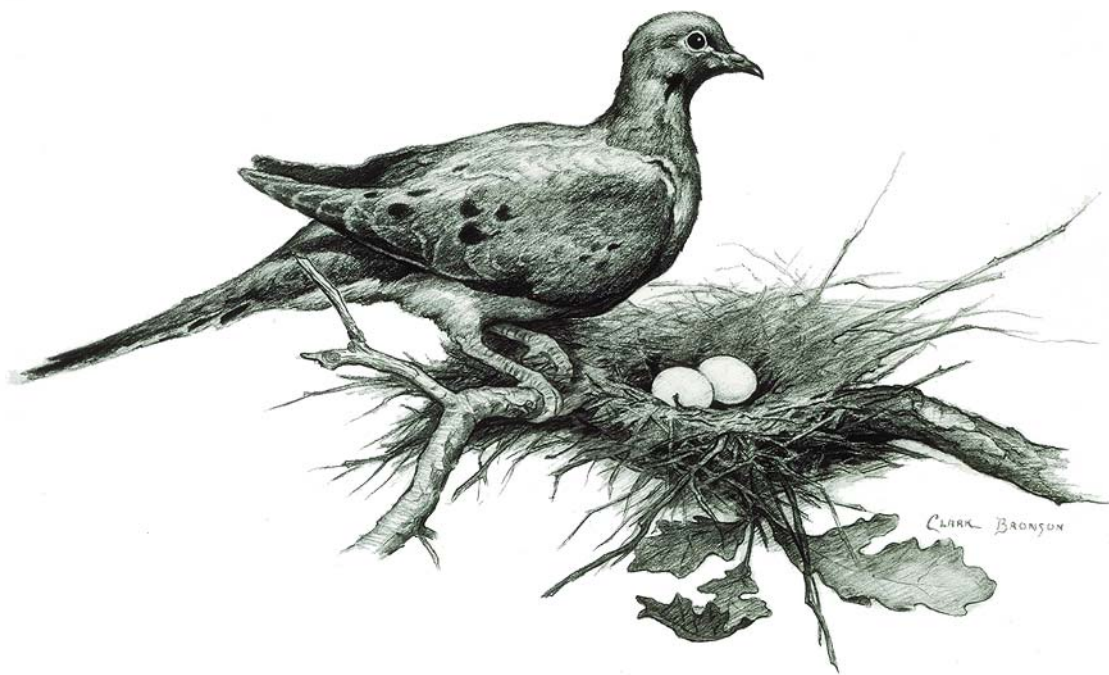


# UTAH UPLAND GAME ANNUAL REPORT 2018–19



Publication No. 19-23



# Utah Upland Game Annual Report 2018–19

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Annual Performance Report for Federal Aid Project W-65-M-66 & 67

State of Utah  
Department of Natural Resources  
DIVISION OF WILDLIFE RESOURCES

**Michal D. Fowlks**  
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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## DEFINITIONS

**General upland game:** Upland game species that can be hunted with a basic hunting or combination license and do not require any additional, species-specific permit. Upland game species in this category include American crow, chukar partridge, cottontail rabbit (desert and mountain), doves (mourning and white-winged), forest grouse (dusky and ruffed), gray (Hungarian) partridge, quail (Gambel's and California), ring-necked pheasant, and snowshoe hare.

**Special permit upland game:** Upland game species for which an additional, species-specific hunting permit is required, in addition to a basic hunting or combination license. Species in this category include band-tailed pigeon, greater sage-grouse, sandhill crane, sharp-tailed grouse, white-tailed ptarmigan, and wild turkey.

**Year:** This annual report covers the state fiscal year period July 1, 2018 through June 30, 2019 (hereafter referred to as 2018–19). All upland game surveys, inventories, and hunting seasons within this time frame are presented here. This report presents all data from the hunting seasons that were outlined in the 2018–19 Upland Game and Turkey Guidebook. Year designations in specific tables refer to the actual time frame of that survey/hunting season. For example, hunting seasons that occurred in the fall or the spring will have single year designations (e.g., 2018 or 2019, respectively), while fall/winter seasons will have an overlapping year designation (e.g., 2018–19).

## SAGE-GROUSE AND SHARP-TAILED GROUSE DEFINITIONS

**Lek:** Sage-grouse or sharp-tailed grouse strutting ground.

**Strutting grounds visited:** Total number of known sage-grouse or sharp-tailed grouse strutting grounds (leks) that were visited during spring counts, regardless of whether or not birds were actually present.

**Strutting grounds occupied:** Number of sage-grouse or sharp-tailed grouse strutting grounds (leks) that were active, i.e., grounds where male birds were present during spring counts.

**Average males / occupied ground:** Average number of male sage-grouse or sharp-tailed grouse that were counted at occupied or “active” grounds.

## 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 45<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 66 & 67. 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 2018–19 upland game hunting seasons, 2018 fall turkey season, 2019 spring turkey seasons, as well as inventory and trend surveys that took place from July 2018 through June 2019.

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/or 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, greater sage-grouse, sandhill crane, 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 to adjust for non-response bias. The sample was stratified by license type and then the data were projected by the total number of license holders within each stratum. Hunters with permits for band-tailed pigeon, greater sage-grouse, sandhill crane, sharp-tailed grouse, white-tailed ptarmigan, and wild turkey were surveyed through a separate mixed-mode web/telephone survey.

In Utah, hunters were required to purchase either a combination license or a basic hunting license before purchasing a species-specific hunting permit 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.

### **Changes and Corrections**

In 2016, modifications were made to the online harvest survey to help improve hunter's identification of rare species such as band-tailed pigeon and white-winged dove. Images with identifying characteristics were added to the survey, and additional follow-up was made with hunters who indicated that they harvested band-tailed pigeons. Decrease in harvest for these species in 2015 was most likely due to these changes and not an indication of a true decline.

## **RESULTS**

The percent of Utah residents who had any type of resident license valid for the 2018–19 upland game hunting season was 6.9% (U.S. Census Bureau's 2018 Utah population estimate: 3,161,105). 257,312 resident and nonresident hunting and combination licenses were valid for the 2018–19 Utah upland game hunting seasons. 78,599 people were randomly selected for participation in the general upland game harvest survey, representing a 30.5% sample. These hunters were sent an email inviting them to participate in the Internet-based harvest survey. Of those hunters contacted, 11,158 (14%) submitted an online harvest survey. A random sample of 6,233 hunters who did not respond to the Internet-based survey were contacted by telephone for the non-response bias correction survey. Survey information for turkey and other upland game species are presented in the table on the following page.

A total of 36,227 hunters went afield in 2018–19 in pursuit of various general upland game species. 10,783 hunters hunted wild turkey in spring 2019 and 2,756 hunters hunted wild turkey in fall 2018. Detailed information describing the upland game harvest can be found in the following tables. 2018–19 license and permit fees and number of licenses and permits sold by type are shown in Appendix C. Regulations for the 2018–19 upland game and 2019 wild turkey hunting seasons are shown in Appendix D.

Upland game survey methods and response rates, 2018–19.

Species	Survey method	Licenses / permits sold	Sample size
Band-tailed pigeon	Web/phone	305	111
General upland game	Web/phone	257312	17391
Greater sage-grouse	Web/phone	761	338
Sandhill crane	Web/phone	320	207
Sharp-tailed grouse	Web/phone	188	131
White-tailed ptarmigan	Web/phone	386	142
Wild turkey (fall 2018)	Web/phone	3415	928
Wild turkey (spring 2019 limited entry/CWMU)	Web/phone	2710	1137
Wild turkey (spring 2019 general season)	Web/phone	9969	2525



Summary of upland game harvest statistics, Utah 2018–19.

Species	Hunters afield	Total harvest	Hunter-days afield	Bag per hunter-day	Bag per hunter per season
American crow	476	1245	1705	0.7	2.6
Band-tailed pigeon	80	0	261	0.0	0.0
California quail	1111	2342	5319	0.4	2.1
Chukar partridge	6539	24710	32417	0.8	3.8
Cottontail rabbit	8223	39684	61955	0.6	4.8
Dove	9338	79837	36573	2.2	8.5
Mourning	—	73377	—	—	—
White-winged	—	2189	—	—	—
Unknown	—	4266	—	—	—
Forest grouse	10392	43726	47544	0.9	4.2
Dusky	—	18826	—	—	—
Ruffed	—	22487	—	—	—
Unknown	—	2409	—	—	—
Gambel's quail	869	2392	3300	0.7	2.8
Gray (Hungarian) partridge	685	1663	2670	0.6	2.4
Greater sage-grouse	519	436	1130	0.4	0.8
Ring-necked pheasant	18582	43671	72768	0.6	2.4
Sandhill crane	268	203	500	0.4	0.8
Sharp-tailed grouse	103	85	244	0.3	0.8
Snowshoe hare	732	521	2118	0.2	0.7
White-tailed ptarmigan	120	60	516	0.1	0.5
Wild turkey (fall 2018)	2756	1678	14429	0.1	0.6
Wild turkey (spring 2019 limited entry/CWMU)	2164	858	—	—	0.4
Wild turkey (spring 2019 general season)	8619	2209	—	—	0.3

Number of general upland game hunters afield by species or species group, Utah 2009–2019.

Species	Year									
	2009–10	2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	2016–17	2017–18	2018–19
American crow	—	—	—	—	—	581	638	540	449	476
California quail	1588	1043	1082	1212	1006	1478	1201	1378	1223	1111
Chukar partridge	6562	6272	5572	5448	5527	5678	7256	7940	6884	6539
Cottontail rabbit	6517	7684	6189	6618	6519	6678	15448	12873	8478	8223
Dove	11023	11372	8891	9784	9367	8113	10451	11511	7617	9338
Forest grouse	10791	10724	7941	9915	8888	8977	11052	12401	10336	10392
Gambel's quail	688	557	468	495	477	**	724	539	847	869
Gray (Hungarian) partridge	1817	1006	918	1119	574	765	751	1047	815	685
Ring-necked pheasant	16798	18103	14188	14315	15838	17074	19855	22299	22062	18582
Snowshoe hare	766	631	634	645	568	345	1192	1326	720	732
Total hunters*	34271	35639	28617	29928	31330	32097	41340	43038	39371	36227

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

\*\*Included with California quail hunters.

Number of special permit upland game hunters afield by species, Utah 2009–2019.

Species	Year									
	2009–10	2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	2016–17	2017–18	2018–19
Band-tailed pigeon	78	51	90	70	54	44	44	16	31	80
Greater sage-grouse	628	650	429	530	631	852	935	888	593	519
Sandhill crane	228	253	202	167	117	88	122	105	295	268
Sharp-tailed grouse	209	233	177	198	163	109	159	121	78	103
White-tailed ptarmigan	49	95	76	74	65	76	99	106	88	120
Wild turkey (fall)	—	—	—	—	—	281	597	875	713	2756
Wild turkey (spring)	10941	8291	7055	8354	9395	10232	11155	11060	11262	10783

Percent of general upland game hunters afield who reported hunting each species or species group, Utah 2009–2019.

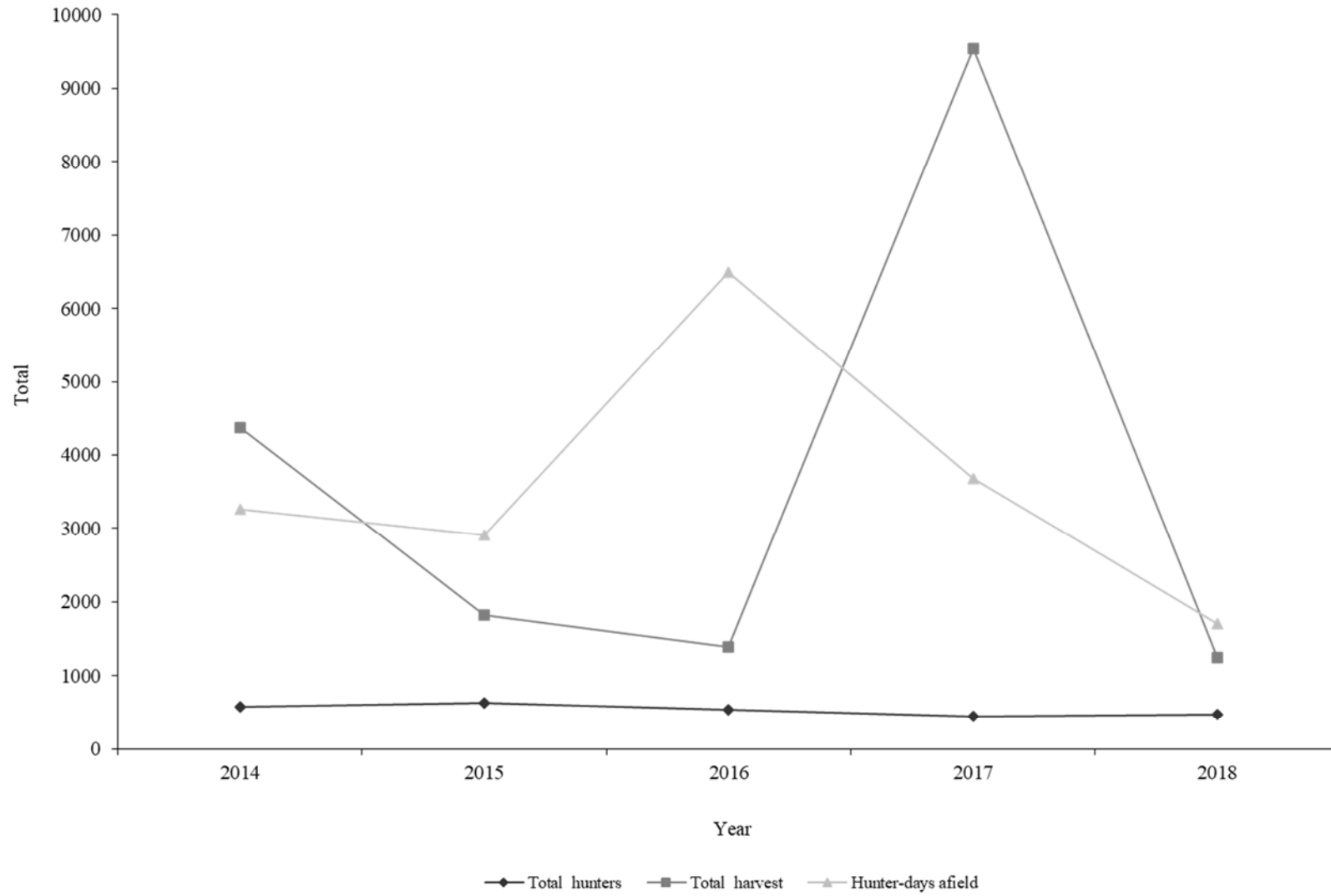
Species	Year									
	2009–10	2010–11	2011–12	2012–13	2013–14	2014–15	2015–16	2016–17	2017–18	2018–19
American crow	—	—	—	—	—	1.8	1.5	1.3	1.1	1.3
California quail	6.6	4.5	5.4	5.7	4.7	4.6	3.3	3.2	3.1	3.1
Chukar partridge	19.2	17.6	19.5	19.0	17.6	17.7	17.6	18.4	17.5	18.0
Cottontail rabbit	19.0	21.6	21.6	23.1	20.8	20.8	37.4	29.9	21.5	22.7
Dove	32.2	31.9	31.1	34.2	29.9	25.3	25.3	26.7	19.3	25.8
Forest grouse	31.5	30.1	27.7	34.6	28.4	28.0	26.7	28.8	26.3	28.7
Gambel's quail	1.5	0.7	2.1	1.7	1.5	*	1.5	1.3	2.2	1.9
Gray (Hungarian) partridge	5.3	2.8	3.2	3.9	1.8	2.4	1.8	2.4	2.1	1.9
Ring-necked pheasant	49.0	50.8	49.6	50.0	50.6	53.2	48.0	51.8	56.0	51.3
Snowshoe hare	2.2	1.8	2.2	2.3	1.8	1.1	2.9	3.1	1.8	2.0

\*Included with California quail.

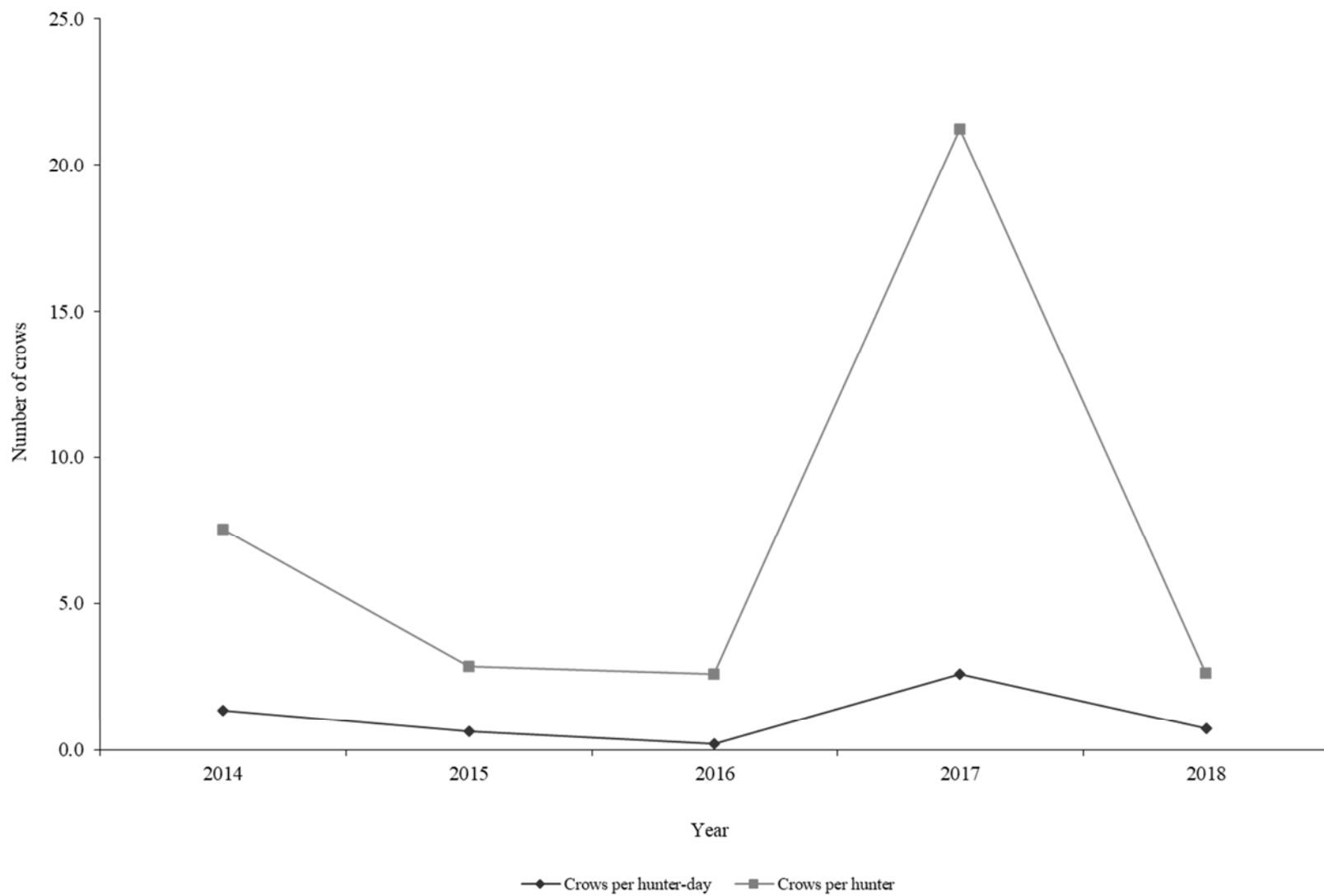
# AMERICAN CROW



Statewide trends in American crow harvest statistics, Utah 2014–2018.



Statewide trends in American crow hunter success, Utah 2014–2018.



American crow harvest statistics by region and county, Utah 2018.

Region and county	n	Hunters afield	Hunter-days afield	Crow bagged	Crow / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	13	83	97	97	1.0	5.7	7.8
Cache	5	32	43	36	0.8	2.5	2.9
Davis	12	76	198	261	1.3	11.6	21.0
Morgan	1	6	16	0	0.0	0.9	0.0
Rich	0	0	—	—	—	0.0	0.0
Summit	0	0	—	—	—	0.0	0.0
Weber	5	32	43	121	2.8	2.5	9.8
Regional total	36	229	397	515	1.3	23.3	41.5
Central Region							
Juab	6	38	97	67	0.7	5.7	5.4
Salt Lake	1	6	11	12	1.1	0.6	1.0
Sanpete	5	32	107	61	0.6	6.3	4.9
Tooele	4	25	70	79	1.1	4.1	6.3
Utah	8	51	129	140	1.1	7.5	11.2
Wasatch	0	0	—	—	—	0.0	0.0
Regional total	24	152	414	359	0.9	24.2	28.8
Southern Region							
Beaver	2	13	27	91	3.4	1.6	7.3
Garfield	0	0	—	—	—	0.0	0.0
Iron	0	0	—	—	—	0.0	0.0
Kane	1	6	54	0	0.0	3.1	0.0
Millard	8	51	606	55	0.1	35.5	4.4
Piute	1	6	5	6	1.2	0.3	0.5
Sevier	1	6	11	0	0.0	0.6	0.0
Washington	3	19	43	30	0.7	2.5	2.4
Wayne	0	0	—	—	—	0.0	0.0
Regional total	16	101	746	182	0.2	43.7	14.6
Northeastern Region							
Daggett	1	6	5	24	4.8	0.3	2.0
Duchesne	2	13	11	0	0.0	0.6	0.0
Uintah	2	13	21	6	0.3	1.3	0.5
Regional total	5	32	37	30	0.8	2.2	2.4
Southeastern Region							
Carbon	1	6	21	0	0.0	1.3	0.0
Emery	1	6	11	0	0.0	0.6	0.0
Grand	0	0	—	—	—	0.0	0.0
San Juan	2	13	80	158	2.0	4.7	12.7
Regional total	4	25	112	158	1.4	6.6	12.7
Unknown	0	0	—	—	—	0.0	0.0
Statewide total*	75	476	1705	1245	0.7	100.0	100.0

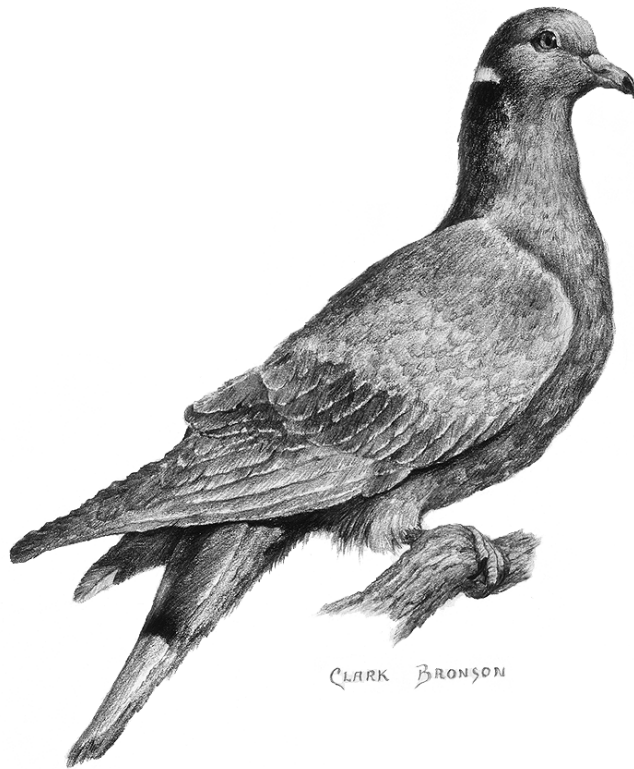
\*Statewide totals for sample size and hunters afield are not the total of the columns because hunters hunted multiple counties.

Statewide American crow harvest statistics, Utah 2014–2018.

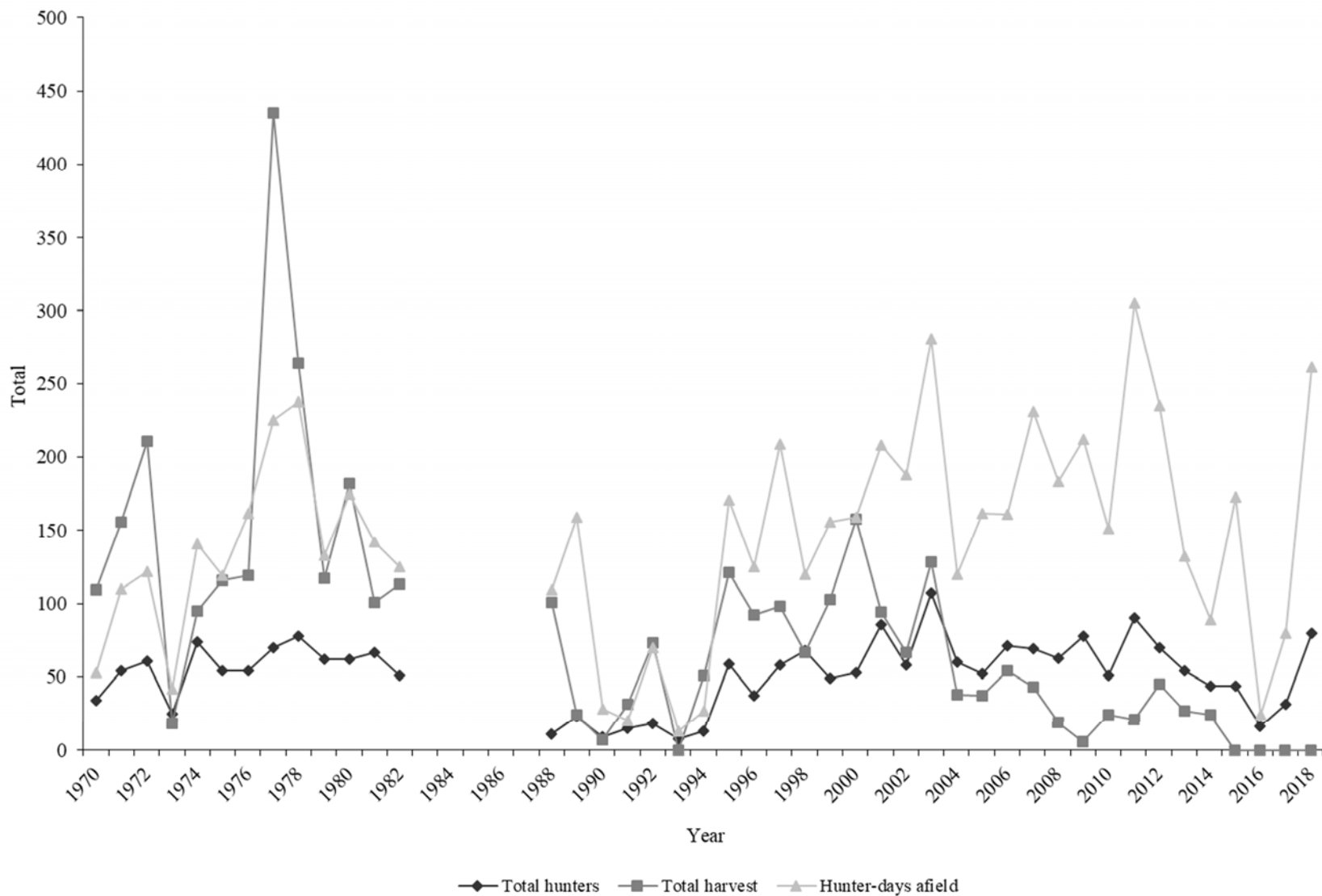
Year	Total hunters	Total harvest	Hunter-days afield	Crow / hunter-day	Crows / hunter
2014	581	4368	3265	1.3	7.5
2015	638	1821	2909	0.6	2.9
2016	540	1394	6487	0.2	2.6
2017	449	9540	3685	2.6	21.2
2018	476	1245	1705	0.7	2.6
Average (2014–2017)	552	4281	4087	1.2	8.6
% change from previous year	6	-87	-54	-72	-88
% change from average	-14	-71	-58	-39	-69



# BAND-TAILED PIGEON

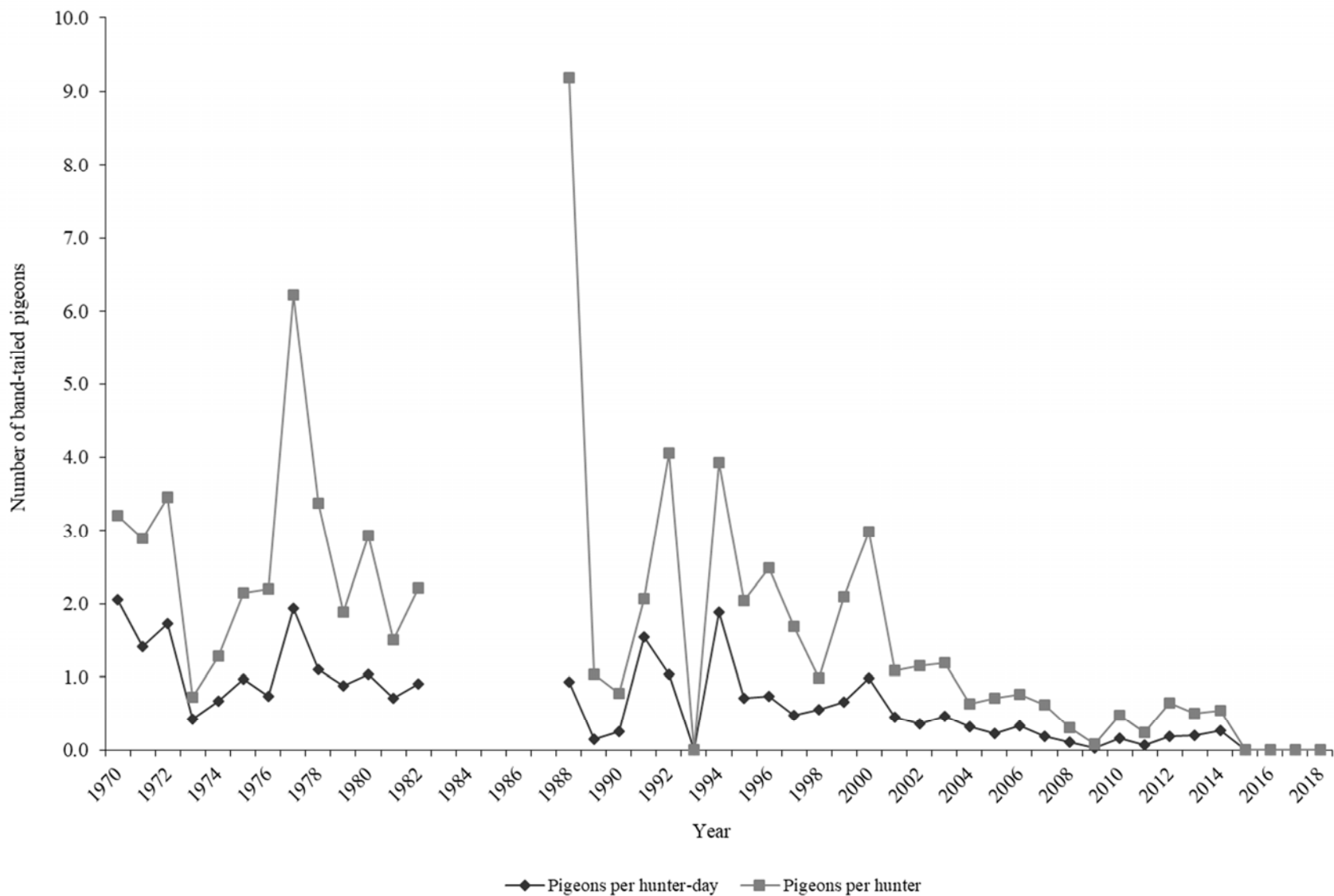


Statewide trends in band-tailed pigeon harvest statistics, Utah 1970–2018.



No data available 1983–1987.

Statewide trends in band-tailed pigeon hunter success, Utah 1970–2018.



No data available 1983–1987.

Band-tailed pigeon harvest statistics by region and county, Utah 2018.

Region and county	n	Hunters afield	Hunter-days afield	Pigeons bagged	Pigeons / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	1	3	5	0	0.0	1.9	0.0
Cache	5	14	41	0	0.0	15.7	0.0
Davis	2	5	14	0	0.0	5.4	0.0
Morgan	0	0	—	—	—	0.0	0.0
Rich	0	0	—	—	—	0.0	0.0
Summit	2	5	16	0	0.0	6.1	0.0
Weber	3	8	14	0	0.0	5.4	0.0
Regional total	13	35	90	0	0.0	34.5	0.0
Central Region							
Juab	0	0	—	—	—	0.0	0.0
Salt Lake	1	3	8	0	0.0	3.1	0.0
Sanpete	0	0	—	—	—	0.0	0.0
Tooele	1	3	8	0	0.0	3.1	0.0
Utah	9	25	71	0	0.0	27.2	0.0
Wasatch	0	0	—	—	—	0.0	0.0
Regional total	11	31	87	0	0.0	33.3	0.0
Southern Region							
Beaver	1	3	3	0	0.0	1.1	0.0
Garfield	0	0	—	—	—	0.0	0.0
Iron	0	0	—	—	—	0.0	0.0
Kane	0	0	—	—	—	0.0	0.0
Millard	4	11	27	0	0.0	10.3	0.0
Piute	0	0	—	—	—	0.0	0.0
Sevier	0	0	—	—	—	0.0	0.0
Washington	0	0	—	—	—	0.0	0.0
Wayne	0	0	—	—	—	0.0	0.0
Regional total	5	14	30	0	0.0	11.5	0.0
Northeastern Region							
Daggett	0	0	—	—	—	0.0	0.0
Duchesne	0	0	—	—	—	0.0	0.0
Uintah	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Southeastern Region							
Carbon	0	0	—	—	—	0.0	0.0
Emery	0	0	—	—	—	0.0	0.0
Grand	1	3	14	0	0.0	5.4	0.0
San Juan	2	5	19	0	0.0	7.3	0.0
Regional total	3	8	33	0	0.0	12.6	0.0
Unknown	2	5	19	0	0.0	7.3	0.0
Statewide total*	29	80	261	0	0.0	100.0	0.0

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

Statewide band-tailed pigeon harvest statistics, Utah 1970–2018.

Year	Total hunters	Total harvest	Hunter-days afield	Pigeons / hunter-day	Pigeons / hunter
1970	34	109	53	2.1	3.2
1971	54	156	110	1.4	2.9
1972	61	211	122	1.7	3.5
1973	25	18	42	0.4	0.7
1974	74	95	141	0.7	1.3
1975	54	116	119	1.0	2.1
1976	54	119	162	0.7	2.2
1977	70	435	225	1.9	6.2
1978	78	264	238	1.1	3.4
1979	62	117	133	0.9	1.9
1980	62	182	175	1.0	2.9
1981	67	101	142	0.7	1.5
1982*	51	113	125	0.9	2.2
1988	11	101	109	0.9	9.2
1989	23	24	159	0.2	1.0
1990	9	7	28	0.3	0.8
1991	15	31	20	1.6	2.1
1992	18	73	70	1.0	4.1
1993	8	0	13	0.0	0.0
1994	13	51	27	1.9	3.9
1995	59	121	171	0.7	2.1
1996	37	92	125	0.7	2.5
1997	58	98	209	0.5	1.7
1998	68	67	120	0.6	1.0
1999	49	103	156	0.7	2.1
2000	53	158	159	1.0	3.0
2001	86	94	208	0.5	1.1
2002	58	67	188	0.4	1.2
2003	107	128	281	0.5	1.2
2004	60	38	120	0.3	0.6
2005	52	37	162	0.2	0.7
2006	71	54	161	0.3	0.8
2007	69	43	231	0.2	0.6
2008	63	19	183	0.1	0.3
2009	78	6	212	0.0	0.1
2010	51	24	151	0.2	0.5
2011	90	21	305	0.1	0.2
2012	70	45	235	0.2	0.6
2013	54	27	132	0.2	0.5

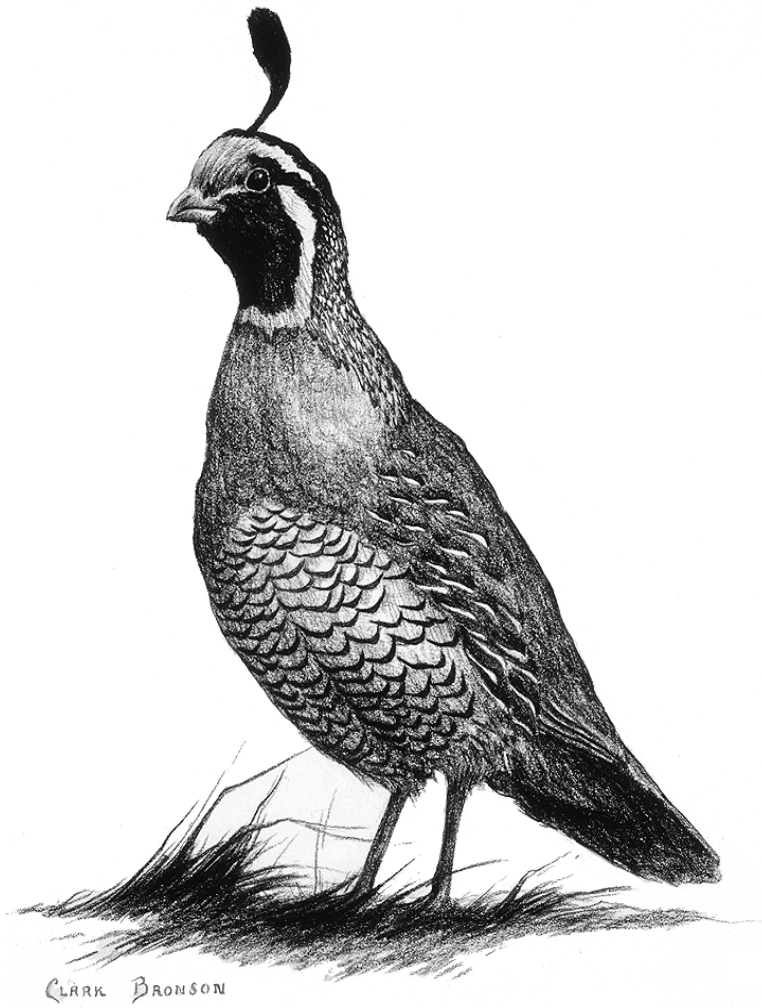
\*No data from 1983 to 1987.

Statewide band-tailed pigeon harvest statistics, Utah 1970–2018 (continued).

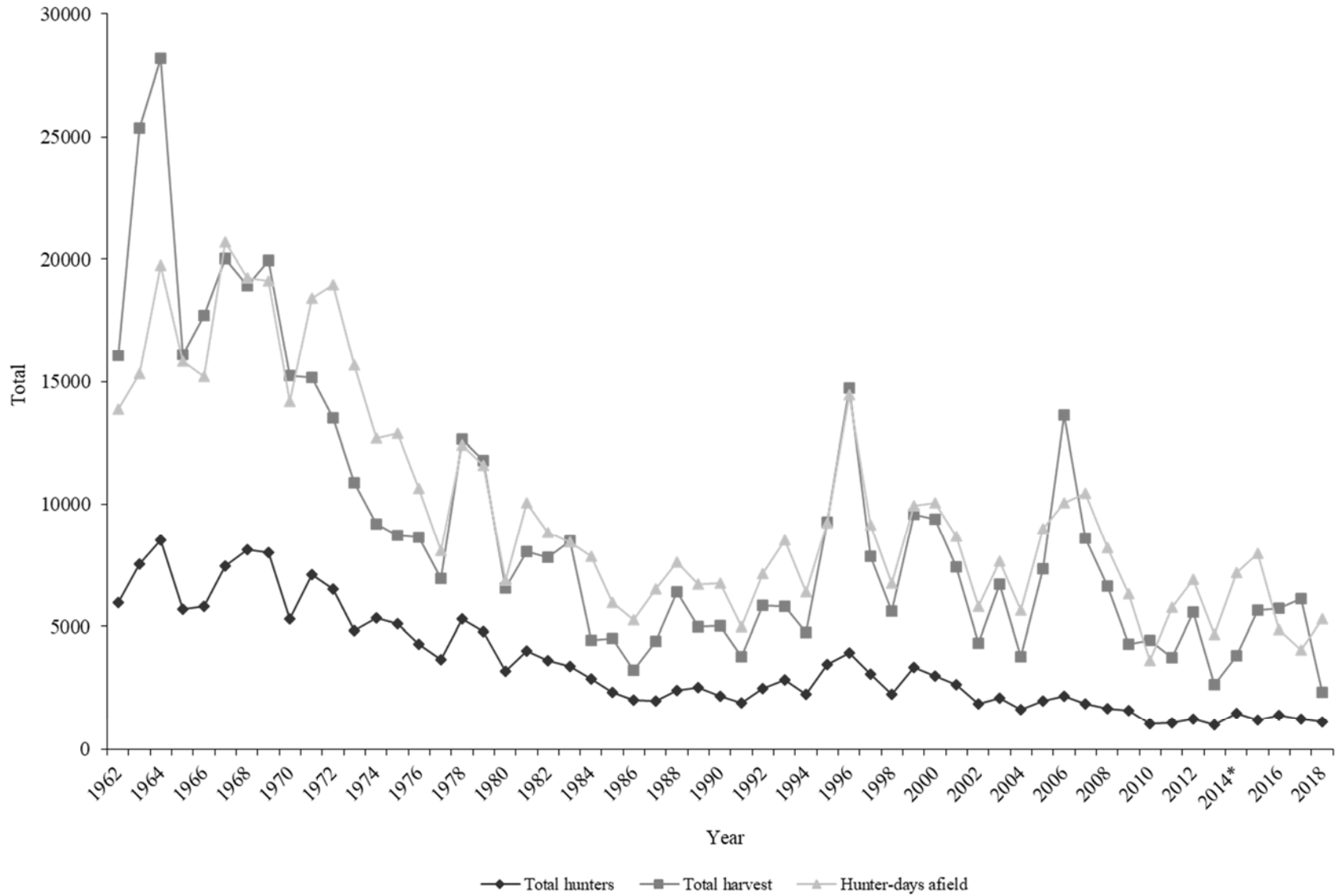
Year	Total hunters	Total harvest*	Hunter-days afield	Pigeons / hunter-day	Pigeons / hunter
2014	44	24	89	0.3	0.5
2015	44	0	173	0.0	0.0
2016	16	0	24	0.0	0.0
2017	31	0	80	0.0	0.0
2018	80	0	261	0.0	0.0
Average (1970–2017)	52	82	144	0.6	1.8
% change from previous year	158	0	226	0.0	0.0
% change from average	54	-100	81	-100	-100

\*Decrease in harvest beginning in 2015 was likely due to changes in survey methodology to help hunters better identify rare upland game species. Harvest in previous years was likely biased high due to misidentification.

# CALIFORNIA QUAIL



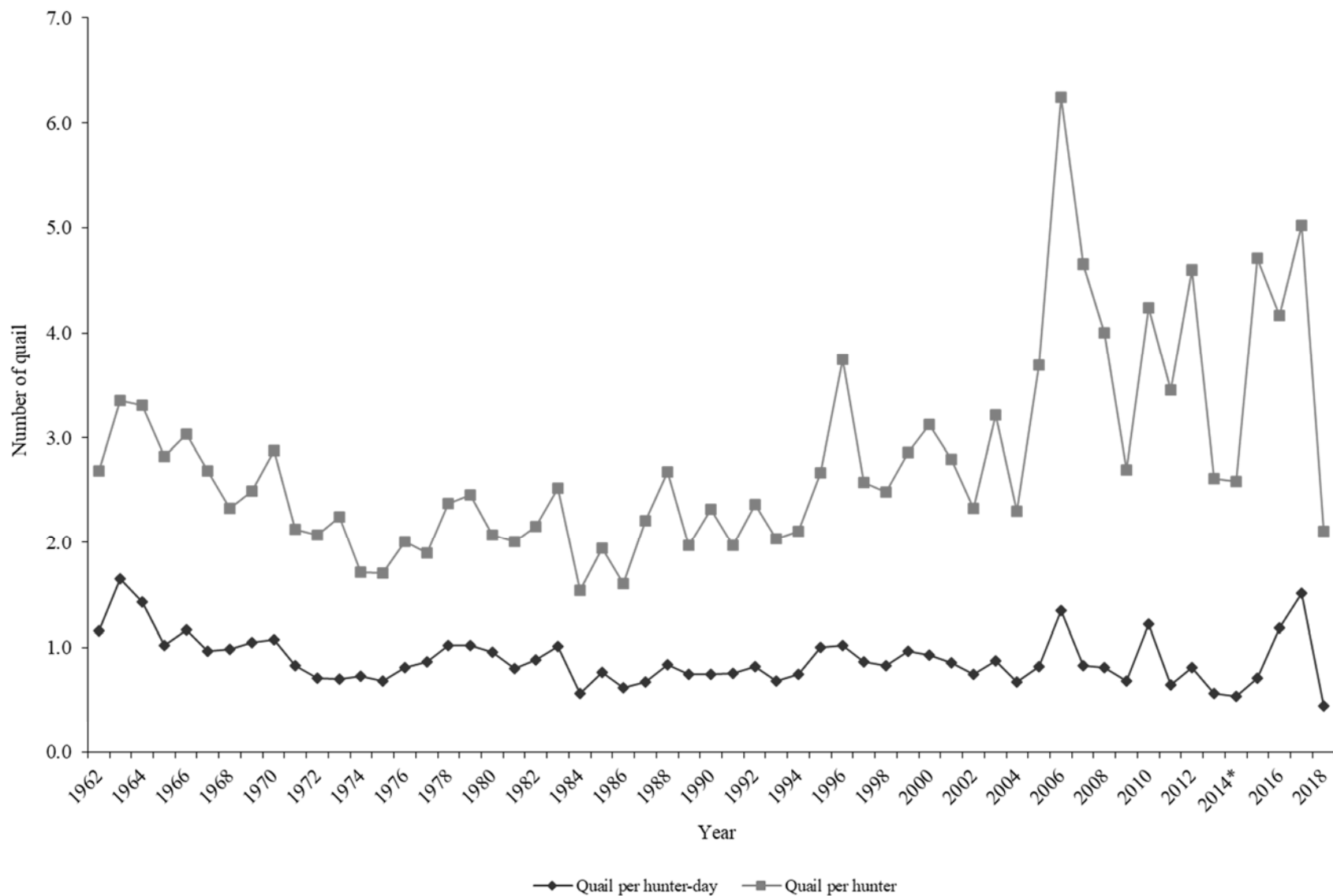
Statewide trends of California quail harvest statistics, Utah 1962–2018.



\*Includes Gambel's quail hunters and days-afield.



Statewide trends of California quail hunter success, Utah 1962–2018.



\*Includes Gambel's quail hunters and days-afield.

California quail harvest statistics by region and county, Utah 2018.

Region and county	n	Hunters afield	Hunter-days afield	Quail bagged	Quail / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	5	50	277	71	0.3	5.2	3.0
Cache	1	10	35	14	0.4	0.7	0.6
Davis	3	30	173	50	0.3	3.3	2.1
Morgan	0	0	—	—	—	0.0	0.0
Rich	0	0	—	—	—	0.0	0.0
Summit	0	0	—	—	—	0.0	0.0
Weber	7	69	242	163	0.7	4.6	7.0
Regional total	16	159	727	298	0.4	13.7	12.7
Central Region							
Juab	2	20	81	0	0.0	1.5	0.0
Salt Lake	0	0	—	—	—	0.0	0.0
Sanpete	3	30	138	21	0.2	2.6	0.9
Tooele	4	40	150	71	0.5	2.8	3.0
Utah	26	258	1235	475	0.4	23.2	20.3
Wasatch	2	20	69	0	0.0	1.3	0.0
Regional total	37	368	1673	567	0.3	31.5	24.2
Southern Region							
Beaver	4	40	115	50	0.4	2.2	2.1
Garfield	0	0	—	—	—	0.0	0.0
Iron	0	0	—	—	—	0.0	0.0
Kane	1	10	12	0	0.0	0.2	0.0
Millard	3	30	92	85	0.9	1.7	3.6
Piute	1	10	415	43	0.1	7.8	1.8
Sevier	7	69	265	85	0.3	5.0	3.6
Washington	7	69	277	64	0.2	5.2	2.7
Wayne	0	0	—	—	—	0.0	0.0
Regional total	23	228	1176	327	0.3	22.1	13.9
Northeastern Region							
Daggett	0	0	—	—	—	0.0	0.0
Duchesne	18	179	542	334	0.6	10.2	14.2
Uintah	17	169	715	653	0.9	13.4	27.9
Regional total	35	348	1257	987	0.8	23.6	42.1
Southeastern Region							
Carbon	1	10	23	21	0.9	0.4	0.9
Emery	6	60	438	142	0.3	8.2	6.1
Grand	0	0	—	—	—	0.0	0.0
San Juan	1	10	23	0	0.0	0.4	0.0
Regional total	8	80	484	163	0.3	9.1	7.0
Unknown	0	0	—	—	—	0.0	0.0
Statewide total*	112	1111	5319	2342	0.4	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 California quail harvest statistics, Utah 1962–2018.

Year	Total hunters	Total harvest	Hunter-days afield	Quail / hunter-day	Quail / hunter
1962	5980	16074	13856	1.2	2.7
1963	7557	25366	15326	1.7	3.4
1964	8526	28186	19745	1.4	3.3
1965	5700	16084	15814	1.0	2.8
1966	5834	17700	15180	1.2	3.0
1967	7470	20030	20709	1.0	2.7
1968	8118	18918	19248	1.0	2.3
1969	8005	19931	19105	1.0	2.5
1970	5299	15240	14193	1.1	2.9
1971	7120	15160	18410	0.8	2.1
1972	6520	13494	18972	0.7	2.1
1973	4854	10889	15651	0.7	2.2
1974	5356	9175	12669	0.7	1.7
1975	5098	8719	12892	0.7	1.7
1976	4305	8652	10653	0.8	2.0
1977	3662	6964	8093	0.9	1.9
1978	5324	12629	12428	1.0	2.4
1979	4802	11789	11571	1.0	2.5
1980	3172	6566	6871	1.0	2.1
1981	4012	8045	10062	0.8	2.0
1982	3632	7817	8844	0.9	2.2
1983	3370	8507	8440	1.0	2.5
1984	2883	4446	7857	0.6	1.5
1985	2336	4544	5958	0.8	1.9
1986	2020	3235	5276	0.6	1.6
1987	1985	4388	6521	0.7	2.2
1988	2387	6395	7614	0.8	2.7
1989	2530	4999	6720	0.7	2.0
1990	2161	5021	6771	0.7	2.3
1991	1913	3775	5010	0.8	2.0
1992	2470	5847	7162	0.8	2.4
1993	2851	5815	8532	0.7	2.0
1994	2250	4746	6399	0.7	2.1
1995	3474	9272	9252	1.0	2.7
1996	3925	14726	14446	1.0	3.8
1997	3055	7857	9146	0.9	2.6
1998	2257	5606	6747	0.8	2.5
1999	3346	9575	9937	1.0	2.9
2000	3005	9382	10072	0.9	3.1
2001	2659	7433	8683	0.9	2.8

Statewide California quail harvest statistics, Utah 1962–2018 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Quail / hunter-day	Quail / hunter
2002	1855	4311	5807	0.7	2.3
2003	2089	6717	7672	0.9	3.2
2004	1636	3768	5648	0.7	2.3
2005	1989	7344	8996	0.8	3.7
2006	2181	13626	10070	1.4	6.2
2007	1848	8595	10434	0.8	4.7
2008	1664	6655	8213	0.8	4.0
2009	1588	4275	6314	0.7	2.7
2010	1043	4427	3634	1.2	4.2
2011	1082	3741	5790	0.6	3.5
2012	1212	5578	6917	0.8	4.6
2013	1006	2626	4663	0.6	2.6
2014	1478*	3822	7197*	0.5	2.6
2015	1201	5653	7984	0.7	4.7
2016	1378	5739	4861	1.2	4.2
2017	1223	6137	4065	1.5	5.0
2018	1111	2342	5319	0.4	2.1
Average (1951–2017)	3453	9094	9902	0.9	2.8
% change from previous year	-9	-62	31	-71	-58
% change from average	-68	-74	-46	-50	-25

\*Includes Gambel's quail hunters and days-afield.

# CHUKAR PARTRIDGE



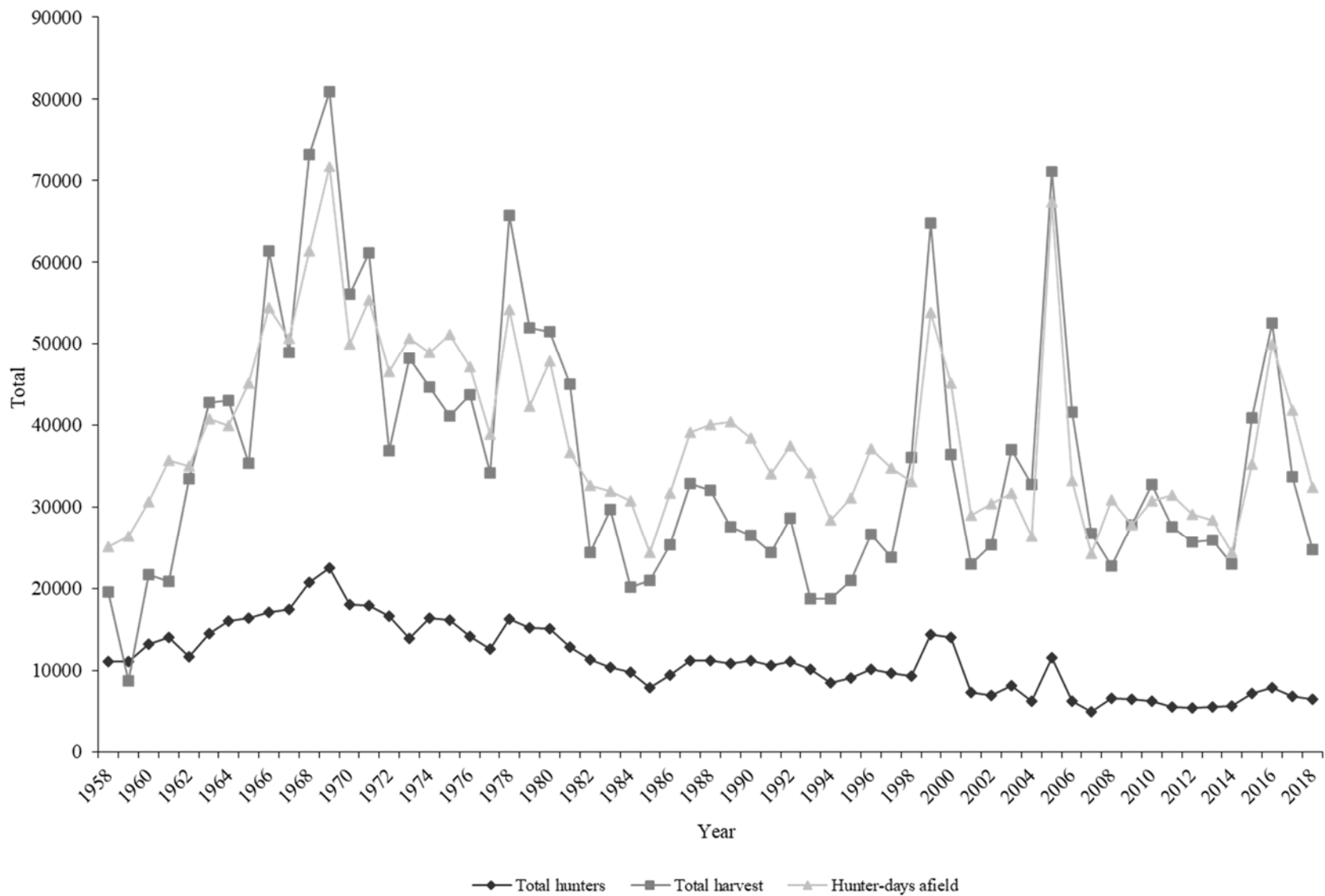
Chukar partridge aerial survey trends, Northeast Cedar Mountains, Tooele County, Utah 1996–2018.

Year	Coveys flushed	Total chukars observed	Square miles surveyed	Chukars / square mile
1996	12	103	6.5	15.9
1997	18	295	8.0	36.9
1998	52	939	8.0	117.4
1999	65	623	8.0	77.9
2000	23	96	8.0	12.0
2001	9	68	8.0	8.5
2002	5	36	8.0	4.5
2003	27	238	8.0	29.8
2004	15	167	8.0	20.9
2005	36	566	8.0	70.8
2006	50	779	8.0	97.4
2007	24	144	8.0	18.0
2008	22	94	5.0	18.8
2009	19	107	5.0	21.4
2010	6	22	5.0	4.4
2011	11	88	5.0	17.6
2012	25	229	5.0	45.8
2013	14	91	10.0	9.1
2014	27	298	12.7	23.5
2015	73	1215	12.0	101.3
2016	67	995	10.5	94.8
2017	35	205	7.8	26.3
2018	14	71	7.5	9.5
Average (1996–2017)	29	336	7.8	39.7
% change from previous year	-60	-65	-4	-64
% change from Average	-51	-79	-4	-76

Chukar partridge aerial survey trends, Box Elder County, Utah 2009–2018.

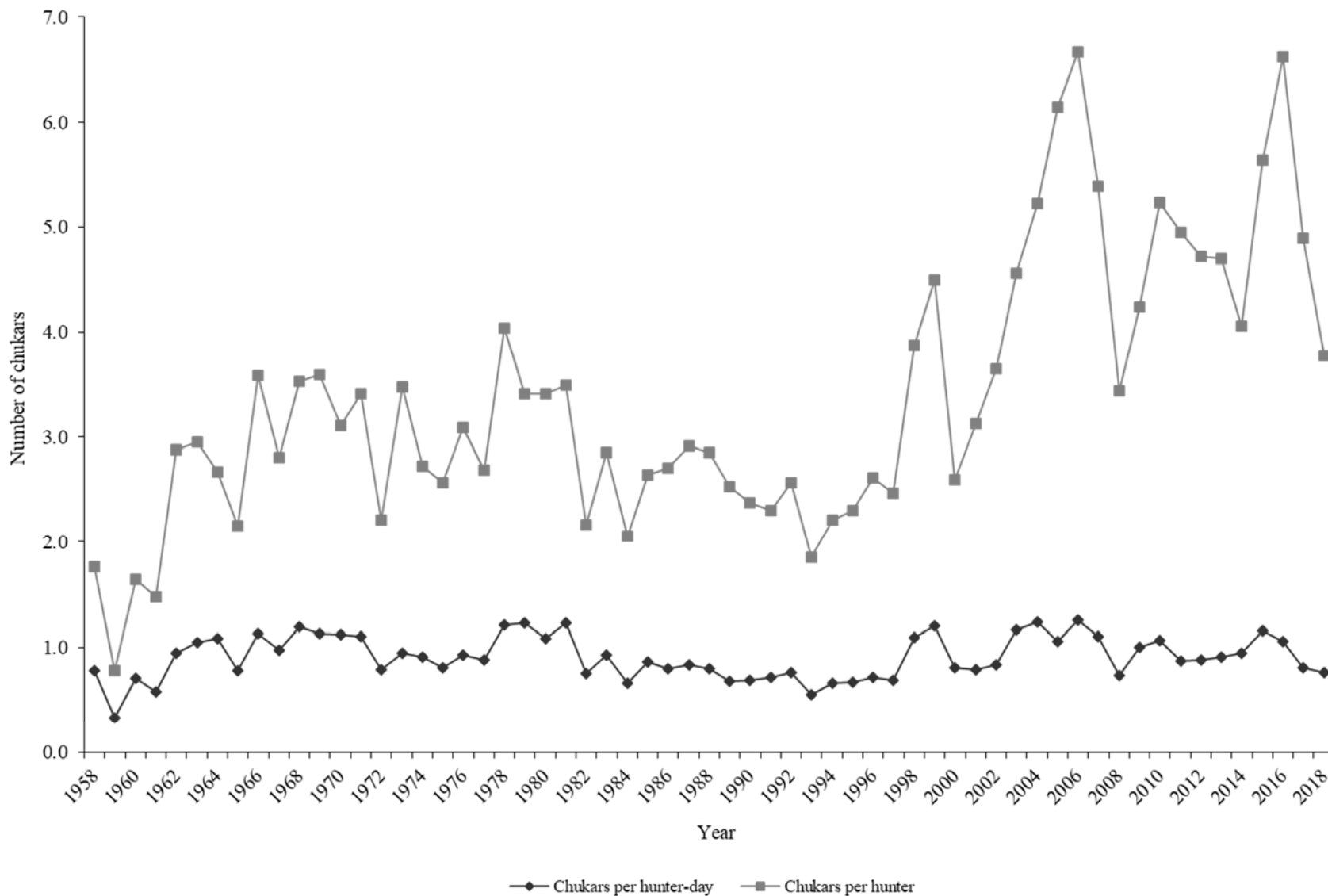
Year	Coveys flushed	Total chukars observed	Square miles surveyed	Chukars / square mile
2009	5	41	8.5	4.8
2010	14	125	8.5	14.7
2011	19	233	8.5	27.4
2012	18	76	8.5	8.9
2013	12	133	8.5	15.6
2014	8	125	8.0	15.6
2015	16	204	8.0	25.5
2016	12	268	8.0	33.5
2017	6	93	8.0	11.6
2018	7	65	8.0	8.1
Average (2009–2017)	12	136	8.3	17.5
% change from previous year	17	-30	0	-30
% change from average	-40	-52	-3	-54

Statewide trends of chukar partridge harvest statistics, Utah 1958–59 to 2018–19.





Statewide trends of chukar partridge hunter success, Utah 1958–59 to 2018–19.



Chukar partridge harvest statistics by region and county, Utah 2018–19.

Region and county	n	Hunters afield	Hunter-days afield	Chukars bagged	Chukars / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	89	1076	3585	4188	1.2	11.1	16.9
Cache	26	314	1022	522	0.5	3.2	2.1
Davis	2	24	278	0	0.0	0.9	0.0
Morgan	14	169	379	406	1.1	1.2	1.6
Rich	1	12	38	12	0.3	0.1	0.0
Summit	10	121	240	58	0.2	0.7	0.2
Weber	2	24	38	0	0.0	0.1	0.0
Regional total	144	1740	5580	5186	0.9	17.2	21.0
Central Region							
Juab	45	544	2954	2993	1.0	9.1	12.1
Salt Lake	8	97	265	46	0.2	0.8	0.2
Sanpete	23	278	1187	1021	0.9	3.7	4.1
Tooele	125	1511	6413	4907	0.8	19.8	19.9
Utah	91	1100	5201	2541	0.5	16.0	10.3
Wasatch	7	85	202	278	1.4	0.6	1.1
Regional total	299	3615	16222	11786	0.7	50.0	47.7
Southern Region							
Beaver	16	193	480	302	0.6	1.5	1.2
Garfield	1	12	101	0	0.0	0.3	0.0
Iron	14	169	518	464	0.9	1.6	1.9
Kane	2	24	101	58	0.6	0.3	0.2
Millard	36	435	1755	2158	1.2	5.4	8.7
Piute	12	145	505	336	0.7	1.6	1.4
Sevier	37	447	2386	1265	0.5	7.4	5.1
Washington	18	218	846	371	0.4	2.6	1.5
Wayne	1	12	25	0	0.0	0.1	0.0
Regional total	137	1655	6717	4954	0.7	20.7	20.0
Northeastern Region							
Daggett	2	24	50	116	2.3	0.2	0.5
Duchesne	7	85	240	58	0.2	0.7	0.2
Uintah	11	133	366	162	0.4	1.1	0.7
Regional total	20	242	656	336	0.5	2.0	1.4
Southeastern Region							
Carbon	10	121	732	406	0.5	2.3	1.6
Emery	13	157	303	348	1.2	0.9	1.4
Grand	11	133	404	336	0.8	1.2	1.4
San Juan	5	60	278	46	0.2	0.9	0.2
Regional total	39	471	1717	1136	0.7	5.3	4.6
Unknown	30	363	1527	1311	0.9	4.7	5.3
Statewide total*	541	6539	32417	24710	0.8	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 1958–59 to 2018–19.

Year	Total hunters	Total harvest	Hunter-days afield	Chukars / hunter-day	Chukars / hunter
1958–59	11124	19578	25100	0.8	1.8
1959–60	11154	8700	26364	0.3	0.8
1960–61	13252	21733	30610	0.7	1.6
1961–62	14046	20821	35675	0.6	1.5
1962–63	11638	33500	35010	1.0	2.9
1963–64	14532	42806	40824	1.1	3.0
1964–65	16090	42974	39971	1.1	2.7
1965–66	16431	35335	45067	0.8	2.2
1966–67	17133	61370	54448	1.1	3.6
1967–68	17485	48906	50671	1.0	2.8
1968–69	20744	73218	61402	1.2	3.5
1969–70	22529	80917	71674	1.1	3.6
1970–71	18013	56053	49911	1.1	3.1
1971–72	17917	61151	55378	1.1	3.4
1972–73	16685	36925	46502	0.8	2.2
1973–74	13888	48135	50677	1.0	3.5
1974–75	16412	44658	48856	0.9	2.7
1975–76	16156	41151	51083	0.8	2.6
1976–77	14171	43726	47143	0.9	3.1
1977–78	12691	34155	38873	0.9	2.7
1978–79	16291	65747	54239	1.2	4.0
1979–80	15210	51918	42254	1.2	3.4
1980–81	15100	51511	47778	1.1	3.4
1981–82	12907	44983	36662	1.2	3.5
1982–83	11326	24460	32691	0.8	2.2
1983–84	10418	29649	31904	0.9	2.9
1984–85	9846	20179	30715	0.7	2.1
1985–86	7930	20938	24346	0.9	2.6
1986–87	9397	25346	31672	0.8	2.7
1987–88	11276	32848	39099	0.8	2.9
1988–89	11237	32057	40088	0.8	2.9
1989–90	10910	27628	40384	0.7	2.5
1990–91	11195	26486	38463	0.7	2.4
1991–92	10577	24355	34010	0.7	2.3
1992–93	11125	28599	37463	0.8	2.6
1993–94	10128	18774	34147	0.6	1.9
1994–95	8455	18721	28389	0.7	2.2
1995–96	9097	20954	31140	0.7	2.3

Statewide chukar partridge harvest statistics, Utah 1958–59 to 2018–19 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Chukars / hunter-day	Chukars / hunter
1996–97	10197	26594	37116	0.7	2.6
1997–98	9665	23840	34711	0.7	2.5
1998–99	9283	36013	33082	1.1	3.9
1999–00	14388	64727	53842	1.2	4.5
2000–01	14056	36458	45096	0.8	2.6
2001–02	7338	22941	29032	0.8	3.1
2002–03	6944	25294	30351	0.8	3.6
2003–04	8118	37007	31696	1.2	4.6
2004–05	6265	32718	26421	1.2	5.2
2005–06	11565	71134	67373	1.1	6.2
2006–07	6245	41618	33175	1.3	6.7
2007–08	4971	26758	24291	1.1	5.4
2008–09	6627	22777	30867	0.7	3.4
2009–10	6562	27860	27858	1.0	4.2
2010–11	6272	32799	30766	1.1	5.2
2011–12	5572	27553	31431	0.9	4.9
2012–13	5448	25696	29068	0.9	4.7
2013–14	5527	25973	28437	0.9	4.7
2014–15	5678	23028	24447	0.9	4.1
2015–16	7256	40915	35264	1.2	5.6
2016–17	7940	52547	49900	1.1	6.6
2017–18	6884	33661	41803	0.8	4.9
2018–19	6539	24710	32417	0.8	3.8
Average (1958–2018)	11375	36124	38838	0.9	3.3
% change from previous year	-5	-27	-22	-5	-23
% change from average	-43	-32	-17	-16	13

**COTTONTAIL RABBIT**  
**(Desert & Mountain)**



CLARK BRONSON

Statewide trends of cottontail rabbit summer roadside counts, Utah 1967–2018.

Year	Miles driven	Total rabbits observed	Young / 100 adults	Rabbits / mile
1967	—	—	106	0.35
1968	—	—	96	0.41
1969	—	—	110	0.32
1970	—	—	102	0.50
1971	2702	1184	123	0.44
1972	2643	1140	99	0.43
1973	1968	361	86	0.18
1974	2402	700	105	0.29
1975	2850	635	132	0.22
1976	3068	1163	132	0.38
1977	2907	914	89	0.31
1978	2745	1303	112	0.47
1979	2486	1094	121	0.44
1980	1909	591	107	0.31
1981	2423	1234	116	0.51
1982	2102	1111	78	0.53
1983	1932	787	72	0.41
1984	1069	170	100	0.16
1985	1656	211	73	0.13
1986	1610	284	75	0.18
1987	1552	521	96	0.34
1988	1472	825	67	0.56
1989	872	408	64	0.47
1990	879	344	73	0.39
1991	558	94	64	0.17
1992	857	207	71	0.24
1993	750	84	35	0.11
1994	148	54	18	0.36
1995	444	87	114	0.20
1996	498	283	163	0.57
1997	521	127	98	0.24
1998	1401	351	88	0.25
1999	1639	442	79	0.27
2000*	1029	550	115	0.53
2010	1279	109	49	0.09
2011	997	119	53	0.12
2012	1243	248	51	0.14

\*Cottontail rabbit roadside counts were discontinued from 2001–2009.

Statewide trends of cottontail rabbit summer roadside counts, Utah 1967–2018 (continued).

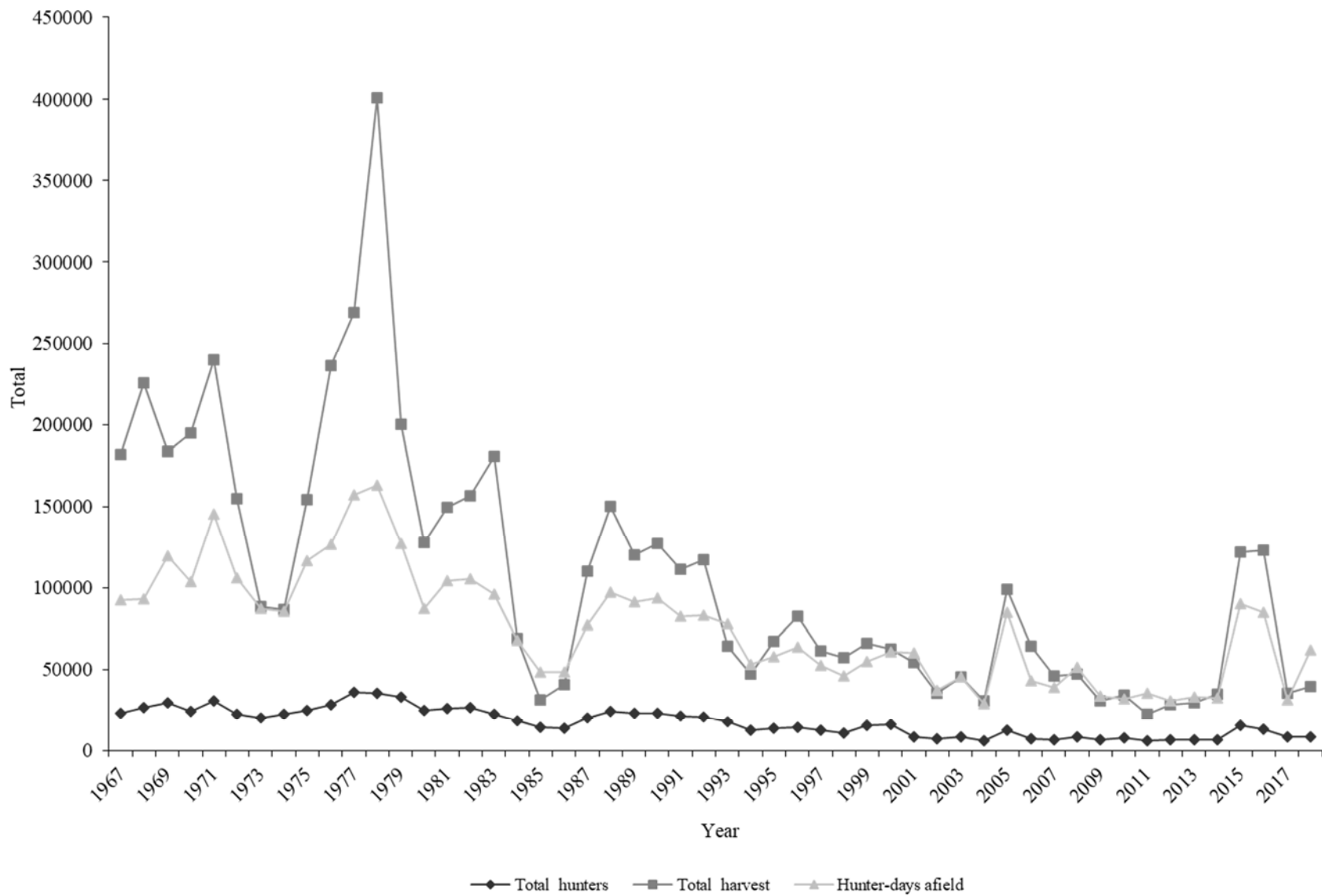
Year	Miles driven	Total rabbits observed	Young / 100 adults	Rabbits / mile
2013	1416	453	44	0.32
2014	1327	784	54	0.59
2015	1378	1381	55	1.00
2016	1494	1121	32	0.75
2017	1367	458	42	0.33
2018	1367	236	25	0.33
Average (1967–2017)	1166	430	71	0.35
% change from previous year	0	-48	-40	0
% change from average	17	-45	-65	-6

Cottontail rabbit summer roadside count summary, Utah 2018.

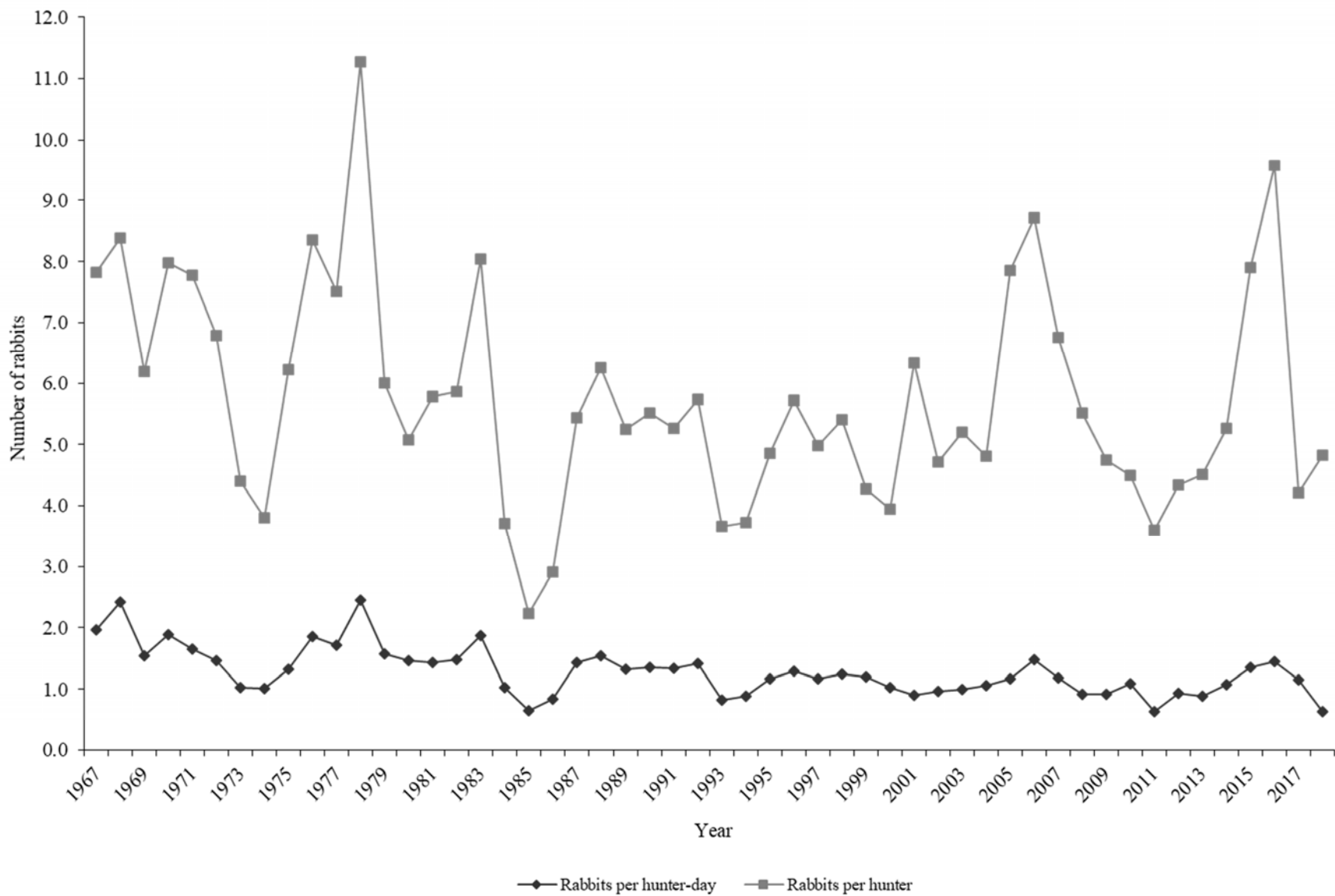
Region and county	Miles driven	Rabbits observed				Young / 100 adults	Rabbits / mile
		Adults	Young	Unclassified	Total		
<b>Northern Region</b>							
Box Elder	90	2	0	0	2	0.0	0.02
Cache	—	—	—	—	—	—	—
Davis	—	—	—	—	—	—	—
Morgan	—	—	—	—	—	—	—
Rich	90	8	3	0	11	37.5	0.12
Summit	—	—	—	—	—	—	—
Weber	—	—	—	—	—	—	—
<b>Regional total</b>	<b>180</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>13</b>	<b>30.0</b>	<b>0.07</b>
<b>Central Region</b>							
Juab	—	—	—	—	—	—	—
Salt Lake	—	—	—	—	—	—	—
Sanpete	90	3	0	0	3	0.0	0.03
Tooele	90	6	0	0	6	0.0	0.07
Utah	—	—	—	—	—	—	—
Wasatch	—	—	—	—	—	—	—
<b>Regional total</b>	<b>180</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0.0</b>	<b>0.05</b>
<b>Southern Region</b>							
Beaver	—	—	—	—	—	—	—
Garfield	93	15	5	2	22	33.3	0.24
Iron	90	20	5	2	27	25.0	0.30
Kane	—	—	—	—	—	—	—
Millard	90	5	1	0	6	20.0	0.07
Piute	—	—	—	—	—	—	—
Sevier	90	5	1	1	7	20.0	0.08
Washington	—	—	—	—	—	—	—
Wayne	90	8	7	0	15	87.5	0.17
<b>Regional total</b>	<b>453</b>	<b>53</b>	<b>19</b>	<b>5</b>	<b>77</b>	<b>35.8</b>	<b>0.17</b>
<b>Northeastern Region</b>							
Daggett	104	18	0	0	18	0.0	0.17
Duchesne	90	31	1	0	32	3.2	0.36
Uintah	90	20	5	0	25	25.0	0.28
<b>Regional total</b>	<b>284</b>	<b>69</b>	<b>6</b>	<b>0</b>	<b>75</b>	<b>8.7</b>	<b>0.26</b>
<b>Southeastern Region</b>							
Carbon	90	4	0	0	4	0.0	0.04
Emery	90	24	13	11	48	54.2	0.53
Grand	—	—	—	—	—	—	—
San Juan	90	6	3	0	9	50.0	0.10
<b>Regional total</b>	<b>270</b>	<b>34</b>	<b>16</b>	<b>11</b>	<b>61</b>	<b>47.1</b>	<b>0.23</b>
<b>Statewide total</b>	<b>1367</b>	<b>175</b>	<b>44</b>	<b>16</b>	<b>235</b>	<b>25.1</b>	<b>0.17</b>



Statewide trends of cottontail rabbit harvest statistics, Utah 1967–68 to 2018–19.



Statewide trends of cottontail rabbit hunter success, Utah 1967–68 to 2018–19.



Cottontail rabbit harvest statistics by region and county, Utah 2018–19.

Region and county	n	Hunters afield	Hunter-days afield	Rabbits bagged	Rabbits / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	69	846	3786	1999	0.5	6.1	5.0
Cache	26	319	2111	992	0.5	3.4	2.5
Davis	4	49	328	77	0.2	0.5	0.2
Morgan	6	74	346	325	0.9	0.6	0.8
Rich	12	147	455	341	0.7	0.7	0.9
Summit	15	184	546	263	0.5	0.9	0.7
Weber	4	49	200	46	0.2	0.3	0.1
Regional total	136	1668	7772	4043	0.5	12.5	10.2
Central Region							
Juab	35	429	1438	1162	0.8	2.3	2.9
Salt Lake	7	86	346	108	0.3	0.6	0.3
Sanpete	23	282	1638	899	0.5	2.6	2.3
Tooele	101	1238	7644	5237	0.7	12.3	13.2
Utah	88	1078	5224	3703	0.7	8.4	9.3
Wasatch	14	172	710	542	0.8	1.1	1.4
Regional total	268	3285	17000	11651	0.7	27.4	29.4
Southern Region							
Beaver	18	221	1274	1503	1.2	2.1	3.8
Garfield	7	86	346	186	0.5	0.6	0.5
Iron	23	282	1784	945	0.5	2.9	2.4
Kane	11	135	764	666	0.9	1.2	1.7
Millard	20	245	1238	1116	0.9	2.0	2.8
Piute	3	37	146	155	1.1	0.2	0.4
Sevier	21	257	1310	821	0.6	2.1	2.1
Washington	26	319	1929	1224	0.6	3.1	3.1
Wayne	14	172	946	1503	1.6	1.5	3.8
Regional total	143	1754	9737	8119	0.8	15.7	20.5
Northeastern Region							
Daggett	17	208	1074	1131	1.1	1.7	2.9
Duchesne	67	821	5387	3672	0.7	8.7	9.3
Uintah	58	711	5333	3920	0.7	8.6	9.9
Regional total	142	1740	11794	8723	0.7	19.0	22.0
Southeastern Region							
Carbon	30	368	3950	1875	0.5	6.4	4.7
Emery	26	319	1693	868	0.5	2.7	2.2
Grand	15	184	3203	1302	0.4	5.2	3.3
San Juan	15	184	5478	2014	0.4	8.8	5.1
Regional total	86	1055	14324	6059	0.4	23.1	15.3
Unknown	27	331	1329	1085	0.8	2.1	2.7
Statewide total*	671	8223	61955	39684	0.6	100.0	100.0

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

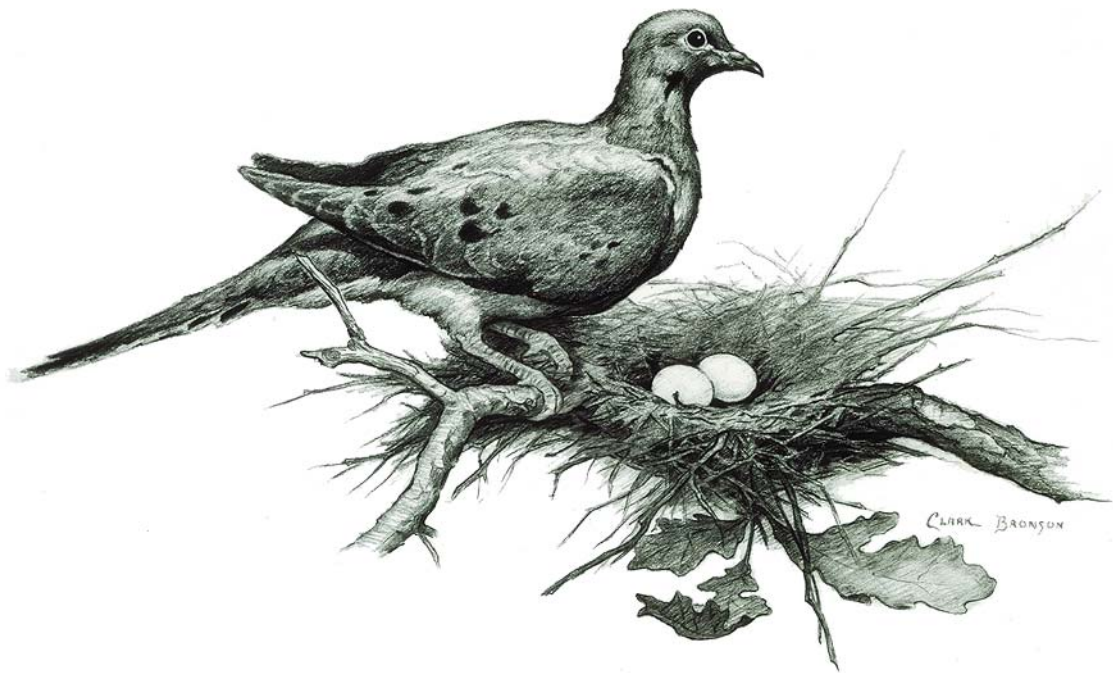
Statewide cottontail rabbit harvest statistics, Utah 1967–68 to 2018–19.

Year	Total hunters	Total harvest	Hunter-days afield	Rabbits / hunter-day	Rabbits / hunter
1967–68	23249	181812	92681	2.0	7.8
1968–69	26889	225450	93126	2.4	8.4
1969–70	29760	184034	119596	1.5	6.2
1970–71	24486	195248	103725	1.9	8.0
1971–72	30824	239511	145287	1.6	7.8
1972–73	22835	155102	105941	1.5	6.8
1973–74	20109	88603	87036	1.0	4.4
1974–75	22737	86506	85499	1.0	3.8
1975–76	24803	154182	116707	1.3	6.2
1976–77	28239	235952	126737	1.9	8.4
1977–78	35831	269263	157257	1.7	7.5
1978–79	35590	401071	163019	2.5	11.3
1979–80	33385	200223	127497	1.6	6.0
1980–81	25156	127652	87051	1.5	5.1
1981–82	25906	149765	104183	1.4	5.8
1982–83	26714	156696	105644	1.5	5.9
1983–84	22467	180767	96151	1.9	8.0
1984–85	18616	69186	67643	1.0	3.7
1985–86	14059	31397	48371	0.6	2.2
1986–87	13992	40636	48694	0.8	2.9
1987–88	20322	110411	77047	1.4	5.4
1988–89	24076	150386	97190	1.5	6.2
1989–90	22878	120075	91264	1.3	5.2
1990–91	23070	127389	93515	1.4	5.5
1991–92	21137	111407	82772	1.3	5.3
1992–93	20509	117454	83154	1.4	5.7
1993–94	17578	64400	77968	0.8	3.7
1994–95	12709	47322	53175	0.9	3.7
1995–96	13840	67295	58042	1.2	4.9
1996–97	14470	82803	63943	1.3	5.7
1997–98	12263	61109	52587	1.2	5.0
1998–99	10585	57137	45947	1.2	5.4
1999–00	15475	66142	54894	1.2	4.3
2000–01	15797	62330	60895	1.0	3.9
2001–02	8620	54506	60401	0.9	6.3
2002–03	7483	35320	36994	1.0	4.7
2003–04	8685	45210	45693	1.0	5.2
2004–05	6358	30586	28828	1.1	4.8
2005–06	12575	98827	85059	1.2	7.9

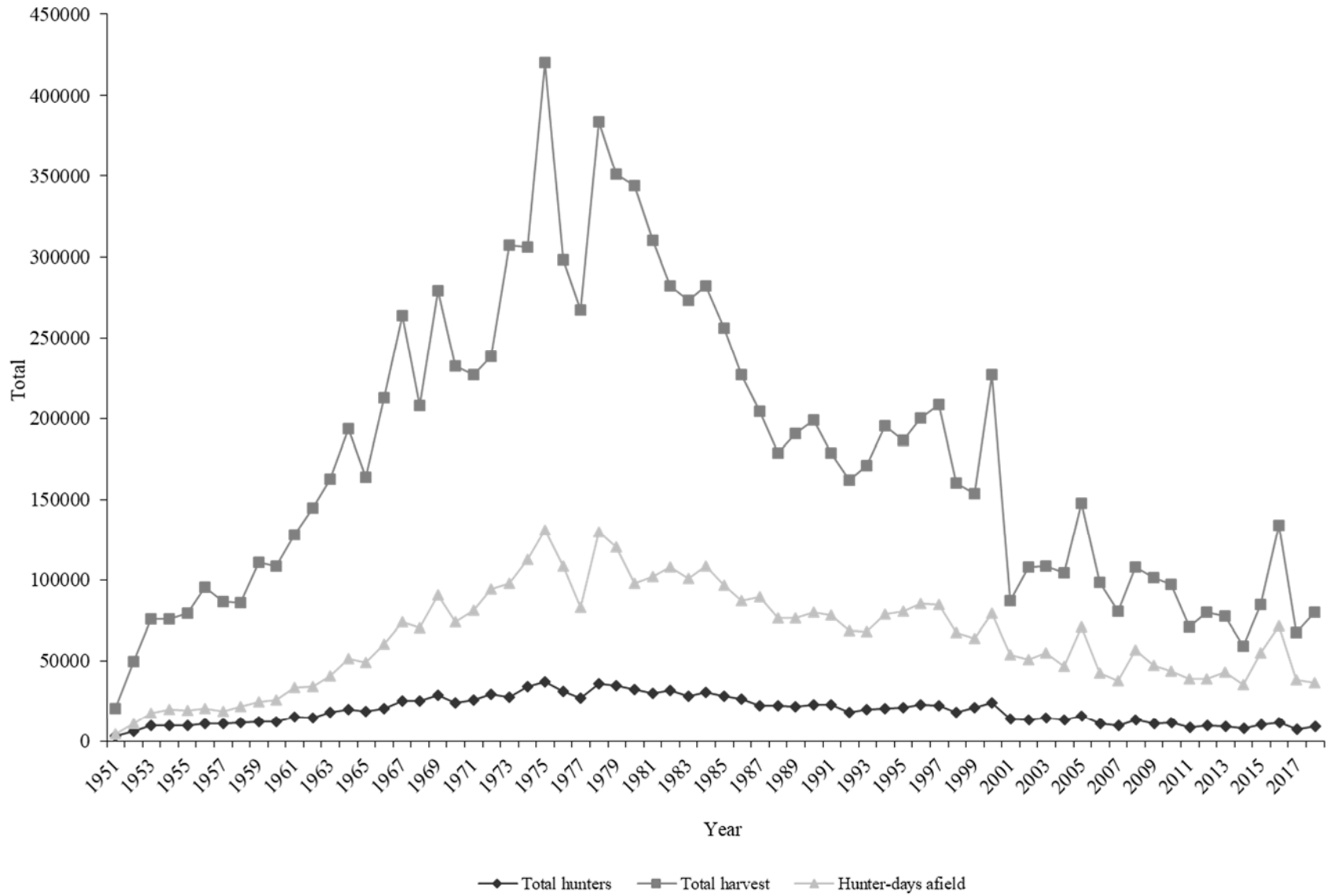
Statewide cottontail rabbit harvest statistics, Utah 1967–68 to 2018–19 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Rabbits / hunter-day	Rabbits / hunter
2006–07	7401	64476	43334	1.5	8.7
2007–08	6794	45902	38886	1.2	6.8
2008–09	8543	47077	51673	0.9	5.5
2009–10	6517	30946	34026	0.9	4.7
2010–11	7684	34532	31869	1.1	4.5
2011–12	6189	22293	35520	0.6	3.6
2012–13	6618	28665	30548	0.9	4.3
2013–14	6519	29353	33383	0.9	4.5
2014–15	6678	35120	32753	1.1	5.3
2015–16	15448	121981	90125	1.4	7.9
2016–17	12873	123302	84967	1.5	9.6
2017–18	8478	35650	31178	1.1	4.2
2018–19	8223	39684	61955	0.6	4.8
Average (1967–2018)	17347	106580	75604	1.3	5.8
% change from previous year	-3	11	99	-44	15
% change from average	-53	-63	-18	-50	-16

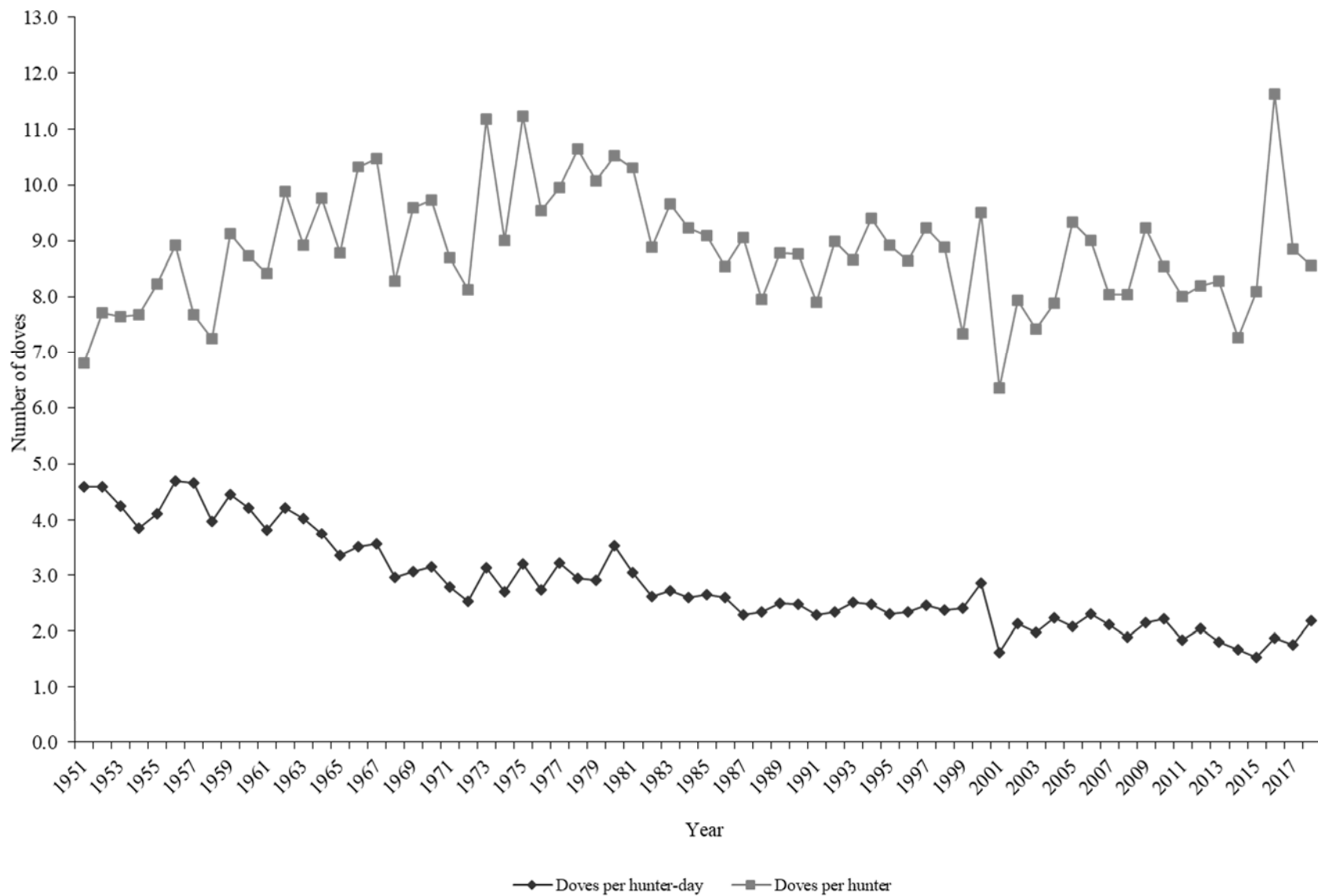
**DOVE**  
**(Mourning and White-winged)**



Statewide trends of dove (mourning and white-winged) harvest statistics, Utah 1951–2018.



Statewide trends of dove (mourning and white-winged) hunter success, Utah 1951–2018.





Dove (mourning and white-winged) harvest statistics by region and county, Utah 2018.

Region and county	n	Hunters afield	Hunter-days afield	Doves bagged	Doves / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	99	1321	4423	9391	2.1	12.1	11.8
Cache	67	894	3441	8156	2.4	9.4	10.2
Davis	32	427	1466	2500	1.7	4.0	3.1
Morgan	4	53	170	137	0.8	0.5	0.2
Rich	3	40	52	0	0.0	0.1	0.0
Summit	5	67	183	518	2.8	0.5	0.6
Weber	68	907	4148	7439	1.8	11.3	9.3
Regional total	278	3709	13883	28141	2.0	38.0	35.2
Central Region							
Juab	44	587	1217	3262	2.7	3.3	4.1
Salt Lake	8	107	327	640	2.0	0.9	0.8
Sanpete	28	374	981	1387	1.4	2.7	1.7
Tooele	69	920	3154	6997	2.2	8.6	8.8
Utah	146	1948	6359	12043	1.9	17.4	15.1
Wasatch	2	27	92	137	1.5	0.3	0.2
Regional total	297	3963	12130	24466	2.0	33.2	30.6
Southern Region							
Beaver	23	307	1374	3034	2.2	3.8	3.8
Garfield	1	13	13	30	2.3	0.0	0.0
Iron	21	280	864	3796	4.4	2.4	4.8
Kane	1	13	52	15	0.3	0.1	0.0
Millard	54	720	1871	6875	3.7	5.1	8.6
Piute	4	53	393	503	1.3	1.1	0.6
Sevier	25	334	1387	2150	1.6	3.8	2.7
Washington	31	414	1073	4512	4.2	2.9	5.7
Wayne	4	53	314	625	2.0	0.9	0.8
Regional total	164	2187	7341	21540	2.9	20.1	27.0
Northeastern Region							
Daggett	3	40	327	290	0.9	0.9	0.4
Duchesne	9	120	523	1098	2.1	1.4	1.4
Uintah	21	280	785	1738	2.2	2.1	2.2
Regional total	33	440	1635	3126	1.9	4.5	3.9
Southeastern Region							
Carbon	6	80	340	122	0.4	0.9	0.2
Emery	12	160	419	838	2.0	1.1	1.1
Grand	1	13	13	0	0.0	0.0	0.0
San Juan	5	67	393	351	0.9	1.1	0.4
Regional total	24	320	1165	1311	1.1	3.2	1.6
Unknown	16	213	419	1250	3.0	1.1	1.6
Statewide total*	700	9338	36573	79837	2.2	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 dove (mourning and white-winged) harvest statistics, Utah 1951–2018.

Year	Total hunters	Total harvest	Hunter-days afield	Doves / hunter-day	Doves / hunter
1951	3007	20448	4455	4.6	6.8
1952	6420	49498	10784	4.6	7.7
1953	9887	75636	17797	4.2	7.7
1954	9901	75941	19724	3.9	7.7
1955	9653	79444	19282	4.1	8.2
1956	10744	95729	20411	4.7	8.9
1957	11298	86769	18620	4.7	7.7
1958	11853	85934	21591	4.0	7.2
1959	12142	110856	24911	4.5	9.1
1960	12440	108477	25766	4.2	8.7
1961	15192	128001	33434	3.8	8.4
1962	14663	144826	34281	4.2	9.9
1963	18258	162769	40490	4.0	8.9
1964	19829	193538	51671	3.7	9.8
1965	18710	164087	48835	3.4	8.8
1966	20594	212696	60608	3.5	10.3
1967	25161	263949	74171	3.6	10.5
1968	25105	207922	70186	3.0	8.3
1969	29131	279311	90965	3.1	9.6
1970	23908	232469	73984	3.1	9.7
1971	26064	226645	81271	2.8	8.7
1972	29341	238354	94046	2.5	8.1
1973	27435	307062	97788	3.1	11.2
1974	34021	306076	112967	2.7	9.0
1975	37378	420308	131312	3.2	11.2
1976	31293	298505	108780	2.7	9.5
1977	26905	267487	83218	3.2	9.9
1978	35985	383696	130173	2.9	10.7
1979	34903	351161	120459	2.9	10.1
1980	32627	343851	97644	3.5	10.5
1981	30060	310068	101728	3.0	10.3
1982	31756	282188	107728	2.6	8.9
1983	28258	272979	100568	2.7	9.7
1984	30573	282307	108793	2.6	9.2
1985	28183	256045	96507	2.7	9.1
1986	26583	226985	87084	2.6	8.5
1987	22553	204030	89378	2.3	9.0

Statewide dove (mourning and white-winged) harvest statistics, Utah 1951–2018 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Doves / hunter-day	Doves / hunter
1988	22457	178469	76219	2.3	7.9
1989	21696	190328	76372	2.5	8.8
1990	22700	199007	80076	2.5	8.8
1991	22632	178853	78405	2.3	7.9
1992	18021	161902	68937	2.3	9.0
1993	19725	170834	68143	2.5	8.7
1994	20743	195089	78594	2.5	9.4
1995	20896	186336	80688	2.3	8.9
1996	23180	200167	85613	2.3	8.6
1997	22594	208331	84638	2.5	9.2
1998	18030	160014	67234	2.4	8.9
1999	20926	153487	63796	2.4	7.3
2000	23916	227148	79356	2.9	9.5
2001	13715	86998	53736	1.6	6.3
2002	13619	108051	50644	2.1	7.9
2003	14625	108521	55067	2.0	7.4
2004*	13210	104105	46606	2.2	7.9
2005	15849	147903	71138	2.1	9.3
2006	10904	98159	42453	2.3	9.0
2007	10017	80554	37971	2.1	8.0
2008	13430	107929	56898	1.9	8.0
2009	11023	101608	47205	2.2	9.2
2010	11372	97155	43761	2.2	8.5
2011	8891	71217	38689	1.8	8.0
2012	9784	80150	38985	2.1	8.2
2013	9367	77618	43076	1.8	8.3
2014	8113	58962	35477	1.7	7.3
2015	10451	84634	55290	1.5	8.1
2016	11511	134040	71686	1.9	11.6
2017	7617	67329	38240	1.8	8.8
2018	9338	79837	36573	2.2	8.5
Average (1951–2017)	19150	174423	64161	2.9	8.8
% change from previous year	23	19	-4	24	-3
% change from average	-51	-54	-43	-24	-3

\*Beginning in 2004, hunters were allowed to harvest mourning doves, white-winged doves, and collared-doves. Harvest numbers do not include collared-doves.

Dove harvest by species, Utah 2006–2018.

Year	Mourning dove		White-winged dove		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
2011	67401	69.4	2017	2.1	25910	26.7	1799	1.9	97127
2012	74028	63.8	4357	3.8	35803	30.9	1764	1.5	115952
2013	70967	53.8	4249	3.2	54309	41.2	2400	1.8	131925
2014	53521	60.5	3489	3.9	29455	33.3	1952	2.2	88417
2015	82244	44.8	608*	0.3	98826	53.9	1781	1.0	183459
2016	119145	62.2	2601	1.4	57402	30.0	12291	6.4	191439
2017	62933	65.5	1075	1.1	28757	29.9	3325	3.5	96090
2018	73377	66.0	2189	2.0	31398	28.2	4266	3.8	111230
Average (2006–2017)	81218	70.1	2920	2.6	32119	24.4	3492	2.8	120459
% change from previous year	17	1	104	76	9	-6	28	11	16
% change from average	-11	-6	-33	-34	-2	13	18	27	-8

\*Decrease in harvest was likely due to changes in survey methodology to help hunters better identify rare upland game species. Harvest in previous years was likely biased high due to misidentification.

# FOREST GROUSE (Dusky and Ruffed)

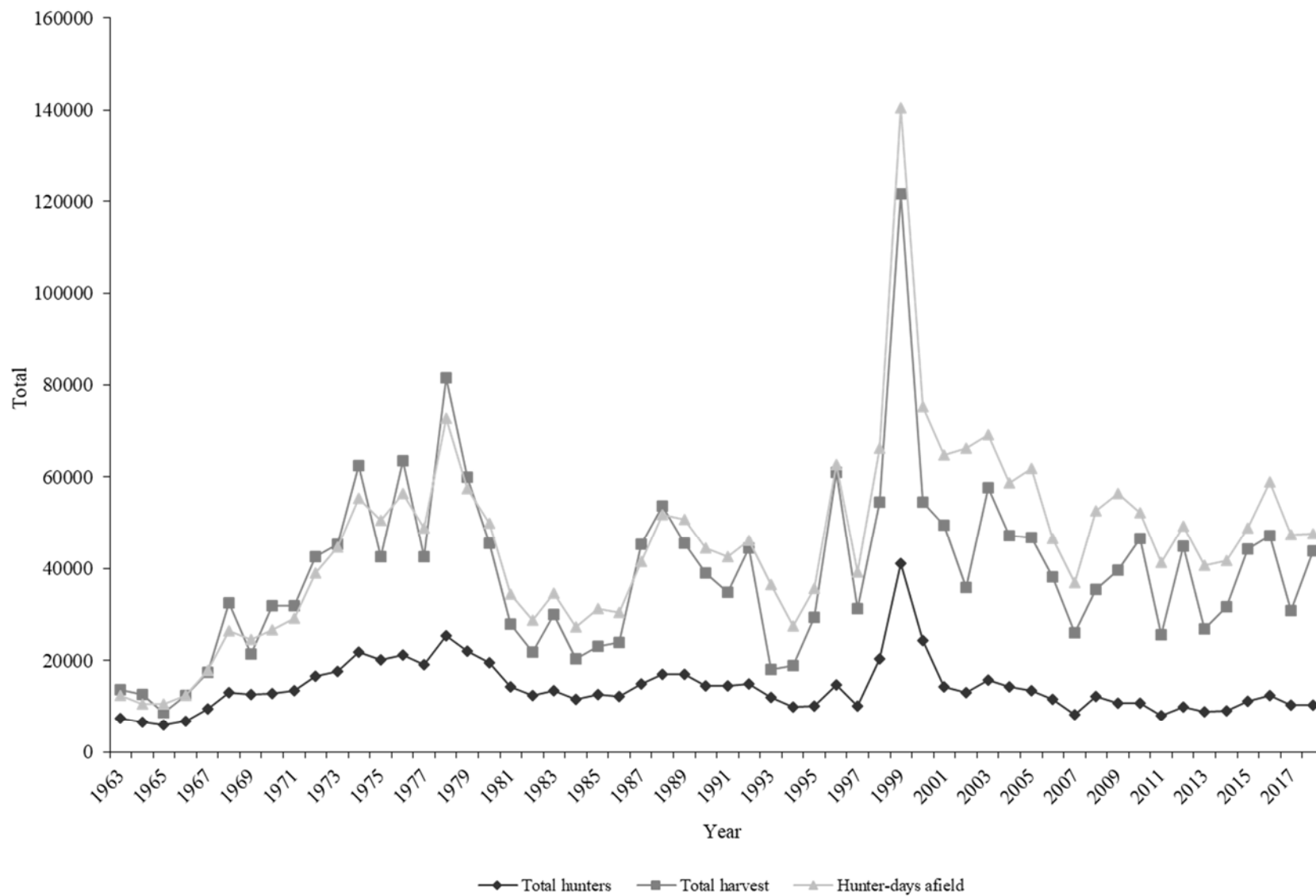


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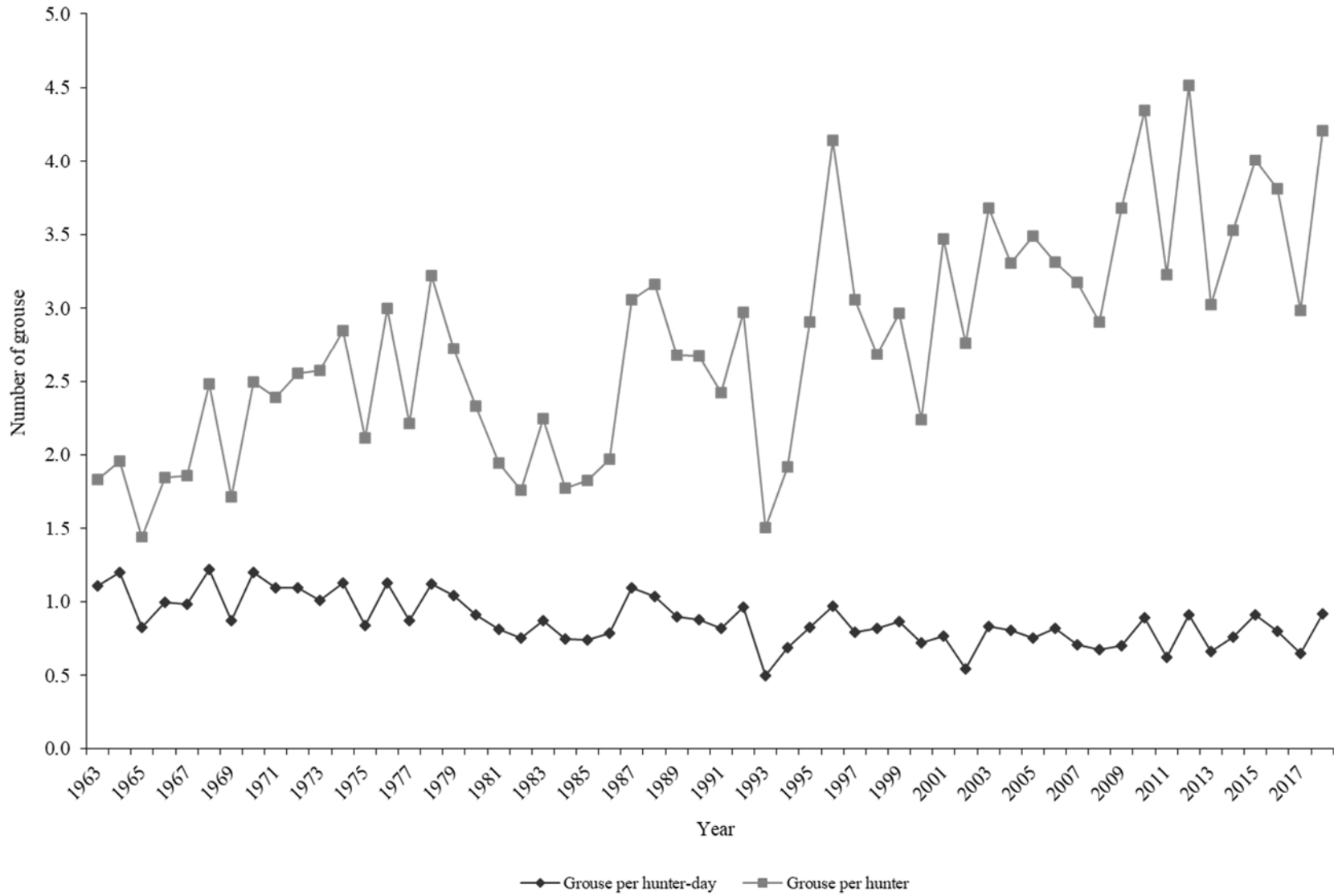


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Statewide trends of forest grouse harvest statistics, Utah 1963–2018.



Statewide trends of forest grouse hunter success, Utah 1963–2018.



Forest grouse (dusky and ruffed) harvest statistics by region and county, Utah 2018.

Region and county	n	Hunters afield	Hunter-days afield	Grouse bagged	Grouse / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	32	355	1040	592	0.6	2.2	1.4
Cache	203	2254	10068	12956	1.3	21.2	29.6
Davis	35	389	868	724	0.8	1.8	1.7
Morgan	25	278	992	592	0.6	2.1	1.4
Rich	25	278	1145	1027	0.9	2.4	2.3
Summit	92	1021	3808	3278	0.9	8.0	7.5
Weber	45	500	1670	1593	1.0	3.5	3.6
Regional total	457	5075	19591	20762	1.1	41.2	47.5
Central Region							
Juab	23	255	907	342	0.4	1.9	0.8
Salt Lake	21	233	1145	171	0.1	2.4	0.4
Sanpete	66	733	2663	2265	0.9	5.6	5.2
Tooele	23	255	907	355	0.4	1.9	0.8
Utah	109	1210	4418	4082	0.9	9.3	9.3
Wasatch	108	1199	4218	5122	1.2	8.9	11.7
Regional total	350	3885	14258	12337	0.9	30.0	28.2
Southern Region							
Beaver	27	300	945	948	1.0	2.0	2.2
Garfield	20	222	525	263	0.5	1.1	0.6
Iron	15	167	468	132	0.3	1.0	0.3
Kane	8	89	219	39	0.2	0.5	0.1
Millard	10	111	429	974	2.3	0.9	2.2
Piute	18	200	802	382	0.5	1.7	0.9
Sevier	61	677	2577	1540	0.6	5.4	3.5
Washington	2	22	48	53	1.1	0.1	0.1
Wayne	10	111	439	158	0.4	0.9	0.4
Regional total	171	1899	6452	4489	0.7	13.6	10.3
Northeastern Region							
Daggett	20	222	1040	1106	1.1	2.2	2.5
Duchesne	38	422	1651	1777	1.1	3.5	4.1
Uintah	54	600	1861	1435	0.8	3.9	3.3
Regional total	112	1244	4552	4318	0.9	9.6	9.9
Southeastern Region							
Carbon	21	233	544	461	0.8	1.1	1.1
Emery	14	155	544	276	0.5	1.1	0.6
Grand	11	122	420	105	0.3	0.9	0.2
San Juan	8	89	449	276	0.6	0.9	0.6
Regional total	54	599	1957	1118	0.6	4.1	2.6
Unknown	33	366	735	698	0.9	1.5	1.6
Statewide total*	936	10392	47544	43726	0.9	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 (dusky and ruffed) harvest statistics, Utah 1963–2018.

Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1963	7425	13608	12313	1.1	1.8
1964	6487	12691	10566	1.2	2.0
1965	6005	8669	10504	0.8	1.4
1966	6683	12321	12387	1.0	1.8
1967	9420	17526	17773	1.0	1.9
1968	13061	32414	26537	1.2	2.5
1969	12523	21498	24572	0.9	1.7
1970	12775	31898	26619	1.2	2.5
1971	13363	31901	29100	1.1	2.4
1972	16640	42518	38940	1.1	2.6
1973	17588	45232	44738	1.0	2.6
1974	21920	62439	55258	1.1	2.8
1975	20102	42461	50579	0.8	2.1
1976	21186	63436	56422	1.1	3.0
1977	19188	42477	48746	0.9	2.2
1978	25318	81558	72732	1.1	3.2
1979	21993	59851	57404	1.0	2.7
1980	19511	45522	49899	0.9	2.3
1981	14329	27894	34305	0.8	1.9
1982	12384	21778	28767	0.8	1.8
1983	13414	30088	34530	0.9	2.2
1984	11511	20396	27244	0.7	1.8
1985	12646	23097	31290	0.7	1.8
1986	12117	23869	30312	0.8	2.0
1987	14831	45326	41428	1.1	3.1
1988	16947	53562	51726	1.0	3.2
1989	16987	45487	50631	0.9	2.7
1990	14591	38922	44452	0.9	2.7
1991	14421	34897	42517	0.8	2.4
1992	15000	44518	46136	1.0	3.0
1993	12029	18147	36390	0.5	1.5
1994	9827	18862	27510	0.7	1.9
1995	10088	29312	35591	0.8	2.9
1996	14702	60922	62711	1.0	4.1
1997	10206	31198	39304	0.8	3.1
1998	20310	54439	66256	0.8	2.7
1999	41041	121708	140478	0.9	3.0
2000	24338	54456	75199	0.7	2.2

Statewide forest grouse (dusky and ruffed) harvest statistics, Utah 1963–2018 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
2001	14260	49412	64632	0.8	3.5
2002	13020	35949	66118	0.5	2.8
2003	15669	57633	69032	0.8	3.7
2004	14259	47130	58672	0.8	3.3
2005	13371	46631	61866	0.8	3.5
2006	11532	38201	46504	0.8	3.3
2007	8193	26012	36799	0.7	3.2
2008	12189	35408	52577	0.7	2.9
2009	10791	39702	56455	0.7	3.7
2010	10724	46598	52138	0.9	4.3
2011	7941	25607	41223	0.6	3.2
2012	9915	44787	49227	0.9	4.5
2013	8888	26889	40666	0.7	3.0
2014	8977	31688	41716	0.8	3.5
2015	11052	44255	48727	0.9	4.0
2016	12401	47200	58971	0.8	3.8
2017	10336	30851	47319	0.7	3.0
2018	10392	43726	47544	0.9	4.2
Average (1963–2017)	14050	39010	45215	0.9	2.7
% change from previous year	1	42	0	41	41
% change from average	-26	12	5	5	54

Forest grouse harvest by species, Utah 1963–2018.

Year	Ruffed grouse		Dusky 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 1963–2018 (continued).

Year	Ruffed grouse		Dusky 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
2011	11906	46.5	12399	48.4	1302	5.1	25607
2012	25680	57.3	16345	36.5	2765	6.2	44787
2013	13807	51.3	12171	45.3	913	3.4	26889
2014	17304	54.6	13367	42.2	1017	3.2	31688
2015	23825	53.8	18152	41.0	2278	5.1	44255
2016	22143	46.9	22667	48.0	2389	5.1	47200
2017	13152	42.6	16111	52.2	1587	5.1	30850
2018	22487	51.4	18826	43.1	2409	5.5	43722
Average (1963–2017)	15799	41.2	19836	52.0	3374	6.8	39010
% change from previous year	71	21	17	-18	52	7	42
% change from average	42	25	-5	-17	-29	-18	12

# GAMBEL'S QUAIL



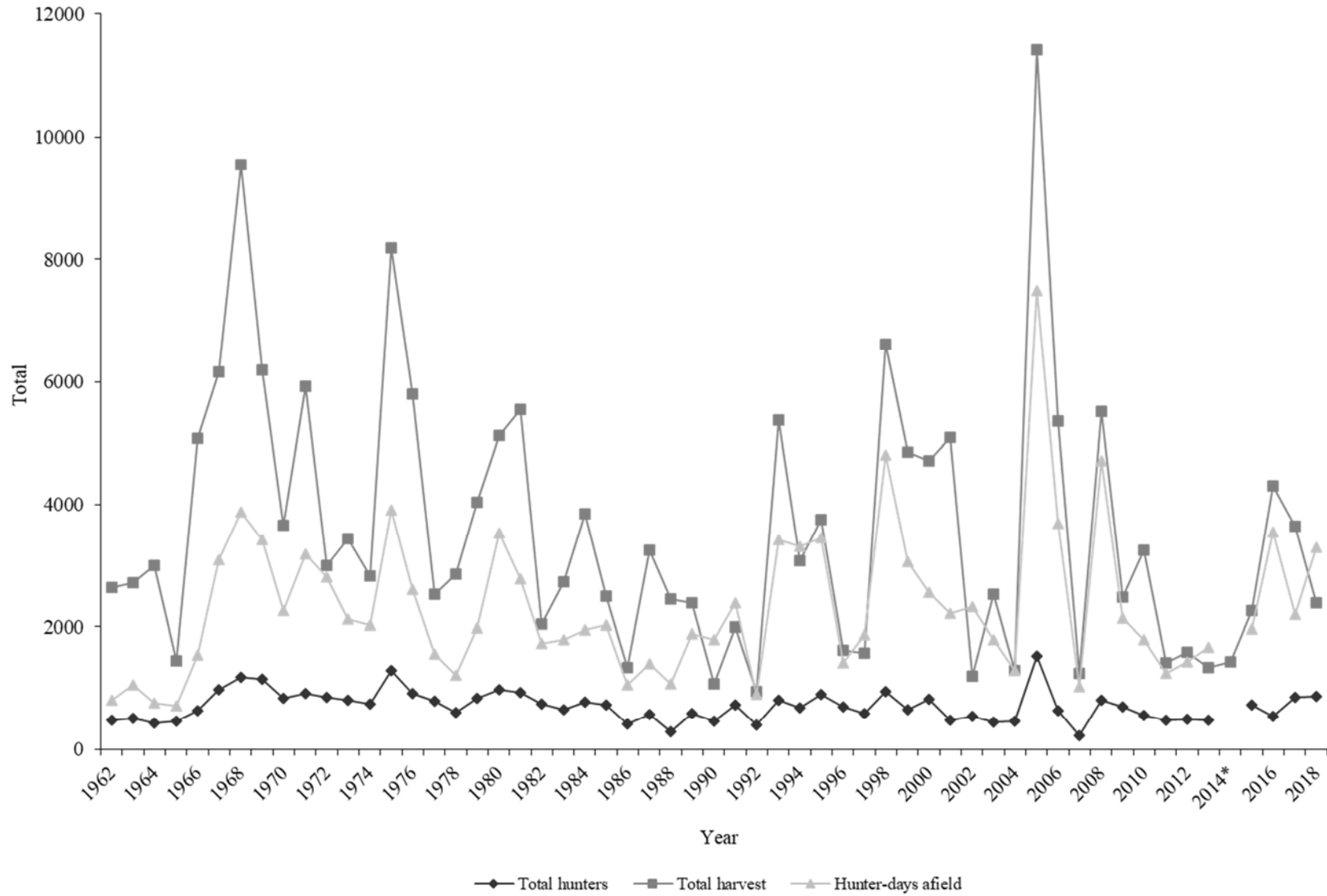
Gambel's quail waterhole trend counts, west slope of Beaver Dam Mountains, Washington County, Utah 1980–2018.

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
2011	41	19	60	216
2012	8	8	16	100
2013	23	8	31	288
2014	197	61	258	323
2015	284	68	352	418
2016	189	75	264	252

Gambel's quail waterhole trend counts, west slope of Beaver Dam Mountains, Washington County, Utah 1980–2018 (continued).

Year	Total young	Total adults	Total quail	Young / 100 adults
2017	402	109	511	369
2018	63	42	105	150
Average (1980–2017)	171	59	230	305
% change from previous year	-84	-61	-79	-59
% change from average	-63	-29	-54	-51

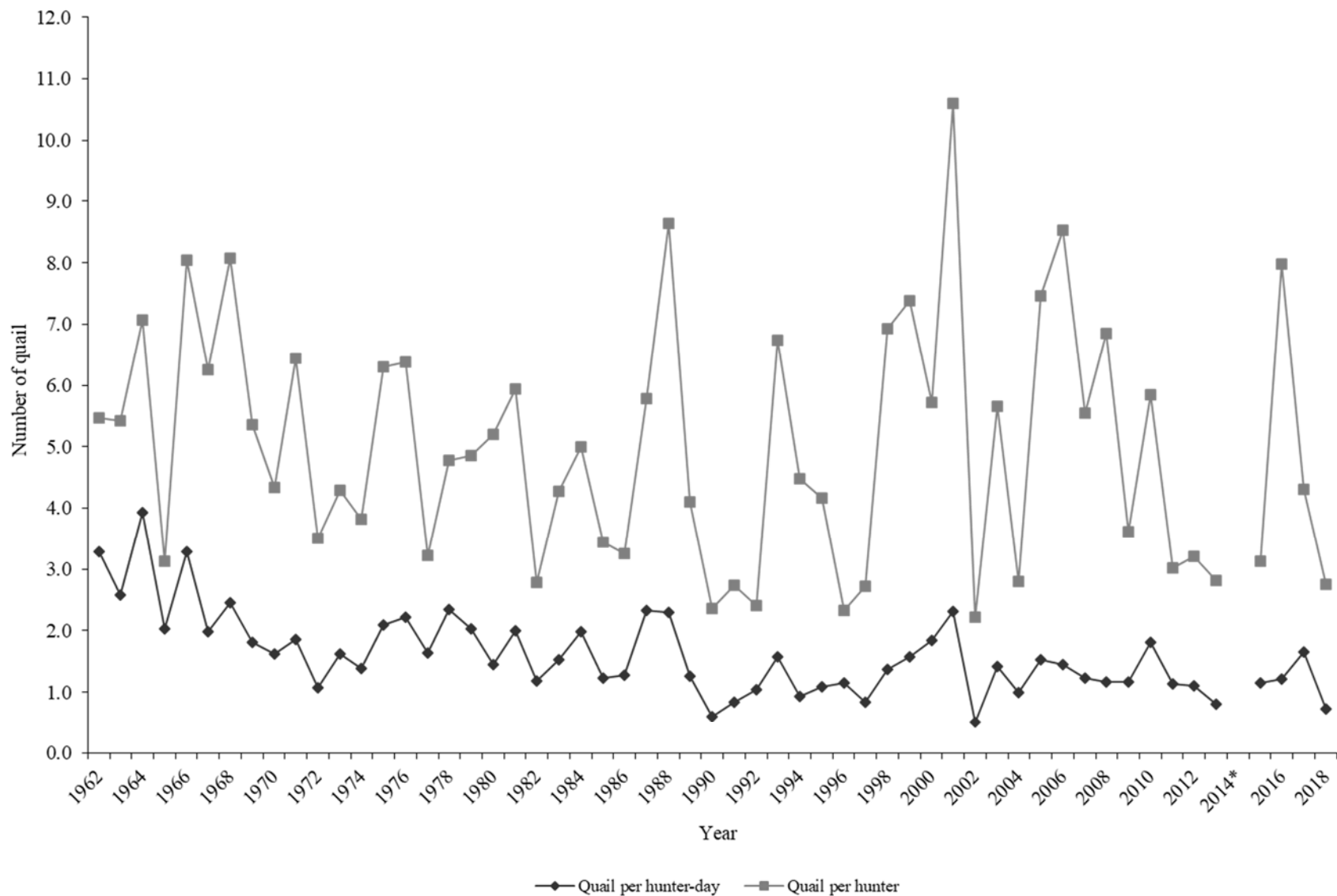
Statewide trends of Gambel’s quail harvest statistics, Utah 1962–2018.



\*No data in 2014 due to change in survey methodology.



Statewide trends of Gambel’s quail hunter success, Utah 1962–2018.



\*No data in 2014 due to a change in survey methodology.

Gambel's quail harvest statistics by region and county, Utah 2018.

Region and county	n	Hunters afield	Hunter-days afield	Quail bagged	Quail / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	0	0	—	—	—	0.0	0.0
Cache	0	0	—	—	—	0.0	0.0
Davis	0	0	—	—	—	0.0	0.0
Morgan	0	0	—	—	—	0.0	0.0
Rich	0	0	—	—	—	0.0	0.0
Summit	0	0	—	—	—	0.0	0.0
Weber	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Central Region							
Juab	0	0	—	—	—	0.0	0.0
Salt Lake	0	0	—	—	—	0.0	0.0
Sanpete	0	0	—	—	—	0.0	0.0
Tooele	0	0	—	—	—	0.0	0.0
Utah	0	0	—	—	—	0.0	0.0
Wasatch	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Southern Region							
Beaver	0	0	—	—	—	0.0	0.0
Garfield	0	0	—	—	—	0.0	0.0
Iron	3	34	89	0	0.0	2.7	0.0
Kane	3	34	518	0	0.0	15.7	0.0
Millard	0	0	—	—	—	0.0	0.0
Piute	0	0	—	—	—	0.0	0.0
Sevier	0	0	—	—	—	0.0	0.0
Washington	52	595	2175	2100	1.0	65.9	87.8
Wayne	3	34	51	0	0.0	1.5	0.0
Regional total	61	697	2833	2100	0.7	85.8	87.8
Northeastern Region							
Daggett	0	0	—	—	—	0.0	0.0
Duchesne	0	0	—	—	—	0.0	0.0
Uintah	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Southeastern Region							
Carbon	0	0	—	—	—	0.0	0.0
Emery	0	0	—	—	—	0.0	0.0
Grand	0	0	—	—	—	0.0	0.0
San Juan	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Unknown	15	172	468	292	0.6	14.2	12.2
Statewide total*	76	869	3300	2392	0.7	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 Gambel's quail harvest statistics, Utah 1962–2018.

Year	Total hunters	Total harvest	Hunter-days afield	Quail / hunter-day	Quail / hunter
1962	482	2636	804	3.3	5.5
1963	502	2722	1057	2.6	5.4
1964	425	3003	765	3.9	7.1
1965	463	1448	714	2.0	3.1
1966	631	5071	1540	3.3	8.0
1967	985	6157	3097	2.0	6.3
1968	1184	9551	3884	2.5	8.1
1969	1155	6188	3424	1.8	5.4
1970	842	3656	2259	1.6	4.3
1971	919	5922	3185	1.9	6.4
1972	860	3010	2807	1.1	3.5
1973	800	3435	2126	1.6	4.3
1974	741	2830	2033	1.4	3.8
1975	1299	8184	3913	2.1	6.3
1976	910	5802	2608	2.2	6.4
1977	784	2532	1553	1.6	3.2
1978	600	2862	1221	2.3	4.8
1979	830	4032	1979	2.0	4.9
1980	984	5124	3529	1.5	5.2
1981	934	5541	2781	2.0	5.9
1982	736	2053	1731	1.2	2.8
1983	642	2741	1792	1.5	4.3
1984	771	3857	1948	2.0	5.0
1985	729	2507	2036	1.2	3.4
1986	412	1339	1050	1.3	3.3
1987	564	3260	1397	2.3	5.8
1988	284	2454	1068	2.3	8.6
1989	581	2385	1887	1.3	4.1
1990	453	1070	1790	0.6	2.4
1991	731	2000	2383	0.8	2.7
1992	391	941	906	1.0	2.4
1993	798	5377	3420	1.6	6.7
1994	686	3076	3322	0.9	4.5
1995	900	3751	3460	1.1	4.2
1996	697	1625	1416	1.1	2.3
1997	582	1579	1870	0.8	2.7
1998	954	6607	4815	1.4	6.9
1999	656	4847	3070	1.6	7.4
2000	823	4711	2566	1.8	5.7
2001	481	5095	2211	2.3	10.6

Statewide Gambel's quail harvest statistics, Utah 1962–2018 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Quail / hunter-day	Quail / hunter
2002	539	1197	2335	0.5	2.2
2003	448	2537	1791	1.4	5.7
2004	463	1296	1296	1.0	2.8
2005	1530	11412	7496	1.5	7.5
2006	628	5353	3701	1.4	8.5
2007	225	1249	1019	1.2	5.6
2008	804	5509	4707	1.2	6.9
2009	688	2485	2141	1.2	3.6
2010	557	3255	1794	1.8	5.8
2011	468	1410	1250	1.1	3.0
2012	495	1586	1432	1.1	3.2
2013	477	1342	1672	0.8	2.8
2014	*	1426	*	*	*
2015	724	2263	1963	1.2	3.1
2016	539	4299	3551	1.2	8.0
2017	847	3645	2208	1.7	4.3
2018	869	2392	3300	0.7	2.8
Average (1951–2017)	705	3573	2341	1.6	5.0
% change from previous year	3	-34	49	-56	-36
% change from average	23	-33	41	-55	-45

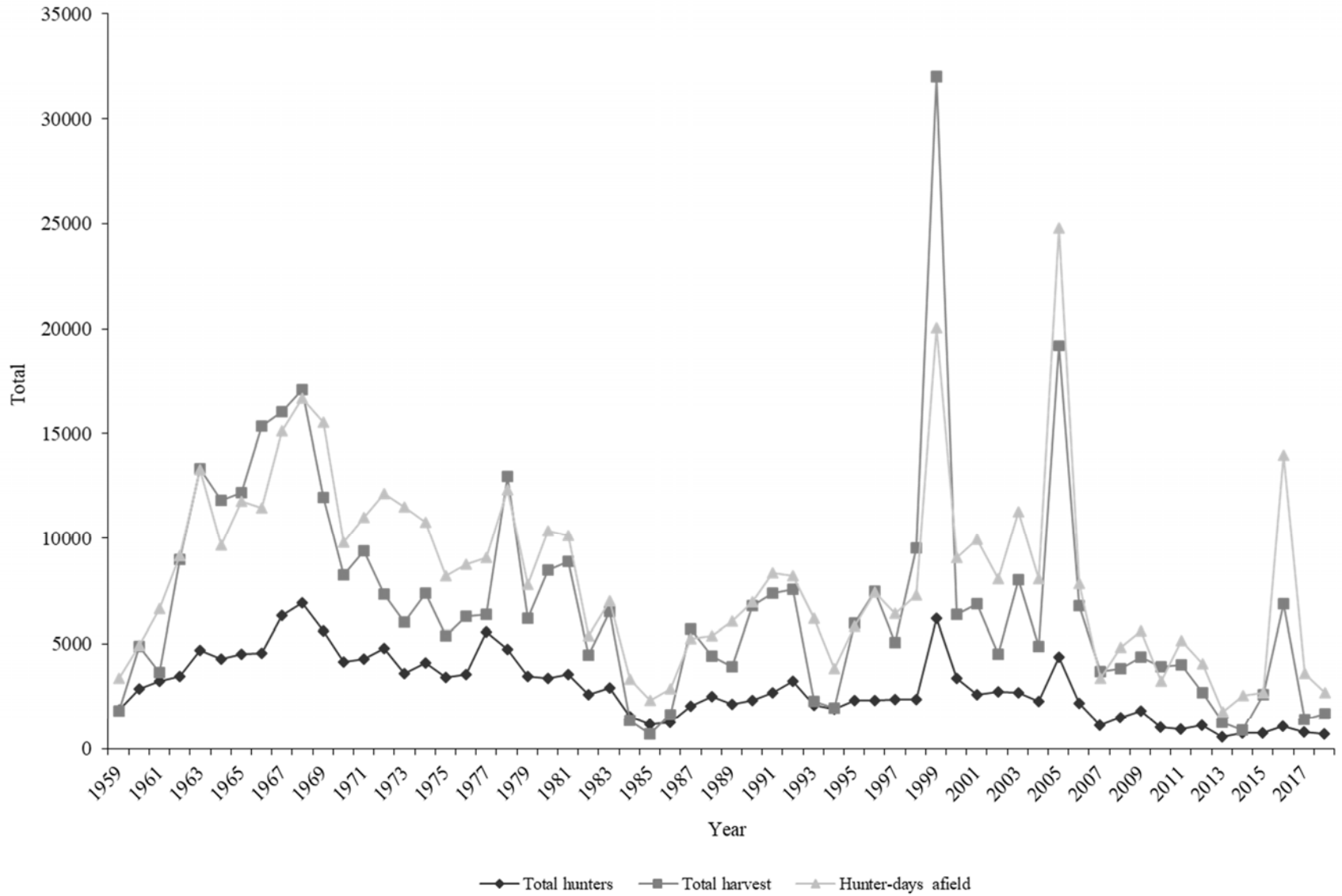
\*No data in 2014 due to a change in survey methodology.

## GRAY (HUNGARIAN) PARTRIDGE

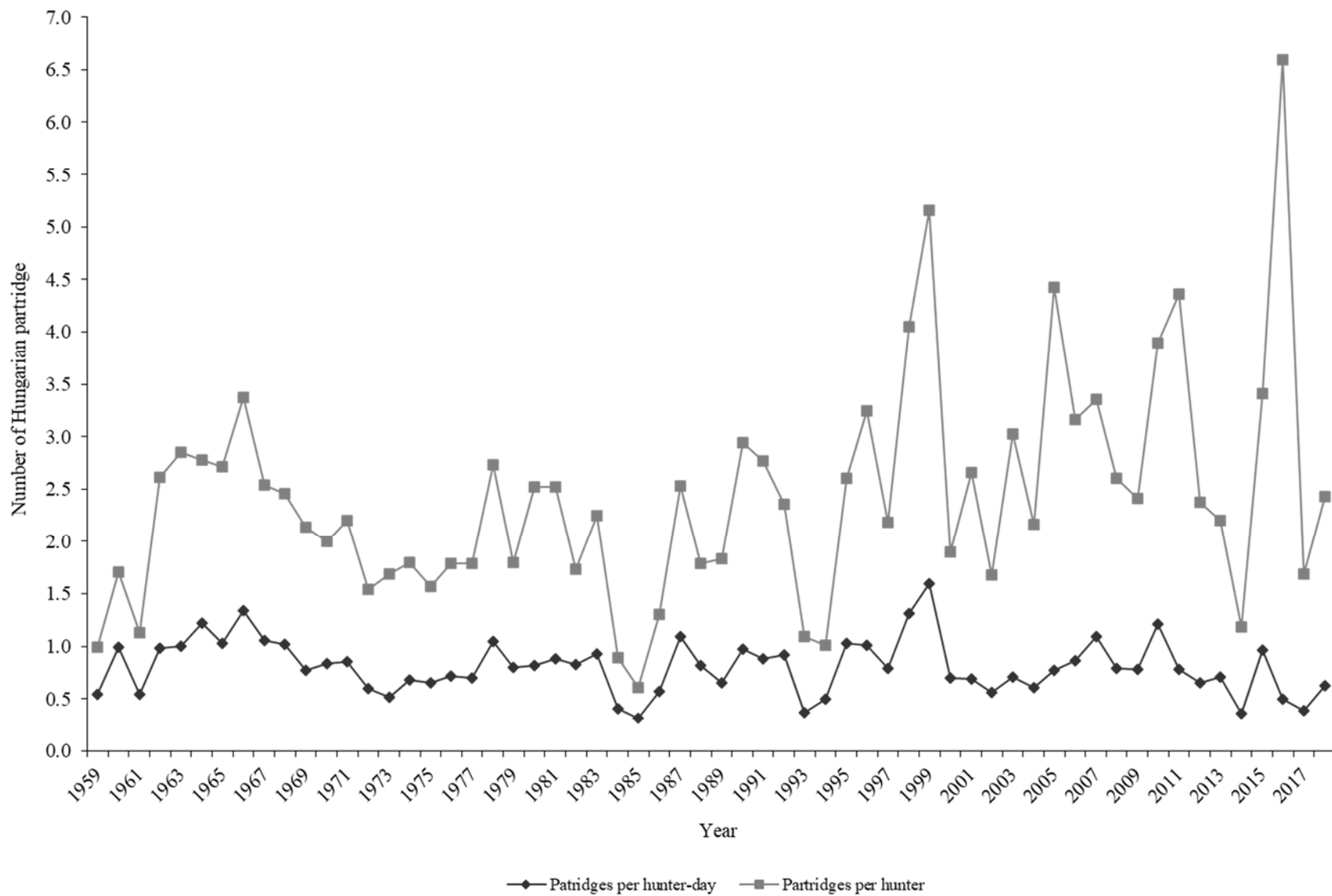


CLARK BRONSON

Statewide trends of gray (Hungarian) partridge harvest statistics, Utah 1959–60 to 2018–19.



Statewide trends of gray (Hungarian) partridge hunter success, Utah 1959–60 to 2018–19.



Gray (Hungarian) partridge harvest statistics by region and county, Utah 2018–19.

Region and county	n	Hunters afield	Hunter-days afield	Partridge bagged	Partridge / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	57	403	1451	1106	0.8	54.3	66.5
Cache	25	177	640	422	0.7	24.0	25.4
Davis	1	7	8	0	0.0	0.3	0.0
Morgan	1	7	15	17	1.1	0.6	1.0
Rich	1	7	93	0	0.0	3.5	0.0
Summit	0	0	—	—		0.0	0.0
Weber	2	14	39	0	0.0	1.4	0.0
Regional total	87	615	2246	1545	0.7	84.1	92.9
Central Region							
Juab	0	0	—	—	—	0.0	0.0
Salt Lake	0	0	—	—	—	0.0	0.0
Sanpete	1	7	15	0	0.0	0.6	0.0
Tooele	3	21	46	34	0.7	1.7	2.0
Utah	2	14	15	8	0.5	0.6	0.5
Wasatch	4	28	139	17	0.1	5.2	1.0
Regional total	10	70	215	59	0.3	8.1	3.6
Southern Region							
Beaver	0	0	—	—	—	0.0	0.0
Garfield	1	7	93	0	0.0	3.5	0.0
Iron	1	7	23	0	0.0	0.9	0.0
Kane	0	0	—	—	—	0.0	0.0
Millard	0	0	—	—	—	0.0	0.0
Piute	0	0	—	—	—	0.0	0.0
Sevier	1	7	39	42	1.1	1.4	2.5
Washington	1	7	15	8	0.5	0.6	0.5
Wayne	0	0	—	—	—	0.0	0.0
Regional total	4	28	170	50	0.3	6.4	3.0
Northeastern Region							
Daggett	0	0	—	—	—	0.0	0.0
Duchesne	1	7	23	0	0.0	0.9	0.0
Uintah	0	0	—	—	—	0.0	0.0
Regional total	1	7	23	0	0.0	0.9	0.0
Southeastern Region							
Carbon	0	0	—	—	—	0.0	0.0
Emery	0	0	—	—	—	0.0	0.0
Grand	0	0	—	—	—	0.0	0.0
San Juan	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Unknown	2	14	15	8	0.5	0.6	0.5
Statewide total*	97	685	2670	1663	0.6	100.0	100.0

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



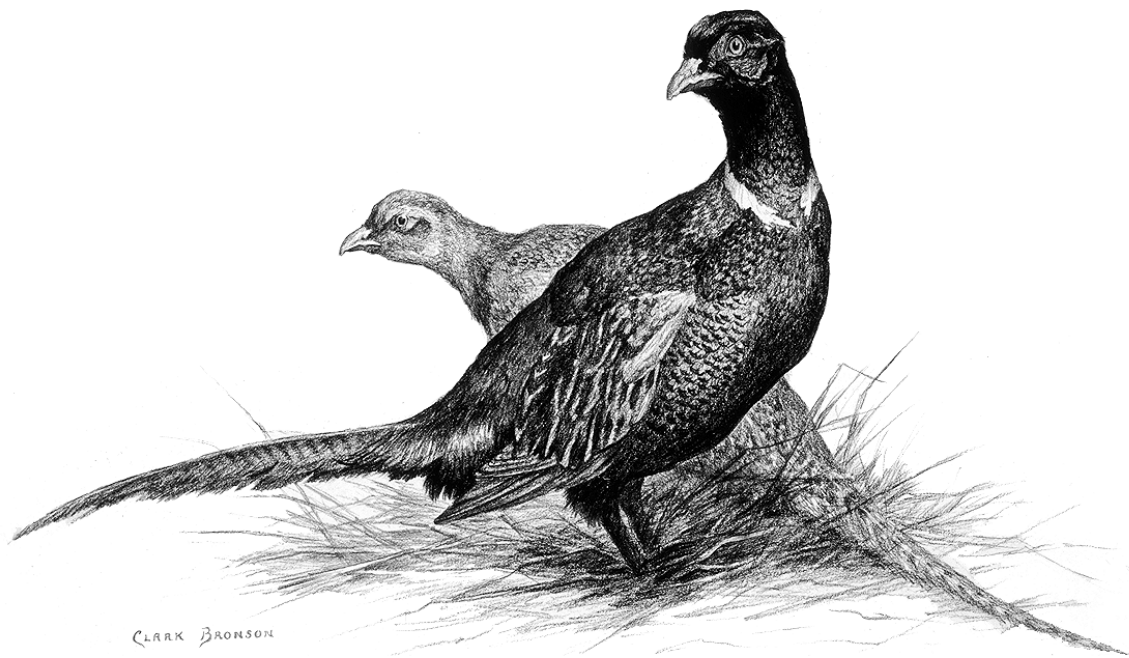
Statewide gray (Hungarian) partridge harvest statistics, Utah 1955–56 to 2018–19.

Year	Total hunters	Total harvest	Hunter-days afield	Partridge / hunter-day	Partridge / hunter
1955–56	—	—	—	—	0.4
1956–57	—	—	—	—	0.9
1957–58	—	—	—	—	0.5
1958–59	—	—	—	—	1.3
1959–60	1846	1820	3354	0.5	1.0
1960–61	2847	4877	4929	1.0	1.7
1961–62	3205	3648	6645	0.5	1.1
1962–63	3440	8970	9153	1.0	2.6
1963–64	4676	13343	13291	1.0	2.9
1964–65	4249	11812	9688	1.2	2.8
1965–66	4498	12183	11798	1.0	2.7
1966–67	4549	15348	11473	1.3	3.4
1967–68	6321	16049	15105	1.1	2.5
1968–69	6935	17089	16674	1.0	2.5
1969–70	5591	11966	15515	0.8	2.1
1970–71	4128	8236	9818	0.8	2.0
1971–72	4276	9407	11011	0.9	2.2
1972–73	4754	7335	12135	0.6	1.5
1973–74	3566	6014	11516	0.5	1.7
1974–75	4103	7389	10789	0.7	1.8
1975–76	3409	5358	8216	0.7	1.6
1976–77	3517	6287	8753	0.7	1.8
1977–78	5557	6360	9058	0.7	1.8
1978–79	4743	12969	12328	1.1	2.7
1979–80	3435	6200	7787	0.8	1.8
1980–81	3359	8466	10366	0.8	2.5
1981–82	3545	8916	10147	0.9	2.5
1982–83	2590	4475	5379	0.8	1.7
1983–84	2889	6506	6998	0.9	2.3
1984–85	1523	1360	3309	0.4	0.9
1985–86	1157	707	2314	0.3	0.6
1986–87	1257	1627	2843	0.6	1.3
1987–88	2010	5711	5246	1.1	2.5
1988–89	2471	4424	5392	0.8	1.8
1989–90	2136	3920	6035	0.7	1.8
1990–91	2305	6770	6976	1.0	2.9
1991–92	2662	7376	8367	0.9	2.8
1992–93	3198	7553	8192	0.9	2.4
1993–94	2090	2280	6194	0.4	1.1
1994–95	1899	1916	3832	0.5	1.0

Statewide gray (Hungarian) partridge harvest statistics, Utah 1955–56 to 2018–19 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Partridge / hunter-day	Partridge / hunter
1995–96	2294	5967	5812	1.0	2.6
1996–97	2299	7455	7409	1.0	3.2
1997–98	2328	5071	6443	0.8	2.2
1998–99	2350	9515	7281	1.3	4.1
1999–00	6211	32036	20063	1.6	5.2
2000–01	3349	6355	9096	0.7	1.9
2001–02	2596	6889	9933	0.7	2.7
2002–03	2694	4520	8052	0.6	1.7
2003–04	2656	8030	11283	0.7	3.0
2004–05	2253	4877	8087	0.6	2.2
2005–06	4345	19214	24783	0.8	4.4
2006–07	2148	6798	7850	0.9	3.2
2007–08	1099	3683	3358	1.1	3.4
2008–09	1475	3834	4825	0.8	2.6
2009–10	1817	4376	5618	0.8	2.4
2010–11	1006	3920	3236	1.2	3.9
2011–12	918	4001	5152	0.8	4.4
2012–13	1119	2659	4052	0.7	2.4
2013–14	574	1263	1775	0.7	2.2
2014–15	765	904	2526	0.4	1.2
2015–16	751	2558	2665	1.0	3.4
2016–17	1047	6902	13973	0.5	6.6
2017–18	815	1379	3602	0.4	1.7
2018–19	685	1663	2670	0.6	2.4
Average (1955–2018)	2872	6976	8170	0.8	2.4
% change from previous year	-16	21	-26	63	43
% change from average	-76	-76	-67	-23	0

# RING-NECKED PHEASANT



Statewide trends of ring-necked pheasant harvest statistics, Utah 1948–2018.



\*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 1948–2018.



\*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 2018.

Region and county	n	Hunters afield	Hunter-days afield	Pheasants bagged	Pheasants / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	273	3241	11483	7122	0.6	15.8	16.3
Cache	207	2458	10696	5818	0.5	14.7	13.3
Davis	133	1579	5689	2345	0.4	7.8	5.4
Morgan	2	24	176	75	0.4	0.2	0.2
Rich	1	12	12	25	2.1	0.0	0.1
Summit	7	83	153	63	0.4	0.2	0.1
Weber	186	2208	8228	4250	0.5	11.3	9.7
Regional total	809	9605	36437	19698	0.5	50.1	45.1
Central Region							
Juab	44	522	1269	903	0.7	1.7	2.1
Salt Lake	21	249	576	263	0.5	0.8	0.6
Sanpete	47	558	2080	878	0.4	2.9	2.0
Tooele	109	1294	3561	1480	0.4	4.9	3.4
Utah	314	3728	12083	6984	0.6	16.6	16.0
Wasatch	16	190	423	313	0.7	0.6	0.7
Regional total	551	6541	19992	10821	0.5	27.5	24.8
Southern Region							
Beaver	10	119	223	263	1.2	0.3	0.6
Garfield	2	24	35	63	1.8	0.0	0.1
Iron	30	356	764	1291	1.7	1.0	3.0
Kane	1	12	24	0	0.0	0.0	0.0
Millard	62	736	1610	1693	1.1	2.2	3.9
Piute	2	24	35	38	1.1	0.0	0.1
Sevier	77	914	2950	1956	0.7	4.1	4.5
Washington	10	119	341	288	0.8	0.5	0.7
Wayne	13	154	294	226	0.8	0.4	0.5
Regional total	207	2458	6276	5818	0.9	8.6	13.3
Northeastern Region							
Daggett	6	71	94	100	1.1	0.1	0.2
Duchesne	70	831	2645	1956	0.7	3.6	4.5
Uintah	58	689	2398	1480	0.6	3.3	3.4
Regional total	134	1591	5137	3536	0.7	7.1	8.1
Southeastern Region							
Carbon	19	226	929	690	0.7	1.3	1.6
Emery	47	558	2421	2269	0.9	3.3	5.2
Grand	3	36	94	38	0.4	0.1	0.1
San Juan	4	47	435	50	0.1	0.6	0.1
Regional total	73	867	3879	3047	0.8	5.3	7.0
Unknown	40	475	1046	752	0.7	1.4	1.7
Statewide total*	1565	18582	72768	43671	0.6	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 1948–2018.

Year	Total hunters	Total harvest	Hunter-days afield	Pheasants / hunter-day	Pheasants / hunter
1948	96534	280914	—	—	2.9
1949	88369	263340	189453	1.4	3.0
1950	92724	249428	235309	1.1	2.7
1951	76576	246575	171233	1.4	3.2
1952	78773	246559	185383	1.3	3.1
1953	82595	245307	176480	1.4	3.0
1954	82370	260289	201774	1.3	3.2
1955	78793	196195	178359	1.1	2.5
1956	77826	206239	182512	1.1	2.7
1957	83025	228319	170387	1.3	2.8
1958	88290	309015	220725	1.4	3.5
1959	86268	243276	202730	1.2	2.8
1960	81976	232812	177719	1.3	2.8
1961	83493	238439	243305	1.0	2.9
1962	86336	262448	209921	1.3	3.0
1963	87647	297873	198582	1.5	3.4
1964	88242	225775	196314	1.2	2.6
1965	77409	211876	186215	1.1	2.7
1966	78721	249814	209082	1.2	3.2
1967	85664	284000	257033	1.1	3.3
1968	90453	297752	267788	1.1	3.3
1969	90573	250241	277887	0.9	2.8
1970	78585	250503	244958	1.0	3.2
1971	87878	259189	294618	0.9	2.9
1972	84311	240573	327669	0.7	2.9
1973	75968	196012	278033	0.7	2.6
1974	85252	167408	282294	0.6	2.0
1975	77566	143783	234615	0.6	1.9
1976	74029	151476	214023	0.7	2.0
1977	67195	148168	191142	0.8	2.2
1978	83800	220398	257305	0.9	2.6
1979	87462	216700	266245	0.8	2.5
1980	84868	228442	249770	0.9	2.7
1981	83408	234217	265381	0.9	2.8
1982	85368	208437	280624	0.7	2.4
1983	77847	220074	265731	0.8	2.8
1984	76840	192190	258169	0.7	2.5
1985	69889	146807	233328	0.6	2.1

Statewide ring-necked pheasant harvest statistics, Utah 1948–2018 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Pheasants / hunter-day	Pheasants / hunter
1986	59987	114389	207346	0.6	1.9
1987	57118	119236	199470	0.6	2.1
1988	54514	97658	184180	0.5	1.8
1989	50382	80769	177364	0.5	1.6
1990	47025	78944	161634	0.5	1.7
1991	42813	72612	150096	0.5	1.7
1992	41640	85803	150244	0.6	2.1
1993	39640	63336	141399	0.4	1.6
1994	36705	68698	129872	0.5	1.9
1995	38391	71202	142755	0.5	1.9
1996	41854	83987	157755	0.5	2.0
1997	37622	78693	140135	0.6	2.1
1998	35130	77889	126792	0.6	2.2
1999	36211	77545	120502	0.6	2.1
2000	41074	60108	114226	0.5	1.5
2001	26468	47521	97413	0.5	1.8
2002	22149	40048	76178	0.5	1.8
2003	20773	46382	77603	0.6	2.2
2004	13457	32532	48147	0.7	2.4
2005	26864	82671	112532	0.7	3.1
2006	16521	44971	57371	0.8	2.7
2007	13764	32121	48285	0.7	2.3
2008	16936	34189	59449	0.6	2.0
2009	16798	35211	55795	0.6	2.1
2010	18103	40299	59747	0.7	2.2
2011	14188	40899	62150	0.7	2.9
2012	14315	29704	53835	0.6	2.1
2013	15838	38028	56139	0.7	2.4
2014	17074	41619	71345	0.6	2.4
2015	19855	49065	72065	0.7	2.5
2016	22299	47938	78891	0.6	2.1
2017	22062	60104	91346	0.7	2.7
2018	18582	43671	72768	0.6	2.4
Average (1948–2017)	58297	151672	171956	0.8	2.5
% change from previous year	-16	-27	-20	-9	-14
% change from average	-68	-71	-58	-27	-5

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

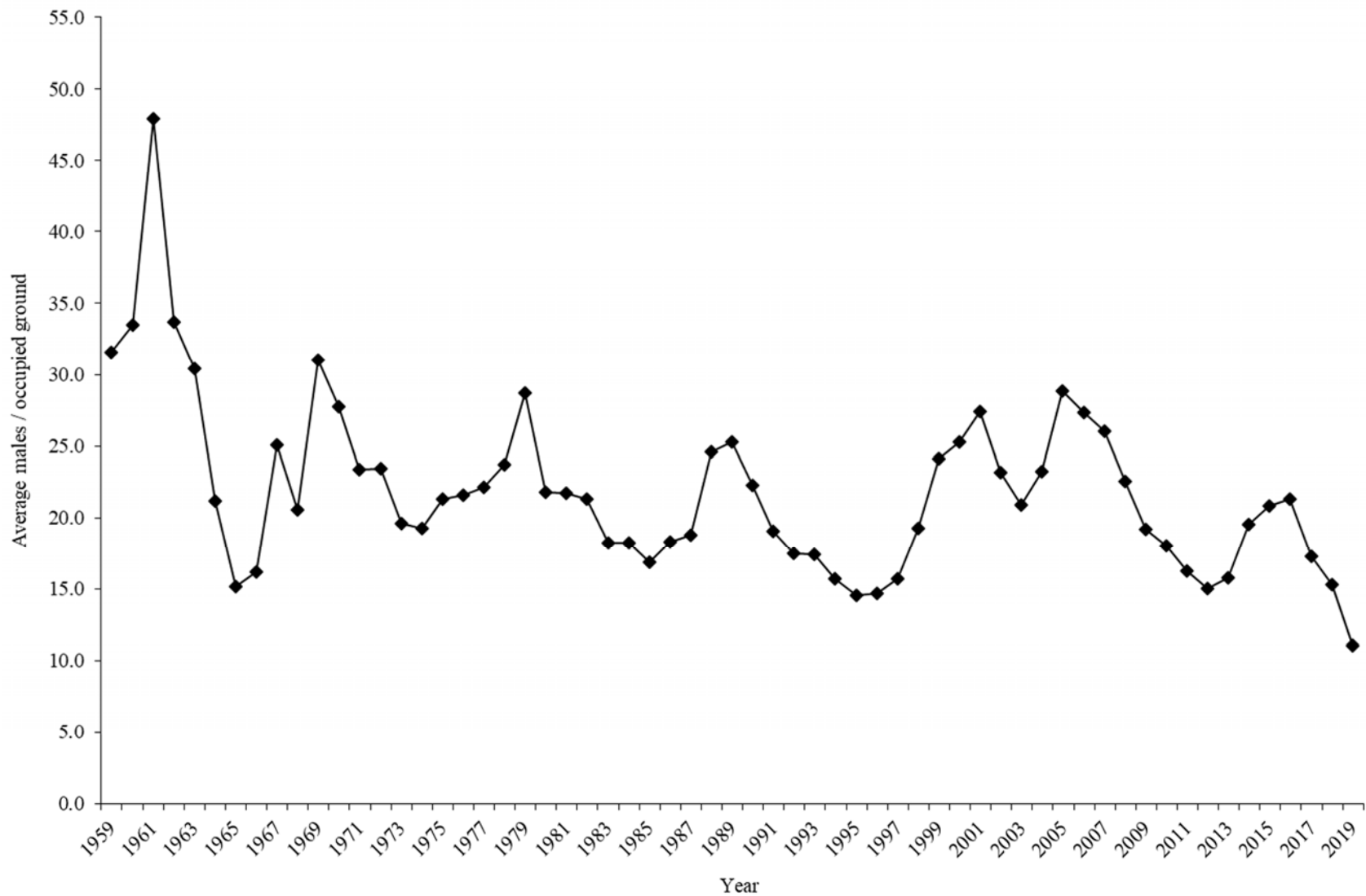


**SAGE-GROUSE**  
**(Greater and Gunnison)**



CLARA BRANSON

Statewide trends of average greater sage-grouse males per occupied strutting ground, Utah 1959–2019.



Greater sage-grouse strutting ground counts by county for the Northern Region, Utah 2010–2019.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Average (2010–2018)
<b>Box Elder</b>											
Number of strutting grounds visited	59	57	86	73	62	74	77	67	70	56	68
Number of strutting grounds occupied	41	35	44	42	44	52	44	43	49	29	42
Total male grouse counted	395	381	547	577	691	871	777	755	661	350	601
Average males / occupied ground	9.6	10.9	12.4	13.7	15.7	16.8	17.7	17.6	13.5	12.1	14.0
<b>Cache</b>											
Number of strutting grounds visited	4	3	4	0	1	4	4	3	3	1	3
Number of strutting grounds occupied	4	3	4	—	0	3	4	2	2	1	3
Total male grouse counted	86	33	45	—	—	77	75	61	58	10	56
Average males / occupied ground	21.5	11.0	11.3	—	—	25.7	18.8	30.5	29.0	10.0	19.7
<b>Morgan</b>											
Number of strutting grounds visited	7	5	7	5	7	7	7	3	4	1	5
Number of strutting grounds occupied	5	2	5	4	5	5	4	1	3	1	4
Total male grouse counted	68	28	26	25	41	44	68	9	11	2	32
Average males / occupied ground	13.6	14.0	5.2	6.3	8.2	8.8	17.0	9.0	3.7	2.0	8.8
<b>Rich</b>											
Number of strutting grounds visited	46	39	45	35	44	41	41	39	42	40	41
Number of strutting grounds occupied	43	28	32	25	30	28	30	27	30	30	30
Total male grouse counted	1524	676	553	401	745	913	697	529	562	380	698
Average males / occupied ground	35.4	24.1	17.3	16.0	24.8	32.6	23.2	19.6	18.7	12.7	22.5
<b>Summit</b>											
Number of strutting grounds visited	4	4	4	3	4	4	6	3	4	4	4
Number of strutting grounds occupied	4	4	4	3	4	4	5	3	4	3	4
Total male grouse counted	108	102	85	63	84	107	138	62	59	33	84
Average males / occupied ground	27.0	25.5	21.3	21.0	21.0	26.8	27.6	20.7	14.8	11.0	21.7
<b>Northern Region total</b>											
Number of strutting grounds visited	120	108	146	116	118	130	135	115	123	102	121
Number of strutting grounds occupied	97	72	89	74	83	92	87	76	88	64	82
Total male grouse counted	2181	1220	1256	1066	1561	2012	1755	1416	1351	775	1459
Average males / occupied ground	22.5	16.9	14.1	14.4	18.8	21.9	20.2	18.6	15.4	12.1	17.5

Greater sage-grouse strutting ground counts by county for the Central Region, Utah 2010–2019.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Average (2010–2018)
<b>Juab</b>											
Number of strutting grounds visited	4	3	4	4	4	4	4	3	4	4	4
Number of strutting grounds occupied	4	1	3	4	4	4	4	2	2	3	3
Total male grouse counted	16	7	16	28	29	38	31	9	27	26	23
Average males / occupied ground	4.0	7.0	5.3	7.0	7.3	9.5	7.8	4.5	13.5	8.7	7.5
<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	10	8	9	10	9	9	8	10	10	10	9
Number of strutting grounds occupied	9	6	6	5	5	5	5	6	7	6	6
Total male grouse counted	108	55	53	37	59	58	60	65	92	79	67
Average males / occupied ground	12.0	9.2	8.8	7.4	11.8	11.6	12.0	10.8	13.1	13.2	11.0
<b>Wasatch</b>											
Number of strutting grounds visited	2	3	4	4	4	4	4	4	4	4	4
Number of strutting grounds occupied	2	3	4	4	4	4	4	4	4	4	4
Total male grouse counted	76	85	73	77	116	126	140	81	93	63	93
Average males / occupied ground	38.0	28.3	18.3	19.3	29.0	31.5	35.0	20.3	23.3	15.8	25.9
<b>Central Region total</b>											
Number of strutting grounds visited	16	14	17	18	17	17	16	17	18	18	17
Number of strutting grounds occupied	15	10	13	13	13	13	13	12	13	13	13
Total male grouse counted	200	147	142	142	204	222	231	155	212	168	182
Average males / occupied ground	13.3	14.7	10.9	10.9	15.7	17.1	17.8	12.9	16.3	12.9	14.3

Greater sage-grouse strutting ground counts by county for the Southern Region, Utah 2010–2019.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Average (2010–2018)
<b>Beaver</b>											
Number of strutting grounds visited	7	7	7	8	6	6	6	8	8	8	7
Number of strutting grounds occupied	5	4	5	5	5	4	3	3	3	3	4
Total male grouse counted	48	41	56	50	74	69	72	53	43	33	54
Average males / occupied ground	9.6	10.3	11.2	10.0	14.8	17.3	24.0	17.7	14.3	11.0	14.0
<b>Garfield</b>											
Number of strutting grounds visited	22	22	22	27	28	28	29	30	29	29	27
Number of strutting grounds occupied	11	9	8	15	16	19	18	21	22	19	16
Total male grouse counted	173	186	253	285	376	454	429	522	454	259	339
Average males / occupied ground	15.7	20.7	31.6	19.0	23.5	23.9	23.8	24.9	20.6	13.6	21.7
<b>Iron</b>											
Number of strutting grounds visited	18	19	23	25	27	27	29	30	29	30	26
Number of strutting grounds occupied	17	13	17	19	20	24	21	25	22	20	20
Total male grouse counted	231	173	203	210	281	246	277	276	235	155	229
Average males / occupied ground	13.6	13.3	11.9	11.1	14.1	10.3	13.2	11.0	10.7	7.8	11.7
<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	0	1	1	1	1	1	1	1	1	1
Total male grouse counted	1	—	4	12	11	12	15	22	16	13	12
Average males / occupied ground	1.0	—	4.0	12.0	11.0	12.0	15.0	22.0	16.0	13.0	11.8
<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 2010–2019 (continued).

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Average (2010–2018)
<b>Piute</b>											
Number of strutting grounds visited	5	7	7	7	7	8	8	8	8	8	7
Number of strutting grounds occupied	5	5	6	6	6	7	7	7	7	7	6
Total male grouse counted	70	57	74	82	119	157	148	139	129	96	107
Average males / occupied ground	14.0	11.4	12.3	13.7	19.8	22.4	21.1	19.9	18.4	13.7	16.7
<b>Sevier</b>											
Number of strutting grounds visited	1	1	2	1	2	2	2	2	2	3	2
Number of strutting grounds occupied	1	0	2	1	2	1	2	1	1	1	1
Total male grouse counted	8	—	16	30	21	23	18	16	22	16	19
Average males / occupied ground	8.0	—	8.0	30.0	10.5	23.0	9.0	16.0	22.0	16.0	15.8
<b>Wayne</b>											
Number of strutting grounds visited	27	27	27	29	30	28	27	31	31	30	29
Number of strutting grounds occupied	21	19	17	20	21	19	19	23	17	14	19
Total male grouse counted	462	516	481	614	742	703	681	568	460	234	546
Average males / occupied ground	22.0	27.2	28.3	30.7	35.3	37.0	35.8	24.7	27.1	16.7	28.5
<b>Southern Region total</b>											
Number of strutting grounds visited	83	86	91	100	103	102	104	112	110	111	100
Number of strutting grounds occupied	61	50	56	67	71	75	71	81	73	65	67
Total male grouse counted	993	973	1087	1283	1624	1664	1640	1596	1359	806	1303
Average males / occupied ground	16.3	19.5	19.4	19.1	22.9	22.2	23.1	19.7	18.6	12.4	19.3

Greater sage-grouse strutting ground counts by county for the Northeastern Region, Utah 2010–2019.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Average (2010–2018)
<b>Daggett</b>											
Number of strutting grounds visited	12	12	12	12	13	12	13	13	14	12	13
Number of strutting grounds occupied	6	6	7	5	7	10	9	10	7	7	7
Total male grouse counted	68	44	52	48	93	148	201	145	70	28	90
Average males / occupied ground	11.3	7.3	7.4	9.6	13.3	14.8	22.3	14.5	10.0	4.0	11.5
<b>Duchesne</b>											
Number of strutting grounds visited	19	20	20	15	17	15	14	12	11	11	15
Number of strutting grounds occupied	7	7	8	9	12	12	12	9	11	10	10
Total male grouse counted	106	106	140	140	206	219	237	166	144	96	156
Average males / occupied ground	15.1	15.1	17.5	15.6	17.2	18.3	19.8	18.4	13.1	9.6	16.0
<b>Uintah</b>											
Number of strutting grounds visited	42	43	50	57	60	65	61	61	61	58	56
Number of strutting grounds occupied	20	18	29	38	43	50	48	46	40	25	36
Total male grouse counted	241	218	389	557	849	1085	1123	577	446	214	570
Average males / occupied ground	12.1	12.1	13.4	14.7	19.7	21.7	23.4	12.5	11.2	8.6	14.9
<b>Wasatch</b>											
Number of strutting grounds visited	3	2	3	2	3	5	5	2	3	1	3
Number of strutting grounds occupied	0	1	3	2	3	5	3	1	2	1	2
Total male grouse counted	—	10	15	18	39	45	42	19	23	23	26
Average males / occupied ground	—	10.0	5.0	9.0	13.0	9.0	14.0	19.0	11.5	23.0	12.6
<b>Northeastern Region total</b>											
Number of strutting grounds visited	76	77	85	86	93	97	93	88	89	82	87
Number of strutting grounds occupied	33	32	47	54	65	77	72	66	60	43	55
Total male grouse counted	415	378	596	763	1187	1497	1603	907	683	361	839
Average males / occupied ground	12.6	11.8	12.7	14.1	18.3	19.4	22.3	13.7	11.4	8.4	14.5

Greater sage-grouse strutting ground counts by county for the Southeastern Region, Utah 2010–2019.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Average (2010–2018)
<b>Carbon</b>											
Number of strutting grounds visited	18	21	19	18	18	21	19	20	19	17	19
Number of strutting grounds occupied	11	11	9	10	10	15	15	14	13	12	12
Total male grouse counted	119	115	118	139	156	260	299	248	198	106	176
Average males / occupied ground	10.8	10.5	13.1	13.9	15.6	17.3	19.9	17.7	15.2	8.8	14.3
<b>Emery</b>											
Number of strutting grounds visited	3	3	2	3	2	3	3	3	3	3	3
Number of strutting grounds occupied	1	0	2	1	1	2	2	3	3	3	2
Total male grouse counted	11	—	12	15	22	44	22	24	31	10	21
Average males / occupied ground	11.0	—	6.0	15.0	22.0	22.0	11.0	8.0	10.3	3.3	12.1
<b>Sevier</b>											
Number of strutting grounds visited	1	2	2	2	2	2	2	2	2	2	2
Number of strutting grounds occupied	1	2	1	1	2	2	2	2	2	2	2
Total male grouse counted	37	29	27	33	26	27	72	49	22	13	34
Average males / occupied ground	37.0	14.5	27.0	33.0	13.0	13.5	36.0	24.5	11.0	6.5	21.6
<b>Utah</b>											
Number of strutting grounds visited	1	3	3	3	3	4	4	4	3	3	3
Number of strutting grounds occupied	1	3	2	2	3	2	2	2	2	3	2
Total male grouse counted	3	60	53	47	71	57	43	28	27	29	42
Average males / occupied ground	3.0	20.0	26.5	23.5	23.7	28.5	21.5	14.0	13.5	9.7	18.4
<b>Southeastern Region total</b>											
Number of strutting grounds visited	23	29	26	26	25	30	28	29	27	25	27
Number of strutting grounds occupied	14	16	14	14	16	21	21	21	20	20	18
Total male grouse counted	170	204	210	234	275	388	436	349	278	158	270
Average males / occupied ground	12.1	12.8	15.0	16.7	17.2	18.5	20.8	16.6	13.9	7.9	15.1



Statewide trends of greater sage-grouse strutting ground counts, Utah 1959–2019.

Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
1959	14	14	442	31.6
1960	16	16	536	33.5
1961	13	13	623	47.9
1962	13	13	438	33.7
1963	19	19	578	30.4
1964	14	14	296	21.1
1965	15	15	227	15.1
1966	20	19	307	16.2
1967	45	39	978	25.1
1968	63	55	1131	20.6
1969	82	76	2356	31.0
1970	98	92	2555	27.8
1971	119	98	2289	23.4
1972	122	104	2434	23.4
1973	109	89	1745	19.6
1974	145	122	2345	19.2
1975	125	102	2176	21.3
1976	128	112	2420	21.6
1977	157	135	2991	22.2
1978	135	110	2611	23.7
1979	124	96	2757	28.7
1980	111	83	1811	21.8
1981	168	124	2695	21.7
1982	113	92	1958	21.3
1983	130	103	1879	18.2
1984	57	40	728	18.2
1985	133	99	1672	16.9
1986	113	92	1685	18.3
1987	115	94	1765	18.8
1988	175	102	2506	24.6
1989	138	104	2630	25.3
1990	152	118	2626	22.3
1991	136	122	2320	19.0
1992	118	99	1728	17.5
1993	84	68	1182	17.4
1994	114	84	1318	15.7
1995	91	65	945	14.5
1996	142	96	1410	14.7
1997	166	108	1693	15.7
1998	160	109	2101	19.3
1999	172	117	2821	24.1

Statewide trends of greater sage-grouse strutting ground counts, Utah 1959–2019 (continued).

Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
2000	183	138	3489	25.3
2001	171	120	3285	27.4
2002	225	138	3196	23.2
2003	226	159	3327	20.9
2004	243	183	4244	23.2
2005	243	185	5337	28.8
2006	280	218	5965	27.4
2007	302	224	5833	26.0
2008	308	210	4732	22.5
2009	312	210	4030	19.2
2010	318	220	3959	18.0
2011	314	180	2922	16.2
2012	365	219	3291	15.0
2013	345	221	3488	15.8
2014	356	248	4851	19.6
2015	376	278	5783	20.8
2016	378	266	5672	21.3
2017	362	256	4423	17.3
2018	367	254	3883	15.3
2019	338	205	2268	11.1
Average (1959–2018)	164.0	120.0	2523.6	22.1

Statewide trends of average Gunnison sage-grouse males per occupied strutting ground, Utah 1959–2019.



Statewide trends of Gunnison sage-grouse strutting ground counts, Utah 1968–2019.

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 1968–2019 (continued).

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
2011	4	2	21	10.5
2012	4	2	21	10.5
2013	4	2	15	7.5
2014	4	2	15	7.5
2015	4	3	12	4.0
2016	4	2	9	4.5
2017	4	2	9	4.5
2018	4	1	7	7.0
2019	3	1	4	4.0
Average (1959–2018)	4.5	3.5	50.6	13.2

Greater sage-grouse wing barrel production counts, Blue/Diamond Mtn, Utah 1999–2018.

Year	Total chicks	Total females	Total males	Nest success rate (%)	Chicks / hen
2000	27	30	12	40.0	0.9
2001	29	19	11	47.4	1.5
2002	8	11	4	45.5	0.7
2003	33	9	16	66.7	3.7
2004	34	12	11	58.3	2.8
2005	36	16	14	56.3	2.3
2006	29	13	8	53.8	2.2
2007			No data		
2008	13	14	8	57.1	0.9
2009	14	16	3	56.3	0.9
2010	14	15	5	73.3	0.9
2011	27	14	1	71.4	1.9
2012	41	14	8	71.4	2.9
2013	26	16	12	62.5	1.6
2014	38	24	18	83.3	1.6
2015	57	35	22	57.1	1.6
2016	10	32	11	46.9	0.3
2017	18	17	10	52.9	1.1
2018	2	11	5	45.5	0.2
Average (1980–2017)	27	18	10	59	1.6
% change from previous year	-89	-35	-50	-14	-83
% change from average	-93	-39	-51	-23	-89

Greater sage-grouse wing barrel production counts, Parker Mtn, Utah 1999–2018.

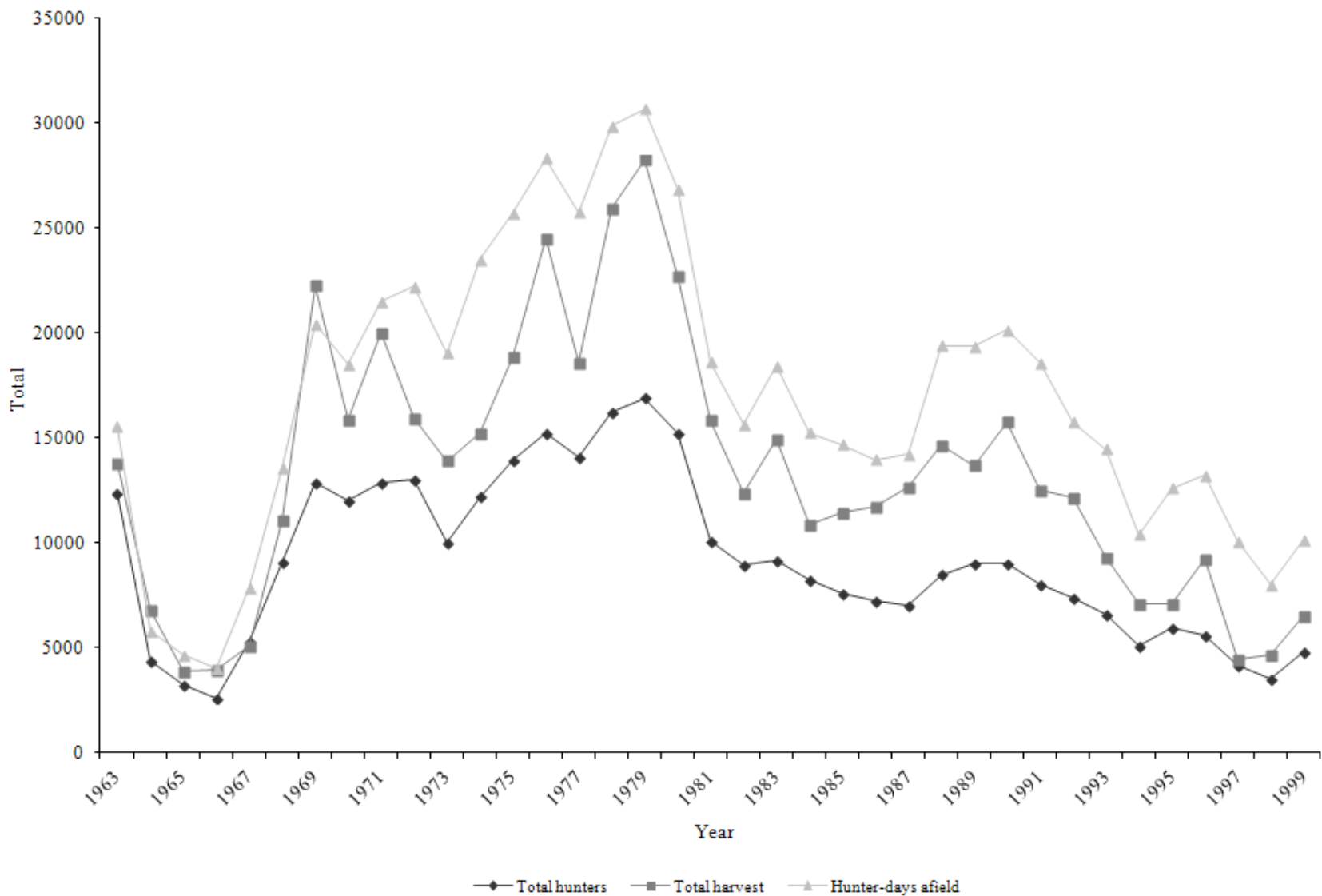
Year	Total chicks	Total females	Total males	Nest success rate (%)	Chicks / hen
1999	75	38	22	60.5	2.0
2000	108	32	23	56.0	3.4
2001	64	50	38	66.0	1.3
2002	35	21	16	57.1	1.7
2003	71	52	12	48.1	1.4
2004			No data		
2005			No data		
2006	142	96	43	79.0	1.5
2007	26	71	46	33.8	0.4
2008	65	71	33	56.3	0.9
2009	40	63	21	55.6	0.6
2010	71	82	45	42.7	0.9
2011	44	44	17	68.2	1.0
2012	42	40	20	42.5	1.1
2013	49	48	22	54.2	1.0
2014			No data		
2015	38	80	39	53.8	0.5
2016	48	60	24	43.3	0.8
2017	19	30	19	50.0	0.6
2018	19	42	8	47.6	0.5
Average (1980–2017)	59	55	28	54	1.2
% change from previous year	0	40	-58	-5	-29
% change from average	-68	-23	-71	-12	-62

Greater sage-grouse wing barrel production counts, West Box Elder, Utah 2010–2018.

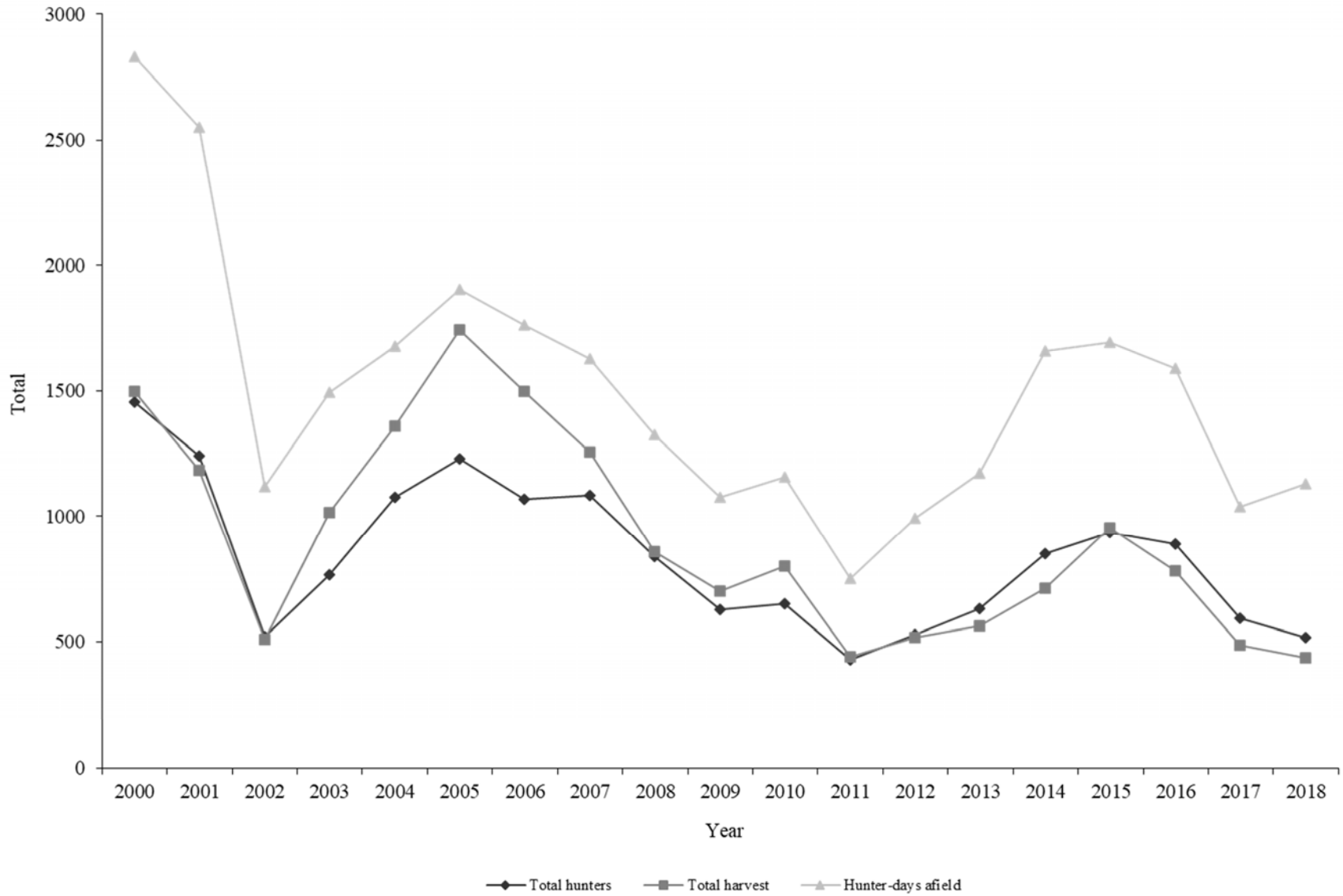
Year	Total chicks	Total females	Total males	Nest success rate (%)	Chicks / hen
2010	4	12	12	—	—
2011	0	9	2	—	—
2012	1	1	1	—	—
2013	10	15	8	40.0	1.0
2014	9	11	6	66.7	1.5
2015	7	30	15	38.5	0.3
2016	8	45	7	50.0	0.2
2017	2	22	5	40.0	0.1
2018	3	18	16	43.8	0.2
Average (1980–2017)	5	18	7	47	0.6
% change from previous year	50	-18	220	9	90
% change from average	-41	-1	129	-7	-69



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

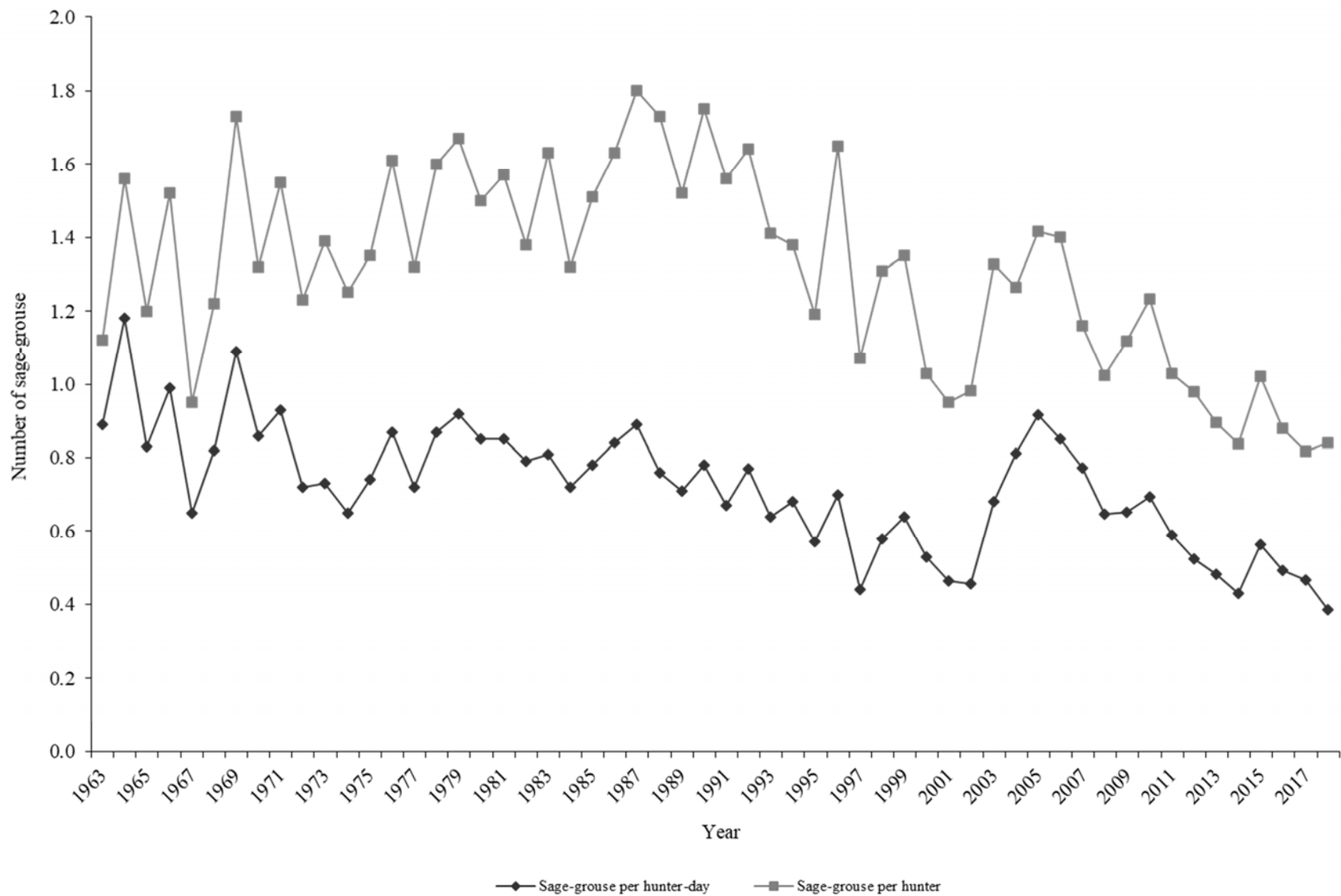


Statewide trends of greater sage-grouse harvest statistics, Utah 2000–2018.



\*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 1963–2018.



\*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 2018.

Hunt number	Hunt unit	Total permits	n	Hunters afield	Grouse bagged	Hunter-days afield	Grouse / hunter-day	Grouse / hunter	Percent success*
SG1000	Diamond/Blue Mtn	62	38	51	42	150	0.3	0.8	51.6
SG1001	Parker Mtn	221	93	162	135	310	0.4	0.8	47.1
SG1002	Rich County	141	79	116	114	277	0.4	1.0	53.8
SG1003	West Box Elder	337	128	190	145	393	0.4	0.8	50.0
	Statewide total	761	338	519	436	1130	0.4	0.9	50.4

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

Statewide greater sage-grouse harvest statistics, Utah 1951–2018.

Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1951	840	2458	—	—	2.9
1952	678	2230	—	—	3.3
1953	895	2581	—	—	2.9
1954	802	2510	—	—	3.1
1955	579	1742	—	—	3.0
1956	495	1375	—	—	3.0
1957	470	1303	—	—	2.8
1958	567	1797	—	—	3.2
1959	699	1875	—	—	2.7
1960	861	2246	—	—	2.6
1961*	1078	1918	—	—	1.8
1962**	2382	5352	5097	1.1	1.9
1963	12366	13793	15564	0.9	1.1
1964	4362	6827	5807	1.2	1.6
1965	3243	3881	4673	0.8	1.2
1966	2612	3962	4006	1.0	1.5
1967	5336	5089	7860	0.7	1.0
1968	9115	11109	13601	0.8	1.2
1969	12894	22282	20466	1.1	1.7
1970	12036	15877	18506	0.9	1.3
1971	12893	20013	21509	0.9	1.6
1972	13040	15983	22232	0.7	1.2
1973	10017	13926	19049	0.7	1.4
1974	12214	15215	23516	0.7	1.3
1975	13996	18916	25720	0.7	1.4
1976	15283	24541	28342	0.9	1.6
1977	14078	18615	25759	0.7	1.3
1978	16231	25938	29861	0.9	1.6
1979	16927	28280	30682	0.9	1.7
1980	15219	22770	26893	0.9	1.5
1981	10083	15857	18617	0.9	1.6
1982	8997	12383	15663	0.8	1.4
1983	9201	14949	18467	0.8	1.6
1984	8283	10921	15266	0.7	1.3
1985	7586	11466	14702	0.8	1.5

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 1951–2018 (continued).

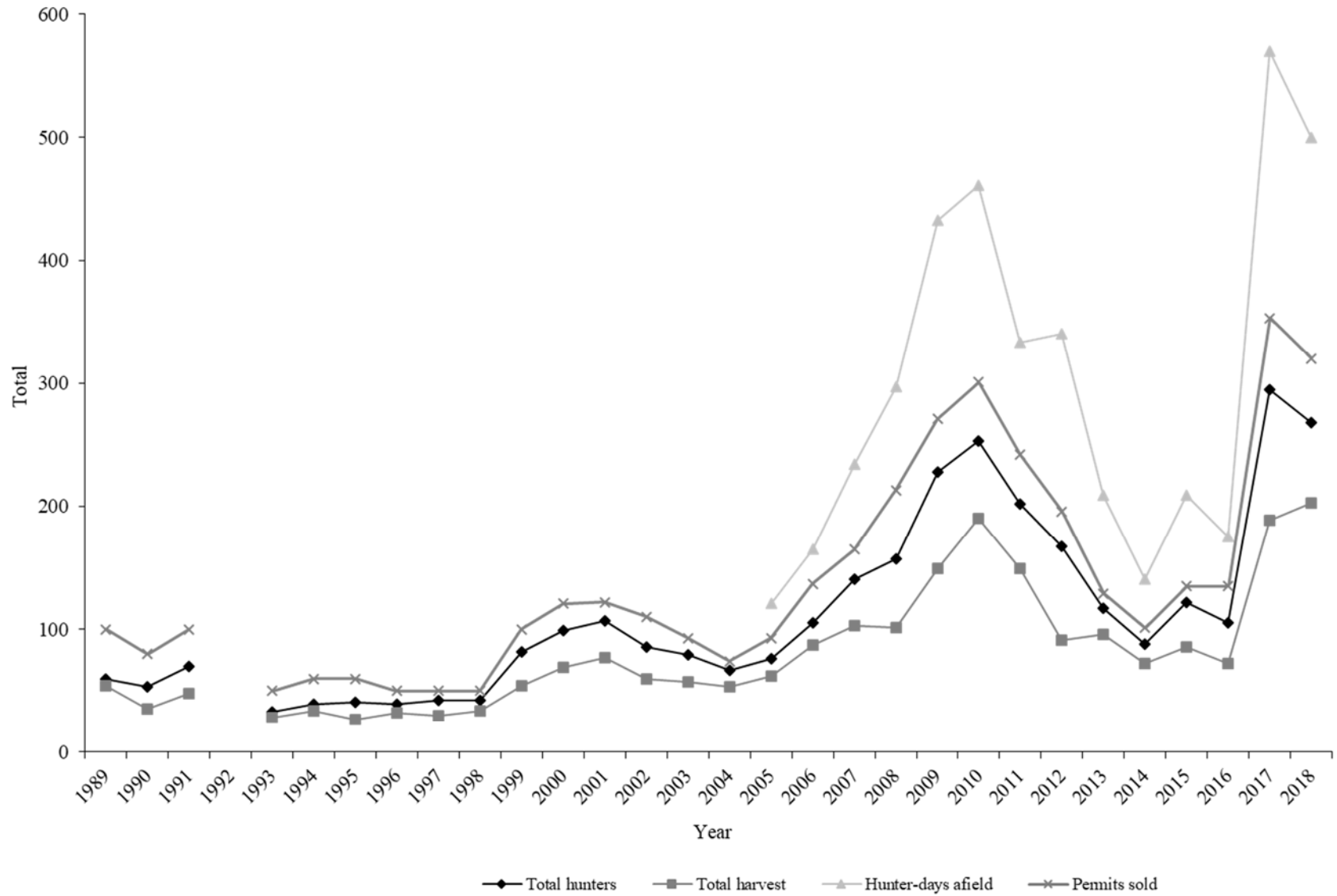
Year	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1986	7233	11766	13992	0.8	1.6
1987	7060	12673	14242	0.9	1.8
1988	8499	14692	19418	0.8	1.7
1989	9002	13710	19373	0.7	1.5
1990	9014	15784	20147	0.8	1.8
1991	8018	12542	18596	0.7	1.6
1992	7393	12156	15781	0.8	1.6
1993	6594	9311	14480	0.6	1.4
1994	5133	7084	10406	0.7	1.4
1995	5987	7133	12615	0.6	1.2
1996	5574	9220	13215	0.7	1.7
1997	4178	4489	10101	0.4	1.1
1998	3559	4676	8003	0.6	1.3
1999	4830	6503	10161	0.6	1.4
2000*	1456	1497	2829	0.5	1.0
2001	1242	1182	2552	0.5	1.0
2002	521	511	1120	0.5	1.0
2003	767	1017	1494	0.7	1.3
2004	1077	1361	1677	0.8	1.3
2005	1231	1744	1904	0.9	1.4
2006	1070	1498	1762	0.9	1.4
2007	1083	1255	1627	0.8	1.2
2008	838	857	1327	0.6	1.0
2009	628	702	1077	0.7	1.1
2010	650	802	1156	0.7	1.2
2011	429	441	749	0.6	1.0
2012	530	519	992	0.5	1.0
2013	631	565	1171	0.5	0.9
2014	852	713	1657	0.4	0.8
2015	935	954	1692	0.6	1.0
2016	888	782	1589	0.5	0.9
2017	593	485	1039	0.5	0.8
2018	519	436	1130	0.4	0.8
Average (1951–2017)	5358	7927	11595	0.7	1.6
% change from previous year	-12	-10	9	-17	3
% change from average	-90	-94	-90	-47	-47

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

# SANDHILL CRANE



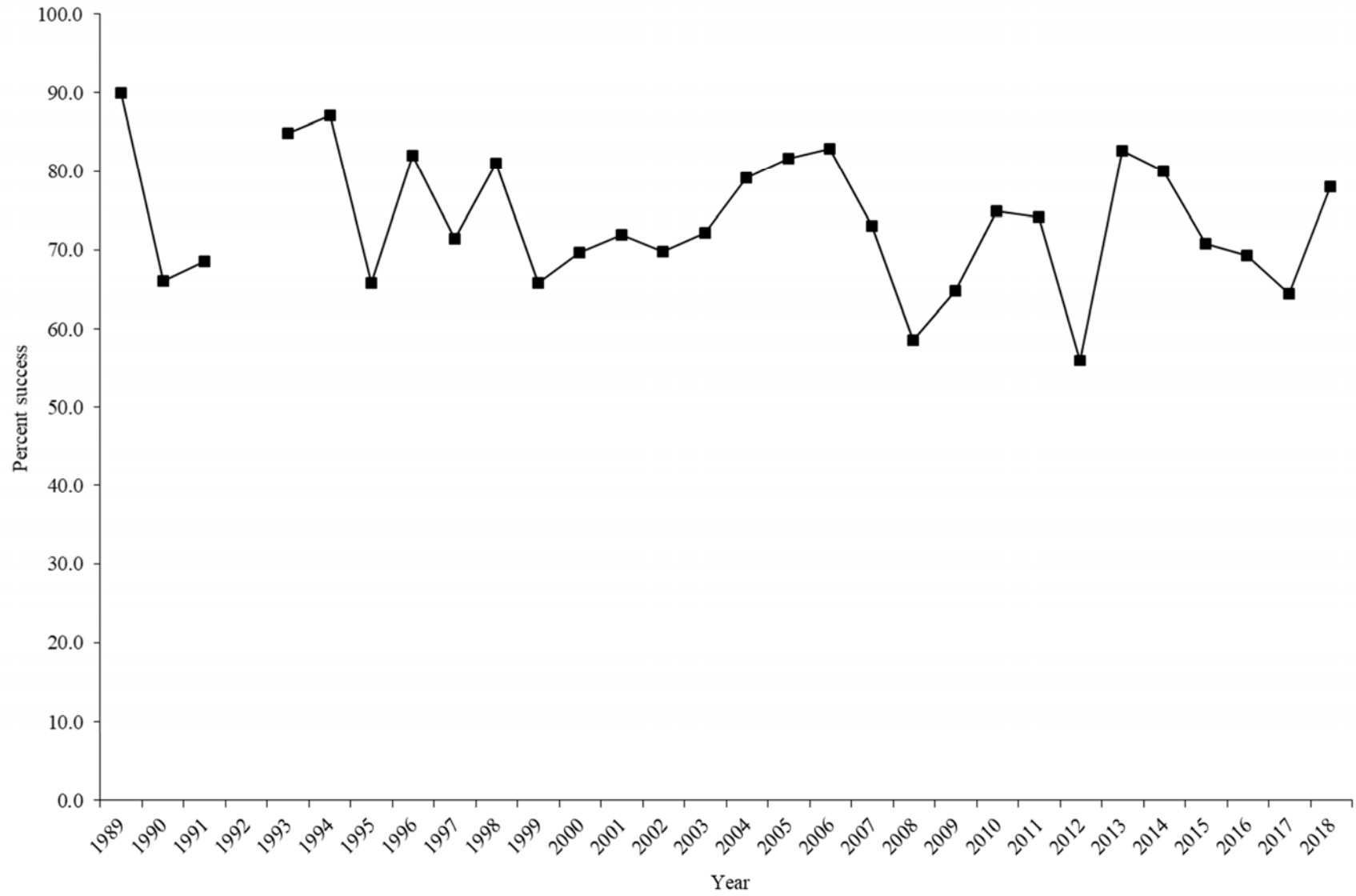
Statewide trends of sandhill crane harvest statistics, Utah 1989–2018.



\* No permits were issued in 1992.



Statewide trends of sandhill crane hunter success, Utah 1989–2018.



\*No permits were issued in 1992.

Sandhill crane harvest statistics by hunt area, Utah 2018.

Hunt number	Hunt unit	Total permits	n	Hunters afield	Adult harvest	Young harvest	Unknown harvest	Total harvest	Hunter-days afield	Crane / hunter-day	Percent success
SC1000	East Box Elder	109	62	90	63	2	0	65	159	0.4	72.5
SC1001	Cache County	105	58	87	49	7	2	58	176	0.3	66.7
SC1002	Rich County	17	13	16	12	1	0	13	29	0.4	83.3
SC1003	Uintah County early	30	25	25	20	4	0	24	40	0.6	95.2
SC1004	Uintah County middle	30	28	24	20	1	0	21	45	0.5	90.9
SC1005	Uintah County late	29	21	26	19	3	0	22	51	0.4	84.2
	Total	320	207	268	183	18	2	203	500	0.4	78.0

Statewide sandhill crane harvest statistics, Utah 1989–2018.

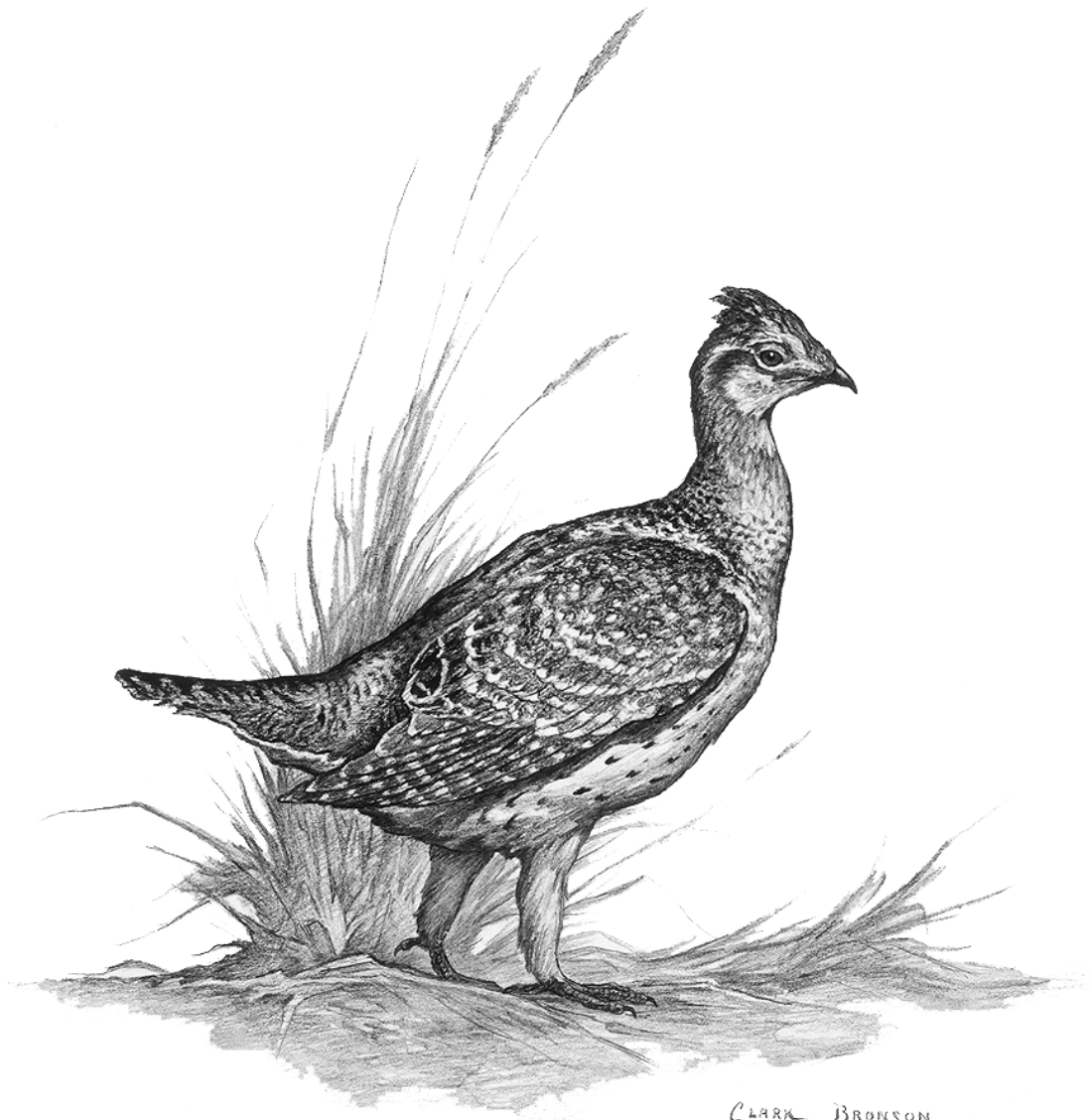
Year	Permits sold	Total hunters	Adult harvest	Young harvest	Total harvest	Hunter-days afield	Crane / hunter-day	Percent success
1989	100	60	49	5	54	—	—	90.0
1990	80	53	30	5	35	—	—	66.0
1991	100	70	44	4	48	—	—	68.6
1992	0	0	0	0	0	—	—	0.0
1993	50	33	26	2	28	—	—	84.8
1994	60	39	31	3	34	—	—	87.2
1995	60	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	0.5	81.6
2006	137	105	75	12	87	165	0.5	82.9
2007	165	141	94	9	103	234	0.4	73.0
2008	213	157	91	9	101*	297	0.3	58.6
2009	271	228	128	19	149**	432	0.3	64.8
2010	301	253	164	26	190	461	0.4	74.9
2011	242	202	123	26	149	333	0.4	74.2
2012	196	167	79	9	91***	340	0.3	56.0
2013	129	117	86	7	96***	209	0.5	82.6
2014	101	88	55	15	72	141	0.5	80.0
2015	135	122	75	9	86*	209	0.4	70.8
2016	135	105	65	7	72	175	0.4	69.3
2017	353	295	160	25	189**	570	0.3	64.4
2018	320	268	183	18	203**	500	0.4	78.0
Average (1989–2017)	138	113	67	9	76	299	0.4	73.7
% change from previous year	-9	-9	14	-28	7	-12	22	21
% change from average	131	138	174	98	166	67	-3	6

\* One crane of unknown age

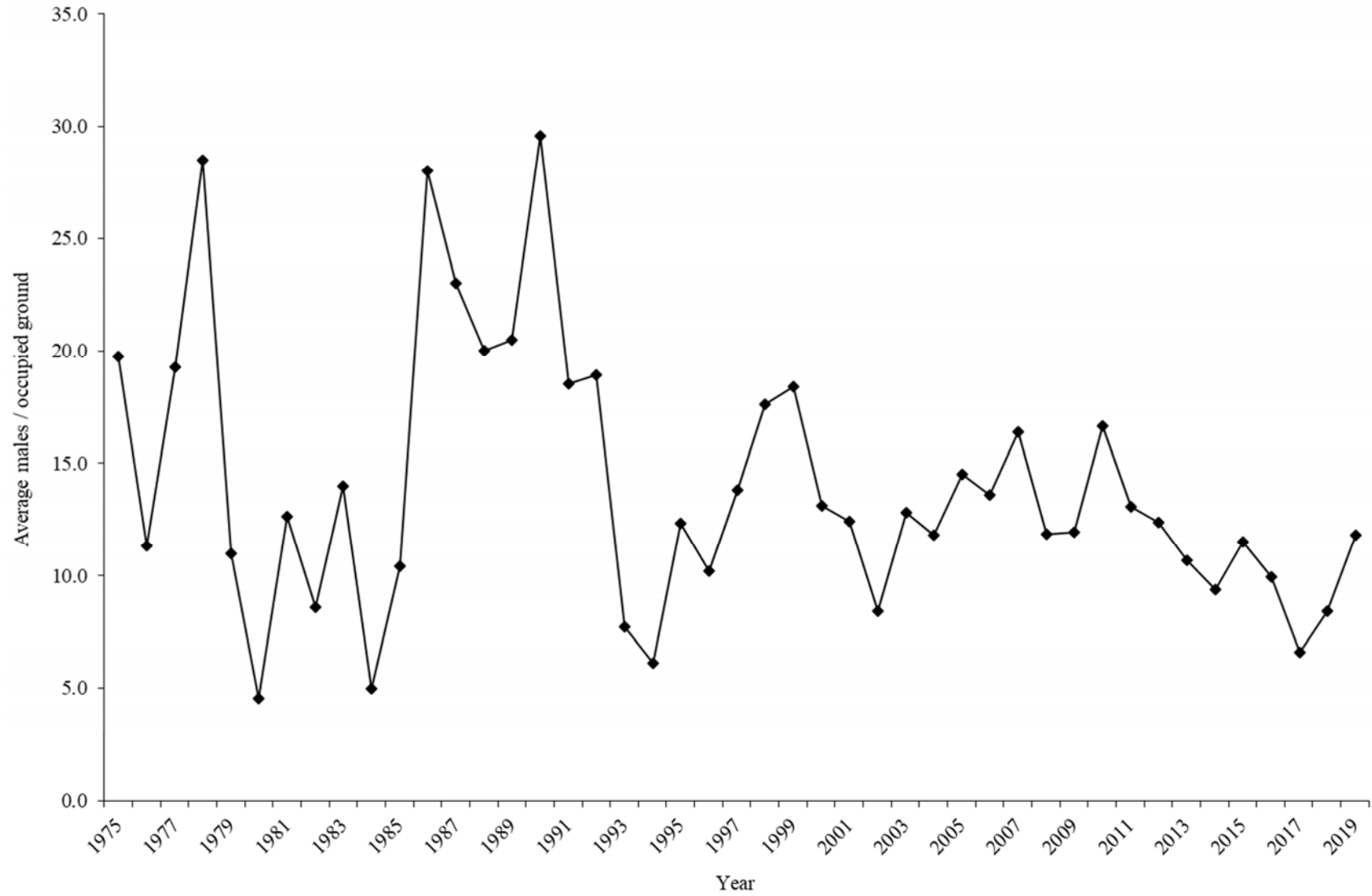
\*\* Two cranes of unknown age

\*\*\* Three cranes of unknown age

# SHARP-TAILED GROUSE



Statewide trends of average sharp-tailed grouse males per occupied strutting ground, Utah 1975–2019.



Strutting ground counts of sharp-tailed grouse by county, Utah 2010–2019.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Average (2010–2018)
<b>Antelope Island</b>											
Number of strutting grounds visited	—	1	1	1	1	1	—	1	1	1	1
Number of strutting grounds occupied	—	1	1	1	1	1	—	0	0	0	1
Total male grouse counted	—	7	5	5	7	8	—	0	0	0	4
Average males / occupied grounds	—	7.0	5.0	5.0	7.0	8.0	—	—	—	—	6.4
<b>Box Elder</b>											
Number of strutting grounds visited	63	58	61	62	56	57	62	53	42	54	57
Number of strutting grounds occupied	42	40	41	34	24	27	27	19	14	19	29
Total male grouse counted	660	500	503	348	216	283	233	90	101	225	316
Average males / occupied grounds	15.7	12.5	12.3	10.2	9.0	10.5	8.6	4.7	7.2	11.8	10.3
<b>Cache</b>											
Number of strutting grounds visited	13	9	12	11	9	10	19	13	12	7	12
Number of strutting grounds occupied	6	6	5	6	9	9	14	13	12	7	9
Total male grouse counted	122	83	79	88	104	124	163	117	114	83	108
Average males / occupied grounds	20.3	13.8	15.8	14.7	11.6	13.8	11.6	9.0	9.5	11.9	13.2
<b>Morgan</b>											
Number of strutting grounds visited	2	1	—	2	1	—	—	—	1	—	1
Number of strutting grounds occupied	2	1	—	2	1	—	—	—	0	—	1
Total male grouse counted	53	45	—	17	4	—	—	—	0	—	24
Average males / occupied grounds	26.5	45.0	—	8.5	4.0	—	—	—	—	—	21.0
<b>Weber</b>											
Number of strutting grounds visited	1	1	1	1	1	1	1	1	1	—	1
Number of strutting grounds occupied	1	1	1	1	1	1	1	1	1	—	1
Total male grouse counted	15	8	9	11	7	22	22	12	13	—	12
Average males / occupied grounds	15.0	8.0	9.0	11.0	7.0	22.0	22.0	12.0	13.0	—	13.2
<b>Statewide total</b>											
Number of strutting grounds visited	79	70	75	77	68	69	82	68	57	62	71
Number of strutting grounds occupied	51	49	48	44	36	38	42	33	27	26	39
Total male grouse counted	850	643	596	469	338	437	418	219	228	308	451
Average males / occupied grounds	16.7	13.1	12.4	10.7	9.4	11.5	10.0	6.6	8.4	11.8	11.1

Statewide trends of sharp-tailed grouse strutting ground counts, Utah 1975–2019.

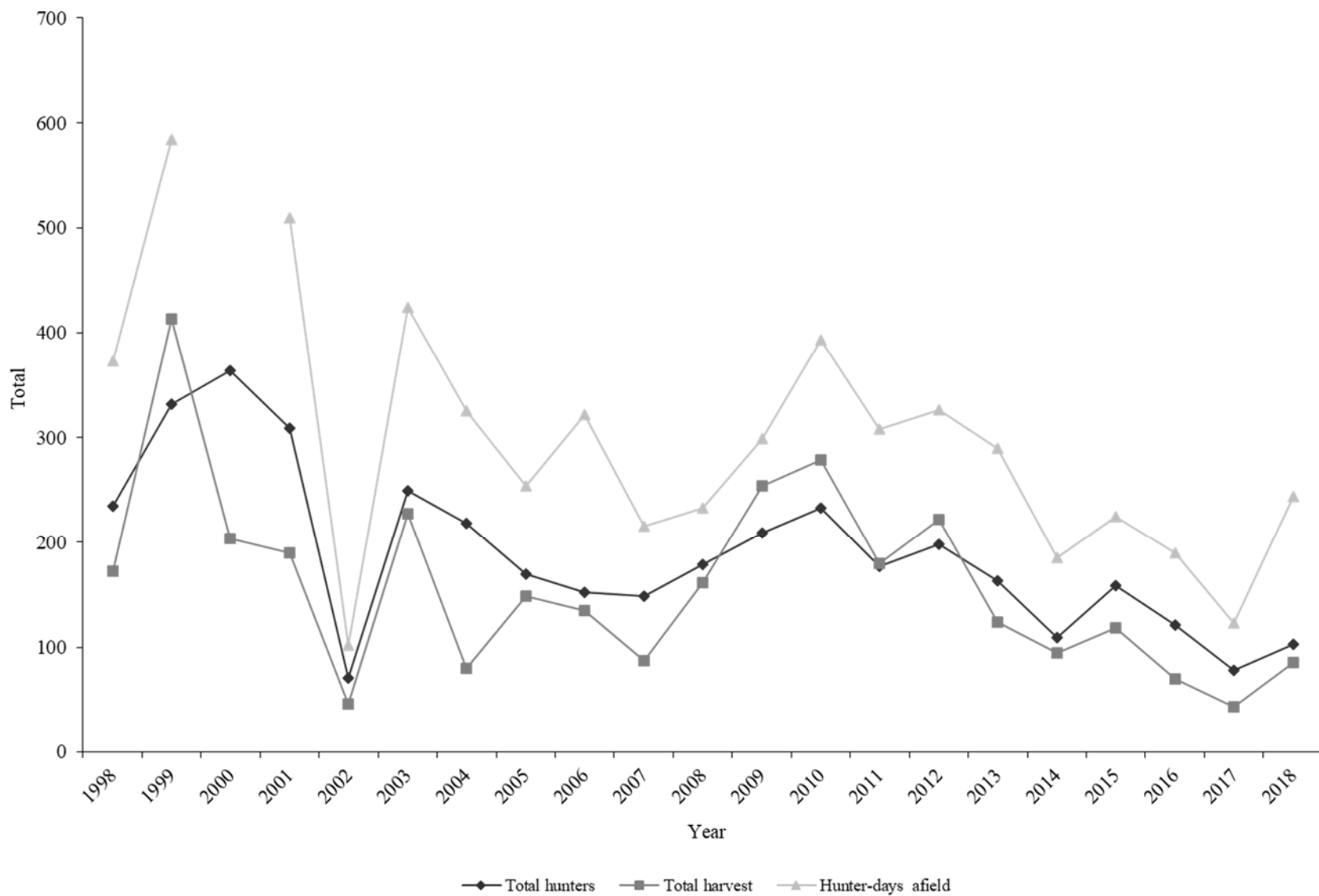
Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
1975	4	4	79	19.8
1976	4	3	34	11.3
1977	8	7	135	19.3
1978	8	8	228	28.5
1979	17	17	187	11.0
1980	17	16	73	4.6
1981	15	15	190	12.7
1982	15	12	103	8.6
1983	7	7	98	14.0
1984	7	4	20	5.0
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
2011	70	49	643	13.1
2012	75	48	596	12.4

Statewide trends of sharp-tailed grouse strutting ground counts, Utah 1975–2019 (continued).

Year	Number of grounds visited	Number of occupied grounds	Total male grouse counted	Average male grouse / occupied ground
2013	77	44	469	10.7
2014	68	36	338	9.4
2015	69	38	437	11.5
2016	82	42	418	10.0
2017	68	33	219	6.6
2018	57	27	228	8.4
2019	62	26	308	11.8
Average (1975–2018)	37.9	25.5	338.8	14.1

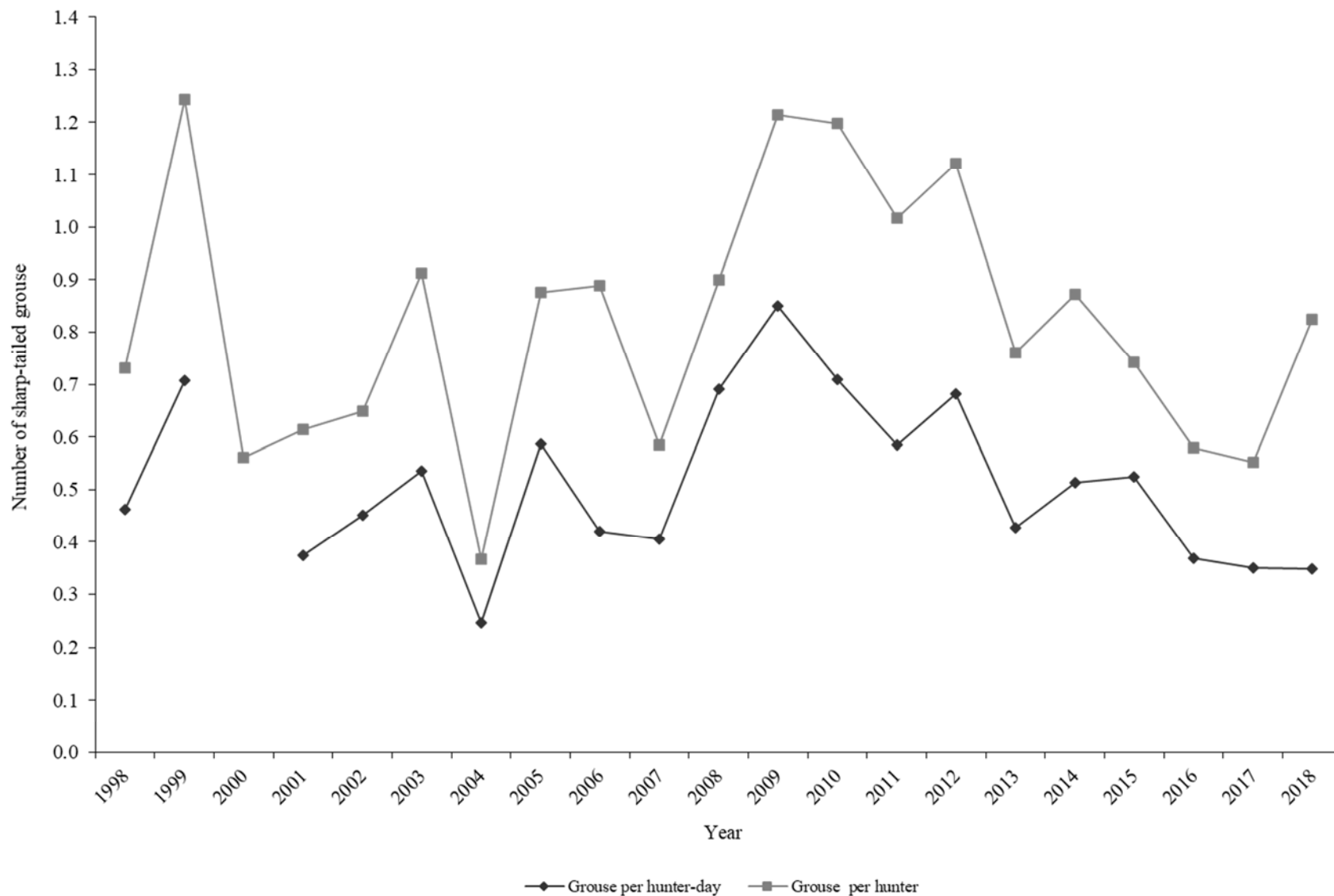


Statewide trends of sharp-tailed grouse harvest statistics, Utah 1998–2018.



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

Statewide trends of sharp-tailed grouse hunter success, Utah 1998–2018.



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

Sharp-tailed grouse harvest statistics by hunt area, Utah 2018.

Hunt number	Hunt unit	Total permits	n	Hunters afield	Grouse bagged	Hunter-days afield	Grouse / hunter-day	Grouse / hunter	Percent success*
ST1000	Northeast Box Elder	97	68	47	27	100	0.3	0.6	36.4
ST1001	Cache	91	63	56	58	144	0.4	1.0	61.5
	Total*	188	131	103	85	244	0.3	0.8	50.0

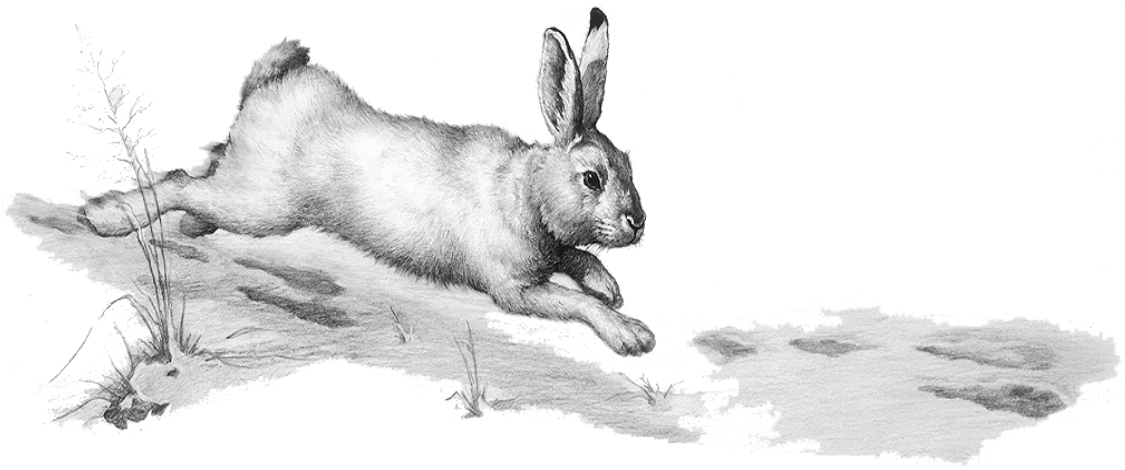
\*Hunters could harvest 2 birds. Hunters were considered successful if they harvested at least 1 bird.

Statewide sharp-tailed grouse harvest statistics, Utah 1998–2018.

Year	Permits sold	Total hunters	Total harvest	Hunter-days afield	Grouse / hunter-day	Grouse / hunter
1998	378	235	172	373	0.5	0.7
1999	381	332	413	584	0.7	1.2
2000	663	364	204	—	—	0.6
2001	673	309	190	509	0.4	0.6
2002	143	71	46	102	0.5	0.6
2003	427	249	227	424	0.5	0.9
2004	350	218	80	325	0.2	0.4
2005	339	170	149	254	0.6	0.9
2006	329	152	135	322	0.4	0.9
2007	351	149	87	215	0.4	0.6
2008	318	179	161	233	0.7	0.9
2009	324	209	254	299	0.8	1.2
2010	333	233	279	393	0.7	1.2
2011	282	177	180	308	0.6	1.0
2012	319	198	222	326	0.7	1.1
2013	243	163	124	290	0.4	0.8
2014	190	109	95	185	0.5	0.9
2015	296	159	118	225	0.5	0.7
2016	222	121	70	190	0.4	0.6
2017	153	78	43	123	0.3	0.6
2018	188	103	85	244	0.3	0.8
Average (1998–2017)	329	189	159	296	0.5	0.8
% change from previous year	23	32	98	98	0	50
% change from average	-43	-46	-46	-18	-33	1

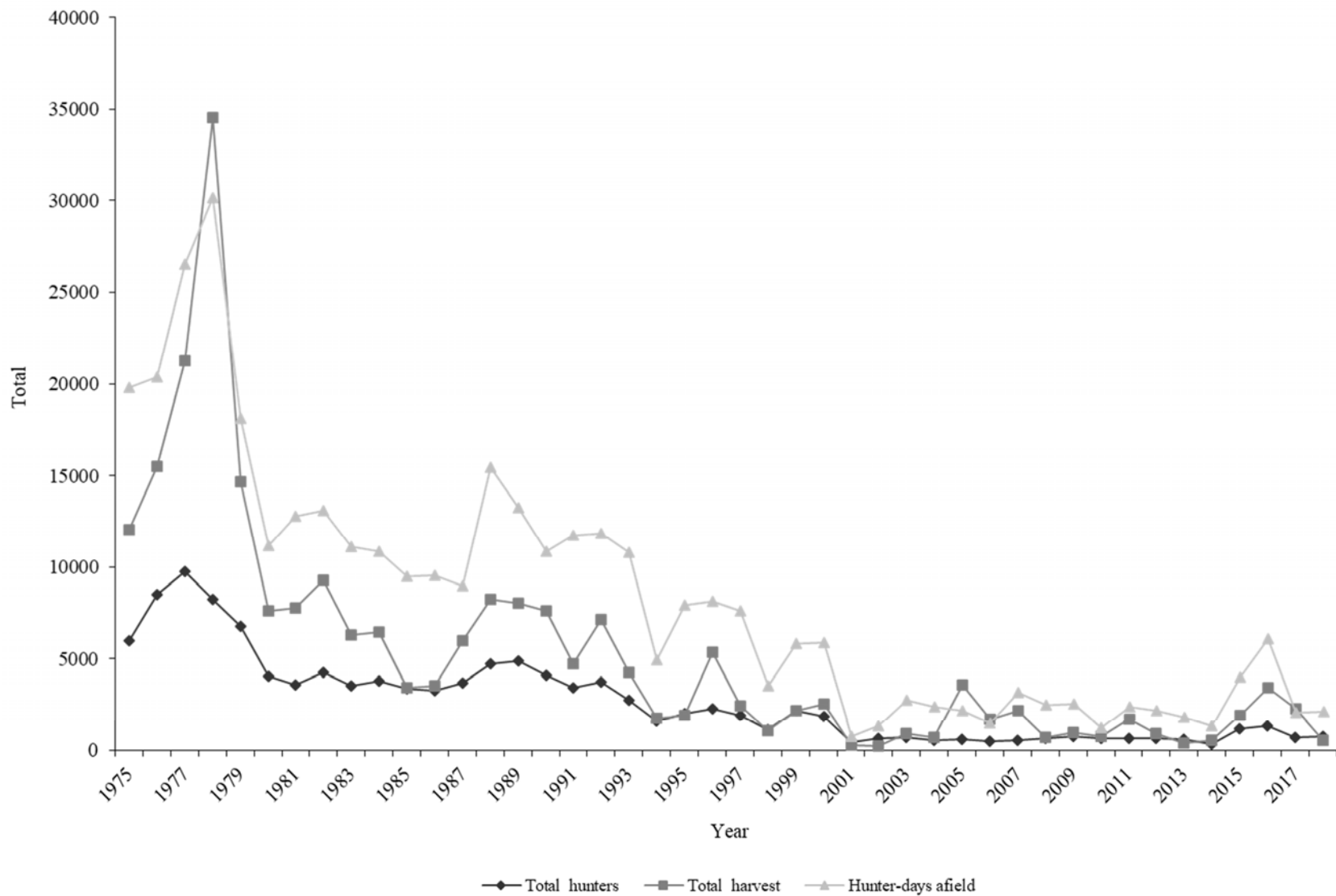
\*Hunter-days afield data was not collected in 2000.

# SNOWSHOE HARE

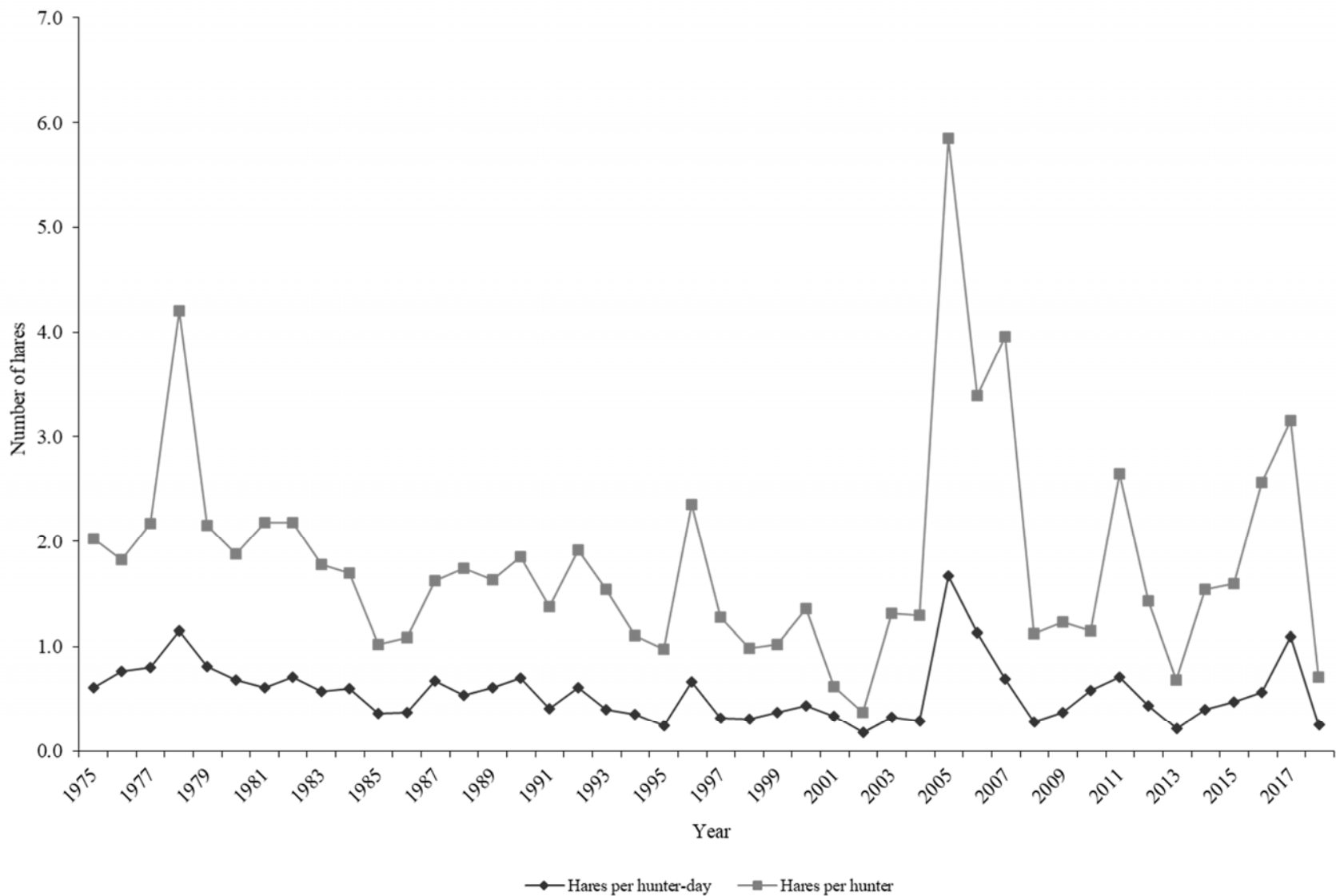


CLARK BRANSON

Statewide trends of snowshoe hare harvest statistics, Utah 1975–76 to 2018–19.



Statewide trends of snowshoe hare hunter success, Utah 1975–76 to 2018–19.



Snowshoe hare harvest statistics by region and county, Utah 2018–19.

Region and county	n	Hunters afield	Hunter-days afield	Hares bagged	Hares / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	6	56	141	112	0.8	6.6	21.6
Cache	13	122	477	89	0.2	22.5	17.0
Davis	1	9	31	0	0.0	1.4	0.0
Morgan	2	19	37	24	0.6	1.7	4.5
Rich	1	9	80	0	0.0	3.8	0.0
Summit	13	122	269	36	0.1	12.7	6.8
Weber	0	0	—	—	—	0.0	0.0
Regional total	36	337	1035	261	0.3	48.8	50.0
Central Region							
Juab	1	9	12	18	1.5	0.6	3.4
Salt Lake	5	47	184	18	0.1	8.7	3.4
Sanpete	2	19	67	0	0.0	3.2	0.0
Tooele	2	19	12	6	0.5	0.6	1.1
Utah	3	28	37	12	0.3	1.7	2.3
Wasatch	4	38	67	0	0.0	3.2	0.0
Regional total	17	160	379	54	0.1	17.9	10.2
Southern Region							
Beaver	0	0	—	—	—	0.0	0.0
Garfield	1	9	6	0	0.0	0.3	0.0
Iron	0	0	—	—	—	0.0	0.0
Kane	0	0	—	—	—	0.0	0.0
Millard	0	0	—	—	—	0.0	0.0
Piute	0	0	—	—	—	0.0	0.0
Sevier	2	19	18	18	1.0	0.9	3.4
Washington	0	0	—	—	—	0.0	0.0
Wayne	1	9	12	47	3.9	0.6	9.1
Regional total	4	37	36	65	1.8	1.7	12.5
Northeastern Region							
Daggett	4	38	122	0	0.0	5.8	0.0
Duchesne	5	47	153	65	0.4	7.2	12.5
Uintah	10	94	275	53	0.2	13.0	10.2
Regional total	19	179	550	118	0.2	26.0	22.7
Southeastern Region							
Carbon	1	9	12	24	2.0	0.6	4.5
Emery	1	9	24	0	0.0	1.2	0.0
Grand	0	0	—	—	—	0.0	0.0
San Juan	0	0	—	—	—	0.0	0.0
Regional total	2	18	36	24	0.7	1.7	4.5
Unknown	4	38	80	0	0.0	3.8	0.0
Statewide total*	78	732	2118	521	0.2	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 1975–76 to 2018–19.

Year	Total hunters	Total harvest	Hunter-days Afield	Hares / hunter-day	Hares / hunter
1975–76	5961	12072	19770	0.6	2.0
1976–77	8502	15500	20367	0.8	1.8
1977–78	9752	21232	26535	0.8	2.2
1978–79	8205	34535	30155	1.1	4.2
1979–80	6787	14641	18115	0.8	2.2
1980–81	4048	7603	11140	0.7	1.9
1981–82	3554	7750	12782	0.6	2.2
1982–83	4245	9257	13073	0.7	2.2
1983–84	3544	6302	11088	0.6	1.8
1984–85	3796	6455	10840	0.6	1.7
1985–86	3365	3429	9494	0.4	1.0
1986–87	3277	3544	9541	0.4	1.1
1987–88	3702	6005	8947	0.7	1.6
1988–89	4725	8231	15444	0.5	1.7
1989–90	4895	8006	13233	0.6	1.6
1990–91	4095	7593	10825	0.7	1.9
1991–92	3427	4731	11742	0.4	1.4
1992–93	3732	7144	11836	0.6	1.9
1993–94	2755	4237	10774	0.4	1.5
1994–95	1565	1722	4922	0.3	1.1
1995–96	1983	1924	7891	0.2	1.0
1996–97	2276	5365	8106	0.7	2.4
1997–98	1912	2431	7628	0.3	1.3
1998–99	1093	1070	3536	0.3	1.0
1999–00	2139	2173	5831	0.4	1.0
2000–01	1855	2526	5879	0.4	1.4
2001–02	417	256	768	0.3	0.6
2002–03	658	240	1348	0.2	0.4
2003–04	686	897	2747	0.3	1.3
2004–05	525	681	2377	0.3	1.3
2005–06	612	3580	2142	1.7	5.8
2006–07	496	1683	1485	1.1	3.4
2007–08	550	2175	3149	0.7	4.0
2008–09	619	696	2489	0.3	1.1
2009–10	766	944	2532	0.4	1.2
2010–11	631	726	1243	0.6	1.2
2011–12	634	1682	2368	0.7	2.7
2012–13	645	924	2147	0.4	1.4
2013–14	568	384	1777	0.2	0.7
2014–15	345	533	1333	0.4	1.5

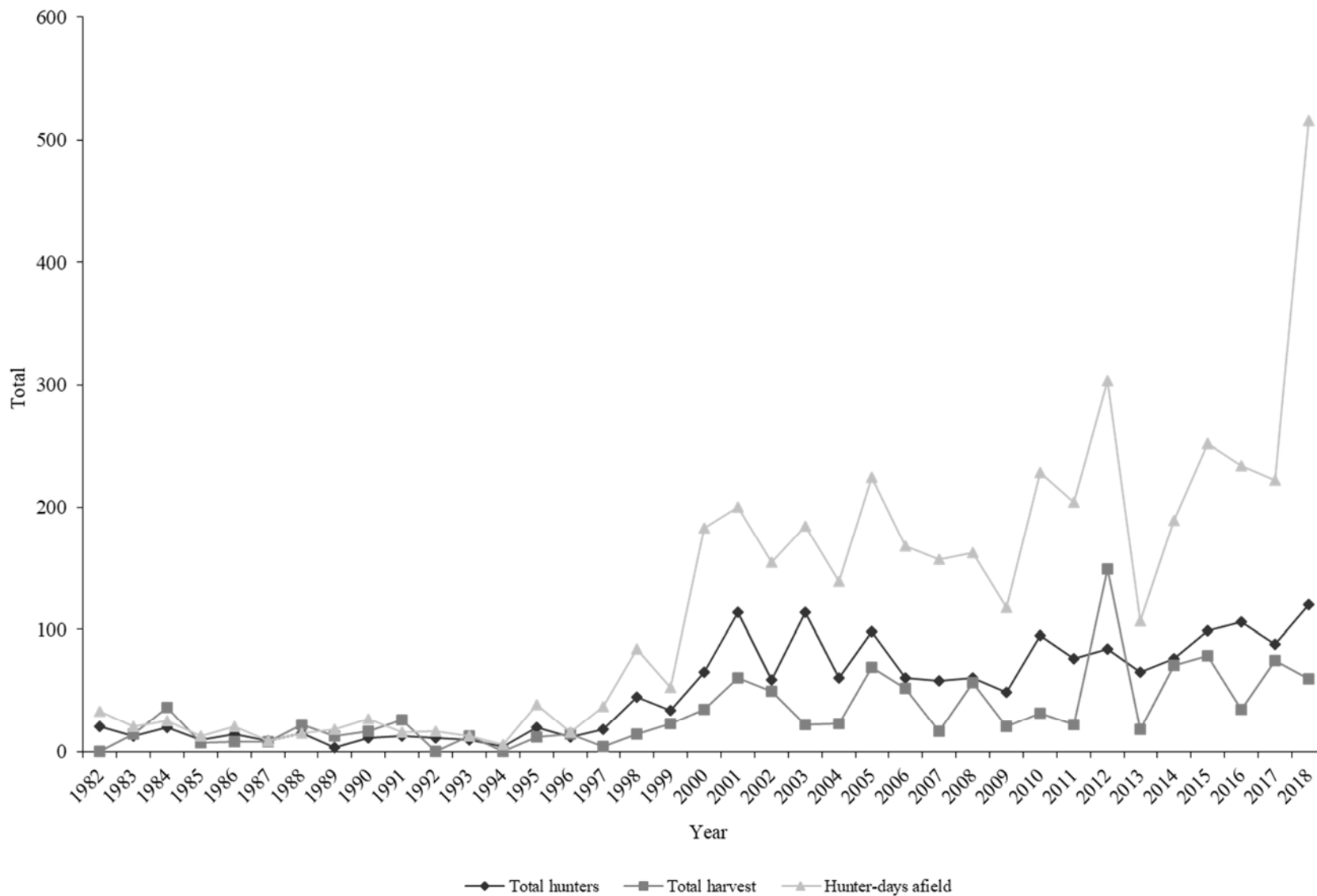
Statewide snowshoe hare harvest statistics, Utah 1975–76 to 2018–19 (continued).

Year	Total hunters	Total harvest	Hunter-days afield	Hares / hunter-day	Hares / hunter
2015–16	1192	1897	4001	0.5	1.6
2016–17	1326	3407	6089	0.6	2.6
2017–18	720	2268	2077	1.1	3.2
2018–19	732	521	2118	0.2	0.7
Average (1975–2018)	2666	5204	8220	0.6	1.8
% change from previous year	2	-77	2	-77	-77
% change from average	-73	-90	-74	-57	-61

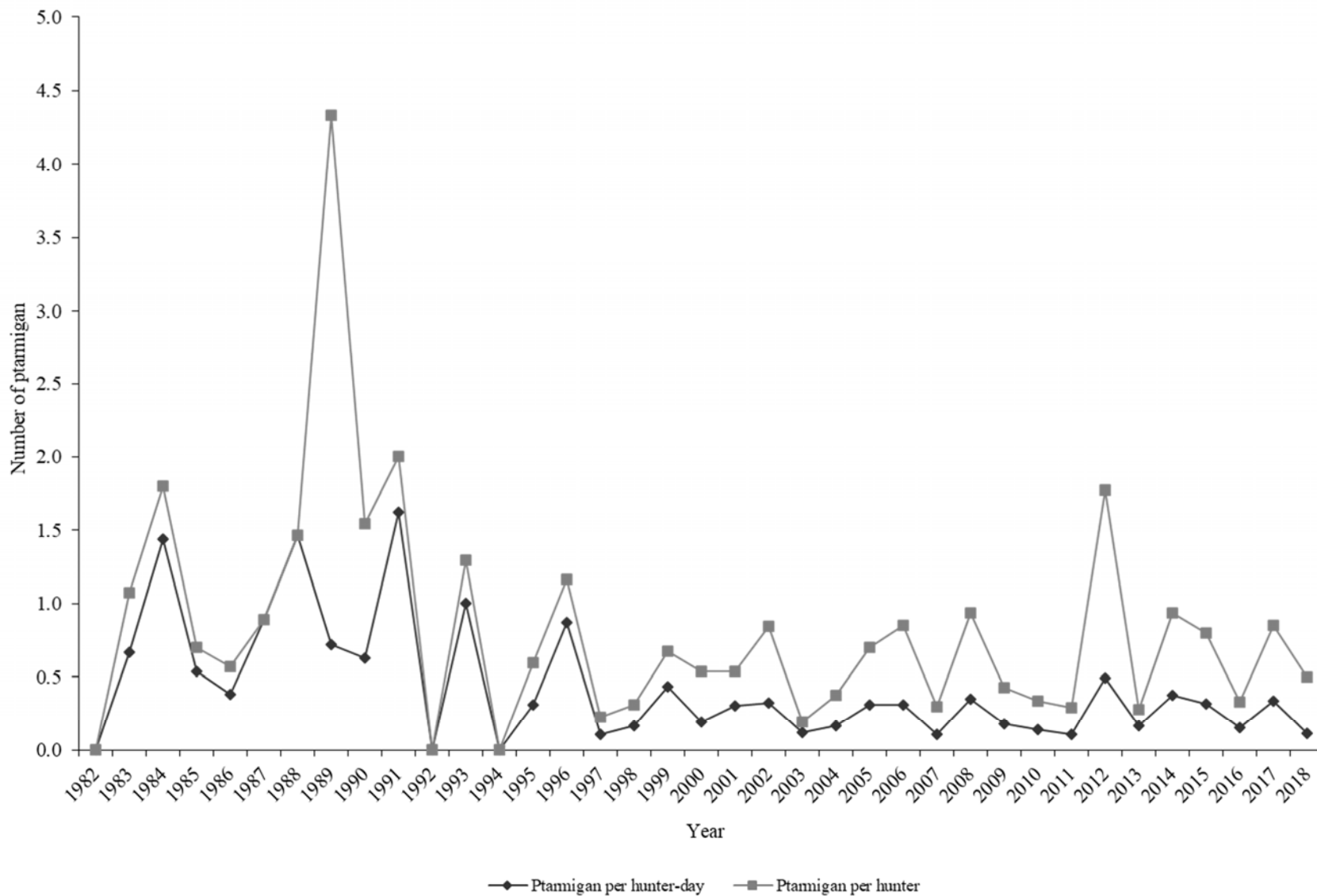
# WHITE-TAILED PTARMIGAN



Statewide trends of white-tailed ptarmigan harvest statistics, Utah 1982–2018.



Statewide trends of white-tailed ptarmigan hunter success, Utah 1982–2018.



White-tailed ptarmigan harvest statistics by region and county, Utah 2018.

Region and county	n	Hunters afield	Hunter-days afield	Ptarmigan bagged	Ptarmigan / hunter-day	% pressure	% harvest
Northern Region							
Box Elder	2	5	30	0	0.0	5.8	0.0
Cache	1	3	3	0	0.0	0.6	0.0
Davis	0	0	—	—	—	0.0	0.0
Morgan	0	0	—	—	—	0.0	0.0
Rich	0	0	—	—	—	0.0	0.0
Summit	15	41	92	30	0.3	17.8	50.0
Weber	2	5	16	0	0.0	3.1	0.0
Regional total	20	54	141	30	0.2	27.3	50.0
Central Region							
Juab	0	0	—	—	—	0.0	0.0
Salt Lake	0	0	—	—	—	0.0	0.0
Sanpete	0	0	—	—	—	0.0	0.0
Tooele	1	3	5	0	0.0	1.0	0.0
Utah	0	0	—	—	—	0.0	0.0
Wasatch	1	3	5	0	0.0	1.0	0.0
Regional total	2	6	10	0	0.0	1.9	0.0
Southern Region							
Beaver	0	0	—	—	—	0.0	0.0
Garfield	0	0	—	—	—	0.0	0.0
Iron	0	0	—	—	—	0.0	0.0
Kane	0	0	—	—	—	0.0	0.0
Millard	0	0	—	—	—	0.0	0.0
Piute	0	0	—	—	—	0.0	0.0
Sevier	0	0	—	—	—	0.0	0.0
Washington	0	0	—	—	—	0.0	0.0
Wayne	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Northeastern Region							
Daggett	7	19	22	0	0.0	4.3	0.0
Duchesne	9	24	46	30	0.7	8.9	50.0
Uintah	7	19	65	0	0.0	12.6	0.0
Regional total	23	62	133	30	0.2	25.8	50.0
Southeastern Region							
Carbon	0	0	—	—	—	0.0	0.0
Emery	0	0	—	—	—	0.0	0.0
Grand	0	0	—	—	—	0.0	0.0
San Juan	0	0	—	—	—	0.0	0.0
Regional total	0	0	—	—	—	0.0	0.0
Unknown	4	11	231	0	0.0	44.8	0.0
Statewide total**	44	120	516	60	0.1	100.0	100.0

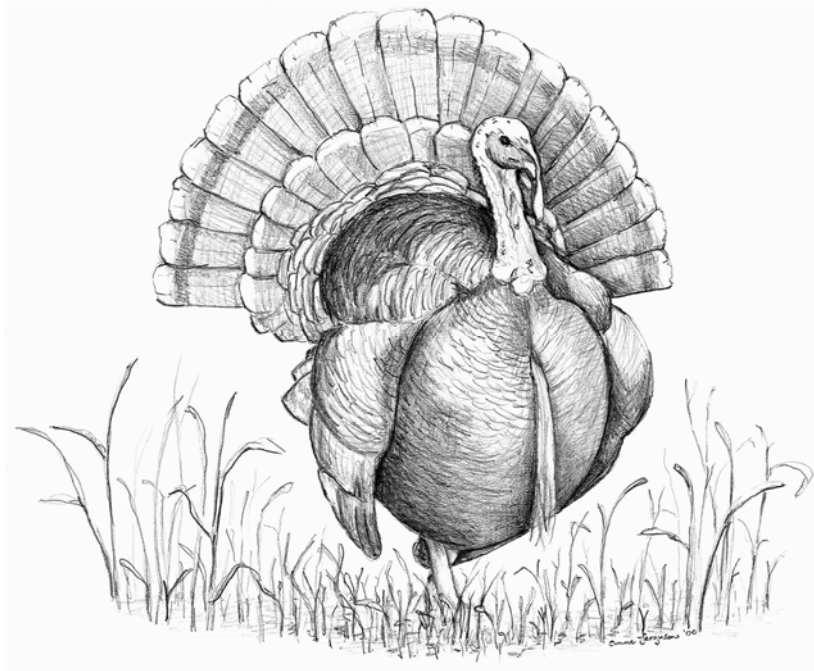
\*White-tailed ptarmigan are typically found in high elevation areas in Daggett, Duchesne, Summit, and Uintah counties.

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

Statewide white-tailed ptarmigan harvest statistics, Utah 1982–2018.

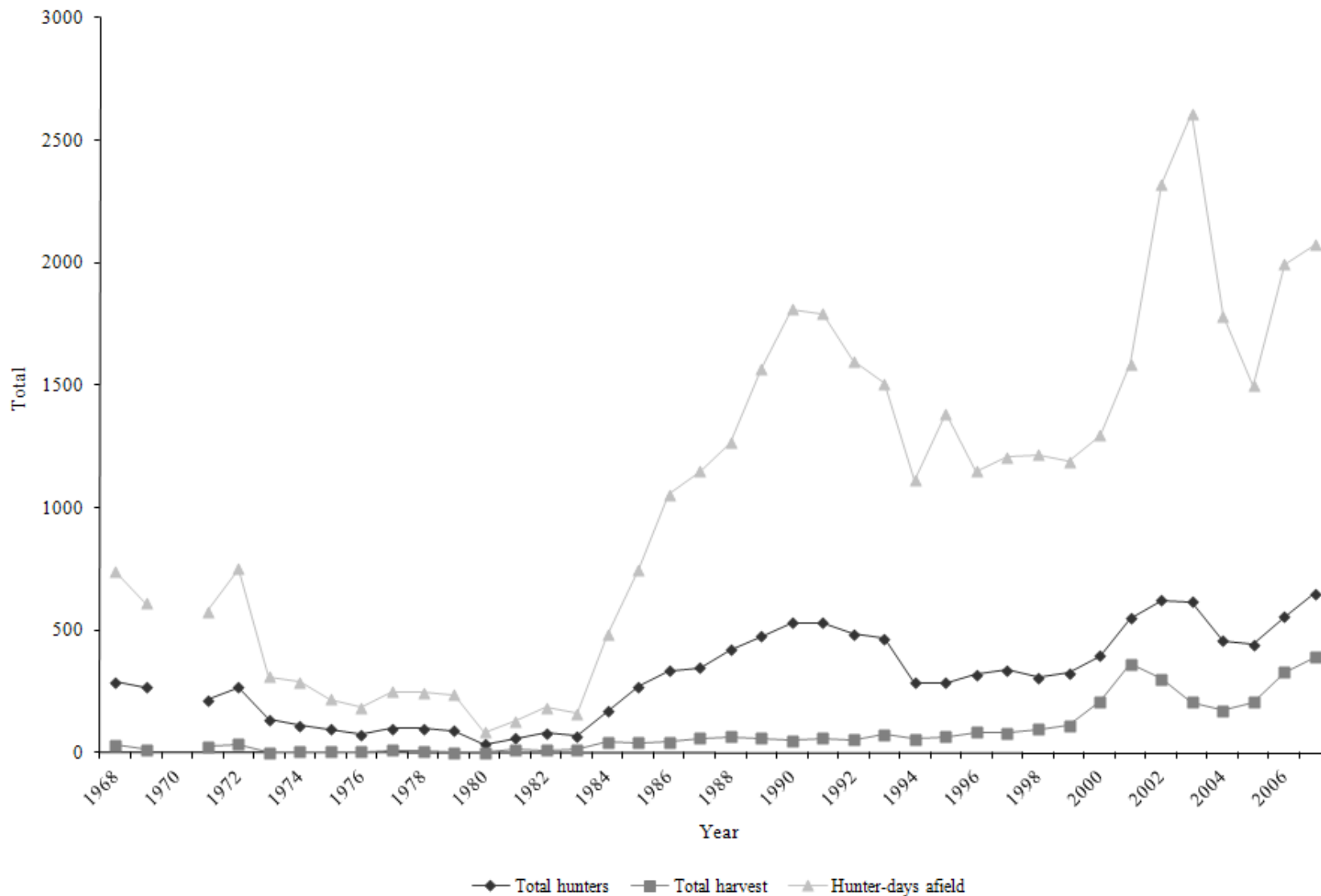
Year	Total hunters	Total harvest	Hunter-days afield	Ptarmigan / hunter-day	Ptarmigan / hunter
1982	21	0	33	0.0	0.0
1983	13	14	21	0.7	1.1
1984	20	36	25	1.4	1.8
1985	10	7	13	0.5	0.7
1986	14	8	21	0.4	0.6
1987	9	8	9	0.9	0.9
1988	15	22	15	1.5	1.5
1989	3	13	18	0.7	4.3
1990	11	17	27	0.6	1.5
1991	13	26	16	1.6	2.0
1992	11	0	17	0.0	0.0
1993	10	13	13	1.0	1.3
1994	4	0	6	0.0	0.0
1995	20	12	39	0.3	0.6
1996	12	14	16	0.9	1.2
1997	18	4	37	0.1	0.2
1998	45	14	84	0.2	0.3
1999	34	23	53	0.4	0.7
2000	65	35	183	0.2	0.5
2001	114	61	200	0.3	0.5
2002	59	50	155	0.3	0.8
2003	114	22	185	0.1	0.2
2004	61	23	139	0.2	0.4
2005	98	69	225	0.3	0.7
2006	61	52	168	0.3	0.9
2007	58	17	157	0.1	0.3
2008	61	57	163	0.3	0.9
2009	49	21	118	0.2	0.4
2010	95	32	229	0.1	0.3
2011	76	22	204	0.1	0.3
2012	84	149	303	0.5	1.8
2013	65	18	107	0.2	0.3
2014	76	71	189	0.4	0.9
2015	99	79	252	0.3	0.8
2016	106	35	234	0.1	0.3
2017	88	75	222	0.3	0.9
2018	120	60	516	0.1	0.5
Average (1982–2017)	48	31	108	0.4	0.8
% change from previous year	36	-20	132	-66	-41
% change from average	152	93	377	-73	-40

# WILD TURKEY





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

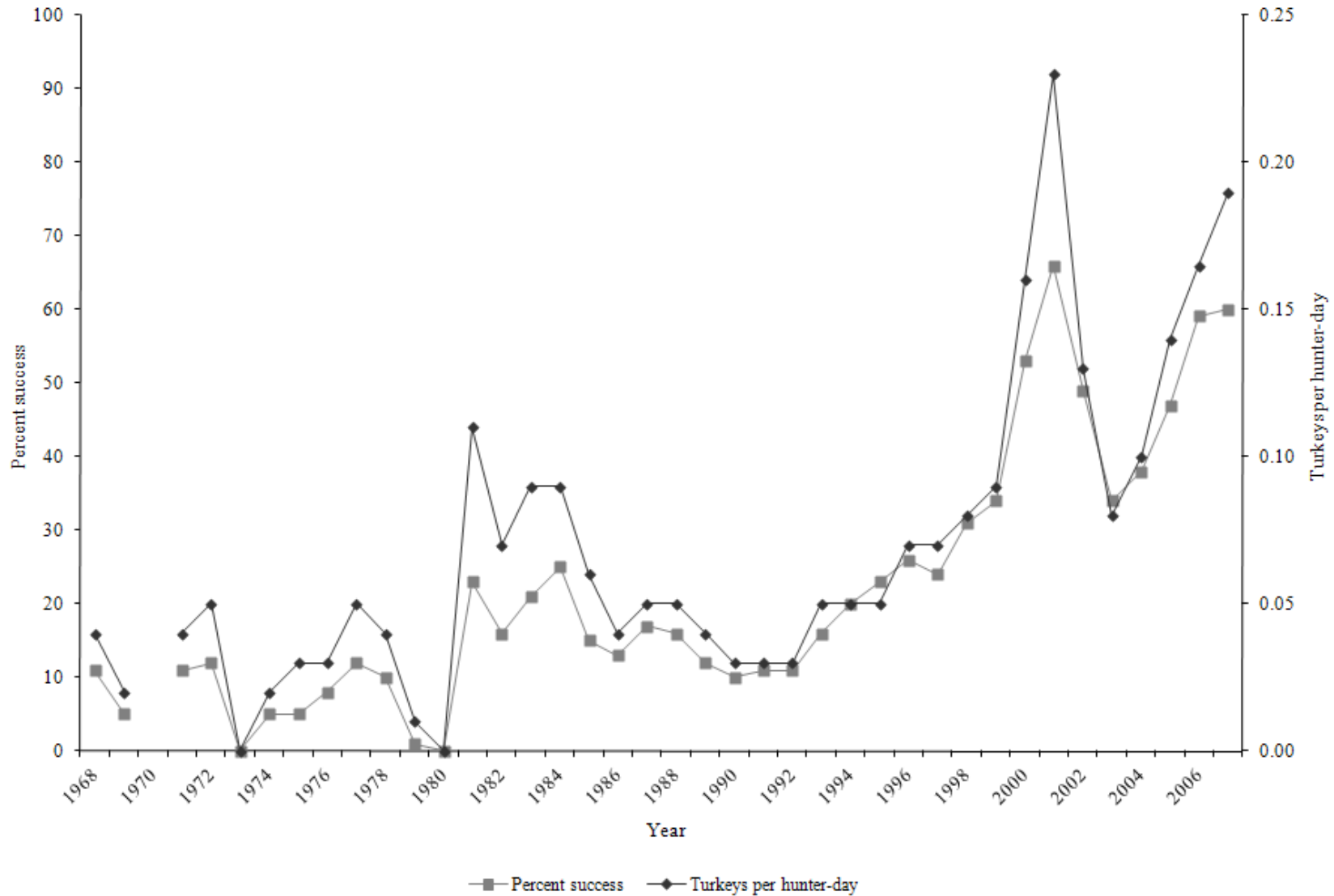


\*No spring season in 1970.

\*\*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.

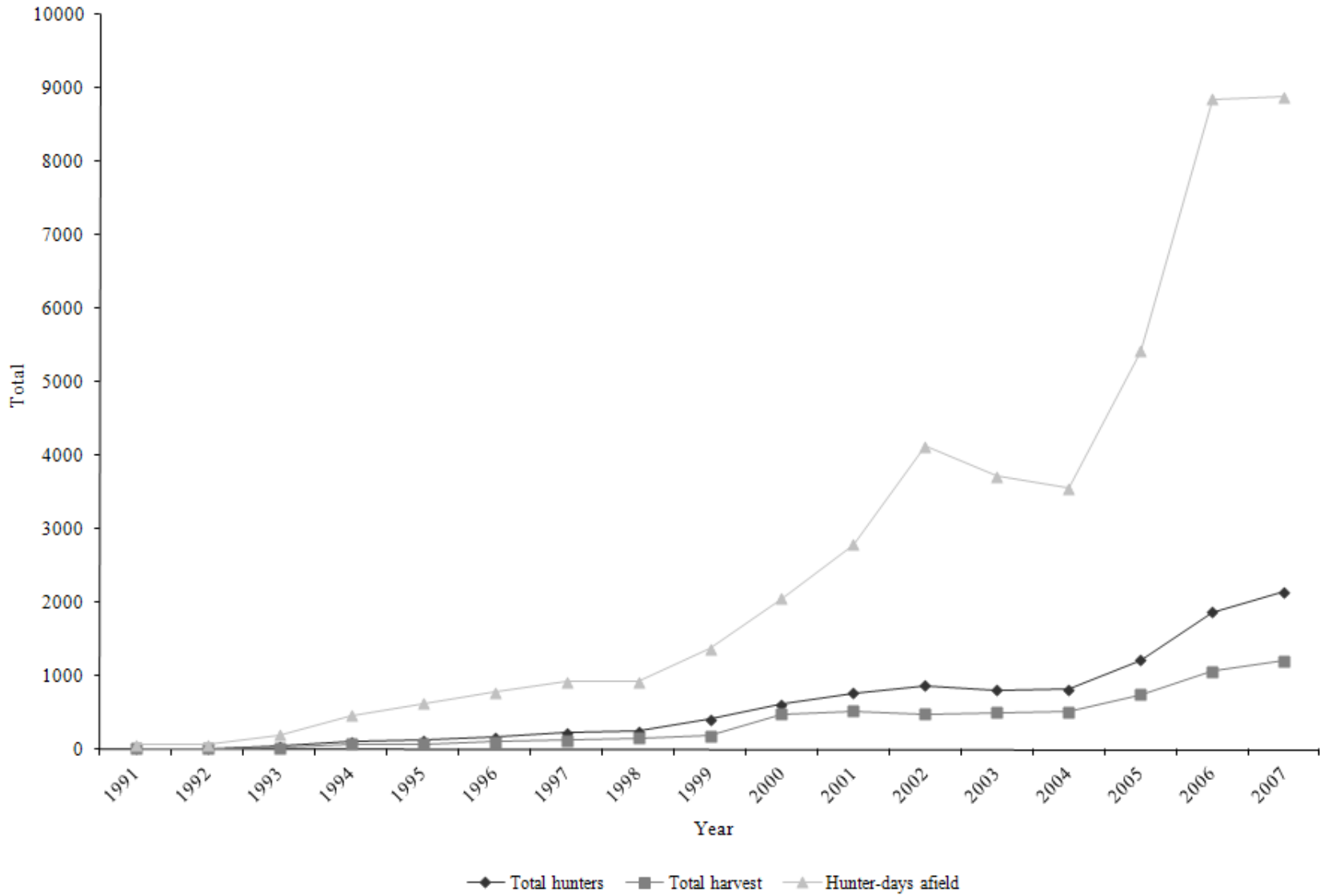
Statewide Merriam's wild turkey spring season harvest statistics, Utah 1968–2007 (continued).

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
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

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

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

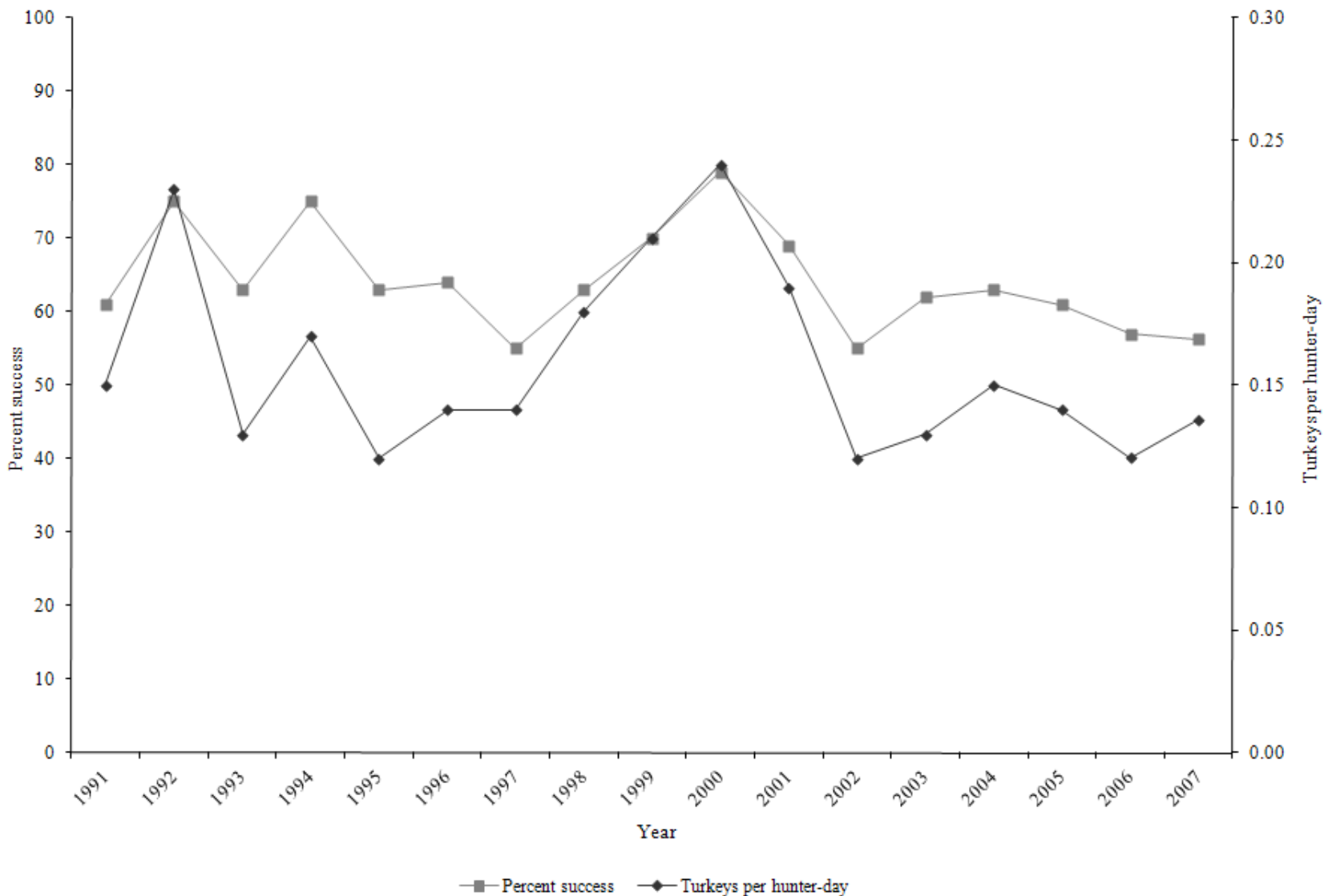
Statewide trends of spring Rio Grande wild turkey harvest statistics, Utah 1991–2007.



\*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.

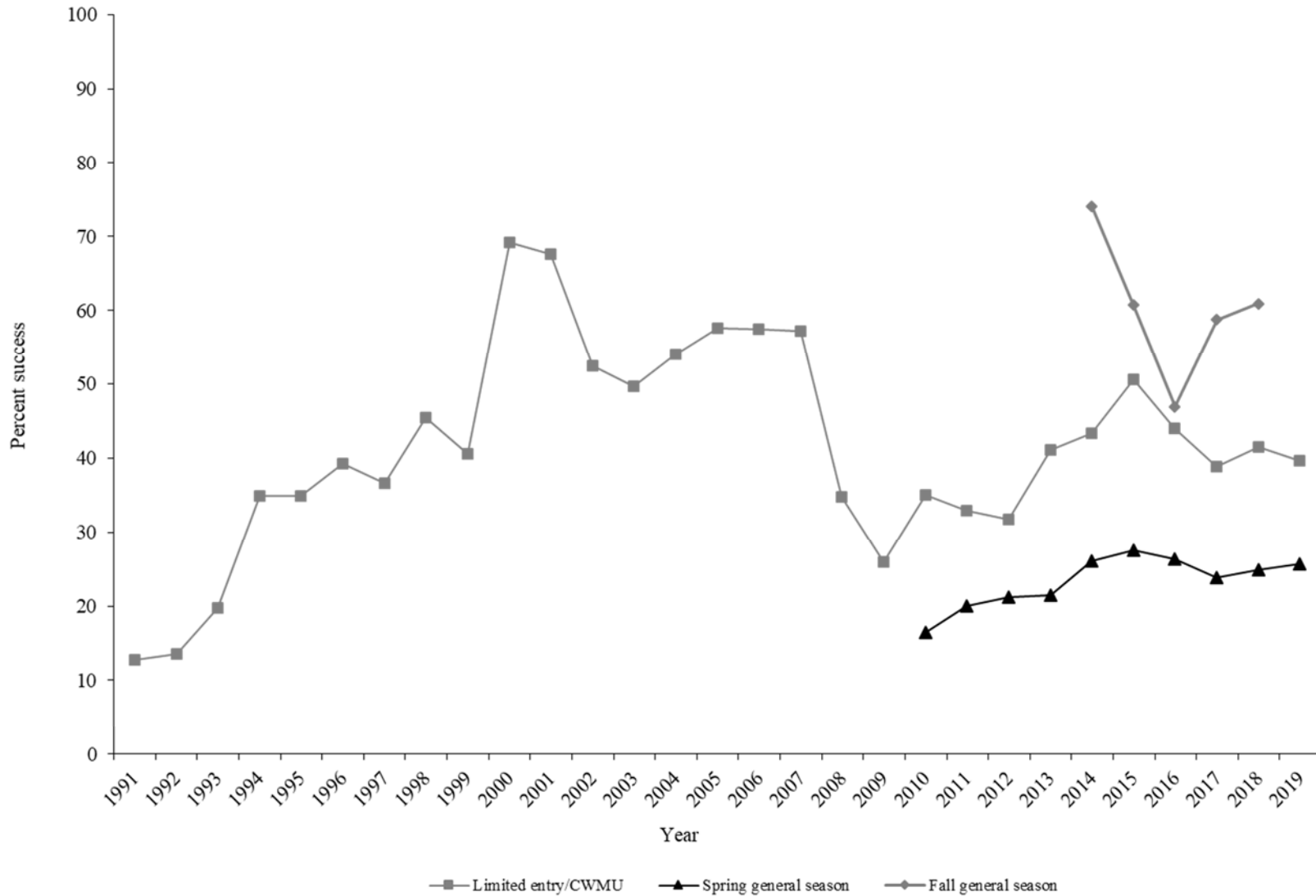
Statewide Rio Grande wild turkey harvest statistics, Utah 1991–2007.

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
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 limited entry/CWMU, spring general season, and fall general season wild turkey hunter success, Utah 1991–2019.



\*2002–2004 limited entry data does not include conservation permit information.  
 \*\*2005 limited entry data does not include conservation permit or landowner permit information.



Fall wild turkey harvest statistics by region and hunt area, Utah 2018.

Region and county	n**	Hunters afield	Male harvest	Female harvest	Unknown sex harvest	Total harvest	Mean days afield	Percent success
Northern Region								
Box Elder	84	330	102	59	4	165	4.3	50.0
Cache	274	1077	322	314	20	656	4.9	60.9
Davis	52	204	28	39	0	67	5.7	32.7
Duchesne	0	0	—	—	—	—	—	—
Morgan	69	271	71	94	0	165	5.8	60.9
Rich	4	16	0	8	0	8	6.8	50.0
Summit	18	71	20	8	4	31	3.7	44.4
Utah	1	4	0	0	0	0	1.0	0.0
Wasatch	5	20	0	8	0	8	4.0	40.0
Weber	75	295	86	59	0	145	4.0	49.3
Unknown	3	12	0	0	0	8	1.3	66.7
Regional total*	630	2044	633	593	28	1254	5.4	61.3
Central Region								
Juab	10	27	11	3	0	14	13.7	50.0
Salt Lake	3	8	3	0	0	3	1.3	33.3
Sanpete	23	63	22	11	3	36	3.1	56.5
Summit	2	5	0	0	0	0	3.0	0.0
Tooele	12	33	14	0	0	14	4.2	41.7
Utah	59	162	63	47	3	112	2.7	69.5
Wasatch	7	19	5	5	0	11	2.1	57.1
Weber	1	3	0	3	0	3	3.0	100.0
Unknown	4	11	0	0	0	0	6.0	0.0
Regional total*	142	293	118	68	5	192	5.3	65.4
Southern Region								
Beaver	4	15	0	0	0	0	2.5	0.0
Garfield	26	101	15	43	4	62	2.8	61.5
Iron	31	120	31	23	0	54	5.2	45.2
Juab	1	4	0	0	0	0	2.0	0.0
Kane	11	43	8	23	0	31	2.5	72.7
Millard	11	43	4	12	0	15	5.0	36.4
Piute	2	8	0	4	0	4	1.0	50.0
Sanpete	2	8	4	0	0	4	2.5	50.0
Sevier	1	4	0	0	0	0	2.0	0.0
Washington	26	101	31	15	0	46	3.5	46.2
Wayne	3	12	0	0	0	0	3.0	0.0
Unknown	0	0	—	—	—	—	—	—
Regional total*	135	398	93	120	4	217	4.2	54.4
Southeastern Region								
Regional total*	21	28	4	11	0	15	2.9	68.8

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

\*\*Total regional sample size includes those surveyed who did not hunt.

Total permits sold was 2476 for the northern region, 389 for the central region, 28 for the southeastern region, and 522 for the southern region.

Statewide fall wild turkey harvest statistics, Utah 2014–2018.

Year	Permits sold	Total hunters	Total harvest	Percent success
2014	314	281	208	74.0
2015	700	597	363	60.8
2016	1178	1750	822	47.0
2017	881	713	419	58.8
2018	3415	2756	1678	60.9
Average (1991–2017)	768	835	453	60.1
% change from previous year	3	6	9	3
% change from Average	288	287	300	3.6

\*Includes youth-only hunt.

Spring limited entry/CWMU wild turkey spring harvest statistics by hunt, Utah 2019.

Hunt number	Hunt name	Total permits	n	Hunters afield	Total harvest	Mean days afield public land	Mean days afield private land	Percent success
TK1003	Central region	246	141	213	119	2.6	0.8	56
TK1004	Northeastern region	244	138	182	88	2.3	1.3	49
TK1005	Northern region	397	169	312	139	2.3	1.7	44
TK1006	Southeastern region	279	149	219	99	2.6	1.8	45
TK1007	Southern region	1522	530	1218	402	2.8	0.9	33
TK1009	Folley Ridge CWMU	0	—	—	—	—	—	—
TK1018	Pahvant Ensign CWMU	22	10	20	11	—	3.1	56

Statewide limited-entry/CWMU wild turkey harvest statistics, Utah 1991–2019.

Year	Permits sold	Total hunters	Total harvest	Turkeys / hunter-day	Percent success
1991	607	550	70	0.0	12.7
1992	559	504	68	0.0	13.5
1993	542	507	100	0.1	19.7
1994	440	390	136	0.1	34.9
1995	470	410	143	0.1	34.9
1996	529	486	191	0.1	39.3
1997	602	568	208	0.1	36.6
1998	621	563	256	0.1	45.5
1999	753	740	300	0.1	40.5
2000	1062	1011	699	0.2	69.1
2001	1381	1317	891	0.2	67.7
2002*	1641	1498	785	0.1	52.4
2003	1528	1427	708	0.1	49.6
2004	1372	1279	691	0.1	54.0
2005**	1996	1656	953	0.1	57.5
2006	2664	2429	1396	0.1	57.5
2007	3017	2799	1600	0.1	57.2
2008	7858	6831	2374	0.1	34.8
2009	13608	11138	2770	0.0	26.0
2010	3055	2640	925	—	35.0
2011	3104	2629	865	—	32.9
2012	3035	2594	824	—	31.8
2013	3068	2566	1054	—	41.1
2014	3081	2661	1155	—	43.4
2015	3517	2918	1476	—	50.6
2016	4143	3602	1583	—	43.9
2017	4538	3991	1552	—	38.9
2018	3769	3105	1289	—	41.5
2019	2710	2164	858	—	39.6
Average (1991–2018)	2591	2243	895	8386	0.1
% change from previous year	-28	-30	-33	—	-4
% change from average	5	-4	-4	—	-5

\*2002–2004 do not include conservation permit information.

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

Spring youth\* general-season wild turkey harvest statistics by region and county, Utah 2019.

Region and county	n	Hunters afield	Total harvest	Mean public days-afield	Mean private days-afield	Percent success
Northern Region						
Box Elder	10	49	10	1.6	1.0	20.0
Cache	30	147	34	1.8	0.7	23.3
Davis	4	20	0	1.8	0.0	0.0
Morgan	7	34	10	0.7	1.1	28.6
Rich	0	0	—	—	—	—
Summit	1	5	0	0.0	3.0	0.0
Weber	10	49	29	1.5	0.4	60.0
Regional total	62	304	83	1.6	0.7	27.3
Central Region						
Juab	9	44	15	1.4	0.0	33.3
Salt Lake	6	29	10	1.5	0.0	33.3
Sanpete	10	49	20	1.4	0.6	40.0
Tooele	18	88	24	1.8	0.0	27.8
Utah	42	205	49	1.7	0.4	23.8
Wasatch	3	15	5	1.3	0.0	33.3
Regional total	88	430	123	1.7	0.2	28.6
Southern Region						
Beaver	6	29	5	2.8	0.5	16.7
Garfield	5	24	10	2.0	0.0	40.0
Iron	3	15	5	1.7	1.0	33.3
Kane	2	10	5	0.0	2.0	50.0
Millard	9	44	10	1.4	0.2	22.2
Piute	2	10	0	2.0	0.5	0.0
Sevier	11	54	10	2.1	0.3	18.2
Washington	13	64	29	1.2	0.7	46.2
Wayne	2	10	0	1.5	1.5	0.0
Regional total	53	260	74	1.7	0.5	28.5
Northeastern Region						
Daggett	1	5	0	3.0	3.0	0.0
Duchesne	9	44	5	1.0	1.2	11.1
Uintah	31	151	68	1.5	0.9	45.2
Regional total	41	200	73	1.4	1.1	36.5
Southeastern Region						
Carbon	3	15	0	2.0	1.0	0.0
Emery	8	39	20	2.1	0.8	50.0
Grand	2	10	10	1.5	0.0	100.0
San Juan	6	29	5	2.5	0.8	16.7
Regional total	19	93	35	2.2	0.7	37.6
Unknown	1	5	5	3.0	0.0	100.0
Statewide total**	359	1202	391	2.2	1.9	32.5

\*Youth who obtained a general-season wild turkey permit could participate in the Youth Turkey Hunt, which took place for 3 days prior to the regular general season.

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

Spring statewide general-season wild turkey harvest statistics by region and county, Utah 2019.

Region and county	n	Hunters afield	Total harvest	Mean public days-afield	Mean private days-afield	Percent success
Northern Region						
Box Elder	106	415	90	3.4	3.9	21.7
Cache	251	983	204	3.8	2.6	20.7
Davis	63	247	27	3.2	2.6	11.1
Morgan	81	317	78	3.6	3.5	24.7
Rich	5	20	4	4.2	0.0	20.0
Summit	47	184	35	3.3	2.7	19.1
Weber	120	470	118	4.2	3.0	25.0
Regional total	673	2636	556	3.7	3.0	21.1
Central Region						
Juab	73	286	43	4.0	1.7	15.1
Salt Lake	63	247	63	3.8	2.4	25.4
Sanpete	87	341	82	5.0	3.0	24.1
Tooele	141	552	59	4.6	3.1	10.6
Utah	334	1308	223	3.9	2.7	17.1
Wasatch	75	294	71	4.3	4.6	24.0
Regional total	773	3028	541	4.2	2.9	17.9
Southern Region						
Beaver	33	129	4	3.9	4.0	3.0
Garfield	96	376	118	5.5	2.9	31.3
Iron	137	537	110	4.7	3.9	20.4
Kane	266	1042	232	4.9	3.5	22.3
Millard						
Piute	46	180	20	3.8	1.3	10.9
Sevier	59	231	43	3.6	3.3	18.6
Washington	78	306	63	3.3	1.9	20.5
Wayne	35	137	20	2.2	2.6	14.3
Regional total	101	396	86	3.6	4.3	21.8
Northeastern Region						
Daggett	9	35	4	2.7	0.0	11.1
Duchesne	78	306	47	4.2	3.5	15.4
Uintah	111	435	82	3.7	3.3	18.9
Regional total	32	125	12	5.3	5.5	9.4
Regional total	549	2151	377	3.7	3.2	17.5
Southeastern Region						
Carbon	12	47	4	4.9	1.3	8.3
Emery	30	118	31	4.6	3.2	26.7
Grand	50	196	27	3.3	2.5	14.0
San Juan	62	243	39	4.2	3.0	16.1
Regional total	154	604	101	4.0	2.8	16.7
Unknown	28	110	12	3.5	0.0	10.7
Statewide total*	2445	8019	1818	4.7	3.4	22.7

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

Statewide general-season\* wild turkey harvest statistics, Utah 2010–2019.

Year	Permits sold	Total hunters	Total harvest	Percent success
2010	10118	8301	1363	16.4
2011	6528	5662	1136	20.1
2012	5275	4506	953	21.1
2013	6588	5788	1241	21.4
2014	7812	6734	1759	26.1
2015	8514	7314	2017	27.6
2016	8586	7522	1978	26.3
2017	8542	7075	1686	23.8
2018	9654	8157	2027	24.8
2019	9969	8619	2209	25.6
Average (1991–2018)	7957	6784	1573	23.1
% change from previous year	3	6	9	3
% change from average	25	27	40	11

\*Includes youth-only hunt.

## **APPENDIX A**

### **WEATHER CONDITIONS**

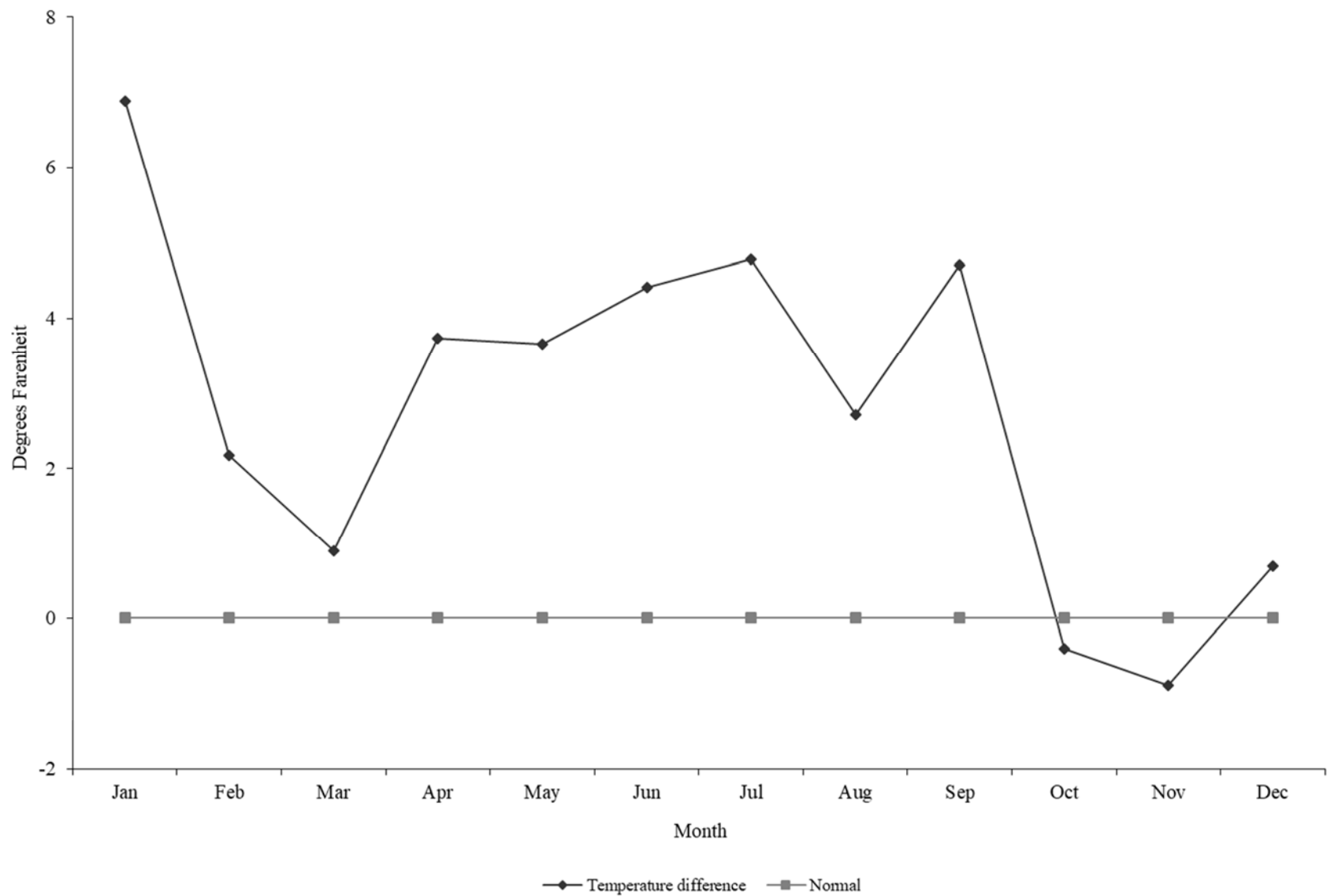
Weather data used in this report are from the NOAA periodical entitled “Climatological Data Annual Summary Utah 2018.”



Comparison of monthly average temperatures (°F) to normal temperature, by weather division, Utah 2018.

Weather Division	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>No.1 Western</b>													
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
2018	31.6	32.5	40.2	50.8	58.8	69.1	78.1	73.9	65.7	49.2	34.2	27.9	51.0
Departure	4.9	-0.1	-0.5	3.2	2.4	2.9	4.3	1.8	3.7	-0.4	-2.4	0.3	1.7
<b>No.2 Dixie</b>													
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
2018	46.7	45.7	51.8	62.9	70.2	81.4	87.4	84.4	77.7	61.0	47.4	41.8	63.2
Departure	7.3	1.2	1.7	6.0	4.3	5.5	5.8	4.6	5.4	0.3	0.2	2.1	3.7
<b>No.3 North Central</b>													
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
2018	33.4	33.6	40.1	50.1	59.8	69.6	78.4	73.7	66.9	50.2	35.7	28.0	51.6
Departure	6.9	2.0	-0.2	2.5	3.2	3.3	4.5	1.4	4.5	-0.2	-1.5	0.0	2.2
<b>No.4 South Central</b>													
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
2018	34.0	32.2	38.8	48.8	56.4	67.5	73.8	71.0	64.1	47.6	35.6	28.0	49.8
Departure	7.2	0.6	0.6	4.2	2.9	4.4	4.0	3.1	4.4	-0.7	-0.4	0.0	2.5
<b>No.5 Northern Mountains</b>													
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
2018	29.0	27.6	34.8	44.0	53.3	62.5	70.6	66.5	60.0	44.3	31.4	22.8	45.6
Departure	7.7	2.7	2.0	3.6	3.9	4.2	5.5	2.8	5.0	0.1	0.1	0.3	3.2
<b>No.6 Uintah Basin</b>													
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
2018	26.7	31.1	39.4	48.7	60.4	70.0	76.3	71.6	64.7	47.4	31.9	23.2	49.3
Departure	8.7	6.7	1.9	2.2	4.5	4.8	4.7	2.0	4.5	-0.4	-0.9	2.2	3.4
<b>No.7 Southeast</b>													
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
2018	33.5	36.8	43.9	55.1	64.5	76.3	81.2	77.7	70.8	51.5	37.8	29.8	54.9
Departure	5.5	2.1	0.8	4.4	4.4	5.8	4.7	3.3	5.4	-1.5	-1.3	0.0	2.8
<b>State averages</b>													
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
2018	33.6	34.2	41.3	51.5	60.5	70.9	78.0	74.1	67.1	50.2	36.3	28.8	52.2
Departure	6.9	2.2	0.9	3.7	3.7	4.4	4.8	2.7	4.7	-0.4	-0.9	0.7	2.8

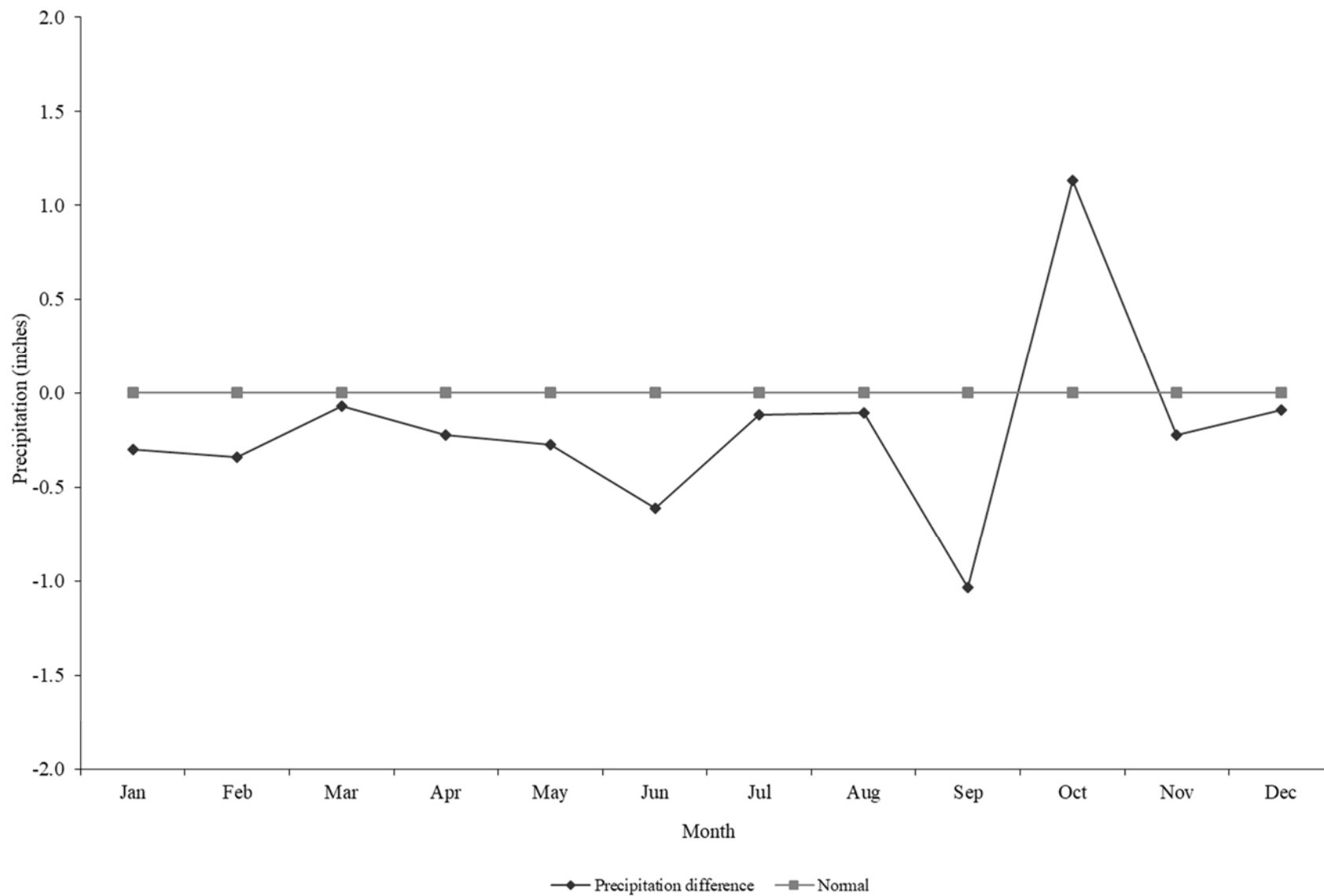
Temperature (°F) departure from normal, Utah 2018.



Comparison of monthly average precipitation (inches) to normal precipitation, by weather division, Utah 2018.

Weather Division	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>No.1 Western</b>													
Normal	0.6	0.7	0.9	0.9	1.1	0.6	0.7	0.8	0.8	1.0	0.7	0.5	9.2
2018	0.7	0.4	1.0	0.8	1.6	0.0	0.2	0.3	0.0	2.1	0.4	0.6	8.1
Departure	0.0	-0.2	0.1	-0.1	0.5	-0.6	-0.5	-0.5	-0.8	1.1	-0.2	0.1	-1.1
<b>No.2 Dixie</b>													
Normal	1.6	1.6	2.0	0.9	0.7	0.3	0.9	1.1	0.9	1.0	1.1	0.8	12.9
2018	1.6	1.0	1.1	0.5	0.4	0.0	1.9	1.8	0.0	1.7	0.6	1.1	11.7
Departure	0.0	-0.6	-0.8	-0.4	-0.3	-0.3	1.0	0.6	-0.9	0.7	-0.5	0.2	-1.1
<b>No.3 North Central</b>													
Normal	1.6	1.6	1.9	1.9	2.2	1.1	0.9	1.0	1.4	1.8	1.5	1.4	18.2
2018	1.1	1.1	2.4	1.9	1.7	0.1	0.2	0.6	0.0	2.5	1.5	1.2	14.2
Departure	-0.5	-0.5	0.5	0.0	-0.5	-1.0	-0.7	-0.4	-1.4	0.7	-0.1	-0.1	-4.0
<b>No.4 South Central</b>													
Normal	1.2	1.2	1.4	1.1	1.1	0.6	1.0	1.4	1.2	1.3	1.1	0.9	13.4
2018	0.9	0.7	1.3	0.7	0.8	0.0	1.5	1.2	0.1	2.8	0.8	0.7	11.5
Departure	-0.3	-0.5	-0.1	-0.4	-0.3	-0.6	0.5	-0.1	-1.1	1.5	-0.3	-0.1	-1.8
<b>No.5 Northern Mountains</b>													
Normal	2.0	1.9	2.0	1.9	2.0	1.1	1.1	1.2	1.6	1.9	1.9	1.7	20.1
2018	1.4	1.5	2.5	1.8	1.5	0.2	0.5	1.0	0.1	3.1	2.1	1.2	17.0
Departure	-0.6	-0.3	0.5	-0.1	-0.5	-0.9	-0.5	-0.2	-1.5	1.2	0.3	-0.5	-3.2
<b>No.6 Uintah Basin</b>													
Normal	0.5	0.5	0.6	0.8	1.0	0.6	0.7	0.8	0.9	1.1	0.5	0.4	8.5
2018	0.2	0.4	0.4	0.5	0.4	0.1	0.3	1.0	0.1	2.0	0.4	0.2	5.9
Departure	-0.3	-0.1	-0.2	-0.3	-0.6	-0.5	-0.5	0.2	-0.9	1.0	-0.1	-0.2	-2.6
<b>No.7 Southeast</b>													
Normal	0.8	0.7	0.9	0.7	0.8	0.4	0.9	1.0	1.0	1.3	0.8	0.6	9.8
2018	0.4	0.6	0.5	0.4	0.6	0.0	0.8	0.7	0.2	3.0	0.2	0.6	7.9
Departure	-0.4	-0.1	-0.4	-0.4	-0.2	-0.4	-0.1	-0.3	-0.8	1.8	-0.7	0.0	-1.9
<b>State averages</b>													
Normal	1.2	1.1	1.4	1.2	1.3	0.7	0.9	1.0	1.1	1.3	1.1	0.9	13.1
2018	0.9	0.8	1.3	0.9	1.0	0.1	0.8	0.9	0.1	2.5	0.9	0.8	10.9
Departure	-0.3	-0.3	-0.1	-0.2	-0.3	-0.6	-0.1	-0.1	-1.0	1.1	-0.2	-0.1	-2.3

Precipitation (inches) departure from normal, Utah 2018.



## **APPENDIX B**

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

General upland game harvest mail questionnaire returns, Utah 1962–63 to 2000–01.

Year	Questionnaires mailed	Total surveys returned	% returned	Total usable returns	% usable	% of license holders who did not hunt
1962–63	10068	4122	40.9	3433	34.1	22.0
1963–64	11058	5062	45.8	4325	39.1	21.0
1964–65	10718	4840	45.2	4180	39.0	23.0
1965–66	11917	6232	52.3	—	—	34.0
1966–67	13131	5734	43.7	5734	43.7	34.6
1967–68	12012	5764	48.0	5764	48.0	25.1
1968–69	14068	6138	43.6	6138	43.6	25.6
1969–70	15036	6429	42.8	6429	42.8	28.0
1970–71	14730	6639	45.1	6639	45.1	38.8
1971–72	15149	—	43.2	—	—	—
1972–73	15272	—	—	6399	41.9	—
1973–74	17572	—	—	7999	45.5	—
1974–75	27379	9157	33.4	8027	29.3	—
1975–76	26657	10880	40.8	9132	34.3	—
1976–77	21250	7889	37.1	6226	29.3	—
1977–78	20984	9329	44.5	8099	38.6	—
1978–79	24733	7575	30.6	6529	26.4	—
1979–80	27616	10498	38.0	9274	33.6	26.4
1980–81	27952	9857	35.3	8496	30.4	33.1
1981–82	13925	7941	57.0	6367	45.7	31.4
1982–83	22609	10167	45.0	8734	38.6	27.0
1983–84	23430	10324	44.1	9497	40.5	28.7
1984–85	12026	6455	53.7	6324	52.6	31.1
1985–86	10772	5904	54.8	5843	54.2	35.2
1986–87	11103	5329	48.0	5256	47.3	34.2
1987–88	10022	4294	42.8	4272	42.6	30.1
1988–89	15350	6650	43.3	6527	42.5	35.6
1989–90	12894	5135	39.8	5105	39.6	36.7
1990–91	12236	5264	43.0	5175	42.3	39.1
1991–92	15054	6419	42.6	6212	41.3	42.7
1992–93	16472	6207	37.7	5977	36.3	45.0
1993–94	16534	6293	38.1	5442	32.9	42.6
1994–95	15526	5433	35.0	5131	33.0	45.1
1995–96	14777	4951	33.5	4866	32.9	41.7
1996–97	14088	4090	29.0	4028	28.6	36.2
1997–98	13689	4488	32.8	4338	31.7	40.0
1998–99	14497	5536	38.2	3862	26.6	43.5
1999–00	14630	6082	41.6	5426	37.1	39.6
2000–01	14181	5020	35.4	4555	32.1	37.4

General upland game survey type and sample size, Utah 2001–02 to 2018–19.

Year	Survey type	Sample size	Total licenses	% of license holders who did not hunt
2001–02	Telephone	2500	83883	43.6
2002–03	Telephone	2501	79036	40.9
2003–04	Telephone	2500	77058	35.3
2004–05	Telephone	2500	77160	42.2
2005–06	Telephone	2500	76491	33.6
2006–07	Telephone	2501	82639	50.5
2007–08*	Telephone	4978	124349	75.5
2008–09	Web/Phone	14324	182846	76.7
2009–10	Web/Phone	12571	187925	81.8
2010–11	Web/Phone	14752	186163	80.9
2011–12	Web/Phone	16248	181590	84.2
2012–13	Web/Phone	17888	183275	83.7
2013–14	Web/Phone	19353	194042	83.9
2014–15	Web/Phone	16359	230826	86.1
2015–16	Web/Phone	22551	242740	83.0
2016–17	Web/Phone	14814	249679	82.8
2017–18	Web/Phone	19074	256736	84.7
2018–19	Web/Phone	17391	257312	93.2

\*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**



Cost of Utah hunting licenses/permits and total licenses/permits sold, Utah 2018–19.

License/permit type	Fee (dollars)	Licenses/permits sold
Resident 365-day hunting license (age 13 and under)	\$11	6949
Resident 365-day hunting license (ages 14–17)	\$16	976
Resident 365-day hunting license (age 65 and older)	\$25	830
Resident 365-day hunting license (ages 18–64)	\$34	5171
Resident multi-year hunting license (ages 18–64)	\$33 per year, up to five years	Included above
Resident 365-day combination license (ages 14–17)	\$20	15097
Resident 365-day combination license (age 65 and older)	\$29	16838
Resident 365-day combination license (ages 18–64)	\$38	157359
Resident multi-year combination license (ages 18–64)	\$37 per year, up to five years	Included above
Nonresident 3-day small game hunting license (any age)	\$32	488
Nonresident 365-day hunting license (age 17 and under)	\$25	978
Nonresident 365-day hunting license (age 18 and older)	\$65	24057
Nonresident multi-year hunting license (age 18 and older)	\$64 per year, up to five years	Included above
Nonresident 365-day combination license (age 17 and under)	\$29	758
Nonresident 365-day combination license (age 18 and older)	\$85	12147
Nonresident multi-year combination license (age 18 and older)	\$84 per year, up to five years	Included above
Resident lifetime hunting/fishing license*	—	4413
Resident Hunter Education completion license	—	11116
Nonresident Hunter Education completion license	—	135
Band-tailed pigeon permit	\$0	305
Greater sage-grouse permit	\$0	761
Sandhill crane permit	\$15	320
Sharp-tailed grouse permit	\$0	188
White-tailed ptarmigan permit	\$0	386
Resident wild turkey limited-entry permit	\$35	2648
Resident wild turkey general-season permit	\$35	7910
Resident wild turkey general-season permit (youth)	\$25	1754
Resident wild turkey CWMU permit	\$35	19
Nonresident wild turkey limited-entry permit	\$100	101
Nonresident wild turkey general-season permit	\$100	305
Nonresident wild turkey CWMU permit	\$100	3

\*No longer available for purchase.

## **APPENDIX D**

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

Upland game and turkey season dates, bag and possession limits, and areas open, Utah 2018–19 (2018–19 Utah Upland Game & Turkey Guidebook).

American crow

- Season dates: September 1–September 30, 2018 and December 1, 2018–February 28, 2019
- Areas open: Statewide.
- Bag limit: 10
- Possession limit: 30

Band-tailed pigeon

- Season dates: September 1–September 14, 2018
- Falconry season dates: September 1–December 16, 2018
- Areas open: Statewide.
- Bag limit: 2
- Possession limit: 6
- Notes: Requires a free permit in addition to your hunting license.

California and Gambel's quail

- Season dates: November 3–December 31, 2018
- Youth hunt: October 13–October 15, 2018
- Areas open: Statewide.
- Bag limit: 5
- Possession limit: 15
- Notes: Limits singly or in combination.

Chukar partridge

- Season dates: September 29, 2018–February 15, 2019
- Youth hunt: September 22–September 24, 2018
- Areas open: Statewide.
- Bag limit: 5
- Possession limit: 15
- Notes: Antelope Island is closed to all upland game hunting.

Collared-dove (Eurasian and African)

- Season dates: Year round
- Areas open: Statewide.
- Bag limit: No limit
- Possession limit: No limit
- Notes: Collared-doves may be hunted without a license, year round. Collared-doves taken during the dove season will not count as part of the combined dove bag and possession limits if they remain unplucked during transport.

Upland game and turkey season dates, bag and possession limits, and areas open, Utah 2018–19 (continued).

Cottontail rabbit (desert and mountain)

- Season dates: September 1, 2018–February 28, 2019
- Areas open: Statewide.
- Bag limit: 10
- Possession limit: 30

Dusky and ruffed grouse

- Season dates: September 1–December 31, 2018
- Areas open: Statewide.
- Bag limit: 4
- Possession limit: 12
- Notes: Limits singly or in combination.

Gray (Hungarian) partridge

- Season dates: September 30, 2017–February 15, 2018
- Youth hunt: September 23–September 25, 2017
- Areas open: Statewide.
- Bag limit: 5
- Possession limit: 15

Greater sage-grouse

- Season dates: September 29–October 21, 2018
- Areas open: Diamond, Blue Mountain (SG1000); Parker Mountain (SG1001); Rich County (SG1002) and West Box Elder County (SG1003)
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Notes: Greater sage-grouse permit required.
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Jackrabbit (black-tailed and white-tailed)

- Season dates: Year round
- Areas open: Statewide.
- Bag limit: No limit
- Possession limit: No limit
- Notes: May be hunted without a license.

Upland game and turkey season dates, bag and possession limits, and areas open, Utah 2018–19 (continued).

#### Mourning dove and white-winged dove

- Season dates: September 1–October 30, 2018
- Falconry season dates: September 1–December 16, 2018
- Areas open: Statewide.
- Bag limit: 15
- Possession limit: 45
- Falconry bag limit: 3
- Falconry possession limit: 9
- Notes: Limits singly or in combination. Collared-doves should remain fully feathered so they can be distinguished from mourning and white-winged doves.

#### Ring-necked pheasant (General season)

- Season dates: November 3–December 2, 2018
- Youth hunt: October 13–October 15, 2018
- Areas open: Statewide.
- Bag limit: 2 male birds
- Possession limit: 6 male birds
- Notes: Only males may be harvested. The Goshen Warm Springs WMA in Utah County is closed to all hunting.

#### Scaled quail

- Season dates and bag limit: Closed statewide

#### Sandhill crane (multiple counties)

- Season dates: September 1–9, 2018
- Areas open: East Box Elder County (SC1000), Cache County (SC1001) and Rich County (SC1002)
- Possession limit: Only 1 bird of either sex may be taken during the entire season.
- Notes: 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.

#### Sandhill crane (Uintah County)

- Season dates: September 29–October 18, 2018 (early), October 19–November 7, 2018 (middle), and November 8–27, 2018 (late)
- Areas open: Uintah County. There are three hunts: early (SC1003), middle (SC1004), and late (SC1005).
- Possession limit: Only 1 bird of either sex may be taken during the entire season.
- Notes: Sandhill crane permit required.

Upland game and turkey season dates, bag and possession limits, and areas open, Utah 2018–19 (continued).

#### Sharp-tailed grouse

- Season dates: September 29–October 21, 2018
- Areas open: Northeast Box Elder County (ST1000) and Cache County (ST1001)
- Possession limit: Only 2 birds of either sex may be taken during the entire season.
- Notes: 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.

#### Snowshoe hare

- Season dates: September 1, 2018–March 15, 2019
- Areas open: Statewide.
- Bag limit: 5
- Possession limit: 15

#### White-tailed ptarmigan

- Season dates: August 25–October 31, 2018
- Areas open: Statewide.
- Bag limit: 4
- Possession limit: 12
- Notes: Requires a free permit in addition to a hunting license.

#### Wild turkey (Fall general-season hunts)

- Season dates: October 1, 2018–February 18, 2019 (Northern), November 1, 2018–February 28, 2019 (Central and Southern), and November 1, 2018–January 14, 2019 (Southeastern)
- Areas open: Select areas within the Northern Region and within the Southern Region. Some of these hunts are comprised of all or largely private property.
- Bag limit: 1 turkey of either sex
- Possession limit: 1 turkey of either sex
- Notes: Permits for the fall 2018 general-season hunts will be sold at *wildlife.utah.gov* and from license agents and Division offices.

Upland game and turkey season dates, bag and possession limits, and areas open, Utah 2018–19 (continued).

Wild turkey (Limited-entry hunts)

- Season dates: April 13–April 25, 2019
- Areas open: Central (TK1003), Northeastern (TK1004), Northern (TK1005), Southeastern (TK1006), and Southern (TK1007) regions.
- Bag limit: 1 bearded turkey
- Possession limit: 1 bearded turkey
- Notes: The limited-entry hunt requires a permit distributed through Utah’s turkey drawing. If you are a youth with a limited-entry permit and you don’t harvest during the limited-entry season, you may continue to hunt during the youth hunt and the spring general-season hunt.

Wild turkey (Spring general-season hunt)

- Season dates: April 29–May 31, 2019
- Youth hunt: April 26–April 28, 2019
- Areas open: Statewide.
- Bag limit: 1 bearded turkey
- Possession limit: 1 bearded turkey
- Notes: Spring general-season permits may be purchase over the counter.

Wild turkey (CWMU hunts)

- Season dates: The CWMU operator establishes the number of hunting days within the timeframe established by the Utah Wildlife Board for turkey hunting on CWMUs, April 13–May 31, 2019.
- Areas open: Folley Ridge (TK1009) and Pahvant Ensign (TK1018).
- Bag limit: 1 bearded turkey
- Possession limit: 1 bearded turkey
- Notes: The CWMU hunt requires a permit distributed through Utah’s turkey drawing.