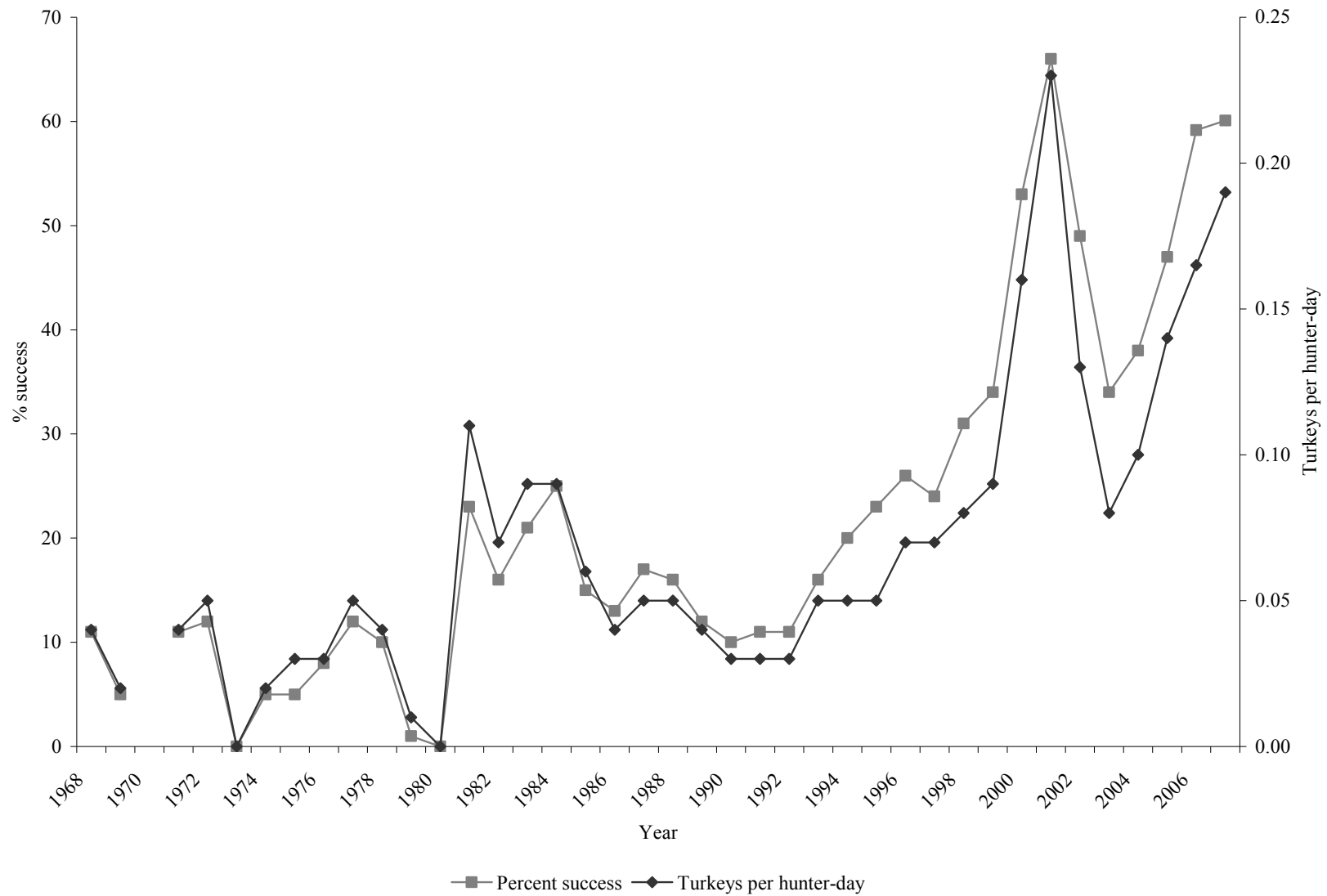
\*No spring season in 1970.

\*\*2002–2004 data does not include conservation permit information.

\*\*\*2005 data does not include conservation permit or landowner permit information.



Statewide trends of spring Merriam's wild turkey hunter success, Utah 1968–2007.



\*No spring season in 1970.

\*\*2002–2004 data does not include conservation permit information.

\*\*\*2005 data does not include conservation permit or landowner permit information.

Statewide Merriam's wild turkey spring season harvest statistics, Utah 1968–2007.

Year	Permits sold	Total hunters	Total harvest	Hunter-days afield	Percent success	Turkeys / hunter-day	% of hunters observing turkeys
1968	310	290	31	738	11	0.04	41
1969	276	267	13	612	5	0.02	22
1970	—	—	—	—	—	—	—
1971	223	215	26	576	11	0.04	38
1972	285	269	35	751	12	0.05	39
1973	150	135	0	311	0	0.00	10
1974	121	112	6	289	5	0.02	22
1975	103	97	5	219	5	0.03	29
1976	81	74	6	185	8	0.03	32
1977	108	99	12	248	12	0.05	39
1978	116	101	9	246	10	0.04	42
1979	113	90	1	237	1	0.01	8
1980	40	35	0	84	0	0.00	17
1981	83	60	14	129	23	0.11	53
1982	91	80	12	184	16	0.07	62
1983	92	69	14	161	21	0.09	55
1984	190	169	43	482	25	0.09	72
1985	314	270	41	747	15	0.06	52
1986	362	335	43	1054	13	0.04	57
1987	384	347	60	1150	17	0.05	57
1988	490	421	66	1267	16	0.05	50
1989	527	477	59	1568	12	0.04	55
1990	579	531	52	1812	10	0.03	51
1991	587	532	59	1792	11	0.03	49
1992	538	484	53	1599	11	0.03	45

\*No spring season in 1970.

\*\*2002–2004 data does not include conservation permit information.

\*\*\*2005 data does not include conservation permit or landowner permit information.

Statewide Merriam's wild turkey spring season harvest statistics, Utah 1968–2007 (cont.).

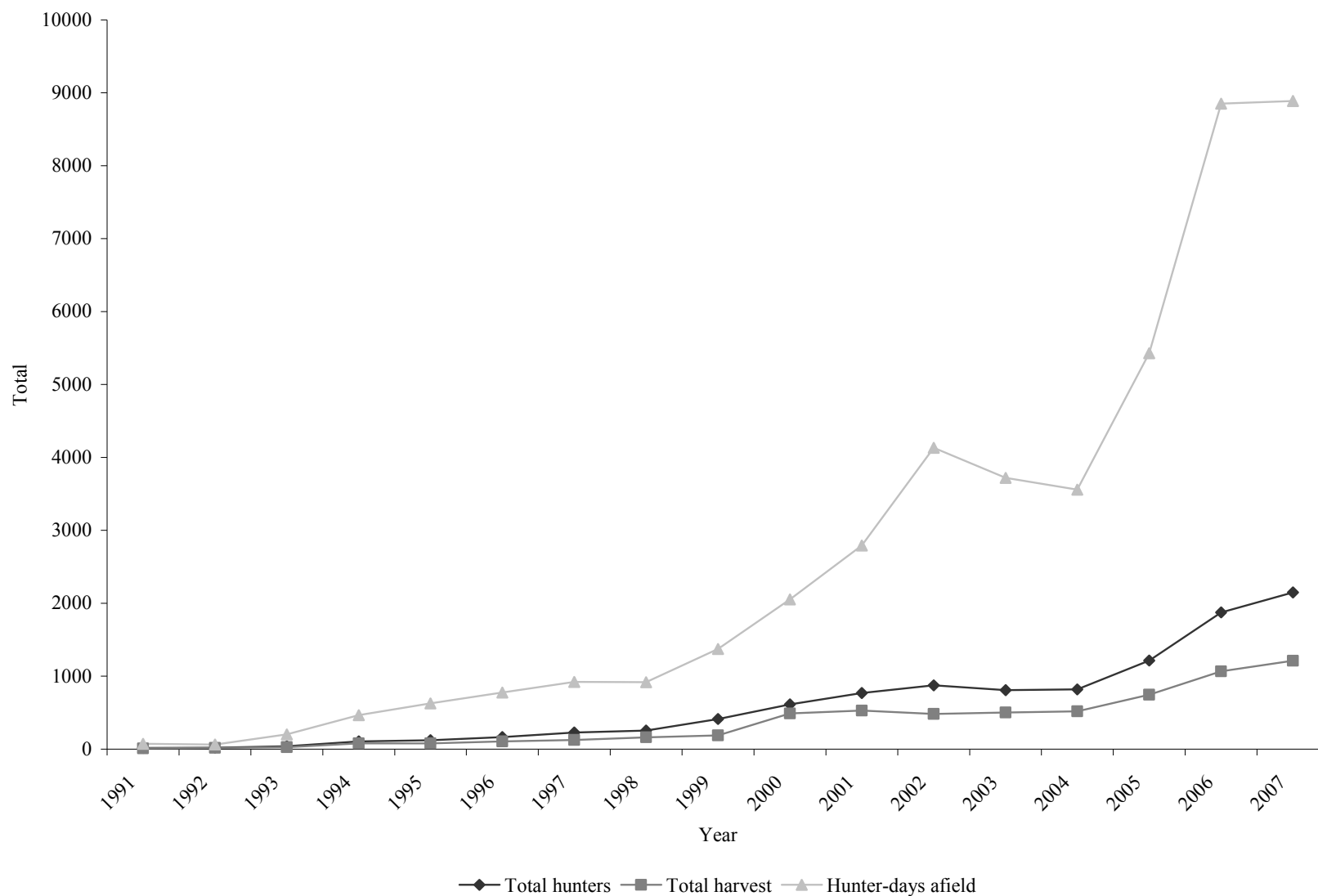
Year	Permits sold	Total hunters	Total harvest	Hunter-days afield	Percent success	Turkeys / hunter-day	% of hunters observing turkeys
1993	500	466	74	1508	16	0.05	54
1994	335	285	57	1112	20	0.05	—
1995	335	287	65	1386	23	0.05	40
1996	355	320	84	1151	26	0.07	78
1997	362	339	81	1208	24	0.07	87
1998	358	309	95	1218	31	0.08	18
1999	355	327	111	1188	34	0.09	84
2000	431	396	211	1297	53	0.16	77
2001	569	548	362	1586	66	0.23	90
2002*	689	622	303	2322	49	0.13	—
2003*	660	617	207	2611	34	0.08	—
2004*	493	459	173	1783	38	0.10	88
2005**	561	441	208	1497	47	0.14	88
2006	633	556	329	1994	59	0.16	93
2007	713	649	390	2073	60	0.19	93
Total (1968–2007)	13512	12180	3410	40375	—	—	—
Average (1968–2006)	337	303	79	1008	21	0.07	51
% change from previous year	13	17	19	4	2	15	0
% change from average	112	114	391	106	189	191	82

\*No spring season in 1970.

\*\*2002–2004 data does not include conservation permit information.

\*\*\*2005 data does not include conservation permit or landowner permit information.

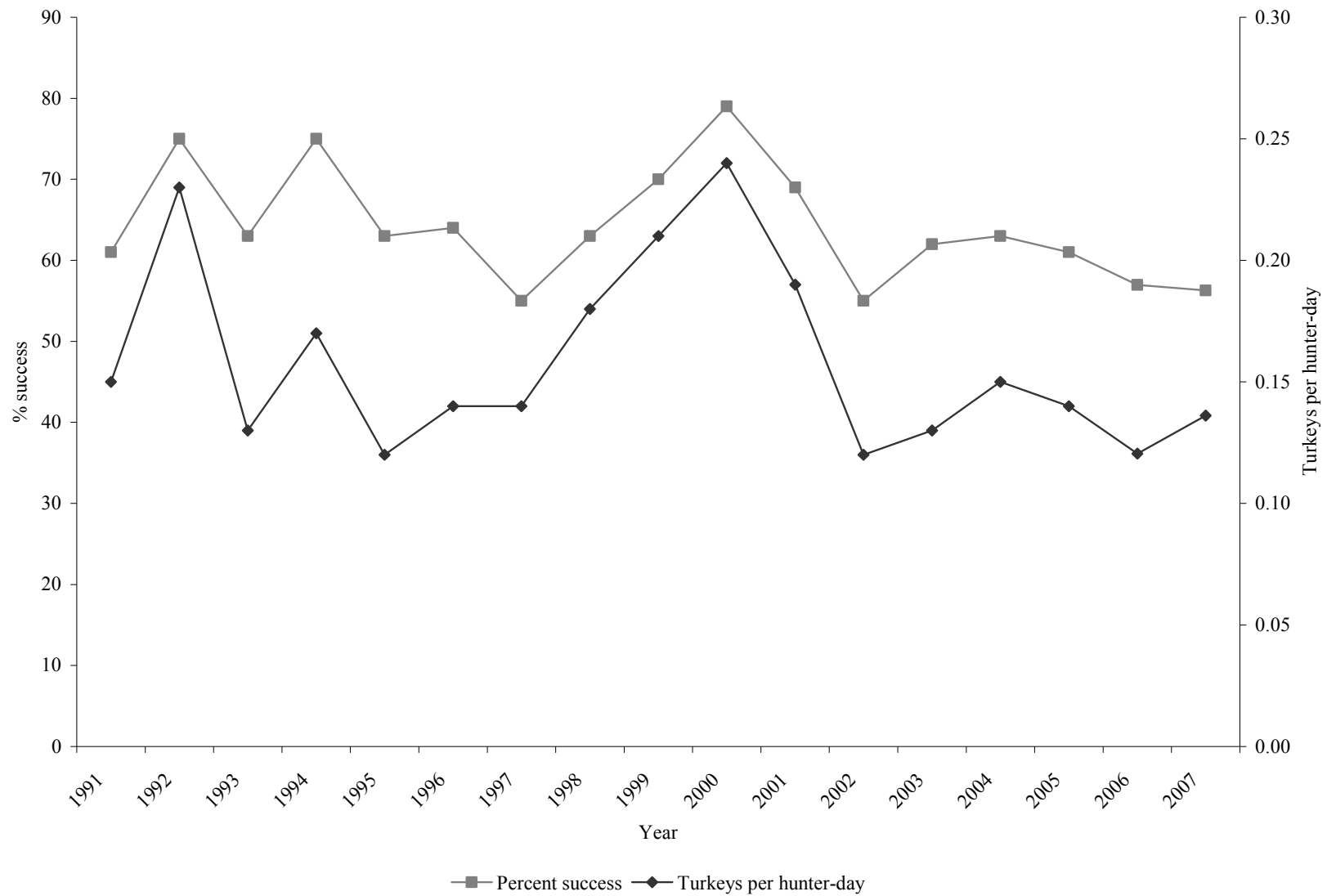
Statewide trends of spring Rio Grande wild turkey harvest statistics, Utah 1991–2007.



\*2002–2004 data does not include conservation permit information.

\*\*2005 data does not include conservation permit or landowner permit information.

Statewide trends of spring Rio Grande wild turkey hunter success, Utah 1991–2007.



\*2002–2004 data does not include conservation permit information.

\*\*2005 data does not include conservation permit or landowner permit information.

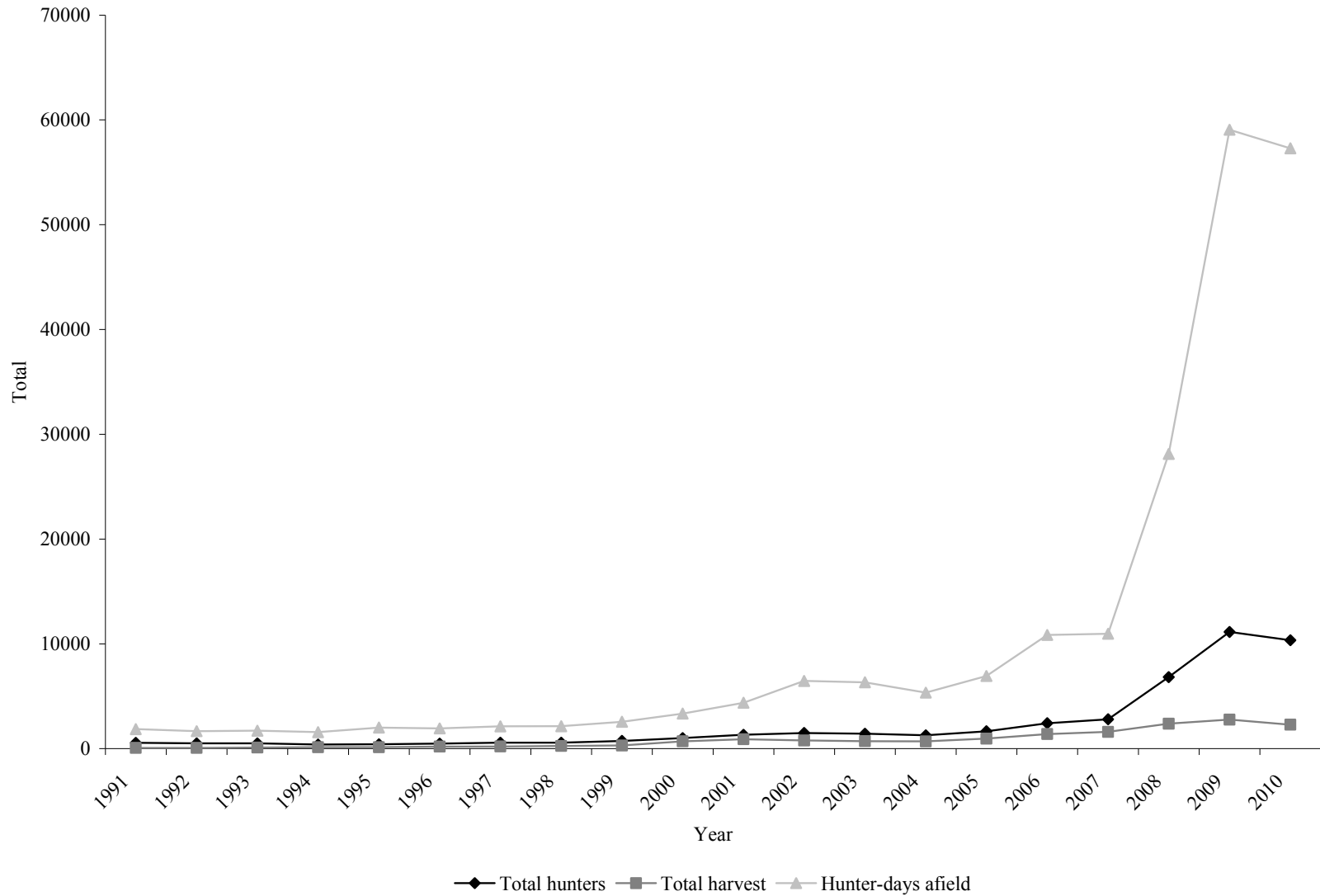
Statewide Rio Grande wild turkey harvest statistics, Utah 1991–2007.

Year	Permits sold	Total hunters	Total harvest	Hunter-days afield	Percent success	Turkeys / hunter-day	% of hunters observing turkeys
1991	20	18	11	71	61	0.15	—
1992	21	20	15	64	75	0.23	—
1993	42	41	26	200	63	0.13	—
1994	105	105	79	464	75	0.17	—
1995	135	123	78	628	63	0.12	—
1996	174	166	107	776	64	0.14	88
1997	240	229	127	920	55	0.14	82
1998	263	254	161	919	63	0.18	57
1999	398	413	189	1373	70	0.21	90
2000	631	615	488	2052	79	0.24	62
2001	812	769	529	2791	69	0.19	91
2002*	952	876	482	4131	55	0.12	—
2003*	868	810	501	3720	62	0.13	—
2004*	879	820	518	3559	63	0.15	96
2005**	1435	1215	745	5428	61	0.14	92
2006	2031	1873	1067	8852	57	0.12	94
2007	2304	2150	1210	8887	56	0.14	97
Total (1991–2007)	11310	10497	6333	44835	—	—	—
Average (1991–2006)	563	522	320	2247	65	0.16	84
% change from previous year	13	15	13	0	-1	13	3
% change from average	309	312	278	296	-13	-15	16

\*2002–2004 data does not include conservation permit information.

\*\*2005 data does not include conservation permit or landowner permit information.

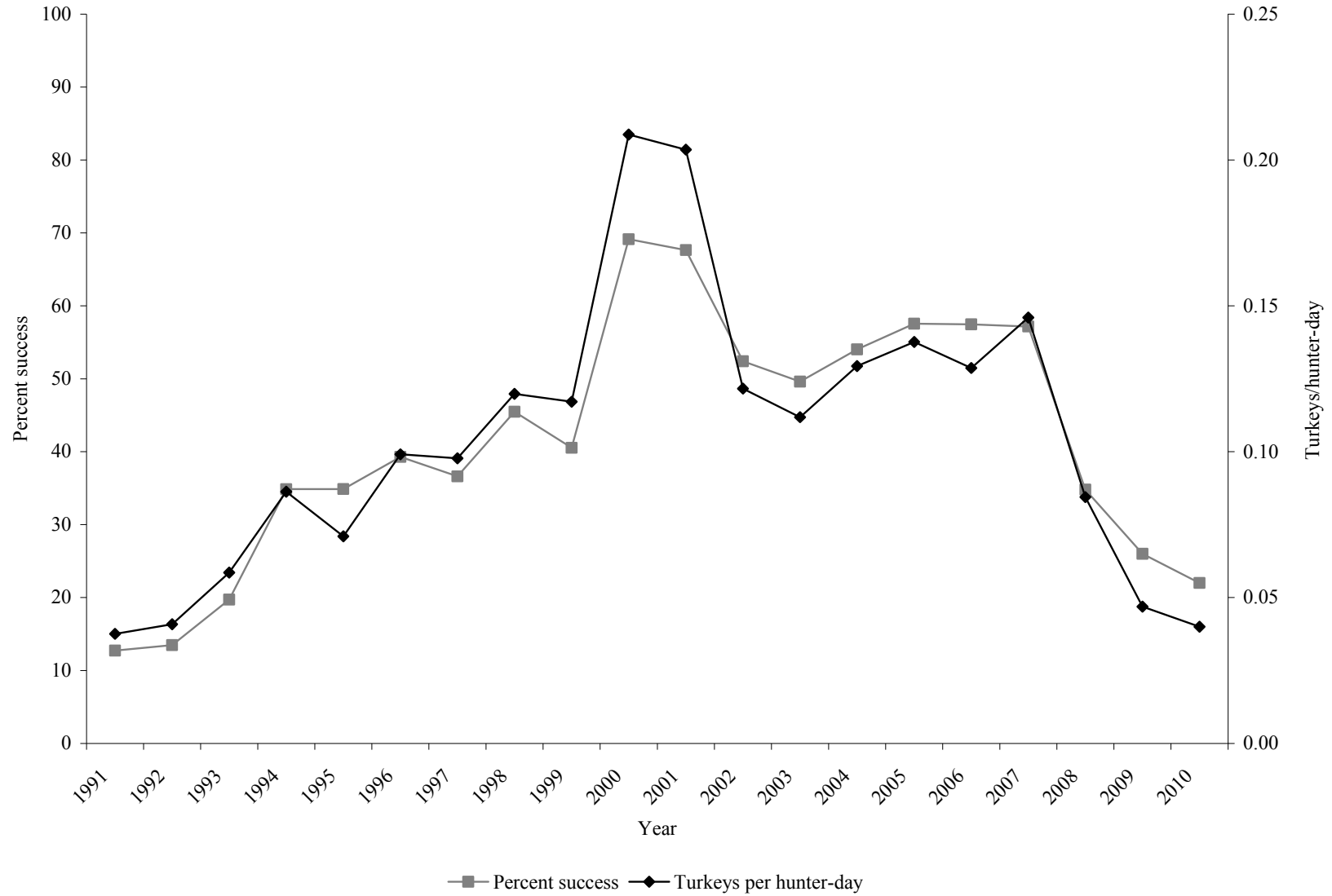
Statewide trends of spring wild turkey (Merriam's and Rio Grande) harvest statistics, Utah 1991–2010.



\*2002–2004 data does not include conservation permit information.

\*\*2005 data does not include conservation permit or landowner permit information.

Statewide trends of spring wild turkey (Merriam's and Rio Grande) hunter success, Utah 1991–2010.



\*2002–2004 data does not include conservation permit information.

\*\*2005 data does not include conservation permit or landowner permit information.



Statewide wild turkey harvest statistics, Utah 1991–2010.

Year	Permits sold	Total hunters	Rio Grande turkey harvest	Merriam's turkey harvest	Unknown turkey harvest	Total harvest	Hunter-days afield	Turkeys / hunter-day	Percent success
1991	607	550	11	59	—	70	1863	0.04	13
1992	559	504	15	53	—	68	1663	0.04	13
1993	542	507	26	74	—	100	1708	0.06	20
1994	440	390	79	57	—	136	1576	0.09	35
1995	470	410	78	65	—	143	2014	0.07	35
1996	529	486	107	84	—	191	1927	0.10	39
1997	602	568	127	81	—	208	2128	0.10	37
1998	621	563	161	95	—	256	2137	0.12	45
1999	753	740	189	111	—	300	2561	0.12	41
2000	1062	1011	488	211	—	699	3349	0.21	69
2001	1381	1317	529	362	—	891	4377	0.20	68
2002*	1641	1498	482	303	—	785	6453	0.12	52
2003*	1528	1427	501	207	—	708	6331	0.11	50
2004*	1372	1279	518	173	—	691	5342	0.13	54
2005**	1996	1656	745	208	—	953	6925	0.14	58
2006	2664	2429	1067	329	—	1396	10846	0.13	57
2007	3017	2799	1210	390	—	1600	10960	0.15	57
2008***	7858	6831	1696	561	117	2374	28118	0.08	35
2009	13608	11138	1536	818	416	2770	59060	0.05	26
2010	13173	10348	986	700	605	2291	57285	0.04	22
Total (1991–2010)	54423	46451	10551	4941	1138	16630	216623	—	—
Average (1991–2009)	2171	1900	503	223	267	755	8386	0.11	42
% change from previous year	-3	-7	-36	-14	45	-17	-3	-15	-15
% change from average	507	445	96	214	127	204	583	-63	-48

\*Does not include conservation permit information.

\*\*Does not include conservation permit or landowner permit information.

\*\*\*In 2008, turkey hunters were no longer restricted to taking only one species (Rio Grande or Merriam's), so turkey harvest statistics beginning in 2008 are no longer split out into separate tables by species. Historical Merriam's and Rio Grand turkey data have been combined into the table above, and percent success and turkeys/hunter-day recalculated.

Wild turkey harvest statistics by hunt, Utah 2010.

Hunt	Total permits	n	Hunters afield	Rio Grande turkey harvest	Merriam's turkey harvest	Unknown turkey harvest	Total harvest	Hunter-days afield	Percent success
Limited entry central region	608	422	536	111	38	61	210	2856	39.1
Limited entry northeastern region	309	185	253	37	24	29	90	1290	35.4
Limited entry northern region	490	346	437	65	45	68	178	2270	40.8
Limited entry southeastern region	302	213	253	37	28	12	77	1077	30.4
Limited entry southern region	1318	835	1137	157	133	68	358	5198	31.3
General season statewide	10118**	3926**	7560***	532	375	310	1216	44593	15.8
General season youth hunt*	1458	394	1006	43	53	53	149	1582	14.8

\*Youth hunt was a subset of the general season statewide turkey hunt (hunters 15 years of age or younger).

\*\*Includes youth hunters eligible for the 3-day youth hunt.

\*\*\*Does not include youth hunters who harvested during the youth hunt. Many youth hunters who did not harvest during the youth hunt went on to hunt during the regular general season statewide hunt.

CWMU wild turkey harvest statistics by hunt, Utah 2010.

CWMU name	Total permits	n	Hunters afield	Rio Grande turkey harvest	Merriam's turkey harvest	Unknown turkey harvest	Total harvest	Hunter-days afield	Percent success
Broadmouth	1	1	1	0	0	1	1	5	100.0
Castle Valley Outdoors	1	1	1	0	0	0	0	4	0.0
Folley Ridge	9	7	8	1	3	0	4	18	50.0
Heaston East	4	4	4	2	1	1	4	4	100.0
Missouri Flat	10	6	10	1	0	2	3	30	33.3
Redd Ranches	3	2	0	—	—	—	—	—	—

## **APPENDIX A**

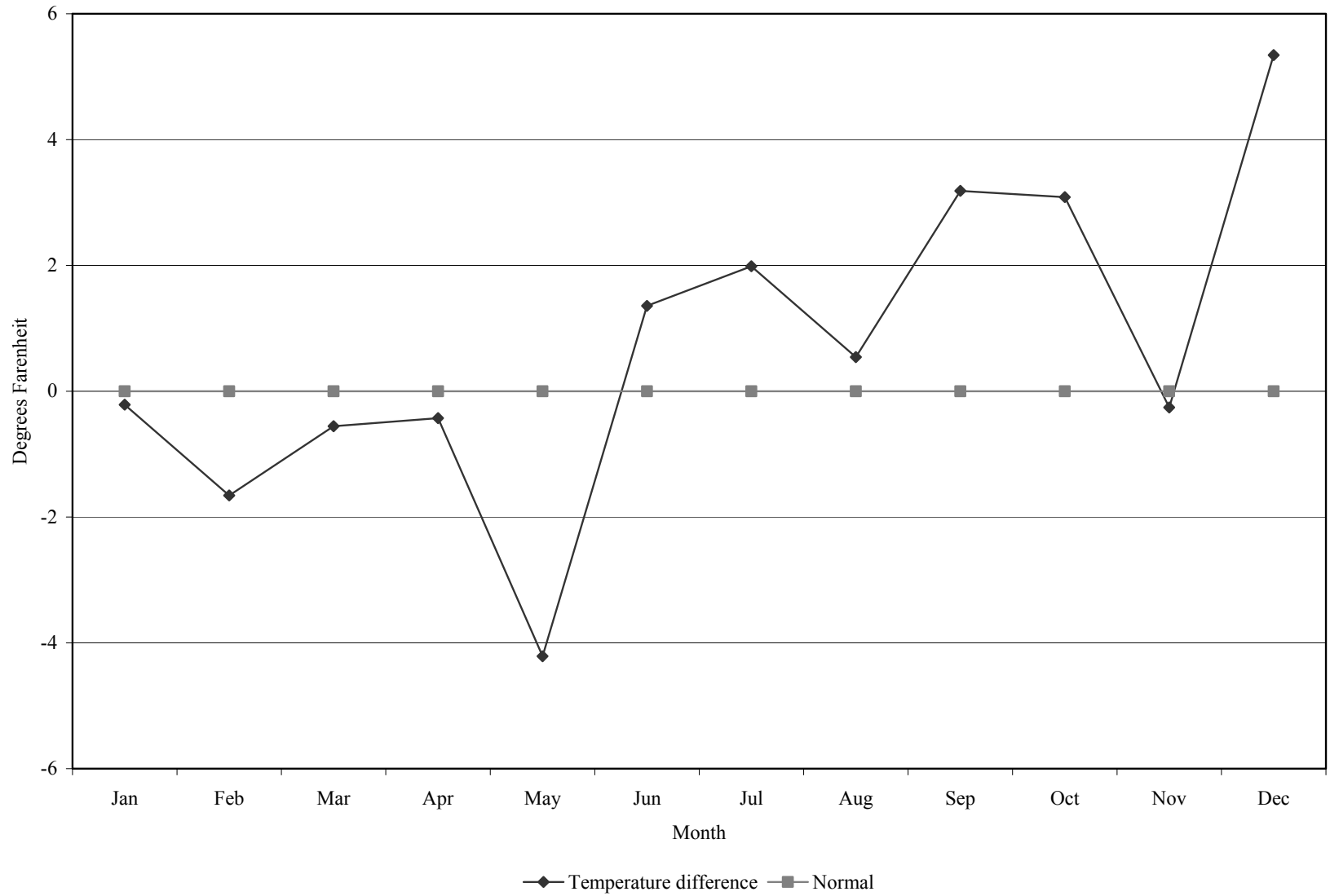
### **WEATHER CONDITIONS**

Weather information used in this report is from the NOAA annual periodical entitled “Climatological Data Annual Summary, Utah 2010.”

Comparison of monthly average temperatures (°F) to normal temperature, by weather division, Utah 2010.

Weather Division	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
No.1 Western													
Normal	26.7	32.6	40.7	47.6	56.4	66.2	73.8	72.1	62.0	49.6	36.6	27.6	49.3
2010	26.4	33.9	39.7	45.6	50.6	66.2	74.8	72.4	63.4	52.2	35.1	31.2	49.3
Departure	-0.3	1.3	-1.0	-2.0	-5.8	0.0	1.0	0.3	1.4	2.6	-1.5	3.6	0.0
No.2 Dixie													
Normal	39.4	44.5	50.1	56.9	65.9	75.9	81.6	79.8	72.3	60.7	47.2	39.7	59.5
2010	41.7	44.4	49.3	55.6	62.8	80.1	86.1	81.4	78.6	65.2	47.8	44.5	61.5
Departure	2.3	-0.1	-0.8	-1.3	-3.1	4.2	4.5	1.6	6.3	4.5	0.6	4.8	2.0
No.3 North Central													
Normal	26.5	31.6	40.3	47.6	56.6	66.3	73.9	72.3	62.4	50.4	37.2	28.0	49.4
2010	27.3	32.4	40.6	46.9	51.1	65.6	75.5	72.9	65.3	54.0	36.8	32.7	50.1
Departure	0.8	0.8	0.3	-0.7	-5.5	-0.7	1.6	0.6	2.9	3.6	-0.4	4.7	0.7
No.4 South Central													
Normal	26.8	31.6	38.2	44.6	53.5	63.1	69.8	67.9	59.7	48.3	36.0	28.0	47.3
2010	27.0	30.4	38.2	44.6	50.1	65.5	72.5	69.4	63.9	51.2	35.4	33.7	48.5
Departure	0.2	-1.2	0.0	0.0	-3.4	2.4	2.7	1.5	4.2	2.9	-0.6	5.7	1.2
No.5 Northern Mountains													
Normal	21.3	24.9	32.8	40.4	49.4	58.3	65.1	63.7	55.0	44.2	31.3	22.5	42.4
2010	24.2	25.2	34.4	40.7	45.4	59.3	67.5	65.3	58.1	48.2	31.7	27.8	44.0
Departure	2.9	0.3	1.6	0.3	-4.0	1.0	2.4	1.6	3.1	4.0	0.4	5.3	1.6
No.6 Uintah Basin													
Normal	18.0	24.4	37.5	46.5	55.9	65.2	71.6	69.6	60.2	47.8	32.8	21.0	45.9
2010	12.5	15.8	35.4	46.8	51.3	66.2	72.1	68.9	62.1	50.0	33.1	28.0	45.2
Departure	-5.5	-8.6	-2.1	0.3	-4.6	1.0	0.5	-0.7	1.9	2.2	0.3	7.0	-0.6
No.7 Southeast													
Normal	28.0	34.7	43.1	50.7	60.1	70.5	76.5	74.4	65.4	53.0	39.1	29.8	52.1
2010	26.1	30.6	41.2	51.1	57.0	72.1	77.7	73.3	67.9	54.8	38.5	36.1	52.2
Departure	-1.9	-4.1	-1.9	0.4	-3.1	1.6	1.2	-1.1	2.5	1.8	-0.6	6.3	0.1
State averages													
Normal	26.7	32.0	40.4	47.8	56.8	66.5	73.2	71.4	62.4	50.6	37.2	28.1	49.4
2010	26.5	30.4	39.8	47.3	52.6	67.9	75.2	71.9	65.6	53.7	36.9	33.4	50.1
Departure	-0.2	-1.7	-0.6	-0.4	-4.2	1.4	2.0	0.5	3.2	3.1	-0.3	5.3	0.7

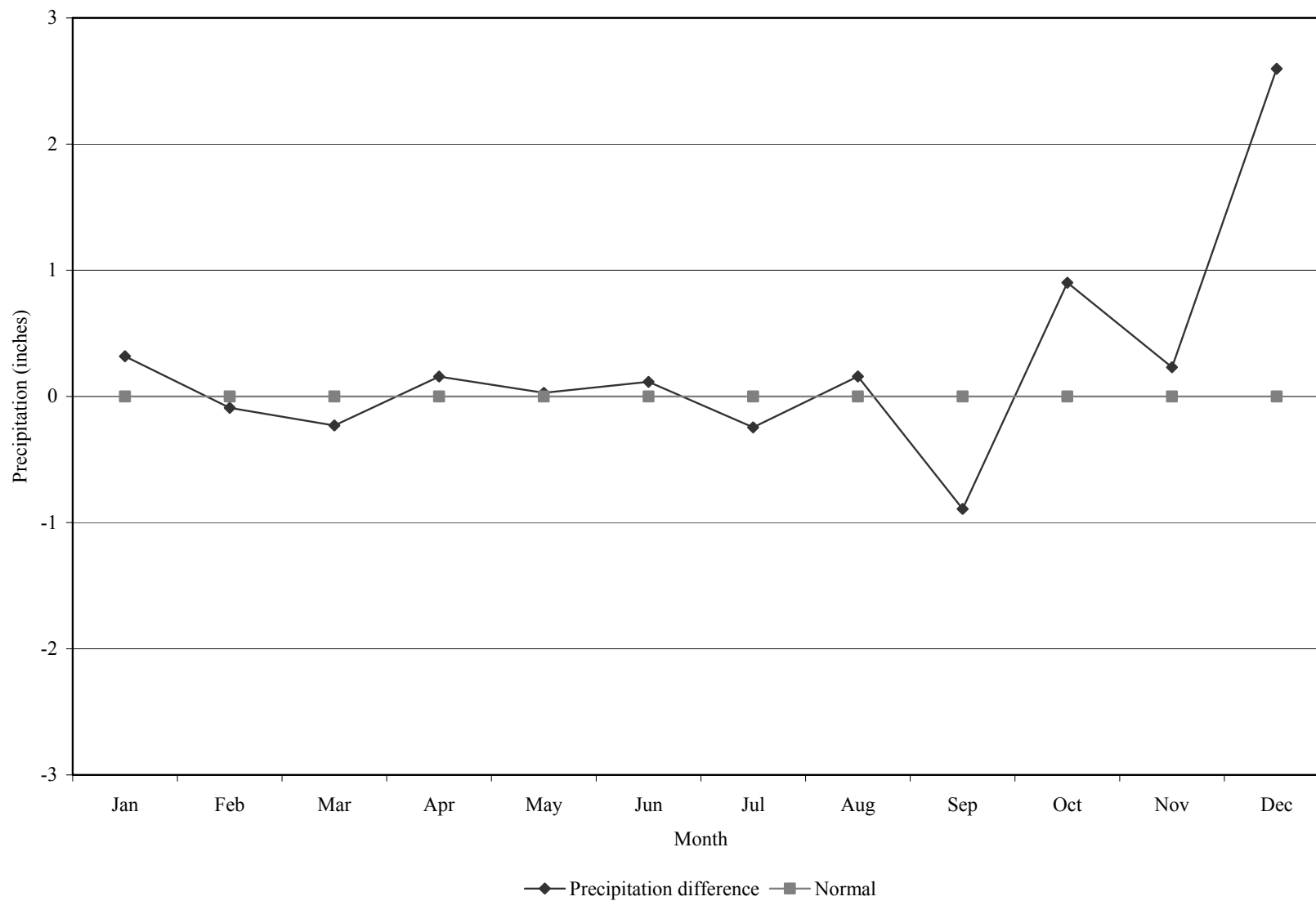
Temperature (°F) departure from normal, Utah 2010.



Comparison of monthly average precipitation (inches) to normal precipitation, by weather division, Utah 2010.

Weather Division	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
No.1 Western													
Normal	0.64	0.65	0.92	0.87	1.12	0.61	0.70	0.78	0.80	0.96	0.65	0.48	9.18
2010	0.81	0.48	0.62	1.09	1.71	0.66	0.41	0.33	0.07	1.10	1.08	1.80	10.16
Departure	0.17	-0.17	-0.30	0.22	0.59	0.05	-0.29	-0.45	-0.73	0.14	0.43	1.32	0.98
No.2 Dixie													
Normal	1.58	1.59	1.95	0.87	0.68	0.33	0.90	1.14	0.89	1.01	1.09	0.84	12.87
2010	3.02	2.84	1.57	0.53	0.18	0.11	0.72	1.39	0.01	2.65	1.04	5.96	20.02
Departure	1.44	1.25	-0.38	-0.34	-0.50	-0.22	-0.18	0.25	-0.88	1.64	-0.05	5.12	7.15
No.3 North Central													
Normal	1.59	1.58	1.88	1.90	2.15	1.06	0.89	0.97	1.42	1.81	1.54	1.37	18.16
2010	1.08	0.68	1.23	2.23	2.70	1.27	0.23	1.13	0.24	2.53	2.47	3.98	19.77
Departure	-0.51	-0.90	-0.65	0.33	0.55	0.21	-0.66	0.16	-1.18	0.72	0.93	2.61	1.61
No.4 South Central													
Normal	1.17	1.21	1.43	1.07	1.09	0.59	1.00	1.35	1.17	1.34	1.07	0.87	13.36
2010	1.87	1.22	1.56	1.27	0.93	0.63	1.09	1.18	0.06	3.07	1.16	3.63	17.67
Departure	0.70	0.01	0.13	0.20	-0.16	0.04	0.09	-0.17	-1.11	1.73	0.09	2.76	4.31
No.5 Northern Mountains													
Normal	2.03	1.85	1.99	1.90	2.01	1.12	1.07	1.15	1.56	1.86	1.86	1.72	20.12
2010	1.39	0.92	1.45	2.81	2.56	1.52	0.63	1.56	0.36	3.00	2.44	5.13	23.77
Departure	-0.64	-0.93	-0.54	0.91	0.55	0.40	-0.44	0.41	-1.20	1.14	0.58	3.41	3.65
No.6 Uintah Basin													
Normal	0.52	0.48	0.63	0.79	0.98	0.57	0.74	0.82	0.92	1.08	0.54	0.42	8.49
2010	0.70	0.16	0.35	0.89	0.68	0.91	0.59	1.03	0.17	1.39	0.56	2.45	9.88
Departure	0.18	-0.32	-0.28	0.10	-0.30	0.34	-0.15	0.21	-0.75	0.31	0.02	2.03	1.39
No.7 Southeast													
Normal	0.84	0.67	0.87	0.71	0.77	0.40	0.92	0.97	0.97	1.28	0.80	0.63	9.83
2010	1.73	1.10	1.28	0.39	0.24	0.39	0.83	1.67	0.58	1.91	0.42	1.56	12.10
Departure	0.89	0.43	0.41	-0.32	-0.53	-0.01	-0.09	0.70	-0.39	0.63	-0.38	0.93	2.27
State averages													
Normal	1.20	1.15	1.38	1.16	1.26	0.67	0.89	1.03	1.10	1.33	1.08	0.90	13.14
2010	1.51	1.06	1.15	1.32	1.29	0.78	0.64	1.18	0.21	2.24	1.31	3.50	16.20
Departure	0.32	-0.09	-0.23	0.16	0.03	0.12	-0.25	0.16	-0.89	0.90	0.23	2.60	3.05

Precipitation (inches) departure from normal, Utah 2010.





## **APPENDIX B**

### **HUNTER HARVEST SURVEY RESPONSE SUMMARY**

Upland game harvest mail questionnaire returns, Utah 1962–2000.

Year	Questionnaires mailed	Total surveys returned	% returned	Total usable returns	% usable	% of permittees who did not hunt
1962	10068	4122	40.9	3433	34.1	22.0
1963	11058	5062	45.8	4325	39.1	21.0
1964	10718	4840	45.2	4180	39.0	23.0
1965	11917	6232	52.3	—	—	34.0
1966	13131	5734	43.7	5734	43.7	34.6
1967	12012	5764	48.0	5764	48.0	25.1
1968	14068	6138	43.6	6138	43.6	25.6
1969	15036	6429	42.8	6429	42.8	28.0
1970	14730	6639	45.1	6639	45.1	38.8
1971	15149	—	43.2	—	—	—
1972	15272	—	—	6399	41.9	—
1973	17572	—	—	7999	45.5	—
1974	27379	9157	33.4	8027	29.3	—
1975	26657	10880	40.8	9132	34.3	—
1976	21250	7889	37.1	6226	29.3	—
1977	20984	9329	44.5	8099	38.6	—
1978	24733	7575	30.6	6529	26.4	—
1979	27616	10498	38.0	9274	33.6	26.4
1980	27952	9857	35.3	8496	30.4	33.1
1981	13925	7941	57.0	6367	45.7	31.4
1982	22609	10167	45.0	8734	38.6	27.0
1983	23430	10324	44.1	9497	40.5	28.7
1984	12026	6455	53.7	6324	52.6	31.1
1985	10772	5904	54.8	5843	54.2	35.2
1986	11103	5329	48.0	5256	47.3	34.2
1987	10022	4294	42.8	4272	42.6	30.1
1988	15350	6650	43.3	6527	42.5	35.6
1989	12894	5135	39.8	5105	39.6	36.7
1990	12236	5264	43.0	5175	42.3	39.1
1991	15054	6419	42.6	6212	41.3	42.7
1992	16472	6207	37.7	5977	36.3	45.0
1993	16534	6293	38.1	5442	32.9	42.6
1994	15526	5433	35.0	5131	33.0	45.1
1995	14777	4951	33.5	4866	32.9	41.7
1996	14088	4090	29.0	4028	28.6	36.2
1997	13689	4488	32.8	4338	31.7	40.0
1998	14497	5536	38.2	3862	26.6	43.5
1999	14630	6082	41.6	5426	37.1	39.6
2000	14181	5020	35.4	4555	32.1	37.4

Upland game survey type and sample size, Utah 2001–2010.

Year	Survey type	Sample size	Total permits	% of permittees who did not hunt
2001	Telephone	2500	83883	43.6
2002	Telephone	2501	79036	40.9
2003	Telephone	2500	77058	35.3
2004	Telephone	2500	77160	42.2
2005	Telephone	2500	76491	33.6
2006	Telephone	2501	82639	50.5
2007*	Telephone	4978	124349	75.5
2008	Internet Telephone	14324	182846	76.7
2009	Internet Telephone	12571	187925	81.8
2010	Internet Telephone	14752	186163	80.9

\*As of July 1, 2007, the 365-day small game license was renamed a basic Hunting License, and all hunters were required to obtain a basic Hunting License before applying for or obtaining any other Utah hunting permit.

## **APPENDIX C**

### **LICENSE SALES**

Small game license sales and the proportion of the population purchasing small game licenses, Utah 1971–2006.

Year	License fee (\$)				Licenses sold				Utah population	% purchasing a license
	JSG	RSG	CMB	NRSG	JSG	RSG	CMB	NRSG		
1971	2.50	4.50	10.00	20.00	16044	20681	102284	1000	1101000	12.6
1972	2.50	4.50	10.00	20.00	16523	19796	107414	4075	1135000	12.7
1973	2.50	4.50	10.00	20.00	16522	18836	115436	964	1169000	12.9
1974	2.50	4.50	10.00	20.00	16334	17434	117770	974	1197000	12.7
1975	2.50	4.50	10.00	20.00	15869	17057	115362	967	1234000	12.0
1976	3.00	6.00	18.00	20.00	16261	33078	76587	1141	1272000	9.9
1977	3.00	6.00	18.00	20.00	15795	36473	74600	1270	1316000	9.6
1978	3.00	6.00	18.00	20.00	15419	37082	81227	1449	1364000	9.8
1979	3.00	6.00	18.00	20.00	14200	36721	84450	1575	1416000	9.6
1980	4.00	8.00	23.00	30.00	14042	30189	100177	1330	1461037	9.9
1981	4.00	8.00	23.00	30.00	13874	37804	83486	1559	1524830	8.9
1982	4.00	8.00	23.00	30.00	14040	36850	82970	1637	1588622	8.4
1983	4.00	8.00	23.00	30.00	13814	39602	73529	1685	1652415	7.7
1984	4.00	8.00	23.00	30.00	13170	36070	73081	1633	1716207	7.1
1985	6.00	12.00	35.00	40.00	12987	30102	82137	1500	1780000	7.0
1986	6.00	12.00	35.00	40.00	11946	39567	67435	1274	1665000	7.1
1987	6.00	12.00	35.00	40.00	11228	26781	66715	1235	1678000	6.2
1988	6.00	12.00	35.00	40.00	9498	25733	72846	1428	1695000	6.4
1989	6.00	12.00	35.00	40.00	5769	25845	74274	1422	1715000	6.2
1990	6.00	12.00	35.00	40.00	5682	24527	76292	1279	1722850	6.2
1991	6.00	12.00	35.00	40.00	5626	23276	79165	1212	1774241	6.1
1992	6.00	12.00	35.00	40.00	5431	21852	78940	1195	1820453	5.8
1993	6.00	12.00	25.00	40.00	4887	20899	78030	1150	1866000	5.6
1994	6.00	12.00	25.00	40.00	4551	25792	59854	1223	1916000	4.7
1995	6.00	12.00	25.00	40.00	4403	24219	66607	1379	1959000	4.9
1996	6.00	12.00	25.00	40.00	3584	23908	65003	1503	2002359	4.6
1997	6.00	12.00	25.00	40.00	3674	22980	63513	1563	2048753	4.4
1998	6.00	12.00	25.00	40.00	3529	22671	63648	1618	2082502	4.3
1999	7.00	13.00	28.00	41.00	3654	23109	65193	1651	2121053	4.3
2000	7.00	13.00	28.00	41.00	3521	23316	59794	1212	2246553	3.9
2001	11.00	17.00	32.00	45.00	3369	20617	58880	1017	2305652	3.6
2002	11.00	17.00	32.00	45.00	3063	19415	55425	1133	2358330	3.3
2003	11.00	17.00	32.00	45.00	3150	19045	53778	1085	2413618	3.1
2004	11.00	17.00	34.00	45.00	3092	19114	53743	1211	2469230	3.1
2005	11.00	17.00	34.00	45.00	2956	18440	53829	1266	2547389	3.0
2006	11.00	17.00	34.00	45.00	3875	17269	60264	1231	2615129	3.1

JSG=juvenile small game license, RSG=resident small game license, CMB=combination license, NRSG=nonresident small game license.

Small game license sales and the proportion of the population purchasing small game licenses, Utah 2007–2010.

Year	License fee (\$)						Licenses sold*						Utah population	% residents purchasing a license
	JHL	RHL	CMB	NRHL	NRCMB	3DAY	JHL	RHL	CMB	NRHL	NRCMB	3DAY		
2007	11.00	26.00	30.00	65.00	80.00	25.00	2805	15304	100943	5297	697	—	2699554	3.8
2008	11.00	26.00	30.00	65.00	80.00	25.00	3463	9888	139524	24882	5089	—	2757779	5.5
2009	11.00	26.00	30.00	65.00	80.00	25.00	4068	7390	147792	22649	5461	565	2784572	5.7
2010	11.00	26.00	30.00	65.00	80.00	25.00	4442	6192	148534	20934	5494	567	2763885	5.8

JHL=juvenile (under 14 years of age) resident hunting license, RHL=resident hunting license, CMB=combination license, NRHL=nonresident hunting license, NRCMB=nonresident combination license, 3DAY=nonresident 3-days small game license.

\*As of July 1, 2007, the 365-day small game license was renamed a basic Hunting License. “Licenses sold” is for the period December 1 to December 31 of the following year.

## **APPENDIX D**

**PERMIT NUMBERS, SEASON DATES,  
BAG AND POSSESSION LIMITS, AND AREAS OPEN**

Upland game season dates, bag and possession limits, and areas open, Utah 2010 (Utah Upland Game Proclamation 2010–2011).

#### Band-tailed pigeon

- Season dates: September 1–September 30, 2010
- Areas open: Beaver, Garfield, Grand, Iron, Kane, Millard, Piute, San Juan, Sanpete, Sevier, Utah, Washington and Wayne counties.
- Bag limit: 5
- Possession limit: 2 bag limits
- Footnotes: Band-tailed pigeon permit required.

#### Chukar partridge

- Season dates: September 25, 2010–February 13, 2011
- Areas open: Statewide. The following areas will be closed to general public hunting on Saturday, September 4, 2010 to facilitate youth chukar hunts: Morgan and Summit counties, the Henefer-Echo WMA; Tooele County, the Carr Fork WMA; Uintah County, the RT Thacker Walk-in-Access property; Carbon County, the Gordon Creek WMA; and Millard County, the Pahvant WMA. These areas will reopen to general public hunting on September 5.
- Bag limit: 5
- Possession limit: 2 bag limits
- Footnotes: Antelope Island is closed to upland game hunting.

#### Cottontail rabbit

- Season dates: September 11, 2010–February 28, 2011
- Areas open: Statewide, except closed areas
- Bag limit: 10
- Possession limit: 2 bag limits

#### Eurasian collared-dove

- Season dates: Year round
- Areas open: Eurasian collared-doves may be hunted without a license, year round.
- Bag limit: No limit
- Possession limit: No limit
- Footnotes: Eurasian collared-doves, if taken during the dove season, will not count as part of the aggregate dove bag and possession limits. Eurasian collared-doves taken during the dove season should remain unplucked during transport so they can be distinguished from mourning and white-winged doves.

#### Forest-grouse (Blue and ruffed)

- Season dates: September 11–December 31, 2010
- Areas open: Statewide, except closed areas
- Bag limit: 4
- Possession limit: 2 bag limits
- Footnotes: Limits singly or in the aggregate.



## Upland game season dates, bag and possession limits, and areas open, Utah 2010 (cont.).

### Hungarian partridge (General season)

- Season dates: September 25, 2010–February 13, 2011
- Areas open: Statewide, except closed areas
- Bag limit: 5
- Possession limit: 2 bag limits

### Jackrabbit (white-tailed and black-tailed)

- Areas open: Jackrabbits are not protected in Utah. They may be hunted without a license, year-round.

### Mourning dove and white-winged dove

- Season dates: September 1–September 30, 2010
- Areas open: Statewide, except closed areas
- Bag limit: 10
- Possession limit: 2 bag limits
- Footnotes: Eurasian collared-doves should remain fully feathered so they can be distinguished from mourning and white-winged doves.

### Pheasant (General season)

- Season dates: November 6–November 21, 2010
- Areas open: Statewide, except closed areas. The following areas will be closed to general public hunting on Saturday, November 13 to facilitate youth hunts: Box Elder County, the Douglas/Sorensen walk-in access area; Duchesne County, the Mallard Springs WMA; Emery County, the Huntington WMA; Tooele County, the Carr Fork WMA; Millard County, the Pahvant WMA. These areas will reopen to general public hunting on November 14.
- Bag limit: 2
- Possession limit: 2 bag limits
- Footnotes: Only males may be harvested. No 8 a.m. restriction on opening morning. The Goshen Warm Springs WMA in Utah County is closed to all hunting.

### Pheasant (Extended season)

- Season dates: November 6–December 5, 2010
- Areas open: CAUTION: Not all counties are open for the extended season. Only the following areas are open: All state and federal land in Carbon, Duchesne, Emery, Grand, Juab, Millard, San Juan, Sanpete, Sevier, Tooele and Uintah counties (including private land leased by the Division subject to restrictions and closures imposed by administering agencies). Also, see above closures for youth hunts on November 13.
- Bag limit: 2
- Possession limit: 2 bag limits
- Footnotes: Only males may be harvested. No 8 a.m. restriction on opening morning.

Upland game season dates, bag and possession limits, and areas open, Utah 2010 (cont.).

Quail (California and Gambel's)

- Season dates: November 6–November 21, 2010
- Areas open: Box Elder, Carbon, Davis, Grand, Juab, Kane, Millard, Piute, Salt Lake, San Juan, Sanpete, Sevier, Tooele, Utah and Weber counties. All of Emery County except the Desert Lake WMA, which is closed. Also, see closures for youth hunts listed under general pheasant hunt.
- Bag limit: 5
- Possession limit: 2 bag limits
- Footnotes: No 8 a.m. restriction on opening morning.

Quail (California and Gambel's—extended season)

- Season dates: November 6–December 31, 2010
- Areas open: Duchesne, Uintah, Daggett and Washington counties. Also see closures for youth hunts listed above under general pheasant hunt.
- Bag limit: 5
- Possession limit: 2 bag limits
- Footnotes: No 8 a.m. restriction on opening morning.

Quail (Scaled)

- Season dates: Closed
- Bag limit: Closed

Sage-grouse (West Box Elder County)

- Season dates: September 25–October 10, 2010
- Areas open: Hunt #9000 West Box Elder — Box Elder County--That part of Box Elder County west of the following line: Line begins on the Utah Idaho state line and the Locomotive Springs-Snowville-Stone, Idaho Road; south on this road to Locomotive Springs; then due south along an imaginary line (approximately 112° 50' 00" West Longitude) to the Box Elder-Tooele County line.
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Footnotes: Sage-grouse permit is required. There are 230 two-bird permits available.

Sage-grouse (Rich County)

- Season dates: September 25–October 10, 2010
- Areas open: Hunt #9001 Rich County—All of Rich County
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Footnotes: Sage-grouse permit required. There are 266 two-bird permits available.

Upland game season dates, bag and possession limits, and areas open, Utah 2010 (cont.).

Sage-grouse (Diamond/Blue Mtn.)

- Season dates: September 25–October 10, 2010
- Areas open: Hunt #9002 Diamond / Blue Mtn.—Daggett and Uintah counties—Boundary begins at US-40 and the Utah-Colorado state line; west on US-40 to Vernal and 500 West; north on 500 West to 500 North; west on 500 North to 3500 West (Dry Fork Canyon road); north on 3500 West to Dry Fork Canyon; northwest along Dry Fork Canyon to the Red Cloud Loop road; north and east along Red Cloud Loop to US-191; north on US-191 to the south shore of Flaming Gorge Reservoir; east along this shore to the Green River; southeast along the Green River to the Utah-Colorado state line; south along this state line to US-40.
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Footnotes: Sage-grouse permit required. There are 72 two-bird permits available.

Sage-grouse (Parker Mountain)

- Season dates: September 25–October 10, 2010
- Areas open: Hunt #9003 Parker Mountain—Garfield, Piute, Sevier and Wayne counties—Boundary begins at the junction of SR-24 and I-70 near Sigurd; south on SR-24 to SR-62; south on SR-62 to SR-22; south on SR-22 to Antimony; south on John's Valley Road through Widtsoe to Bryce Junction and SR-12; east and north on SR-12 to SR-24; west on SR-24 to SR-72 at Loa; north on SR-72 to I-70; west on I-70 to SR-24.
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Footnotes: Sage-grouse permit required. There are 241 two-bird permits available.

Sandhill crane (Box Elder County)

- Season dates: September 4–September 12, 2010
- Areas open: Hunt #9200 East Box Elder County. Beginning on the Utah-Idaho state line at the Box Elder-Cache county line; west on this state line to the Pocatello Valley county road; south on this county road to I-84; southeast on I-84 to SR-83; south on SR-83 to Lampo Junction and the Promontory Point county road; west and south on the Promontory Point county road to the tip of Promontory Point; south from Promontory Point to the Box Elder-Weber county line; east on this county line to the Box Elder-Cache county line; north on this county line to the Utah-Idaho state line.
- Possession limit: Only 1 bird of either sex may be taken during the entire season.
- Footnotes: Sandhill crane permit required. Harold Crane, Public Shooting Grounds and Salt Creek Waterfowl Management Areas are closed to Sandhill Crane hunting. Bear River National Wildlife Refuge is closed to Sandhill Crane hunting. There are 46 permits available.

Upland game season dates, bag and possession limits, and areas open, Utah 2010 (cont.).

Sandhill crane (Cache County)

- Season dates: September 4–September 12, 2010
- Areas open: Hunt #9201 Cache County. All of Cache County, excluding the area beginning at SR-30 and the Box Elder-Cache county line; south and east along this county line to US-91; north and east on US-91 to the Little Bear River; north along the Little Bear River to SR-30; west on SR-30 to the Box Elder-Cache county line.
- Possession limit: Only 1 bird of either sex may be taken during the entire season. There are 51 permits available.

Sandhill crane (Rich County)

- Season dates: September 4–September 12, 2010
- Areas open: Hunt #9202 Rich County. All of Rich County
- Possession limit: Only 1 bird of either sex may be taken during the entire season.
- Footnotes: Sandhill crane permit required. There are 33 permits available.

Sandhill crane (Uintah County)

- Season dates: September 18–September 26, 2010
- Areas open: Hunt #9203 Uintah County. All of Uintah County
- Possession limit: Only 1 bird of either sex may be taken during the entire season.
- Footnotes: Sandhill crane permit required. There are 174 permits available.

Sharp-tailed grouse (Box Elder County)

- Season dates: September 25–October 10, 2010
- Areas open: Hunt #9100 Box Elder County. That part of Box Elder County beginning at I-15 and SR-83; west on SR-83 to Lampo Junction and the Union Pacific-Central Pacific Railroad Grade; west along the Union Pacific-Central Pacific Railroad Grade to Locomotive Springs; north on the Locomotive Springs-Snowville-Stone, Idaho Road to the Utah-Idaho state line; east along this state line to I-15; south on I-15 to SR-83.
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Footnotes: Sharp-tailed grouse permit required. This hunt is comprised of all or largely private property. Hunters should acquire written permission from the landowner before obtaining a permit for this hunt. There are 331 two-bird permits available.

Upland game season dates, bag and possession limits, and areas open, Utah 2010 (cont.).

Sharp-tailed grouse (Cache County)

- Season dates: September 25–October 10, 2010
- Areas open: Hunt #9101 Cache County. Beginning on the Utah-Idaho state line and I-15; south on I-15 to US-89/91 at Brigham City; northeast on US-89/91 to the Box Elder-Cache county line; south on this county line to the Cache-Weber county line; east on this county line to the Cache-Rich county line; north on this county line to the Utah-Idaho state line; west along the Utah-Idaho state line to I-15.
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Footnotes: Sharp-tailed grouse permit required. This hunt is comprised of all or largely private property. Hunters should acquire written permission from the landowner before obtaining a permit for this hunt. There are 91 two-bird permits available.

Snowshoe hare

- Season dates: September 11, 2010–February 28, 2011
- Areas open: Statewide, except closed areas
- Bag limit: 5
- Possession limit: 2 bag limits

White-tailed ptarmigan

- Season dates: August 21–October 17, 2010
- Areas open: Daggett, Duchesne, Summit and Uintah counties
- Bag limit: 4
- Possession limit: 2 bag limits
- Footnotes: White-tailed ptarmigan permit required.

Limited entry and general season wild turkey permit numbers, season dates, and open areas, Utah 2010 (Turkey Proclamation 2010).

Hunt number	Hunt name	Season dates	Permits available
100	Central region limited entry	April 10-29, 2010	500
101	Northeastern region limited entry	April 10-29, 2010	250
102	Northern region limited entry	April 10-29, 2010	400
103	Southeastern region limited entry	April 10-29, 2010	250
104	Southern region limited entry	April 10-29, 2010	1,100
	Statewide general season	May 3-31, 2010	Unlimited
	Statewide general season youth hunt (ages 15 yrs of age or younger)	April 30-May 2, 2010	Unlimited

CWMU wild turkey permit numbers, season dates, and open areas, Utah 2010 (Turkey Proclamation 2010).

Hunt number	CWMU name	Season dates	Public permits	Operator
700	Broadmouth	Contact operator	1	Garet Jones
701	Castle Valley Outdoors	Contact operator	1	James Fauver
702	Folley Ridge	Contact operator	5	John Hansen
703	Heaston East	Contact operator	2	Terry Thatcher
704	Missouri Flat	Contact operator	5	Jed Wayment
705	Redd Ranches	Contact operator	3	David Redd

Turkey hunt unit boundaries, Utah 2010 (Turkey Proclamation 2010).

Central Region (Hunt #100)

Juab, Salt Lake, Sanpete, Tooele, Summit, Utah and Wasatch counties —Boundary begins at the Utah/Nevada state line and the Box Elder/Tooele county line; east on this county line to the Tooele/Davis county line; south on this county line to the Davis/Salt Lake county line; east on this county line to the Salt Lake/Morgan county line; south on this county line to the Salt Lake/Summit county line; south on this county line to I-80; east on I-80 to US-40; south on US-40 to SR-248; east on this road to SR-32; south on this road to SR-35; east on this road to USFS Road 054 (Mill Hollow road); south on this road to Heber Mountain and the Strawberry Valley/Currant Creek drainage divide; south along this drainage divide to US-40; west on US-40 to the Soldier Creek Dam road; south on this road to the Strawberry River; east along this river to Beaver Creek; southwest along this creek to Big Beaver Spring and USFS Road 081; south and west on this road (Reservation Ridge road and down Right Fork of White River road) to US-6; west on US-6 to the Utah/Wasatch county line; south on this county line to the Spanish Fork Canyon/Scofield drainage divide; south on this drainage divide to Bear Ridge; west along this ridge to the Skyline Drive road; south on this road to the Sanpete/Sevier county line; west on this county line to the Sevier River; north along this river to the Millard/Juab county; west on this county line to the Utah/Nevada state line; north on this state line to the Box Elder/Tooele county line. EXCLUDES ALL NATIVE AMERICAN TRUST LANDS WITHIN THIS BOUNDARY.

Northeastern Region (Hunt #101)

Daggett, Duchesne, Grand, Summit, Uintah, Utah and Wasatch counties—Boundary begins at Three Corners (Utah/Colorado/Wyoming state lines); west on the Utah/Wyoming state line to the Burnt Fork/Birch Creek drainage divide; south along this drainage divide to the Burnt Fork/Sheep Creek drainage divide; south on this boundary to the Summit/Duchesne county line (summit of the Uinta Mountains); west along this county line (along the summit of the Uinta Mountains) to SR-150 at Hayden Pass; south on SR-150 to USFS Road 037 (Soapstone Basin road); south on this road to SR-35; west on this road to USFS Road 054 (Mill Hollow road); south on this road to Heber Mountain and the Strawberry Valley/Currant Creek drainage divide; south along this drainage divide to US-40; west on US-40 to the Soldier Creek Dam road; south on this road to the Strawberry River; east along this river to Beaver Creek; southwest along this creek to Big Beaver Spring and USFS Road 081 (Reservation Ridge Road); south on this road to USFS Road 147; south and east on this road (continuing along Reservation Ridge) to US-191; north on US-191 to the Duchesne River/Nine Mile Creek drainage divide; east along this drainage divide to the Green River; south along this river to Coal Creek; east along this creek to the Book Cliffs drainage divide; east along this drainage divide to the Utah/Colorado state line; north on this state line to Three Corners (Utah/Colorado/Wyoming state lines). EXCLUDES ALL NATIVE AMERICAN TRUST LANDS WITHIN THIS BOUNDARY.

Turkey hunt unit boundaries, Utah 2010 (Turkey Proclamation 2010) (cont.).

Northern Region (Hunt #102)

Box Elder, Cache, Daggett, Davis, Duchesne, Morgan, Rich, Summit, Wasatch and Weber counties—Boundary begins at the Utah/Nevada state line and the Box Elder/Tooele county line; east on this county line to the Tooele/Davis county line; southeast on this county line to the Davis/Salt Lake county line; east on this county line to the Salt Lake/Summit county line; south on this county line to I-80; east on I-80 to US-40; south on US-40 to SR-248; east on this road to SR-32; south on this road to SR-35 (at Francis); east on this road to USFS Road 037 (Soapstone Basin road); north on this road to SR-150; northeast on this road to the Summit/Duchesne county line at Hayden Pass; east on this county line (along the summit of the Uinta Mountains) to the Burnt Fork/Sheep Creek drainage divide; north along this drainage divide to the Burnt Fork/Birch Creek drainage divide; north along this drainage divide to the Utah-Wyoming state line; west and north on this state line to the Utah-Idaho state line; west on this state line to the Utah-Nevada state line; south on this state line to the Tooele/Box Elder county line. EXCLUDES ALL NATIVE AMERICAN TRUST LANDS WITHIN THIS BOUNDARY.

Southeastern Region (Hunt #103)

Carbon, Emery, Garfield, Grand, San Juan, Sanpete, Sevier and Wayne counties—Boundary begins at the Utah/Arizona state line and the west shore of Lake Powell; northeast along the west shore of Lake Powell to the Burr Trail road; north on this road to the Notom road; north on this road to SR-24; east on this road to Caineville and the Caineville Wash road; north on this road to the Cathedral Valley road; west on this road to Rock Springs Bench and the Last Chance Desert road; north on this road to the Blue Flats road; north and east on this road to the Willow Springs road; north on this road towards Windy Peak and the Windy Peak road; west on this road to I-70; west on I-70 to US-89 (Alt. 89) near Salina; north on US-89 (Alt. 89) to the Sanpete/Sevier county line; east on this county line to the Skyline Drive road; north on this road to Bear Ridge; east along this ridge to the Spanish Fork/Scofield drainage divide; north along this drainage divide to the Utah/Wasatch county line; north on this county line to US-6; east on US-6 to USFS Road 081 (Right Fork of White River); northeast along USFS Road 081 to USFS Road 147 (Reservation Ridge Road); south and east on this road (continuing along Reservation Ridge) to US-191; north on US-191 to the Duchesne River/Nine Mile Creek drainage divide; east along this drainage divide to the Green River; south along this river to Coal Creek; east along this creek to the Book Cliffs Drainage divide; east along this drainage divide to the Utah/Colorado state line; south on this state line to the Utah/Arizona state line; west on this state line to the west shore of Lake Powell. EXCLUDES ALL NATIVE AMERICAN TRUST LANDS WITHIN THIS BOUNDARY.



Turkey hunt unit boundaries, Utah 2010 (Turkey Proclamation 2010) (cont.).

Southern Region (Hunt #104)

Beaver, Emery, Garfield, Iron, Juab, Kane, Millard, Piute, Sanpete, Sevier, Washington and Wayne counties—Boundary begins at the Utah-Arizona state line and the west shore of Lake Powell; northeast along the west shore of Lake Powell to the Burr Trail road; north on this road to the Notom road; north on this road to SR-24; east on this road to Caineville and the Caineville Wash road; north on this road to the Cathedral Valley road; west on this road to Rock Springs Bench and the Last Chance Desert road; north on this road to the Blue Flats road; north and east on this road to the Willow Springs road; north on this road towards Windy Peak and the Windy Peak road; west on this road to I-70; west along I-70 to US-89 (Alt. 89) near Salina; north along US-89 (Alt. 89) to the Sanpete/Sevier county line; west on this county line to the Sevier River; north along this river to the Millard/Juab county line; west on this county line to the Utah/Nevada state line; south on this state line to the Utah/Arizona state line; east on this state line to the west shore of Lake Powell. EXCLUDES ALL NATIVE AMERICAN TRUST LANDS WITHIN THIS BOUNDARY.